

# Dell EMC PowerStore

## REST API Developers Guide

## Notes, cautions, and warnings

 **NOTE:** A NOTE indicates important information that helps you make better use of your product.

 **CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

 **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.

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# Additional Resources

As part of an improvement effort, revisions of the software and hardware are periodically released. Some functions that are described in this document are not supported by all versions of the software or hardware currently in use. The product release notes provide the most up-to-date information about product features. Contact your technical support professional if a product does not function properly or does not function as described in this document.

## Where to get help

Support, product, and licensing information can be obtained as follows:

- **Product information**

For product and feature documentation or release notes, go to the PowerStore Documentation page at [www.dell.com/powerstoredocs](http://www.dell.com/powerstoredocs).

- **Troubleshooting**

For information about products, software updates, licensing, and service, go to [www.dell.com/support](http://www.dell.com/support) and locate the appropriate product support page.

- **Technical support**

For technical support and service requests, go to [www.dell.com/support](http://www.dell.com/support) and locate the **Service Requests** page. To open a service request, you must have a valid support agreement. Contact your Sales Representative for details about obtaining a valid support agreement or to answer any questions about your account.

# Overview

## The PowerStore Management REST API

The PowerStore Management REST API is a set of resources (objects), operations, and attributes that provide interactive, scripted, and programmatic management control of the PowerStore cluster. Here are some examples of what you can do with the REST API:

- Provision new cluster components, such as appliances and volumes.
- Configure replication destinations and sessions, and rules.
- Fail over and fail back an appliance.
- Create snapshots for backup purposes.
- Gather metrics to use for historical analysis.
- Gather configuration information and logs to use for auditing and trending analysis.

For more information about PowerStore Management REST API functionality, see [Reference content](#) on page 41. Reference materials are also available on the appliance in several formats:

- Swagger UI—<https://<cluster management ip address>/swaggerui>
- JSON—<https://<cluster management ip address>/api/rest/openapi.json>

The REST API uses a Representational State Transfer (REST) architecture style to expose data. Using a REST API provides the following advantages:

- Presents a single, consistent interface for managing PowerStore clusters.
- Requires no additional tools, other than standard web browsers or command-line HTTP tools, such as wGET and cURL. For complex interactions, clients can use any procedural programming language, such as C++ or Java, or scripting language, such as Perl or Python, to make calls to the REST API.
- Uses well-known HTTP conventions in a standard manner to interact with the appliance.
- Is easy to transport in the network. REST API traffic looks and acts like standard HTTP network traffic, and requires no special ports open in the firewall or special settings in the switches.

The REST API connection is secured with SSL. The same authentication is used for the REST API and GUI.

## Resource-oriented architecture and REST

REST is a client/server architectural style that uses the HTTP protocol in a simple, effective, way. REST is based on the following principles:

- Application state and functionality are organized into resources. Resources represent physical things, such as a specific appliance. Resources also represent logical things, such as a specific alert, or collections of entities, such as the volumes or virtual disks in the system.
- Each resource has a unique Universal Resource Identifier (URI), and each resource instance has a unique ID. For example, you can identify the alert collection with this path component: `/api/rest/alert`, and you can identify the alert instance that has an ID of `00c0d863-8a13-4e98-ba06-c4c3f6da615f` with this URI: `/api/rest/alert/00c0d863-8a13-4e98-ba06-c4c3f6da615f`.
- Resources share a uniform interface between the client and server through standard HTTP protocol operations. The PowerStore Management REST API uses the HTTP `GET` operation to retrieve data about a resource collection or resource instance, `PATCH` to modify a resource instance, `POST` to create a resource instance, and `DELETE` to delete a resource instance. The REST API also uses `POST` for a limited set of other operations to implement resource-specific actions. Thus, an application can interact with a resource by knowing the URI pattern, resource identifier, and action required.
- Communication between the client and server occurs through HTTP requests and responses. In the PowerStore Management REST API, requests and responses represent resource data using JavaScript Object Notation (JSON).
- Each request is stateless, which means that the server does not store application state information. Instead, client requests contain all the necessary information to service the request.
- Resources in a REST API are self-documenting. A response from the server contains information about the requested resource in the form of attribute names and values.

# JSON data exchange format

JavaScript Object Notation (JSON) is a text-based, platform-independent data-exchange format that is easy for humans and machines to read and write. It consists of two structures:

- A set of name:value pairs enclosed by curly brackets.
- A list of values enclosed by square brackets. This structure is used when the value in a name:value pair is an array.

The value in a name can be a simple value, such as a string or a number, or it can be either of the structures above (a list of name:value pairs in curly brackets, or a list of values in square brackets).

The following example shows part of a response body for a `GET dns` collection request in JSON format. In this content, the value for the `addresses` attribute is a list structure:

```
[
  {
    "id": "DNS1",
    "addresses":
      [
        "10.244.53.108",
        "10.244.53.109"
      ]
  }
]
```

For more information about JSON, see [json.org](https://www.json.org).

# REST request components

## HTTP request headers

The following table describes the HTTP request headers used by the PowerStore Management REST API. The API uses these headers in standard ways.

HTTP header	Value	Description
Accept:	application/json	Format of the body content desired in the response. All requests use <code>Accept: application/json</code> , which is the default and only value accepted.
Content-Type:	application/json	Body content type of the request. This is optional because it is the default and only supported value.
Accept-Language:	en-US	Requested locale will be mapped to an available language. Only <code>en-US</code> is supported.
DELL-EMC-TOKEN:	Valid CSRF token value from authenticated GET request	Before issuing any REST call which changes the state of the object (such as <code>POST</code> , <code>PATCH</code> or <code>DELETE</code> ) send a <code>GET</code> request to receive a CSRF token as response header named <code>DELL-EMC-TOKEN</code> . Use the value of token from the response header obtained from the <code>GET</code> call as a Header value in the subsequent calls for this session.
Range:	<first>-<last>	For <code>GET</code> calls only. Part of paging support. Requests rows first through last (optional) of the result set.

## URI patterns

### Basic URI patterns

The following table describes the basic URI patterns that the PowerStore Management REST API supports:


**Table 1. Basic patterns in the REST API**

URI pattern	HTTP Operations	Description
Collection type resource URI <code>/api/rest/&lt;resource_type&gt;</code>	GET	Retrieves a list of instances for the specified resource type.
	POST	Creates a new instance of the specified resource type, using data specified in the request body, if allowed.
Instance resource URI <code>/api/rest/&lt;resource_type&gt;/&lt;id&gt;</code>	GET	Retrieves the specified resource instance.
	PATCH	Modifies the specified resource instance, if allowed.
	DELETE	Deletes the specified resource instance, if allowed.



**Table 1. Basic patterns in the REST API(continued)**

URI pattern	HTTP Operations	Description
Instance action URI /api/rest/<resourceType>/<id>/<action>	POST	Performs the operation specified by <action> for the specified resource instance.
Class-level action URI /api/rest/<resource_type>/<action>	POST	Performs the operation specified by <action> for the specified non-singleton resource type.

 **NOTE:** URI parameters cannot contain slashes (/) or other special characters.

## Examples

### Retrieving all instances of the storage\_container resource type

```
GET /api/rest/storage_container
```

### Retrieving storage\_container instance 70b37e07-b7fb-4e69-83ea-928680c4dc31

```
GET api/rest/storage_container/70b37e07-b7fb-4e69-83ea-928680c4dc31
```

### Creating a new storage container instance

```
POST /api/rest/storage_container
```

### Deleting storage container instance 70b37e07-b7fb-4e69-83ea-928680c4dc31

```
DELETE /api/rest/storage_container/70b37e07-b7fb-4e69-83ea-928680c4dc31
```

### Modifying storage container instance 70b37e07-b7fb-4e69-83ea-928680c4dc31

```
PATCH /api/rest/storage_container/70b37e07-b7fb-4e69-83ea-928680c4dc31
```

### Mounting storage container instance 70b37e07-b7fb-4e69-83ea-928680c4dc31

```
POST /api/rest/storage_container/70b37e07-b7fb-4e69-83ea-928680c4dc31/mount
```

### Exchanging SSL certificates with another PowerStore appliance

```
POST /api/rest/x509_certificate/exchange
```

## Request parameters

The PowerStore Management REST API supports the following request parameters:

Request parameter	Applicable request types	Description
select	Collection and instance queries	Specifies a comma-separated list of attributes to return in a response. If you do not use this parameter, a query returns the id attribute only.  For more information, see <a href="#">Specifying the attributes to return in a query response</a> on page 25.
<filter expression>	Collection queries	Filters the response data against a set of criteria. Only matching resource instances are returned. Filtering is case insensitive.  For more information, see <a href="#">Filtering response data</a> on page 26.

Request parameter	Applicable request types	Description
order	Collection queries	Specifies how to sort response data. You can sort response data in ascending or descending order based on one of the following: <ul style="list-style-type: none"> <li>The attributes of the queried resource type.</li> <li>The attributes of a resource type that is embedded in the primary resource type or related through a foreign key.</li> <li>A computed attribute.</li> </ul> For more information, see <a href="#">Sorting response data</a> on page 28.
async	Most non-GET requests	Setting this parameter to true ( <code>?async=true</code> ) runs the request in the background. Most active management requests (ones that attempt to change the configuration) support this option. By default, requests are run synchronously. <p>For more information, see <a href="#">Working with asynchronous requests</a> on page 39.</p>

To use request parameters, append the parameters to the request URI. The first request parameter appended to the URI begins with a `?` character. Subsequent request parameters appended to the URI begin with a `&` character. You can combine request parameters and can use them in any order.

## Examples

### Using the `select` request parameter

The following request uses a `select` request parameter to return the values for the `id`, `severity`, and `description` attributes for all alert instances.

Request	GET <code>https://1.2.3.4/api/rest/alert?select=id,severity,description_l10n</code>
Response	<pre>[   {     "id":"014f999e-96d8-4f85-853c-c6a0e2569088",     "severity":"Minor",     "description_l10n":"Cluster license installation failed due to Fail to obtain license file. The trial period will expire on 2019-11-27 18:47:26.985, after which no new storage provisioning will be allowed."   },   {     "id":"2d3cc48d-0296-4d15-afb9-252061cf7df9",     "severity":"Minor",     "description_l10n":"Bus 0 enclosure 0 LCCA is initializing."   },   {     "id":"37583ff1-b0fe-41f2-9b3d-e5e5d2e5e525",     "severity":"Info",     "description_l10n":"The remote system &lt;undefined&gt; volume discovery or refresh has failed."   },   .   .   . ]</pre>

### Using a filter expression

The following request uses a filter expression to return the values for alert instances that have the `severity` attribute set to **Info**:

Request	GET <code>https://1.2.3.4/api/rest/alert?select=id,severity&amp;severity=eq.Info</code>
---------	---

Response	<pre>[   {     "id": "37583ff1-b0fe-41f2-9b3d-e5e5d2e5e525",     "severity": "Info"   },   {     "id": "63d21fb9-897d-4d07-983f-0478436755b6",     "severity": "Info"   },   {     "id": "ab9175c4-1ded-473e-b22d-63ac1154937f",     "severity": "Info"   } ] . . .</pre>
----------	---

### Using the order request parameter

The following request uses an order expression to sort alert instances by severity:

Request	GET https://1.2.3.4/api/rest/alert?select=id,severity&order=severity
Response	<pre>[   {     "id": "37583ff1-b0fe-41f2-9b3d-e5e5d2e5e525",     "severity": "Info"   },   {     "id": "63d21fb9-897d-4d07-983f-0478436755b6",     "severity": "Info"   },   {     "id": "ab9175c4-1ded-473e-b22d-63ac1154937f",     "severity": "Info"   },   {     "id": "014f999e-96d8-4f85-853c-c6a0e2569088",     "severity": "Minor"   },   {     "id": "2d3cc48d-0296-4d15-afb9-252061cf7df9",     "severity": "Minor"   },   {   } ]</pre>

### Using the is\_async request parameter

The following asynchronous request deletes a local\_user instance. The request returns the job ID:

Request	DELETE https://1.2.3.4/api/rest/local_user/4?is_async=true
Response	<pre>{   "id": "1ed0d49e-101b-4b8a-85dc-886f907e8070" }</pre>

## REST requests

A JSON request body for the REST API consists of a collection of name:value pairs for a single resource type. The request body has the following syntax:

- For number or boolean values:

```
{
  <attributeName1>:<value1>,
  <attributeName2>:<value2>,
  .
  .
}
```

- For IP, string, or datetime values:

```
{
  <attributeName1>:"<value1>",
  <attributeName2>:"<value2>",
  .
  .
}
```

For example, the request body for a create request for the `local_user` resource type could contain the following values:

```
{
  "name": "user1",
  "password": "myPassword"
  "role_id": "operator"
}
```

# REST responses

## Response components

Each response to a REST API request consists of a response header, HTTP status code (in the response header), and JSON response body, if applicable:

- The response header contains metadata about the response being sent.
- The HTTP status code in the response header indicates whether a request is successful or unsuccessful.
  - An HTTP status code in the 2xx family, such as 200 `OK` or 201 `Created`, indicates a correctly processed request.
  - An HTTP status code in the 4xx family indicates an error in the request. For example, a 400 status code indicates a badly formed request, and a 401 status code indicates an authorization error.
  - An HTTP status code in the 5xx family indicates a server failure. For example a 500 status code indicates an internal server error, and a 503 status code indicates that the REST service is temporarily unavailable.
- The JSON response body varies according to the request type and whether a request was successful. For example, a collection response body is returned in response to a successful `GET` collection request, and an instance response body is returned in response to an instance request.

## HTTP response headers

A response from the REST API always includes HTTP response headers that contain metadata about the response being sent. The following HTTP headers appear in every REST API response:

**Table 2. HTTP response headers in the REST API**

HTTP header	Description
Content-Type	This header is set to <code>application/json</code> , although it can be <code>application/zip</code> , <code>document/text</code> , or <code>application/binary</code> .
Content-Length	This header refers to the byte length of the HTTP body.
Set-Cookie	The login session ticket ( <code>auth_cookie</code> ) is returned in the first request of the session and required for all subsequent requests, unless you pass the user ID and password with each request. Because the API uses cookie-based authentication, the HTTP client must support cookies in order to use the API.  For more information, see <a href="#">Connecting and authenticating</a> .
DELL-EMC-TOKEN	Before issuing any REST call which changes the state of the object (such as <code>POST</code> , <code>PATCH</code> or <code>DELETE</code> ) send a <code>GET</code> request to receive a CSRF token as response header named <code>DELL-EMC-TOKEN</code> . Use the value of token from the response header obtained from the <code>GET</code> call as a Header value in the subsequent calls for this session.
Content-Range	Paginated responses contain this header, which indicates how many instances were successful and how many were returned.

## HTTP status codes

Every response to a REST API request includes an HTTP status code, which indicates whether the request was successful. If requests are unsuccessful (that is, if they return 4xx and 5xx HTTP status codes) the system returns a message entity that describes the problem.

The following table describes the HTTP status codes that apply to the REST API:

**Table 3. HTTP status codes in the REST API**

Status code	Name	Applies to	Description
200	OK	All of the following: <ul style="list-style-type: none"> <li>GET requests</li> <li>Action PATCH requests with output data</li> <li>Action POST requests with output data</li> </ul>	Successful request. For a GET request, the response body contains the requested resource. For an action POST and PATCH request, the response body contains the output arguments.
201	Created	POST requests for creating resources	Successful request. The response body contains the id attribute only.
202	Accepted	Asynchronous POST, PATCH, and DELETE requests	Request is in process. The response body is the ID of the job resource instance executing the request.
204	No Content	Non-GET requests.	Successful request. There is no body content in the response.
206	Partial Content	GET requests	Successful request. The response body contains a partial response. Used for pagination of a long response.
400	Bad Request	All requests	Problem with request intercepted before execution. The system detected a problem with the request and did not proceed. The request may have a badly formed URI or badly formed parameters, headers, or body content.
401	Unauthorized	All requests	Authentication error. The username and password combination or the auth-cookie sent with the request are not valid.
403	Forbidden	All requests	Authorization error. The role of the authenticated user does not have the privilege required to perform the requested operation.
404	Not Found	All requests	Resource does not exist. This can be caused by an invalid ID in an instance URI.
405	Method Not Allowed	All requests	Specified resource does not support the request's operation. For example, requesting a DELETE on a hardware resource can cause this error.
416	Range Not Satisfiable	GET requests	The specified range of items is invalid. The value of the Range header or the URL parameters limit or offset, or both, are invalid.
422	Unprocessable Entity	Non-GET requests	Error during execution of the request. The response body contains an error message that describes the problem with the request.

**Table 3. HTTP status codes in the REST API(continued)**

Status code	Name	Applies to	Description
			Example causes: <ul style="list-style-type: none"> <li>• The system is out of space.</li> <li>• A range error occurred.</li> <li>• There are inconsistent properties on a <code>POST</code> or <code>PATCH</code></li> </ul>
500	Internal Server Error	All requests	Internal error.
503	Service Unavailable	All requests	The REST service is temporarily unavailable. Wait and try the request again.

## JSON collection response body

A JSON collection response body occurs in response to a `GET` collection request that results in a `200 OK` or a `206 Partial Content` HTTP status code. For collections with fewer than 100 elements, the response body for a collection contains the identifier for all instances in the resource type collection. The response is a JSON array of zero or more instances. Each instance in the response has one or more attribute name-value pairs. The returned name-value pairs are determined by the `select` URI parameter, which defaults to the `id` attribute. You can specify which attributes to return for each instance by using the `select` query parameter. You can specify which instances are returned by filtering the data using an attribute expression as a query parameter.

## Example

### GET collection response for an event

The following example illustrates the components of a collection resource. It shows a collection resource returned in response to a `GET` collection request for the `event` resource type. In this example, the query returns the `id` and `severity` of each event in the appliance. Spaces outside the quoted strings are used for readability, and are not significant.

Request	<code>GET https://1.2.3.4/api/rest/event?select=id,severity</code>
Response	List of all instances in the specified collection that meet the request criteria. The response includes attribute values as a set of name:value pairs for each returned instance: <pre>[   {     "id": "0a739865-a233-4ef0-ae20-6ed014ad06fe",     "severity": "Minor"   },   {     "id": "51c0db9e-1d2b-4289-97b7-f361d67f7807",     "severity": "Minor"   },   .   .   . ]</pre>

## JSON instance response body

A JSON instance response occurs in response to a `GET` instance request that results in a `200 Success` HTTP status code. By default, this response body contains only the identifier of the requested resource instance. Use the `select` request parameter to specify the additional attribute values to return.

## Example

### GET instance response for an event

The following example illustrates an instance resource. It shows an instance resource returned in response to a GET instance request for the `event` resource type with an identifier of `299a2f56-fea7-4e85-af0d-992294526911`. Spaces outside the quoted strings are used for readability, and are not significant.

Request	<pre>GET https://1.2.3.4/api/rest/event/299a2f56-fea7-4e85-af0d-992294526911? select=id,severity</pre>
Response	<pre>{   "id": "299a2f56-fea7-4e85-af0d-992294526911",   "severity": "Info" }</pre>

## JSON create response body

A JSON create response body occurs in response to a POST operation for create that results in a `201 Created` HTTP return code. This response body contains the `id` attribute for the new resource.

## Example

### Create response for a local\_user

The following examples illustrate the components of a minimal instance resource. It shows a minimal instance resource returned in response to a successful POST request for creating a new `local_user` resource. The request body contains the arguments used to populate the new resource.

Request	<pre>POST https://1.2.3.4/api/rest/local_user</pre>
Request body	<pre>{   "name": "User1",   "password": "myPassword",   "role_id": "1" }</pre>
Response	<pre>{   "id": "4" }</pre>

## Response with no body

A response with no body occurs in response to a DELETE request that results in a `204 No Content` status code. In this circumstance, response headers are returned with the empty response body. A response with no body also occurs in response to an action POST request that does not have output data. This response with no body also occurs in response to a successful synchronous DELETE instance request that does not have output data and that results in a `204 No Content` status code.

## JSON job response body

A JSON response body occurs in response to an asynchronous request that results in a `202 Accepted` HTTP return code. This response body contains the job id. You can query the `job` resource instance to find out whether the job completed and to get the response to the asynchronous request. For a description of the `job` resource type, see the job topic in the [Reference content](#) on page 41.



## Example

### Deletion response for a local\_user

The following example returns a job resource instance in response to a successful asynchronous DELETE request.

Request	<code>DELETE https://1.2.3.4/api/rest/local_user/4?is_async=true</code>
Response	<pre>{   "id": "476c903a-1bc2-4370-9a4b-426594ed9604" }</pre>

## Error response

An error response is returned in response to an unsuccessful request; that is, a request that returns a 4xx or 5xx HTTP status code. Unlike the response bodies returned by successful requests, an error response cannot be queried independently.

For a description of the error response attributes, see the [Reference content](#) on page 41.

## Example

### Error response for a POST request

The following example returns an error response in response to an unsuccessful POST request:

Request	<code>POST https://1.2.3.4/api/rest/volume_group/257f2597-7c11-46c9-8941-3793e1cb2baa/refresh</code>
Request body	<pre>{   "from_object_id": "22f3bf53-ad83-4466-8e5e-5b0fade650da" }</pre>
Response	<pre>{   "messages": [     {       "code": "0xE0A070020007",       "severity": "Error",       "message_l10n": "Family mismatch for snapshot target 257f2597-7c11-46c9-8941-3793e1cb2baa and source 22f3bf53- ad83-4466-8e5e-5b0fade650da.",       "arguments": [         "257f2597-7c11-46c9-8941-3793e1cb2baa",         "22f3bf53-ad83-4466-8e5e-5b0fade650da"       ]     }   ] }</pre>

# JSON encodings

## JSON base value encodings

The following table shows the JSON encodings for each base type:

 **NOTE:** A property that has no value appears as the type `null`.

Type name	JSON definition	Format after "<name>":	Example	Notes
short	type: integer format: int16	<int value>	"drive_count":600	N/A
integer	type: integer format: int32	<int value>	"answer": 42	N/A
long	type: integer format: int64	<int value>	"size": 123456789	N/A
float	type: number format: float	<float value>	"progress": 99.9	N/A
double	type: number format: double	<float value>	"throughput": 123456.78	N/A
string	type: string	<string value>	"description": "some text"	Use \ to escape the quote (") and control characters.
byte	type: string format: byte	<base64 encoded character string>	"bitmask": "c3VyZS4="	Base64 encoded byte sequence.
binary	type: string format: binary	<octet sequence string>	"checksum": "1a2b3c4d1234dcba"	Hex encoded byte sequence.
boolean	type: boolean	true false	"force":true	Case insensitive.
date	type: string format: date	"yyyy-mm-dd"	"expiration_date": "2020-02-02"	As defined by full-date - <a href="#">RFC3339</a> .
timestamp	type: string format: timestamp	"hh:mm:ss[.sss]"	"daily_start_time": "03:30:00"	As defined by partial-time - <a href="#">RFC3339</a> .
date-time	type: string format: date- time	yyyy-mm- ddThh:mm:ss[.sss]Z	"updated": "2015-07-14T18:21:32 .621Z"	As defined by full-date - <a href="#">RFC3339</a> . All times are expressed in UTC time. The optional [.sss] contains fractional milliseconds.
password	type: string	<string value>	"password": "wordpass "	This is a string in the API and may be presented differently by

Type name	JSON definition	Format after "<name>":	Example	Notes
	format: password			a client (to hide typed input). This is handled differently on the server (for example, the values are not logged).
ip-address	type: string format: ip-address	String containing an IPv4 address, IPv6 address, or host name.	"mgmtAddr": "128.222.1.2"	In this API, some attributes support IPv4 only, while others support both IPv4 and IPv6. Some attributes also support DNS names.  The help topics for individual resource types in the <a href="#">Reference content</a> on page 41 indicate which IP address options are supported by that resource type.
URI	type: string format: uri	"<url in a string>"	"href": "https://foo.com/bar.jsp"	N/A
embedded	type: string format:	{ "<propName>":<value1>, ... }	" health": { "value":0, "description": "OK", "resolution":"" }	In this example, health is an embedded type with three attributes: value, description, and resolution.
enum	type: string format:	<string value>	"severity": "Error"	Enumeration values are single token strings. Each enumeration is defined in the <a href="#">Reference content</a> on page 41.
id	type: string format:	<string value>	"id": "123"	<id> value of the referenced resource instance.

## JSON list encoding

A JSON list is a list of values with the following format:

```
[ <value1>, <value2>, <value3>, ... ]
```

where:

- Square brackets enclose the list.
- Commas separate each value.
- <value> can be another list or any of the base value encoding formats.

JSON lists can be empty.

## Examples

### An empty list

```
"addresses": [ ]
```

### A list with one value

```
"addresses": ["1.2.3.4"]
```

### A list with three values

```
"addresses": ["1.2.3.4", "5.6.7.8", "4.3.2.1"]
```

# Managing a REST API session

## Connecting and authenticating

All requests to the REST API must be authenticated. The REST API uses the standard HTTP Basic access authentication mechanism to authenticate REST requests. The same users are valid for REST or GUI access.

To log in to the REST API server, use the following request components:

Header	Accept: application/json Content-Type: application/json (if the request has a non-empty request body) Authorization: <base 64 encoding of username and password>
Operation	GET, PATCH, POST, or DELETE
URI pattern	URI pattern for one of the requests listed in the Operation section

**NOTE:** To avoid exposure to a cross-site request forgery (CSRF), requests other than GET require the `DELL-EMC-TOKEN` header. Before issuing any REST call which changes the state of the object (such as POST, PATCH or DELETE), send a GET request to receive a CSRF token. Use the value of token from the response header that is obtained from the GET call as a Header value in the subsequent calls for this session.

The server returns the following in response to a successful login:

- A 200 OK HTTP status code.
- `auth_cookie` header, which is required to authenticate all subsequent requests, unless you resubmit the user ID and password with each request. It is also required for logging out of the session.

**NOTE:** Once the `auth_cookie` value is set, a browser automatically sets the cookie value for each request.

If the authentication fails, the server returns a 401 Unauthorized HTTP status code.

## Obtaining login session information

Query the `login_session` resource type to find out basic information about the current session. The following table describes the information that is returned in response to a successful query of the `login_session` resource type:

Attribute	Description
<code>id</code>	The unique identifier of the <code>login_session</code> resource instance.
<code>user</code>	Information about the user logged into this session defined by the <code>local_user</code> resource type.
<code>role_ids</code>	Roles for the user who is logged into this session defined by the <code>role</code> resource type.
<code>idle_timeout</code>	Number of seconds after last use until this session expires.
<code>is_password_change_required</code>	Indicates whether the password must be changed in order to use this session created for the built-in admin account.  The values are: <ul style="list-style-type: none"> <li>• <code>true</code> - Password must be changed.</li> <li>• <code>false</code> - Password does not need to be changed.</li> </ul> For information about changing the password for a local user, see the Help topic for the <code>local_user</code> resource type in the <a href="#">Reference content</a> on page 41.

Attribute	Description
is_built_in_user	Indicates whether the user is a system-defined user, such as <b>admin</b> .

#### Example login session information

```
[
  {
    "id": "85d0dbfc-d364-47b9-ad90-0fe03efdf860",
    "user": "1",
    "role_ids": ["1"],
    "idle_timeout": 36000,
    "is_password_change_required": false,
    "is_built_in_user": true
  }
]
```

## Logging out of the REST API session

Use the following request components to log out of an existing REST API session:

Header	Accept: application/json Content-Type: application/json Authorization: <auth_cookie>
Operation	POST
URI pattern	https://1.2.3.4/api/rest/logout

The server returns a 204 No Content HTTP status code and an empty response body in response to a successful logout.

## Querying a resource

### Pagination

When you query a resource, the server limits the size of the returned collection by default. This collection is limited to the number of instances up to a specified pagination limit, which defaults to 100. If the requested collection has fewer instances than this limit, the response contains the status code `200 OK` and all requested instances in its body.

When the requested collection is larger than the limit, the response status code changes to `206 (Partial Content)`. The response body contains only the partial collection with a size equal to the pagination limit.

Also, a special header `Content-Range` is added. This header contains information about how many items were returned, their position in the whole collection, and the total size of the collection. For example, `0-99/1000` indicates that first 100 items were returned out of 1000.

### Pagination parameters and ordering

You can control the number and position of the returned partial collection by using pagination parameters and ordering. Pagination parameters can be passed as a URL parameters `limit` and `offset`, or in a request header `Range`, which specifies indexes of the first and last items in the total collection to return. [<add a link to the section about ordering>](#)

Parameter	Type	Description
<code>offset</code>	<code>integer</code>	Use this parameter to specify what the first item in the returned collection. The default is 0.
<code>limit</code>	<code>integer</code>	The maximum number of entries that the query returns.

The default pagination limit is 100; you can enter values from 1 to 2000. If 0 or less is entered as the value of the `limit`, the response is the status code `416 Range Not Satisfiable`. A response to a request with a valid `limit` parameter contains results up to the specified maximum number of items. If you specify a larger value, the server changes the limit to 2000.

When you limit the number of returned instances, by default, the first instances from the collection are returned based on the ordering. To get a partial collection starting from an index other than 0, use the URL parameter `offset`. Its default value is 0; other valid values are positive integers up to the total size of the collection. Invalid offset values cause the response status code `416 Range Not Satisfiable`.

Another way that you can request a specific range of items from a collection is to specify the first and last index of the instances of the partial collection using the request header `Range`. For example, a request with the header `Range: "100-199"` retrieves the second batch of 100 items in the collection.

### Retrieving data for multiple occurrences in a collection

To retrieve data for multiple occurrences of a resource type, use the following request components:

Headers	<code>Accept: application/json</code> <code>Authorization: &lt;auth_cookie&gt;</code>
Operation	<code>GET</code>

URI pattern	<p>/api/rest/&lt;resource_type&gt;</p> <p>where &lt;resource_type&gt; is the resource type for the collection you want to return. For additional functionality, such as filtering instances, you can append one or more request parameters to the URI.</p>
Body	Empty.

If the request succeeds, the server returns a 200 OK HTTP status code and a collection resource in the response body. If the request does not succeed, the server returns a 4xx or 5xx HTTP status code and an error response. If there are no instances in a collection, the server returns a 200 OK HTTP status code and an empty body containing only [].

By default, the response to a GET collection request includes only the unique identifier for each instance of the specified resource type. You can use the following request parameters to customize the returned data:

Request parameters	Description
select	Requests data for a specified set of attributes.
order	Specifies how to sort the response data.
<attribute expression>	Filters the response data against a set of criteria. Only matching resource instances are returned. Filtering is case insensitive.
limit	Limits the maximum number of items in the returned collection (1-2000).
offset	Provides an index of the first returned instance.

### Retrieving data for all alerts in the system

The following request returns information about all alerts in the system. The select parameter specifies that the values for the id, severity, and description attributes should be returned. This example shows three returned instances:

Header	Accept: application/json
Request	GET https://1.2.3.4/api/rest/alert?select=id,event_code,severity,description_l10n
Request body	Empty.
Response body	<pre>[   {     "id":"014f999e-96d8-4f85-853c-c6a0e2569088",     "severity":"Minor",     "description_l10n":"Cluster license installation failed due to Fail to obtain license file. The trial period will expire on 2019-11-27 18:47:26.985, after which no new storage provisioning will be allowed."   },   {     "id":"2d3cc48d-0296-4d15-afb9-252061cf7df9",     "severity":"Minor",     "description_l10n":"Bus 0 enclosure 0 LCCA is initializing."   },   {     "id":"37583ff1-b0fe-41f2-9b3d-e5e5d2e5e525",     "severity":"Info",     "description_l10n":"The remote system &lt;undefined&gt; volume discovery or refresh has failed."   } ]</pre>

## Retrieving data for a specified resource instance

To retrieve data for a specified resource instance, use the following request components:



Headers	Accept: application/json Authorization: <auth_cookie>
Operation	GET
URI pattern	/api/rest/<resource_type>/<id>  where: <ul style="list-style-type: none"> <li>• &lt;resource_type&gt; is the resource type of the desired instance.</li> <li>• &lt;id&gt; is the unique identifier of the desired instance.</li> </ul> For additional functionality, such as returning specific attributes, you can append one or more request parameters to the URI.
Body	Empty.

If the request succeeds, the server returns a 200 OK HTTP status code and an instance resource in the response body. If the request does not succeed, the server returns a 4xx or 5xx HTTP status code and a message entity in the response body.

By default, the response to a GET instance request includes only the unique identifier (id attribute) of the specified resource instance. You can use the following request parameters to customize what data is returned:

Request parameter	Description
select	Requests data for a specified set of attributes.

### Example

The following request returns the values for the id, name, and serial\_number attributes for the appliance resource instance that has an id of J8WRPD2.

Header	Accept: application/json
Request	GET https://1.2.3.4/api/rest/appliance/J8WRPD2?select=id,name,service_tag
Response body	{ "id": "J8WRPD2", "name": "H2025-appliance-1", "service_tag": "J8WRPD2" }

## Specifying the attributes to return in a query response

Use the select request parameter in a collection query to specify the set of attributes to return in a response. If you do not use this parameter, a query will return the id attribute only.

When you use the select request parameter, you can refer to attributes in a related resource type, as described in the Syntax section below.

### Syntax

As the first parameter on the request URI: ?select=<attr1>,<attr2>,<attr3>...

As a subsequent parameter on the request URI: &select=<attr1>,<attr2>,<attr3>...

where the attributes whose values you want to retrieve are listed in a comma-separated list.

You can use nested notation syntax (`<reference_attribute_name>(<attr1?,<attr2>...)`) in a `select` expression to return the values of attributes from related resource types. A related resource type is a resource type that is either referred to explicitly in the definition of the target resource type or embedded in the target resource type.

## Considerations

The following considerations apply to using the `select` parameter:

- If a `select` request is made for an attribute that is not defined on the resource type, the server returns a 400 `Bad Request` error.
- If an attribute has a valid, empty string value, the server returns the value as `<attribute>:""`.
- Although a response normally contains only the requested attributes, this is not guaranteed. You should therefore be prepared to ignore unrequested properties.

### Retrieving the name and create\_time for a local\_user

The following request retrieves values for the `name` and `create_time` attributes in the `local_user` resource collection:

Headers	<pre>Accept: application/json Authorization: &lt;auth_cookie&gt;</pre>
Request	<pre>GET https://1.2.3.4/api/rest/local_user?select=name,role_id</pre>
Response body	<pre>[   {     "name": "admin",     "role_id": "1"   },   {     "name": "stadmin",     "role_id": "2"   },   {     "name": "vmadmin",     "role_id": "4"   } ]</pre>

## Filtering response data

Use one or more filter expressions in a request parameter to specify matching criteria for a list of resources returned by a collection query. A filter expression works like an SQL `WHERE` clause. You specify a filter expression composed of boolean predicates, and the expression is applied against the attribute values of the requested resource type. Only those instances that cause the filter expression to evaluate to true are returned in the query response. The system ANDs together multiple filter expressions.

Filter expressions use operators such as `gt`, `gte`, `lt`, and `lte`. The interpretation of these operators is type-dependent. For example, `gt` used with `datetime` attributes means the date value to the right of `gt` must be more recent than the date value to the left of `gt`.

Filtering is case insensitive for any property called `name`.

Using a filter expression can save bandwidth, because the server removes extra data before returning data to the client. However a filter expression does not reduce the amount of work the server performs to answer the request.

 **NOTE: Complex requests can be slow or can fail.**

## Syntax

As the first parameter on the request URI: `?<attribute_name>=<filter_expr>`

As a subsequent parameter on the request URI: `&<attribute_name>=<filter_expr>`

where `<filter_expr>` is defined by the following syntax :

[not.]<operator>.<filter value> You can use nested notation syntax (<reference\_attribute\_name>(<attr1>,<attr2>...)) in a filter expression to filter by attributes from a related resource type.

**NOTE: Some resource types and attributes do not support filtering, which is indicated in their descriptions.**

You can also filter by attributes that are not requested in the select URL parameter. A related resource type is a resource type that is either referred to explicitly in the definition of the target resource type or embedded in the target resource type.

## Supported operators

Comparator	Description	Applicable data types	Example
eq	Equal. Returns true when the expression on the left of =eq equals the expression on the right.	All	?role_id=eq.3 True if the value of role_id is Operator.
gt	Greater than. Returns true when the expression on the left of =eq is greater than the expression on the right.	All	?low_value=gt.5 True if the value of low_value is greater than 5.
gte	Greater than or equal. Returns true when the expression on the left of =eq is greater than or equal to the expression on the right.	All	?software_version=gte.5.3 True if the value of software_version is greater than or equal to 5.3.
lt	Less than Returns true when the expression on the left of =eq is less than the expression on the right.	All	? modify_time=lt.2018-05-07T17:56:28.859+00:00 True if the value of modify_time is earlier than 2018-05-07T17:56:28.859+00:00.
lte	Less than or equal. Returns true when the expression on the left of =eq is less than or equal to the expression on the right.	All	? modify_time=lte.2018-05-07T17:56:28.859+00:00 True if the value of modify_time is 2018-05-07T17:56:28.859+00:00 or earlier.
neq	Not equal. Returns true when the expression on the left of =eq is not equal to the expression on the right.	All	?role_id=neq.3 True if the value of role_id is anything other than Operator.
ilike	Case-insensitive substring match. Returns true when the expression on the left of =eq, including its case, matches the expression on the right. Use * for a wildcard.	String	?name=ilike.User* True if the value of name starts with User.
in	One of a list of values. Returns true when the expression on the left of =eq matches any value in the comma-separated list on the right.	All	?role_id=in. (operator, administrator, service) True if the value of role_id is Operator, Administrator, or VM Administrator.
is	Checks for exact equality to null, true, or false values.	null (All), true, false (Boolean)	?description=is.null
cs	Contains.	List of any type	?supported_speeds=cs. {1_Gbps, 10_Gbps}

Comparator	Description	Applicable data types	Example
			True if the speeds array contains 1 Gbps and 10 Gbps.
cd	Contained in.	List of any type	?server_addresses=cd. { "1.2.3.4", "5.6.7.8" }  True if the values in the server addresses list are all either 1.2.3.4 or 5.6.7.8.
not	Negates the operator that follows.	All	?resource_type=not.in. (Operator, Administrator, VM Administrator)  True if the value of role_id is not Operator, Administrator, or VM Administrator.
and	All the conditions in the parentheses that follow must be true in order for the request to evaluate as true. <b>i NOTE: The default for multiple filters is to AND them, so the use of and is optional unless you are using both and and or in the filter expression.</b>	All	? and=(size.gt.50,performance_policy_id.eq.default_high)  True if the value of size is greater than 50 MB and the value of performance_policy is High.
or	At least one of the conditions in the parentheses that follow must be true in order for the request to evaluate as true.	All	? or=(size.gt.50,performance_policy_id.eq.default_high)  True if either the value of size is greater than 50 MB or the value of performance_policy is High or both.

## Sorting response data

Use the `order` request parameter to specify sort criteria for one attribute in a list of resources returned by a collection query. The `order` parameter works like an SQL Order By clause. You can specify one of these sort orders for the attribute:

- `asc`: (Default) Sorts the response data in ascending order.
- `desc`: Sorts the response data in descending order.

Sorting is case insensitive for any property called `name`.

## Syntax

As the first parameter on the request URI: `?order=<order_expr>`

As a subsequent parameter on the request URI: `&order=<order_expr>`

where `<order_expr>` is defined by the following syntax:

```
prop_expr1[.asc|.desc], [prop_expr2[.asc|.desc]...
```

where:

- `prop_expr1` and `prop_expr2` are attribute names that are defined for the resource being queried.
- `asc` and `desc` are case insensitive.

### Retrieving values for all alerts, sorted by state

The following request retrieves values for the `id`, `description`, and `alert_state` attributes for all alert instances and sorts this information by `alert_state` in ascending order.

Headers	Accept: application/json Authorization: <auth_cookie>
Request	GET https://1.2.3.4/api/rest/alert?select=id,description_l10n,state&order=state
Response body	<pre>[   {     "id": "1bf5e114-b476-492b-a37e-7d9c1b38e7b9",     "description_l10n": "Firmware version of the rights DAE PSU is no_errors. Current firmware version is 09.16s.",     "state": "Active"   },   {     "id": "27f6caef-219a-406c-ad74-2ab801e56b19",     "description_l10n": "Firmware version of the tops DAE Controller is no_errors. Current firmware version is 2.30.0s.",     "state": "Active"   },   {     "id": "0ed1b64a-91aa-444e-a832-cec924e41850",     "description_l10n": "Port state was changed from downs to ups.",     "state": "Cleared"   },   {     "id": "d406b80d-db51-4853-a835-23ed5512ae0d",     "description_l10n": "Port state was changed from downs to ups.",     "state": "Cleared"   } ]</pre>

## Including data from a related resource type in a query

You can extend the scope of a collection query to retrieve data from a related resource type. The REST model describes two kinds of relations:

- A referenced resource type
- An embedded resource type

### Referenced resource types

A referenced resource type describes an instance of a linked object type. This resource type is declared in the REST model as a reference to an object (for a many-to-one relation) or an array of objects (for a one-to-many or many-to-many relation). To return information about instances and their related instances, use the following syntax in the `select` parameter to specify the desired attributes from the related resource type:

```
...<attribute1>,<attribute2>,<related_resource> (id,related_attribute2, related_attribute3...)
```

If you omit the list of parameters, only the `select` attribute and its value are returned for the referenced object:

```
...<attribute1>,<attribute2>,<related_resource>
```

### Examples

The following queries use the `select` request parameter to return information about nodes and their related appliances.

### Returning specified parameters for the appliance related to each node

Headers	Accept: application/json Authorization: <auth_cookie>
Request	https://1.2.3.4/api/rest/node?select=id,name,appliance(id,name)
Response body	<pre>[   {     "id": "N1",     "name": "H0112-appliance-1-node-A",     "appliance":       {         "id": "A1",         "name": "H0112-appliance-1"       }   },   {     "id": "N2",     "name": "H0112-appliance-1-node-B",     "appliance":       {         "id": "A1",         "name": "H0112-appliance-1"       }   } ]</pre>

### Returning only the id parameter for the appliance related to each node

Headers	Accept: application/json Authorization: <auth_cookie>
Request	https://1.2.3.4/api/rest/node?select=id,name,appliance
Response body	<pre>[   {     "id": "N1",     "name": "H0112-appliance-1-node-A",     "appliance":       {         "id": "A1"       }   },   {     "id": "N2",     "name": "H0112-appliance-1-node-B",     "appliance":       {         "id": "A1"       }   } ]</pre>

### Returning specified parameters for all nodes related to an appliance

Headers	Accept: application/json Authorization: <auth_cookie>
---------	--

Request	<code>https://1.2.3.4/api/rest/appliance?select=id,name,nodes(id,name)</code>
Response body	<pre>[   {     "id": "A1",     "name": "H0112-appliance-1",     "nodes": [       {         "id": "N1",         "name": "H0112-appliance-1-node-A"       },       {         "id": "N2",         "name": "H0112-appliance-1-node-B"       }     ]   } ]</pre>

### Returning only the id parameter for all nodes related to an appliance

Headers	<pre>Accept: application/json Authorization: &lt;auth_cookie&gt;</pre>
Request	<code>https://1.2.3.4/api/rest/appliance?select=id,name,nodes</code>
Response body	<pre>[   {     "id": "A1",     "name": "H0112-appliance-1",     "nodes": [       {         "id": "N1"       },       {         "id": "N2"       }     ]   } ]</pre>

## Embedded resource types

An embedded resource type describes an instance of nested objects. This resource type is declared in the REST model as a reference to an object or an array of objects with a special note in its description field.

- Embedded resources cannot be queried without a parent object.
- Embedded resources always return all fields. These objects do not allow the user to select which fields to return.

Use the following syntax in the `select` parameter to query an embedded resource type:

```
...<attribute1>,<attribute2>,<embedded_resource>
```

**NOTE:** Extending the scope of a collection query is not supported for all resources. Resources that do not support this functionality include a note in their description stating: **Filtering on the fields of this embedded resource is not supported.**

## Example

### Querying the protection data information for a volume

Headers	Accept: application/json Authorization: <auth_cookie>
Request	https://1.2.3.4/api/rest/volume?select=id,protection_data
Response body	<pre>[   {     "id": "3f6208d1-b325-4901-9fc1-9e82d943b857",     "protection_data":       {         "family_id": "3f6208d1-b325-4901-9fc1-9e82d943b857",         "parent_id": null,         "source_id": null,         "creator_type": "User",         "copy_signature": null,         "source_timestamp": null,         "creator_type_l10n": "User",         "is_app_consistent": null,         "created_by_rule_id": null,         "created_by_rule_name": null,         "expiration_timestamp": null       }   },   {     "id": "9d102db7-048d-4d24-85c2-28c7a5fc91ee",     "protection_data":       {         "family_id": "9d102db7-048d-4d24-85c2-28c7a5fc91ee",         "parent_id": null,         "source_id": null,         "creator_type": "User",         "copy_signature": null,         "source_timestamp": null,         "creator_type_l10n": "User",         "is_app_consistent": null,         "created_by_rule_id": null,         "created_by_rule_name": null,         "expiration_timestamp": null       }   },   {     "id": "f0480b0f-cc6f-431b-9e18-e4b39b2b13e1",     "protection_data":       {         "family_id": "f0480b0f-cc6f-431b-9e18-e4b39b2b13e1",         "parent_id": null,         "source_id": null,         "creator_type": "User",         "copy_signature": null,         "source_timestamp": null,         "creator_type_l10n": "User",         "is_app_consistent": null,         "created_by_rule_id": null,         "created_by_rule_name": null,         "expiration_timestamp": null       }   } ]</pre>



# Creating other types of requests

## Creating a resource instance

To create a resource instance, use the following request components:

Headers	<pre>Accept: application/json Content-Type: application/json Authorization: &lt;auth_cookie&gt;</pre>
Operation	POST
URI pattern	<pre>/api/rest/&lt;resource_type&gt;</pre> <p>where <i>&lt;resource_type&gt;</i> is the resource type of the instance you want to create.</p>
Body	<pre>{   "argument1":&lt;value&gt;,   "argument2":&lt;value&gt;,   "argument3":&lt;value&gt;   .   . }</pre> <p>where the comma-separated list contains all required arguments and any optional arguments. Use double quotes around a string, date-time, or ip-address value.</p>

**NOTE:** The unique identifier of the new instance is generated automatically by the server.

If the request succeeds, it returns a 201 `Created` HTTP status code and a create response body. This resource contains the `id` attribute for the new resource. If the request does not succeed, the server returns a 4xx or 5xx HTTP status code and a message entity in the response body.

### Creating a local\_user

The following request creates an instance of the `local_user` resource type.

Headers	<pre>Accept: application/json Content-Type: application/json Authorization: &lt;auth_cookie&gt;</pre>
Request	POST <code>https://1.2.3.4/api/rest/local_user</code>
Request body	<pre>{   "name": "User1",   "password": "myPassword",   "role_id": "1" }</pre>

Response body	<pre>{   "id": "4" }</pre>
---------------	----------------------------

## Modifying a resource instance

To modify a resource instance, use the following request components:

Headers	<pre>Accept: application/json Content-Type: application/json Authorization: &lt;auth_cookie&gt;</pre>
Operation	PATCH
URI pattern	<pre>/api/rest/&lt;resource_type&gt;/&lt;id&gt;</pre> <p>where:</p> <ul style="list-style-type: none"> <li>• &lt;resource_type&gt; is the resource type of the instance you want to modify.</li> <li>• &lt;id&gt; is the unique identifier of the instance you want to modify.</li> </ul> <p>There are three varieties of PATCH operations:</p> <ul style="list-style-type: none"> <li>• "&lt;attribute&gt;": "new_value" replaces the existing value of the specified attribute with the new value.</li> <li>• "add_&lt;attribute&gt;": ["&lt;new_value1&gt;", "&lt;new_value2&gt;", ...] This only applies to list-type attributes, and adds the specified values to an existing list of values.</li> <li>• "remove_&lt;attribute&gt;": ["&lt;existing_value1&gt;", "&lt;existing_value2&gt;"...] This only applies to list-type attributes, and removes the specified values from an existing list of values.</li> </ul> <p>The <a href="#">Reference content</a> on page 41 documents which varieties of PATCH are supported for each resource type. For additional functionality, such as making the request an asynchronous request, you can append one or more request parameters to the URI.</p>
Body	<pre>{   "argument1":&lt;value&gt;,   "argument2":&lt;value&gt;,   .   .   . }</pre> <p>where the comma-separated list contains all required arguments and any optional arguments. Use double quotes around a string, date-time, or ip-address value.</p>

If the request succeeds, it returns a 204 No Content HTTP status code and an empty response body. If the request does not succeed, the server returns a 4xx or 5xx HTTP status code in the response header and a message entity in the response body.

## Examples

### Replacing existing values in a volume group

The following request modifies the name and description values for the volume\_group resource instance that has an id of ad09bfa8-f8d8-41b5-96a9-c15c9ebdf214:

Headers	<pre>Accept: application/json Content-Type: application/json Authorization: &lt;auth_cookie&gt;</pre>
---------	---

Request	PATCH https://1.2.3.4/api/rest/volume_group/ad09bfa8-f8d8-41b5-96a9-c15c9ebdf214
Request body	<pre>{   "name": "Storage resources for Marketing",   "description": "Volumes for storing competitive analysis information" }</pre>
Response body	Empty.

### Adding additional volumes to a volume group

The following request adds two volumes to the `volume_group` resource instance that has an id of `ad09bfa8-f8d8-41b5-96a9-c15c9ebdf214`:

Headers	Accept: application/json Content-Type: application/json Authorization: <auth_cookie>
Request	PATCH https://1.2.3.4/api/rest/volume_group/ad09bfa8-f8d8-41b5-96a9-c15c9ebdf214
Request body	<pre>{   "add_volume_ids": ["2b2e4948-5f23-495e-8e72-e26c5734c83f",     "6eaaa9bd-70e7-4b5f-9aca-fd2731d3c176"] }</pre>
Response body	Empty.

### Removing volumes from a volume group

The following request removes two volumes from the `volume_group` resource instance that has an id of `ad09bfa8-f8d8-41b5-96a9-c15c9ebdf214`:

Headers	Accept: application/json Content-Type: application/json Authorization: <auth_cookie>
Request	PATCH https://1.2.3.4/api/rest/volume_group/ad09bfa8-f8d8-41b5-96a9-c15c9ebdf214
Request body	<pre>{   "remove_volume_ids": ["2b2e4948-5f23-495e-8e72-e26c5734c83f",     "6eaaa9bd-70e7-4b5f-9aca-fd2731d3c176"] }</pre>
Response body	Empty.

## Deleting a resource instance

To delete a resource instance, use the following request components:

Headers	<pre>Accept: application/json Authorization: &lt;auth_cookie&gt;</pre> <p>If a resource type has request arguments for the DELETE operation, you must also use the following header:</p> <pre>Content-Type: application/json</pre>
Operation	DELETE
URI pattern	<pre>/api/rest/&lt;resource_type&gt;/&lt;id&gt;</pre> <p>where:</p> <ul style="list-style-type: none"> <li>· &lt;resource_type&gt; is the resource type of the instance you want to delete.</li> <li>· &lt;id&gt; is the unique identifier of the instance you want to delete.</li> </ul> <p>For additional functionality, such as making the request an asynchronous request, you can append one or more request parameters to the URI.</p>
Body	For most resource types, the body of a DELETE request is empty. However, if a resource type has request arguments for the DELETE operation, they are passed as a comma-separated list of standard JSON name:value pairs.

If the request succeeds, it returns a 204 No Content HTTP status code and an empty response body. If the request does not succeed, the server returns a 4xx or 5xx HTTP status code in the response header and a message entity in the response body.

### Deleting a volume\_group instance

The following request deletes the `volume_group` instance that has an `id` of `23772434-6373-4748-aa1a-f4197475812a`:

Headers	<pre>Accept: application/json Content-Type: application/json Authorization: &lt;auth_cookie&gt;</pre>
Request	DELETE https://1.2.3.4/api/rest/volume_group/23772434-6373-4748-aa1a-f4197475812a
Request body	Empty.
Response body	Empty.

## Performing an instance-level resource-specific action

Some resource types have operations that let you perform resource-specific actions on resource instances beyond the standard delete and modify actions. For example, you can use the `volume` resource type's `refresh` operation to refresh the contents of a volume from another volume in the same family.

To perform a resource-specific action on a resource instance, use the following request components:

Headers	<p>For operations without request arguments:</p> <pre>Accept: application/json Authorization: &lt;auth_cookie&gt;</pre>
---------	---

	<p>For operations with request arguments:</p> <pre>Accept: application/json Content-Type: application/json Authorization: &lt;auth_cookie&gt;</pre>
Operation	POST
URI pattern	<pre>/api/rest/&lt;resource_type&gt;/&lt;id&gt;/&lt;action_name&gt;</pre> <p>where:</p> <ul style="list-style-type: none"> <li>• &lt;resource_type&gt; is the resource type of the instance for which you want to perform an action.</li> <li>• &lt;id&gt; is the unique identifier of the instance for which you want to perform an action.</li> <li>• &lt;action_name&gt; is the action that you want to perform.</li> </ul> <p>For additional functionality, such as making the request an asynchronous request, you can append one or more request parameters to the URI.</p>
Body	<p>For operations without request arguments:</p> <p>Empty.</p> <p>For operations with input data:</p> <pre>{   "argument1":&lt;value&gt;,   "argument2":&lt;value&gt;,   .   . }</pre> <p>where the comma-separated list contains all required arguments and any optional arguments. Use double quotes around a string, date-time, or ip-address value.</p>

The success response for an instance-level resource-specific action differs depending on whether the action performed has output data:

- For actions that do not have output data, a successful request returns a 204 No Content HTTP status code and an empty response body.
- For actions that have output data, a successful request returns a 200 OK HTTP status code, and the body has the specified out attributes in an instance resource response body.

If the request does not succeed, the server returns a 4xx or 5xx HTTP status code in the response header and a message entity in the response body.

### Creating a snapshot of a specified volume

The following request creates a snapshot of the volume instance that has an id of a47a6bc8-ad32-4e07-bd51-15adc831dfee:

Headers	<pre>Accept: application/json Content-Type: application/json Authorization: &lt;auth_cookie&gt;</pre>
Request	<pre>POST /api/rest/volume/a47a6bc8-ad32-4e07-bd51-15adc831dfee/snapshot</pre>
Request body	<p>(Optional)</p> <pre>{   "description": "DB copy before application upgrade" }</pre>

Response body	<pre>{   "id": "57cdb822-490e-4755-b8b3-99bb779b1472" }</pre>
---------------	---

## Performing a class-level action

Some resource types have operations that let you perform class-level actions. For example, exchanging SSL certificates with another PowerStore appliance.

To perform a class-level action, use the following request components:

Headers	<p>For operations without request arguments:</p> <pre>Accept: application/json Authorization: &lt;auth_cookie&gt;</pre> <p>For operations with request arguments:</p> <pre>Accept: application/json Content-Type: application/json Authorization: &lt;auth_cookie&gt;</pre>
Operation	POST
URI pattern	<pre>/api/rest/&lt;resource_type&gt;/&lt;action_name&gt;</pre> <p>where:</p> <ul style="list-style-type: none"> <li>• &lt;resource_type&gt; is the resource type of the class for which you want to perform an action.</li> <li>• &lt;action_name&gt; is the action you want to perform.</li> </ul> <p>For additional functionality, such as making the request an asynchronous request, you can append one or more request parameters to the URI.</p>
Body	<p>For operations without request arguments:</p> <p>Empty.</p> <p>For operations with input data:</p> <pre>{   "argument1":&lt;value&gt;,   "argument2":&lt;value&gt;,   .   .   . }</pre> <p>where the comma-separated list contains all required arguments and any optional arguments. Use double quotes around a string, date-time, or ip-address value.</p>

The success response for an class-level action differs depending on whether the action performed has output data:

- For actions that do not have output data, a successful request returns a 204 No Content HTTP status code and an empty response body.
- For actions that have output data, a successful request returns a 200 OK HTTP status code, and the body will have the specified out attributes in a class response body.

If the request does not succeed, the server returns a 4xx or 5xx HTTP status code in the response header and a message entity in the response body.

### Exchanging SSL certificates

The following request exchanges SSL certificates with another PowerStore appliance:

Headers	Accept: application/json Content-Type: application/json Authorization: <auth_cookie>
Request	POST /api/rest/x509_certificate/exchange
Request body	{ "service": "Management_HTTP", "address": "10.244.53.108", "port": 8080, "username": "user1", "password": "myPassword" }
Response body	Empty.

## Working with asynchronous requests

By default, all REST API requests are synchronous, which means that the client/server connection stays open until the request completes and the response is returned.

Alternatively, you can make any active management request (one that changes the system rather than just querying it) into an asynchronous request by adding URL parameter `is_async=true` to the request URL. Asynchronous requests can be more reliable than synchronous requests. With an asynchronous request, you start a job, and the server returns an associated job resource instance almost immediately. You can query the `job` resource instance when convenient to get the HTTP response code and response body for the request. If you create a synchronous request and the network connection is lost, or the REST client or server goes down while the request is processing, there is no way to obtain the request status when it does eventually complete.

## Syntax

As the first parameter on the request URI:

```
?is_async=true
```

As a subsequent parameter on the request URI:

```
&is_async=true
```

## Usage

The following considerations apply to asynchronous requests:

- A valid asynchronous request returns a 202 `Accepted` HTTP status code and a minimal `job` resource instance in the response body.
- An invalid asynchronous request returns immediately with the appropriate error code in the response header and a message entity in the response body.

To view the status of an asynchronous request, retrieve data for the appropriate `job` resource instance. For example, if an asynchronous `PATCH local_user user` request returns a `job` resource instance with an `id` of `1b6df699-7083-4440-912c-22e2ed89c530`, you can use an instance query to retrieve the asynchronous request data from this `job` resource. Query at least the `state` and `response_body` attributes. If the state is `Completed` or `Failed`, the `response_body` contains the error response.

### Creating an asynchronous request

The following example uses the `is_async=true` request parameter on a request to modify an `volume_group` instance.

Headers	Accept: application/json Content-Type: application/json Authorization: <auth_cookie>
---------	--

Request	PATCH https://1.2.3.4/api/rest/volume_group/e436abe3-d78e-4d1d-a349-349368803c59? is_async=true
Request body	{ "description": "Storage resources for the Finance department" }
Response body	{ "id": "1b6df699-7083-4440-912c-22e2ed89c530" }

### Viewing an asynchronous request

The following example shows the job instance that is associated with the request that is shown above:

Headers	Accept: application/json Content-Type: application/json Authorization: <auth_cookie>
Request	GET https://1.2.3.4/api/rest/job/1b6df699-7083-4440-912c-22e2ed89c530? select=id,description_l10n,state,response_body
Request body	Empty.
Response body	{ "id": "1b6df699-7083-4440-912c-22e2ed89c530", "description_l10n": "Modify a volume group.", "state": "COMPLETED", "response_body": null }



## Reference content

This section describes the resource types, methods, and attributes in the PowerStore Management REST API, along with other API information such as datatypes and enumerations.

Reference materials are also available on the appliance in several formats:

- Swagger UI—<https://<cluster management ip address>/swaggerui>
- JSON—<https://<cluster management ip address>/api/rest/openapi.json>

# Resources

## alert

Use these resource types to manage events and alerts in the system.

### GET /alert

#### Description

Query all alerts.

#### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">alert_instance</a> > array
206	Partial content of alert instance objects	< <a href="#">alert_instance</a> > array

### GET /alert/{id}

#### Description

Query a specific alert.

#### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the alert.	string

#### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">alert_instance</a>
404	Not Found	<a href="#">error_response</a>

## PATCH /alert/{id}

### Description

Modify an alert. `acknowledged_severity` parameter, if included, will cause the request to fail when the alert's severity is higher than the `acknowledged_severity` parameter value. `acknowledged_severity` is ignored when `is_acknowledged` is set to false.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the specific alert.	string
Body	<b>alert_modify</b> <i>required</i>		<a href="#">alert_modify</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

### Consumes

- `application/json`

### Produces

- `application/json`

## appliance

Manage appliances

### GET /appliance

#### Description

Query the appliances in a cluster.

## Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">appliance_instance</a> > array
206	Partial content of appliance instance objects	< <a href="#">appliance_instance</a> > array

## GET /appliance/{id}

### Description

Query a specific appliance in a cluster.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the appliance.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">appliance_instance</a>
404	Not found	<a href="#">error_response</a>

### Consumes

- `application/json`

### Produces

- `application/json`

## PATCH /appliance/{id}

### Description

Modify an appliance's name.

## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the appliance.	string
Body	<b>body</b> <i>required</i>		<a href="#">appliance_modify</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Argument	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## Consumes

- `application/json`

## Produces

- `application/json`

## POST /appliance/{id}/forecast

### Description

Forecast capacity usage for an appliance.

## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique id of the appliance.	string
Body	<b>body</b> <i>required</i>		<a href="#">appliance_forecast</a>

## Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">appliance_forecast_response</a> > array
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## Produces

- [application/json](#)

## POST /appliance/{id}/time\_to\_full

### Description

Returns information about when an appliance is forecast to reach 100% capacity usage.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique id of the appliance.	string
Body	<b>body</b> <i>required</i>		<a href="#">appliance_time_to_full</a>

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">appliance_time_to_full_response</a>
204	Success	No Content

HTTP Code	Description	Schema
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

### Produces

- [application/json](#)

## audit\_event

Use this resource type to query audit log information.

### GET /audit\_event

#### Description

Query audit log entries.

#### Responses

HTTP Code	Description	Schema
200	OK	< <a href="#">audit_event_instance</a> > array
206	Partial content of audit event instance objects	< <a href="#">audit_event_instance</a> > array

### Produces

- [application/json](#)

## bond

Use these resource types to manage the cluster-wide configuration of virtual IP ports, bonds, and virtual Ethernet ports.

### GET /bond

## Description

Query bond configurations.

## Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">bond_instance</a> > array
206	Partial content of bond instance objects	< <a href="#">bond_instance</a> > array

## GET /bond/{id}

### Description

Query a specific bond configuration.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the bond configuration.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">bond_instance</a>
404	Not Found	<a href="#">error_response</a>

### Consumes

- [application/json](#)

### Produces

- [application/json](#)

## chap\_config

CHAP is enabled (or not) identically cluster-wide for all iSCSI targets. For both single and mutual CHAP authentication modes, the common username and password for all targets on the cluster are



set here. For mutual mode, each initiator also has a CHAP username and password set. Changing the cluster CHAP mode disrupts all iSCSI connections, and will disable connections that are not completely and correctly configured. For example, an initiator without a valid CHAP username and password will lose connectivity to the target if mutual model is enable here. Both the settings here, and the settings on the initiators can be modified while CHAP mode is in disabled mode.

## GET /chap\_config

### Description

Query the list of (one) CHAP configuration settings objects. This resource type collection query does not support filtering, sorting or pagination

### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">chap_config_instance</a> > array
206	Partial content of chap config instance objects	< <a href="#">chap_config_instance</a> > array

## GET /chap\_config/{id}

### Description

Query the CHAP configuration settings object.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	The id of the CHAP configuration object (always "0").	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">chap_config_instance</a>
404	Not Found	<a href="#">error_response</a>

## PATCH /chap\_config/{id}

### Description

Modify the CHAP configuration settings object. To enable either Single or Mutual CHAP modes, the username and password must already be set, or included in the same request as the new mode.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	The id of the CHAP configuration object (always "0").	string
Body	<b>body</b> <i>required</i>		<a href="#">chap_config_modify</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## cluster

Manage clusters

### GET /cluster

#### Description

Get details about the cluster. This resource type collection query does not support filtering, sorting or pagination

#### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">cluster_instance</a> > array
206	Partial content of cluster instance objects	< <a href="#">cluster_instance</a> > array

### Produces

- [application/json](#)

## GET /cluster/{id}

### Description

Get details about the cluster. This does not support the following standard query functionality: property selection, and nested query embedding.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	ID of the cluster.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">cluster_instance</a>
404	Not Found	<a href="#">error_response</a>

### Produces

- [application/json](#)

## PATCH /cluster/{id}

### Description

Modify cluster properties, such as physical MTU.

### Parameters

Type	Name	Description	Schema
<b>Path</b>	<b>id</b> <i>required</i>	Unique identifier of the cluster.	string
<b>Body</b>	<b>body</b> <i>optional</i>		<a href="#">cluster_modify</a>

## Responses

HTTP Code	Description	Schema
<b>204</b>	Success	No Content
<b>400</b>	Invalid Request	<a href="#">error_response</a>
<b>404</b>	Not Found	<a href="#">error_response</a>
<b>422</b>	Operation Failed	<a href="#">error_response</a>

## Consumes

- `application/json`

## Produces

- `application/json`

## POST /cluster/{id}/forecast

### Description

Forecast capacity usage for the cluster.

### Parameters

Type	Name	Description	Schema
<b>Path</b>	<b>id</b> <i>required</i>	Unique id of the cluster.	string
<b>Body</b>	<b>body</b> <i>required</i>		<a href="#">cluster_forecast</a>

## Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">cluster_forecast_response</a> > array
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

### Produces

- `application/json`

## POST /cluster/{id}/time\_to\_full

### Description

Returns information about when the cluster is forecast to reach 100% capacity usage.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique id of the cluster	string
Body	<b>body</b> <i>required</i>		<a href="#">cluster_time_to_full</a>

### Responses

HTTP Code	Description	Schema
200	Successful operation.	<a href="#">cluster_time_to_full_response</a>
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>

HTTP Code	Description	Schema
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

### Produces

- [application/json](#)

## discovered\_initiator

List initiators currently connected to the cluster that are not associated with an initiator group or host.

### GET /discovered\_initiator

#### Description

Returns connected initiators that are not associated with a host. This resource type collection query does not support filtering, sorting or pagination

#### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">discovered_initiator_instance</a> > array
206	Partial content of discovered initiator instance objects	< <a href="#">discovered_initiator_instance</a> > array

### Produces

- [application/json](#)

## dns

Manage DNS and NTP settings for the cluster.

## GET /dns

### Description

Query DNS settings for a cluster.

### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">dns_instance</a> > array
206	Partial content of dns instance objects	< <a href="#">dns_instance</a> > array

## GET /dns/{id}

### Description

Query a specific DNS setting.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the DNS setting.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">dns_instance</a>
404	Not Found	<a href="#">error_response</a>

### Consumes

- [application/json](#)

### Produces

- [application/json](#)

## PATCH /dns/{id}

### Description

Modify a DNS setting.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the DNS setting.	string
Body	<b>body</b> <i>required</i>		<a href="#">dns_modify</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

### Consumes

- `application/json`

### Produces

- `application/json`

## email\_notify\_destination

Use these resource types to configure outgoing SMTP and email notifications.

### GET /email\_notify\_destination

#### Description

Query all email notification destinations.



## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">email_notify_destination_instance</a> > array
206	Partial content of email notify destination instance objects	<a href="#">email_notify_destination_instance</a> > array

## POST /email\_notify\_destination

### Description

Add an email address to receive notifications.

### Parameters

Type	Name	Description	Schema
Body	<b>body</b> <i>required</i>	Email address to receive notifications.	<a href="#">email_notify_destination_create</a>

## Responses

HTTP Code	Description	Schema
201	Created	<a href="#">create_response</a>
400	Invalid Request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## GET /email\_notify\_destination/{id}

### Description

Query a specific email notification destination.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the email notification destination.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">email_notify_destination_instance</a>
404	Not Found	<a href="#">error_response</a>

## DELETE /email\_notify\_destination/{id}

### Description

Delete an email notification destination.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the email notification destination.	string

## Responses

HTTP Code	Description	Schema
204	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## PATCH /email\_notify\_destination/{id}

### Description

Modify an email notification destination.

## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the email notification destination.	string
Body	<b>body</b> <i>required</i>	Email address to receive notifications.	<a href="#">email_notify_destination_modify</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /email\_notify\_destination/{id}/test

### Description

Send a test email to an email address.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the email notification destination.	string

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>

HTTP Code	Description	Schema
422	Operation Failed	<a href="#">error_response</a>

## eth\_port

This is the REST API for cluster-wide retrieval and configuration of Ethernet front-end ports.

### GET /eth\_port

#### Description

Get Ethernet front-end port configuration for all cluster nodes.

#### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">eth_port_instance</a> > array
206	Partial content of eth port instance objects	< <a href="#">eth_port_instance</a> > array

### GET /eth\_port/{id}

#### Description

Get Ethernet front-end port configuration by instance identifier.

#### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Ethernet front-end port instance identifier.	string

#### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">eth_port_instance</a>

HTTP Code	Description	Schema
404	Not Found	<a href="#">error_response</a>

## PATCH /eth\_port/{id}

### Description

Change the properties of the front-end port. Note that setting the port's requested speed may not cause the port speed to change immediately. In cases where the SFP is not inserted or the port is down the requested speed will be set but the `current_speed` will still show the old value until the SFP is able to change speed. By default, the partner port speed on the other node in the appliance is set to the same requested speed. If the requested speed is not supported by the partner port it is left unchanged.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the port.	string
Body	<b>body</b> <i>required</i>		<a href="#">eth_port_modify</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## event

Use these resource types to manage events and alerts in the system.

### GET /event

## Description

Returns all events in the database.

## Responses

HTTP Code	Description	Schema
200	An array of events	< <a href="#">event_instance</a> > array
206	Partial content of event instance objects	< <a href="#">event_instance</a> > array

## GET /event/{id}

### Description

Get event by Event Id.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Event Id	string

## Responses

HTTP Code	Description	Schema
200	Event Object	<a href="#">event_instance</a>
404	Not Found	<a href="#">error_response</a>

## fc\_port

Use this resource type to retrieve information about Fibre Channel (FC) front-end ports and to set their connection speeds.

## GET /fc\_port

### Description

Query the FC front-end port configurations for all cluster nodes.

## Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">fc_port_instance</a> > array
206	Partial content of fc port instance objects	< <a href="#">fc_port_instance</a> > array

## GET /fc\_port/{id}

### Description

Query a specific FC front-end port configuration.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the FC front-end port.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">fc_port_instance</a>
404	Not Found	<a href="#">error_response</a>

## PATCH /fc\_port/{id}

### Description

Modify an FC front-end port's speed. Setting the port's requested speed might not cause the port speed to change immediately. In cases where the Small Form-Factor Pluggable (SFP) is not inserted or the port is down, the requested speed is set, but the `current_speed` attribute shows the old value until the SFP is able to change speed. By default, the partner port speed on the other node in the appliance is set to the same requested speed. If the requested speed is not supported by the partner port, it is left unchanged.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the FC front-end port.	string
Body	<b>body</b> <i>required</i>		<a href="#">fc_port_modify</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request.	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## file\_dns

Use these resources to configure the Domain Name System (DNS) settings for a NAS server. One DNS settings object may be configured per NAS server. A DNS is a hierarchical system responsible for converting domain names to their corresponding IP addresses. A NAS server's DNS settings should allow DNS resolution of all names within an SMB server's domain in order for the SMB protocol to operate normally within an Active Directory domain. The DNS default port is 53.

### GET /file\_dns

#### Description

Query of the DNS settings of NAS Servers.

#### Responses

HTTP Code	Description	Schema
200	Success.	< <a href="#">file_dns_instance</a> > array



HTTP Code	Description	Schema
206	Partial content of file dns instance objects	< <a href="#">file_dns_instance</a> > array

## POST /file\_dns

### Description

Create a new DNS Server configuration for a NAS Server. Only one object can be created per NAS Server.

### Parameters

Type	Name	Schema
Body	<b>body</b> <i>required</i>	<a href="#">file_dns_create</a>

### Responses

HTTP Code	Description	Schema
201	Created	<a href="#">create_response</a>
400	Invalid Request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## GET /file\_dns/{id}

### Description

Query a specific DNS settings object of a NAS Server.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the DNS object.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">file_dns_instance</a>
404	Not Found	<a href="#">error_response</a>

## DELETE /file\_dns/{id}

### Description

Delete DNS settings of a NAS Server.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the DNS object.	string

## Responses

HTTP Code	Description	Schema
204	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## PATCH /file\_dns/{id}

### Description

Modify the DNS settings of a NAS Server.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the DNS object.	string

Type	Name	Description	Schema
Body	<b>body</b> <i>required</i>		<a href="#">file_dns_modify</a>

## Responses

HTTP Code	Description	Schema
204	Success.	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## file\_ftp

Use these resources to configure one File Transfer Protocol (FTP) server per NAS server. One FTP server can be configured per NAS server to have both secure and unsecure services running. By default when an FTP server is created, the unsecure service will be running. FTP is a standard network protocol used to transfer files from one host to another host over a TCP-based network, such as the Internet. For secure transmission that encrypts the username, password, and content, FTP is secured with SSH (SFTP). SFTP listens on port 22. You can activate an FTP server and SFTP server independently on each NAS server. The FTP and SFTP clients are authenticated using credentials defined on a Unix name server (such as an NIS server or an LDAP server) or a Windows domain. Windows user names need to be entered using the 'username@domain' or 'domain\\username' formats. Each secure and unsecure service must have a home directory defined in the name server that must be accessible on the NAS server. FTP also allows clients to connect as anonymous users.

### GET /file\_ftp

#### Description

Query FTP/SFTP instances.

#### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">file_ftp_instance</a> > array

HTTP Code	Description	Schema
206	Partial content of file ftp instance objects	< <a href="#">file_ftp_instance</a> > array

## POST /file\_ftp

### Description

Create an FTP/SFTP server.

### Parameters

Type	Name	Schema
Body	<b>body</b> <i>required</i>	<a href="#">file_ftp_create</a>

### Responses

HTTP Code	Description	Schema
201	Created	<a href="#">create_response</a>
400	Invalid Request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## GET /file\_ftp/{id}

### Description

Query a specific FTP/SFTP server for its settings.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the FTP/SFTP Server object.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">file_ftp_instance</a>
404	Not Found	<a href="#">error_response</a>

## DELETE /file\_ftp/{id}

### Description

Delete an FTP/SFTP Server.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the FTP/SFTP Server object.	string

### Responses

HTTP Code	Description	Schema
204	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## PATCH /file\_ftp/{id}

### Description

Modify an FTP/SFTP server settings.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the FTP/SFTP Server object.	string
Body	<b>body</b> <i>required</i>		<a href="#">file_ftp_modify</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## file\_interface

Information about File network interfaces in the storage system. These interfaces control access to Windows (CIFS) and UNIX/Linux (NFS) file storage.

### GET /file\_interface

#### Description

Query file interfaces.

#### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">file_interface_instance</a> > array
206	Partial content of file interface instance objects	< <a href="#">file_interface_instance</a> > array

### POST /file\_interface

#### Description

Create a file interface.

#### Parameters

Type	Name	Schema
Body	<b>body</b> <i>required</i>	<a href="#">file_interface_create</a>

## Responses

HTTP Code	Description	Schema
201	Created	<a href="#">create_response</a>
400	Invalid Request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## GET /file\_interface/{id}

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the file interface.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">file_interface_instance</a>
404	Not Found	<a href="#">error_response</a>

## DELETE /file\_interface/{id}

### Description

Delete a file interface.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the file interface.	string

## Responses

HTTP Code	Description	Schema
204	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## PATCH /file\_interface/{id}

### Description

Modify the settings of a file interface.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the file interface.	string
Body	<b>body</b> <i>required</i>		<a href="#">file_interface_modify</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## file\_interface\_route

Use these resources to manage static IP routes, including creating, modifying, and deleting these routes.

A route determines where to send a packet next so it can reach its final destination. A static route is set explicitly and does not automatically adapt to the changing network infrastructure. A route is



defined by an interface, destination IP address range and an IP address of a corresponding gateway.

**Note:** IP routes connect an interface (IP address) to the larger network through gateways. Without routes and gateway specified, the interface is no longer accessible outside of its immediate subnet. As a result, network shares and exports associated with the interface are no longer available to clients outside their immediate subnet.

## GET /file\_interface\_route

### Description

Query file interface routes.

### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">file_interface_route_instance</a> > array
206	Partial content of file interface route instance objects	< <a href="#">file_interface_route_instance</a> > array

## POST /file\_interface\_route

### Description

Create and configure a new file interface route. There are 3 route types Subnet, Default, and Host.

- The default route establishes a static route to a default gateway. To create a default route, provide only the default gateway IP address.
- The host route establishes a static route to a specific host. To create a host route, provide the IP address of the specific host in the destination field, and the gateway.
- The subnet route establishes a static route to a particular subnet. To create a subnet route, provide the IP address of the target subnet in the destination, the prefix length for that subnet, and the gateway.

### Parameters

Type	Name	Schema
Body	<b>body</b> <i>required</i>	<a href="#">file_interface_route_create</a>

## Responses

HTTP Code	Description	Schema
201	Created	<a href="#">create_response</a>
400	Invalid Request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## GET /file\_interface\_route/{id}

### Description

Query a specific file interface route for details.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the file interface route object.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">file_interface_route_instance</a>
404	Not Found	<a href="#">error_response</a>

## DELETE /file\_interface\_route/{id}

### Description

Delete file interface route.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the file interface route object.	string

## Responses

HTTP Code	Description	Schema
204	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## PATCH /file\_interface\_route/{id}

### Description

Modify file interface route settings.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the file interface route object.	string
Body	<b>body</b> <i>optional</i>		<a href="#">file_interface_route_modify</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## file\_kerberos

Use these resources to manage the Kerberos service for a NAS server. One Kerberos service object may be configured per NAS Server. Kerberos is a distributed authentication service designed to provide strong authentication with secret-key cryptography. It works on the basis of "tickets" that allow nodes communicating over a non-secure network to prove their identity in a secure manner. When configured to act as a secure NFS server, the NAS Server uses the RPCSEC\_GSS security

framework and Kerberos authentication protocol to verify users and services. You can configure a secure NFS environment for a multiprotocol NAS Server or one that supports Unix-only shares. In this environment, user access to NFS file systems is granted based on Kerberos principal names.

## GET /file\_kerberos

### Description

Query of the Kerberos service settings of NAS Servers.

### Responses

HTTP Code	Description	Schema
200	Success.	< <a href="#">file_kerberos_instance</a> > array
206	Partial content of file kerberos instance objects	< <a href="#">file_kerberos_instance</a> > array

## POST /file\_kerberos

### Description

Create a Kerberos configuration. The operation will fail if a Kerberos configuration already exists.

### Parameters

Type	Name	Schema
Body	<b>body</b> <i>required</i>	<a href="#">file_kerberos_create</a>

### Responses

HTTP Code	Description	Schema
201	Created	<a href="#">create_response</a>
400	Invalid Request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## GET /file\_kerberos/{id}

### Description

Query a specific Kerberos service settings of a NAS Server.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Kerberos service object.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">file_kerberos_instance</a>
404	Not Found	<a href="#">error_response</a>

## DELETE /file\_kerberos/{id}

### Description

Delete Kerberos configuration of a NAS Server.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the Kerberos service object.	string

### Responses

HTTP Code	Description	Schema
204	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## PATCH /file\_kerberos/{id}

### Description

Modify the Kerberos service settings of a NAS Server.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the Kerberos service object.	string
Body	<b>body</b> <i>required</i>		<a href="#">file_kerberos_modify</a>

### Responses

HTTP Code	Description	Schema
204	Success.	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /file\_kerberos/{id}/upload\_keytab

### Description

A keytab file is required for secure NFS service with a Linux or Unix Kerberos Key Distribution Center (KDC). The keytab file can be generated using the KDC server.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the Kerberos service object.	string
FormData	<b>body</b> <i>optional</i>		file

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## Consumes

- [multipart/form-data](#)

## GET /file\_kerberos/{id}/download\_keytab

### Description

Download previously uploaded keytab file for secure NFS service.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the Kerberos service object.	string

## Responses

HTTP Code	Description	Schema
200	Ok	<a href="#">file_kerberos_keytab_file</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## Produces

- [application/binary](#)

# file\_ldap

Use these resources to manage the Lightweight Directory Access Protocol (LDAP) settings for the NAS Server. You can configure one LDAP settings object per NAS Server. LDAP is an application protocol for querying and modifying directory services running on TCP/IP networks. LDAP provides central management for network authentication and authorization operations by helping to centralize user and group management across the network. A NAS Server can use LDAP as a Unix Directory Service to map users, retrieve netgroups, and build a Unix credential. When an initial LDAP configuration is applied, the system checks for the type of LDAP server. It can be an Active Directory schema or an RFC 2307 schema.

## GET /file\_ldap

### Description

List LDAP Service instances.

### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">file_ldap_instance</a> > array
206	Partial content of file ldap instance objects	< <a href="#">file_ldap_instance</a> > array

## POST /file\_ldap

### Description

Create an LDAP service on a NAS Server. Only one LDAP Service object can be created per NAS Server.

### Parameters

Type	Name	Description	Schema
Body	<b>body</b> <i>required</i>	Name of the LDAP service to create.	<a href="#">file_ldap_create</a>

### Responses



HTTP Code	Description	Schema
201	Created	<a href="#">create_response</a>
400	Invalid Request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## GET /file\_ldap/{id}

### Description

Query a specific NAS Server's LDAP settings object.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the LDAP settings object.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">file_ldap_instance</a>
404	Not Found	<a href="#">error_response</a>

## DELETE /file\_ldap/{id}

### Description

Delete a NAS Server's LDAP settings.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	LDAP settings object Id.	string

### Responses

HTTP Code	Description	Schema
204	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## PATCH /file\_ldap/{id}

### Description

Modify a NAS Server's LDAP settings object.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the LDAP settings object id.	string
Body	<b>body</b> <i>required</i>		<a href="#">file_ldap_modify</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /file\_ldap/{id}/upload\_config

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the LDAP settings object.	string

Type	Name	Description	Schema
<b>FormData</b>	<b>body</b> <i>required</i>		file

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## Consumes

- `multipart/form-data`

## GET /file\_ldap/{id}/download\_config

### Parameters

Type	Name	Description	Schema
<b>Path</b>	<b>id</b> <i>required</i>	Unique identifier of the LDAP settings object.	string

## Responses

HTTP Code	Description	Schema
200	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## Produces

- `document/text`

## POST /file\_ldap/{id}/upload\_certificate

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the LDAP settings object.	string
FormData	<b>body</b> <i>required</i>		file

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

### Consumes

- `multipart/form-data`

## GET /file\_ldap/{id}/download\_certificate

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the LDAP settings object.	string

### Responses

HTTP Code	Description	Schema
200	Success	No Content
404	Not Found	<a href="#">error_response</a>

HTTP Code	Description	Schema
422	Operation Failed	<a href="#">error_response</a>

### Produces

- [document/text](#)

## file\_ndmp

The Network Data Management Protocol (NDMP) provides a standard for backing up file servers on a network. NDMP allows centralized applications to back up file servers that run on various platforms and platform versions. NDMP reduces network congestion by isolating control path traffic from data path traffic, which permits centrally managed and monitored local backup operations. Storage systems support NDMP v2-v4 over the network. Direct-attach NDMP is not supported. This means that the tape drives need to be connected to a media server, and the NAS server communicates with the media server over the network. NDMP has an advantage when using multiprotocol file systems because it backs up the Windows ACLs as well as the UNIX security information.

### GET /file\_ndmp

#### Description

List configured NDMP service instances.

#### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">file_ndmp_instance</a> > array
206	Partial content of file ndmp instance objects	< <a href="#">file_ndmp_instance</a> > array

### POST /file\_ndmp

#### Description

Add an NDMP service configuration to a NAS server. Only one NDMP service object can be configured per NAS server.

## Parameters

Type	Name	Schema
Body	<b>body</b> <i>required</i>	<a href="#">file_ndmp_create</a>

## Responses

HTTP Code	Description	Schema
201	Created	<a href="#">create_response</a>
400	Invalid Request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## GET /file\_ndmp/{id}

### Description

Query an NDMP service configuration instance.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NDMP service object.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">file_ndmp_instance</a>
404	Not Found	<a href="#">error_response</a>

## DELETE /file\_ndmp/{id}

### Description

Delete an NDMP service configuration instance of a NAS Server.

## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NDMP service object.	string

## Responses

HTTP Code	Description	Schema
204	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## PATCH /file\_ndmp/{id}

### Description

Modify an NDMP service configuration instance.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NDMP service object.	string
Body	<b>body</b> <i>required</i>		<a href="#">file_ndmp_modify</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

# file\_nis

Use these resources to manage the Network Information Service (NIS) settings object for a NAS Server. One NIS settings object may be configured per NAS server. NIS consists of a directory service protocol for maintaining and distributing system configuration information, such as user and group information, hostnames, and such. The port for NIS Service is 111.

## GET /file\_nis

### Description

Query the NIS settings of NAS Servers.

### Responses

HTTP Code	Description	Schema
200	Success.	< <a href="#">file_nis_instance</a> > array
206	Partial content of file nis instance objects	< <a href="#">file_nis_instance</a> > array

## POST /file\_nis

### Description

Create a new NIS Service on a NAS Server. Only one NIS Setting object can be created per NAS Server.

### Parameters

Type	Name	Schema
Body	<b>body</b> <i>required</i>	<a href="#">file_nis_create</a>

### Responses

HTTP Code	Description	Schema
201	Created	<a href="#">create_response</a>
400	Invalid Request	<a href="#">error_response</a>



HTTP Code	Description	Schema
422	Operation Failed	<a href="#">error_response</a>

## GET /file\_nis/{id}

### Description

Query a specific NIS settings object of a NAS Server.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NIS object.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">file_nis_instance</a>
404	Not Found	<a href="#">error_response</a>

## DELETE /file\_nis/{id}

### Description

Delete NIS settings of a NAS Server.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NIS object.	string

### Responses

HTTP Code	Description	Schema
204	Success	No Content

HTTP Code	Description	Schema
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## PATCH /file\_nis/{id}

### Description

Modify the NIS settings of a NAS Server.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NIS object.	string
Body	<b>body</b> <i>required</i>		<a href="#">file_nis_modify</a>

### Responses

HTTP Code	Description	Schema
204	Success.	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## file\_system

Manage NAS file systems.

### GET /file\_system

#### Description

List file systems.

## Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">file_system_instance</a> > array
206	Partial content of file system instance objects	< <a href="#">file_system_instance</a> > array

## POST /file\_system

### Description

Create a file system.

### Parameters

Type	Name	Schema
Body	<b>body</b> <i>required</i>	<a href="#">file_system_create</a>

## Responses

HTTP Code	Description	Schema
201	Created	<a href="#">create_response</a>
400	Invalid Request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## GET /file\_system/{id}

### Description

Query a specific file system.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	File system id.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">file_system_instance</a>
404	Not Found	<a href="#">error_response</a>

## DELETE /file\_system/{id}

### Description

Delete a file system.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	File system id.	string

### Responses

HTTP Code	Description	Schema
204	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## PATCH /file\_system/{id}

### Description

Modify a file system.

## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	File system id.	string
Body	<b>body</b> <i>required</i>		<a href="#">file_system_modify</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /file\_system/{id}/clone

### Description

Create a clone of a file system.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	File system id.	string
Body	<b>body</b> <i>required</i>		<a href="#">file_system_clone</a>

### Responses

HTTP Code	Description	Schema
200	Created	<a href="#">file_system_clone_response</a>

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /file\_system/{id}/snapshot

### Description

Create a snapshot of a file system.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	File system id.	string
Body	<b>body</b> <i>optional</i>		<a href="#">file_system_snapshot</a>

### Responses

HTTP Code	Description	Schema
200	Created	<a href="#">file_system_snapshot_response</a>
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /file\_system/{id}/refresh

## Description

Refresh a snapshot of a file system. The content of the snapshot is replaced with the current content of the parent file system.

## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	File system snapshot id.	string

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /file\_system/{id}/restore

### Description

Restore from a snapshot of a file system.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	File system snapshot id.	string
Body	<b>body</b> <i>optional</i>		<a href="#">file_system_restore</a>

## Responses

HTTP Code	Description	Schema
200	Success (with backup snapshot)	<a href="#">file_system_restore_response</a>
204	Success (without backup snapshot)	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /file\_system/{id}/refresh\_quota

### Description

Refresh the actual content of tree and user quotas objects.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	File system id.	string

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## file\_tree\_quota

Tree quota settings in the storage system. A tree quota instance represents a quota limit applied to a specific directory tree in a file system.



## GET /file\_tree\_quota

### Description

List tree quota instances.

### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">file_tree_quota_instance</a> > array
206	Partial content of file tree quota instance objects	< <a href="#">file_tree_quota_instance</a> > array

## POST /file\_tree\_quota

### Description

Create a tree quota instance.

### Parameters

Type	Name	Schema
Body	<b>body</b> <i>required</i>	<a href="#">file_tree_quota_create</a>

### Responses

HTTP Code	Description	Schema
201	Created	<a href="#">create_response</a>
400	Invalid Request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## GET /file\_tree\_quota/{id}

### Description

Query a tree quota instance.

## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the tree quota.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">file_tree_quota_instance</a>
404	Not Found	<a href="#">error_response</a>

## DELETE /file\_tree\_quota/{id}

### Description

Delete a tree quota instance.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the tree quota.	string

## Responses

HTTP Code	Description	Schema
204	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## PATCH /file\_tree\_quota/{id}

### Description

Modify a tree quota instance.

## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the tree quota.	string
Body	<b>body</b> <i>required</i>		<a href="#">file_tree_quota_modify</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /file\_tree\_quota/{id}/refresh

### Description

Refresh the cache with the actual value of the tree quota.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the tree quota.	string

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>

HTTP Code	Description	Schema
422	Operation Failed	<a href="#">error_response</a>

## file\_user\_quota

User quota settings in the storage system. A user quota instance represents a quota limit applied to a user within a quota tree or a filesystem.

### GET /file\_user\_quota

#### Description

List user quota instances.

#### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">file_user_quota_instance</a> > array
206	Partial content of file user quota instance objects	< <a href="#">file_user_quota_instance</a> > array

### POST /file\_user\_quota

#### Description

Create a user quota instance.

#### Parameters

Type	Name	Schema
Body	<b>body</b> <i>required</i>	<a href="#">file_user_quota_create</a>

#### Responses

HTTP Code	Description	Schema
201	Created	<a href="#">create_response</a>
400	Invalid Request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## GET /file\_user\_quota/{id}

### Description

Query a user quota instance.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the file user quota.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">file_user_quota_instance</a>
404	Not Found	<a href="#">error_response</a>

## PATCH /file\_user\_quota/{id}

### Description

Modify a user quota instance.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the file user quota.	string
Body	<b>body</b> <i>required</i>		<a href="#">file_user_quota_modify</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /file\_user\_quota/{id}/refresh

### Description

Refresh the cache with the actual value of the user quota.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the file user quota.	string

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## file\_virus\_checker

Use these resource types to manage the virus checker service of a NAS server. A virus checker instance is created each time the anti-virus service is enabled on a NAS server. A configuration file (named viruschecker.conf) needs to be uploaded before enabling the anti-virus service. The cluster supports third-party anti-virus servers that perform virus scans and reports back to the storage system. For example, when an SMB client creates, moves, or modifies a file, the NAS server invokes the anti-virus server to scan the file for known viruses. During the scan any access to this file is

blocked. If the file does not contain a virus, it is written to the file system. If the file is infected, corrective action (fixed, removed or placed in quarantine) is taken as defined by the anti-virus server. You can optionally set up the service to scan the file on read access based on last access of the file compared to last update of the third-party anti-virus date.

## GET /file\_virus\_checker

### Description

Query all virus checker settings of the NAS Servers.

### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">file_virus_checker_instance</a> > array
206	Partial content of file virus checker instance objects	< <a href="#">file_virus_checker_instance</a> > array

## POST /file\_virus\_checker

### Description

Add a new virus checker setting to a NAS Server. Only one instance can be created per NAS Server. Workflow to enable the virus checker settings on the NAS Server is as follows: \n 1. Create a virus checker instance on NAS Server. 2. Download template virus checker configuration file. 3. Edit the configuration file with virus checker configuration details. 4. Upload the configuration file. 5. Enable the virus checker on the NAS Server.

### Parameters

Type	Name	Schema
Body	<b>body</b> <i>required</i>	<a href="#">file_virus_checker_create</a>

### Responses

HTTP Code	Description	Schema
201	Created	<a href="#">create_response</a>

HTTP Code	Description	Schema
400	Invalid Request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## GET /file\_virus\_checker/{id}

### Description

Query a specific virus checker setting of a NAS Server.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the virus checker instance.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">file_virus_checker_instance</a>
404	Not Found	<a href="#">error_response</a>

## DELETE /file\_virus\_checker/{id}

### Description

Delete virus checker settings of a NAS Server.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the virus checker instance.	string

### Responses



HTTP Code	Description	Schema
204	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## PATCH /file\_virus\_checker/{id}

### Description

Modify the virus checker settings of a NAS Server.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the virus checker instance.	string
Body	<b>body</b> <i>required</i>		<a href="#">file_virus_checker_modify</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /file\_virus\_checker/{id}/upload\_config

### Description

Upload a virus checker configuration file containing the virus checker configuration settings.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the virus checker instance.	string
FormData	<b>body</b> <i>optional</i>	Upload virus checker configuration file.	file

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## Consumes

- `multipart/form-data`

## GET /file\_virus\_checker/{id}/download\_config

### Description

Download a virus checker configuration file containing the template or the actual (if already uploaded) virus checker configuration settings.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the virus checker instance.	string

## Responses

HTTP Code	Description	Schema
200	Ok	No Content
404	Not Found	<a href="#">error_response</a>

HTTP Code	Description	Schema
422	Operation Failed	<a href="#">error_response</a>

### Produces

- [document/text](#)

## hardware

This provides the hardware component inventory of the system.

### GET /hardware

#### Description

List hardware components.

#### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">hardware_instance</a> > array
206	Partial content of hardware instance objects	< <a href="#">hardware_instance</a> > array

### Produces

- [application/json](#)

### GET /hardware/{id}

#### Description

Get a specific hardware component instance.

#### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique id of hardware component to get.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">hardware_instance</a>
404	Not Found	<a href="#">error_response</a>

## Produces

- `application/json`

## PATCH /hardware/{id}

### Description

Modify a hardware instance.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	The hardware component to modify.	string
Body	<b>body</b> <i>required</i>		<a href="#">hardware_modify</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## Consumes

- `application/json`

## Produces

- `application/json`

## POST /hardware/{id}/drive\_repurpose

### Description

A drive that has been used in a different appliance will be locked for use only in that appliance. This operation will allow a locked drive to be used in the current appliance. All data on the drive will become unrecoverable. It will fail if the drive is not locked to a different appliance.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Identifier of the drive to repurpose.	string
Body	<b>body</b> <i>required</i>	Fields required to repurpose the specified drive.	<a href="#">hardware_drive_repurpose</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## Produces

- `application/json`

## host

Manage hosts that access the cluster.

## GET /host

### Description

List host information.

## Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">host_instance</a> > array
206	Partial content of host instance objects	< <a href="#">host_instance</a> > array

## Produces

- [application/json](#)

## POST /host

### Description

Add a host.

### Parameters

Type	Name	Schema
Body	<b>body</b> <i>required</i>	<a href="#">host_create</a>

## Responses

HTTP Code	Description	Schema
201	Success	<a href="#">create_response</a>
400	Invalid Input	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## Consumes

- [application/json](#)

## Produces

- [application/json](#)

## GET /host/{id}

### Description

Get details about a specific host by id.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique id of the host.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">host_instance</a>
404	Not Found	<a href="#">error_response</a>

### Produces

- [application/json](#)

## DELETE /host/{id}

### Description

Delete a host. Delete fails if host is attached to a volume or consistency group.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique id of the host.	string
Body	<b>body</b> <i>optional</i>		<a href="#">host_delete</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content

HTTP Code	Description	Schema
400	Invalid Input	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

### Produces

- [application/json](#)

## PATCH /host/{id}

### Description

Operation that can be performed are modify name, modify description, remove initiator(s) from host, add initiator(s) to host, update existing initiator(s) with chap username/password. This will only support one of add, remove and update initiator operations in a single request.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique id of the host.	string
Body	<b>body</b> <i>required</i>		<a href="#">host_modify</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Input	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

### Produces

- [application/json](#)



## POST /host/{id}/attach

### Description

Attach host to volume.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique id of the host.	string
Body	<b>body</b> <i>required</i>		<a href="#">host_attach</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Input	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

### Produces

- [application/json](#)

## POST /host/{id}/detach

### Description

Detach host from volume.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique id of the host.	string
Body	<b>body</b> <i>required</i>		<a href="#">host_detach</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Input	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## Produces

- `application/json`

# host\_group

Manage host groups. A host group is a mechanism to provision hosts and volumes to be consistent across the Cyclone cluster. Operations that can be performed include, creating or deleting a host group, modifying host group(i.e. adding or removing hosts from a host group).

## GET /host\_group

### Description

List host groups.

## Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">host_group_instance</a> > array
206	Partial content of host group instance objects	< <a href="#">host_group_instance</a> > array

## Produces

- `application/json`

## POST /host\_group

### Description

Create a host group.

### Parameters

Type	Name	Schema
Body	<b>body</b> <i>required</i>	<a href="#">host_group_create</a>

### Responses

HTTP Code	Description	Schema
201	Created	<a href="#">create_response</a>
400	Operation Failed	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

### Consumes

- `application/json`

### Produces

- `application/json`

## GET /host\_group/{id}

### Description

Get details about a specific host group.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique id of the host group.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">host_group_instance</a>
404	Not Found	<a href="#">error_response</a>

### Produces

- `application/json`

## DELETE /host\_group/{id}

### Description

Delete a host group. Delete fails if host group is attached to a volume.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique id of the host group.	string

### Responses

HTTP Code	Description	Schema
204	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

### Produces

- `application/json`

## PATCH /host\_group/{id}

### Description

Operations that can be performed are modify name, remove host(s) from host group, add host(s) to host group. Modify request will only support either a `add_host(s)` or `remove_host(s)` at a time along with modifying host name

## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique id of the host group.	string
Body	<b>body</b> <i>required</i>		<a href="#">host_group_modify</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Operation Failed	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## Produces

- `application/json`

## POST /host\_group/{id}/attach

### Description

Attach host group to volume.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique id of the host group.	string
Body	<b>body</b> <i>required</i>		<a href="#">host_group_attach</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Input	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

### Produces

- `application/json`

## POST /host\_group/{id}/detach

### Description

Detach host group from volume.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique id of the host group.	string
Body	<b>body</b> <i>required</i>		<a href="#">host_group_detach</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Input	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

### Produces

- `application/json`

# host\_virtual\_volume\_mapping

Virtual volume mapping details.

## GET /host\_virtual\_volume\_mapping

### Description

Query associations between a virtual volume and the host(s) it is attached to.

### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">host_virtual_volume_mapping_instance</a> > array
206	Partial content of host virtual volume mapping instance objects	< <a href="#">host_virtual_volume_mapping_instance</a> > array

## GET /host\_virtual\_volume\_mapping/{id}

### Description

Query a specific virtual volume mapping.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the virtual volume mapping.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">host_virtual_volume_mapping_instance</a>

HTTP Code	Description	Schema
404	Not Found	<a href="#">error_response</a>

## host\_volume\_mapping

Storage cluster REST API definition.

### GET /host\_volume\_mapping

#### Description

Query associations between a volume and the host or host group it is attached to.

#### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">host_volume_mapping_instance</a> > array
206	Partial content of host volume mapping instance objects	< <a href="#">host_volume_mapping_instance</a> > array

### GET /host\_volume\_mapping/{id}

#### Description

Query a specific host volume mapping.

#### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the host volume mapping.	string

#### Responses



HTTP Code	Description	Schema
200	Success	<a href="#">host_volume_mapping_instance</a>
404	Not Found	<a href="#">error_response</a>

## import\_host\_initiator

Use these resource types to manage import host initiators. Once import host is configured, host initiators can be queried and corresponding mapped volumes can be imported.

### GET /import\_host\_initiator

#### Description

Query import host initiators.

#### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">import_host_initiator_instance</a> > array
206	Partial content of import host initiator instance objects	< <a href="#">import_host_initiator_instance</a> > array

### GET /import\_host\_initiator/{id}

#### Description

Query a specific import host initiator instance.

#### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the import host initiator to query.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">import_host_initiator_instance</a>
404	Not Found	<a href="#">error_response</a>

## import\_host\_system

Use these resource types to manage import host systems. Import host enables communication with multipathing software on the host system to perform import operations. While configuring the `import_host_system` if the host is not present a new Host will be created. If Host is already present, the same Host will be updated with the `import_host_system` details. Also, `import_host_system` supports FC and iSCSI connections between Host and source arrays. So for a single `import_host_system` which supports both FC and iSCSI; there would be two Hosts entries for representing the FC and iSCSI connections.

### GET /import\_host\_system

#### Description

Query import host systems that are attached to volumes.

#### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">import_host_system_instance</a> array
206	Partial content of import host system instance objects	<a href="#">import_host_system_instance</a> array

### POST /import\_host\_system

#### Description

Add an import host system so that it can be mapped to a volume. Before mapping an import host system, ensure that a host agent is installed. Host agents can be installed on Linux, Windows, and ESXi host systems only. While adding `import_host_system` if Host is not present a new Host shall be

created. If Host is already present, the same Host will be updated with the import\_host\_system details.

### Parameters

Type	Name	Description	Schema
Body	<b>request</b> <i>required</i>	Request parameters.	<a href="#">import_host_system_create</a>

### Responses

HTTP Code	Description	Schema
201	Created	<a href="#">create_response</a>
400	Invalid Request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## GET /import\_host\_system/{id}

### Description

Query a specific import host system instance.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the import host system to query.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">import_host_system_instance</a>
404	Not Found	<a href="#">error_response</a>

## DELETE /import\_host\_system/{id}

## Description

Delete an import host system. You cannot delete an import host system if there are import sessions active in the system referencing the import host system instance.

## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the import host system	string

## Responses

HTTP Code	Description	Schema
204	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /import\_host\_system/{id}/refresh

### Description

Refresh the details of a specific import host system. Use this operation when there is a change to the import host or import host volumes.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the import host system for which to refresh details.	string

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>

HTTP Code	Description	Schema
422	Operation Failed	<a href="#">error_response</a>

## import\_host\_volume

Use these resource types to manage import host volumes. Host volumes are source storage volumes that are mapped to the host systems for application access. Once import host is configured, host volumes can be queried and then corresponding volumes can be imported.

### GET /import\_host\_volume

#### Description

Query import host volumes.

#### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">import_host_volume_instance</a> > array
206	Partial content of import host volume instance objects	< <a href="#">import_host_volume_instance</a> > array

### GET /import\_host\_volume/{id}

#### Description

Query a specific import host volume instance.

#### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the import host volume to query.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">import_host_volume_instance</a>
404	Not Found	<a href="#">error_response</a>

## import\_psgroup

Use these resource types to discover the Peer Storage Group (PS Group) volumes that can be imported to PowerStore.

### GET /import\_psgroup

#### Description

Query PS Group storage arrays.

#### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">import_psgroup_instance</a> > array
206	Partial content of import psgroup instance objects	< <a href="#">import_psgroup_instance</a> > array

### GET /import\_psgroup/{id}

#### Description

Query a specific PS Group storage array.

#### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the PS Group.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">import_psgroup_instance</a>
404	Not Found	<a href="#">error_response</a>

## POST /import\_psgroup/{id}/discover

### Description

Discover the importable volumes and snapshot schedules in the PS Group.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the PS Group.	string

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## import\_psgroup\_volume

Use these resource types to discover the Peer Storage Group (PS Group) volumes that can be imported to PowerStore.

## GET /import\_psgroup\_volume

### Description

Query PS Group volumes.

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">import_psgroup_volume_instance</a> > array
206	Partial content of import psgroup volume instance objects	<a href="#">import_psgroup_volume_instance</a> > array

## GET /import\_psgroup\_volume/{id}

### Description

Query a specific PS Group volume.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the PS Group volume.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">import_psgroup_volume_instance</a>
404	Not Found	<a href="#">error_response</a>

## POST /import\_psgroup\_volume/{id}/import\_snapshot\_schedules

### Description

Return the snapshot schedules for a PS Group volume.

### Parameters



Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the PS Group volume.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">import_psgroup_volume_import_snapshot_schedules_response</a>
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## import\_session

Use the `import_session` resource type to initiate and manage the migration of volumes and consistency groups from a heritage Dell EMC storage system to a PowerStore storage system. The import is non-disruptive to hosts that access the volume during the import. The import process runs as a background job. Clients should poll the job status until the import completes. Note: In these descriptions, LUNs are referred to as volumes and storage arrays are referred to as storage systems.

### GET /import\_session

#### Description

Query import sessions.

#### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">import_session_instance</a> > array

HTTP Code	Description	Schema
206	Partial content of import session instance objects	< <a href="#">import_session_instance</a> > array

## POST /import\_session

### Description

Create a new import session. The source storage system and hosts that access the volumes or consistency groups must be added prior to creating an import session. The volumes or consistency groups must be in a migration-ready state.

### Parameters

Type	Name	Schema
Body	<b>body</b> <i>required</i>	<a href="#">import_session_create</a>

### Responses

HTTP Code	Description	Schema
201	Created	<a href="#">create_response</a>
400	Invalid Request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## GET /import\_session/{id}

### Description

Query a specific session.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the import session	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">import_session_in stance</a>
404	Not Found	<a href="#">error_response</a>

## DELETE /import\_session/{id}

### Description

Delete an import session that is in a Completed, Failed, or Cancelled state. Delete removes the historical record of the import. To stop active import sessions, use the Cancel operation. You can delete the import session after cancelling it.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the import session	string

## Responses

HTTP Code	Description	Schema
204	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## PATCH /import\_session/{id}

### Description

Modify the scheduled date and time of the specified import session.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the import session.	string

Type	Name	Description	Schema
Body	<b>body</b> <i>required</i>		<a href="#">import_session_modify</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /import\_session/{id}/cutover

### Description

Commit an import session that is in a Ready\_For\_Cutover state. When the import session is created with the `automatic_cutover` attribute set to `false`, you must use the Cutover operation to complete the import. Until the cutover is complete, PowerStore forwards IO to the source volume to keep it in sync with all host IOs. You can cancel the import during this state if you want to continue using the source volume.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of an import session	string

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>

HTTP Code	Description	Schema
422	Operation Failed	<a href="#">error_response</a>

## POST /import\_session/{id}/cancel

### Description

Cancel an active import session. Cancel is allowed when the import is in a Scheduled, Queued, Copy\_In\_Progress, or Ready\_For\_Cutover state. After a successful cancellation, the host is mapped to original source volume, all paths are cleaned up, and the import state is Cancelled. The import can be attempted again in the future. In most cases, the Cancel operation gracefully rolls back the import based on the source and host error responses. Use the force option to stop the import job irrespective of whether the storage system or hosts have issues. When the force option is true, the import process tries to reach out to the source and host to gracefully terminate the import. If either are not reachable or if the request fails, the import is terminated without rolling back.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the import session	string
Body	<b>body</b> <i>optional</i>		<a href="#">import_session_cancel</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /import\_session/{id}/pause

### Description

Pauses an ongoing import session. When this occurs, the background data copy stops, but IO to the source still occurs. Pause is only supported when the import job is in a in Copy\_In\_Progress state.

You can resume or cancel the paused import.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the import session	string

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /import\_session/{id}/resume

### Description

Resumes the paused import session. The background data copy continues from where it was stopped. Resume is only applicable when the import in a Paused state.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the import session	string

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>

HTTP Code	Description	Schema
422	Operation Failed	<a href="#">error_response</a>

## POST /import\_session/{id}/cleanup

### Description

Clean up an import session that is in Cleanup\_Required state and requires user intervention to revert the source volume to its pre-import state as part of the recovery procedure to restore host IO operations.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the import session.	string

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## import\_storage\_center

Use these resource types to discover the Storage Center (SC) volumes and consistency groups that can be imported to PowerStore.

### GET /import\_storage\_center

#### Description

Query SC arrays.

#### Responses

HTTP Code	Description	Schema
200	Success	< import_storage_center_instance > array
206	Partial content of import storage center instance objects	< import_storage_center_instance > array

## GET /import\_storage\_center/{id}

### Description

Query a specific SC array.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the SC array.	string

### Responses

HTTP Code	Description	Schema
200	Success	import_storage_center_instance
404	Not Found	error_response

## POST /import\_storage\_center/{id}/discover

### Description

Discover the importable volumes and snapshot profiles in the SC array.

### Parameters



Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the SC array.	string

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

# import\_storage\_center\_consistency\_group

Use these resource types to discover the Storage Center (SC) volumes and consistency groups that can be imported to PowerStore.

## GET /import\_storage\_center\_consistency\_group

### Description

Query SC consistency groups.

### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">import_storage_center_consistency_group_instance</a> > array
206	Partial content of import storage center consistency group instance objects	< <a href="#">import_storage_center_consistency_group_instance</a> > array

## GET /import\_storage\_center\_consistency\_group/{id}

### Description

Query a specific SC consistency group.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the SC consistency group.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">import_storage_center_consistency_group_instance</a>
404	Not Found	<a href="#">error_response</a>

## POST

## /import\_storage\_center\_consistency\_group/{id}/import\_snapshot\_profiles

### Description

Return the snapshot profiles of an SC consistency group.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the SC consistency group.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">import_storage_center_consistency_group_import_snapshot_profiles_response</a>

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed.	<a href="#">error_response</a>

## import\_storage\_center\_volume

Use these resource types to discover the Storage Center (SC) volumes that can be imported to PowerStore.

### GET /import\_storage\_center\_volume

#### Description

Query SC volumes.

#### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">import_storage_center_volume_instance</a> > array
206	Partial content of import storage center volume instance objects	< <a href="#">import_storage_center_volume_instance</a> > array

### GET /import\_storage\_center\_volume/{id}

#### Description

Query a specific SC volume.

#### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the SC volume.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">import_storage_center_volume_instance</a>
404	Not Found	<a href="#">error_response</a>

## POST /import\_storage\_center\_volume/{id}/import\_snapshot\_profiles

### Description

Return the snapshot profiles of an SC volume.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the SC volume.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">import_storage_center_volume_import_snapshot_profiles_response</a>
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed.	<a href="#">error_response</a>

# import\_unity

Use this resource type to discover the Unity system that is a source storage system for import

## GET /import\_unity

### Description

Query Unity storage systems.

### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">import_unity_instance</a> > array
206	Partial content of import unity instance objects	< <a href="#">import_unity_instance</a> > array

## GET /import\_unity/{id}

### Description

Query a specific Unity storage system.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the Unity storage system.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">import_unity_instance</a>
404	Not Found	<a href="#">error_response</a>

## POST /import\_unity/{id}/discover

### Description

Discover the importable volumes and consistency groups in the Unity storage system.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the Unity storage system.	string

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## import\_unity\_consistency\_group

Use this resource type to discover the Unity consistency groups that can be imported to PowerStore.

### GET /import\_unity\_consistency\_group

#### Description

Query Unity consistency groups.

#### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">import_unity_consistency_group_instance</a> > array

HTTP Code	Description	Schema
206	Partial content of import unity consistency group instance objects	< <a href="#">import_unity_consistency_group_instance</a> > array

## GET /import\_unity\_consistency\_group/{id}

### Description

Query a specific Unity consistency group.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the Unity consistency group.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">import_unity_consistency_group_instance</a>
404	Not Found	<a href="#">error_response</a>

## POST /import\_unity\_consistency\_group/{id}/import\_snapshot\_schedules

### Description

Return the snapshot schedules associated with the specified Unity consistency group.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the Unity consistency group.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">import_unity_consistency_group_import_snapshot_schedules_response</a>
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## import\_unity\_volume

Use this resource type to discover the Unity volumes that can be imported to PowerStore.

### GET /import\_unity\_volume

#### Description

Query Unity volumes.

#### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">import_unity_volume_instance</a> > array
206	Partial content of import unity volume instance objects	< <a href="#">import_unity_volume_instance</a> > array

### GET /import\_unity\_volume/{id}

#### Description

Query a specific Unity volume.



## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the Unity volume.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">import_unity_volume_instance</a>
404	Not Found	<a href="#">error_response</a>

## POST /import\_unity\_volume/{id}/import\_snapshot\_schedules

### Description

Return the snapshot schedules associated with the specified Unity volume.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the Unity volume.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">import_unity_volume_import_snapshot_schedules_response</a>
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

# import\_vnx\_array

Use these resource types to discover the VNX storage system that can be imported to PowerStore.

## GET /import\_vnx\_array

### Description

Query VNX storage systems.

### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">import_vnx_array_instance</a> > array
206	Partial content of import vnx array instance objects	< <a href="#">import_vnx_array_instance</a> > array

## GET /import\_vnx\_array/{id}

### Description

Query a specific VNX storage system.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of a VNX storage system.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">import_vnx_array_instance</a>
404	Not Found	<a href="#">error_response</a>

## POST /import\_vnx\_array/{id}/discover

### Description

Discover the importable volumes and consistency groups in a VNX storage system.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the VNX storage system.	string

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## import\_vnx\_consistency\_group

Use this resource type to show the VNX consistency groups that can be imported to PowerStore.

### GET /import\_vnx\_consistency\_group

### Description

Query VNX consistency groups.

### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">import_vnx_consistency_group_instance</a> > array

HTTP Code	Description	Schema
206	Partial content of import vnx consistency group instance objects	< <a href="#">import_vnx_consistency_group_instance</a> > array

## GET /import\_vnx\_consistency\_group/{id}

### Description

Query a specific VNX consistency group.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of a VNX consistency group.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">import_vnx_consistency_group_instance</a>
404	Not Found	<a href="#">error_response</a>

## import\_vnx\_volume

Use this resource type to show the VNX volumes and that can be imported to PowerStore.

## GET /import\_vnx\_volume

### Description

Query VNX volumes.

### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">import_vnx_volume_instance</a> > array
206	Partial content of import vnx volume instance objects	< <a href="#">import_vnx_volume_instance</a> > array

## GET /import\_vnx\_volume/{id}

### Description

Query a specific VNX volume.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the VNX volume.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">import_vnx_volume_instance</a>
404	Not Found	<a href="#">error_response</a>

## ip\_pool\_address

Use these resource types to scale and reconfigure the IP networks in a cluster.

### GET /ip\_pool\_address

### Description

Query configured IP addresses.

## Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">ip_pool_address_instance</a> > array
206	Partial content of ip pool address instance objects	< <a href="#">ip_pool_address_instance</a> > array

## GET /ip\_pool\_address/{id}

### Description

Query a specific IP address.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of a configured IP address.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">ip_pool_address_instance</a>
404	Not Found	<a href="#">error_response</a>

### Consumes

- `application/json`

### Produces

- `application/json`

## ip\_port

Use these resource types to manage the cluster-wide configuration of virtual IP ports, bonds, and virtual Ethernet ports.

## GET /ip\_port

### Description

Query IP port configurations.

### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">ip_port_instance</a> > array
206	Partial content of ip port instance objects	< <a href="#">ip_port_instance</a> > array

## GET /ip\_port/{id}

### Description

Query a specific IP port configuration.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the IP port.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">ip_port_instance</a>
404	Not Found	<a href="#">error_response</a>

### Consumes

- [application/json](#)

### Produces

- [application/json](#)

## PATCH /ip\_port/{id}

### Description

Modify IP port parameters.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the IP port.	string
Body	<b>body</b> <i>optional</i>		<a href="#">ip_port_modify</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

### Consumes

- [application/json](#)

### Produces

- [application/json](#)

## job

Use this resource type for tracking an operation's progress and status.

## GET /job

### Description

Query jobs.



## Responses

HTTP Code	Description	Schema
200	An array of jobs	< <a href="#">job_instance</a> > array
206	Partial content of job instance objects	< <a href="#">job_instance</a> > array

## GET /job/{id}

### Description

Query a specific job.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique id of the job.	string

## Responses

HTTP Code	Description	Schema
200	A single job.	<a href="#">job_instance</a>
404	Not Found	<a href="#">error_response</a>

## keystore\_archive

Use this resource to generate and download an encryption keystore archive file.

## POST /keystore\_archive/regenerate

### Description

Creates a new encryption keystore archive file to replace the existing archive file, which includes the individual keystore backup files from each appliance in the cluster. Once complete, the command response includes a Uniform Resource Identifier, which can be used in a subsequent GET request to download the keystore backup archive file. This request is valid only on systems where Data at Rest Encryption is enabled and is applicable only on systems that support Data at Rest Encryption.

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">keystore_archive_regenerate_response</a>
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## Produces

- [application/json](#)

## GET /keystore\_archive/{filename}

### Description

Download a keystore backup archive file that was previously generated by a successful `/api/rest/keystore_archive/regenerate` POST command. This resource type collection query does not support filtering, sorting or pagination

### Parameters

Type	Name	Description	Schema
Path	<b>filename</b> <i>required</i>	Filename is the last component in the URI path and becomes the filename of the downloaded file.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">keystore_archive_instance</a>
404	Not Found.	<a href="#">error_response</a>

## Consumes

- [application/json](#)

## Produces

- `application/zip`

# license

Use this resource type to view and manage the software license for the cluster.

Licenses are normally automatically retrieved when the system is configured. If the system cannot reach the DellEMC Software Licensing Central, it will retry daily during the 30-day trial period. After the trial period, the system will continue to operate but no new provisioning operations will be allowed.

When an appliance is added to the cluster, the process starts over, and the cluster license will need to be updated, either automatically, or manually if network connectivity to the Software Licensing Central is not available.

If the system lacks network connectivity to reach the Software Licensing Central, an alert will be raised that indicates when the trial period will expire. For sites that do not allow connection to the Software Licensing Central, there is an alternate mechanism to license the cluster: 1. Get the license activation file from the system. 2. Log on to the DellEMC Software Licensing Central as a customer and provide the activation file. You will receive a license file back. 3. Upload the license file to the system.

## GET /license

### Description

Query license information for the cluster. There is always one license instance.

### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">license_instance</a> > array
206	Partial content of license instance objects	< <a href="#">license_instance</a> > array

## GET /license/{id}

### Description

Query the specific license information for the cluster.

## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the license information instance.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">license_instance</a>
404	Not Found	<a href="#">error_response</a>

## POST /license/upload

### Description

Upload a software license to install the license on the cluster.

### Parameters

Type	Name	Description	Schema
FormData	<b>license_file</b> <i>optional</i>	The file to upload containing the software license to install the license on the cluster.	file

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

### Consumes

- `multipart/form-data`

## POST /license/retrieve

## Description

Retrieve the license directly from the DellEMC Software Licensing Central. This runs automatically when the cluster is configured, and if it fails, once per day during the trial period. This allows a manual attempt, normally after attempting to correct the network connectivity issue preventing the automatic retrieval.

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

# local\_user

Use this resource type to manage local user accounts.

## GET /local\_user

### Description

Query all local user account instances. This resource type collection query does not support filtering, sorting or pagination

### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">local_user_instance</a> > array
206	Partial content of local user instance objects	< <a href="#">local_user_instance</a> > array

## POST /local\_user

### Description

Create a new local user account. Any existing local user with either an administrator or a security administrator role can create a new local user account. By default, a new local\_user account is NOT

locked.

### Parameters

Type	Name	Schema
Body	<b>body</b> <i>required</i>	<a href="#">local_user_create</a>

### Responses

HTTP Code	Description	Schema
201	Created	<a href="#">create_response</a>
400	Invalid Request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## GET /local\_user/{id}

### Description

Query a specific local user account instance using an unique identifier.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the local user account.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">local_user_instance</a>
404	Not Found	<a href="#">error_response</a>

## DELETE /local\_user/{id}

## Description

Delete a local user account instance using the unique identifier. You cannot delete the default "admin" account or the account you are currently logged into. Any local user account with Administrator or Security Administrator role can delete any other local user account except the default "admin" account.

## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the local user account to be deleted.	string

## Responses

HTTP Code	Description	Schema
204	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## PATCH /local\_user/{id}

### Description

Modify a property of a local user account using the unique identifier. You cannot modify the default "admin" user account.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the local user account to be modified.	string
Body	<b>body</b> <i>required</i>		<a href="#">local_user_modify</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content

HTTP Code	Description	Schema
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## login\_session

Use these resource types to manage sessions, roles, and system security configurations.

### GET /login\_session

#### Description

Obtain the login session for the current user. This resource type collection query does not support filtering, sorting or pagination

#### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">login_session_instance</a> > array
206	Partial content of login session instance objects	< <a href="#">login_session_instance</a> > array

#### Produces

- `application/json`

## logout

Use these resource types to manage sessions, roles, and system security configurations.

### POST /logout

#### Description

Log out the current user.



## Responses

HTTP Code	Description	Schema
201	Success	<a href="#">create_response</a>
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## Produces

- [application/json](#)

# maintenance\_window

Use this resource type to manage the maintenance window configuration for each appliance. The maintenance window allows you to set a time period during which alerts do not generate any notifications. After the specified interval (1-48 hours), the maintenance window will get automatically disabled and any alerts that are still outstanding will generate notifications. Specifically, anything that would have generated a notification but didn't do so because of the maintenance window and that remains outstanding after the window closes, will result in a notification when the window is disabled.

## GET /maintenance\_window

### Description

Query the maintenance window configurations.

## Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">maintenance_window_instance</a> > array
206	Partial content of maintenance window instance objects	< <a href="#">maintenance_window_instance</a> > array

## GET /maintenance\_window/{id}

### Description

Query one appliance maintenance window configuration.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the maintenance window configuration.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">maintenance_window_instance</a>
404	Not Found	<a href="#">error_response</a>

## PATCH /maintenance\_window/{id}

### Description

Configure maintenance window.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the maintenance window configuration.	string
Body	<b>body</b> <i>required</i>		<a href="#">maintenance_window_modify</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>

HTTP Code	Description	Schema
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## metrics

REST APIs Use these resource types to query historical metric data.

### POST /metrics/generate

#### Description

Retrieves metrics for specified type.

#### Parameters

Type	Name	Schema
Body	<b>body</b> <i>required</i>	<a href="#">metrics_generate</a>

#### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">metrics_generate_response</a> > array
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

#### Produces

- [application/json](#)

## migration\_recommendation

The system produces migration recommendations periodically or upon request, based on capacity usage and recent performance. A recommendation can then be implemented using the

create\_migration\_sessions action, performing any necessary rescans on attached hosts, and then using start\_migration\_sessions.

## GET /migration\_recommendation

### Description

Get migration recommendations.

### Responses

HTTP Code	Description	Schema
200	Migration recommendation objects	< migration_recommendation_instance > array
206	Partial content of migration recommendation instance objects	< migration_recommendation_instance > array

## POST /migration\_recommendation

### Description

Generate a recommendation for redistributing storage utilization between appliances.

### Parameters

Type	Name	Schema
Body	<b>body</b> <i>required</i>	migration_recommendation_create

### Responses

HTTP Code	Description	Schema
201	Success	create_response
400	Invalid request	error_response
422	Invalid Request	error_response

## GET /migration\_recommendation/{id}

### Description

Get a single migration recommendation.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique ID of the migration recommendation.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">migration_recommendation_instance</a>
404	Not found	<a href="#">error_response</a>

## DELETE /migration\_recommendation/{id}

### Description

Delete a migration recommendation.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique ID of the migration recommendation.	string

### Responses

HTTP Code	Description	Schema
204	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Invalid Request	<a href="#">error_response</a>

## POST /migration\_recommendation/{id}/create\_migration\_sessions

### Description

Create the migration sessions to implement a migration recommendation. If the response contains a list of hosts to rescan, those hosts must be rescanned before starting the sessions or the host(s) may lose access to the data when the migration completes.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique ID of the migration recommendation.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">migration_recommendation_create_migration_sessions_response</a>
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Invalid Request	<a href="#">error_response</a>

## POST /migration\_recommendation/{id}/start\_migration\_sessions

### Description

Start previously created migration sessions for recommendation. Ensure that any rescans specified in the create\_migration\_sessions response have been done before using this to start the sessions. Failure to do may result in data unavailability and/or data loss.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique ID of the migration recommendation.	string

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Invalid Request	<a href="#">error_response</a>

## migration\_session

Manage migration sessions.

### GET /migration\_session

#### Description

Query migration sessions.

#### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">migration_session_instance</a> > array

### POST /migration\_session

#### Description

Create a new migration session. For virtual volumes (vVols), the background copy is completed during this phase and the ownership of the vVol is transferred to the new appliance. For volumes and application groups, a migration session is created in this phase and no background copy is performed until either the sync or cutover operation is invoked. There are no interruptions to any services during this phase.

#### Parameters

Type	Name	Description	Schema
Body	<b>body</b> <i>required</i>	Parameters to create a migration session.	<a href="#">migration_session_create</a>

## Responses

HTTP Code	Description	Schema
201	Created	<a href="#">migration_session_create_response</a>
400	Invalid Request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## Produces

- `application/json`

## GET /migration\_session/{id}

### Description

Query a specific migration session.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the migration session.	string

## Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">migration_session_instance</a> > array
404	Not Found	<a href="#">error_response</a>



## DELETE /migration\_session/{id}

### Description

Delete a migration session. With the force option, a migration session can be deleted regardless of its state. All background activity is canceled before deleting the session.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the migration session.	string
Body	<b>body</b> <i>optional</i>	Parameters for a deletion.	<a href="#">migration_session_delete</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /migration\_session/{id}/pause

### Description

Pause a migration session. Only migration sessions in the synchronizing state can be paused.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the migration session.	string

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /migration\_session/{id}/resume

### Description

Resume a paused migration session. You cannot resume a migration session in the failed state.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the migration session.	string

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /migration\_session/{id}/sync

### Description

Synchronize a migration session. During this phase, the majority of the background copy is completed and there are no interruptions to any services. Sync can be run multiple times to reduce the amount of data that must be copied during the cutover.

## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the migration session.	string
Body	<b>body</b> <i>required</i>	Parameters for synchronizing a migration session.	<a href="#">migration_session_sync</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /migration\_session/{id}/cutover

### Description

Final phase of the migration, when ownership of the volume, vVol, or volume group is transferred to the new appliance.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the migration session.	string

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>

HTTP Code	Description	Schema
422	Operation Failed	<a href="#">error_response</a>

## nas\_server

Use these resource types to manage NAS servers. NAS servers are software components used to transfer data and provide the connection ports for hosts to access file-based storage resources. NAS servers are independent from each other.

### GET /nas\_server

#### Description

Query all NAS servers.

#### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">nas_server_instance</a> > array
206	Partial content of nas server instance objects	< <a href="#">nas_server_instance</a> > array

### POST /nas\_server

#### Description

Create a NAS server.

#### Parameters

Type	Name	Schema
Body	<b>body</b> <i>required</i>	<a href="#">nas_server_create</a>

#### Responses

HTTP Code	Description	Schema
201	Created	<a href="#">create_response</a>
400	Invalid Request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## GET /nas\_server/{id}

### Description

Query a specific NAS server.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NAS server.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">nas_server_instance</a>
404	Not Found	<a href="#">error_response</a>

## DELETE /nas\_server/{id}

### Description

Delete a NAS server.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NAS server.	string
Body	<b>body</b> <i>optional</i>		<a href="#">nas_server_delete</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## PATCH /nas\_server/{id}

### Description

Modify the settings of a NAS server.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NAS server.	string
Body	<b>body</b> <i>required</i>		<a href="#">nas_server_modify</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /nas\_server/{id}/ping

### Description

Ping destination from NAS server.

## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NAS server.	string
Body	<b>body</b> <i>required</i>		<a href="#">nas_server_ping</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /nas\_server/{id}/upload/passwd

### Description

Upload NAS server passwd file.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NAS server.	string
FormData	<b>body</b> <i>optional</i>	Upload NAS server passwd file.	file

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>

HTTP Code	Description	Schema
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

### Consumes

- [multipart/form-data](#)

## GET /nas\_server/{id}/download/passwd

### Description

Download a NAS server passwd file containing template or the actual (if already uploaded) passwd details.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NAS server.	string

### Responses

HTTP Code	Description	Schema
200	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

### Produces

- [document/text](#)

## POST /nas\_server/{id}/upload/hosts

### Description

Upload NAS server host file.

### Parameters



Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NAS server.	string
FormData	<b>body</b> <i>optional</i>	Upload NAS server host file.	file

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## Consumes

- `multipart/form-data`

## GET /nas\_server/{id}/download/hosts

### Description

Download an NAS server host file containing template/actual(if already uploaded) host details.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NAS server.	string

## Responses

HTTP Code	Description	Schema
200	Success	No Content
404	Not Found	<a href="#">error_response</a>

HTTP Code	Description	Schema
422	Operation Failed	<a href="#">error_response</a>

### Produces

- [document/text](#)

## POST /nas\_server/{id}/upload/group

### Description

Upload NAS server group file.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NAS server.	string
FormData	<b>body</b> <i>optional</i>	Upload NAS server group file.	file

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

### Consumes

- [multipart/form-data](#)

## GET /nas\_server/{id}/download/group

### Description

Download a NAS server group file containing the template or the actual (if already uploaded) group details.

## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NAS server.	string

## Responses

HTTP Code	Description	Schema
200	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## Produces

- [document/text](#)

## POST /nas\_server/{id}/upload/netgroup

### Description

Upload the NAS server netgroup file.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NAS server.	string
FormData	<b>body</b> <i>optional</i>	Upload the NAS server netgroup file.	file

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>

HTTP Code	Description	Schema
422	Operation Failed	<a href="#">error_response</a>

### Consumes

- [multipart/form-data](#)

## GET /nas\_server/{id}/download/netgroup

### Description

Download an NAS server netgroup file containing the template or the actual (if already uploaded) netgroup details.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NAS server.	string

### Responses

HTTP Code	Description	Schema
200	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

### Produces

- [document/text](#)

## POST /nas\_server/{id}/upload/nsswitch

### Description

Upload the NAS server nsswitch file.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NAS server.	string
FormData	<b>body</b> <i>optional</i>	Upload the NAS server nsswitch file.	file

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## Consumes

- `multipart/form-data`

## GET /nas\_server/{id}/download/nsswitch

### Description

Download a NAS server nsswitch file containing the template or the actual (if already uploaded) nsswitch configuration settings.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NAS server.	string

## Responses

HTTP Code	Description	Schema
200	Success	No Content
404	Not Found	<a href="#">error_response</a>

HTTP Code	Description	Schema
422	Operation Failed	<a href="#">error_response</a>

### Produces

- [document/text](#)

## POST /nas\_server/{id}/upload/homedir

### Description

Upload the NAS server homedir file.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NAS server.	string
FormData	<b>body</b> <i>optional</i>	Upload the NAS server homedir file.	file

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

### Consumes

- [multipart/form-data](#)

## GET /nas\_server/{id}/download/homedir

### Description

Download a NAS server homedir file containing the template or the actual (if already uploaded) homedir configuration settings.

## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NAS server.	string

## Responses

HTTP Code	Description	Schema
200	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## Produces

- [document/text](#)

## POST /nas\_server/{id}/upload/ntxmap

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NAS server.	string
FormData	<b>body</b> <i>optional</i>	Upload the NAS server ntxmap file.	file

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## Consumes

- `multipart/form-data`

## GET /nas\_server/{id}/download/ntxmap

### Description

Download an NAS server ntxmap file containing the template or the actual (if already uploaded) ntxmap configuration settings.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NAS server.	string

### Responses

HTTP Code	Description	Schema
200	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

### Produces

- `document/text`

## POST /nas\_server/{id}/update\_user\_mappings

### Description

Fix the user mappings for all file systems associated with the NAS server. This process updates file ownership on the NAS server's file systems to reflect changes to users' SIDs. A new UID/GID will be obtained from a Unix Directory Service for the user name of the object owner. A user mapping report is also generated. This operation can take a significant amount of time, depending of the size of the file systems.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NAS server.	string



## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## GET /nas\_server/{id}/download/user\_mapping\_report

### Description

Download the report generated by the update\_user\_mappings action.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NAS server.	string

## Responses

HTTP Code	Description	Schema
200	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

### Produces

- [document/text](#)

## network

Use these resource types to scale and reconfigure the IP networks in a cluster.

## GET /network

### Description

Query the IP network configurations of the cluster.

### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">network_instance</a> > array
206	Partial content of network instance objects	< <a href="#">network_instance</a> > array

## GET /network/{id}

### Description

Query a specific IP network configuration.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the IP network.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">network_instance</a>
404	Not Found	<a href="#">error_response</a>

### Consumes

- [application/json](#)

### Produces

- [application/json](#)

## PATCH /network/{id}

### Description

Modify IP network parameters, such as gateways, netmasks, VLAN identifiers, and IP addresses.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the IP network.	string
Body	<b>body</b> <i>optional</i>		<a href="#">network_modify</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

### Consumes

- [application/json](#)

### Produces

- [application/json](#)

## POST /network/{id}/replace

### Description

Reconfigure cluster management network settings from IPv4 to IPv6 or vice versa.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the IP network.	string

Type	Name	Description	Schema
Body	<b>body</b> <i>required</i>		<a href="#">network_replace</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## Consumes

- `application/json`

## Produces

- `application/json`

## POST /network/{id}/scale

### Description

Add IP ports for use by the storage network, or remove IP ports so they can no longer be used. At least one IP port must be configured for use by the storage network.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the IP network.	string
Body	<b>body</b> <i>optional</i>		<a href="#">network_scale</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

#### Consumes

- [application/json](#)

#### Produces

- [application/json](#)

## nfs\_export

NFS Exports use the NFS protocol to provide an access point for configured Linux/Unix hosts or IP subnets to access file\_systems or file\_snapshots.

### GET /nfs\_export

#### Description

List NFS Exports.

#### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">nfs_export_instance</a> > array
206	Partial content of nfs export instance objects	< <a href="#">nfs_export_instance</a> > array

### POST /nfs\_export

#### Description

Create an NFS Export for a Snapshot.

## Parameters

Type	Name	Schema
Body	<b>body</b> <i>required</i>	<a href="#">nfs_export_create</a>

## Responses

HTTP Code	Description	Schema
201	Created	<a href="#">create_response</a>
400	Invalid Request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## GET /nfs\_export/{id}

### Description

Get NFS Export properties.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	NFS Export object id.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">nfs_export_instance</a>
404	Not Found	<a href="#">error_response</a>

## DELETE /nfs\_export/{id}

### Description

Delete NFS Export.

## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	NFS Export object id.	string

## Responses

HTTP Code	Description	Schema
204	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## PATCH /nfs\_export/{id}

### Description

Modify NFS Export Properties.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	NFS Export object id.	string
Body	<b>body</b> <i>required</i>		<a href="#">nfs_export_modify</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

# nfs\_server

Use these resource types to manage NFS servers. One NFS server may be configured per NAS server. At least one NFS share must be created from an NFS server before an NFS client can connect to the storage resources. NFS servers can support the NFSv3 and NFSv4 protocols. The default protocol is NFSv3. It is enabled when the NFS server is created and remains active until the NFS server is deleted.

## GET /nfs\_server

### Description

Query all NFS Servers.

### Responses

HTTP Code	Description	Schema
200	Success.	< <a href="#">nfs_server_instance</a> > array
206	Partial content of nfs server instance objects	< <a href="#">nfs_server_instance</a> > array

## POST /nfs\_server

### Description

Create an NFS server.

### Parameters

Type	Name	Schema
Body	<b>body</b> <i>required</i>	<a href="#">nfs_server_create</a>

### Responses

HTTP Code	Description	Schema
201	Created	<a href="#">create_response</a>



HTTP Code	Description	Schema
400	Invalid Request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## GET /nfs\_server/{id}

### Description

Query settings of an NFS server.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NFS server.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">nfs_server_instance</a>
404	Not Found	<a href="#">error_response</a>

## DELETE /nfs\_server/{id}

### Description

Delete an NFS server.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NFS server.	string
Body	<b>body</b> <i>optional</i>		<a href="#">nfs_server_delete</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## PATCH /nfs\_server/{id}

### Description

Modify NFS server settings.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NFS server.	string
Body	<b>body</b> <i>required</i>		<a href="#">nfs_server_modify</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /nfs\_server/{id}/join

### Description

Join the secure NFS server to the NAS server's AD domain, which is necessary for Secure NFS.

## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NFS server.	string
Body	<b>body</b> <i>required</i>		<a href="#">nfs_server_join</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /nfs\_server/{id}/unjoin

### Description

Unjoin the secure NFS server from the NAS server's Active Directory domain. If you unjoin with secure NFS exports active, exports will be unavailable to the clients.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NFS server.	string
Body	<b>body</b> <i>required</i>		<a href="#">nfs_server_unjoin</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content

HTTP Code	Description	Schema
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## node

Use this resource type to retrieve information about nodes in a cluster.

### GET /node

#### Description

Query the nodes in a cluster.

#### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">node_instance</a> > array
206	Partial content of node instance objects	< <a href="#">node_instance</a> > array

### GET /node/{id}

#### Description

Query a specific node in a cluster.

#### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the node.	string

#### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">node_instance</a>
404	Not found	<a href="#">error_response</a>

#### Consumes

- `application/json`

#### Produces

- `application/json`

## ntp

Manage DNS and NTP settings for the cluster.

### GET /ntp

#### Description

Query NTP settings for a cluster.

#### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">ntp_instance</a> > array
206	Partial content of ntp instance objects	< <a href="#">ntp_instance</a> > array

### GET /ntp/{id}

#### Description

Query a specific NTP setting.

#### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NTP setting.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">ntp_instance</a>
404	Not Found	<a href="#">error_response</a>

## PATCH /ntp/{id}

### Description

Modify NTP settings.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the NTP setting.	string
Body	<b>body</b> <i>required</i>		<a href="#">ntp_modify</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

### Consumes

- `application/json`

### Produces

- `application/json`

# performance\_rule

Information about performance rules that can be use in performance policies applied to volumes and volume groups.

## GET /performance\_rule

### Description

Get performance rules.

### Responses

HTTP Code	Description	Schema
200	OK	< <a href="#">performance_rule_instance</a> > array
206	Partial content of performance rule instance objects	< <a href="#">performance_rule_instance</a> > array

### Produces

- `application/json`

## GET /performance\_rule/{id}

### Description

Get a performance rule by id.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Performance Rule id.	string

### Responses

HTTP Code	Description	Schema
200	OK	<a href="#">performance_rule_instance</a>

HTTP Code	Description	Schema
404	The performance_rule does not exist.	<a href="#">error_response</a>

### Produces

- [application/json](#)

## physical\_switch

Manage physical switches settings for the cluster.

### GET /physical\_switch

#### Description

Query physical switches settings for a cluster.

#### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">physical_switch_instance</a> > array
206	Partial content of physical switch instance objects	< <a href="#">physical_switch_instance</a> > array

### POST /physical\_switch

#### Description

Create a physical switch settings.

#### Parameters

Type	Name	Schema
Body	<b>body</b> <i>required</i>	<a href="#">physical_switch_create</a>

#### Responses



HTTP Code	Description	Schema
201	Created	<a href="#">create_response</a>
400	Invalid Request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## GET /physical\_switch/{id}

### Description

Query a specific physical switch settings.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the physical switch settings.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">physical_switch_instance</a>
404	Not Found	<a href="#">error_response</a>

## DELETE /physical\_switch/{id}

### Description

Delete the physical switch settings.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the physical switch settings.	string

## Responses

HTTP Code	Description	Schema
204	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## PATCH /physical\_switch/{id}

### Description

Modify a physical switch settings.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the physical switch settings.	string
Body	<b>body</b> <i>optional</i>		<a href="#">physical_switch_modify</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## policy

Use this resource type to manage protection policies and to view information about performance policies.

Note: Performance policies are predefined for high, low, and medium performance. They cannot be added to or changed.

## GET /policy

### Description

Query protection and performance policies.

The following REST query is an example of how to retrieve protection policies along with their rules and associated resources:

```
https://{{cluster_ip}}/api/rest/policy?  
select=name,id,type,replication_rules(id,name,rpo,remote_system(id,name,management_address)),  
snapshot_rules(id,name,interval,time_of_day,days_of_week),volume(id,name),volume_group(id,na  
me)&type=eq.Protection
```

The following REST query is an example of how to retrieve performance policies along with their associated resources:

```
https://{{cluster_ip}}/api/rest/policy?select=name,id,type,volume(id,name),volume_group(id,name)&  
type=eq.Performance
```

### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">policy_instance</a> > array
206	Partial content of policy instance objects	< <a href="#">policy_instance</a> > array

## POST /policy

### Description

Create a new protection policy. Protection policies can be assigned to volumes or volume groups. When a protection policy is assigned to a volume or volume group:

- If the policy is associated with one or more snapshot rules, scheduled snapshots are created based on the schedule specified in each snapshot rule.
- If the policy is associated with a replication rule, a replication session is created and synchronized based on the schedule specified in the replication rule.

### Parameters

Type	Name	Schema
Body	<b>body</b> <i>required</i>	<a href="#">policy_create</a>

## Responses

HTTP Code	Description	Schema
201	Success	<a href="#">create_response</a>
400	Invalid Request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## GET /policy/{id}

### Description

Query a specific policy.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the policy.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">policy_instance</a>
404	Not Found	<a href="#">error_response</a>

## DELETE /policy/{id}

### Description

Delete a protection policy.

Protection policies that are used by any storage resources can not be deleted.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the protection policy to be deleted.	string

## Responses

HTTP Code	Description	Schema
204	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## PATCH /policy/{id}

### Description

Modify a protection policy.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the policy to be modified.	string
Body	<b>body</b> <i>optional</i>		<a href="#">policy_modify</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## remote\_system

Information about remote storage systems that connect to the local PowerStore system. The system uses the configuration to access and communicate with the remote system for management and data transfer communications. For example, to use remote replication, create a configuration that specifies the remote system to use as the destination for the replication session.

The PowerStore local system can establish a remote system relationship with different types of remote storage systems for replication remote protection and import use-cases. Refer to the RemoteSystemTypeEnum specification for a list of system types supported. **NOTE** Before creating a remote system relationship with PowerStore remote systems, first establish a Certificate Based Trust between the local and remote PowerStore systems using the **verify** and **exchange** operations on the **x509\_certificate** resource type.

## GET /remote\_system

### Description

Query remote systems.

### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">remote_system_instance</a> > array
206	Partial content of remote system instance objects	< <a href="#">remote_system_instance</a> > array

## POST /remote\_system

### Description

Create a new remote system relationship. The type of remote system being connected requires different parameter sets. For PowerStore remote system relationships, include the following parameters:

- Management address - Either an IPv4 or IPv6 address. FQDN is not supported.
- Type of remote system
- Data network latency type

For PowerStore remote system relationships, the relationship is created in both directions. Remote protection policies can be configured using the PowerStore remote system instance on either of the systems. This enables remote replication for storage resources in either direction. The data connections take into account whether Challenge Handshake Authentication Protocol (CHAP) is enabled on local and remote PowerStore systems.

For non-PowerStore remote system relationships, include the following parameters:

- Management address - Either an IPv4 or IPv6 address. FQDN is not supported.
- Type of remote system

- Name
- Description
- Remote administrator credentials
- iSCSI address - IPv4 address
- CHAP mode for discovery or session
- CHAP secrets details

After the remote system relationship is created, the local system can communicate with the remote system, and open data connections for data transfer.

### Parameters

Type	Name	Description	Schema
Body	<b>body</b> <i>required</i>	Parameters to create a remote system.	<a href="#">remote_system_create</a>

### Responses

HTTP Code	Description	Schema
201	Created	<a href="#">create_response</a>
400	Invalid Request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## GET /remote\_system/{id}

### Description

Query a remote system instance.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the remote system.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">remote_system_instance</a>
404	Not Found	<a href="#">error_response</a>

## DELETE /remote\_system/{id}

### Description

Delete a remote system. Deleting the remote system deletes the management and data connections established with the remote system. You cannot delete a remote system if there are active import sessions, or if there are remote protection policies active in the system referencing the remote system instance.

For PowerStore remote systems, the relationship is deleted in both directions if the remote system is up and connectable. You cannot delete a PowerStore remote system if there is no management connectivity between the local and remote systems. Only the local end of the relationship is deleted. Manually log in to the remote PowerStore system and remove the relationship.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the remote system.	string
Body	<b>body</b> <i>optional</i>	Parameters to delete a remote system.	<a href="#">remote_system_delete</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## PATCH /remote\_system/{id}



## Description

Modify a remote system instance. The list of valid parameters depends on the type of remote system.

For PowerStore remote system relationships:

- Description
- Management address - An IPv4 or IPv6 address. FQDN is not supported.

For non-PowerStore remote system relationships:

- Name
- Description
- Management address - An IPv4 address. FQDN is not supported.
- Remote administrator credentials
- iSCSI address - An IPv4 address.

After modifying the remote session instance, the system reestablishes the data connections as needed.

## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the remote system.	string
Body	<b>body</b> <i>required</i>	Parameters to modify the remote system.	<a href="#">remote_system_modify</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /remote\_system/{id}/verify

## Description

Verify and update the remote system instance.

Detects changes in the local and remote systems and reestablishes data connections, also taking the Challenge Handshake Authentication Protocol (CHAP) settings into account.

## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the remote system.	string
Body	<b>body</b> <i>optional</i>	Parameters to verify a remote system.	<a href="#">remote_system_verify</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

# replication\_rule

Use this resource type to manage the replication rules that are used in protection policies.

## GET /replication\_rule

### Description

Query all replication rules.

### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">replication_rule_instance</a> > array
206	Partial content of replication rule instance objects	< <a href="#">replication_rule_instance</a> > array

## POST /replication\_rule

### Description

Create a new replication rule.

### Parameters

Type	Name	Schema
Body	<b>body</b> <i>required</i>	<a href="#">replication_rule_create</a>

### Responses

HTTP Code	Description	Schema
201	Success	<a href="#">create_response</a>
400	Invalid request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## GET /replication\_rule/{id}

### Description

Query a specific replication rule.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the replication rule.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">replication_rule_instance</a>
404	Not Found	<a href="#">error_response</a>

## DELETE /replication\_rule/{id}

### Description

Delete a replication rule.

Deleting a rule is not permitted, if the rule is associated with a protection policy that is currently applied to a storage resource.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the replication rule.	string

## Responses

HTTP Code	Description	Schema
204	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## PATCH /replication\_rule/{id}

### Description

Modify a replication rule.

If the rule is associated with a policy that is currently applied to a storage resource, the modified rule is immediately applied to the associated storage resource.

Changing the `remote_system_id` is not permitted, if the rule is part of a policy that is currently applied to a storage resource. To change the remote system associated with a replication rule, do

either of the following:

Remove the protection policy association from the relevant storage resources, modify the replication rule, and then associate the storage resources with the relevant protection policies.

Remove the replication rule from the protection policies that use it, modify the replication rule, and then associate it back with the relevant protection policies.

## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the replication rule.	string
Body	<b>body</b> <i>optional</i>		<a href="#">replication_rule_modify</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## replication\_session

Use this resource type to manage replication sessions for storage resources in the system. Replication sessions operate on volume and volume\_group resource types. Replication sessions are created and deleted through protection policies on the storage resources.

In addition to copying data, the replication session synchronizes configuration changes on source resource and replicates user and scheduled snapshots to destination system.

Replication sessions provide disaster recovery failover, reprotect and failback capabilities. As a result:

- The downtime-associated cost of a system failure is minimized.
- The recovery process from a disaster is facilitated.

Replication sessions also provides pause and resume capabilities, to allow for production or disaster recovery-side maintenance requirements.

Destination storage resources are in replication destination mode, which disables any write access to the destination resource. Any operations such as resizing the volume, restoring the snapshot, or changing membership for a volume group on the resource are not allowed.

On the source end, volumes can be expanded, and volume group membership changes are allowed during any states of a replication session.

## GET /replication\_session

### Description

Query replication sessions.

### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">replication_session_instance</a> > array
206	Partial content of replication session instance objects	< <a href="#">replication_session_instance</a> > array

## GET /replication\_session/{id}

### Description

Query a replication session instance.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the replication session.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">replication_session_instance</a>
404	Not Found	<a href="#">error_response</a>

## POST /replication\_session/{id}/sync

### Description

Synchronize the destination resource with changes on source resource from the previous synchronization cycle. Synchronization happens either automatically according to a set schedule, or manually. User and scheduler-created snapshots are synchronized from the source system to the destination system while maintaining block sharing efficiency.

Also synchronizes any size changes, membership changes, or both, on the source resource. At the end of the synchronization cycle, the destination resource reflects the state as it was when synchronization began. Any size changes, membership changes, or both, to source resource done during the synchronization cycle are replicated in next synchronization cycle.

Synchronization is allowed when the replication session is in the following states:

- OK
- System\_Paused

During synchronization, you can take the following actions:

- Planned failover from the source system
- Failover from the destination system
- Pause replication sessions from the source or destination system
- Delete a replication session by removing a protection policy

Synchronization failure places the replication session in a System\_Paused state. When the system recovers, the replication session continues from the same point as when the system paused, using the restart address.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the replication session.	string

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /replication\_session/{id}/pause

### Description

Pause a replication session instance. You can pause a replication session when you need to modify the source or destination system. For example, you can pause the replication session to take the source or destination system down for maintenance.

The session can be paused when it is in the following states:

### OK

Remembers the replication session state before pausing, and resumes to OK state

### Synchronizing

Remembers the restart address before pausing, and resumes from the restart address

### System\_Paused

Remembers the restart address before pausing, and resumes from the restart address as recorded when the system entered the System\_Paused state

In case of loss of network connectivity between two sites, the replication session is paused only on the local system where it is issued. Pause the replication session again to pause both sites. The following operations are not allowed while only the replication session on the local system is paused:

- Resume
- Sync
- Planned Failover

The following operations are allowed while only the replication session on the local system is paused:

### Pause

Use to place both sites into the **Paused** state



## Failover

Use to get production access from the disaster recovery site

- Delete the replication session by removing the protection policy on the storage resource

The following system operations may also pause, and subsequently resume, a replication session:

- Non-disruptive upgrade
- Intra-cluster migration

Leaving replication session in a paused state results in change accumulations on the source system, and consume more storage on the source system. Resuming a replication session that has been paused for a long time can result in long synchronization times.

## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the replication session.	string

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /replication\_session/{id}/resume

### Description

Resume a replication session instance that is paused. Resuming the replication session schedules a synchronization cycle if the session was in the following states when the session was paused:

- Synchronizing
- System\_Paused

When only the replication session on the local system is paused, resuming the session pauses both sites.

You cannot resume replication sessions paused by the system. The following system operations may

also pause, and subsequently resume, a replication session.

- Paused\_for\_NDU
- Paused\_for\_Migration

## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the replication session.	string

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /replication\_session/{id}/failover

### Description

Fail over a replication session instance. Failing over the replication session changes the role of the destination system. After a failover, the original destination system becomes the source system, and production access is enabled for hosts and applications for recovery. Failovers can be planned or unplanned.

Planned failovers are issued from the source system and are indicated by setting the `is_planned` parameter to true. When you fail over a replication session from the source system, the destination system is fully synchronized with the source to ensure that there is no data loss. During a planned failover, stop I/O operations for any applications and hosts. If a synchronization error occurs during a planned failover, the replication session enters the `System_Paused` state. You cannot pause a replication session during a planned failover. The following operations can be performed during planned failover:

- Unplanned failover
- Delete the replication session by removing the protection policy on the storage resource

After a planned failover, the replication session is in an inactive state. You can use the `reprotect` action to synchronize the destination storage resource, and then resume the replication session. The `auto-reprotect` feature can also be used after a planned failover by using the `reverse`

parameter, which activates the session in the reverse direction.

Unplanned failures are events such as source system failure or an event on the source system that leads to downtime for production access.

Unplanned failovers are issued from the destination system, and are indicated by setting the `is_planned` parameter to false. Unplanned failovers provide production access to the original destination resource from a previous synchronized point-in-time snapshot referred to as replication common-base. After an unplanned failover, you can restore the system from any point-in-time snapshots on the new source resource. Unplanned failovers place the original source resource into destination mode once it reestablishes a connection to the source system. You can use the `reprotect` action to synchronize the destination storage resource, and then resume the replication session.

After the replication session has failed over, you can resize the volume group or change the volume group membership on the new source resource.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the replication session.	string
Body	<b>body</b> <i>optional</i>		<a href="#">replication_session_failover</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /replication\_session/{id}/reprotect

### Description

Reprotect a replication session instance. Activates the replication session and starts synchronization. This can only be used when the session is in the has been failed over.

## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the replication session.	string

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

# role

Use these resource types to manage sessions, roles, and system security configurations.

## GET /role

### Description

Query roles. This resource type collection query does not support filtering, sorting or pagination

### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">role_instance</a> > array
206	Partial content of role instance objects	< <a href="#">role_instance</a> > array

### Produces

- [application/json](#)

## GET /role/{id}

### Description

Query a specific role.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the role.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">role_instance</a>
404	Not Found	<a href="#">error_response</a>

### Produces

- [application/json](#)

## sas\_port

Use this resource type to retrieve information about SAS ports.

## GET /sas\_port

### Description

Query the SAS port configuration for all cluster nodes.

### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">sas_port_instance</a> > array
206	Partial content of sas port instance objects	< <a href="#">sas_port_instance</a> > array

## GET /sas\_port/{id}

### Description

Query a specific SAS port configuration.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the SAS port.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">sas_port_instance</a>
404	Not Found	<a href="#">error_response</a>

## security\_config

system security configuration

## GET /security\_config

### Description

Query system security configurations. This resource type collection query does not support filtering, sorting or pagination

### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">security_config_instance</a> > array
206	Partial content of security config instance objects	< <a href="#">security_config_instance</a> > array

## Produces

- `application/json`

## GET /security\_config/{id}

### Description

Query a specific system security configuration.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the system security configuration.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">security_config_instance</a>
404	Not Found	<a href="#">error_response</a>

## Produces

- `application/json`

## service\_config

Manage the service configuration for each appliance.

- 'SSH Access' - Manage the ability for the service user to remotely connect to the nodes in an appliance using SSH.

## GET /service\_config

### Description

Query the service configuration instances for the cluster. This resource type collection query does not support filtering, sorting or pagination

### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">service_config_instance</a> > array
206	Partial content of service config instance objects	< <a href="#">service_config_instance</a> > array

## GET /service\_config/{id}

### Description

Query the service configuration instances for an appliance.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the instance.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">service_config_instance</a>
404	Not Found	<a href="#">error_response</a>

## PATCH /service\_config/{id}

### Description

Modify the service configuration for an appliance.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the instance.	string



Type	Name	Description	Schema
Body	<b>body</b> <i>required</i>		<a href="#">service_config_modify</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## service\_user

Use this resource type to manage the service user account. The system includes the default `service_user` account with the username 'service'. The service user account cannot authenticate through the REST, CLI, or graphical user interfaces. You cannot create more service user accounts or delete the default service user account. During the initial configuration, along with the default admin user account, a password change for the service user account is also required.

Only the default `service_user` account can log in via SSH. Ensure that SSH is enabled on the system for the `service_user` to log in. SSH can be enabled or disabled using the `service_config modify` operation.

## GET /service\_user

### Description

Query the service user account instance. This resource type collection query does not support filtering, sorting or pagination

### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">service_user_instance</a> > array

HTTP Code	Description	Schema
206	Partial content of service user instance objects	< <a href="#">service_user_instance</a> > array

### Produces

- `application/json`

## GET /service\_user/{id}

### Description

Query the service user account using the unique identifier.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the service user.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">service_user_instance</a>
404	Not Found	<a href="#">error_response</a>

### Produces

- `application/json`

## PATCH /service\_user/{id}

### Description

Modify the properties of the service user account.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the service user account.	string
Body	<b>body</b> <i>required</i>		<a href="#">service_user_modify</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## Produces

- `application/json`

# smb\_server

Use these resource types to manage Server Message Block (SMB) servers. SMB is a protocol for sharing files and communications abstractions such as named pipes and mail slots between computers. Most usage of SMB involves computers running Microsoft Windows, but it is commonly supported on other types of systems as well. SMB was formerly known as Common Internet File System (CIFS). An SMB server must be created on a NAS server before SMB shares can be created on the file systems on that NAS server. An SMB server can be created as a standalone server or as a server that belongs to an Active Directory domain (often a Window domain). In that case, DNS must be enabled on the NAS server. The credentials of an administrator of the domain are required to join that domain. An NTP server must be defined also, to prevent authentication errors caused by unsynchronized clocks. Each NAS server supports a maximum of one SMB server.

## GET /smb\_server

### Description

Query all SMB servers.

### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">smb_server_instance</a> > array
206	Partial content of smb server instance objects	< <a href="#">smb_server_instance</a> > array

## POST /smb\_server

### Description

Create an SMB server.

### Parameters

Type	Name	Schema
Body	<b>body</b> <i>required</i>	<a href="#">smb_server_create</a>

### Responses

HTTP Code	Description	Schema
201	Created	<a href="#">create_response</a>
400	Invalid Request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## GET /smb\_server/{id}

### Description

Query settings of a specific SMB server.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the SMB server.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">smb_server_instance</a>
404	Not Found	<a href="#">error_response</a>

## DELETE /smb\_server/{id}

### Description

Delete a SMB server. The SMB server must not be joined to a domain to be deleted.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the SMB server.	string
Body	<b>body</b> <i>optional</i>		<a href="#">smb_server_delete</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## PATCH /smb\_server/{id}

### Description

Modify an SMB server's settings.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the SMB server.	string
Body	<b>body</b> <i>required</i>		<a href="#">smb_server_modify</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /smb\_server/{id}/join

### Description

Join the SMB server to an Active Directory domain.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the SMB server.	string
Body	<b>body</b> <i>required</i>		<a href="#">smb_server_join</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>

HTTP Code	Description	Schema
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /smb\_server/{id}/unjoin

### Description

Unjoin the SMB server from an Active Directory domain.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the SMB server.	string
Body	<b>body</b> <i>required</i>		<a href="#">smb_server_unjoin</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## smb\_share

SMB Shares use the SMB protocol to provide an access point for configured Windows hosts to access file system storage. The system uses Active Directory to authenticate user and user group access to the Share.

### GET /smb\_share

## Description

List SMB shares.

## Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">smb_share_instance</a> > array
206	Partial content of smb share instance objects	< <a href="#">smb_share_instance</a> > array

## POST /smb\_share

### Description

Create an SMB share.

### Parameters

Type	Name	Schema
Body	<b>body</b> <i>required</i>	<a href="#">smb_share_create</a>

## Responses

HTTP Code	Description	Schema
201	Created	<a href="#">create_response</a>
400	Invalid Request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## GET /smb\_share/{id}

### Description

Get an SMB Share.



## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	SMB Share object id.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">smb_share_instance</a>
404	Not Found	<a href="#">error_response</a>

## DELETE /smb\_share/{id}

### Description

Delete an SMB Share.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	SMB Share object id.	string

## Responses

HTTP Code	Description	Schema
204	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## PATCH /smb\_share/{id}

### Description

Modify SMB share properties.

## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	SMB share object id.	string
Body	<b>body</b> <i>optional</i>		<a href="#">smb_share_modify</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

# smtp\_config

Use these resource types to configure outgoing SMTP and email notifications.

## GET /smtp\_config

### Description

Query the SMTP configuration. There is always exactly one smtp\_config instance.

### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">smtp_config_instance</a> > array
206	Partial content of smtp config instance objects	< <a href="#">smtp_config_instance</a> > array

## GET /smtp\_config/{id}

### Description

Query the specific SMTP configuration.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the SMTP configuration.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">smtp_config_instance</a>
404	Not Found	<a href="#">error_response</a>

## PATCH /smtp\_config/{id}

### Description

Configure the outgoing SMTP information.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the SMTP configuration.	string
Body	<b>body</b> <i>required</i>		<a href="#">smtp_config_modify</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>

HTTP Code	Description	Schema
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /smtp\_config/{id}/test

### Description

Test the SMTP configuration.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the SMTP configuration.	string
Body	<b>body</b> <i>required</i>	Test operation request body.	<a href="#">smtp_config_test</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## snapshot\_rule

Use this resource type to manage snapshot rules that are used in protection policies.

### GET /snapshot\_rule

#### Description

Query all snapshot rules.

## Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">snapshot_rule_instance</a> > array
206	Partial content of snapshot rule instance objects	< <a href="#">snapshot_rule_instance</a> > array

## POST /snapshot\_rule

### Description

Create a new snapshot rule.

### Parameters

Type	Name	Schema
Body	<b>body</b> <i>required</i>	<a href="#">snapshot_rule_create</a>

## Responses

HTTP Code	Description	Schema
201	Success	<a href="#">create_response</a>
400	Invalid request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## GET /snapshot\_rule/{id}

### Description

Query a specific snapshot rule.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the snapshot rule.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">snapshot_rule_instance</a>
404	Not Found	<a href="#">error_response</a>

## DELETE /snapshot\_rule/{id}

### Description

Delete a snapshot rule

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the snapshot rule.	string
Body	<b>body</b> <i>optional</i>		<a href="#">snapshot_rule_delete</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## PATCH /snapshot\_rule/{id}

### Description

Modify a snapshot rule.

If the rule is associated with a policy that is currently applied to a storage resource, the modified rule is immediately applied to that associated storage resource.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the snapshot rule.	string
Body	<b>body</b> <i>optional</i>		<a href="#">snapshot_rule_modify</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## software\_installed

Software upgrade functionality. Only one upgrade can be active at a time.

### GET /software\_installed

#### Description

Query the software that is installed on each appliance. The output returns a list of JSON objects representing the software that is installed on each appliance and one entry representing the common software installed version that is supported for all appliances in the cluster.

#### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">software_installed_instance</a> > array

HTTP Code	Description	Schema
206	Partial content of software installed instance objects	< <a href="#">software_installed_instance</a> > array

## GET /software\_installed/{id}

### Description

Query a specific item from the list of installed software.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the installed software to query.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">software_installed_instance</a>
404	Not Found	<a href="#">error_response</a>

## software\_package

Software upgrade functionality. Only one upgrade can be active at a time.

## GET /software\_package

### Description

Query the software packages that are known by the cluster. The output returns a list of JSON objects representing the packages.

### Responses



HTTP Code	Description	Schema
200	Success.	< <a href="#">software_package_instance</a> > array
206	Partial content of software package instance objects	< <a href="#">software_package_instance</a> > array

## POST /software\_package

### Description

Push a software package file from the client to the cluster. When successfully uploaded and verified, the result is a `software_package` in the downloaded state, ready to install.

### Parameters

Type	Name	Description	Schema
FormData	<b>upload_file</b> <i>optional</i>	Name of the software package file to upload.	file

### Responses

HTTP Code	Description	Schema
201	Created	<a href="#">create_response</a>
400	Invalid request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

### Consumes

- `multipart/form-data`

### Produces

- `application/json`

## GET /software\_package/{id}

## Description

Query a specific software package.

## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the software package to query.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">software_package_instance</a>
404	Not Found	<a href="#">error_response</a>

## DELETE /software\_package/{id}

### Description

Delete the specified software package from the cluster. This operation may take some time to complete.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the software package to delete.	string

### Responses

HTTP Code	Description	Schema
202	Accepted	<a href="#">job_response</a>
204	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /software\_package/{id}/install

### Description

Start a software upgrade background job for the specified appliance within the cluster. If an appliance is not specified, the upgrade is performed on all appliances in the cluster.

Only specify a subset of appliances to upgrade if the time required to upgrade the entire cluster does not fit within a desired maintenance window. When upgrading a subset of appliances, you must adhere to the following ordering rules:

- The primary appliance must always be upgraded first.
- The secondary appliance, which is used as the cluster management database fail-over target, must be upgraded second.
- After the primary and secondary appliances are upgraded, any remaining appliances in the cluster may be upgraded. By default, the process upgrades the appliances in the order they were added to the cluster if possible.

Because this operation takes a long time to complete, using the "is\_async flag" is recommended. If the "is\_reboot\_required" flag is set to true, the primary appliance reboots before the install completes and the operation cannot return synchronously.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the instance.	string
Body	<b>body</b> <i>optional</i>		<a href="#">software_package_install</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /software\_package/{id}/puhc

### Description

Run the pre-upgrade health check for a software package. This operation may take some time to respond.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the software package.	string
Body	<b>body</b> <i>optional</i>		<a href="#">software_package_install</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## storage\_container

Manage storage containers. A storage container is a logical grouping of related storage objects in a cluster. A storage container corresponds to a vVol datastore in vCenter and is used to group related vVols and track the amount of space that is used/free.

### GET /storage\_container

#### Description

List storage containers.

#### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">storage_container_instance</a> > array
206	Partial content of storage container instance objects	< <a href="#">storage_container_instance</a> > array

### Produces

- [application/json](#)

## POST /storage\_container

### Description

Create a virtual volume (vVol) storage container.

### Parameters

Type	Name	Schema
Body	<b>body</b> <i>required</i>	<a href="#">storage_container_create</a>

### Responses

HTTP Code	Description	Schema
201	Success	<a href="#">create_response</a>
400	Invalid Request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

### Produces

- [application/json](#)

## GET /storage\_container/{id}

### Description

Query a specific instance of storage container.

## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Storage container ID.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">storage_container_instance</a>
404	Not Found	<a href="#">error_response</a>

## Produces

- `application/json`

## DELETE /storage\_container/{id}

### Description

Delete a storage container.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Storage container ID.	string
Body	<b>body</b> <i>optional</i>	Options to delete storage_container.	<a href="#">storage_container_delete</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>

HTTP Code	Description	Schema
422	Operation Failed	<a href="#">error_response</a>

### Produces

- [application/json](#)

## PATCH /storage\_container/{id}

### Description

Modify a storage container.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Storage container ID.	string
Body	<b>body</b> <i>required</i>	Fields to update.	<a href="#">storage_container_modify</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

### Produces

- [application/json](#)

## POST /storage\_container/{id}/mount

### Description

Mount a storage container as a vVol datastore in vCenter.

## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Storage container ID.	string
Body	<b>body</b> <i>optional</i>		<a href="#">storage_container_m ount</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /storage\_container/{id}/unmount

### Description

Unmount a storage container, which removes the vVol datastore from vCenter.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Storage container ID.	string

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>



HTTP Code	Description	Schema
422	Operation Failed	<a href="#">error_response</a>

## vcenter

Use this resource type to manage vCenter instances. Registered vCenter enables discovering of virtual machines, managing virtual machine snapshots, automatic mounting of storage container and other functionality that requires communication with vCenter. In Unified+ deployments, the one vCenter instance residing in the PowerStore cluster will be prepopulated here and cannot be deleted, nor may any other vCenters be added. For Unified deployments, one external vCenter may be configured if desired.

### GET /vcenter

#### Description

Query registered vCenters.

#### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">vcenter_instance</a> > array
206	Partial content of vcenter instance objects	< <a href="#">vcenter_instance</a> > array

### POST /vcenter

#### Description

Add a vCenter. Not allowed in Unified+ deployments.

#### Parameters

Type	Name	Schema
Body	<b>body</b> <i>optional</i>	<a href="#">vcenter_create</a>

#### Responses

HTTP Code	Description	Schema
201	Created	<a href="#">create_response</a>
400	Invalid Request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## GET /vcenter/{id}

### Description

Query a specific vCenter instance.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the vCenter to query.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">vcenter_instance</a>
404	Not Found	<a href="#">error_response</a>

## DELETE /vcenter/{id}

### Description

Delete a registered vCenter. Deletion of vCenter disables functionality that requires communication with vCenter. Not allowed in Unified+ deployments.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the vCenter to delete.	string

## Responses

HTTP Code	Description	Schema
204	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## PATCH /vcenter/{id}

### Description

Modify a vCenter settings.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the vCenter to modify.	string
Body	<b>body</b> <i>optional</i>		<a href="#">vcenter_modify</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## veth\_port

Use these resource types to manage the cluster-wide configuration of virtual IP ports, bonds, and virtual Ethernet ports.

## GET /veth\_port

### Description

Query virtual Ethernet port configurations.

### Responses

HTTP Code	Description	Schema
200	Success	< veth_port_instanc e > array
206	Partial content of veth port instance objects	< veth_port_instanc e > array

## GET /veth\_port/{id}

### Description

Query a specific virtual Ethernet port configuration.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the virtual Ethernet port.	string

### Responses

HTTP Code	Description	Schema
200	Success	veth_port_instanc e
404	Not Found	error_response

### Consumes

- `application/json`

### Produces

- `application/json`

# virtual\_machine

Use this resource type to retrieve cached information from vCenter about virtual machines (VMs) that use storage from the cluster or to create a snapshot of a VM.

## GET /virtual\_machine

### Description

Query virtual machines that use storage from the cluster.

### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">virtual_machine_instance</a> > array
206	Partial content of virtual machine instance objects	< <a href="#">virtual_machine_instance</a> > array

## GET /virtual\_machine/{id}

### Description

Query a specific virtual machine instance.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the virtual machine to query.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">virtual_machine_instance</a>
404	Not Found	<a href="#">error_response</a>

## DELETE /virtual\_machine/{id}

### Description

Delete a virtual machine snapshot. This operation cannot be used on a base virtual machine or virtual machine template.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the virtual machine snapshot to delete.	string

### Responses

HTTP Code	Description	Schema
204	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## PATCH /virtual\_machine/{id}

### Description

Modify a virtual machine. This operation cannot be used on virtual machine snapshots or templates.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the virtual machine to modify.	string
Body	<b>body</b> <i>optional</i>		<a href="#">virtual_machine_modify</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content

HTTP Code	Description	Schema
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /virtual\_machine/{id}/snapshot

### Description

Create a snapshot of a virtual machine. This operation cannot be used on a virtual machine snapshot or template.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the virtual machine to create a snapshot of.	string
Body	<b>body</b> <i>optional</i>		<a href="#">virtual_machine_snapshot</a>

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">virtual_machine_snapshot_response</a>
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## virtual\_volume

Information about virtual volumes, which are managed through vCenter.

## GET /virtual\_volume

### Description

Get virtual volumes.

### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">virtual_volume_in stance</a> > array
206	Partial content of virtual volume instance objects	< <a href="#">virtual_volume_in stance</a> > array

## GET /virtual\_volume/{id}

### Description

Get a specific virtual volume.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Id of the virtual volume.	string

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">virtual_volume_in stance</a>
404	Not Found	<a href="#">vvol_error_respon se</a>

## DELETE /virtual\_volume/{id}

### Description

Delete a virtual volume.



## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the virtual volume to delete.	string
Body	<b>body</b> <i>optional</i>	Options to delete a virtual volume.	<a href="#">virtual_volume_delete</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

# volume

Manage volumes, including snapshots and clones of volumes.

## GET /volume

### Description

Query volumes that are provisioned on the appliance.

### Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">volume_instance</a> > array
206	Partial content of volume instance objects	< <a href="#">volume_instance</a> > array

## POST /volume

### Description

Create a volume on the appliance.

## Parameters

Type	Name	Schema
Body	<b>body</b> <i>required</i>	<a href="#">volume_create</a>

## Responses

HTTP Code	Description	Schema
201	Created	<a href="#">create_response</a>
400	Invalid Request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## GET /volume/{id}

### Description

Query a specific volume instance.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the volume to query.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">volume_instance</a>
404	Not Found	<a href="#">error_response</a>

## DELETE /volume/{id}

### Description

Delete a volume.

- A volume which is attached to a host or host group or is a member of a volume group cannot be deleted.

- A volume which has protection policies attached to it cannot be deleted.
- A volume which has snapshots that are part of a snapset cannot be deleted.
- Clones of a deleted production volume or a clone are not deleted.
- Snapshots of the volume are deleted along with the volume being deleted.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the volume to delete.	string

### Responses

HTTP Code	Description	Schema
204	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## PATCH /volume/{id}

### Description

Modify the parameters of a volume.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the volume to modify.	string
Body	<b>body</b> <i>required</i>		<a href="#">volume_modify</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content

HTTP Code	Description	Schema
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /volume/{id}/snapshot

### Description

Create a snapshot of a volume or a clone. The source id of the snapshot is the id of source volume or clone. The source time is the time when the snapshot is created.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the volume or clone to create a snapshot of.	string
Body	<b>body</b> <i>optional</i>		<a href="#">volume_snapshot</a>

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">volume_snapshot_response</a>
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /volume/{id}/clone

## Description

Create a clone of a volume or snapshot.

## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the volume or snapshot to create a clone of.	string
Body	<b>body</b> <i>optional</i>		<a href="#">volume_clone</a>

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">volume_clone_response</a>
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /volume/{id}/refresh

### Description

Refresh the contents of the target volume from another volume in the same family. By default, a backup snapshot of the target volume is not created before the refresh is attempted. To create a snapshot before refreshing, set **create\_backup\_snap** to true. If a snapshot is taken, the response includes the resulting snapshot id; otherwise it is empty. If a custom profile is not specified, the profile for the backup snapshot is automatically generated. The automatically generated profile only provides the name as an automatically generated, unique value. Other optional parameters are not specified. When a volume is refreshed, the `source_time` is the `source_time` of the volume from which it is refreshed.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of volume for which to refresh contents.	string
Body	<b>body</b> <i>required</i>		<a href="#">volume_refresh</a>

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">volume_refresh_response</a>
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /volume/{id}/restore

### Description

Restore a volume from a snapshot. A primary or clone volume can only be restored from one of its immediate snapshots. By default, a backup snapshot of the target snapshot is created before the restore is attempted. To skip creating a snapshot before restoring, set `create_backup_snap` to `false`. If a snapshot is taken, the response includes the resulting snapshot id; otherwise it is empty. If a custom profile is not specified, the profile for the backup snapshot is automatically generated. The automatically generated profile only provides the name as an automatically generated, unique value. Other optional parameters are not specified. When a volume is restored, the `source_time` is the `source_time` of the snapshot from which it is restored.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the volume to restore.	string
Body	<b>body</b> <i>required</i>		<a href="#">volume_restore</a>

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">volume_restore_response</a>
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /volume/{id}/attach

### Description

Attach a volume to a host or host group.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of volume to attach.	string
Body	<b>body</b> <i>required</i>		<a href="#">volume_attach</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## POST /volume/{id}/detach

### Description

Detach a volume from a host or host group.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of volume to detach.	string
Body	<b>body</b> <i>required</i>		<a href="#">volume_detach</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

## volume\_group

Manage volume\_groups. A volume\_group is a group of related volumes treated as a single unit. It can optionally be write-order consistent.

### GET /volume\_group

#### Description

Query all volume groups, including snapshot sets and clones of volume groups.

#### Responses



HTTP Code	Description	Schema
200	Success	< <a href="#">volume_group_instance</a> > array
206	Partial content of volume group instance objects	< <a href="#">volume_group_instance</a> > array

## POST /volume\_group

### Description

Create a new volume group. The resulting volume group will have a type of Primary.

### Parameters

Type	Name	Schema
Body	<b>body</b> <i>required</i>	<a href="#">volume_group_create</a>

### Responses

HTTP Code	Description	Schema
201	Created	<a href="#">create_response</a>
400	Invalid request	<a href="#">error_response</a>
422	Invalid Request	<a href="#">error_response</a>

## GET /volume\_group/{id}

### Description

Query a specific volume group, snapshot set, or clone.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the volume group.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">volume_group_instance</a>
404	Not Found	<a href="#">error_response</a>

## DELETE /volume\_group/{id}

### Description

Delete a volume group, snapshot set, or clone. Before you try deleting a volume group, snapshot set, or clone, ensure that you first detach it from all hosts. Note the following:

- When a volume group or clone is deleted, all related snapshot sets will also be deleted.
- When a snapshot set is deleted, all of its constituent snapshots will also be deleted.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the volume group.	string
Body	<b>body</b> <i>optional</i>		<a href="#">volume_group_delete</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
404	Not Found	<a href="#">error_response</a>
422	Invalid Request	<a href="#">error_response</a>

## PATCH /volume\_group/{id}

### Description

Modify a volume group, snapshot set, or clone.

## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the volume group.	string
Body	<b>body</b> <i>optional</i>		<a href="#">volume_group_modify</a>

## Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Invalid Request	<a href="#">error_response</a>

## POST /volume\_group/{id}/add\_members

### Description

Add member volumes to an existing primary or clone volume group. This cannot be used to add members to a snapshot set. Members cannot be added to a volume group that is acting as the destination in a replication session.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the volume group.	string
Body	<b>body</b> <i>required</i>		<a href="#">volume_group_add_members</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content

HTTP Code	Description	Schema
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Invalid Request	<a href="#">error_response</a>

## POST /volume\_group/{id}/remove\_members

### Description

Remove members from an existing primary or clone volume group. This cannot be used to remove members from a snapshot set. Members cannot be removed from a volume group that is acting as the destination in a replication session.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the volume group.	string
Body	<b>body</b> <i>required</i>		<a href="#">volume_group_remove_members</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Invalid Request	<a href="#">error_response</a>

## POST /volume\_group/{id}/snapshot

### Description

Create a new snapshot set for a volume group. When a snapshot of a volume group is created, the resultant snapshot volume group is referred to as a "snapshot set" and it represents a point-in-time copy of the members in the volume group. The snapshot set will be created on the same appliance

as the source volume group. A snapshot of a volume group will result in a new volume group of **Snapshot** type. The snapshot set will belong to the same family as the source volume group. When the source of a snapshot operation is a primary or clone volume group,

- **source\_id** of the snapshot set will be set to the identifier of the source volume group.
- **source\_time** of the snapshot set will be set to the time at which the snapshot set will be created.

The **is\_write\_order\_consistent** property of the source volume group determines whether the snapshot set will be write-order consistent.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the volume group.	string
Body	<b>body</b> <i>required</i>		<a href="#">volume_group_snapshot</a>

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">volume_group_snapshot_response</a>
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Invalid Request	<a href="#">error_response</a>

## POST /volume\_group/{id}/clone

### Description

Clone a volume group. The clone volume group will be created on the same appliance as the source volume group. A clone of a volume group will result in a new volume group of **Clone** type. The clone will belong to the same family as the source volume group. When the source of a clone operation is a either primary or clone volume group,

- **source\_id** will be set to the identifier of the source volume group.
- **source\_time** will be set to the time at which the clone will be created.

When the source of a clone operation is a snapshot set,

- **source\_id** will be set to the `source_id` of the source snapshot set.
- **source\_time** will be set to the `source_time` of the source snapshot set.

The clone volume group will inherit the value of the **is\_write\_order\_consistent** property from the source volume group. A clone of a snapshot set is modeled as a clone of the snapshot set's source, created at the same time instant as when the source snapshot set was created.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the volume group.	string
Body	<b>body</b> <i>required</i>		<a href="#">volume_group_clone</a>

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">volume_group_clone_response</a>
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Invalid Request	<a href="#">error_response</a>

## POST /volume\_group/{id}/restore

### Description

Restore a volume group from a snapshot set. A primary or a clone volume group can only be restored from one of its immediate snapshot sets. A backup snapshot set of the target volume group will be created before restore is attempted. This behavior can be overridden by setting the **create\_backup\_snap** property to false. The profile for the backup snapshot set will be auto-generated unless a custom profile is specified. The auto-generated profile only initializes the name to an auto-generated, unique value. Other optional parameters are not specified. Restore operation is only supported if there are no membership changes between the target volume group and source snapshot set. You can restore a volume group even when the sizes of the volumes in the target

volume group have changed. This represents a case where the target volumes have been modified over time, but you want to revert them back to their old state captured in the source snapshot set. When a volume group is restored,

- **source\_time** is set to the **source\_time** of the snapshot set it is being restored from.

A volume group that is acting as the destination in a replication session cannot be restored.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the volume group.	string
Body	<b>body</b> <i>required</i>		<a href="#">volume_group_restore</a>

### Responses

HTTP Code	Description	Schema
200	Success	<a href="#">volume_group_restore_response</a>
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Invalid Request	<a href="#">error_response</a>

## POST /volume\_group/{id}/refresh

### Description

Refresh the contents of a volume group (the target volume group) from another volume group in the same family. A backup snapshot set of the target volume group will be created before refresh is attempted. This behavior can be overridden by setting the **create\_backup\_snap** property to false. The profile for the backup snapshot set will be auto-generated, unless a custom profile is specified. The auto-generated profile only initializes the name to an auto-generated, unique value. Other optional parameters are not specified. The table below outlines supported modes of operation and resulting updates to **source\_id** and **source\_time** attributes of **protection\_data**. |Target volume group|Source volume group|New source\_id|New source\_time| |-|-|-| |Primary (P1) |Clone (C1)|id of clone (C1)|Current time| |Primary (P1) |snapshot set (C1S1) of clone (C1)|id of source snapshot set (C1S1)|source\_time of source snapshot set (C1S1)| |Clone (C1) |Primary (P1)|id of

primary (P1)|Current time| |Clone (C1) |snapshot set (S1) of primary (P1)|id of source snapshot set (S1)|source\_time of source snapshot set (S1)| |Clone (C1) |Clone (C2)|id of source clone(C2)|Current time| |Clone (C1) |snapshot set (C2S1) of clone (C2)|id of source snapshot set (C2S1)|source\_time of source snapshot set (C2S1)| Refresh operation is only supported if there are no membership changes between the source and target volume groups of the refresh operation. You can refresh a volume group even when the sizes of the volumes in the target volume group have changed. This represents a case where the source volumes have been modified over time and you want to refresh the target to the new state of the source volume group. A volume group that is acting as the destination in a replication session cannot be refreshed.

## Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the volume group.	string
Body	<b>body</b> <i>required</i>		<a href="#">volume_group_refresh</a>

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">volume_group_refresh_response</a>
204	Success	No Content
400	Invalid request	<a href="#">error_response</a>
404	Not Found	<a href="#">error_response</a>
422	Invalid Request	<a href="#">error_response</a>

## x509\_certificate

Use these resource types to manage SSL/TLS certificates. The X509 Certificate service is part of the credential store services. An X509 Certificate in this service represents a certificate chain, composed of the certificate of each individual member in ordered sequence. If the X509 Certificate is used as a server certificate or client certificate, it also includes the private key.

### GET /x509\_certificate



## Description

Query to list X509 Certificates instances. This resource type collection query does not support filtering, sorting or pagination

## Responses

HTTP Code	Description	Schema
200	Success	< <a href="#">x509_certificate_instance</a> > array
206	Partial content of x 509 certificate instance objects	< <a href="#">x509_certificate_instance</a> > array

## Produces

- `application/json`

## GET /x509\_certificate/{id}

### Description

Query a specific X509 Certificate instance.

### Parameters

Type	Name	Description	Schema
Path	<b>id</b> <i>required</i>	Unique identifier of the X509 Certificate.	string

## Responses

HTTP Code	Description	Schema
200	Success	<a href="#">x509_certificate_instance</a>
404	Not Found	<a href="#">error_response</a>

## Produces

- `application/json`

## POST /x509\_certificate/exchange

### Description

Exchange certificates between two clusters. Add CA certificates to the trust store of each cluster and assign roles to the client certificates. After this process, certificate-based authentication can be used for communication between clusters. This exchange REST API can only be triggered with service Replication\_HTTP.

### Parameters

Type	Name	Description	Schema
Body	<b>body</b> <i>required</i>	Request body.	<a href="#">x509_certificate_exchange</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

### Produces

- [application/json](#)

## POST /x509\_certificate/decommission

### Description

Decommission x509 certificates for one service type (currently only Replication\_HTTP is supported) of one scope (for example remote system)

### Parameters

Type	Name	Description	Schema
Body	<b>body</b> <i>required</i>	Request body.	<a href="#">x509_certificate_decommission</a>

### Responses

HTTP Code	Description	Schema
204	Success	No Content
400	Invalid Request	<a href="#">error_response</a>
422	Operation Failed	<a href="#">error_response</a>

### Produces

- [application/json](#)

## Definitions

### ActivePathEnum

Active path of the import host volume. Valid values are:

#### None

No active path available.

#### Source

Current IO path is set to source.

#### Destination

Current IO path is set to destination.

*Type* : enum (None, Source, Destination)

### AlertStateEnum

Alert State Enum with values - Active and Cleared.

*Type* : enum (ACTIVE, CLEARED)

### ArrayTypeEnum

Product type of the storage system. Valid values are:

#### Unknown

Product type is unknown to PowerStore.

#### SC

Storage Center.

## **PS**

Peer Storage Group.

## **VNX**

VNX.

## **Unity**

Unity.

*Type* : enum (Unknown, SC, PS, VNX, Unity)

# **AuditEventTypeEnum**

Type of audit event.

## **Authentication**

All the authentication events on the system.

## **Authorization**

All the authorization events on the system.

## **Config**

All the set operations on the system. Example: POST, PATCH, DELETE.

## **System**

All the system level operations.

## **Logout**

All the logging out events on the system.

*Type* : enum (Authentication, Authorization, Config, System, Logout)

# **BondingModeEnum**

Bond mode.

## **LACP**

Uses an IEEE 802.3ad dynamic link aggregation policy. Aggregation groups share the same speed and duplex settings. This mode transmits and receives network traffic on all slaves in the active aggregator.

*Type* : enum (LACP)

# **CGImportableCriteriaEnum**

Consistency group import criteria. Values are:

**Ready**

The consistency group is ready for nondisruptive import.

**Ready\_For\_Agentless\_Import**

The consistency group is ready for agentless import.

**In\_Progress**

Import is in progress.

**Members\_Not\_Ready**

The member or members of the consistency group are not ready for import.

**No\_Members**

There are no members in the consistency group.

**Max\_Members**

The maximum number of members for a consistency group has been exceeded.

**Not\_In\_Sync**

The array must be refreshed.

**Imported**

Import is complete.

**Incompatible\_Firmware**

The software version on the source array is not compatible.

**Undetermined**

The import status cannot be determined due to an internal error. Contact technical support.

*Type* : enum (Ready, In\_Progress, Members\_Not\_Ready, No\_Members, Max\_Members, Not\_In\_Sync, Imported, Incompatible\_Firmware, Undetermined)

## CHAPModeEnum

Available CHAP modes that describe or set the iSCSI CHAP mode for the entire cluster.

**Disabled**

CHAP is not used in the cluster

**Single**

CHAP is being used to authenticate the initiator

**Mutual**

CHAP is used to authenticate both the initiator and target

*Type* : enum (Disabled, Single, Mutual)

## ClusterStateEnum

Possible cluster states. \* Unconfigured\_Faulted - This is single appliance that is not in a cluster and Hardware is in faulted state. \* Unconfigured - This is a single appliance that is not in a cluster. \* Configured - Cluster is configured and operational. \* Configuring - Cluster is in the process of initial setup. \* Expanding - Appliance(s) are being added to the cluster. \* Removing - Appliance(s) are being removed from the cluster. \* Clustering\_Failed - This is a single appliance that failed an attempt to join a cluster.

*Type* : enum (Unconfigured\_Faulted, Unconfigured, Configuring, Configured, Expanding, Removing, Clustering\_Failed)

## CopySessionTypeEnum

Session types.

*Type* : enum (import\_session, migration\_session, replication\_session)

## DataConnectionStateEnum

Possible data connection states of a remote system:

### OK

Normal conditions.

### Partial\_Data\_Connection\_Loss

Partial data connection loss.

### Complete\_Data\_Connection\_Loss

Complete data connection loss.

### Status\_Not\_Available

Status not available.

### No\_Targets\_Discovered

No targets discovered.

### Initializing

Initializing

*Type* : enum (OK, Partial\_Data\_Connection\_Loss, Complete\_Data\_Connection\_Loss, Status\_Not\_Available, No\_Targets\_Discovered, Initializing)

## DayOfWeekEnum

Days of the week. Valid values are:

**Monday**

Monday

**Tuesday**

Tuesday

**Wednesday**

Wednesday

**Thursday**

Thursday

**Friday**

Friday

**Saturday**

Saturday

**Sunday**

Sunday

**Unknown**

Day of week is unknown to PowerStore.

*Type* : enum (Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday, Unknown)

## DaysOfWeekEnum

Days of the week.

*Type* : enum (Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday)

## EthPortSpeedEnum

Supported Ethernet front-end port transmission speeds. For the `current_speed` attribute, these values show the current transmission speed on the port. For the `requested_speed` attribute, these values show the transmission speed set by the user. A requested speed of Auto means that the current speed value will be automatically detected. If this file is updated, also update `FrontEndPortSpeedEnum.yaml`

**Auto**

the speed value is automatically detected

**10\_Mbps**

10 Megabits per second

**100\_Mbps**

100 Megabits per second

### **1\_Gbps**

1 Gigabits per second

### **10\_Gbps**

10 Gigabits per second

### **25\_Gbps**

25 Gigabits per second

### **40\_Gbps**

40 Gigabits per second

*Type* : enum (Auto, 10\_Mbps, 100\_Mbps, 1\_Gbps, 10\_Gbps, 25\_Gbps, 40\_Gbps)

## **FcPortSpeedEnum**

Possible Fibre Channel port speeds. For the `current_speed` attribute, these values show the current transmission speed on the port. For the `requested_speed` attribute, these values show the transmission speed set by the user. A requested speed of Auto means that the current speed value will be automatically detected. If this file is updated, also update `FrontEndPortSpeedEnum.yaml`

### **Auto**

the speed value is automatically detected

### **4\_Gbps**

4 Gigabits per second

### **8\_Gbps**

8 Gigabits per second

### **16\_Gbps**

16 Gigabits per second

### **32\_Gbps**

32 Gigabits per second

*Type* : enum (Auto, 4\_Gbps, 8\_Gbps, 16\_Gbps, 32\_Gbps)

## **FileDNSTransportEnum**

Transport used when connecting to the DNS Server:

### **UDP**

DNS uses the UDP protocol (default)

### **TCP**

DNS uses the TCP protocol



Type : enum (UDP, TCP)

## FileInterfaceRoleEnum

### Production

This type of network interface is used for all file protocols and services of a NAS server. This type of interface is inactive while a NAS server is in destination mode.

### Backup

This type of network interface is used only for NDMP/NFS backup or disaster recovery testing. This type of interface is always active in all NAS server modes.

Type : enum (Production, Backup)

## FileInterfaceRouteOperationalStatusEnum

File interface route Operational Status:

### Ok

the route is working fine.

### Invalid\_IP\_Version

source interfaces have a different IP protocol version than the route.

### Invalid\_Source\_Interface

no source interfaces set up on the system.

### Invalid\_Gateway

source interfaces in a different subnet than the gateway.

### Not\_Operational

the route is not operational.

Type : enum (Ok, Invalid\_IP\_Version, Invalid\_Source\_Interface, Invalid\_Gateway, Not\_Operational)

## FileLDAPAuthenticationTypeEnum

Authentication type for the LDAP server.

### Anonymous

Anonymous authentication means no authentication occurs and the NAS Server uses an anonymous login to access the LDAP-based directory server.

### Simple

Simple authentication means the NAS Server must provide a bind distinguished name and password to access the LDAP-based directory server.

## **Kerberos**

Kerberos authentication means the NAS Server uses a KDC to confirm the identity when accessing the Active Directory.

*Type* : enum (Anonymous, Simple, Kerberos)

## **FileLDAPProtocolEnum**

Indicates whether the LDAP protocol uses SSL for secure network communication. SSL encrypts data over the network and provides message and server authentication.

### **LDAP**

LDAP protocol without SSL.

### **LDAPS**

(Default) LDAP protocol with SSL. When you enable LDAPS, make sure to specify the appropriate LDAPS port (usually port 636) and to upload an LDAPS trust certificate to the LDAP server.

*Type* : enum (LDAP, LDAPS)

## **FileLDAPSchemaTypeEnum**

LDAP server schema type.

### **RFC2307**

OpenLDAP/iPlanet schema.

### **Microsoft**

Microsoft Identity Management for UNIX (IDMU/SFU) schema.

### **Unknown**

Unknown protocol.

*Type* : enum (RFC2307, Microsoft, Unknown)

## **FileQuotaStateEnum**

State of the user quota or tree quota record period.

### **OK**

No quota limits are exceeded.

### **Soft\_Exceeded**

Soft limit is exceeded, and grace period is not expired.

### **Soft\_Exceeded\_And\_Expired**

Soft limit is exceeded, and grace period is expired.

## **Hard\_Reached**

Hard limit is reached.

*Type* : enum (Ok, Soft\_Exceeded, Soft\_Exceeded\_And\_Expired, Hard\_Reached)

# **FileSystemAccessPolicyEnum**

File system security access policies. Each file system uses its access policy to determine how to reconcile the differences between NFS and SMB access control. Selecting an access policy determines which mechanism is used to enforce file security on the particular file system.

## **Native**

Native Security.

## **UNIX**

UNIX Security.

## **Windows**

Windows Security.

*Type* : enum (Native, UNIX, Windows)

# **FileSystemFolderRenamePolicyEnum**

File system folder rename policies for the file system with multiprotocol access enabled. These policies control whether the directory can be renamed from NFS or SMB clients when at least one file is opened in the directory, or in one of its child directories.

## **All\_Allowed**

All protocols are allowed to rename directories without any restrictions.

## **SMB\_Forbidden**

A directory rename from the SMB protocol will be denied if at least one file is opened in the directory or in one of its child directories.

## **All\_Forbidden**

Any directory rename request will be denied regardless of the protocol used, if at least one file is opened in the directory or in one of its child directories.

*Type* : enum (All\_Allowed, SMB\_Forbidden, All\_Forbidden)

# **FileSystemLockingPolicyEnum**

File system locking policies. These policy choices control whether the NFSv4 range locks are honored. Because NFSv3 is advisory by design, this policy specifies that the NFSv4 locking feature behaves like NFSv3 (advisory mode), for backward compatibility with applications expecting an advisory locking scheme.

### **Advisory**

No lock checking for NFS and honor SMB lock range only for SMB.

### **Mandatory**

Honor SMB and NFS lock range.

*Type* : enum (Advisory, Mandatory)

## **FileSystemSnapshotAccessTypeEnum**

Indicates whether the snapshot directory or protocol access is granted to the file system snapshot.

### **Snapshot**

Snapshot access is via the .snapshot folder in the file system.

### **Protocol**

Protocol access is via normal file shares. Protocol access is not provided by default - the NFS and/or SMB share must be created explicitly for the snapshot.

*Type* : enum (Snapshot, Protocol)

## **FileSystemSnapshotCreatorTypeEnum**

Enumeration of possible snapshot creator types.

### **Scheduler**

Created by a snapshot schedule.

### **User**

Created by a user.

### **External\_VSS**

Created by Windows Volume Shadow Copy Service (VSS) to obtain an application consistent snapshot.

### **External\_NDMP**

Created by an NDMP backup operation.

### **External\_Restore**

Created as a backup snapshot before a snapshot restore.

### **External\_Replication\_Manager**

Created by Replication Manager.

### **Snap\_CLI**

Created inband by SnapCLI.

## AppSync

Created by AppSync.

*Type* : enum (Scheduler, User)

## FileSystemTypeEnum

### Primary

Normal file system or clone.

### Snapshot

Snapshot of a file system.

*Type* : enum (Primary, Snapshot)

## ForecastMetricTypeEnum

Metric type to be forecast.

*Type* : enum (Physical\_Space\_Used\_One\_Day)

## ForecastTimeToFullStatusEnum

Type of alert indicated for object based on projected time to full.

### OK

Time to full value is greater than 28 days. No alert indicated.

### Minor

Time to full value is less than or equal to 28 days but greater than 14 days. Minor alert indicated.

### Major

Time to full value is less than or equal to 14 days. Major alert indicated.

### None

There is insufficient forecast data to project time to full to at least 28 days. No alert indicated, but available data cannot guarantee **OK** status.

*Type* : enum (OK, Minor, Major, None)

## FrontEndPortConnectionTypeEnum

Type of connector supported by the port. Current values are:

### Unknown

Unknown Connector

### SC

Subscriber Connector

**FC\_Style1\_Copper**

Fibre Channel Style 1 Copper Connector

**FC\_Style2\_Copper**

Fibre Channel Style 1 Copper Connector

**BNC\_TNC**

Bayonet/Threaded Neill-Concelman Connector

**FC\_Coaxial\_Headers**

Fibre Channel Coaxial Headers Connector

**FiberJack**

Fiber Jack Connector

**LC**

Lucent Connector

**MT\_RJ**

Mechanical Transfer - Registered Jack Connector

**MU**

Multiple Optical Connector

**SG**

SG Connector

**Optical\_Pigtail**

Optical Pigtail Connector

**HSSDC\_II**

High Speed Serial Data Connector

**Copper\_Pigtail**

Copper Pigtail Connector

**RJ45**

RJ45 Connector

**No\_Separable**

No Separable Connector

**MXC\_2x16**

MXC 2x16 Connector

*Type* : enum (Unknown, SC, FC\_Style1\_Copper, FC\_Style2\_Copper, BNC\_TNC, FC\_Coaxial\_Headers, FiberJack, LC, MT\_RJ, MU, SG, Optical\_Pigtail, HSSDC\_II, Copper\_Pigtail, RJ45, No\_Separable,

MXC\_2x16)

## HAOSTypeEnum

Operating system of the import host system. Valid values are:

### Windows

Windows.

### Linux

Linux.

### ESXi

ESXi.

### Unknown

Operating system of the host system is unknown to PowerStore.

*Type* : enum (Windows, Linux, ESXi, Unknown)

## HardwareDriveEncryptionStatusEnum

Indicates whether the drive is currently encrypted or not. Available on the Drive hardware type. Current statuses are:

### Not\_Supported

Drive does not support encryption.

### Supported\_Unlocked

Drive supports encryption but is not configured.

### Supported\_Locked

Drive supports encryption and is locked.

### Supported\_Locked\_Cluster\_PIN

Drive supports encryption and is configured.

### Supported\_Locked\_Out

Drive supports encryption and is locked out.

### Supported\_Locked\_Foreign

Drive supports encryption and is locked with an unknown PIN.

### Supported\_Processing

Drive supports encryption and is being processed.

### Disabled

Drive encryption is disabled.

*Type* : enum (Not\_Supported, Supported\_Unlocked, Supported\_Locked, Supported\_Locked\_Cluster\_PIN, Supported\_Locked\_Out, Supported\_Locked\_Foreign, Supported\_Processing, Disabled)

## HardwareDriveFIPSStatusEnum

FIPS compliance level. Available on the Drive hardware type. Current compliance levels are:

### **FIPS\_Compliance\_None**

Drive has no FIPS compliance.

### **FIPS\_Compliance\_Level\_1**

Drive has Level 1 FIPS 140-2 compliance.

### **FIPS\_Compliance\_Level\_2**

Drive has Level 2 FIPS 140-2 compliance.

### **FIPS\_Compliance\_Invalid**

Drive has invalid FIPS compliance.

*Type* : enum (FIPS\_Compliance\_None, FIPS\_Compliance\_Level\_1, FIPS\_Compliance\_Level\_2, FIPS\_Compliance\_Invalid)

## HardwareDriveTypeEnum

Type of drive. Available on the Drive hardware type. Current types are:

- Unknown

### **SAS\_SSD**

SAS-connected SSD in an Expansion Enclosure.

### **NVMe\_SCM**

NVME-Connected Storage Class Memory.

### **NVMe\_NVRAM**

NVME-Connected Non-volatile RAM.

### **NVMe\_SSD**

NVME-Connected SSD.

*Type* : enum (Unknown, SAS\_SSD, NVMe\_SCM, NVMe\_NVRAM, NVMe\_SSD)

## HardwareLifecycleStateEnum

Lifecycle state of the Hardware. Current values are:



**Uninitialized**

System is starting up.

**Healthy**

Hardware is healthy.

**Initializing**

System is starting up.

**Failed**

Hardware has failed.

**Disconnected**

Hardware was removed from the system.

**Prepare\_Failed**

Transient state used during startup.

**Trigger\_Update**

Transient state used during startup.

**Empty**

No hardware present in this location.

*Type* : enum (Uninitialized, Healthy, Initializing, Failed, Disconnected, Prepare\_Failed, Trigger\_Update, Empty)

## HardwareSFPConnectorTypeEnum

Connector type. Available on the SFP hardware type. Current types are:

**Unknown**

Unknown Connector

**SC**

Subscriber Connector

**FC\_Style1\_Copper**

Fibre Channel Style 1 Copper Connector

**FC\_Style2\_Copper**

Fibre Channel Style 1 Copper Connector

**BNC\_TNC**

Bayonet/Threaded Neill-Concelman Connector

**FC\_Coaxial\_Headers**

Fibre Channel Coaxial Headers Connector

**FiberJack**

Fiber Jack Connector

**LC**

Lucent Connector

**MT\_RJ**

Mechanical Transfer - Registered Jack Connector

**MU**

Multiple Optical Connector

**SG**

SG Connector

**Optical\_Pigtail**

Optical Pigtail Connector

**HSSDC\_II**

High Speed Serial Data Connector

**Copper\_Pigtail**

Copper Pigtail Connector

**RJ45**

RJ45 Connector

**No\_Separable**

Non-seperable Connector

**MXC\_2x16**

MXC 2x16 Connector

*Type* : enum (Unknown, SC, FC\_Style1\_Copper, FC\_Style2\_Copper, BNC\_TNC, FC\_Coaxial\_Headers, FiberJack, LC, MT\_RJ, MU, SG, Optical\_Pigtail, HSSDC\_II, Copper\_Pigtail, RJ45, No\_Separable, MXC\_2x16)

## HardwareSFPModeEnum

SFP mode. Available on the SFP hardware type. Current modes are:

**Unknown**

This SFP has unknown support.

**Multi\_Mode**

This SFP supports multi-mode fiber.

**Single\_Mode**

This SFP supports single-mode fiber.

Type : enum (Unknown, Multi\_Mode, Single\_Mode)

## HardwareSFPSpeedEnum

Supported speed. Available on the SFP hardware type. Current supported speeds are:

### Auto

Automatically selected link speed

### 4\_Gbps

4 Gigabits per second

### 8\_Gbps

8 Gigabits per second

### 16\_Gbps

16 Gigabits per second

### 32\_Gbps

32 Gigabits per second

### 10\_Mbps

10 Megabits per second

### 100\_Mbps

100 Megabits per second

### 1\_Gbps

1 Gigabit per second

### 10\_Gbps

10 Gigabits per second

### 25\_Gbps

25 Gigabits per second

### 40\_Gbps

40 Gigabits per second

Type : enum (Auto, 4\_Gbps, 8\_Gbps, 16\_Gbps, 32\_Gbps, 10\_Mbps, 100\_Mbps, 1\_Gbps, 10\_Gbps, 25\_Gbps, 40\_Gbps)

## HardwareSFPSupportedProtocolEnum

Supported protocol. Available on the SFP hardware type. Current protocols are:

### **Unknown**

This SFP has unknown protocol support.

### **FC**

This SFP supports Fibre Channel.

### **Ethernet**

This SFP supports Ethernet.

### **FC\_Ethernet**

This SFP supports Fibre Channel or Ethernet.

### **SAS**

This SFP supports SAS for connections to Expansion Enclosures.

*Type* : enum (Unknown, FC, Ethernet, FC\_Ethernet, SAS)

## **HardwareStatusLEDStateEnum**

State of the status LED of the hardware. The LED is On when there is a hardware fault. Current values are:

### **Off**

Hardware Status LED is turned off.

### **On**

Hardware Status LED is turned on.

*Type* : enum (Off, On)

## **HardwareTypeEnum**

The type of hardware component. Current types are:

### **Appliance**

The System including the Base Enclosure and optional Expansion Enclosures.

### **Base\_Enclosure**

The enclosure containing 2 Nodes and 25 NVME drive slots.

### **Node**

The component that contains the processors and DIMMs.

### **Expansion\_Enclosure**

The enclosures that contain additional SAS storage.

### **Power\_Supply**

The AC Power Supply that powers each Node.

**IO\_Module**

The component that provides front-end I/O connectivity to each Node.

**Link\_Control\_Card**

The IO card that provides SAS Connectivity to the Expansion Enclosure.

**SFP**

The Small Form-factor Pluggable (SFP) that is used for networking.

**Battery**

The internal battery backup used by each Node.

**DIMM**

The memory sticks that are installed in each Node.

**M2\_Drive**

The internal M.2 SATA drive used for Node boot and recovery.

**Fan**

The fan module that provides cooling to the Node.

**Drive**

The NVME drives installed in the Base Enclosure or the SAS drives installed in an Expansion Enclosure.

*Type* : enum (Appliance, Node, Base\_Enclosure, Expansion\_Enclosure, Power\_Supply, IO\_Module, Link\_Control\_Card, SFP, Battery, DIMM, M2\_Drive, Fan, Drive)

## HostAgentStatusEnum

Status of the import host system. Valid values are:

**Unknown**

Agent status is unknown.

**Running**

Agent is up and running.

**Conflict\_Detected**

Agent detected that there are multiple MPIOs installed on the host and Destination Powerstore MPIO is not able to claim destination device as some other MPIO has already claimed it.

**Version\_Unsupported**

Agent detected that the OS or any other dependent component does not satisfy the version as expected by the it.

*Type* : enum (Unknown, Running, Conflict\_Detected, Version\_Unsupported)

# HostAgentTypeEnum

Type of import host system. Valid values are:

## **EQL**

EQL MPIO.

## **Native\_MPIO**

Native MPIO.

## **Power\_Path**

POWER PATH MPIO.

## **Unknown**

Type of host agent is unknown to PowerStore.

*Type* : enum (EQL, Native\_MPIO, Power\_Path, Unknown)

# HostInitiatorProtocolTypeEnum

Protocol type of the import host initiator. Valid values are:

## **Other**

Protocol type is other.

## **iSCSI**

Protocol type is internet SCSI.

## **FC**

Protocol type is Fibre Channel.

## **FCoE**

Protocol type is Fibre Channel over Ethernet.

## **Unknown**

Protocol type is unknown to PowerStore.

*Type* : enum (Other, iSCSI, FC, FCoE, Unknown)

# ImportDestinationResourceTypeEnum

Storage resource type of the import destination. Values are: \* volume - The destination resource of the import session is a volume. \* volume\_group - The destination resource of the import session is a volume group.

*Type* : enum (volume, volume\_group)

## ImportOperationStatusEnum

Migration state of the import host volume. Valid values are:

### **Import\_Completed**

Import operation was successful.

### **Cancel\_Completed**

Cancel operation was successful.

### **Import\_Aborted**

Aborted the ongoing import.

### **Cancel\_Aborted**

Aborted the ongoing cancel operation.

### **Cancel\_Forced**

Aborted the ongoing cancel operation.

### **None**

Migration state is not known to PowerStore.

*Type* : enum (Import\_Completed, Cancel\_Completed, Import\_Aborted, Cancel\_Aborted, Cancel\_Forced, None)

## ImportPsgroupScheduleStatusEnum

Snapshot schedule status. Valid values are:

### **Enabled**

Snapshot schedule is enabled.

### **Disabled**

Snapshot schedule is disabled.

### **Expired**

Snapshot schedule is expired.

*Type* : enum (Enabled, Disabled, Expired)

## ImportPsgroupScheduleTypeEnum

Snapshot schedule frequency. Valid values are:

### **Once**

Take snapshot only once.

**Hourly**

Take snapshot hourly.

**Daily**

Take snapshot on a daily basis.

**Weekly**

Take snapshot on a weekly basis.

**Monthly**

Take snapshot on a monthly basis.

Type : enum (Once, Hourly, Daily, Weekly, Monthly)

## ImportSessionStateEnum

Import session states

**Scheduled**

Indicates that a user scheduled the import to run at a later time. The import remains in this state and waits until the schedule expires.

**Paused**

Indicates that the data copy between the source and destination volumes is paused.

**Queued**

Indicates that all imports are queued and run in a First In First Out (FIFO) order. This occurs when there are more active import sessions than supported.

**In\_Progress**

Indicates that a queued import session is now in progress.

**Mirror\_Enabled**

Indicates that an import session has completed setting up the entities required to import data from the source resource.

**Ready\_To\_Start\_Copy**

Indicates that an import session is ready to start the data copy operation from the source resource.

**Copy\_In\_Progress**

Indicates that the data copy between the source and destination storage systems has started. The data copy runs as a background job and updates the import session percentage complete and estimated time left for the copy. Host IOs are pointed to PowerStore in this state. The import process keeps the source and destination volumes or consistency groups volume in sync by doing IO forwarding.



**Ready\_For\_Cutover**

Indicates that you can commit the import. The import process moves to this state after it successfully copies data from the source volume or consistency group.

**Cutover\_In\_Progress**

Indicates that the cutover of volumes that are part of a consistency group is in progress.

**Import\_Completed**

Indicates that all operations completed successfully for a given import after a commit. In this state, the source volume is no longer mapped to the host and all stale paths are cleaned up.

**Cancelled**

Indicates that a user forcefully cancelled the import.

**Failed**

Indicates that there was an error during import. The appropriate error message is returned in the `error_response` object.

**Cancel\_Failed**

Indicates that an attempt to cancel the import of a volume failed in a consistency group import.

**Cancel\_In\_Progress**

Indicates that a cancel is in progress.

**Cleanup\_In\_Progress**

Indicates that the import of one or more volumes in a consistency group failed. When this occurs, you must roll back the import of the other volumes of the consistency group by executing a Cancel operation on each volume.

**Cleanup\_Failed**

Indicates that there was an error while cleaning up the consistency group.

**Invalid**

Indicates that an import session is in an unexpected state.

**Cleanup\_Required**

Indicates that there was an error while cleaning up the import or consistency group that requires user intervention to bring back host applications.

**Import\_Completed\_With\_Errors**

Indicates that there was a mirror failure for one or more members while committing a consistency group due to which members were partially committed. The failed members were cancelled.

**Import\_Cutover\_Incomplete**

Indicates that one or more members couldn't be committed successfully resulting in partial commit of the consistency group. Commit should be tried again on the consistency group.

*Type* : enum (Scheduled, Paused, Queued, In\_Progress, Mirror\_Enabled, Ready\_To\_Start\_Copy, Copy\_In\_Progress, Ready\_For\_Cutover, Cutover\_In\_Progress, Import\_Completed, Cancelled, Failed, Cancel\_Failed, Cancel\_In\_Progress, Cleanup\_In\_Progress, Cleanup\_Failed, Invalid, Cleanup\_Required, Import\_Completed\_With\_Errors, Import\_Cutover\_Incomplete)

## ImportStatusEnum

Migration state of the volume. Valid values are:

### **None**

Volume is not migrated.

### **Normal**

Volume state is normal.

### **Prepared**

Volume is prepared for migration.

### **Disabled\_For\_IO**

Volume is disabled for IO from host.

### **In\_Progress**

Volume migration is in progress.

### **Completed**

Volume is migrated.

### **Aborted**

Volume migration is aborted

### **Unknown**

Volume migration state is unknown to PowerStore.

*Type* : enum (None, Normal, Prepared, Disabled\_For\_IO, In\_Progress, Aborted, Completed, Unknown)

## InitiatorProtocolTypeEnum

Protocol type of the host initiator.

### **iSCSI**

An iSCSI initiator.

### **FC**

A Fibre Channel initiator.

*Type* : enum (iSCSI, FC)

# IoPriorityEnum

The I/O priority for quality of service rules.

*Type* : enum (Low, Medium, High)

# IpPortUsageEnum

IP port usages.

## Management

Can be used for the public management network.

## ISCSI

Can be used for the public storage network.

## ISCSI\_Default

Is used for default storage connections and cannot be uscaled.

## External\_Replication

Can be used for the external data mobility traffic.

*Type* : enum (Management, ISCSI, ISCSI\_Default, External\_Replication)

# IpPurposeTypeEnum

Network IP address purpose.

*Type* : enum (Mgmt\_Cluster\_Floating, Mgmt\_Appliance\_Floating, Mgmt\_Node\_CoreOS, Mgmt\_Node\_Host, ICM\_Cluster\_Floating, ICM\_Appliance\_Floating, ICM\_Node\_CoreOS, Storage\_Global, Storage\_Iscsi\_Initiator, Storage\_Iscsi\_Target, Storage\_Cluster\_Floating, ICD\_Node, SDNAS\_Cluster\_Floating, SDNAS\_Node, SDNAS\_Node\_Serviceability, VMotion, Unused)

# IpVersionTypeEnum

IP protocol version.

*Type* : enum (IPv4, IPv6)

# JobStateEnum

Current status of the job.

*Type* : enum (PENDING, QUEUED, IN\_PROGRESS, COMPLETED, SKIPPED, UNRECOVERABLE\_FAILED, FAILED)

# LocationHistoryReasonEnum

Reason for storage resource relocation.

## **Initial**

Initial placement.

## **Manual**

Manual migration operation initiated by user.

## **Recommended**

Storage system recommended migration.

*Type* : enum (Initial, Manual, Recommended)

# MessageSeverityEnum

Message severity.

*Type* : enum (Info, Warning, Error)

# MetricsEntityEnum

An enum describing the various entities supported by metrics.

## **performance\_metrics\_by\_appliance**

Appliance performance metrics.

## **performance\_metrics\_by\_node**

Node performance metrics.

## **performance\_metrics\_by\_volume**

Volume performance metrics.

## **performance\_metrics\_by\_cluster**

Cluster performance metrics.

## **performance\_metrics\_by\_vm**

Virtual Machine performance metrics.

## **performance\_metrics\_by\_vg**

Storage performance metrics for all volumes in a volume group

## **performance\_metrics\_by\_fe\_fc\_port**

Frontend fibre channel port performance metrics.

## **performance\_metrics\_by\_fe\_eth\_port**

Frontend ethernet port performance metrics.

**performance\_metrics\_by\_fe\_eth\_node**

Frontend ethernet performance metrics for node.

**performance\_metrics\_by\_fe\_fc\_node**

Frontend fibre channel performance metrics for node.

**wear\_metrics\_by\_drive**

Drive wear metrics.

**space\_metrics\_by\_cluster**

Cluster space metrics

**space\_metrics\_by\_appliance**

Appliance space metrics

**space\_metrics\_by\_volume**

Volume space metrics

**space\_metrics\_by\_volume\_family**

Volume family space metrics

**space\_metrics\_by\_vm**

Virtual Machine space metrics

**space\_metrics\_by\_storage\_container**

Storage Container space metrics

**space\_metrics\_by\_vg**

Volume space metrics in a volume group

**copy\_metrics\_by\_appliance**

Appliance copy metrics

**copy\_metrics\_by\_cluster**

Cluster copy metrics

**copy\_metrics\_by\_vg**

Copy metrics for each volume group

**copy\_metrics\_by\_remote\_system**

Copy metrics for each remote system

**copy\_metrics\_by\_volume**

Copy metrics for each volume

**performance\_metrics\_by\_file\_system**

Performance metrics for the file system.

### **performance\_metrics\_smb\_by\_node**

Performance metrics for the SMB protocol global

### **performance\_metrics\_smb\_builtinclient\_by\_node**

Performance metrics for the SMB protocol built-in client

### **performance\_metrics\_smb\_branch\_cache\_by\_node**

Performance metrics for the SMB protocol Branch-Cache

### **performance\_metrics\_smb1\_by\_node**

Performance metrics for the SMB1 protocol basic

### **performance\_metrics\_smb1\_builtinclient\_by\_node**

Performance metrics for the SMB1 protocol built-in client

### **performance\_metrics\_smb2\_by\_node**

Performance metrics for the SMB2 protocol basic

### **performance\_metrics\_smb2\_builtinclient\_by\_node**

Performance metrics for the SMB2 protocol built-in client

### **performance\_metrics\_nfs\_by\_node**

Performance metrics for the NFS protocol

### **performance\_metrics\_nfsv3\_by\_node**

Performance metrics for the NFSv3 protocol

### **performance\_metrics\_nfsv4\_by\_node**

Performance metrics for the NFSv4 protocol

*Type* : enum (performance\_metrics\_by\_appliance, performance\_metrics\_by\_node, performance\_metrics\_by\_volume, performance\_metrics\_by\_cluster, performance\_metrics\_by\_vm, performance\_metrics\_by\_vg, performance\_metrics\_by\_fe\_fc\_port, performance\_metrics\_by\_fe\_eth\_port, performance\_metrics\_by\_fe\_eth\_node, performance\_metrics\_by\_fe\_fc\_node, wear\_metrics\_by\_drive, space\_metrics\_by\_cluster, space\_metrics\_by\_appliance, space\_metrics\_by\_volume, space\_metrics\_by\_volume\_family, space\_metrics\_by\_vm, space\_metrics\_by\_storage\_container, space\_metrics\_by\_vg, copy\_metrics\_by\_appliance, copy\_metrics\_by\_cluster, copy\_metrics\_by\_vg, copy\_metrics\_by\_remote\_system, copy\_metrics\_by\_volume, performance\_metrics\_by\_file\_system, performance\_metrics\_smb\_by\_node, performance\_metrics\_smb\_builtinclient\_by\_node, performance\_metrics\_smb\_branch\_cache\_by\_node, performance\_metrics\_smb1\_by\_node, performance\_metrics\_smb1\_builtinclient\_by\_node, performance\_metrics\_smb2\_by\_node, performance\_metrics\_smb2\_builtinclient\_by\_node, performance\_metrics\_nfs\_by\_node, performance\_metrics\_nfsv3\_by\_node, performance\_metrics\_nfsv4\_by\_node)

## **MetricsIntervalEnum**

Intervals of which metrics can be provided.

Type : enum (Twenty\_Sec, Five\_Mins, One\_Hour, One\_Day)

## MigrationRecommendationActionStateEnum

State of a recommended migration action.

### **Recommendation\_Created**

This action has been recommended, but no other action has been taken.

### **Migration\_Session\_Created**

A migration session was successfully created for this recommended action.

### **Migration\_Session\_Create\_Failed**

A migration session could not be created for this recommended action.

### **Migration\_Started**

The migration session for this recommended action was successfully started.

### **Migration\_Start\_Failed**

The migration session for this recommended action failed to start.

### **Migration\_Paused**

The migration session for this recommended action is paused.

### **Migration\_Error**

The migration session for this recommended action has failed.

### **Migration\_Successful**

The migration session for this recommended action has been successfully completed.

Type : enum (Recommendation\_Created, Migration\_Session\_Created, Migration\_Session\_Create\_Failed, Migration\_Started, Migration\_Start\_Failed, Migration\_Paused, Migration\_Error, Migration\_Successful)

## MigrationRecommendationPrimaryResourceTypeEnum

Specifies grouping mechanism for migration actions in a recommendation that identifies logically related migration actions. If a volume/virtual volume is attached to a host/virtual machine and the system selects all volumes/virtual volumes attached to the same host/virtual machine for migration, the type is set to host/virtual\_machine. If a volume/virtual volume is unattached or the system couldn't consider logical grouping, the group type is set to volume or virtual volume. For volume group objects, the scope of migration is always volumes\_group regardless of host attachment. The order of selection for primary resource types is: Resources without host/virtual\_machine connectivity. Resources with host/virtual\_machine connectivity. Resources in each of the above category are further ordered by decreasing cost of migration.

Valid scopes for migrations are:

**volume**

Standalone attached/unattached volume family.

**virtual\_volume**

Standalone attached/unattached virtual volume family.

**host**

Logical group of all volume families attached to a host.

**virtual\_machine**

Logical group of all virtual volume families attached to a virtual machine.

**volume\_group**

Volume group family with or without host attachment.

*Type* : enum (volume, virtual\_volume, host, virtual\_machine, volume\_group)

## MigrationRecommendationReasonEnum

Reason for migrating a specific resource.

**No\_Host\_Attached**

Resource is not attached to any host.

**No\_Virtual\_Machine\_Attached**

Resource is not attached to any virtual machine.

**Attached\_To\_Host**

Resource is attached to host.

**Attached\_To\_Virtual\_Machine**

Resource is attached to virtual machine.

**Volume\_Group\_Member**

Resource is a member of volume group.

**Unspecified**

Unspecified.

*Type* : enum (No\_Host\_Attached, No\_Virtual\_Machine\_Attached, Attached\_To\_Host, Attached\_To\_Virtual\_Machine, Volume\_Group\_Member, Unspecified)

## MigrationRecommendationStateEnum

State of a migration recommendation.



### **Recommendation\_Created**

Recommended actions meet all request parameters.

### **Some\_Actions\_Recommended**

Recommendation generated, but not all request parameters satisfied.

### **Migration\_Session\_Created**

Migration sessions were successfully created for each recommended migration action.

### **Migration\_Session\_Create\_Failed**

A migration session could not be created for at least one recommended recommended actions. When an error is encountered while creating one of the sessions, the session creation for remaining migration actions will be aborted and error is returned. Sessions which are already created for this recommendation will be rolled back. After completing the roll-back, recommendation and all actions will be restored to Recommendation\_Created state so that the recommendation can be applied again.

### **Migration\_Started**

All migration sessions successfully started.

### **Migration\_Start\_Failed**

At least one migration session failed to start. Even if start (sync) migration operation fails on one of the sessions, RB will continue and attempt to start all sessions within that recommendation. Error will be returned. There will not be a roll back for any sync operation.

### **Migration\_Paused**

At least one migration session for this recommendation is paused. Paused migration sessions can be resumed manually.

### **Migration\_Error**

At least one migration session for this recommendation has failed.

### **Migration\_Successful**

All migration sessions have been successfully completed.

*Type* : enum (Recommendation\_Created, Some\_Actions\_Recommended, Migration\_Session\_Created, Migration\_Session\_Create\_Failed, Migration\_Started, Migration\_Paused, Migration\_Error, Migration\_Successful)

## **MigrationRecommendationTypeEnum**

Type of request that generated a migration recommendation. Evacuate\_Appliance - A recommendation to evacuate space by auto selecting storage objects from an appliance using specified size.

*Type* : enum (Evacuate\_Appliance)

# MigrationResourceTypeEnum

Storage resource types eligible for migration.

Type : enum (volume, virtual\_volume, volume\_group)

# MigrationSessionStateEnum

Migration session states.

## Initializing

Migration session starts and stays in this state until the session initialization completes.

## Initialized

Migration session transitions to this state when session initialization completes.

## Synchronizing

Background copy is in progress.

## Idle

Migration session transitions to this state when initial background copy completes.

## Cutting\_Over

Final phase of the migration, when ownership of the volume, vVol, or application group is transferred to the new appliance.

## Deleting

Migration session is being deleted.

## Completed

Migration session is complete and it is safe to delete the session.

## Pausing

Migration session transitions to this state when the pause command is issued.

## Paused

Migration session is paused. User intervention is required to resume the session.

## System\_Paused

Migration session transitions to this state if it encounters any error. User may resume or delete the migration session after resolving the error.

## Resuming

Migration session background copy being resumed.

## Failed

Migration session encountered an error.

*Type* : enum (Initializing, Initialized, Synchronizing, Idle, Cutting\_Over, Deleting, Completed, Pausing, Paused, System\_Paused, Resuming, Failed)

## MigrationStateEnum

Migration status of a volume. Valid values are:

### **Legacy**

Volume state is normal.

### **Preparing**

Volume is prepared for migration.

### **Disabled\_For\_IO**

Volume is disabled for IO from host.

### **In\_Progress**

Volume migration is in progress.

### **Done**

Volume is migrated.

### **Aborted**

Volume migration is aborted

### **Not\_Applicable**

Volume migration state is not applicable when storage system supports only agentless import

### **Unknown**

Volume migration state is unknown to PowerStore.

*Type* : enum (Legacy, Preparing, Disabled\_For\_IO, In\_Progress, Done, Aborted, Not\_Applicable, Unknown)

## MonthOfYearEnum

Months of the year. Valid values are:

### **January**

January

### **February**

February

### **March**

March

**April**

April

**May**

May

**June**

June

**July**

July

**August**

August

**September**

September

**October**

October

**November**

November

**December**

December

**Unknown**

Month of year is unknown to PowerStore.

*Type* : enum (January, February, March, April, May, June, July, August, September, October, November, December, Unknown)

## **NASServerCurrentUnixDirectoryServiceEnum**

Define the Unix directory service used for looking up identity information for Unix such as UIDs, GIDs, net groups, and so on.

*Type* : enum (None, NIS, LDAP, Local\_Files, Local\_Then\_NIS, Local\_Then\_LDAP)

## **NASServerOperationalStatusEnum**

NAS server operational status:

**Stopped**

NAS server is stopped.

**Starting**

NAS server is starting.

**Started**

NAS server is started.

**Stopping**

NAS server is stopping.

**Failover**

NAS server has failed over.

**Degraded**

NAS server is degraded (running without backup).

**Unknown**

NAS server state is unknown.

*Type* : enum (Stopped, Starting, Started, Stopping, Failover, Degraded, Unknown)

## NFSExportDefaultAccessEnum

Default access level for all hosts that can access the Export.

**No\_Access**

Deny access to the Export for the hosts.

**Read\_Only**

Allow read only access to the Export for the hosts.

**Read\_Write**

Allow read write access to the Export for the hosts.

**Root**

Allow read write access to the Export for the hosts. Allow access to the Export for root user.

**Read\_Only\_Root**

Allow read only root access to the Export for the hosts.

*Type* : enum (No\_Access, Read\_Only, Read\_Write, Root, Read\_Only\_Root)

## NFSExportMinSecurityEnum

NFS enforced security type for users accessing an NFS Export.

**Sys**

Allow the user to authenticate with any NFS security types: UNIX, Kerberos, Kerberos with integrity, or Kerberos with encryption.

## **Kerberos**

Allow only Kerberos security for user authentication.

## **Kerberos\_With\_Integrity**

Allow only Kerberos with integrity and Kerberos with encryption security for user authentication.

## **Kerberos\_With\_Encryption**

Allow only Kerberos with encryption security for user authentication.

*Type* : enum (Sys, Kerberos, Kerberos\_With\_Integrity, Kerberos\_With\_Encryption)

# **NetworkTypeEnum**

Network type.

*Type* : enum (Management, Intra\_Cluster\_Management, Intra\_Cluster\_Data, Storage, VMotion)

# **NodeAffinityEnum**

This attribute shows which node will be advertised as the optimized IO path to the volume. It is initially set to System\_Select\_At\_Attach and can be modified to other values. When a volume is first attached to a host, if node\_affinity is System\_Select\_At\_Attach then the system will make the assignment to either System\_Selected\_Node\_A or System\_Selected\_Node\_B. The node\_affinity may be modified to one of System\_Select\_At\_Attach or Preferred\_Node\_A or Preferred\_Node\_B. Both System\_Selected\_Node\_A and System\_Selected\_Node\_B are reserved for system use only and cannot be set as the volume's node\_affinity.

Possible affinity for a volume.

## **System\_Select\_At\_Attach**

Volume currently has no node affinity, affinity will be assigned when the volume is first attached.

## **System\_Selected\_Node\_A**

System selected Node A as the optimized IO path to volume.

## **System\_Selected\_Node\_B**

System selected Node B as the optimized IO path to volume.

## **Preferred\_Node\_A**

Node A will always advertise as the optimized IO path to volume.

## **Preferred\_Node\_B**

Node B will always advertise as the optimized IO path to volume.

*Type* : enum (System\_Select\_At\_Attach, System\_Selected\_Node\_A, System\_Selected\_Node\_B, Preferred\_Node\_A, Preferred\_Node\_B)

## OSTypeEnum

Operating system of the host.

*Type* : enum (Windows, Linux, ESXi, AIX, HP-UX, Solaris)

## PhysicalSwitchConnectMethodEnum

Physical switch connect method type. Valid values are:

### SSH

Secure shell.

### SNMPv2c

SNMPv2 community string.

*Type* : enum (SSH, SNMPv2c)

## PhysicalSwitchPurposeEnum

Physical switch purpose in network. Possible purposes are:

### Data\_and\_Management

Physical switch for all data and management networks.

### Management\_Only

Physical switch for management network only.

*Type* : enum (Data\_and\_Management, Management\_Only)

## PolicyTypeEnum

Supported policy types.

### Protection

A protection policy, consisting of snapshot and replication rules.

### Performance

A performance policy, consisting of performance rules.

*Type* : enum (Protection, Performance)

## RPOEnum

Recovery point objective (RPO), which is the acceptable amount of data, measured in units of time, that may be lost in case of a failure.

*Type* : enum (Five\_Minutes, Fifteen\_Minutes, Thirty\_Minutes, One\_Hour, Six\_Hours, Twelve\_Hours,

One\_Day)

## RemoteSystemChapModeEnum

Challenge Handshake Authentication Protocol (CHAP) status:

- Disabled

### Single

Enabled for initiator authentication.

### Mutual

Enabled for initiator and target authentication.

*Type* : enum (Disabled, Single, Mutual)

## RemoteSystemLatencyEnum

Network latency choices for a remote system. Replication traffic can be tuned for higher efficiency depending on the expected network latency. This will only be used when the remote system type is PowerStore.

### Low

Less than 5 milliseconds.

### High

More than 5 milliseconds.

*Type* : enum (Low, High)

## RemoteSystemStateEnum

Possible remote system states:

### OK

Normal conditions.

### Update\_Needed

Verify and update needed to handle network configuration changes on the systems.

### Management\_Connection\_Lost

Management connection to the remote peer is lost.

*Type* : enum (OK, Update\_Needed, Management\_Connection\_Lost)

## RemoteSystemTypeEnum

Remote system connection type between the local system and the following remote systems:



**PowerStore**

PowerStore system

**Unity**

Unity import system

**VNX**

VNX import system

**PS\_Equallogic**

PS EqualLogic import system

**Storage\_Center**

Storage Center import system

**XtremIO**

XtremIO import system

*Type* : enum (PowerStore, Unity, VNX, PS\_Equallogic, Storage\_Center, XtremIO)

## ReplicatedResourceTypeEnum

Storage resource types eligible for replication protection:

**volume**

Replication session created on a volume. \* volume\_group - Replication session created on a volume group.

*Type* : enum (volume, volume\_group)

## ReplicationRoleEnum

Role of the replication session:

**Source**

The local resource is the source of the remote replication session. \* Destination - The local resource is the destination of the remote replication session.

*Type* : enum (Source, Destination)

## ReplicationStateEnum

State of the replication session:

**Initializing**

The replication session is being created. The status changes to OK after the replication session is created.

**OK**

No other operation. The replication session is operating normally.

**Synchronizing**

The replication session has started either a manual or automatic synchronization.

**System\_Paused**

Replication session operation has failed or was cancelled. User intervention required.

**Paused**

User paused the replication session.

**Paused\_For\_Migration**

Migration paused the replication session.

**Paused\_For\_NDU**

A non-disruptive upgrade paused the replication session.

**Resuming**

The replication session is resuming operation. The status changes to OK after the replication session is resumed.

**Failing\_Over**

A planned failover is in progress. The status changes to Failed\_Over after the replication session has failed over.

**Failing\_Over\_For\_DR**

An unplanned failover is in progress. The status changes to Failed\_Over after the replication session has failed over.

**Failed\_Over**

The replication session underwent a planned or unplanned failover. User intervention required.

**Reprotecting**

The replication session is being reprotected. The status changes to OK after the replication session has been reprotected.

**Partial\_Cutover\_For\_Migration**

Replication session created by internal migration has partially migrated the storage resource.

**Error**

Any other failure not specified.

*Type* : enum (Initializing, OK, Synchronizing, System\_Paused, Paused, Paused\_For\_Migration, Paused\_For\_NDU, Resuming, Failing\_Over, Failing\_Over\_For\_DR, Failed\_Over, Reprotecting)

## ResourceActionEnum

User-specified action to be performed on the given resource.

*Type* : enum (add\_members, attach, bind, cancel, cleanup, clone, create, create\_migration\_sessions, cutover, decommission, delete, detach, discover, download, drive\_repurpose, exchange, failover, forecast, generate, import\_snapshot\_profiles, import\_snapshot\_schedules, install, join, modify, mount, pause, ping, puhc, refresh, refresh\_quota, regenerate, remove\_members, replace, reprotect, restore, resume, retrieve, scale, snapshot, start\_migration\_sessions, sync, test, time\_to\_full, unjoin, unmount, update\_user\_mappings, upgrade, upload, upload\_certificate, upload\_config, upload\_file, upload\_keytab, verify)

## ResourceTypeEnum

Resource Type for the given resource.

*Type* : enum (alert, appliance, audit\_event, bond, chap\_config, cluster, discovered\_initiator, dns, email\_notify\_destination, eth\_port, event, fc\_port, file\_dns, file\_ftp, file\_interface, file\_interface\_route, file\_kerberos, file\_ldap, file\_ndmp, file\_nis, file\_system, file\_tree\_quota, file\_user\_quota, file\_virus\_checker, hardware, host, host\_group, host\_virtual\_volume\_mapping, host\_volume\_mapping, import\_host\_initiator, import\_host\_system, import\_host\_volume, import\_psgroup, import\_psgroup\_volume, import\_session, import\_storage\_center, import\_storage\_center\_consistency\_group, import\_storage\_center\_volume, import\_unity, import\_unity\_consistency\_group, import\_unity\_volume, import\_vnx\_array, import\_vnx\_consistency\_group, import\_vnx\_volume, ip\_pool\_address, ip\_port, job, keystore\_archive, license, local\_user, login\_session, maintenance\_window, metrics, migration\_recommendation, migration\_session, nas\_server, ndu, network, nfs\_export, nfs\_server, node, ntp, performance\_rule, physical\_switch, policy, remote\_system, replication\_rule, replication\_session, role, sas\_port, scheduler, security\_config, service\_config, service\_user, smb\_server, smb\_share, smtp\_config, snapshot\_rule, software\_installed, software\_package, storage\_container, vcenter, veth\_port, virtual\_machine, virtual\_volume, volume, volume\_group, x509\_certificate)

## SCStatusEnum

Status of an SC array. Valid values are:

### Up

Volume state is up.

### Down

Volume state is down.

### Degraded

Volume is in degraded state.

### Unknown

Volume migration state is unknown to PowerStore.

Type : enum (Up, Down, Degraded, Unknown)

## SMBShareOfflineAvailabilityEnum

Defines valid states of Offline Availability,

### Manual

Only specified files will be available offline.

### Documents

All files that users open will be available offline.

### Programs

Program will preferably run from the offline cache even when connected to the network. All files that users open will be available offline.

### None

Prevents clients from storing documents and programs in offline cache (default).

Type : enum (Manual, Documents, Programs, None)

## SasPortSpeedEnum

SAS port transmission speed.

### 3\_Gbps

3 Gigabits per second

### 6\_Gbps

6 Gigabits per second

### 12\_Gbps

12 Gigabits per second

Type : enum (3\_Gbps, 6\_Gbps, 12\_Gbps)

## ScScheduleTypeEnum

Available SC snapshot schedule types. Valid values are:

### Once

Take snapshot only once.

### Daily

Take snapshot hourly.

### **Weekly**

Take snapshot on a weekly basis.

### **Monthly**

Take snapshot on a monthly basis.

### **Unknown**

SC schedule type is unknown to PowerStore.

*Type* : enum (Once, Daily, Weekly, Monthly, Unknown)

## **ScSnapshotProfileTypeEnum**

Available SC snapshot profile types. Valid values are:

### **Standard**

Takes snapshots in series for all volumes associated with the snapshot.

### **Parallel**

Takes snapshots simultaneously for all volumes associated with the snapshot.

### **Consistent**

Halts IO and takes snapshots for all volumes associated with the snapshot.

### **Unknown**

SC snapshot profile type is unknown to PowerStore.

*Type* : enum (Standard, Parallel, Consistent, Unknown)

## **SeverityEnum**

Possible severities.

*Type* : enum (None, Info, Minor, Major, Critical)

## **SnapRuleIntervalEnum**

Interval between snapshots. Either the interval parameter or the time\_of\_day parameter may be set. Setting one clears the other parameter.

*Type* : enum (Five\_Minutes, Fifteen\_Minutes, Thirty\_Minutes, One\_Hour, Two\_Hours, Three\_Hours, Four\_Hours, Six\_Hours, Eight\_Hours, Twelve\_Hours, One\_Day)

## **SoftwarePackageStateEnum**

Software package state. Valid values are:

**Available**

The package is ready to be downloaded.

**Downloaded**

The package is downloaded and ready to install.

**Installing**

The package is being installed.

**Installed**

The package has been successfully installed.

**Install\_Failed**

Installing the package failed.

**Download\_Failed**

Downloading the package failed.

*Type* : enum (Available, Downloaded, Installing, Installed, Install\_Failed, Download\_Failed)

## SoftwarePackageTypeEnum

Software package type. Valid values are:

**Software\_Release**

A package containing a complete system software upgrade release.

**Disk\_Firmware**

A package containing disk firmware updates only, for some or all supported drive types.

**Hotfix**

A package containing high priority firmware updates.

**Language\_Pack**

A package containing additional language definitions.

*Type* : enum (Software\_Release, Disk\_Firmware, Hotfix, Language\_Pack)

## StorageCreatorTypeEnum

Creator type of the storage resource. \* User - A resource created by a user. \* System - A resource created by the replication engine. \* Scheduler - A resource created by the snapshot scheduler.

*Type* : enum (User, System, Scheduler)

# StorageElementTypeEnum

Storage element type being replicated:

## **volume**

Replicating storage element type for a volume.

## **virtual\_volume**

Replicating storage element type for a virtual volume.

*Type* : enum (volume, virtual\_volume)

# ThumbprintAlgorithmEnum

The thumbprint algorithm: - SHA-256 : SHA-256 algorithm

*Type* : enum (SHA-256)

# TransitConnectionStatusEnum

Possible transit connection statuses:

## **Login\_Success**

Login to target IP successful.

## **Authentication\_Failure**

Failed to authenticate the connection.

## **Connection\_Refused**

Connection was refused.

## **Login\_Timeout**

Login to target IP timed out.

## **Network\_Error**

Network error

## **General\_Failure**

Other failure not listed.

## **Login\_Success\_No\_Ports**

Login successful after discovery failure. Used only for PS EqualLogic systems.

## **Discovery\_Success**

Discovery of target IP successful.

## **Discovery\_Authentication\_Failure**

Authentication failure during discovery of target IP.

### **Discovery\_Connection\_Refused**

Connection was refused during discovery of target IP.

### **Discovery\_Timeout**

Discovery of target IP timed out.

*Type* : enum (Login\_Success, Authentication\_Failure, Connection\_Refused, Login\_Timeout, Network\_Error, General\_Failure, Login\_Success\_No\_Ports, Discovery\_Success, Discovery\_Authentication\_Failure, Discovery\_Connection\_Refused, Discovery\_Timeout)

## **UnityDayofWeekEnum**

Days of the week. Values are:

### **Sunday**

Sunday.

### **Monday**

Monday.

### **Tuesday**

Tuesday.

### **Wednesday**

Wednesday.

### **Thursday**

Thursday.

### **Friday**

Friday.

### **Saturday**

Saturday.

### **Unknown**

The day of week cannot be determined.

*Type* : enum (Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Unknown)

## **UnityHealthEnum**

Health status of the Unity storage system. Values are:

### **Unknown**

The status of the system cannot be determined.



**Ok**

The system is operating normally.

**Ok\_But**

The system is operating normally but there are potential issues.

**Degraded**

The system is working, but performance may not be optimum.

**Minor**

The system is working, but it has experienced one or more minor failures.

**Major**

The system is failing; some or all of its functions may be degraded or not working. This condition has a significant impact on the system and should be remedied immediately.

**Critical**

The system has failed and recovery may not be possible. This condition should be remedied immediately.

**Non\_Recoverable**

The system has failed and recovery may not be possible. This condition should be remedied immediately.

*Type* : enum (Unknown, Ok, Ok\_But, Degraded, Minor, Major, Critical, Non\_Recoverable)

## UnityScheduleTypeEnum

Snapshot schedule types. Values are:

**N\_Hours\_At\_MM**

Create a snapshot every {interval} hours, at {minutes} past the hour. Supported parameters: interval (required), minutes (optional, default 0).

**Day\_At\_HHMM**

Specify a list of {hour[...] } when to create a snapshot each day at {minutes} past the hour. Supported parameters: hours (at least one required), minutes (optional).

**N\_Days\_At\_HHMM**

Create a snapshot every {interval} days at the time {hours}:{minutes}. Supported Parameters: interval (required), hours (optional, exactly one), minutes (optional).

**SelDays\_At\_HHMM**

Create a snapshot on the selected {daysOfWeek}, at the time {hours}:{minutes}. Supported parameters: daysOfWeek (at least one required), hours (optional, default 0), minutes (optional, default 0)

### **Nth\_Day\_Of\_Month\_AT\_HHMM**

Create a snapshot on the selected {daysOfMonth}, at the time {hours}:{minutes}. Supported parameters: daysOfMonth (at least one required), hours (optional, default 0), minutes (optional, default 0).

### **Unsupported**

Unsupported.

### **Unknown**

Schedule type is unknown to PowerStore.

*Type* : enum (N\_Hours\_At\_MM, Day\_At\_HHMM, N\_Days\_At\_HHMM, SelDays\_At\_HHMM, Nth\_Day\_Of\_Month\_AT\_HHMM, Unsupported, Unknown)

## **UnityScheduleVersionEnum**

Type of snapshot schedule. Values are:

### **Legacy**

Legacy schedule with more than two rules of type HoursList, DaysInterval or MonthDaysList.

### **Simple**

Simple schedule with two rules or less of rule type HoursInterval or WeekDaysList.

### **Unknown**

Schedule type cannot be determined.

*Type* : enum (Legacy, Simple, Unknown)

## **UnityVolumeMigrationStateEnum**

Migration state of the Unity volume. Values are:

### **Normal**

The volume is not migrated.

### **Prepared**

The volume is ready for migration.

### **Disabled\_For\_IO**

Host I/O is disabled on the volume.

### **In\_Progress**

Volume migration is in progress.

### **Completed**

The volume is migrated.

### **Aborted**

Volume migration is cancelled.

### **Not\_Applicable**

Volume migration state is not applicable if the system only supports agentless import.

### **Unknown**

The volume migration state is unknown to PowerStore.

*Type* : enum (Normal, Prepare\_For\_Migration, Source\_Disabled\_For\_IO, Source\_Migration\_In\_Progress, Source\_Migration\_Completed, Source\_Migration\_Aborted, Unknown)

## **UnityVolumeTypeEnum**

Type of the Unity volume. Values are:

### **Unknown**

Volume type cannot be determined.

### **Generic\_Storage**

A volume that is associated with a consistency group.

### **Standalone**

A volume that is not associated with a consistency group.

### **Vmware\_iSCSI**

A volume associated with a VMware VMFS datastore.

*Type* : enum (Unknown, Generic\_Storage, Standalone, Vmware\_iSCSI)

## **VGPlacementRule**

This is set during creation, and determines resource balancer recommendations.

### **Same\_Appliance**

All the members of the group should be on the same appliance in the cluster.

### **No\_Preference**

The volumes can be placed on any of the appliances in the cluster.

Filtering on the fields of this embedded resource is not supported.

*Type* : enum (Same\_Appliance, No\_Preference)

## **VirtualMachineStatusEnum**

General health status of the VM in vCenter. Not applicable to VM snapshots.

**Green**

VM is operating normally.

**Yellow**

VM is operating normally, but there are potential issues.

**Red**

VM is experiencing issues and is not operating normally.

**Grey**

Status of the VM cannot be determined.

*Type* : enum (Green, Yellow, Red, Gray)

## VirtualMachineTypeEnum

Type of VM:

**Primary**

A base VM.

**Template**

A VM template.

**Snapshot**

A snapshot of a VM.

*Type* : enum (Primary, Template, Snapshot)

## VirtualVolumeTypeEnum

The logical type of a virtual volume.

*Type* : enum (Primary, Snapshot, Prepared\_Snapshot, Clone, Fast\_Clone)

## VirtualVolumeUsageTypeEnum

VMware's usage of the vVol.

*Type* : enum (Config, Data, Swap, Memory, Other)

## VnxVolumeMigrationStateEnum

Migration state of the VNX volume. Values are: \* None - The volume is not migrated. \* Prepared - The volume is ready for migration. \* Disabled\_For\_IO - Host I/O is disabled on the volume. \* In\_Progress - Volume migration is in progress. \* Completed - The volume is migrated. \* Aborted - Volume migration is cancelled. \* Not\_Applicable - Volume migration state is not applicable if the

system only supports agentless import. \* Unknown - The volume migration state cannot be determined.

*Type* : enum (None, Prepared, Disabled\_For\_IO, In\_Progress, Completed, Aborted, Not\_Applicable, Unknown)

## VnxVolumeStateEnum

State of the VNX volume. Only volumes that are in the Ready or Default state can be imported. If a volume is in any other state, the underlying cause of the state must be corrected with the VNX management software, and the VNX volume details must be refreshed using the refresh action to import the volume. Values are: \* Invalid - The volume is in an invalid state. \* Ready - The volume is ready. This is the healthy state of a storage pool based volume. \* Faulted - The volume is faulted. \* Offline - The volume is offline. \* Destroying - The volume is being destroyed. \* Default - The volume is ready. This is the healthy state of a RAID group based volume.

*Type* : enum (Invalid, Initializing, Ready, Faulted, Offline, Destroying, Default)

## VolumeBlockSizeEnum

Block size of the volume. Valid values are:

### 512\_Bytes

512 byte block size.

### 4K\_Bytes

4096 byte block size.

### Unknown

Block size cannot be determined.

*Type* : enum (512\_Bytes, 4K\_Bytes, Unknown)

## VolumeImportableCriteriaEnum

Volume import criteria. Values are:

### Ready

The volume is ready for nondisruptive import.

### Ready\_For\_Agentless\_Import

The volume is ready for agentless import.

### In\_Progress

Import is in progress.

### Host\_Not\_Added

The host or hosts accessing the volume have not been added to the appliance.

**Imported**

Import is complete.

**Incompatible\_Firmware**

The software version on the source array is not compatible.

**Incompatible\_Host\_Agent**

The agent version on the host is not compatible.

**Undetermined**

The import status cannot be determined due to an internal error. Contact technical support.

**Host\_Volume\_Offline**

The host volume is offline.

**Cluster\_Node\_Count\_MisMatch**

The host or hosts added to the appliance are not part of the host cluster to which the volume is mapped.

**Undetermined\_Cluster\_Type**

The system cannot determine the host cluster type.

**Source\_Volume\_Offline**

The source volume is offline.

**Replication\_Destination**

The volume is a replication destination.

**SC\_Live\_Volume**

The volume is a Storage Center Live Volume.

**SC\_Degraded**

The volume is not available or is in a degraded state.

**SC\_Not\_Active**

The Storage Center volume is not an active volume.

**Used\_By\_NAS**

The volume is in use by NAS.

**SC\_Portable\_Volume**

The Storage Center volume is a destination of a portable volume.

**VNX\_Faulted**

The VNX volume is in a faulted state.

**VNX\_Not\_Ready**

The VNX volume is not in a ready state.

### **VNX\_Internal\_Volume**

The VNX volume is an internal volume.

### **Unity\_System\_Health\_Inappropriate**

The health of the Unity system is not suitable for import.

### **Unity\_Volume\_Health\_Inappropriate**

The health of the Unity volume is not suitable for import.

### **XtremIO\_Severity\_Inappropriate**

The severity level of the XtremIO system is not suitable for import.

### **XtremIO\_State\_Inappropriate**

The state of the XtremIO system is not suitable for import.

### **XtremIO\_Volume\_Severity\_Inappropriate**

The severity level XtremIO volume is not suitable for import.

### **XtremIO\_Volume\_State\_Inappropriate**

The state of the XtremIO volume is not suitable for import.

*Type* : enum (Ready, In\_Progress, Host\_Not\_Added, Imported, Incompatible\_Firmware, Incompatible\_Host\_Agent, Undetermined, Host\_Volume\_Offline, Cluster\_Node\_Count\_MisMatch, Undetermined\_Cluster\_Type, Source\_Volume\_Offline, Replication\_Destination, SC\_Live\_Volume, SC\_Degraded, SC\_Not\_Active, Used\_By\_NAS, SC\_Portable\_Volume, VNX\_Faulted, VNX\_Not\_Ready, VNX\_Internal\_Volume, Unity\_System\_Health\_Inappropriate, Unity\_Volume\_Health\_Inappropriate)

## **VolumeStateEnum**

Volume life cycle states.

### **Ready**

Volume is operating normally.

### **Initializing**

Volume is starting but not yet ready for use.

### **Offline**

Volume is not available.

### **Destroying**

Volume is being deleted. No new operations are allowed.

*Type* : enum (Ready, Initializing, Offline, Destroying)

## **VolumeStatusEnum**

Status of the import host volume. Valid values are:

**Unknown**

Volume status is unknown.

**Online**

Volume is online.

**Offline**

Volume is offline.

*Type* : enum (Unknown, Online, Offline)

## VolumeTypeEnum

Type of volume.

**Primary**

A base object.

**Clone**

A read-write object that shares storage with the object from which it is sourced.

**Snapshot**

A read-only object created from a volume or clone.

*Type* : enum (Primary, Clone, Snapshot)

## WeekOfMonthEnum

Weeks of the month. Valid values are:

**First**

First week of the month

**Second**

Second week of the month

**Third**

Third week of the month

**Fourth**

Fourth week of the month

**Last**

Last week of the month

**Unknown**

Week of month is unknown to PowerStore.



Type : enum (First, Second, Third, Fourth, Last, Unknown)

## X509CertificateServiceEnum

Type of the service for which the certificate is used:

- Management HTTP - Management Web server
- Replication HTTP - Remote Replication service
- VASA HTTP - VASA provider service
- Import HTTP - External web service

Type : enum (Management\_HTTP, Replication\_HTTP, VASA\_HTTP, Import\_HTTP)

## X509CertificateUsageTypeEnum

Usage of the certificate and the valid values are:

### Server

Server Certificate

### Client

Client Certificate

- CA Client Validation - A CA certificate used to authenticate clients during an SSL handshake.
- CA Server Validation - A CA certificate used to verify the server during an SSL handshake.

Type : enum (Server, Client, CA\_Client\_Validation, CA\_Server\_Validation)

## active\_session\_instance

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Unique identifier of the appliance containing the session.	string
<b>bond_id</b> <i>optional</i>	Unique identifier of the bond the initiator is logged into. Null if one of the following is non-null: veth_id, eth_port_id or fc_port_id.	string
<b>eth_port_id</b> <i>optional</i>	Unique identifier of the Ethernet port the initiator is logged into. Null if one of the following is non-null: bond_id, veth_id or fc_port_id.	string

Name	Description	Schema
<b>fc_port_id</b> <i>optional</i>	Unique identifier of the FC port the initiator is logged into. Null if one of the following is non-null: bond_id, veth_id or eth_port_id	string
<b>node_id</b> <i>optional</i>	Unique identifier of node on the appliance on which active session is create.	string
<b>port_name</b> <i>optional</i>	IQN or WWN of the target port that the initiator is logged into.	string
<b>veth_id</b> <i>optional</i>	Unique identifier of the virtual Ethernet port the initiator is logged into. Null if one of the following is non-null: bond, eth_port_id or fc_port_id.	string

## alert\_instance

An alert is a summation of one or more events that need (or needed) attention. Some events require attention and result in an alert being generated. Other events can update or clear an alert when the system detects a change in the condition that needs attention. To deal with an alert, look at the information about the most recent event included in the alert. In particular, examine the resource that the alert was generated about (using resource\_type and resource\_id or resource\_name) as well as the system\_impact\_l10n and suggested\_repair\_flow\_l10n parameters.

Name	Description	Schema
<b>acknowledged_timestamp</b> <i>optional</i>	Timestamp when the alert was acknowledged, if any.	string (date-time)
<b>called_home_timestamp</b> <i>optional</i>	Timestamp when the event resulted in a notification to support (via Secured Remote Services), if any.	string (date-time)
<b>cleared_timestamp</b> <i>optional</i>	Timestamp of the event that cleared this alert.	string (date-time)
<b>description_l10n</b> <i>optional</i>	Latest event's description text for this alert.	string
<b>email_sent_timestamp</b> <i>optional</i>	Timestamp when the email was sent for the raised alert, if any.	string (date-time)

Name	Description	Schema
<b>event_code</b> <i>optional</i>	The event code of the latest event for this alert.	string
<b>events</b> <i>optional</i>	List of events associated with this alert. Filtering on the fields of this embedded resource is not supported.	< <a href="#">event_instance</a> > array
<b>generated_timestamp</b> <i>optional</i>	Timestamp of the latest event for this alert.	string (date-time)
<b>id</b> <i>optional</i>	Unique identifier of the alert.	string
<b>is_acknowledged</b> <i>optional</i>	Whether an alert has been acknowledged.	boolean
<b>raised_timestamp</b> <i>optional</i>	Timestamp of the first event for this alert.	string (date-time)
<b>resource_id</b> <i>optional</i>	Unique identifier of the resource instance which generated this alert.	string
<b>resource_name</b> <i>optional</i>	Name of the resource instance which generated this alert. This property supports case-insensitive filtering	string
<b>resource_type</b> <i>optional</i>	Type of the resource instance which generated this alert.	<a href="#">ResourceTypeEnum</a>
<b>resource_type_l10n</b> <i>optional</i>	Localized message string corresponding to resource_type	string
<b>severity</b> <i>optional</i>	Severity of the latest event for this alert.	<a href="#">SeverityEnum</a>
<b>severity_l10n</b> <i>optional</i>	Localized message string corresponding to severity	string
<b>state</b> <i>optional</i>		<a href="#">AlertStateEnum</a>

Name	Description	Schema
<b>state_l10n</b> <i>optional</i>	Localized message string corresponding to state	string

## alert\_modify

Alert modify request body.

Name	Description	Schema
<b>acknowledged_severity</b> <i>optional</i>		<a href="#">SeverityEnum</a>
<b>is_acknowledged</b> <i>required</i>	Indicates whether the alert has been acknowledged.	boolean

## appliance\_forecast

Name	Schema
<b>metric_type</b> <i>required</i>	<a href="#">ForecastMetricTypeEnum</a>

## appliance\_forecast\_response

Name	Description	Schema
<b>high_value</b> <i>optional</i>	Estimate for the upper bound forecasted value on that particular time. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>low_value</b> <i>optional</i>	Estimate for the lower bound forecasted value on that particular time. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>mean_value</b> <i>optional</i>	Estimate for the mean forecasted value on that particular time. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)

Name	Description	Schema
<b>timestamp</b> <i>optional</i>	Date-time of the forecast data.	string (date-time)

## appliance\_instance

This resource type has queriable associations from `node`, `ip_pool_address`, `veth_port`, `maintenance_window`, `fc_port`, `sas_port`, `eth_port`, `software_installed`, `virtual_volume`, `hardware`, `volume`

Name	Description	Schema
<b>eth_ports</b> <i>optional</i>	This is the inverse of the resource type <code>eth_port</code> association.	< <a href="#">eth_port_instance</a> > array
<b>express_service_code</b> <i>optional</i>	Express Service Code.	string
<b>fc_ports</b> <i>optional</i>	This is the inverse of the resource type <code>fc_port</code> association.	< <a href="#">fc_port_instance</a> > array
<b>hardware</b> <i>optional</i>	This is the inverse of the resource type <code>hardware</code> association.	< <a href="#">hardware_instance</a> > array
<b>id</b> <i>optional</i>	Unique identifier of the appliance.	string
<b>ip_pool_addresses</b> <i>optional</i>	This is the inverse of the resource type <code>ip_pool_address</code> association.	< <a href="#">ip_pool_address_instance</a> > array
<b>maintenance_windows</b> <i>optional</i>	This is the inverse of the resource type <code>maintenance_window</code> association.	< <a href="#">maintenance_window_instance</a> > array
<b>model</b> <i>optional</i>	Model of the appliance.	string
<b>name</b> <i>optional</i>	Name of the appliance. This property supports case-insensitive filtering	string

Name	Description	Schema
<b>nodes</b> <i>optional</i>	This is the inverse of the resource type node association.	< <a href="#">node_instance</a> > array
<b>sas_ports</b> <i>optional</i>	This is the inverse of the resource type sas_port association.	< <a href="#">sas_port_instance</a> > array
<b>service_tag</b> <i>optional</i>	Dell Service Tag.	string
<b>software_installed</b> <i>optional</i>	This is the inverse of the resource type software_installed association.	< <a href="#">software_installed_instance</a> > array
<b>veth_ports</b> <i>optional</i>	This is the inverse of the resource type veth_port association.	< <a href="#">veth_port_instance</a> > array
<b>virtual_volumes</b> <i>optional</i>	This is the inverse of the resource type virtual_volume association.	< <a href="#">virtual_volume_instance</a> > array
<b>volumes</b> <i>optional</i>	This is the inverse of the resource type volume association.	< <a href="#">volume_instance</a> > array

## appliance\_modify

Appliance modify request body.

Name	Description	Schema
<b>name</b> <i>required</i>	New name of the appliance.	string

## appliance\_time\_to\_full

Name	Schema
<b>metric_type</b> <i>required</i>	<a href="#">ForecastMetricTypeEnum</a>

## appliance\_time\_to\_full\_response

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Unique ID of appliance.	string
<b>end_of_forecast</b> <i>optional</i>	Timestamp of the end of the capacity forecast. If time to full estimates are null, the relevant forecast does not reach full capacity before it ends. In this case the end of the forecast can be used as a minimum for time to full.	string (date-time)
<b>time_to_full</b> <i>optional</i>	Estimated date-time at which the forecast value will reach full capacity.	string (date-time)
<b>time_to_full_optimistic</b> <i>optional</i>	Optimistic date-time for time to full based on the lower bound of the forecast 95% confidence interval.	string (date-time)
<b>time_to_full_pessimistic</b> <i>optional</i>	Pessimistic date-time for time to full based on the upper bound of the forecast 95% confidence interval.	string (date-time)
<b>time_to_full_status</b> <i>optional</i>		<a href="#">ForecastTimeToFull StatusEnum</a>
<b>time_to_full_status_l10n</b> <i>optional</i>	Localized message string corresponding to time_to_full_status	string

## audit\_event\_instance

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Unique identifier of the appliance where the event occurred.	string
<b>client_address</b> <i>optional</i>	FQDN/IP Address of the client from where the event was initiated.	string (ip-address)
<b>id</b> <i>optional</i>	Unique identifier of the audit log entry.	string
<b>is_successful</b> <i>optional</i>	Whether the event was successful or not.	boolean

<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>job_id</b> <i>optional</i>	Unique identifier of the job associated with the audit event (if any).	string
<b>message_arguments</b> <i>optional</i>	Arguments (if applicable) for the audit_event message.	< string > array
<b>message_code</b> <i>optional</i>	Unique identifier of the message for this audit_event.	string
<b>message_l10n</b> <i>optional</i>	Localized message string corresponding to message_code.	string
<b>resource_action</b> <i>optional</i>		<a href="#">ResourceActionEnum</a>
<b>resource_action_l10n</b> <i>optional</i>	Localized message string corresponding to resource_action	string
<b>resource_type</b> <i>optional</i>		<a href="#">ResourceTypeEnum</a>
<b>resource_type_l10n</b> <i>optional</i>	Localized message string corresponding to resource_type	string
<b>server_addresses</b> <i>optional</i>	IP Address on which the request was targeted.	string (ip-address)
<b>timestamp</b> <i>optional</i>	Time the event occurred to one second precision.	string (date-time)
<b>type</b> <i>optional</i>		<a href="#">AuditEventTypeEnum</a>
<b>type_l10n</b> <i>optional</i>	Localized message string corresponding to type	string
<b>username</b> <i>optional</i>	Fully qualified name of the user who initiated the event to be audited. For example, domain_name/name.	string



# base\_copy\_metrics\_by\_appliance

Copy metrics for the appliance.

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Unique identifier of the appliance.	string
<b>data_remaining</b> <i>optional</i>	Number of bytes remaining to be copied at the end of this sampling period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>data_transferred</b> <i>optional</i>	Number of bytes transferred during this sampling period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>read_time</b> <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>session_type</b> <i>optional</i>		<a href="#">CopySessionTypeEnum</a>
<b>session_type_10n</b> <i>optional</i>	Localized message string corresponding to session_type	string
<b>timestamp</b> <i>optional</i>	End of sampling period.	string (date-time)
<b>transfer_rate</b> <i>optional</i>	Data transfer rate (in bytes/second) computed using data_transferred and transfer_time.	number (float)
<b>transfer_time</b> <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)

Name	Description	Schema
<b>write_time</b> <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)

## base\_copy\_metrics\_by\_cluster

Copy metrics for the cluster.

Name	Description	Schema
<b>data_remaining</b> <i>optional</i>	Number of bytes remaining to be copied at the end of this sampling period. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>data_transferred</b> <i>optional</i>	Number of bytes transferred during this sampling period. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>read_time</b> <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>session_type</b> <i>optional</i>		<a href="#">CopySessionTypeEnum</a>
<b>session_type_10n</b> <i>optional</i>	Localized message string corresponding to session_type	string
<b>timestamp</b> <i>optional</i>	End of sampling period.	string (date-time)
<b>transfer_rate</b> <i>optional</i>	Data transfer rate (in bytes/second) computed using data_transferred and transfer_time.	number (float)

Name	Description	Schema
<b>transfer_time</b> <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>write_time</b> <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)

## base\_copy\_metrics\_by\_remote\_system

Cluster wide copy metrics for the remote system.

Name	Description	Schema
<b>data_remaining</b> <i>optional</i>	Number of bytes remaining to be copied at the end of this sampling period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>data_transferred</b> <i>optional</i>	Number of bytes transferred during this sampling period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>read_time</b> <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>remote_system_id</b> <i>optional</i>	Unique identifier of the remote system.	string
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>session_type</b> <i>optional</i>		CopySessionTypeEnum

Name	Description	Schema
<b>session_type_10n</b> <i>optional</i>	Localized message string corresponding to session_type	string
<b>timestamp</b> <i>optional</i>	End of sampling period.	string (date-time)
<b>transfer_rate</b> <i>optional</i>	Data transfer rate (in bytes/second) computed using data_transferred and transfer_time.	number (float)
<b>transfer_time</b> <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>write_time</b> <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)

## base\_copy\_metrics\_by\_vg

Cluster wide copy metrics for the volume group.

Name	Description	Schema
<b>data_remaining</b> <i>optional</i>	Number of bytes remaining to be copied at the end of this sampling period. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>data_transferred</b> <i>optional</i>	Number of bytes transferred during this sampling period. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>read_time</b> <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)

Name	Description	Schema
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>session_type</b> <i>optional</i>		<a href="#">CopySessionTypeEnum</a>
<b>session_type_10n</b> <i>optional</i>	Localized message string corresponding to session_type	string
<b>timestamp</b> <i>optional</i>	End of sampling period.	string (date-time)
<b>transfer_rate</b> <i>optional</i>	Data transfer rate (in bytes/second) computed using data_transferred and transfer_time.	number (float)
<b>transfer_time</b> <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>vg_id</b> <i>optional</i>	Unique identifier of the volume group.	string
<b>write_time</b> <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)

## base\_copy\_metrics\_by\_volume

Cluster wide copy metrics for the volume.

Name	Description	Schema
<b>data_remaining</b> <i>optional</i>	Number of bytes remaining to be copied at the end of this sampling period. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)

Name	Description	Schema
<b>data_transferred</b> <i>optional</i>	Number of bytes transferred during this sampling period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>read_time</b> <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>session_type</b> <i>optional</i>		<a href="#">CopySessionTypeEnum</a>
<b>session_type_10n</b> <i>optional</i>	Localized message string corresponding to session_type	string
<b>timestamp</b> <i>optional</i>	End of sampling period.	string (date-time)
<b>transfer_rate</b> <i>optional</i>	Data transfer rate (in bytes/second) computed using data_transferred and transfer_time.	number (float)
<b>transfer_time</b> <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>volume_id</b> <i>optional</i>	Unique identifier of the volume.	string
<b>write_time</b> <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)

# base\_performance\_metrics\_by\_appliance

Performance metrics for the appliance collected at twenty second interval.

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Unique identifier representing a specific appliance.	string
<b>avg_io_size</b> <i>optional</i>	Average size of read and write operations in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Average read and write latency in microseconds.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>io_workload_cpu_utilization</b> <i>optional</i>	The percentage of CPU Utilization on the cores dedicated to servicing storage I/O requests.	number (float)
<b>read_bandwidth</b> <i>optional</i>	Read rate in bytes per second.	number (float)
<b>read_iops</b> <i>optional</i>	Total read operations per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

Name	Description	Schema
<b>total_bandwidth</b> <i>optional</i>	Total data transfer rate in bytes per second.	number (float)
<b>total_iops</b> <i>optional</i>	Total read and write operations per second.	number
<b>write_bandwidth</b> <i>optional</i>	Write rate in bytes per second.	number (float)
<b>write_iops</b> <i>optional</i>	Total write operations per second.	number (float)

## base\_performance\_metrics\_by\_appliance\_rollup

Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period.

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Unique identifier representing a specific appliance.	string
<b>avg_io_size</b> <i>optional</i>	Average size of read and write operations in bytes.	number (float)
<b>avg_io_workload_cpu_utilization</b> <i>optional</i>	The average percentage of CPU Utilization on the cores dedicated to servicing storage I/O requests. Calculated over time interval across appliance. Derived from an average of utilization across all nodes within the appliance.	number (float)
<b>avg_latency</b> <i>optional</i>	Weighted average latency in microseconds.	number (float)
<b>avg_read_bandwidth</b> <i>optional</i>	Weighted average read bandwidth in bytes per second.	number (float)
<b>avg_read_iops</b> <i>optional</i>	Average reads per second.	number (float)



<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>avg_read_latency</b> <i>optional</i>	Weighted average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Weighted average read size in bytes.	number (float)
<b>avg_total_bandwidth</b> <i>optional</i>	Weighted average total bandwidth in bytes per second.	number (float)
<b>avg_total_iops</b> <i>optional</i>	Average total input and output operations per second.	number
<b>avg_write_bandwidth</b> <i>optional</i>	Weighted average write bandwidth in bytes per second.	number (float)
<b>avg_write_iops</b> <i>optional</i>	Average writes per second.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Weighted average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Weighted average write size in bytes.	number (float)
<b>max_avg_io_size</b> <i>optional</i>	Maximum average size of input and output operations in bytes.	number (float)
<b>max_avg_latency</b> <i>optional</i>	Maximum of average latency in microseconds.	number (float)
<b>max_avg_read_latency</b> <i>optional</i>	Maximum read latency in microseconds.	number (float)
<b>max_avg_read_size</b> <i>optional</i>	Maximum of average read size in bytes.	number (float)

Name	Description	Schema
<b>max_avg_write_latency</b> <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
<b>max_avg_write_size</b> <i>optional</i>	Maximum of average write size in bytes.	number (float)
<b>max_io_workload_cpu_utilization</b> <i>optional</i>	The maximum percentage of CPU Utilization on the cores dedicated to servicing storage I/O requests. Calculated over time interval across appliance. Derived from an average of utilization across all nodes within the appliance.	number (float)
<b>max_read_bandwidth</b> <i>optional</i>	Maximum read bandwidth in bytes per second.	number (float)
<b>max_read_iops</b> <i>optional</i>	Maximum reads per second.	number (float)
<b>max_total_bandwidth</b> <i>optional</i>	Maximum total bandwidth in bytes per second.	number (float)
<b>max_total_iops</b> <i>optional</i>	Maximum totals per second.	number
<b>max_write_bandwidth</b> <i>optional</i>	Maximum write bandwidth in bytes per second.	number (float)
<b>max_write_iops</b> <i>optional</i>	Maximum writes per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

# base\_performance\_metrics\_by\_cluster

Performance metrics for the cluster collected at twenty second interval.

Name	Description	Schema
<b>avg_io_size</b> <i>optional</i>	Average size of read and write operations in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Average read and write latency in microseconds.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>cluster_id</b> <i>optional</i>	Identifier of the cluster.	string
<b>read_bandwidth</b> <i>optional</i>	Read rate in bytes per second.	number (float)
<b>read_iops</b> <i>optional</i>	Total number of read operations per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_bandwidth</b> <i>optional</i>	Total data transfer rate in bytes per second.	number (float)

Name	Description	Schema
<b>total_iops</b> <i>optional</i>	Total read and write operations per second.	number (float)
<b>write_bandwidth</b> <i>optional</i>	Write rate in byte/sec.	number (float)
<b>write_iops</b> <i>optional</i>	Total write operations per second.	number (float)

## base\_performance\_metrics\_by\_cluster\_rollup

Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period.

Name	Description	Schema
<b>avg_io_size</b> <i>optional</i>	Average size of read and write operations in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Weighted average latency in microseconds.	number (float)
<b>avg_read_bandwidth</b> <i>optional</i>	Weighted average read bandwidth in bytes per second.	number (float)
<b>avg_read_iops</b> <i>optional</i>	Average reads per second.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Weighted average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Weighted average read size in bytes.	number (float)
<b>avg_total_bandwidth</b> <i>optional</i>	Weighted average total bandwidth in bytes per second.	number (float)
<b>avg_total_iops</b> <i>optional</i>	Average total input and output operations per second.	number

<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>avg_write_bandwidth</b> <i>optional</i>	Weighted average write bandwidth in bytes per second.	number (float)
<b>avg_write_ios</b> <i>optional</i>	Average writes per second.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Weighted average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Weighted average write size in bytes.	number (float)
<b>cluster_id</b> <i>optional</i>	Identifier of the cluster.	string
<b>max_avg_io_size</b> <i>optional</i>	Maximum average size of input and output operations in bytes.	number (float)
<b>max_avg_latency</b> <i>optional</i>	Maximum of average latency in microseconds.	number (float)
<b>max_avg_read_latency</b> <i>optional</i>	Maximum read latency in microseconds.	number (float)
<b>max_avg_read_size</b> <i>optional</i>	Maximum of average read size in bytes.	number (float)
<b>max_avg_write_latency</b> <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
<b>max_avg_write_size</b> <i>optional</i>	Maximum of average write size in bytes.	number (float)

Name	Description	Schema
<b>max_read_bandwidth</b> <i>optional</i>	Maximum read bandwidth in bytes per second.	number (float)
<b>max_read_ios</b> <i>optional</i>	Maximum reads per second.	number (float)
<b>max_total_bandwidth</b> <i>optional</i>	Maximum total bandwidth in bytes per second.	number (float)
<b>max_total_ios</b> <i>optional</i>	Maximum totals per second.	number
<b>max_write_bandwidth</b> <i>optional</i>	Maximum write bandwidth in bytes per second.	number (float)
<b>max_write_ios</b> <i>optional</i>	Maximum writes per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

## base\_performance\_metrics\_by\_fe\_eth\_node

Ethernet performance metrics for the node collected at twenty second interval.

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
<b>bytes_rx_ps</b> <i>optional</i>	The total bytes received per second.	number (float)

Name	Description	Schema
<b>bytes_tx_ps</b> <i>optional</i>	The total bytes transmitted per second.	number (float)
<b>node_id</b> <i>optional</i>	Reference to the associated node on which these metrics were recorded.	string
<b>pkt_rx_crc_error_ps</b> <i>optional</i>	The number of packets received with CRC error (and thus dropped) per second.	number (float)
<b>pkt_rx_no_buffer_error_ps</b> <i>optional</i>	The number of packets discarded per second due to lack of buffer space.	number (float)
<b>pkt_rx_ps</b> <i>optional</i>	The number of packets received per second.	number (float)
<b>pkt_tx_error_ps</b> <i>optional</i>	The number of packets that failed to be transmitted per second due to error.	number (float)
<b>pkt_tx_ps</b> <i>optional</i>	The number of packets transmitted per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

## base\_performance\_metrics\_by\_fe\_eth\_node\_rollup

Ethernet performance metrics for the node rolled up at various rollup intervals.

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
<b>avg_bytes_rx_ps</b> <i>optional</i>	The average total bytes received per second.	number (float)

<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>avg_bytes_tx_ps</b> <i>optional</i>	The average total bytes transmitted per second.	number (float)
<b>avg_pkt_rx_crc_error_ps</b> <i>optional</i>	The average number of packets received with CRC error (and thus dropped) per second.	number (float)
<b>avg_pkt_rx_no_buffer_error_ps</b> <i>optional</i>	The average number of packets discarded per second due to lack of buffer space.	number (float)
<b>avg_pkt_rx_ps</b> <i>optional</i>	The average number of packets received per second.	number (float)
<b>avg_pkt_tx_error_ps</b> <i>optional</i>	The average number of packets that failed to be transmitted per second due to error.	number (float)
<b>avg_pkt_tx_ps</b> <i>optional</i>	The average number of packets transmitted per second.	number (float)
<b>max_bytes_rx_ps</b> <i>optional</i>	The maximum total bytes received per second.	number (float)
<b>max_bytes_tx_ps</b> <i>optional</i>	The maximum total bytes transmitted per second.	number (float)
<b>max_pkt_rx_crc_error_ps</b> <i>optional</i>	The maximum number of packets received with CRC error (and thus dropped) per second.	number (float)
<b>max_pkt_rx_no_buffer_error_ps</b> <i>optional</i>	The maximum number of packets discarded per second due to lack of buffer space.	number (float)
<b>max_pkt_rx_ps</b> <i>optional</i>	The maximum number of packets received per second.	number (float)



Name	Description	Schema
<b>max_pkt_tx_error_ps</b> <i>optional</i>	The maximum number of packets that failed to be transmitted per second due to error.	number (float)
<b>max_pkt_tx_ps</b> <i>optional</i>	The maximum number of packets transmitted per second.	number (float)
<b>node_id</b> <i>optional</i>	Reference to the associated node on which these metrics were recorded.	string
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

## base\_performance\_metrics\_by\_fe\_eth\_port

Performance metrics for the frontend ethernet port collected at twenty second interval.

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
<b>bytes_rx_ps</b> <i>optional</i>	The total bytes received per second.	number (float)
<b>bytes_tx_ps</b> <i>optional</i>	The total bytes transmitted per second.	number (float)
<b>fe_port_id</b> <i>optional</i>	Reference to the associated frontend ethernet port (eth_port) on which these metrics were recorded.	string
<b>node_id</b> <i>optional</i>	Reference to the node the port belongs to.	string
<b>pkt_rx_crc_error_ps</b> <i>optional</i>	The number of packets received with CRC error (and thus dropped) per second.	number (float)

Name	Description	Schema
<b>pkt_rx_no_buffer_error_ps</b> <i>optional</i>	The number of packets discarded per second due to lack of buffer space.	number (float)
<b>pkt_rx_ps</b> <i>optional</i>	The number of packets received per second.	number (float)
<b>pkt_tx_error_ps</b> <i>optional</i>	The number of packets that failed to be transmitted per second due to error.	number (float)
<b>pkt_tx_ps</b> <i>optional</i>	The number of packets transmitted per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

## base\_performance\_metrics\_by\_fe\_eth\_port\_rollup

Performance metrics for the frontend ethernet port rolled up at various rollup intervals.

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
<b>avg_bytes_rx_ps</b> <i>optional</i>	The average total bytes received per second.	number (float)
<b>avg_bytes_tx_ps</b> <i>optional</i>	The average total bytes transmitted per second.	number (float)
<b>avg_pkt_rx_crc_error_ps</b> <i>optional</i>	The average number of packets received with CRC error (and thus dropped) per second.	number (float)

Name	Description	Schema
<b>avg_pkt_rx_no_buffer_error_ps</b> <i>optional</i>	The average number of packets discarded per second due to lack of buffer space.	number (float)
<b>avg_pkt_rx_ps</b> <i>optional</i>	The average number of packets received per second.	number (float)
<b>avg_pkt_tx_error_ps</b> <i>optional</i>	The average number of packets that failed to be transmitted per second due to error.	number (float)
<b>avg_pkt_tx_ps</b> <i>optional</i>	The average number of packets transmitted per second.	number (float)
<b>fe_port_id</b> <i>optional</i>	Reference to the associated frontend ethernet port (eth_port) on which these metrics were recorded.	string
<b>max_bytes_rx_ps</b> <i>optional</i>	The maximum total bytes received per second.	number (float)
<b>max_bytes_tx_ps</b> <i>optional</i>	The maximum total bytes transmitted per second.	number (float)
<b>max_pkt_rx_crc_error_ps</b> <i>optional</i>	The maximum number of packets received with CRC error (and thus dropped) per second.	number (float)
<b>max_pkt_rx_no_buffer_error_ps</b> <i>optional</i>	The maximum number of packets discarded per second due to lack of buffer space.	number (float)
<b>max_pkt_rx_ps</b> <i>optional</i>	The maximum number of packets received per second.	number (float)
<b>max_pkt_tx_error_ps</b> <i>optional</i>	The maximum number of packets that failed to be transmitted per second due to error.	number (float)

Name	Description	Schema
<b>max_pkt_tx_p</b> <i>s</i> <i>optional</i>	The maximum number of packets transmitted per second.	number (float)
<b>node_id</b> <i>optional</i>	Reference to the node the port belongs to.	string
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

## base\_performance\_metrics\_by\_fe\_fc\_node

Fibre channel performance metrics for the node collected at twenty second interval.

Name	Description	Schema
<b>avg_io_size</b> <i>optional</i>	Average size of read and write operations in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Average read and write latency in microseconds.	number (float)
<b>avg_read_late</b> <b>ncy</b> <i>optional</i>	Average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_late</b> <b>ncy</b> <i>optional</i>	Average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>current_login</b> <b>s</b> <i>optional</i>	The number of logins to the target from initiators. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)

Name	Description	Schema
<b>dumped_frames_ps</b> <i>optional</i>	Dumped frames per second.	number (float)
<b>invalid_crc_count_ps</b> <i>optional</i>	Invalid crc count per second.	number (float)
<b>invalid_tx_word_count_ps</b> <i>optional</i>	Invalid transmission word count per second.	number (float)
<b>link_failure_count_ps</b> <i>optional</i>	Link failure count per second.	number (float)
<b>loss_of_signal_count_ps</b> <i>optional</i>	Loss of signal count per second.	number (float)
<b>loss_of_sync_count_ps</b> <i>optional</i>	Loss of sync count per second.	number (float)
<b>node_id</b> <i>optional</i>	Reference to the associated node on which these metrics were recorded.	string
<b>prim_seq_prot_err_count_ps</b> <i>optional</i>	Primitive sequence protocol error count per second.	number (float)
<b>read_bandwidth</b> <i>optional</i>	Read rate in bytes per second.	number (float)
<b>read_iops</b> <i>optional</i>	Total number of read operations by the node.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>total_bandwidth</b> <i>optional</i>	Total data transfer rate in bytes per second.	number (float)
<b>total_iops</b> <i>optional</i>	Total read and write operations per second.	number (float)
<b>unaligned_bandwidth</b> <i>optional</i>	Unaligned read/write rate in bytes per second.	number (float)
<b>unaligned_iops</b> <i>optional</i>	Unaligned total input/output per second.	number (float)
<b>unaligned_read_bandwidth</b> <i>optional</i>	Unaligned read rate in bytes per second.	number (float)
<b>unaligned_read_iops</b> <i>optional</i>	Unaligned read input/output per second.	number (float)
<b>unaligned_write_bandwidth</b> <i>optional</i>	Unaligned write rate in bytes per second.	number (float)
<b>unaligned_write_iops</b> <i>optional</i>	Unaligned write input/output per second.	number (float)
<b>write_bandwidth</b> <i>optional</i>	Write rate in byte/sec.	number (float)
<b>write_iops</b> <i>optional</i>	Total write operations per second.	number (float)

## **base\_performance\_metrics\_by\_fe\_fc\_node\_rollup**

Fibre channel performance metrics for the node rolled up at various rollup intervals.

Name	Description	Schema
<b>avg_current_logins</b> <i>optional</i>	Average number of logins to the target from initiators. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>avg_dumped_frames_ps</b> <i>optional</i>	Average dumped frames per second.	number (float)
<b>avg_invalid_crc_count_ps</b> <i>optional</i>	Average invalid crc count per second.	number (float)
<b>avg_invalid_tx_word_count_ps</b> <i>optional</i>	Average invalid transmission word count per second.	number (float)
<b>avg_io_size</b> <i>optional</i>	Average size of read and write operations in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Weighted average latency in microseconds.	number (float)
<b>avg_link_failure_count_ps</b> <i>optional</i>	Average link failure count per second.	number (float)
<b>avg_loss_of_signal_count_ps</b> <i>optional</i>	Average loss of signal count per second.	number (float)
<b>avg_loss_of_sync_count_ps</b> <i>optional</i>	Average loss of sync count per second.	number (float)
<b>avg_prim_seq_prot_err_count_ps</b> <i>optional</i>	Average primitive sequence protocol error count per second.	number (float)
<b>avg_read_bandwidth</b> <i>optional</i>	Weighted average read bandwidth in bytes per second.	number (float)

<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>avg_read_iops</b> <i>optional</i>	Average reads per second.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Weighted average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Weighted average read size in bytes.	number (float)
<b>avg_total_bandwidth</b> <i>optional</i>	Weighted average total bandwidth in bytes per second.	number (float)
<b>avg_total_iops</b> <i>optional</i>	Average total input and output operations per second.	number
<b>avg_unaligned_bandwidth</b> <i>optional</i>	Average unaligned read/write rate in bytes per second.	number (float)
<b>avg_unaligned_iops</b> <i>optional</i>	Average unaligned total input/output per second.	number (float)
<b>avg_unaligned_read_bandwidth</b> <i>optional</i>	Average unaligned read rate in bytes per second.	number (float)
<b>avg_unaligned_read_iops</b> <i>optional</i>	Average unaligned read input/output per second.	number (float)
<b>avg_unaligned_write_bandwidth</b> <i>optional</i>	Average unaligned write rate in bytes per second.	number (float)
<b>avg_unaligned_write_iops</b> <i>optional</i>	Average unaligned write input/output per second.	number (float)



Name	Description	Schema
<b>avg_write_bandwidth</b> <i>optional</i>	Weighted average write bandwidth in bytes per second.	number (float)
<b>avg_write_ios</b> <i>optional</i>	Average writes per second.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Weighted average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Weighted average write size in bytes.	number (float)
<b>max_avg_io_size</b> <i>optional</i>	Maximum average size of input and output operations in bytes.	number (float)
<b>max_avg_latency</b> <i>optional</i>	Maximum of average latency in microseconds.	number (float)
<b>max_avg_read_latency</b> <i>optional</i>	Maximum read latency in microseconds.	number (float)
<b>max_avg_read_size</b> <i>optional</i>	Maximum of average read size in bytes.	number (float)
<b>max_avg_write_latency</b> <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
<b>max_avg_write_size</b> <i>optional</i>	Maximum of average write size in bytes.	number (float)
<b>max_current_logins</b> <i>optional</i>	Maximum number of logins to the target from initiators. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)

Name	Description	Schema
<b>max_dumped_frames_ps</b> <i>optional</i>	The maximum dumped frames per second.	number (float)
<b>max_invalid_crc_count_ps</b> <i>optional</i>	The maximum invalid crc count per second.	number (float)
<b>max_invalid_tx_word_count_ps</b> <i>optional</i>	The maximum invalid transmission word count per second.	number (float)
<b>max_link_failure_count_ps</b> <i>optional</i>	The maximum link failure count per second.	number (float)
<b>max_loss_of_signal_count_ps</b> <i>optional</i>	The maximum loss of signal count per second.	number (float)
<b>max_loss_of_sync_count_ps</b> <i>optional</i>	The maximum loss of sync count per second.	number (float)
<b>max_prim_seq_prot_err_count_ps</b> <i>optional</i>	The maximum primitive sequence protocol error count per second.	number (float)
<b>max_read_bandwidth</b> <i>optional</i>	Maximum read bandwidth in bytes per second.	number (float)
<b>max_read_ios</b> <i>optional</i>	Maximum reads per second.	number (float)
<b>max_total_bandwidth</b> <i>optional</i>	Maximum total bandwidth in bytes per second.	number (float)

Name	Description	Schema
<b>max_total_iops</b> <i>optional</i>	Maximum totals per second.	number
<b>max_unaligned_bandwidth</b> <i>optional</i>	Maximum unaligned read/write rate in bytes per second.	number (float)
<b>max_unaligned_iops</b> <i>optional</i>	Maximum unaligned total input/output per second.	number (float)
<b>max_unaligned_read_bandwidth</b> <i>optional</i>	Maximum unaligned read rate in bytes per second.	number (float)
<b>max_unaligned_read_iops</b> <i>optional</i>	Maximum unaligned read input/output per second.	number (float)
<b>max_unaligned_write_bandwidth</b> <i>optional</i>	Maximum unaligned write rate in bytes per second.	number (float)
<b>max_unaligned_write_iops</b> <i>optional</i>	Maximum unaligned write input/output per second.	number (float)
<b>max_write_bandwidth</b> <i>optional</i>	Maximum write bandwidth in bytes per second.	number (float)
<b>max_write_iops</b> <i>optional</i>	Maximum writes per second.	number (float)
<b>node_id</b> <i>optional</i>	Reference to the associated node on which these metrics were recorded.	string
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)

Name	Description	Schema
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

## base\_performance\_metrics\_by\_fe\_fc\_port

Performance metrics for the frontend fibre channel port collected at twenty second interval.

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
<b>avg_io_size</b> <i>optional</i>	Average size of read and write operations in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Average read and write latency in microseconds.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>current_logins</b> <i>optional</i>	The number of logins to the target from initiators. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>dumped_frames_ps</b> <i>optional</i>	Dumped frames per second.	number (float)
<b>fe_port_id</b> <i>optional</i>	Reference to the associated frontend fibre channel port (fc_port) on which these metrics were recorded.	string

Name	Description	Schema
<b>invalid_crc_count_ps</b> <i>optional</i>	Invalid crc count per second.	number (float)
<b>invalid_tx_word_count_ps</b> <i>optional</i>	Invalid transmission word count per second.	number (float)
<b>link_failure_count_ps</b> <i>optional</i>	Link failure count per second.	number (float)
<b>loss_of_signal_count_ps</b> <i>optional</i>	Loss of signal count per second.	number (float)
<b>loss_of_sync_count_ps</b> <i>optional</i>	Loss of sync count per second.	number (float)
<b>node_id</b> <i>optional</i>	Reference to the node the port belongs to.	string
<b>prim_seq_prot_err_count_ps</b> <i>optional</i>	Primitive sequence protocol error count per second.	number (float)
<b>read_bandwidth</b> <i>optional</i>	Read rate in bytes per second.	number (float)
<b>read_iops</b> <i>optional</i>	Total number of read operations by the node.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_bandwidth</b> <i>optional</i>	Total data transfer rate in bytes per second.	number (float)

<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>total_iops</b> <i>optional</i>	Total read and write operations per second.	number (float)
<b>unaligned_bandwidth</b> <i>optional</i>	Unaligned read/write rate in bytes per second.	number (float)
<b>unaligned_iops</b> <i>optional</i>	Unaligned total input/output per second.	number (float)
<b>unaligned_read_bandwidth</b> <i>optional</i>	Unaligned read rate in bytes per second.	number (float)
<b>unaligned_read_iops</b> <i>optional</i>	Unaligned read input/output per second.	number (float)
<b>unaligned_write_bandwidth</b> <i>optional</i>	Unaligned write rate in bytes per second.	number (float)
<b>unaligned_write_iops</b> <i>optional</i>	Unaligned write input/output per second.	number (float)
<b>write_bandwidth</b> <i>optional</i>	Write rate in byte/sec.	number (float)
<b>write_iops</b> <i>optional</i>	Total write operations per second.	number (float)

## base\_performance\_metrics\_by\_fe\_fc\_port\_rollup

Performance metrics for the frontend fibre channel port rolled up at various intervals.

<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>appliance_id</b> <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string

Name	Description	Schema
<b>avg_current_logins</b> <i>optional</i>	Average number of logins to the target from initiators. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>avg_dumped_frames_ps</b> <i>optional</i>	Average dumped frames per second.	number (float)
<b>avg_invalid_crc_count_ps</b> <i>optional</i>	Average invalid crc count per second.	number (float)
<b>avg_invalid_tx_word_count_ps</b> <i>optional</i>	Average invalid transmission word count per second.	number (float)
<b>avg_io_size</b> <i>optional</i>	Average size of read and write operations in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Weighted average latency in microseconds.	number (float)
<b>avg_link_failure_count_ps</b> <i>optional</i>	Average link failure count per second.	number (float)
<b>avg_loss_of_signal_count_ps</b> <i>optional</i>	Average loss of signal count per second.	number (float)
<b>avg_loss_of_sync_count_ps</b> <i>optional</i>	Average loss of sync count per second.	number (float)
<b>avg_prim_seq_prot_err_count_ps</b> <i>optional</i>	Average primitive sequence protocol error count per second.	number (float)
<b>avg_read_bandwidth</b> <i>optional</i>	Weighted average read bandwidth in bytes per second.	number (float)

<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>avg_read_iops</b> <i>optional</i>	Average reads per second.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Weighted average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Weighted average read size in bytes.	number (float)
<b>avg_total_bandwidth</b> <i>optional</i>	Weighted average total bandwidth in bytes per second.	number (float)
<b>avg_total_iops</b> <i>optional</i>	Average total input and output operations per second.	number
<b>avg_unaligned_bandwidth</b> <i>optional</i>	Average unaligned read/write rate in bytes per second.	number (float)
<b>avg_unaligned_iops</b> <i>optional</i>	Average unaligned total input/output per second.	number (float)
<b>avg_unaligned_read_bandwidth</b> <i>optional</i>	Average unaligned read rate in bytes per second.	number (float)
<b>avg_unaligned_read_iops</b> <i>optional</i>	Average unaligned read input/output per second.	number (float)
<b>avg_unaligned_write_bandwidth</b> <i>optional</i>	Average unaligned write rate in bytes per second.	number (float)
<b>avg_unaligned_write_iops</b> <i>optional</i>	Average unaligned write input/output per second.	number (float)



<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>avg_write_bandwidth</b> <i>optional</i>	Weighted average write bandwidth in bytes per second.	number (float)
<b>avg_write_ios</b> <i>optional</i>	Average writes per second.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Weighted average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Weighted average write size in bytes.	number (float)
<b>fe_port_id</b> <i>optional</i>	Reference to the associated frontend fibre channel port (fc_port) on which these metrics were recorded.	string
<b>max_avg_io_size</b> <i>optional</i>	Maximum average size of input and output operations in bytes.	number (float)
<b>max_avg_latency</b> <i>optional</i>	Maximum of average latency in microseconds.	number (float)
<b>max_avg_read_latency</b> <i>optional</i>	Maximum read latency in microseconds.	number (float)
<b>max_avg_read_size</b> <i>optional</i>	Maximum of average read size in bytes.	number (float)
<b>max_avg_write_latency</b> <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
<b>max_avg_write_size</b> <i>optional</i>	Maximum of average write size in bytes.	number (float)

Name	Description	Schema
<b>max_current_logins</b> <i>optional</i>	Maximum number of logins to the target from initiators. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_dumped_frames_ps</b> <i>optional</i>	The maximum dumped frames per second.	number (float)
<b>max_invalid_crc_count_ps</b> <i>optional</i>	The maximum invalid crc count per second.	number (float)
<b>max_invalid_tx_word_count_ps</b> <i>optional</i>	The maximum invalid transmission word count per second.	number (float)
<b>max_link_failure_count_ps</b> <i>optional</i>	The maximum link failure count per second.	number (float)
<b>max_loss_of_signal_count_ps</b> <i>optional</i>	The maximum loss of signal count per second.	number (float)
<b>max_loss_of_sync_count_ps</b> <i>optional</i>	The maximum loss of sync count per second.	number (float)
<b>max_prim_seq_prot_err_count_ps</b> <i>optional</i>	The maximum primitive sequence protocol error count per second.	number (float)
<b>max_read_bandwidth</b> <i>optional</i>	Maximum read bandwidth in bytes per second.	number (float)
<b>max_read_iops</b> <i>optional</i>	Maximum reads per second.	number (float)

<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>max_total_bandwidth</b> <i>optional</i>	Maximum total bandwidth in bytes per second.	number (float)
<b>max_total_iops</b> <i>optional</i>	Maximum totals per second.	number
<b>max_unaligned_bandwidth</b> <i>optional</i>	Maximum unaligned read/write rate in bytes per second.	number (float)
<b>max_unaligned_iops</b> <i>optional</i>	Maximum unaligned total input/output per second.	number (float)
<b>max_unaligned_read_bandwidth</b> <i>optional</i>	Maximum unaligned read rate in bytes per second.	number (float)
<b>max_unaligned_read_iops</b> <i>optional</i>	Maximum unaligned read input/output per second.	number (float)
<b>max_unaligned_write_bandwidth</b> <i>optional</i>	Maximum unaligned write rate in bytes per second.	number (float)
<b>max_unaligned_write_iops</b> <i>optional</i>	Maximum unaligned write input/output per second.	number (float)
<b>max_write_bandwidth</b> <i>optional</i>	Maximum write bandwidth in bytes per second.	number (float)
<b>max_write_iops</b> <i>optional</i>	Maximum writes per second.	number (float)
<b>node_id</b> <i>optional</i>	Reference to the node the port belongs to.	string

Name	Description	Schema
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

## base\_performance\_metrics\_by\_file\_system

Performance metrics for the file system collected at twenty second interval.

Name	Description	Schema
<b>avg_latency</b> <i>optional</i>	Average read and write latency in microseconds.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_size</b> <i>optional</i>	Average read and write size in bytes.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>file_system_id</b> <i>optional</i>	Unique identifier of the file system.	string
<b>read_bandwidth</b> <i>optional</i>	Read rate in bytes per second.	number (float)
<b>read_iops</b> <i>optional</i>	Total read operations per second.	number (float)

Name	Description	Schema
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_bandwidth</b> <i>optional</i>	Total data transfer rate in bytes per second.	number (float)
<b>total_iops</b> <i>optional</i>	Total read and write operations per second.	number (float)
<b>write_bandwidth</b> <i>optional</i>	Write rate in bytes per second.	number (float)
<b>write_iops</b> <i>optional</i>	Total write operations per second.	number (float)

## base\_performance\_metrics\_by\_file\_system\_rollup

Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Name	Description	Schema
<b>avg_latency</b> <i>optional</i>	Maximum of average read and write latency in microseconds.	number (float)
<b>avg_read_bandwidth</b> <i>optional</i>	Average read rate in bytes per second.	number (float)
<b>avg_read_iops</b> <i>optional</i>	Average read operations per second.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Maximum of average read latency in microseconds.	number (float)

<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_size</b> <i>optional</i>	Average read and write size in bytes.	number (float)
<b>avg_total_bandwidth</b> <i>optional</i>	Average data transfer rate in bytes per second.	number (float)
<b>avg_total_iops</b> <i>optional</i>	Average read and write operations per second.	number (float)
<b>avg_write_bandwidth</b> <i>optional</i>	Average write rate in bytes per second.	number (float)
<b>avg_write_iops</b> <i>optional</i>	Average write operations per second.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>file_system_id</b> <i>optional</i>	Unique identifier of the file system.	string
<b>max_avg_latency</b> <i>optional</i>	Maximum of average read and write latency in microseconds.	number (float)
<b>max_avg_read_latency</b> <i>optional</i>	Maximum of average read latency in microseconds.	number (float)
<b>max_avg_read_size</b> <i>optional</i>	Maximum of average read size in bytes.	number (float)

Name	Description	Schema
<b>max_avg_size</b> <i>optional</i>	Maximum of average read and write size in bytes.	number (float)
<b>max_avg_write_latency</b> <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
<b>max_avg_write_size</b> <i>optional</i>	Maximum of average write size in bytes.	number (float)
<b>max_iops</b> <i>optional</i>	Maximum read and write operations per second.	number (float)
<b>max_read_bandwidth</b> <i>optional</i>	Maximum read rate in bytes per second.	number (float)
<b>max_read_iops</b> <i>optional</i>	Maximum read operations per second.	number (float)
<b>max_total_bandwidth</b> <i>optional</i>	Maximum data transfer rate in bytes per second.	number (float)
<b>max_write_bandwidth</b> <i>optional</i>	Maximum write rate in bytes per second.	number (float)
<b>max_write_iops</b> <i>optional</i>	Maximum write operations per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>timestamp</b> <i>optional</i>	Time at the beginning of sample period.	string (date-time)

# base\_performance\_metrics\_by\_nfs

Performance metrics for the nfs collected at twenty second interval.

Name	Description	Schema
<b>avg_io_size</b> <i>optional</i>	Average read and write size in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Average read and write latency in microseconds.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string
<b>read_iops</b> <i>optional</i>	Total read operations per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_iops</b> <i>optional</i>	Total read and write operations per second.	number (float)
<b>write_iops</b> <i>optional</i>	Total write operations per second.	number (float)



# base\_performance\_metrics\_by\_nfs\_rollup

Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Name	Description	Schema
<b>avg_io_size</b> <i>optional</i>	Average read and write size in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Maximum read and write latency in microseconds.	number (float)
<b>avg_read_iops</b> <i>optional</i>	Average read operations per second.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Maximum read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_total_iops</b> <i>optional</i>	Average read and write operations per second.	number (float)
<b>avg_write_iops</b> <i>optional</i>	Average write operations per second.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Maximum write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>max_avg_io_size</b> <i>optional</i>	Maximum of average read and write size in bytes.	number (float)
<b>max_avg_latency</b> <i>optional</i>	Maximum of average read and write latency in microseconds.	number (float)

Name	Description	Schema
<b>max_avg_read_latency</b> <i>optional</i>	Maximum of average read latency in microseconds.	number (float)
<b>max_avg_read_size</b> <i>optional</i>	Maximum of average read size in bytes.	number (float)
<b>max_avg_write_latency</b> <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
<b>max_avg_write_size</b> <i>optional</i>	Maximum of average write size in bytes.	number (float)
<b>max_iops</b> <i>optional</i>	Maximum read and write operations per second.	number (float)
<b>max_read_iops</b> <i>optional</i>	Maximum read operations per second.	number (float)
<b>max_write_iops</b> <i>optional</i>	Maximum write operations per second.	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	Time at the beginning of sample period.	string (date-time)

## base\_performance\_metrics\_by\_nfsv3

Performance metrics for the nfs collected at twenty second interval.

Name	Description	Schema
<b>avg_md_latency</b> <i>optional</i>	Average md latency operations per second.	number (float)
<b>failed_md_ops</b> <i>optional</i>	Total failed md operations per second.	number (float)
<b>md_ops</b> <i>optional</i>	Total md operations per second.	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier of the nfs.	string
<b>read_iops</b> <i>optional</i>	Total read iops in microseconds.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_iops</b> <i>optional</i>	Total read and write iops in microseconds.	number (float)
<b>write_iops</b> <i>optional</i>	Total write iops in microseconds.	number (float)

## base\_performance\_metrics\_by\_nfsv3\_rollup

Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Name	Description	Schema
<b>avg_failed_md_ops</b> <i>optional</i>	Average failed operations per second.	number (float)

<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>avg_md_latency</b> <i>optional</i>	Average md latency per second.	number (float)
<b>avg_md_ops</b> <i>optional</i>	Average md operations per second.	number (float)
<b>avg_read_iops</b> <i>optional</i>	Average read operations per second.	number (float)
<b>avg_total_iops</b> <i>optional</i>	Average read and write operations per second.	number (float)
<b>avg_write_iops</b> <i>optional</i>	Average write operations per second.	number (float)
<b>max_avg_md_latency</b> <i>optional</i>	Maximum average md latency per second.	number (float)
<b>max_failed_md_ops</b> <i>optional</i>	Max failed operations per second.	number (float)
<b>max_read_iops</b> <i>optional</i>	Maximum read operations per second.	number (float)
<b>max_total_iops</b> <i>optional</i>	Maximum read and write operations per second.	number (float)
<b>max_write_iops</b> <i>optional</i>	Maximum write operations per second.	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string

Name	Description	Schema
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	Time at the beginning of sample period.	string (date-time)

## base\_performance\_metrics\_by\_nfsv4

Performance metrics for the nfs collected at twenty second interval.

Name	Description	Schema
<b>avg_md_latency</b> <i>optional</i>	Average md latency operations per second.	number (float)
<b>failed_md_ops</b> <i>optional</i>	Total failed md operations per second.	number (float)
<b>md_ops</b> <i>optional</i>	Total md operations per second.	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier of the nfs.	string
<b>read_iops</b> <i>optional</i>	Total read iops in microseconds.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_iops</b> <i>optional</i>	Total read and write iops in microseconds.	number (float)

Name	Description	Schema
<b>write_iops</b> <i>optional</i>	Total write iops in microseconds.	number (float)

## base\_performance\_metrics\_by\_nfsv4\_rollup

Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Name	Description	Schema
<b>avg_failed_md_ops</b> <i>optional</i>	Average failed operations per second.	number (float)
<b>avg_md_latency</b> <i>optional</i>	Average md latency per second.	number (float)
<b>avg_md_ops</b> <i>optional</i>	Average md operations per second.	number (float)
<b>avg_read_iops</b> <i>optional</i>	Average read operations per second.	number (float)
<b>avg_total_iops</b> <i>optional</i>	Average read and write operations per second.	number (float)
<b>avg_write_iops</b> <i>optional</i>	Average write operations per second.	number (float)
<b>max_avg_md_latency</b> <i>optional</i>	Maximum average md latency per second.	number (float)
<b>max_failed_md_ops</b> <i>optional</i>	Max failed operations per second.	number (float)
<b>max_read_iops</b> <i>optional</i>	Maximum read operations per second.	number (float)

Name	Description	Schema
<b>max_total_iops</b> <i>optional</i>	Maximum read and write operations per second.	number (float)
<b>max_write_iops</b> <i>optional</i>	Maximum write operations per second.	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	Time at the beginning of sample period.	string (date-time)

## base\_performance\_metrics\_by\_node

Performance metrics for the node collected at twenty second interval.

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
<b>avg_io_size</b> <i>optional</i>	Average size of read and write operations in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Average read and write latency in microseconds.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)

Name	Description	Schema
<b>avg_write_latency</b> <i>optional</i>	Average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>current_logins</b> <i>optional</i>	The number of logins to the target from initiators. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>io_workload_cpu_utilization</b> <i>optional</i>	The percentage of CPU Utilization on the cores dedicated to servicing storage I/O requests.	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier representing a specific node.	string
<b>read_bandwidth</b> <i>optional</i>	Read rate in bytes per second.	number (float)
<b>read_iops</b> <i>optional</i>	Total number of read operations by the node.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_bandwidth</b> <i>optional</i>	Total data transfer rate in bytes per second.	number (float)
<b>total_iops</b> <i>optional</i>	Total read and write operations per second.	number (float)
<b>unaligned_bandwidth</b> <i>optional</i>	Unaligned read/write rate in bytes per second.	number (float)



Name	Description	Schema
<b>unaligned_iops</b> <i>optional</i>	Unaligned total input/output per second.	number (float)
<b>unaligned_read_bandwidth</b> <i>optional</i>	Unaligned read rate in bytes per second.	number (float)
<b>unaligned_read_iops</b> <i>optional</i>	Unaligned read input/output per second.	number (float)
<b>unaligned_write_bandwidth</b> <i>optional</i>	Unaligned write rate in bytes per second.	number (float)
<b>unaligned_write_iops</b> <i>optional</i>	Unaligned write input/output per second.	number (float)
<b>write_bandwidth</b> <i>optional</i>	Write rate in byte/sec.	number (float)
<b>write_iops</b> <i>optional</i>	Total write operations per second.	number (float)

## base\_performance\_metrics\_by\_node\_rollup

Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period.

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
<b>avg_current_logins</b> <i>optional</i>	Average number of logins to the target from initiators. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>avg_io_size</b> <i>optional</i>	Average size of read and write operations in bytes.	number (float)

<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>avg_io_workload_cpu_utilization</b> <i>optional</i>	The average percentage of CPU Utilization on the cores dedicated to servicing storage I/O requests. Calculated over time across appliance. Derived from an average of utilization across all nodes within the appliance.	number (float)
<b>avg_latency</b> <i>optional</i>	Weighted average latency in microseconds.	number (float)
<b>avg_read_bandwidth</b> <i>optional</i>	Weighted average read bandwidth in bytes per second.	number (float)
<b>avg_read_iops</b> <i>optional</i>	Average reads per second.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Weighted average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Weighted average read size in bytes.	number (float)
<b>avg_total_bandwidth</b> <i>optional</i>	Weighted average total bandwidth in bytes per second.	number (float)
<b>avg_total_iops</b> <i>optional</i>	Average total input and output operations per second.	number
<b>avg_unaligned_bandwidth</b> <i>optional</i>	Average unaligned read/write rate in bytes per second.	number (float)
<b>avg_unaligned_iops</b> <i>optional</i>	Average unaligned total input/output per second.	number (float)
<b>avg_unaligned_read_bandwidth</b> <i>optional</i>	Average unaligned read rate in bytes per second.	number (float)

<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>avg_unaligned_read_iops</b> <i>optional</i>	Average unaligned read input/output per second.	number (float)
<b>avg_unaligned_write_bandwidth</b> <i>optional</i>	Average unaligned write rate in bytes per second.	number (float)
<b>avg_unaligned_write_iops</b> <i>optional</i>	Average unaligned write input/output per second.	number (float)
<b>avg_write_bandwidth</b> <i>optional</i>	Weighted average write bandwidth in bytes per second.	number (float)
<b>avg_write_iops</b> <i>optional</i>	Average writes per second.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Weighted average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Weighted average write size in bytes.	number (float)
<b>max_avg_io_size</b> <i>optional</i>	Maximum average size of input and output operations in bytes.	number (float)
<b>max_avg_latency</b> <i>optional</i>	Maximum of average latency in microseconds.	number (float)
<b>max_avg_read_latency</b> <i>optional</i>	Maximum read latency in microseconds.	number (float)
<b>max_avg_read_size</b> <i>optional</i>	Maximum of average read size in bytes.	number (float)

Name	Description	Schema
<b>max_avg_write_latency</b> <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
<b>max_avg_write_size</b> <i>optional</i>	Maximum of average write size in bytes.	number (float)
<b>max_current_logins</b> <i>optional</i>	Maximum number of logins to the target from initiators. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_io_workload_cpu_utilization</b> <i>optional</i>	The maximum percentage of CPU Utilization on the cores dedicated to servicing storage I/O requests. Calculated over time across appliance. Derived from an average of utilization across all nodes within the appliance.	number (float)
<b>max_read_bandwidth</b> <i>optional</i>	Maximum read bandwidth in bytes per second.	number (float)
<b>max_read_iops</b> <i>optional</i>	Maximum reads per second.	number (float)
<b>max_total_bandwidth</b> <i>optional</i>	Maximum total bandwidth in bytes per second.	number (float)
<b>max_total_iops</b> <i>optional</i>	Maximum totals per second.	number
<b>max_unaligned_bandwidth</b> <i>optional</i>	Maximum unaligned read/write rate in bytes per second.	number (float)
<b>max_unaligned_iops</b> <i>optional</i>	Maximum unaligned total input/output per second.	number (float)

Name	Description	Schema
<b>max_unaligned_read_bandwidth</b> <i>optional</i>	Maximum unaligned read rate in bytes per second.	number (float)
<b>max_unaligned_read_iops</b> <i>optional</i>	Maximum unaligned read input/output per second.	number (float)
<b>max_unaligned_write_bandwidth</b> <i>optional</i>	Maximum unaligned write rate in bytes per second.	number (float)
<b>max_unaligned_write_iops</b> <i>optional</i>	Maximum unaligned write input/output per second.	number (float)
<b>max_write_bandwidth</b> <i>optional</i>	Maximum write bandwidth in bytes per second.	number (float)
<b>max_write_iops</b> <i>optional</i>	Maximum writes per second.	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier representing a specific node.	string
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

## base\_performance\_metrics\_by\_smb\_cache

Performance metrics for the smb cache collected at twenty second interval.

Name	Description	Schema
<b>hash_avg_latency</b> <i>optional</i>	Average hash latency.	number (float)
<b>hash_avg_size</b> <i>optional</i>	Average hash size.	number (float)
<b>hash_max_latency</b> <i>optional</i>	Max hash latency.	number (float)
<b>hash_max_size</b> <i>optional</i>	Max hash size.	number (float)
<b>hash_min_latency</b> <i>optional</i>	Min hash latency.	number (float)
<b>hash_min_size</b> <i>optional</i>	Max hash size.	number (float)
<b>max_used_threads</b> <i>optional</i>	Max used threads	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_rejected_tasks</b> <i>optional</i>	Total rejected task.	number (float)
<b>total_tasks</b> <i>optional</i>	Total tasks.	number (float)

# base\_performance\_metrics\_by\_smb\_cache\_rollup

Performance metrics nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Name	Description	Schema
<b>hash_avg_latency</b> <i>optional</i>	Average hash latency.	number (float)
<b>hash_avg_size</b> <i>optional</i>	Average hash size.	number (float)
<b>hash_max_avg_latency</b> <i>optional</i>	Average max hash latency.	number (float)
<b>hash_max_avg_size</b> <i>optional</i>	Average max hash size.	number (float)
<b>hash_max_latency</b> <i>optional</i>	Max hash latency.	number (float)
<b>hash_max_size</b> <i>optional</i>	Max hash size.	number (float)
<b>hash_min_latency</b> <i>optional</i>	Min hash latency.	number (float)
<b>hash_min_size</b> <i>optional</i>	Max hash size.	number (float)
<b>max_used_threads</b> <i>optional</i>	Max used threads	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string

Name	Description	Schema
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_rejected_tasks</b> <i>optional</i>	Total rejected task.	number (float)
<b>total_tasks</b> <i>optional</i>	Total tasks.	number (float)

## base\_performance\_metrics\_by\_smb\_client

Performance metrics for the smb client collected at twenty second interval.

Name	Description	Schema
<b>avg_io_size</b> <i>optional</i>	Average read and write size in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Average read and write latency in microseconds.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)



Name	Description	Schema
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string
<b>read_iops</b> <i>optional</i>	Total read operations per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_calls</b> <i>optional</i>	Total calls.	number (float)
<b>total_iops</b> <i>optional</i>	Total read and write operations per second.	number (float)
<b>write_iops</b> <i>optional</i>	Total write operations per second.	number (float)

## base\_performance\_metrics\_by\_smb\_client\_rollup

Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Name	Description	Schema
<b>avg_calls</b> <i>optional</i>	Average calls.	number (float)
<b>avg_io_size</b> <i>optional</i>	Average read and write size in bytes.	number (float)
<b>avg_iops</b> <i>optional</i>	Average read and write operations per second.	number (float)
<b>avg_latency</b> <i>optional</i>	Maximum read and write latency in microseconds.	number (float)

<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>avg_read_iops</b> <i>optional</i>	Average read operations per second.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Maximum read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_iops</b> <i>optional</i>	Average write operations per second.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Maximum write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>max_avg_latency</b> <i>optional</i>	Maximum of average read and write latency in microseconds.	number (float)
<b>max_avg_read_latency</b> <i>optional</i>	Maximum of average read latency in microseconds.	number (float)
<b>max_avg_read_size</b> <i>optional</i>	Maximum of average read size in bytes.	number (float)
<b>max_avg_size</b> <i>optional</i>	Maximum of average read and write size in bytes.	number (float)
<b>max_avg_write_latency</b> <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
<b>max_avg_write_size</b> <i>optional</i>	Maximum of average write size in bytes.	number (float)

Name	Description	Schema
<b>max_calls</b> <i>optional</i>	Maximum calls.	number (float)
<b>max_iops</b> <i>optional</i>	Maximum read and write operations per second.	number (float)
<b>max_read_iops</b> <i>optional</i>	Maximum read operations per second.	number (float)
<b>max_write_iops</b> <i>optional</i>	Maximum write operations per second.	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>timestamp</b> <i>optional</i>	Time at the beginning of sample period.	string (date-time)

## base\_performance\_metrics\_by\_smb\_node

Performance metrics for the smb node collected at twenty second interval.

Name	Description	Schema
<b>avg_io_size</b> <i>optional</i>	Average read and write size in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Average read and write latency in microseconds.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Average read latency in microseconds.	number (float)

Name	Description	Schema
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string
<b>read_iops</b> <i>optional</i>	Total read operations per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_calls</b> <i>optional</i>	Total calls.	number (float)
<b>total_iops</b> <i>optional</i>	Total read and write operations per second.	number (float)
<b>write_iops</b> <i>optional</i>	Total write operations per second.	number (float)

## base\_performance\_metrics\_by\_smb\_node\_rollup

Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Name	Description	Schema
<b>avg_calls</b> <i>optional</i>	Average calls.	number (float)

<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>avg_io_size</b> <i>optional</i>	Average read and write size in bytes.	number (float)
<b>avg_iops</b> <i>optional</i>	Average read and write operations per second.	number (float)
<b>avg_latency</b> <i>optional</i>	Maximum read and write latency in microseconds.	number (float)
<b>avg_read_iops</b> <i>optional</i>	Average read operations per second.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Maximum read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_iops</b> <i>optional</i>	Average write operations per second.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Maximum write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>max_avg_latency</b> <i>optional</i>	Maximum of average read and write latency in microseconds.	number (float)
<b>max_avg_read_latency</b> <i>optional</i>	Maximum of average read latency in microseconds.	number (float)
<b>max_avg_read_size</b> <i>optional</i>	Maximum of average read size in bytes.	number (float)

Name	Description	Schema
<b>max_avg_size</b> <i>optional</i>	Maximum of average read and write size in bytes.	number (float)
<b>max_avg_write_latency</b> <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
<b>max_avg_write_size</b> <i>optional</i>	Maximum of average write size in bytes.	number (float)
<b>max_calls</b> <i>optional</i>	Maximum calls.	number (float)
<b>max_iops</b> <i>optional</i>	Maximum read and write operations per second.	number (float)
<b>max_read_iops</b> <i>optional</i>	Maximum read operations per second.	number (float)
<b>max_write_iops</b> <i>optional</i>	Maximum write operations per second.	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>timestamp</b> <i>optional</i>	Time at the beginning of sample period.	string (date-time)

## base\_performance\_metrics\_by\_smb\_v1\_builtin\_client

Performance metrics for the smb v1 client collected at twenty second interval.

Name	Description	Schema
<b>avg_io_size</b> <i>optional</i>	Average read and write size in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Average read and write latency in microseconds.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string
<b>read_iops</b> <i>optional</i>	Total read operations per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_calls</b> <i>optional</i>	Total calls.	number (float)
<b>total_iops</b> <i>optional</i>	Total read and write operations per second.	number (float)
<b>write_iops</b> <i>optional</i>	Total write operations per second.	number (float)

# base\_performance\_metrics\_by\_smb\_v1\_builtin\_client\_rollup

Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Name	Description	Schema
<b>avg_calls</b> <i>optional</i>	Average calls.	number (float)
<b>avg_io_size</b> <i>optional</i>	Average read and write size in bytes.	number (float)
<b>avg_iops</b> <i>optional</i>	Average read and write operations per second.	number (float)
<b>avg_latency</b> <i>optional</i>	Maximum read and write latency in microseconds.	number (float)
<b>avg_read_iops</b> <i>optional</i>	Average read operations per second.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Maximum read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_iops</b> <i>optional</i>	Average write operations per second.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Maximum write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>max_avg_latency</b> <i>optional</i>	Maximum of average read and write latency in microseconds.	number (float)



Name	Description	Schema
<b>max_avg_read_latency</b> <i>optional</i>	Maximum of average read latency in microseconds.	number (float)
<b>max_avg_read_size</b> <i>optional</i>	Maximum of average read size in bytes.	number (float)
<b>max_avg_size</b> <i>optional</i>	Maximum of average read and write size in bytes.	number (float)
<b>max_avg_write_latency</b> <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
<b>max_avg_write_size</b> <i>optional</i>	Maximum of average write size in bytes.	number (float)
<b>max_calls</b> <i>optional</i>	Maximum calls.	number (float)
<b>max_iops</b> <i>optional</i>	Maximum read and write operations per second.	number (float)
<b>max_read_iops</b> <i>optional</i>	Maximum read operations per second.	number (float)
<b>max_write_iops</b> <i>optional</i>	Maximum write operations per second.	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	Time at the beginning of sample period.	string (date-time)

# base\_performance\_metrics\_by\_smb\_v1\_node

Performance metrics for the smb v1 node collected at twenty second interval.

Name	Description	Schema
<b>avg_io_size</b> <i>optional</i>	Average read and write size in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Average read and write latency in microseconds.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string
<b>read_iops</b> <i>optional</i>	Total read operations per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_calls</b> <i>optional</i>	Total calls.	number (float)
<b>total_iops</b> <i>optional</i>	Total read and write operations per second.	number (float)

Name	Description	Schema
<b>write_iops</b> <i>optional</i>	Total write operations per second.	number (float)

## base\_performance\_metrics\_by\_smb\_v1\_node\_rollup

Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Name	Description	Schema
<b>avg_calls</b> <i>optional</i>	Average calls.	number (float)
<b>avg_io_size</b> <i>optional</i>	Average read and write size in bytes.	number (float)
<b>avg_iops</b> <i>optional</i>	Average read and write operations per second.	number (float)
<b>avg_latency</b> <i>optional</i>	Maximum read and write latency in microseconds.	number (float)
<b>avg_read_iops</b> <i>optional</i>	Average read operations per second.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Maximum read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_iops</b> <i>optional</i>	Average write operations per second.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Maximum write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)

<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>max_avg_latency</b> <i>optional</i>	Maximum of average read and write latency in microseconds.	number (float)
<b>max_avg_read_latency</b> <i>optional</i>	Maximum of average read latency in microseconds.	number (float)
<b>max_avg_read_size</b> <i>optional</i>	Maximum of average read size in bytes.	number (float)
<b>max_avg_size</b> <i>optional</i>	Maximum of average read and write size in bytes.	number (float)
<b>max_avg_write_latency</b> <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
<b>max_avg_write_size</b> <i>optional</i>	Maximum of average write size in bytes.	number (float)
<b>max_calls</b> <i>optional</i>	Maximum calls.	number (float)
<b>max_iops</b> <i>optional</i>	Maximum read and write operations per second.	number (float)
<b>max_read_iops</b> <i>optional</i>	Maximum read operations per second.	number (float)
<b>max_write_iops</b> <i>optional</i>	Maximum write operations per second.	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string

Name	Description	Schema
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>timestamp</b> <i>optional</i>	Time at the beginning of sample period.	string (date-time)

## base\_performance\_metrics\_by\_smb\_v2\_builtin\_client

Performance metrics for the smb v1 client collected at twenty second interval.

Name	Description	Schema
<b>avg_io_size</b> <i>optional</i>	Average read and write size in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Average read and write latency in microseconds.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string
<b>read_iops</b> <i>optional</i>	Total read operations per second.	number (float)

Name	Description	Schema
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_calls</b> <i>optional</i>	Total calls.	number (float)
<b>total_iops</b> <i>optional</i>	Total read and write operations per second.	number (float)
<b>write_iops</b> <i>optional</i>	Total write operations per second.	number (float)

## base\_performance\_metrics\_by\_smb\_v2\_builtin\_client\_rollup

Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Name	Description	Schema
<b>avg_calls</b> <i>optional</i>	Average calls.	number (float)
<b>avg_io_size</b> <i>optional</i>	Average read and write size in bytes.	number (float)
<b>avg_iops</b> <i>optional</i>	Average read and write operations per second.	number (float)
<b>avg_latency</b> <i>optional</i>	Maximum read and write latency in microseconds.	number (float)
<b>avg_read_iops</b> <i>optional</i>	Average read operations per second.	number (float)

<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>avg_read_latency</b> <i>optional</i>	Maximum read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_iops</b> <i>optional</i>	Average write operations per second.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Maximum write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>max_avg_latency</b> <i>optional</i>	Maximum of average read and write latency in microseconds.	number (float)
<b>max_avg_read_latency</b> <i>optional</i>	Maximum of average read latency in microseconds.	number (float)
<b>max_avg_read_size</b> <i>optional</i>	Maximum of average read size in bytes.	number (float)
<b>max_avg_size</b> <i>optional</i>	Maximum of average read and write size in bytes.	number (float)
<b>max_avg_write_latency</b> <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
<b>max_avg_write_size</b> <i>optional</i>	Maximum of average write size in bytes.	number (float)
<b>max_calls</b> <i>optional</i>	Maximum calls.	number (float)

Name	Description	Schema
<b>max_iops</b> <i>optional</i>	Maximum read and write operations per second.	number (float)
<b>max_read_iops</b> <i>optional</i>	Maximum read operations per second.	number (float)
<b>max_write_iops</b> <i>optional</i>	Maximum write operations per second.	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	Time at the beginning of sample period.	string (date-time)

## base\_performance\_metrics\_by\_smb\_v2\_node

Performance metrics for the smb v1 node collected at twenty second interval.

Name	Description	Schema
<b>avg_io_size</b> <i>optional</i>	Average read and write size in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Average read and write latency in microseconds.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)



Name	Description	Schema
<b>avg_write_latency</b> <i>optional</i>	Average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string
<b>read_iops</b> <i>optional</i>	Total read operations per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_calls</b> <i>optional</i>	Total calls.	number (float)
<b>total_iops</b> <i>optional</i>	Total read and write operations per second.	number (float)
<b>write_iops</b> <i>optional</i>	Total write operations per second.	number (float)

## base\_performance\_metrics\_by\_smb\_v2\_node\_rollup

Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

Name	Description	Schema
<b>avg_calls</b> <i>optional</i>	Average calls.	number (float)
<b>avg_io_size</b> <i>optional</i>	Average read and write size in bytes.	number (float)

<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>avg_iops</b> <i>optional</i>	Average read and write operations per second.	number (float)
<b>avg_latency</b> <i>optional</i>	Maximum read and write latency in microseconds.	number (float)
<b>avg_read_iops</b> <i>optional</i>	Average read operations per second.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Maximum read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_iops</b> <i>optional</i>	Average write operations per second.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Maximum write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>max_avg_latency</b> <i>optional</i>	Maximum of average read and write latency in microseconds.	number (float)
<b>max_avg_read_latency</b> <i>optional</i>	Maximum of average read latency in microseconds.	number (float)
<b>max_avg_read_size</b> <i>optional</i>	Maximum of average read size in bytes.	number (float)
<b>max_avg_size</b> <i>optional</i>	Maximum of average read and write size in bytes.	number (float)

Name	Description	Schema
<b>max_avg_write_latency</b> <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
<b>max_avg_write_size</b> <i>optional</i>	Maximum of average write size in bytes.	number (float)
<b>max_calls</b> <i>optional</i>	Maximum calls.	number (float)
<b>max_iops</b> <i>optional</i>	Maximum read and write operations per second.	number (float)
<b>max_read_iops</b> <i>optional</i>	Maximum read operations per second.	number (float)
<b>max_write_iops</b> <i>optional</i>	Maximum write operations per second.	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	Time at the beginning of sample period.	string (date-time)

## base\_performance\_metrics\_by\_vg

Performance metrics for the volumes in a volume group collected at twenty second interval.

Name	Description	Schema
<b>avg_io_size</b> <i>optional</i>	Average size of read and write operations in bytes.	number (float)

Name	Description	Schema
<b>avg_latency</b> <i>optional</i>	Average read and write latency in microseconds.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>read_bandwidth</b> <i>optional</i>	Read rate in byte/sec.	number (float)
<b>read_iops</b> <i>optional</i>	Total read operations per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_bandwidth</b> <i>optional</i>	Total data transfer rate in bytes per second.	number (float)
<b>total_iops</b> <i>optional</i>	Total read and write operations per second.	number (float)
<b>vg_id</b> <i>optional</i>	Unique identifier representing a volume group.	string

Name	Description	Schema
<b>write_bandwidth</b> <i>optional</i>	Write rate in byte/sec.	number (float)
<b>write_iops</b> <i>optional</i>	Total write operations per second.	number (float)

## base\_performance\_metrics\_by\_vm

Performance metrics for the virtual machine collected at twenty second interval.

Name	Description	Schema
<b>avg_io_size</b> <i>optional</i>	Average size of read and write operations in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Average read and write latency in microseconds.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>read_bandwidth</b> <i>optional</i>	Read rate in bytes per second.	number (float)
<b>read_iops</b> <i>optional</i>	Total read operations per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)

Name	Description	Schema
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_bandwidth</b> <i>optional</i>	Total data transfer rate in bytes per second.	number (float)
<b>total_iops</b> <i>optional</i>	Total read and write operations per second.	number (float)
<b>vm_id</b> <i>optional</i>	Unique identifier representing a specific virtual machine.	string
<b>write_bandwidth</b> <i>optional</i>	Write rate in byte/sec.	number (float)
<b>write_iops</b> <i>optional</i>	Total write operations per second.	number (float)

## base\_performance\_metrics\_by\_vm\_rollup

Summary of virtual machine level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period.

Name	Description	Schema
<b>avg_io_size</b> <i>optional</i>	Average size of read and write operations in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Weighted average latency in microseconds.	number (float)
<b>avg_read_bandwidth</b> <i>optional</i>	Weighted average read bandwidth in bytes per second.	number (float)
<b>avg_read_iops</b> <i>optional</i>	Average reads per second.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Weighted average read latency in microseconds.	number (float)

<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>avg_read_size</b> <i>optional</i>	Weighted average read size in bytes.	number (float)
<b>avg_total_bandwidth</b> <i>optional</i>	Weighted average total bandwidth in bytes per second.	number (float)
<b>avg_total_iops</b> <i>optional</i>	Average total input and output operations per second.	number (float)
<b>avg_write_bandwidth</b> <i>optional</i>	Weighted average write bandwidth in bytes per second.	number (float)
<b>avg_write_iops</b> <i>optional</i>	Average writes per second.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Weighted average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Weighted average write size in bytes.	number (float)
<b>max_avg_io_size</b> <i>optional</i>	Maximum average size of input and output operations in bytes.	number (float)
<b>max_avg_latency</b> <i>optional</i>	Maximum of average latency in microseconds.	number (float)
<b>max_avg_read_latency</b> <i>optional</i>	Maximum read latency in microseconds.	number (float)
<b>max_avg_read_size</b> <i>optional</i>	Maximum of average read size in bytes.	number (float)
<b>max_avg_write_latency</b> <i>optional</i>	Maximum of average write latency in microseconds.	number (float)

Name	Description	Schema
<b>max_avg_write_size</b> <i>optional</i>	Maximum of average write size in bytes.	number (float)
<b>max_read_bandwidth</b> <i>optional</i>	Maximum read bandwidth in bytes per second.	number (float)
<b>max_read_iops</b> <i>optional</i>	Maximum reads per second.	number (float)
<b>max_total_bandwidth</b> <i>optional</i>	Maximum total bandwidth in bytes per second.	number (float)
<b>max_total_iops</b> <i>optional</i>	Maximum totals per second.	number
<b>max_write_bandwidth</b> <i>optional</i>	Maximum write bandwidth in bytes per second.	number (float)
<b>max_write_iops</b> <i>optional</i>	Maximum writes per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>vm_id</b> <i>optional</i>	Unique identifier representing a specific virtual machine.	string

## base\_performance\_metrics\_by\_volume

Performance metrics for the volume collected at twenty second interval.



Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
<b>avg_io_size</b> <i>optional</i>	Average size of read and write operations in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Average read and write latency in microseconds.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>read_bandwidth</b> <i>optional</i>	Read rate in bytes per second.	number (float)
<b>read_iops</b> <i>optional</i>	Total read operations per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_bandwidth</b> <i>optional</i>	Total data transfer rate in bytes per second.	number (float)
<b>total_iops</b> <i>optional</i>	Total read and write operations per second.	number (float)

Name	Description	Schema
<b>volume_id</b> <i>optional</i>	Unique identifier representing a specific volume.	string
<b>write_bandwidth</b> <i>optional</i>	Write rate in byte/sec.	number (float)
<b>write_iops</b> <i>optional</i>	Total write operations per second.	number (float)

## base\_performance\_metrics\_by\_volume\_rollup

Summary of volume level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period.

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
<b>avg_io_size</b> <i>optional</i>	Average size of read and write operations in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Weighted average latency in microseconds.	number (float)
<b>avg_read_bandwidth</b> <i>optional</i>	Weighted average read bandwidth in bytes per second.	number (float)
<b>avg_read_iops</b> <i>optional</i>	Average reads per second.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Weighted average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Weighted average read size in bytes.	number (float)
<b>avg_total_bandwidth</b> <i>optional</i>	Weighted average total bandwidth in bytes per second.	number (float)

<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>avg_total_iops</b> <i>optional</i>	Average total input and output operations per second.	number
<b>avg_write_bandwidth</b> <i>optional</i>	Weighted average write bandwidth in bytes per second.	number (float)
<b>avg_write_iops</b> <i>optional</i>	Average writes per second.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Weighted average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Weighted average write size in bytes.	number (float)
<b>max_avg_io_size</b> <i>optional</i>	Maximum average size of input and output operations in bytes.	number (float)
<b>max_avg_latency</b> <i>optional</i>	Maximum of average latency in microseconds.	number (float)
<b>max_avg_read_latency</b> <i>optional</i>	Maximum read latency in microseconds.	number (float)
<b>max_avg_read_size</b> <i>optional</i>	Maximum of average read size in bytes.	number (float)
<b>max_avg_write_latency</b> <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
<b>max_avg_write_size</b> <i>optional</i>	Maximum of average write size in bytes.	number (float)

Name	Description	Schema
<b>max_read_bandwidth</b> <i>optional</i>	Maximum read bandwidth in bytes per second.	number (float)
<b>max_read_ios</b> <i>optional</i>	Maximum reads per second.	number (float)
<b>max_total_bandwidth</b> <i>optional</i>	Maximum total bandwidth in bytes per second.	number (float)
<b>max_total_ios</b> <i>optional</i>	Maximum totals per second.	number
<b>max_write_bandwidth</b> <i>optional</i>	Maximum write bandwidth in bytes per second.	number (float)
<b>max_write_ios</b> <i>optional</i>	Maximum writes per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>volume_id</b> <i>optional</i>	Unique identifier representing a specific volume.	string

## base\_response

Base response object Filtering on the fields of this embedded resource is not supported.

Name	Schema
<b>response_type</b> <i>required</i>	string

# base\_space\_metrics\_by\_appliance

Space metrics for the appliance collected at five minute interval.

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
<b>data_physical_used</b> <i>optional</i>	This metric represents amount of physical space user data occupies after deduplication and compression. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>data_reduction</b> <i>optional</i>	Ratio of the logical used space to data physical used space which is after deduplication and compression.	number (float)
<b>efficiency_ratio</b> <i>optional</i>	The overall efficiency is computed as a ratio of the total space provisioned to physical used space. For example, ten 2 GB volumes were provisioned and 1 GB of data is written to each of them. Each of the volumes has one snapshot as well, for another ten 2 GB volumes. All volumes are thinly provisioned with deduplication and compression applied, there is 4 GB of physical space used. Overall efficiency would be (20 * 2 GB) / 4 GB or 10:1. The efficiency_ratio value will be 10 in this example.	number (float)
<b>logical_provisioned</b> <i>optional</i>	Total configured size of all storage objects on an appliance. This metric includes all primaries, snaps and clones. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>logical_used</b> <i>optional</i>	Amount of data in bytes written to all storage objects on an appliance, without any deduplication and/or compression. This metric includes all primaries, snaps and clones. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>physical_total</b> <i>optional</i>	Total combined space on the physical drives of the appliance available for data. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)

Name	Description	Schema
<b>physical_used</b> <i>optional</i>	Total physical space consumed in the appliance, accounting for all efficiency mechanisms, as well as all data protection. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>shared_logical_used</b> <i>optional</i>	Amount of space the volume family needs to hold the data written by host and shared by snaps and fast-clones in the family. This does not include deduplication or compression. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>snapshot_savings</b> <i>optional</i>	Ratio of the amount of space that would have been used by snapshots if space efficiency was not applied to logical space used solely by snapshots. For example, an object is provisioned as 1 GB and it has two snapshots. Each snapshot has 200 MB of data. Snapshot savings will be (1 GB + 1 GB) / (0.2 GB + 0.2 GB) or 5:1. The snapshot_savings value will be 5 in this case.	number (float)
<b>thin_savings</b> <i>optional</i>	Ratio of all the vVol provisioned to data they contain. This is the ratio of logical_provisioned to logical_used. For example, a cluster has two 2 GB objects and have written 500 MB bytes of data to them. The thin savings would be (2 * 2 GB) / (2 * 0.5 GB) or 4:1, so the thin_savings value would be 4.0.	number (float)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

## base\_space\_metrics\_by\_appliance\_rollup

Summary of appliance level space metric data for a specific period of time, beginning with timestamp and including the maximum and final values for that period. Current support is for a time period of one hour and one day.

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string

Name	Description	Schema
<b>last_data_physical_used</b> <i>optional</i>	Last physical used space for data during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>last_data_reduction</b> <i>optional</i>	Last data reduction space during the period.	number (float)
<b>last_efficiency_ratio</b> <i>optional</i>	Last efficiency ratio during the period.	number (float)
<b>last_logical_provisioned</b> <i>optional</i>	Last logical total space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>last_logical_used</b> <i>optional</i>	Last logical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>last_physical_total</b> <i>optional</i>	Last physical total space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>last_physical_used</b> <i>optional</i>	Last physical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>last_shared_logical_used</b> <i>optional</i>	Last shared logical used during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>last_snapshot_savings</b> <i>optional</i>	Last snapshot savings space during the period.	number (float)
<b>last_thin_savings</b> <i>optional</i>	Last thin savings ratio during the period.	number (float)
<b>max_data_physical_used</b> <i>optional</i>	Maximum physical used space for data during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)

Name	Description	Schema
<b>max_data_reduction</b> <i>optional</i>	Maximum data reduction space during the period.	number (float)
<b>max_efficiency_ratio</b> <i>optional</i>	Maximum efficiency ratio during the period.	number (float)
<b>max_logical_provisioned</b> <i>optional</i>	Maximum logical total space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_logical_used</b> <i>optional</i>	Maximum logical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_physical_total</b> <i>optional</i>	Maximum physical total space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_physical_used</b> <i>optional</i>	Maximum physical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_shared_logical_used</b> <i>optional</i>	Maximum shared logical used during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_snapshot_savings</b> <i>optional</i>	Maximum snapshot savings space during the period.	number (float)
<b>max_thin_savings</b> <i>optional</i>	Maximum thin savings ratio during the period.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)



# base\_space\_metrics\_by\_cluster

Space metrics for the cluster collected at five minute interval.

Name	Description	Schema
<b>cluster_id</b> <i>optional</i>	Identifier of the cluster.	string
<b>data_physical_used</b> <i>optional</i>	This metric represents total amount of physical space user data occupies after deduplication and compression. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>data_reduction</b> <i>optional</i>	Ratio of the logical used space to data physical used space which is after deduplication and compression.	number (float)
<b>efficiency_ratio</b> <i>optional</i>	The overall efficiency is computed as a ratio of the total space provisioned to physical used space. For example, ten 2 GB volumes were provisioned and 1 GB of data is written to each of them. Each of the volumes has one snapshot as well, for another ten 2 GB volumes. All volumes are thinly provisioned with deduplication and compression applied, there is 4 GB of physical space used. Overall efficiency would be (20 * 2 GB) / 4 GB or 10:1. The efficiency_ratio value will be 10 in this example.	number (float)
<b>logical_provisioned</b> <i>optional</i>	Total configured size of all storage objects within the cluster. This metric includes all primaries, snaps and clones. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>logical_used</b> <i>optional</i>	Amount of data in bytes written to all storage objects within the cluster, without any deduplication and/or compression. This metric includes all primaries, snaps and clones. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>physical_total</b> <i>optional</i>	The total combined space on the physical drives of the cluster available for data. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)

Name	Description	Schema
<b>physical_used</b> <i>optional</i>	The total physical space consumed in the cluster, accounting for all efficiency mechanisms, as well as all data protection. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>shared_logical_used</b> <i>optional</i>	Cluster shared logical used is sum of appliances' shared logical used in the cluster. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>snapshot_savings</b> <i>optional</i>	Ratio of the amount of space that would have been used by snapshots if space efficiency was not applied to logical space used solely by snapshots. For example, an object is provisioned as 1 GB and it has two snapshots. Each snapshot has 200 MB of data. Snapshot savings will be (1 GB + 1 GB) / (0.2 GB + 0.2 GB) or 5:1. The snapshot_savings value will be 5 in this case.	number (float)
<b>thin_savings</b> <i>optional</i>	Ratio of all the vVol provisioned to data they contain. This is the ratio of logical_provisioned to logical_used. For example, a cluster has two 2 GB objects and have written 500 MB bytes of data to them. The thin savings would be (2 * 2 GB) / (2 * 0.5 GB) or 4:1, so the thin_savings value would be 4.0.	number (float)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

## base\_space\_metrics\_by\_cluster\_rollup

Summary of cluster level space metric data for a specific period of time, beginning with timestamp, including the maximum and final values for that period. Current support is for a time period of one hour and one day.

Name	Description	Schema
<b>cluster_id</b> <i>optional</i>	Identifier of the cluster.	string

Name	Description	Schema
<b>last_data_physical_used</b> <i>optional</i>	Last physical used space for data during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>last_data_reduction</b> <i>optional</i>	Last data reduction space during the period.	number (float)
<b>last_efficiency_ratio</b> <i>optional</i>	Last efficiency ratio during the period.	number (float)
<b>last_logical_provisioned</b> <i>optional</i>	Last logical total space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>last_logical_used</b> <i>optional</i>	Last logical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>last_physical_total</b> <i>optional</i>	Last physical total space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>last_physical_used</b> <i>optional</i>	Last physical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>last_shared_logical_used</b> <i>optional</i>	Last shared logical used during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>last_snapshot_savings</b> <i>optional</i>	Last snapshot savings space during the period.	number (float)
<b>last_thin_savings</b> <i>optional</i>	Last thin savings ratio during the period.	number (float)
<b>max_data_physical_used</b> <i>optional</i>	Maximum physical used space for data during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)

Name	Description	Schema
<b>max_data_reduction</b> <i>optional</i>	Maximum data reduction space during the period.	number (float)
<b>max_efficiency_ratio</b> <i>optional</i>	Maximum efficiency ratio during the period.	number (float)
<b>max_logical_provisioned</b> <i>optional</i>	Maximum logical total space during the period. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>max_logical_used</b> <i>optional</i>	Maximum logical used space during the period. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>max_physical_total</b> <i>optional</i>	Maximum physical total space during the period. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>max_physical_used</b> <i>optional</i>	Maximum physical used space during the period. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>max_shared_logical_used</b> <i>optional</i>	Maximum shared logical used during the period. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>max_snapshot_savings</b> <i>optional</i>	Maximum snapshot savings space during the period.	number (float)
<b>max_thin_savings</b> <i>optional</i>	Maximum thin savings ratio during the period.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

# base\_space\_metrics\_by\_storage\_container

Space metrics of storage container aggregated from all appliances collected at five minute interval.

Name	Description	Schema
<b>logical_provisioned</b> <i>optional</i>	Total configured size in bytes of the primary and clone virtual volumes within the storage container. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>logical_used</b> <i>optional</i>	Amount of data in bytes written to primary and clone virtual volumes within the storage container. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>snapshot_savings</b> <i>optional</i>	Ratio of the amount of space that would have been used by snapshots if space efficiency was not applied to logical space used solely by snapshots. For example, a volume is provisioned as 1 GB and it has two snapshots. Each snapshot has 200 MB of data. Snapshot savings will be $(1\text{ GB} + 1\text{ GB}) / (0.2\text{ GB} + 0.2\text{ GB})$ or 5:1. The snapshot_savings value will be 5 in this case.	number (float)
<b>storage_container_id</b> <i>optional</i>	Internal ID of the storage container.	string
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

# base\_space\_metrics\_by\_storage\_container\_rollup

Summary of storage container level space metric data for a specific period of time beginning with timestamp, including the maximum and final values for that period. Current support is for a time period of one hour and one day.

Name	Description	Schema
<b>last_logical_provisioned</b> <i>optional</i>	Last logical provisioned space during the period. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)

Name	Description	Schema
<b>last_logical_used</b> <i>optional</i>	Last logical used space during the period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>last_snapshot_savings</b> <i>optional</i>	Last snapshot savings during the period.	number (float)
<b>max_logical_provisioned</b> <i>optional</i>	Maximum logical provisioned space during the period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>max_logical_used</b> <i>optional</i>	Maximum logical used space during the period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>max_snapshot_savings</b> <i>optional</i>	Maximum snapshot savings during the period.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>storage_container_id</b> <i>optional</i>	Internal ID of the storage container.	string
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

## base\_space\_metrics\_by\_vg

Space metrics for a volume group collected at a five minute interval.

Name	Description	Schema
<b>logical_provisioned</b> <i>optional</i>	Total configured size in bytes of all member volumes in a volume group. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)

Name	Description	Schema
<b>logical_used</b> <i>optional</i>	Total amount of data in bytes written to all member volumes in a volume group. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>snap_clone_logical_used</b> <i>optional</i>	Total amount of data in bytes host has written to all volumes in the volume group without any deduplication, compression or sharing. This metric includes used snaps and clones in the volume group. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>snapshot_savings</b> <i>optional</i>	Ratio of the amount of space that would have been used by snapshots in the volume group if space efficiency was not applied to logical space used solely by snapshots. For example, two volumes are provisioned as 1 GB and each has two snapshots. Each snapshot has 200 MB of data. Snapshot savings will be $(1\text{ GB} * 2 + 1\text{ GB} * 2) / (0.2\text{ GB} * 2 + 0.2\text{ GB} * 2)$ or 5:1. The snapshot_savings value will be 5 in this case.	number (float)
<b>thin_savings</b> <i>optional</i>	Ratio of all the volumes provisioned to data being written to them. For example, a volume group has two 2 GB volumes and have written 500 MB of data to them. The thin savings would be $(2 * 2\text{ GB}) / (2 * 0.5\text{ GB})$ or 4:1, so the thin_savings value would be 4.0.	number (float)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>vg_id</b> <i>optional</i>	Unique identifier representing a volume group.	string

## base\_space\_metrics\_by\_vg\_rollup

Summary of volume group level space metric data for one hour or one day period beginning with timestamp, including the maximum and final values for that period.

Name	Description	Schema
<b>last_logical_provisioned</b> <i>optional</i>	Last logical provisioned space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>last_logical_used</b> <i>optional</i>	Last logical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>last_snap_clone_logical_used</b> <i>optional</i>	Last snap and clone logical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>last_snapshot_savings</b> <i>optional</i>	Last snapshot savings space during the period.	number (float)
<b>last_thin_savings</b> <i>optional</i>	Last thin savings ratio during the period.	number (float)
<b>max_logical_provisioned</b> <i>optional</i>	Max logical provisioned space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_logical_used</b> <i>optional</i>	Maximum logical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_snap_clone_logical_used</b> <i>optional</i>	Max snap and clone logical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_snapshot_savings</b> <i>optional</i>	Max snapshot savings space during the period.	number (float)
<b>max_thin_savings</b> <i>optional</i>	Max thin savings ratio during the period.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)



Name	Description	Schema
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>vg_id</b> <i>optional</i>	Unique identifier representing a specific volume group.	string

## base\_space\_metrics\_by\_vm

Space metrics for the VM collected at five minute interval.

Name	Description	Schema
<b>logical_provisioned</b> <i>optional</i>	Total configured size in bytes of all virtual volumes used by virtual machine. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>logical_used</b> <i>optional</i>	Total amount of data in bytes written to all virtual volumes used by virtual machine. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>snap_clone_logical_used</b> <i>optional</i>	Total Amount of data in bytes host has written to all volumes used by virtual machine without any deduplication, compression or sharing. This metric includes snaps and clones in the volume family used by virtual machine. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>snapshot_savings</b> <i>optional</i>	Ratio of the amount of space that would have been used by snapshots if space efficiency was not applied to logical space used solely by snapshots of vVols used by virtual machine. For example, a vVol is provisioned as 1 GB and it has two snapshots. Each snapshot has 200 MB of data. Snapshot savings will be (1 GB + 1 GB) / (0.2 GB + 0.2 GB) or 5:1. The snapshot_savings value will be 5 in this case.	number (float)

Name	Description	Schema
<b>thin_savings</b> <i>optional</i>	Ratio of all the vVol provisioned to data they contain. This is the ratio of logical_provisioned to logical_used. For example, a VM has two 2 GB vVol's and have written 500 MB of data to them. The thin savings would be (2 * 2GB) / (2 * 0.5 GB) or 4:1, so the thin_savings value would be 4.0.	number (float)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>unique_physical_used</b> <i>optional</i>	Amount of physical space virtual machine used after compression and deduplication. This is the space to be freed up if a virtual machine is removed. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>vm_id</b> <i>optional</i>	Unique identifier representing a specific virtual machine.	string

## base\_space\_metrics\_by\_vm\_rollup

Summary of VM level space metric data for one hour or one day period beginning with timestamp, including the maximum and final values for that period.

Name	Description	Schema
<b>last_logical_provisioned</b> <i>optional</i>	Last logical provisioned space during the period. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>last_logical_used</b> <i>optional</i>	Last logical used space during the period. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>last_snapshot_clone_logical_used</b> <i>optional</i>	Last snap and clone logical used space during the period. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>last_snapshot_savings</b> <i>optional</i>	Last snapshot savings space during the period.	number (float)
<b>last_thin_savings</b> <i>optional</i>	Last thin savings ratio during the period.	number (float)

Name	Description	Schema
<b>last_unique_physical_used</b> <i>optional</i>	Last unique physical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_logical_provisioned</b> <i>optional</i>	Max logical provisioned space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_logical_used</b> <i>optional</i>	Max logical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_snap_clone_logical_used</b> <i>optional</i>	Max snap and clone logical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_snapshot_savings</b> <i>optional</i>	Max snapshot savings space during the period.	number (float)
<b>max_thin_savings</b> <i>optional</i>	Max thin savings ratio during the period.	number (float)
<b>max_unique_physical_used</b> <i>optional</i>	Max unique physical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>vm_id</b> <i>optional</i>	Unique identifier representing a specific virtual machine.	string

## base\_space\_metrics\_by\_volume

Space metrics for the volume collected at five minute interval.

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
<b>logical_provisioned</b> <i>optional</i>	Configured size in bytes of a volume which amount of data can be written to. This metric includes primaries, snaps and clones. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>logical_used</b> <i>optional</i>	Amount of data in bytes host has written to a volume without any deduplication, compression or sharing. This metric includes primaries, snaps and clones. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>thin_savings</b> <i>optional</i>	Ratio of all the volumes provisioned to data being written to them. For example, an appliance has two 2 GB volumes and have written 500 MB of data to them. The thin savings would be $(2 \text{ GB} * 2) / (0.5 \text{ GB} * 2)$ or 4:1, so the thin_savings value would be 4.0.	number (float)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>volume_id</b> <i>optional</i>	ID of the volume.	string

## base\_space\_metrics\_by\_volume\_family

Space metrics for the volume family collected at five minute interval.

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
<b>family_id</b> <i>optional</i>	ID of the family.	string

Name	Description	Schema
<b>logical_provisioned</b> <i>optional</i>	Configured size in bytes of a volume which amount of data can be written to. This metric includes primaries, snaps and clones. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>logical_used</b> <i>optional</i>	Amount of data in bytes host has written to a volume family without any deduplication, compression or sharing. This metric includes primaries, snaps and clones. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>shared_logical_used</b> <i>optional</i>	Amount of space the volume family needs to hold the data written by host and shared by snaps and fast-clones in the family. This does not include deduplication or compression. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>snap_clone_logical_used</b> <i>optional</i>	Total Amount of data in bytes host has written to all volumes in the volume family without any deduplication, compression or sharing. This metric includes snaps and clones in the volume family. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>snapshot_savings</b> <i>optional</i>	Ratio of the amount of space that would have been used by snapshots if space efficiency was not applied to logical space used solely by snapshots. For example, a volume is provisioned as 1 GB bytes and it has two snapshots. Each snapshot has 200 MB of data. Snapshot savings will be $(1 \text{ GB} + 1 \text{ GB}) / (0.2 \text{ GB} + 0.2 \text{ GB})$ or 5:1. The snapshot_savings value will be 5 in this case.	number (float)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

Name	Description	Schema
<b>unique_physical_used</b> <i>optional</i>	Amount of physical space volume family used after compression and deduplication. This is the space to be freed up if a volume family is removed from the appliance. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)

## base\_space\_metrics\_by\_volume\_family\_rollup

Space metrics for the volume family for one hour or one day period beginning with timestamp, including the maximum and final values for that period.

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
<b>family_id</b> <i>optional</i>	ID of the family.	string
<b>last_logical_provisioned</b> <i>optional</i>	Last logical provisioned space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>last_logical_used</b> <i>optional</i>	Last logical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>last_shared_logical_used</b> <i>optional</i>	Last shared logical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>last_snap_clone_logical_used</b> <i>optional</i>	Last snap and clone logical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>last_snapshot_savings</b> <i>optional</i>	Last snapshot savings space during the period.	number (float)
<b>last_unique_physical_used</b> <i>optional</i>	Last unique physical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)

Name	Description	Schema
<b>max_logical_provisioned</b> <i>optional</i>	Max logical provisioned space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_logical_used</b> <i>optional</i>	Max logical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_shared_logical_used</b> <i>optional</i>	Max shared logical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_snap_clone_logical_used</b> <i>optional</i>	Max snap and clone logical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_snapshot_savings</b> <i>optional</i>	Max snapshot savings space during the period.	number (float)
<b>max_unique_physical_used</b> <i>optional</i>	Max unique physical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

## base\_space\_metrics\_by\_volume\_rollup

Summary of volume level space metric data for one hour or one day period beginning with timestamp, including the maximum and final values for that period.

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string

Name	Description	Schema
<b>last_logical_provisioned</b> <i>optional</i>	Last logical provisioned space during the period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>last_logical_used</b> <i>optional</i>	Last logical used space during the period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>last_thin_savings</b> <i>optional</i>	Last thin savings ratio during the period.	number (float)
<b>max_logical_provisioned</b> <i>optional</i>	Max logical provisioned space during the period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>max_logical_used</b> <i>optional</i>	Max logical used space during the period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>max_thin_savings</b> <i>optional</i>	Max thin savings ratio during the period.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>volume_id</b> <i>optional</i>	ID of the volume.	string

## base\_wear\_metrics\_by\_drive\_instance

Wear metrics for the drives collected at twenty second interval.

Name	Description	Schema
<b>drive_id</b> <i>optional</i>	Reference to the associated drive which these metrics were recorded.	string



Name	Description	Schema
<b>percent_endurance_remaining</b> <i>optional</i>	The percentage of drive wear remaining.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics is repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

## bond\_instance

This resource type has queryable associations from ip\_port, eth\_port

Name	Description	Schema
<b>eth_ports</b> <i>optional</i>	This is the inverse of the resource type eth_port association.	< <a href="#">eth_port_instance</a> > array
<b>id</b> <i>optional</i>	Unique identifier of the bond.	string
<b>ip_ports</b> <i>optional</i>	This is the inverse of the resource type ip_port association.	< <a href="#">ip_port_instance</a> > array
<b>is_link_up</b> <i>optional</i>	Indicates whether the bond's link is up. Values are:  <b>true</b> Link is up.  <b>false</b> Link is down.	boolean
<b>mode</b> <i>optional</i>		<a href="#">BondingModeEnum</a>
<b>mode_l10n</b> <i>optional</i>	Localized message string corresponding to mode	string

Name	Description	Schema
<b>mtu</b> <i>optional</i>	Maximum Transmission Unit (MTU) packet size that the bond can transmit, in bytes. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>name</b> <i>optional</i>	Bond name. This property supports case-insensitive filtering	string

## chap\_config\_instance

Name	Description	Schema
<b>id</b> <i>optional</i>	Unique id of the CHAP config settings instance (always "0").	string
<b>mode</b> <i>optional</i>		<a href="#">CHAPModeEnum</a>
<b>mode_l10n</b> <i>optional</i>	Localized message string corresponding to mode	string

## chap\_config\_modify

Name	Schema
<b>mode</b> <i>required</i>	<a href="#">CHAPModeEnum</a>

## chap\_credentials\_instance

Information about the initiator, target session, or discovery CHAP secrets.

Name	Description	Schema
<b>initiator_discovery_password</b> <i>optional</i>	Password used by the initiator to authenticate the target during discovery authentication. Mutual CHAP mode only.	string (password)
<b>initiator_discovery_username</b> <i>optional</i>	Username used by the initiator to authenticate the target during discovery authentication. Mutual CHAP mode only.	string

Name	Description	Schema
<b>initiator_session_password</b> <i>optional</i>	Password used by the initiator to authenticate the target during session authentication. Mutual CHAP mode only.	string (password)
<b>initiator_session_username</b> <i>optional</i>	Username used by the initiator to authenticate the target during session authentication. Mutual CHAP mode only.	string
<b>target_discovery_password</b> <i>optional</i>	Password used by the target to authenticate the initiator during discovery authentication. Single CHAP mode only.	string (password)
<b>target_discovery_username</b> <i>optional</i>	Username used by the target to authenticate the initiator during discovery authentication. Single CHAP mode only.	string
<b>target_session_password</b> <i>optional</i>	Password used by the target to authenticate the initiator during session authentication. Single CHAP mode only.	string (password)
<b>target_session_username</b> <i>optional</i>	Username used by the target to authenticate the initiator during session authentication. Single CHAP mode only.	string

## cluster\_forecast

Name	Schema
<b>metric_type</b> <i>required</i>	<a href="#">ForecastMetricTypeEnum</a>

## cluster\_forecast\_response

Name	Description	Schema
<b>high_value</b> <i>optional</i>	Estimate of the upper bound of the 95% confidence interval for the forecast value at the given timestamp. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)

Name	Description	Schema
<b>low_value</b> <i>optional</i>	Estimate of the lower bound of the 95% confidence interval for the forecast value at the given timestamp. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>mean_value</b> <i>optional</i>	Estimate for the mean forecast value at the given timestamp. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>timestamp</b> <i>optional</i>	Timestamp when the forecast was performed.	string (date-time)

## cluster\_instance

Name	Description	Schema
<b>appliance_count</b> <i>optional</i>	Number of appliances configured in this cluster. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>compatibility_level</b> <i>optional</i>	The behavioral version of the software version API, and it is used to help ensure compatibility across potentially different software versions. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>global_id</b> <i>optional</i>	The global id of the cluster.	string
<b>id</b> <i>optional</i>	The id of the cluster.	string
<b>is_encryption_enabled</b> <i>optional</i>	Whether or not Data at Rest Encryption is enabled on the cluster.	boolean
<b>management_address</b> <i>optional</i>	The management IP address.	string (ip-address)

Name	Description	Schema
<b>master_appliance_id</b> <i>optional</i>	The id of the appliance acting as master.	string
<b>name</b> <i>optional</i>	The name of the cluster.	string
<b>physical_mtu</b> <i>optional</i>	The physical ethernet port (eth_port resource) MTU setting, global for all ports in the cluster. This is the default MTU setting for IP traffic, and the upper limit on network-specific MTU settings (network resource), where this can be overridden for some specific kinds of traffic (management, data, and vmotion). <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>state</b> <i>optional</i>		<a href="#">ClusterStateEnum</a>
<b>state_l10n</b> <i>optional</i>	Localized string corresponding to state.	string
<b>storage_discovery_address</b> <i>optional</i>	The floating storage discovery address for the cluster.	string (ip-address)

## cluster\_modify

Name	Description	Schema
<b>name</b> <i>optional</i>	The name of the cluster. The name can be up to 64 UTF-8 characters and cannot be an empty string. <b>Length : 1 - 64</b>	string
<b>physical_mtu</b> <i>optional</i>	The physical ethernet port (eth_port resource) MTU setting, global for all ports in the cluster. This is the default MTU setting for IP traffic, and the upper limit on network-specific MTU settings (network resource), where this can be overridden for some specific kinds of traffic (management, data, and vmotion). This value must be in the range 1500-9000. <b>Minimum value : 1500</b> <b>Maximum value : 9000</b>	integer (int32)

## cluster\_time\_to\_full

Name	Schema
<b>metric_type</b> <i>required</i>	<a href="#">ForecastMetricTypeEnum</a>

## cluster\_time\_to\_full\_response

Name	Description	Schema
<b>cluster_id</b> <i>optional</i>	Unique ID of the cluster.	string
<b>end_of_forecast</b> <i>optional</i>	Timestamp of the end of the capacity forecast. If time to full estimates are null, the relevant forecast does not reach full capacity before it ends. In this case the end of the forecast can be used as a minimum for time to full.	string (date-time)
<b>time_to_full</b> <i>optional</i>	Estimated date-time at which the forecast value will reach full capacity.	string (date-time)
<b>time_to_full_optimistic</b> <i>optional</i>	Optimistic date-time for time to full based on the lower bound of the forecast 95% confidence interval.	string (date-time)
<b>time_to_full_pessimistic</b> <i>optional</i>	Pessimistic date-time for time to full based on the upper bound of the forecast 95% confidence interval.	string (date-time)
<b>time_to_full_status</b> <i>optional</i>		<a href="#">ForecastTimeToFullStatusEnum</a>
<b>time_to_full_status_l10n</b> <i>optional</i>	Localized message string corresponding to time_to_full_status	string

## copy\_metrics\_by\_appliance

Copy metrics for the appliance.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Unique identifier of the appliance.	string
<b>data_remaining</b> <i>optional</i>	Number of bytes remaining to be copied at the end of this sampling period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>data_transferred</b> <i>optional</i>	Number of bytes transferred during this sampling period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>read_time</b> <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>session_type</b> <i>optional</i>		<a href="#">CopySessionTypeEnum</a>
<b>session_type_l10n</b> <i>optional</i>	Localized message string corresponding to session_type	string
<b>timestamp</b> <i>optional</i>	End of sampling period.	string (date-time)
<b>transfer_rate</b> <i>optional</i>	Data transfer rate (in bytes/second) computed using data_transferred and transfer_time.	number (float)

Name	Description	Schema
<b>transfer_time</b> <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>write_time</b> <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)

## copy\_metrics\_by\_cluster

Copy metrics for the cluster.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>data_remaining</b> <i>optional</i>	Number of bytes remaining to be copied at the end of this sampling period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>data_transferred</b> <i>optional</i>	Number of bytes transferred during this sampling period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>read_time</b> <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)



Name	Description	Schema
<b>session_type</b> <i>optional</i>		<a href="#">CopySessionTypeEnum</a>
<b>session_type_10n</b> <i>optional</i>	Localized message string corresponding to session_type	string
<b>timestamp</b> <i>optional</i>	End of sampling period.	string (date-time)
<b>transfer_rate</b> <i>optional</i>	Data transfer rate (in bytes/second) computed using data_transferred and transfer_time.	number (float)
<b>transfer_time</b> <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>write_time</b> <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)

## copy\_metrics\_by\_remote\_system

Cluster wide copy metrics for the remote system.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>data_remaining</b> <i>optional</i>	Number of bytes remaining to be copied at the end of this sampling period. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>data_transferred</b> <i>optional</i>	Number of bytes transferred during this sampling period. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>

Name	Description	Schema
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>read_time</b> <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>remote_system_id</b> <i>optional</i>	Unique identifier of the remote system.	string
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>session_type</b> <i>optional</i>		<a href="#">CopySessionTypeEnum</a>
<b>session_type_l10n</b> <i>optional</i>	Localized message string corresponding to session_type	string
<b>timestamp</b> <i>optional</i>	End of sampling period.	string (date-time)
<b>transfer_rate</b> <i>optional</i>	Data transfer rate (in bytes/second) computed using data_transferred and transfer_time.	number (float)
<b>transfer_time</b> <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>write_time</b> <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)

# copy\_metrics\_by\_vg

Cluster wide copy metrics for the volume group.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>data_remaining</b> <i>optional</i>	Number of bytes remaining to be copied at the end of this sampling period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>data_transferred</b> <i>optional</i>	Number of bytes transferred during this sampling period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>read_time</b> <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>session_type</b> <i>optional</i>		<a href="#">CopySessionTypeEnum</a>
<b>session_type_l10n</b> <i>optional</i>	Localized message string corresponding to session_type	string
<b>timestamp</b> <i>optional</i>	End of sampling period.	string (date-time)

Name	Description	Schema
<b>transfer_rate</b> <i>optional</i>	Data transfer rate (in bytes/second) computed using data_transferred and transfer_time.	number (float)
<b>transfer_time</b> <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>vg_id</b> <i>optional</i>	Unique identifier of the volume group.	string
<b>write_time</b> <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)

## copy\_metrics\_by\_volume

Cluster wide copy metrics for the volume.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>data_remaining</b> <i>optional</i>	Number of bytes remaining to be copied at the end of this sampling period. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>data_transferred</b> <i>optional</i>	Number of bytes transferred during this sampling period. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>read_time</b> <i>optional</i>	Time (in milliseconds) spent doing reads during this sampling period. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)

Name	Description	Schema
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>session_type</b> <i>optional</i>		<a href="#">CopySessionTypeEnum</a>
<b>session_type_1</b> <b>10n</b> <i>optional</i>	Localized message string corresponding to session_type	string
<b>timestamp</b> <i>optional</i>	End of sampling period.	string (date-time)
<b>transfer_rate</b> <i>optional</i>	Data transfer rate (in bytes/second) computed using data_transferred and transfer_time.	number (float)
<b>transfer_time</b> <i>optional</i>	The time (in milliseconds) spent in copy activity during this sampling period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>volume_id</b> <i>optional</i>	Unique identifier of the volume.	string
<b>write_time</b> <i>optional</i>	Time (in milliseconds) spent doing writes during this sampling period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)

## create\_response

Create response for an operation.

Name	Description	Schema
<b>id</b> <i>optional</i>	Unique identifier of the new instance created.	string

## data\_connection\_instance

Data connection status between the local node and a remote target.

Name	Description	Schema
<b>initiator_address</b> <i>optional</i>	Initiating address from the local node.	string (ip-address)
<b>node_id</b> <i>optional</i>	Unique identifier of the local, initiating node.	string
<b>status</b> <i>optional</i>	Status of the data connection.	<a href="#">TransitConnectionStatusEnum</a>
<b>status_l10n</b> <i>optional</i>	Localized message string corresponding to status	string
<b>target_addresses</b> <i>optional</i>	Target address from the remote system.	string (ip-address)

## discovered\_initiator\_instance

An initiator currently connected to the cluster, but not associated with any host.

Name	Description	Schema
<b>name</b> <i>optional</i>	IQN or WWN of the initiator	string
<b>protocol_type</b> <i>optional</i>		<a href="#">InitiatorProtocolTypeEnum</a>
<b>protocol_type_l10n</b> <i>optional</i>	Localized message string corresponding to protocol_type	string

## dns\_instance

Name	Description	Schema
<b>addresses</b> <i>optional</i>	DNS server addresses in IPv4 or IPv6 format.	< string (ip-address) > array

Name	Description	Schema
<b>id</b> <i>optional</i>	Unique identifier of the DNS setting.	string

## dns\_modify

Name	Description	Schema
<b>addresses</b> <i>required</i>	DNS server addresses in IPv4 or IPv6 format.	< string (ip-address) > array

## email\_notify\_destination\_create

Name	Description	Schema
<b>email_address</b> <i>required</i>	Email address to receive notifications.	string
<b>notify_critical</b> <i>optional</i>	Whether to send notifications for critical alerts.	boolean
<b>notify_info</b> <i>optional</i>	Whether send notifications for informational alerts.	boolean
<b>notify_major</b> <i>optional</i>	Whether to send notifications for major alerts.	boolean
<b>notify_minor</b> <i>optional</i>	Whether to send notifications for minor alerts.	boolean

## email\_notify\_destination\_instance

Name	Description	Schema
<b>email_address</b> <i>optional</i>	Email address to receive notifications.	string
<b>id</b> <i>optional</i>	Unique identifier of the email notification destination.	string
<b>notify_critical</b> <i>optional</i>	Whether to send notifications for critical alerts.	boolean

Name	Description	Schema
<b>notify_info</b> <i>optional</i>	Whether to send notifications for informational alerts.	boolean
<b>notify_major</b> <i>optional</i>	Whether to send notifications for major alerts.	boolean
<b>notify_minor</b> <i>optional</i>	Whether to send notifications for minor alerts.	boolean

## email\_notify\_destination\_modify

Name	Description	Schema
<b>email_address</b> <i>optional</i>	Email address to receive notifications.	string
<b>notify_critical</b> <i>optional</i>	Whether to send notifications for critical alerts.	boolean
<b>notify_info</b> <i>optional</i>	Whether to send notifications for informational alerts.	boolean
<b>notify_major</b> <i>optional</i>	Whether to send notifications for major alerts.	boolean
<b>notify_minor</b> <i>optional</i>	Whether to send notifications for minor alerts.	boolean

## error\_instance

Filtering on the fields of this embedded resource is not supported.

Name	Description	Schema
<b>arguments</b> <i>optional</i>	Arguments (if applicable) for the error message.	< string > array
<b>code</b> <i>optional</i>	Hexadecimal error code for an import error.	string
<b>message_l10n</b> <i>optional</i>	Localized error message.	string



## error\_message

Error message for an operation.

Name	Description	Schema
<b>arguments</b> <i>optional</i>	Arguments (if applicable) for the error message.	< string > array
<b>code</b> <i>optional</i>	Hexadecimal error code of the message.	string
<b>message_l10n</b> <i>optional</i>	The message description in the specified locale with arguments substituted.	string
<b>severity</b> <i>optional</i>		<a href="#">MessageSeverityEnum</a>

## error\_response

Error response for an operation. Contains an array of localized messages.

Name	Schema
<b>messages</b> <i>optional</i>	< <a href="#">error_message</a> > array

## esxi\_credentials

Credentials required for re-registering the ESXi hosts in the vCenter. Should be passed only when ESXi host addresses or management network VLAN / prefix / gateway are changed during the reconfiguration of the PowerStore X model appliances.

Type : < [esxi\\_credentials](#) > array

### esxi\_credentials

Name	Description	Schema
<b>node_id</b> <i>optional</i>	Node identifier corresponding to the ESXi host.	string
<b>password</b> <i>optional</i>	ESXi host root password.	string (password)

# eth\_port\_instance

This resource type has queriable associations from ip\_port, appliance, hardware, bond, eth\_port

Name	Description	Schema
<b>appliance</b> <i>optional</i>	This is the embeddable reference form of appliance_id attribute.	<a href="#">appliance_instance</a>
<b>appliance_id</b> <i>optional</i>	The id of the appliance containing the port.	string
<b>bond</b> <i>optional</i>	This is the embeddable reference form of bond_id attribute.	<a href="#">bond_instance</a>
<b>bond_id</b> <i>optional</i>	Unique identifier of the bond containing the port, or null if the port is not in a bond.	string
<b>current_mtu</b> <i>optional</i>	The Maximum transmission unit (MTU) packet size that the Ethernet port can transmit. The fabric MTU can be set to any value in the range [1500-9000]. The network MTU can be set to any value in the range [1280-9000]. The network MTU must be less than or equal to the current fabric MTU. <b>Minimum value : 1280</b> <b>Maximum value : 9000</b>	integer (int32)
<b>current_speed</b> <i>optional</i>		<a href="#">EthPortSpeedEnum</a>
<b>current_speed_110n</b> <i>optional</i>	Localized message string corresponding to current_speed	string
<b>hypervisor_port_id</b> <i>optional</i>	Unique identifier of the virtual switch port associated with the hypervisor port. <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>hypervisor_port_name</b> <i>optional</i>	Hypervisor front-end port name capabilities. This property supports case-insensitive filtering	string
<b>hypervisor_switch_id</b> <i>optional</i>	Unique identifier of the virtual switch associated with the hypervisor port.	string

Name	Description	Schema
<b>hypervisor_vs_witch_name</b> <i>optional</i>	Name of the virtual switch associated with the hypervisor port. This property supports case-insensitive filtering	string
<b>id</b> <i>optional</i>	Ethernet port instance identifier.	string
<b>io_module</b> <i>optional</i>	This is the embeddable reference form of io_module_id attribute.	<a href="#">hardware_instance</a>
<b>io_module_id</b> <i>optional</i>	Unique identifier of the hardware instance of type 'IO_Module' handling the port.	string
<b>ip_ports</b> <i>optional</i>	This is the inverse of the resource type ip_port association.	< <a href="#">ip_port_instance</a> > array
<b>is_hypervisor_managed</b> <i>optional</i>	Indicates whether the port is managed by a hypervisor.	boolean
<b>is_link_up</b> <i>optional</i>	Indicates whether the Ethernet port's link is up. Values are:  <b>true</b> Link is up.  <b>false</b> Link is down.	boolean
<b>mac_address</b> <i>optional</i>	Ethernet port MAC address.	string
<b>name</b> <i>optional</i>	Ethernet port name. This property supports case-insensitive filtering	string
<b>node</b> <i>optional</i>	This is the embeddable reference form of node_id attribute.	<a href="#">hardware_instance</a>
<b>node_id</b> <i>optional</i>	Unique identifier of the hardware instance of type 'Node' containing the port.	string
<b>partner</b> <i>optional</i>	This is the embeddable reference form of partner_id attribute.	<a href="#">eth_port_instance</a>

Name	Description	Schema
<b>partner_id</b> <i>optional</i>	Unique identifier of the partner port instance.	string
<b>port_connector_type</b> <i>optional</i>		<a href="#">FrontEndPortConnectorTypeEnum</a>
<b>port_connector_type_l10n</b> <i>optional</i>	Localized message string corresponding to port_connector_type	string
<b>port_index</b> <i>optional</i>	The index of the Ethernet port in IO module. <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>requested_speed</b> <i>optional</i>		<a href="#">EthPortSpeedEnum</a>
<b>requested_speed_l10n</b> <i>optional</i>	Localized message string corresponding to requested_speed	string
<b>sfp</b> <i>optional</i>	This is the embeddable reference form of sfp_id attribute.	<a href="#">hardware_instance</a>
<b>sfp_id</b> <i>optional</i>	Unique identifier of the hardware instance of type 'SFP' (Small Form-factor Pluggable) inserted into the port.	string
<b>supported_speeds</b> <i>optional</i>	The list of supported transmission speeds for Ethernet port.	< <a href="#">EthPortSpeedEnum</a> > array
<b>supported_speeds_l10n</b> <i>optional</i>	Localized message array corresponding to supported_speeds	< string > array

## eth\_port\_modify

Name	Schema
<b>requested_speed</b> <i>required</i>	<a href="#">EthPortSpeedEnum</a>

## event\_instance

An event indicates that something of interest happened in the system. Normally, an event that requires attention will generate an alert as well. So, although they may be interesting for troubleshooting, it is not necessary to monitor events.

Name	Description	Schema
<b>description_110n</b> <i>optional</i>	Description of this event.	string
<b>event_code</b> <i>optional</i>	Identifies the specific kind of event that has occurred.	string
<b>generated_timestamp</b> <i>optional</i>	Timestamp at which this event occurred.	string (date-time)
<b>id</b> <i>optional</i>	Unique identifier of this occurrence of an event.	string
<b>repair_flow_110n</b> <i>optional</i>	Suggestions for how to resolve any problems that may arise from this event.	string
<b>resource_id</b> <i>optional</i>	Unique identifier of the resource instance which generated this event.	string
<b>resource_name</b> <i>optional</i>	Name of the resource instance which generated this event. This property supports case-insensitive filtering	string
<b>resource_type</b> <i>optional</i>	The type of the object which generated this event.	<a href="#">ResourceTypeEnum</a>
<b>resource_type_110n</b> <i>optional</i>	Localized message string corresponding to resource_type	string
<b>severity</b> <i>optional</i>	The severity of the event.	<a href="#">SeverityEnum</a>
<b>severity_110n</b> <i>optional</i>	Localized message string corresponding to severity	string

Name	Description	Schema
<b>system_impact_l10n</b> <i>optional</i>	Describes the possible effect on the system of this event.	string

## fc\_port\_instance

This resource type has queryable associations from appliance, hardware, fc\_port

Name	Description	Schema
<b>appliance</b> <i>optional</i>	This is the embeddable reference form of appliance_id attribute.	<a href="#">appliance_instance</a>
<b>appliance_id</b> <i>optional</i>	Unique identifier of the appliance containing the port.	string
<b>current_speed</b> <i>optional</i>		<a href="#">FcPortSpeedEnum</a>
<b>current_speed_l10n</b> <i>optional</i>	Localized message string corresponding to current_speed	string
<b>id</b> <i>optional</i>	Unique identifier of the port.	string
<b>io_module</b> <i>optional</i>	This is the embeddable reference form of io_module_id attribute.	<a href="#">hardware_instance</a>
<b>io_module_id</b> <i>optional</i>	Unique identifier of the hardware instance of type 'IO_Module' handling the port.	string
<b>is_link_up</b> <i>optional</i>	Indicates whether the port's link is up. Values are:  <b>true</b> Link is up.  <b>false</b> Link is down.	boolean
<b>name</b> <i>optional</i>	Name of the port. This property supports case-insensitive filtering	string

Name	Description	Schema
<b>node</b> <i>optional</i>	This is the embeddable reference form of node_id attribute.	<a href="#">hardware_instance</a>
<b>node_id</b> <i>optional</i>	Unique identifier of the hardware instance of type 'Node' containing the port.	string
<b>partner</b> <i>optional</i>	This is the embeddable reference form of partner_id attribute.	<a href="#">fc_port_instance</a>
<b>partner_id</b> <i>optional</i>	Unique identifier of the partner port.	string
<b>port_connector_type</b> <i>optional</i>		<a href="#">FrontEndPortConnectionTypeEnum</a>
<b>port_connector_type_l10n</b> <i>optional</i>	Localized message string corresponding to port_connector_type	string
<b>port_index</b> <i>optional</i>	Index of the port in the IO module. <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>requested_speed</b> <i>optional</i>		<a href="#">FcPortSpeedEnum</a>
<b>requested_speed_l10n</b> <i>optional</i>	Localized message string corresponding to requested_speed	string
<b>sfp</b> <i>optional</i>	This is the embeddable reference form of sfp_id attribute.	<a href="#">hardware_instance</a>
<b>sfp_id</b> <i>optional</i>	Unique identifier of the hardware instance of type 'SFP' (Small Form-factor Pluggable) inserted into the port.	string
<b>supported_speeds</b> <i>optional</i>	List of supported transmission speeds for the port.	< <a href="#">FcPortSpeedEnum</a> > array

Name	Description	Schema
<b>supported_speeds</b> <i>optional</i>	Localized message array corresponding to supported_speeds	< string > array
<b>wwn</b> <i>optional</i>	World Wide Name (WWN) of the port.	string

## fc\_port\_modify

Name	Schema
<b>requested_speed</b> <i>required</i>	<a href="#">FcPortSpeedEnum</a>

## file\_dns\_create

Name	Description	Schema
<b>domain</b> <i>required</i>	Name of the DNS domain, where the NAS Server does host names lookup when an FQDN is not specified in the request. <b>Length : 1 - 255</b>	string
<b>ip_addresses</b> <i>required</i>	The list of DNS server IP addresses. The addresses may be IPv4 or IPv6.	< string (ip-address) > array
<b>nas_server_id</b> <i>required</i>	Unique identifier of the associated NAS Server instance that uses this DNS object. Only one DNS object per NAS Server is supported.	string
<b>transport</b> <i>optional</i>		<a href="#">FileDNSTransportEnum</a>

## file\_dns\_instance

This resource type has queryable association from nas\_server

Name	Description	Schema
<b>domain</b> <i>optional</i>	Name of the DNS domain, where the NAS Server does host names lookup when an FQDN is not specified in the request.	string



Name	Description	Schema
<b>id</b> <i>optional</i>	Unique identifier of the DNS server.	string
<b>ip_addresses</b> <i>optional</i>	The list of DNS server IP addresses. The addresses may be IPv4 or IPv6.	< string (ip-address) > array
<b>nas_server</b> <i>optional</i>	This is the embeddable reference form of nas_server_id attribute.	<a href="#">nas_server_instance</a>
<b>nas_server_id</b> <i>optional</i>	Unique identifier of the associated NAS Server instance that uses this DNS object. Only one DNS object per NAS Server is supported.	string
<b>transport</b> <i>optional</i>		<a href="#">FileDNSTransportEnum</a>
<b>transport_l10n</b> <i>optional</i>	Localized message string corresponding to transport	string

## file\_dns\_modify

Name	Description	Schema
<b>add_ip_addresses</b> <i>optional</i>	IP addresses to add to the current list. The addresses may be IPv4 or IPv6. Error occurs if an IP address already exists. Cannot be combined with ip_addresses.	< string (ip-address) > array
<b>domain</b> <i>optional</i>	Name of the DNS domain, where the NAS Server does host names lookup when an FQDN is not specified in the request. <b>Length : 1 - 255</b>	string
<b>ip_addresses</b> <i>optional</i>	A new list of DNS server IP addresses to replace the existing list. The addresses may be IPv4 or IPv6.	< string (ip-address) > array
<b>remove_ip_addresses</b> <i>optional</i>	IP addresses to remove from the current list. The addresses may be IPv4 or IPv6. Error occurs if IP address is not present. Cannot be combined with ip_addresses.	< string (ip-address) > array
<b>transport</b> <i>optional</i>		<a href="#">FileDNSTransportEnum</a>

# file\_ftp\_create

Name	Description	Schema
<b>audit_dir</b> <i>optional</i>	(Applies when the value of is_audit_enabled is true.) Directory of FTP/SFTP audit files. Logs are saved in '/' directory (default) or in a mounted file system (Absolute path of the File system directory which should already exist).	string
<b>audit_max_size</b> <i>optional</i>	(Applies when the value of is_audit_enabled is true.) Maximum size of all (current plus archived) FTP/SFTP audit files, in bytes. There is a maximum of 5 audit files, 1 current audit file (ftp.log) and 4 archived audit files. The maximum value for this setting is 5GB (each file of 1GB) if the audit directory belongs to a user file system of the NAS server. If the audit directory is '/', the maximum value is 5MB (each file of 1MB). The minimum value is 40kB (each file of 8KB) on any file system. <b>Minimum value : 40960</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>default_home_dir</b> <i>optional</i>	(Applies when the value of is_homedir_limit_enabled is false.) Default directory of FTP and SFTP clients who have a home directory that is not defined or accessible.	string
<b>groups</b> <i>optional</i>	Allowed or denied user groups, depending on the value of the is_allowed_groups attribute. - If allowed groups exist, only users who are members of these groups and no others can connect to the NAS server through FTP or SFTP. - If denied groups exist, all users who are members of those groups always have access denied to the NAS server through FTP or SFTP. - If the list is empty, there is no restriction to the NAS server access through FTP or SFTP based on the user group.	< string > array
<b>hosts</b> <i>optional</i>	Allowed or denied hosts, depending on the value of the is_allowed_hosts attribute. A host is defined using its IP address. Subnets using CIDR notation are also supported. - If allowed hosts exist, only those hosts and no others can connect to the NAS server through FTP or SFTP. - If denied hosts exist, they always have access denied to the NAS server through FTP or SFTP. - If the list is empty, there is no restriction to NAS server access through FTP or SFTP based on the host IP address. - The addresses may be IPv4 or IPv6.	< string (ip-address) > array

Name	Description	Schema
<b>is_allowed_groups</b> <i>optional</i>	Indicates whether the groups attribute contains allowed or denied user groups. Values are: - true - groups contains allowed user groups. - false - groups contains denied user groups. <b>Default : true</b>	boolean
<b>is_allowed_hosts</b> <i>optional</i>	Indicates whether the hosts attribute contains allowed or denied hosts. Values are: true - hosts contains allowed hosts. false - hosts contains denied hosts. <b>Default : true</b>	boolean
<b>is_allowed_users</b> <i>optional</i>	Indicates whether the users attribute contains allowed or denied users. Values are: - true - users contains allowed users. - false - users contains denied users. <b>Default : true</b>	boolean
<b>is_anonymous_authentication_enabled</b> <i>optional</i>	Indicates whether FTP clients can be authenticated anonymously. Values are: - true - Anonymous user name is accepted. - false - Anonymous user name is not accepted. <b>Default : false</b>	boolean
<b>is_audit_enabled</b> <i>optional</i>	Indicates whether the activity of FTP and SFTP clients is tracked in audit files. Values are: - true - FTP/SFTP activity is tracked. - false - FTP/SFTP activity is not tracked. <b>Default : false</b>	boolean
<b>is_ftp_enabled</b> <i>optional</i>	Indicates whether the FTP server is enabled on the NAS server specified in the nasServer attribute. Values are: - true - FTP server is enabled on the specified NAS server. - false - FTP server is disabled on the specified NAS server. <b>Default : false</b>	boolean
<b>is_homedir_limit_enabled</b> <i>optional</i>	Indicates whether an FTP or SFTP user access is limited to the home directory of the user. Values are: - true - An FTP or SFTP user can access only the home directory of the user. - false - FTP and SFTP users can access any NAS server directory, according to NAS server permissions. <b>Default : true</b>	boolean
<b>is_sftp_enabled</b> <i>optional</i>	Indicates whether the SFTP server is enabled on the NAS server specified in the nasServer attribute. Values are: - true - SFTP server is enabled on the specified NAS server. - false - SFTP server is disabled on the specified NAS server. <b>Default : false</b>	boolean

Name	Description	Schema
<b>is_smb_authentication_enabled</b> <i>optional</i>	Indicates whether FTP and SFTP clients can be authenticated using an SMB user name. These user names are defined in a Windows domain controller, and their formats are user@domain or domain\user. Values are: - true - SMB user names are accepted for authentication. - false - SMB user names are not accepted for authentication. <b>Default</b> : true	boolean
<b>is_unix_authentication_enabled</b> <i>optional</i>	Indicates whether FTP and SFTP clients can be authenticated using a Unix user name. Unix user names are defined in LDAP, NIS servers or in local passwd file. Values are: - true - Unix user names are accepted for authentication. - false - Unix user names are not accepted for authentication. <b>Default</b> : true	boolean
<b>message_of_the_day</b> <i>optional</i>	Message of the day displayed on the console of FTP clients after their authentication. The length of this message is limited to 511 bytes of UTF-8 characters, and the length of each line is limited to 80 bytes.	string
<b>nas_server_id</b> <i>required</i>	Unique identifier of the NAS server that is configured with the FTP server.	string
<b>users</b> <i>optional</i>	Allowed or denied users, depending on the value of the is_allowed_user attribute. - If allowed users exist, only those users and no others can connect to the NAS server through FTP or SFTP. - If denied users exist, they have always access denied to the NAS server through FTP or SFTP. - If the list is empty, there is no restriction to the NAS server access through FTP or SFTP based on the user name.	< string > array
<b>welcome_message</b> <i>optional</i>	Welcome message displayed on the console of FTP and SFTP clients before their authentication. The length of this message is limited to 511 bytes of UTF-8 characters, and the length of each line is limited to 80 bytes.	string

## file\_ftp\_instance

This resource type has queriable association from nas\_server

Name	Description	Schema
<b>audit_dir</b> <i>optional</i>	(Applies when the value of is_audit_enabled is true.) Directory of FTP/SFTP audit files. Logs are saved in '/' directory (default) or in a mounted file system (Absolute path of the File system directory which should already exist).	string
<b>audit_max_size</b> <i>optional</i>	(Applies when the value of is_audit_enabled is true.) Maximum size of all (current plus archived) FTP/SFTP audit files, in bytes. There is a maximum of 5 audit files, 1 current audit file (ftp.log) and 4 archived audit files. The maximum value for this setting is 5GB (each file of 1GB) if the audit directory belongs to a user file system of the NAS server. If the audit directory is '/', the maximum value is 5MB (each file of 1MB). The minimum value is 40kB (each file of 8KB) on any file system. <b>Minimum value : 40960</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>default_home_dir</b> <i>optional</i>	(Applies when the value of is_homedir_limit_enabled is false.) Default directory of FTP and SFTP clients that have a home directory which is not defined or accessible.	string
<b>groups</b> <i>optional</i>	Allowed or denied user groups, depending on the value of the is_allowed_groups attribute. - If allowed groups exist, only users who are members of these groups and no others can connect to the NAS server through FTP or SFTP. - If denied groups exist, all users who are members of those groups always have access denied to the NAS server through FTP or SFTP. - If the list is empty, there is no restriction to the NAS server access through FTP or SFTP based on the user group.	< string > array
<b>hosts</b> <i>optional</i>	Allowed or denied hosts, depending on the value of the is_allowed_hosts attribute. A host is defined using its IP address. Subnets using CIDR notation are also supported. - If allowed hosts exist, only those hosts and no others can connect to the NAS server through FTP or SFTP. - If denied hosts exist, they always have access denied to the NAS server through FTP or SFTP. - If the list is empty, there is no restriction to NAS server access through FTP or SFTP based on the host IP address. - The addresses may be IPv4 or IPv6.	< string (ip-address) > array
<b>id</b> <i>optional</i>	Unique identifier of the FTP server.	string

Name	Description	Schema
<b>is_allowed_groups</b> <i>optional</i>	Indicates whether the groups attribute contains allowed or denied user groups. Values are: - true - groups contains allowed user groups. - false - groups contains denied user groups. <b>Default : true</b>	boolean
<b>is_allowed_hosts</b> <i>optional</i>	Indicates whether the hosts attribute contains allowed or denied hosts. Values are: true - hosts contains allowed hosts. false - hosts contains denied hosts. <b>Default : true</b>	boolean
<b>is_allowed_users</b> <i>optional</i>	Indicates whether the users attribute contains allowed or denied users. Values are: - true - users contains allowed users. - false - users contains denied users. <b>Default : true</b>	boolean
<b>is_anonymous_authentication_enabled</b> <i>optional</i>	Indicates whether FTP clients can be authenticated anonymously. Values are: - true - Anonymous user name is accepted. - false - Anonymous user name is not accepted. <b>Default : true</b>	boolean
<b>is_audit_enabled</b> <i>optional</i>	Indicates whether the activity of FTP and SFTP clients is tracked in audit files. Values are: - true - FTP/SFTP activity is tracked. - false - FTP/SFTP activity is not tracked. <b>Default : false</b>	boolean
<b>is_ftp_enabled</b> <i>optional</i>	Indicates whether the FTP server is enabled on the NAS server. Values are: - true - FTP server is enabled on the specified NAS server. - false - FTP server is disabled on the specified NAS server.	boolean
<b>is_homedir_limit_enabled</b> <i>optional</i>	Indicates whether an FTP or SFTP user access is limited to his home directory. Values are: - true - An FTP or SFTP user can access his or her own home directory only. - false - FTP and SFTP users can access any NAS server directory, according to NAS server permissions.	boolean
<b>is_sftp_enabled</b> <i>optional</i>	Indicates whether the SFTP server is enabled on the NAS server. Values are: - true - SFTP server is enabled on the specified NAS server. - false - SFTP server is disabled on the specified NAS server. <b>Default : false</b>	boolean

Name	Description	Schema
<b>is_smb_authentication_enabled</b> <i>optional</i>	Indicates whether FTP and SFTP clients can be authenticated using an SMB user name. These user names are defined in a Windows domain controller, and their formats are user@domain or domain\user. Values are: - true - SMB user names are accepted for authentication. - false - SMB user names are not accepted for authentication. <b>Default</b> : true	boolean
<b>is_unix_authentication_enabled</b> <i>optional</i>	Indicates whether FTP and SFTP clients can be authenticated using a Unix user name. Unix user names are defined in LDAP, NIS servers or in local passwd file. Values are: - true - Unix user names are accepted for authentication. - false - Unix user names are not accepted for authentication. <b>Default</b> : true	boolean
<b>message_of_the_day</b> <i>optional</i>	Message of the day displayed on the console of FTP clients after their authentication. The length of this message is limited to 511 bytes of UTF-8 characters, and the length of each line is limited to 80 bytes.	string
<b>nas_server</b> <i>optional</i>	This is the embeddable reference form of nas_server_id attribute.	<a href="#">nas_server_instance</a>
<b>nas_server_id</b> <i>optional</i>	Unique identifier of the NAS server that is configured with the FTP server.	string
<b>users</b> <i>optional</i>	Allowed or denied users, depending on the value of the is_allowed_users attribute. - If allowed users exist, only those users and no others can connect to the NAS server through FTP or SFTP. - If denied users exist, they have always access denied to the NAS server through FTP or SFTP. - If the list is empty, there is no restriction to the NAS server access through FTP or SFTP based on the user name.	< string > array
<b>welcome_message</b> <i>optional</i>	Welcome message displayed on the console of FTP and SFTP clients before their authentication. The length of this message is limited to 511 bytes of UTF-8 characters, and the length of each line is limited to 80 bytes.	string

## file\_ftp\_modify

Name	Description	Schema
<b>add_groups</b> <i>optional</i>	Groups to add to the current groups. Error occurs if the group already exists. Cannot be combined with groups.	< string > array
<b>add_hosts</b> <i>optional</i>	Host IP addresses to add to the current hosts. The addresses may be IPv4 or IPv6. Error occurs if the IP address already exists. Cannot be combined with hosts.	< string (ip-address) > array
<b>add_users</b> <i>optional</i>	Users to add to the current users. Error occurs if the user already exist. Cannot be combined with users.	< string > array
<b>audit_dir</b> <i>optional</i>	(Applies when the value of is_audit_enabled is true.) Directory of FTP/SFTP audit files. Logs are saved in '/' directory (default) or in a mounted file system (Absolute path of the File system directory which should already exist).	string
<b>audit_max_size</b> <i>optional</i>	(Applies when the value of is_audit_enabled is true.) Maximum size of all (current plus archived) FTP/SFTP audit files, in bytes. There is a maximum of 5 audit files, 1 current audit file (ftp.log) and 4 archived audit files. The maximum value for this setting is 5GB (each file of 1GB) if the audit directory belongs to a user file system of the NAS server. If the audit directory is '/', the maximum value is 5MB (each file of 1MB). The minimum value is 40kB (each file of 8KB) on any file system. <b>Minimum value : 40960</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>default_home_dir</b> <i>optional</i>	(Applies when the value of is_homedir_limit_enabled is false.) Default directory of FTP and SFTP clients that have a home directory which is not defined or accessible.	string
<b>groups</b> <i>optional</i>	Allowed or denied user groups, depending on the value of the is_allowed_groups attribute. - If allowed groups exist, only users who are members of these groups and no others can connect to the NAS server through FTP or SFTP. - If denied groups exist, all users who are members of those groups always have access denied to the NAS server through FTP or SFTP. - If the list is empty, there is no restriction to the NAS server access through FTP or SFTP based on the user group.	< string > array



Name	Description	Schema
<b>hosts</b> <i>optional</i>	Allowed or denied hosts, depending on the value of the <code>is_allowed_hosts</code> attribute. A host is defined using its IP address. Subnets using CIDR notation are also supported. - If allowed hosts exist, only those hosts and no others can connect to the NAS server through FTP or SFTP. - If denied hosts exist, they always have access denied to the NAS server through FTP or SFTP. - If the list is empty, there is no restriction to NAS server access through FTP or SFTP based on the host IP address. - The addresses may be IPv4 or IPv6.	< string (ip-address) > array
<b>is_allowed_groups</b> <i>optional</i>	Indicates whether the <code>groups</code> attribute contains allowed or denied user groups. Values are: - true - groups contains allowed user groups. - false - groups contains denied user groups. <b>Default</b> : true	boolean
<b>is_allowed_hosts</b> <i>optional</i>	Indicates whether the <code>hosts</code> attribute contains allowed or denied hosts. Values are: true - hosts contains allowed hosts. false - hosts contains denied hosts. <b>Default</b> : true	boolean
<b>is_allowed_users</b> <i>optional</i>	Indicates whether the <code>users</code> attribute contains allowed or denied users. Values are: - true - users contains allowed users. - false - users contains denied users. <b>Default</b> : true	boolean
<b>is_anonymous_authentication_enabled</b> <i>optional</i>	Indicates whether FTP clients can be authenticated anonymously. Values are: - true - Anonymous user name is accepted. - false - Anonymous user name is not accepted. <b>Default</b> : true	boolean
<b>is_audit_enabled</b> <i>optional</i>	Indicates whether the activity of FTP and SFTP clients is tracked in audit files. Values are: - true - FTP/SFTP activity is tracked. - false - FTP/SFTP activity is not tracked. <b>Default</b> : false	boolean
<b>is_ftp_enabled</b> <i>optional</i>	Indicates whether the FTP server is enabled on the NAS server specified in the <code>nasServer</code> attribute. Values are: - true - FTP server is enabled on the specified NAS server. - false - FTP server is disabled on the specified NAS server.	boolean

Name	Description	Schema
<b>is_homedir_limit_enabled</b> <i>optional</i>	Indicates whether an FTP or SFTP user access is limited to the home directory of the user. Values are: - true - An FTP or SFTP user can access only the home directory of the user. - false - FTP and SFTP users can access any NAS server directory, according to NAS server permissions.	boolean
<b>is_sftp_enabled</b> <i>optional</i>	Indicates whether the SFTP server is enabled on the NAS server specified in the nasServer attribute. Values are: - true - SFTP server is enabled on the specified NAS server. - false - SFTP server is disabled on the specified NAS server. <b>Default : false</b>	boolean
<b>is_smb_authentication_enabled</b> <i>optional</i>	Indicates whether FTP and SFTP clients can be authenticated using an SMB user name. These user names are defined in a Windows domain controller, and their formats are user@domain or domain\user. Values are: - true - SMB user names are accepted for authentication. - false - SMB user names are not accepted for authentication. <b>Default : true</b>	boolean
<b>is_unix_authentication_enabled</b> <i>optional</i>	Indicates whether FTP and SFTP clients can be authenticated using a Unix user name. Unix user names are defined in LDAP, NIS servers or in local passwd file. Values are: - true - Unix user names are accepted for authentication. - false - Unix user names are not accepted for authentication. <b>Default : true</b>	boolean
<b>message_of_the_day</b> <i>optional</i>	Message of the day displayed on the console of FTP clients after their authentication. The length of this message is limited to 511 bytes of UTF-8 characters, and the length of each line is limited to 80 bytes.	string
<b>remove_groups</b> <i>optional</i>	Groups to remove from the current groups. Error occurs if the group is not present. Cannot be combined with groups.	< string > array
<b>remove_hosts</b> <i>optional</i>	Host IP addresses to remove from the current hosts. The addresses may be IPv4 or IPv6. Error occurs if the IP address is not present. Cannot be combined with hosts.	< string (ip-address) > array
<b>remove_users</b> <i>optional</i>	Users to remove from the current users. Error occurs if the user is not present. Cannot be combined with users.	< string > array

Name	Description	Schema
<b>users</b> <i>optional</i>	Allowed or denied users, depending on the value of the <code>is_allowed_users</code> attribute. - If allowed users exist, only those users and no others can connect to the NAS server through FTP or SFTP. - If denied users exist, they always have access denied to the NAS server through FTP or SFTP. - If the list is empty, there is no restriction to the NAS server access through FTP or SFTP based on the user name.	< string > array
<b>welcome_message</b> <i>optional</i>	Welcome message displayed on the console of FTP and SFTP clients before their authentication. The length of this message is limited to 511 bytes of UTF-8 characters, and the length of each line is limited to 80 bytes.	string

## file\_interface\_create

Attributes for the create operation.

Name	Description	Schema
<b>gateway</b> <i>optional</i>	Gateway address for the network interface. IPv4 and IPv6 are supported. <b>Length : 1 - 45</b>	string (ip-address)
<b>ip_address</b> <i>required</i>	IP address of the network interface. IPv4 and IPv6 are supported. <b>Length : 1 - 45</b>	string (ip-address)
<b>is_disabled</b> <i>optional</i>	Indicates whether the network interface is disabled. <b>Default : false</b>	boolean
<b>nas_server_id</b> <i>required</i>	Unique identifier of the NAS server to which the network interface belongs, as defined by the <code>nas_server</code> resource type.	string
<b>prefix_length</b> <i>required</i>	Prefix length for the interface. IPv4 and IPv6 are supported. <b>Minimum value : 1</b> <b>Maximum value : 128</b>	integer (int32)
<b>role</b> <i>optional</i>		<a href="#">FileInterfaceRoleEnum</a>

Name	Description	Schema
<b>vlan_id</b> <i>optional</i>	Virtual Local Area Network (VLAN) identifier for the interface. The interface uses the identifier to accept packets that have matching VLAN tags. <b>Default :</b> 0 <b>Minimum value :</b> 0 <b>Maximum value :</b> 4094	integer (int32)

## file\_interface\_instance

This resource type has queryable associations from `nas_server`, `file_interface_route`

Name	Description	Schema
<b>file_interface_routes</b> <i>optional</i>	This is the inverse of the resource type <code>file_interface_route</code> association.	< <a href="#">file_interface_route_instance</a> > array
<b>gateway</b> <i>optional</i>	Gateway address for the network interface. IPv4 and IPv6 are supported.	string (ip-address)
<b>id</b> <i>optional</i>	Unique identifier of the file interface.	string
<b>ip_address</b> <i>optional</i>	IP address of the network interface. IPv4 and IPv6 are supported.	string (ip-address)
<b>is_disabled</b> <i>optional</i>	Indicates whether the network interface is disabled. <b>Default :</b> false	boolean
<b>name</b> <i>optional</i>	Name of the network interface. This property supports case-insensitive filtering	string
<b>nas_server</b> <i>optional</i>	This is the embeddable reference form of <code>nas_server_id</code> attribute.	<a href="#">nas_server_instance</a>
<b>nas_server_id</b> <i>optional</i>	Unique identifier of the NAS server.	string
<b>prefix_length</b> <i>optional</i>	Prefix length for the interface. IPv4 and IPv6 are supported. <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)

Name	Description	Schema
<b>role</b> <i>optional</i>		<a href="#">FileInterfaceRoleEnum</a>
<b>role_l10n</b> <i>optional</i>	Localized message string corresponding to role	string
<b>vlan_id</b> <i>optional</i>	Virtual Local Area Network (VLAN) identifier for the interface. The interface uses the identifier to accept packets that have matching VLAN tags. <b>Default</b> : 0 <b>Minimum value</b> : 0 <b>Maximum value</b> : 4094	integer (int32)

## file\_interface\_modify

Attributes for the modify operation.

Name	Description	Schema
<b>gateway</b> <i>optional</i>	Gateway address for the network interface. IPv4 and IPv6 are supported. <b>Length</b> : 0 - 45	string (ip-address)
<b>ip_address</b> <i>optional</i>	IP address of the network interface. IPv4 and IPv6 are supported. <b>Length</b> : 1 - 45	string (ip-address)
<b>is_disabled</b> <i>optional</i>	Indicates whether the network interface is disabled. <b>Default</b> : false	boolean
<b>prefix_length</b> <i>optional</i>	Prefix length for the interface. IPv4 and IPv6 are supported. <b>Minimum value</b> : 1 <b>Maximum value</b> : 128	integer (int32)
<b>vlan_id</b> <i>optional</i>	Virtual Local Area Network (VLAN) identifier for the interface. The interface uses the identifier to accept packets that have matching VLAN tags. <b>Default</b> : 0 <b>Minimum value</b> : 0 <b>Maximum value</b> : 4094	integer (int32)

## file\_interface\_route\_create

Name	Description	Schema
<b>destination</b> <i>optional</i>	IPv4 or IPv6 address of the target network node based on the specific route type. Values are: <ul style="list-style-type: none"><li>• For a default route, there is no value because the system will use the specified gateway IP address.</li><li>• For a host route, the value is the host IP address.</li><li>• For a subnet route, the value is a subnet IP address.</li></ul>	string (ip-address)
<b>file_interface_id</b> <i>required</i>	Unique identifier of the associated file interface.	string
<b>gateway</b> <i>optional</i>	IP address of the gateway associated with the route. <b>Length : 1 - 45</b>	string (ip-address)
<b>prefix_length</b> <i>optional</i>	IPv4 or IPv6 prefix length for the route. <b>Minimum value : 1</b> <b>Maximum value : 128</b>	integer (int32)

## file\_interface\_route\_instance

This resource type has queriable association from file\_interface

Name	Description	Schema
<b>destination</b> <i>optional</i>	IPv4 or IPv6 address of the target network node based on the specific route type. Values are: <ul style="list-style-type: none"><li>• For a default route, there is no value because the system will use the specified gateway IP address.</li><li>• For a host route, the value is the host IP address.</li><li>• For a subnet route, the value is a subnet IP address.</li></ul>	string (ip-address)
<b>file_interface</b> <i>optional</i>	This is the embeddable reference form of file_interface_id attribute.	<a href="#">file_interface_instance</a>
<b>file_interface_id</b> <i>optional</i>	Unique identifier of the associated file interface.	string

Name	Description	Schema
<b>gateway</b> <i>optional</i>	IP address of the gateway associated with the route.	string (ip-address)
<b>id</b> <i>optional</i> <i>read-only</i>	Unique identifier of the file interface route.	string
<b>operational_status</b> <i>optional</i>		<a href="#">FileInterfaceRouteOperationalStatusEnum</a>
<b>operational_status_message</b> <i>optional</i>	Localized message string corresponding to operational_status	string
<b>prefix_length</b> <i>optional</i>	IPv4 or IPv6 prefix length for the route. <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)

## file\_interface\_route\_modify

Name	Description	Schema
<b>destination</b> <i>optional</i>	IPv4 or IPv6 address of the target network node based on the specific route type. Values are: <ul style="list-style-type: none"> <li>• For a default route, there is no value because the system will use the specified gateway IP address.</li> <li>• For a host route, the value is the host IP address.</li> <li>• For a subnet route, the value is a subnet IP address.</li> </ul>	string (ip-address)
<b>gateway</b> <i>optional</i>	IP address of the gateway associated with the route. <b>Length : 0 - 45</b>	string (ip-address)
<b>prefix_length</b> <i>optional</i>	IPv4 or IPv6 prefix length for the route. <b>Minimum value : 1</b> <b>Maximum value : 128</b>	integer (int32)

## file\_kerberos\_create

Name	Description	Schema
<b>kdc_addresses</b> <i>required</i>	Fully Qualified domain names of the Kerberos Key Distribution Center (KDC) servers. IPv4 and IPv6 addresses are not supported.	< string > array
<b>nas_server_id</b> <i>required</i>	Unique identifier of the associated NAS Server instance that uses this Kerberos object. Only one Kerberos object per NAS Server is supported.	string
<b>port_number</b> <i>optional</i>	KDC servers TCP port. <b>Default : 88</b> <b>Minimum value : 0</b> <b>Maximum value : 65535</b>	integer (int32)
<b>realm</b> <i>required</i>	Realm name of the Kerberos Service. <b>Length : 1 - 255</b>	string

## file\_kerberos\_instance

This resource type has queriable association from nas\_server

Name	Description	Schema
<b>id</b> <i>optional</i>	Unique identifier of the Kerberos service settings instance.	string
<b>kdc_addresses</b> <i>optional</i>	Fully Qualified domain names of the Kerberos Key Distribution Center (KDC) servers. IPv4 and IPv6 addresses are not supported.	< string > array
<b>nas_server</b> <i>optional</i>	This is the embeddable reference form of nas_server_id attribute.	<a href="#">nas_server_instance</a>
<b>nas_server_id</b> <i>optional</i>	Unique identifier of the associated NAS Server instance that uses this Kerberos object. Only one Kerberos object per NAS Server is supported.	string
<b>port_number</b> <i>optional</i>	KDC servers TCP port. <b>Default : 88</b> <b>Minimum value : 0</b> <b>Maximum value : 65535</b>	integer (int32)
<b>realm</b> <i>optional</i>	Realm name of the Kerberos Service.	string



## file\_kerberos\_keytab\_file

Name	Description	Schema
<b>data</b> <i>optional</i>	The current keytab file for secure NFS service.	string (binary)

## file\_kerberos\_modify

Name	Description	Schema
<b>add_kdc_addresses</b> <i>optional</i>	Fully Qualified domain names of the Kerberos Key Distribution Center (KDC) servers to add to the current list. Error occurs if name already exists. Cannot be combined with kdc_addresses. IPv4 and IPv6 addresses are not supported.	< string > array
<b>kdc_addresses</b> <i>optional</i>	Fully Qualified domain names of the Kerberos Key Distribution Center (KDC) servers. IPv4 and IPv6 addresses are not supported.	< string > array
<b>port_number</b> <i>optional</i>	KDC servers TCP port. <b>Default : 88</b> <b>Minimum value : 0</b> <b>Maximum value : 65535</b>	integer (int32)
<b>realm</b> <i>optional</i>	Realm name of the Kerberos Service. <b>Length : 1 - 255</b>	string
<b>remove_kdc_addresses</b> <i>optional</i>	Fully Qualified domain names of the Kerberos Key Distribution Center (KDC) servers to remove from the current list. Error occurs if name is not in the existing list. Cannot be combined with kdc_addresses. IPv4 and IPv6 addresses are not supported.	< string > array

## file\_ldap\_create

Arguments for the create operation.

Name	Description	Schema
<b>addresses</b> <i>optional</i>	The list of LDAP server IP addresses. The addresses may be IPv4 or IPv6.	< string (ip-address) > array

Name	Description	Schema
<b>authentication_type</b> <i>required</i>		<a href="#">FileLDAPAuthenticationTypeEnum</a>
<b>base_DN</b> <i>required</i>	Name of the LDAP base DN. Base Distinguished Name (BDN) of the root of the LDAP directory tree. The appliance uses the DN to bind to the LDAP service and locate in the LDAP directory tree to begin a search for information. The base DN can be expressed as a fully-qualified domain name or in X.509 format by using the attribute dc=. For example, if the fully-qualified domain name is mycompany.com, the base DN is expressed as dc=mycompany,dc=com. <b>Length : 3 - 255</b>	string
<b>bind_DN</b> <i>optional</i>	Bind Distinguished Name (DN) to be used when binding. <b>Length : 0 - 1023</b>	string
<b>bind_password</b> <i>optional</i>	The associated password to be used when binding to the server. <b>Length : 0 - 1023</b>	string (password)
<b>is_smb_account_used</b> <i>optional</i>	Indicates whether SMB authentication is used to authenticate to the LDAP server. Values are:  <b>true</b> Indicates that the SMB settings are used for Kerberos authentication.  <b>false</b> Indicates that Kerberos uses its own settings.	boolean
<b>is_verify_server_certificate</b> <i>optional</i>	Indicates whether Certification Authority certificate is used to verify the LDAP server certificate for secure SSL connections. Values are:  <b>true</b> verifies LDAP server's certificate.  <b>false</b> doesn't verify LDAP server's certificate.	boolean
<b>nas_server_id</b> <i>required</i>	Unique identifier of the associated NAS Server instance that will use this LDAP object. Only one LDAP object per NAS Server is supported.	string

Name	Description	Schema
<b>password</b> <i>optional</i>	The associated password for Kerberos authentication. <b>Length</b> : 0 - 1023	string (password)
<b>port_number</b> <i>optional</i>	The TCP/IP port used by the NAS Server to connect to the LDAP servers. The default port number for LDAP is 389 and LDAPS is 636. <b>Minimum value</b> : 0 <b>Maximum value</b> : 65536	integer (int32)
<b>principal</b> <i>optional</i>	Specifies the principal name for Kerberos authentication. <b>Length</b> : 0 - 1023	string
<b>profile_DN</b> <i>optional</i>	For an iPlanet LDAP server, specifies the DN of the entry with the configuration profile. <b>Length</b> : 0 - 255	string
<b>protocol</b> <i>optional</i>		<a href="#">FileLDAPProtocolEnum</a>
<b>realm</b> <i>optional</i>	Specifies the realm name for Kerberos authentication. <b>Length</b> : 0 - 255	string

## file\_ldap\_instance

This resource type has queriable association from nas\_server

Name	Description	Schema
<b>addresses</b> <i>optional</i>	The list of LDAP server IP addresses. The addresses may be IPv4 or IPv6.	< string (ip-address) > array
<b>authentication_type</b> <i>optional</i>		<a href="#">FileLDAPAuthenticationTypeEnum</a>
<b>authentication_type_l10n</b> <i>optional</i>	Localized message string corresponding to authentication_type	string

Name	Description	Schema
<b>base_DN</b> <i>optional</i>	Name of the LDAP base DN. Base Distinguished Name (BDN) of the root of the LDAP directory tree. The appliance uses the DN to bind to the LDAP service and locate in the LDAP directory tree to begin a search for information. The base DN can be expressed as a fully-qualified domain name or in X.509 format by using the attribute dc=. For example, if the fully-qualified domain name is mycompany.com, the base DN is expressed as dc=mycompany,dc=com.	string
<b>bind_DN</b> <i>optional</i>	Bind Distinguished Name (DN) to be used when binding.	string
<b>id</b> <i>optional</i> <i>read-only</i>	Unique identifier of the LDAP service object.	string
<b>is_certificate_uploaded</b> <i>optional</i>	Indicates whether an LDAP certificate file has been uploaded. <b>Default : false</b>	boolean
<b>is_config_file_uploaded</b> <i>optional</i>	Indicates whether an LDAP configuration file has been uploaded. <b>Default : false</b>	boolean
<b>is_smb_account_used</b> <i>optional</i>	Indicates whether SMB authentication is used to authenticate to the LDAP server. Values are: <b>true</b> Indicates that the SMB settings are used for Kerberos authentication. <b>false</b> Indicates that Kerberos uses its own settings.	boolean
<b>is_verify_server_certificate</b> <i>optional</i>	Indicates whether a Certification Authority certificate is used to verify the LDAP server certificate for secure SSL connections. Values are: <b>true</b> verifies LDAP server's certificate. <b>false</b> doesn't verify LDAP server's certificate.	boolean

Name	Description	Schema
<b>nas_server</b> <i>optional</i>	This is the embeddable reference form of nas_server_id attribute.	<a href="#">nas_server_instance</a>
<b>nas_server_id</b> <i>optional</i>	Unique identifier of the associated NAS Server instance that uses this LDAP object. Only one LDAP object per NAS Server is supported.	string
<b>port_number</b> <i>optional</i>	The TCP/IP port used by the NAS Server to connect to the LDAP servers. The default port number for LDAP is 389 and LDAPS is 636. <b>Minimum value :</b> 0 <b>Maximum value :</b> 65535	integer (int32)
<b>principal</b> <i>optional</i>	Specifies the principal name for Kerberos authentication.	string
<b>profile_DN</b> <i>optional</i>	For an iPlanet LDAP server, specifies the DN of the entry with the configuration profile.	string
<b>protocol</b> <i>optional</i>		<a href="#">FileLDAPProtocolEnum</a>
<b>protocol_l10n</b> <i>optional</i>	Localized message string corresponding to protocol	string
<b>realm</b> <i>optional</i>	Specifies the realm name for Kerberos authentication.	string
<b>schema_type</b> <i>optional</i>		<a href="#">FileLDAPSchemaTypeEnum</a>
<b>schema_type_l10n</b> <i>optional</i>	Localized message string corresponding to schema_type	string

## file\_ldap\_modify

Name	Description	Schema
<b>add_addresses</b> <i>optional</i>	IP addresses to add to the current server IP addresses list. The addresses may be IPv4 or IPv6. Error occurs if an IP address already exists in the addresses list. Cannot be combined with addresses.	< string (ip-address) > array

Name	Description	Schema
<b>addresses</b> <i>optional</i>	The list of LDAP server IP addresses. The addresses may be IPv4 or IPv6.	< string (ip-address) > array
<b>authentication_type</b> <i>optional</i>		<a href="#">FileLDAPAuthenticationTypeEnum</a>
<b>base_DN</b> <i>optional</i>	Name of the LDAP base DN. Base Distinguished Name (BDN) of the root of the LDAP directory tree. The appliance uses the DN to bind to the LDAP service and locate in the LDAP directory tree to begin a search for information. The base DN can be expressed as a fully-qualified domain name or in X.509 format by using the attribute dc=. For example, if the fully-qualified domain name is mycompany.com, the base DN is expressed as dc=mycompany,dc=com. <b>Length : 3 - 255</b>	string
<b>bind_DN</b> <i>optional</i>	Bind Distinguished Name (DN) to be used when binding. <b>Length : 0 - 1023</b>	string
<b>bind_password</b> <i>optional</i>	The associated password to be used when binding to the server. <b>Length : 0 - 1023</b>	string (password)
<b>is_smb_account_used</b> <i>optional</i>	Indicates whether SMB authentication is used to authenticate to the LDAP server. Values are:  <b>true</b> Indicates that the SMB settings are used for Kerberos authentication.  <b>false</b> Indicates that Kerberos uses its own settings.	boolean
<b>is_verify_server_certificate</b> <i>optional</i>	Indicates whether Certification Authority certificate is used to verify the LDAP server certificate for secure SSL connections. Values are:  <b>true</b> verifies LDAP server's certificate.  <b>false</b> doesn't verify LDAP server's certificate.	boolean

Name	Description	Schema
<b>password</b> <i>optional</i>	The associated password for Kerberos authentication. <b>Length</b> : 0 - 1023	string (password)
<b>port_number</b> <i>optional</i>	The TCP/IP port used by the NAS Server to connect to the LDAP servers. <b>Minimum value</b> : 0 <b>Maximum value</b> : 65536	integer (int32)
<b>principal</b> <i>optional</i>	Specifies the principal name for Kerberos authentication. <b>Length</b> : 0 - 1023	string
<b>profile_DN</b> <i>optional</i>	For an iPlanet LDAP server, specifies the DN of the entry with the configuration profile. <b>Length</b> : 0 - 255	string
<b>protocol</b> <i>optional</i>		<a href="#">FileLDAPProtocolEnum</a>
<b>realm</b> <i>optional</i>	Specifies the realm name for Kerberos authentication. <b>Length</b> : 0 - 255	string
<b>remove_addresses</b> <i>optional</i>	IP addresses to remove from the current server IP addresses list. The addresses may be IPv4 or IPv6. Error occurs if an IP address does not exist in the addresses_list. Cannot be combined with addresses.	< string (ip-address) > array

## file\_ndmp\_create

Name	Description	Schema
<b>nas_server_id</b> <i>required</i>	Unique identifier of the NAS server to be configured with these NDMP settings.	string
<b>password</b> <i>required</i>	Password for the NDMP service user.	string (password)
<b>user_name</b> <i>required</i>	User name for accessing the NDMP service.	string

## file\_ndmp\_instance

This resource type has queryable association from nas\_server

Name	Description	Schema
<b>id</b> <i>optional</i> <i>read-only</i>	Unique identifier of the NDMP service object.	string
<b>nas_server</b> <i>optional</i>	This is the embeddable reference form of nas_server_id attribute.	<a href="#">nas_server_instance</a>
<b>nas_server_id</b> <i>optional</i>	Unique identifier of the NAS server to be configured with these NDMP settings.	string
<b>user_name</b> <i>optional</i>	User name for accessing the NDMP service.	string

## file\_ndmp\_modify

Name	Description	Schema
<b>password</b> <i>optional</i>	Password for the NDMP service user.	string (password)
<b>user_name</b> <i>optional</i>	User name for accessing the NDMP service.	string

## file\_nis\_create

Name	Description	Schema
<b>domain</b> <i>required</i>	Name of the NIS domain. <b>Length : 1 - 255</b>	string
<b>ip_addresses</b> <i>required</i>	The list of NIS server IP addresses.	< string (ip-address) > array
<b>nas_server_id</b> <i>required</i>	Unique identifier of the associated NAS Server instance that uses this NIS Service object. Only one NIS Service per NAS Server is supported.	string

## file\_nis\_instance

This resource type has queryable association from nas\_server



Name	Description	Schema
<b>domain</b> <i>optional</i>	Name of the NIS domain.	string
<b>id</b> <i>optional</i>	Unique identifier of the NIS Service.	string
<b>ip_addresses</b> <i>optional</i>	The list of NIS server IP addresses.	< string (ip-address) > array
<b>nas_server</b> <i>optional</i>	This is the embeddable reference form of nas_server_id attribute.	<a href="#">nas_server_instance</a>
<b>nas_server_id</b> <i>optional</i>	Unique identifier of the associated NAS Server instance that uses this NIS Service object. Only one NIS Service per NAS Server is supported.	string

## file\_nis\_modify

Name	Description	Schema
<b>add_ip_addresses</b> <i>optional</i>	IP addresses to add to the current list. The addresses may be IPv4 or IPv6. Error occurs if the IP address already exists. Cannot be combined with ip_addresses.	< string (ip-address) > array
<b>domain</b> <i>optional</i>	Name of the NIS domain. <b>Length : 1 - 255</b>	string
<b>ip_addresses</b> <i>optional</i>	A new list of NIS server IP addresses to replace the existing list. The addresses may be IPv4 or IPv6.	< string (ip-address) > array
<b>remove_ip_addresses</b> <i>optional</i>	IP addresses to remove from the current list. The addresses may be IPv4 or IPv6. Error occurs if the IP address is not present. Cannot be combined with ip_addresses.	< string (ip-address) > array

## file\_system\_clone

Name	Description	Schema
<b>access_policy</b> <i>optional</i>		<a href="#">FileSystemAccessPolicyEnum</a>
<b>description</b> <i>optional</i>	Description of the clone. <b>Length : 0 - 255</b>	string

Name	Description	Schema
<b>folder_rename_policy</b> <i>optional</i>		<a href="#">FileSystemFolderRenamePolicyEnum</a>
<b>is_async_MTime_enabled</b> <i>optional</i>	<p>Indicates whether asynchronous MTIME is enabled on the file system. Values are:</p> <p><b>true</b> Asynchronous MTIME is enabled on the file system.</p> <p><b>false</b> Asynchronous MTIME is disabled on the file system.</p>	boolean
<b>is_smb_notify_enabled</b> <i>optional</i>	<p>Indicates whether notifications of changes to directory file structure are enabled.</p> <p><b>true</b> Change directory notifications are enabled.</p> <p><b>false</b> Change directory notifications are disabled.</p>	boolean
<b>is_smb_notify_on_access_enabled</b> <i>optional</i>	<p>Indicates whether file access notifications are enabled on the file system. Values are:</p> <p><b>true</b> File system notifications are enabled on the file system.</p> <p><b>false</b> File system notifications are disabled on the file system.</p>	boolean
<b>is_smb_notify_on_write_enabled</b> <i>optional</i>	<p>Indicates whether file writes notifications are enabled on the file system. Values are:</p> <p><b>true</b> File writes notifications are enabled on the file system.</p> <p><b>false</b> File writes notifications are disabled on the file system.</p>	boolean

Name	Description	Schema
<b>is_smb_op_locks_enabled</b> <i>optional</i>	Indicates if opportunistic file locking is enabled on the file system. Values are:  <b>true</b> Opportunistic file locking is enabled on the file system.  <b>false</b> Opportunistic file locking is disabled on the file system.	boolean
<b>is_smb_sync_writes_enabled</b> <i>optional</i>	Indicates whether the synchronous writes option is enabled on the file system. Values are:  <b>true</b> Synchronous writes option is enabled on the file system.  <b>false</b> Synchronous writes option is disabled on the file system.	boolean
<b>locking_policy</b> <i>optional</i>		<a href="#">FileSystemLockingPolicyEnum</a>
<b>name</b> <i>required</i>	Name of the clone. <b>Length : 1 - 255</b>	string
<b>smb_notify_on_change_dir_depth</b> <i>optional</i>	Lowest directory level to which the enabled notifications apply, if any. <b>Minimum value : 1</b> <b>Maximum value : 512</b>	integer (int32)

## file\_system\_clone\_response

File system clone created.

Name	Description	Schema
<b>id</b> <i>optional</i>	The id of the created clone.	string

## file\_system\_create

Name	Description	Schema
<b>access_policy</b> <i>optional</i>		<a href="#">FileSystemAccessPolicyEnum</a>

Name	Description	Schema
<b>description</b> <i>optional</i>	File system description. (255 UTF-8 characters). <b>Length</b> : 0 - 255	string
<b>folder_rename_policy</b> <i>optional</i>		<a href="#">FileSystemFolderRenamePolicyEnum</a>
<b>is_async_MTime_enabled</b> <i>optional</i>	Indicates whether asynchronous MTIME is enabled on the file system or protocol snaps that are mounted writeable. Values are:  <b>true</b> Asynchronous MTIME is enabled on the file system.  <b>false</b> Asynchronous MTIME is disabled on the file system. <b>Default</b> : false	boolean
<b>is_smb_notify_enabled</b> <i>optional</i>	Indicates whether notifications of changes to directory file structure are enabled.  <b>true</b> Change directory notifications are enabled.  <b>false</b> Change directory notifications are disabled. <b>Default</b> : false	boolean
<b>is_smb_notify_on_access_enabled</b> <i>optional</i>	Indicates whether file access notifications are enabled on the file system. Values are:  <b>true</b> File access notifications are enabled on the file system.  <b>false</b> File access notifications are disabled on the file system. <b>Default</b> : false	boolean

Name	Description	Schema
<b>is_smb_notify_on_write_enabled</b> <i>optional</i>	Indicates whether file writes notifications are enabled on the file system. Values are:  <b>true</b> File writes notifications are enabled on the file system.  <b>false</b> File writes notifications are disabled on the file system. <b>Default : false</b>	boolean
<b>is_smb_op_locks_enabled</b> <i>optional</i>	Indicates whether opportunistic file locking is enabled on the file system. Values are:  <b>true</b> Opportunistic file locking is enabled on the file system.  <b>false</b> Opportunistic file locking is disabled on the file system. <b>Default : true</b>	boolean
<b>is_smb_sync_writes_enabled</b> <i>optional</i>	Indicates whether the synchronous writes option is enabled on the file system. Values are:  <b>true</b> Synchronous writes option is enabled on the file system.  <b>false</b> Synchronous writes option is disabled on the file system. <b>Default : false</b>	boolean
<b>locking_policy</b> <i>optional</i>		<a href="#">FileSystemLockingPolicyEnum</a>
<b>name</b> <i>required</i>	Name of the file system. (255 UTF-8 characters). <b>Length : 1 - 255</b>	string
<b>nas_server_id</b> <i>required</i>	Id of the NAS Server on which the file system is mounted.	string
<b>protection_policy_id</b> <i>optional</i>	Id of the protection policy applied to the file system.	string

Name	Description	Schema
<b>size_total</b> <i>required</i>	Size that the file system presents to the host or end user. (Bytes) <b>Minimum value</b> : 3221225472 <b>Maximum value</b> : 281474976710656	integer (int64)
<b>smb_notify_on</b> <b>_change_dir_d</b> <b>ept</b> <i>optional</i>	Lowest directory level to which the enabled notifications apply, if any. <b>Minimum value</b> : 1 <b>Maximum value</b> : 512	integer (int32)

## file\_system\_instance

This resource type has queriable associations from nas\_server, policy, file\_tree\_quota, file\_user\_quota, nfs\_export, smb\_share

Name	Description	Schema
<b>access_policy</b> <i>optional</i>		<a href="#">FileSystemAccessPolicyEnum</a>
<b>access_policy_110n</b> <i>optional</i>	Localized message string corresponding to access_policy	string
<b>access_type</b> <i>optional</i>		<a href="#">FileSystemSnapshotAccessTypeEnum</a>
<b>access_type_110n</b> <i>optional</i>	Localized message string corresponding to access_type	string
<b>creation_time</b> <b>stamp</b> <i>optional</i>	Time, in seconds, when the snapshot was created.	string (date-time)
<b>creator_type</b> <i>optional</i>		<a href="#">FileSystemSnapshotCreatorTypeEnum</a>
<b>creator_type_110n</b> <i>optional</i>	Localized message string corresponding to creator_type	string

Name	Description	Schema
<b>default_hard_limit</b> <i>optional</i>	Default hard limit of user quotas and tree quotas (bytes). (0 means 'No limitation'. This value can be used to compute the amount of space consumed without limiting the space). <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>default_soft_limit</b> <i>optional</i>	Default soft limit of user quotas and tree quotas (bytes). (0 means 'No limitation') <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>description</b> <i>optional</i>	File system description.	string
<b>expiration_timestamp</b> <i>optional</i>	Time, in seconds, when the snapshot will expire.	string (date-time)
<b>file_tree_quotas</b> <i>optional</i>	This is the inverse of the resource type file_tree_quota association.	< <a href="#">file_tree_quota_instance</a> > array
<b>file_user_quotas</b> <i>optional</i>	This is the inverse of the resource type file_user_quota association.	< <a href="#">file_user_quota_instance</a> > array
<b>filesystem_type</b> <i>optional</i>		<a href="#">FileSystemTypeEnum</a>
<b>filesystem_type_l10n</b> <i>optional</i>	Localized message string corresponding to filesystem_type	string
<b>folder_rename_policy</b> <i>optional</i>		<a href="#">FileSystemFolderRenamePolicyEnum</a>
<b>folder_rename_policy_l10n</b> <i>optional</i>	Localized message string corresponding to folder_rename_policy	string

Name	Description	Schema
<b>grace_period</b> <i>optional</i>	Grace period of soft limit (seconds): -1: Infinite grace period (Windows policy). 0: Use default grace period of 1 week (default). positive: Grace period after which the soft limit is treated as a hard limit (seconds). <b>Default : -1</b> <b>Minimum value : -1</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>id</b> <i>optional</i>	File system id.	string
<b>is_async_MTime_enabled</b> <i>optional</i>	Indicates whether asynchronous MTIME is enabled on the file system. Values are:  <b>true</b> Asynchronous MTIME is enabled on the file system.  <b>false</b> Asynchronous MTIME is disabled on the file system.	boolean
<b>is_modified</b> <i>optional</i>	Indicates whether the snapshot may have changed since it was created. Values are: true - Snapshot is or was shared with read/write access. false - Snapshot was never shared.	boolean
<b>is_quota_enabled</b> <i>optional</i>	Indicates whether quota is enabled. Values are:  <b>true</b> Start tracking usages for all users on a file system or a quota tree, and user quota limits will be enforced.  <b>false</b> Stop tracking usages for all users on a file system or a quota tree, and user quota limits will not be enforced.	boolean
<b>is_smb_notify_enabled</b> <i>optional</i>	Indicates whether notifications of changes to a directory file structure are enabled.  <b>true</b> Change directory notifications are enabled.  <b>false</b> Change directory notifications are disabled.	boolean



Name	Description	Schema
<b>is_smb_notify_on_access_enabled</b> <i>optional</i>	Indicates whether file access notifications are enabled on the file system. Values are: <b>true</b> File access notifications are enabled on the file system. <b>false</b> File access notifications are disabled on the file system.	boolean
<b>is_smb_notify_on_write_enabled</b> <i>optional</i>	Indicates whether file writes notifications are enabled on the file system. Values are: <b>true</b> File writes notification are enabled on the file system. <b>false</b> File writes notifications are disabled on the file system.	boolean
<b>is_smb_op_locks_enabled</b> <i>optional</i>	Indicates whether opportunistic file locking is enabled on the file system. Values are: <b>true</b> Opportunistic file locking is enabled on the file system. <b>false</b> Opportunistic file locking is disabled on the file system.	boolean
<b>is_smb_sync_writes_enabled</b> <i>optional</i>	Indicates whether the synchronous writes option is enabled on the file system. Values are: <b>true</b> Synchronous writes option is enabled on the file system. <b>false</b> Synchronous writes option is disabled on the file system.	boolean
<b>last_refresh_timestamp</b> <i>optional</i>	Time, in seconds, when the snapshot was last refreshed.	string (date-time)
<b>last_writable_timestamp</b> <i>optional</i>	If not mounted, and was previously mounted, the time (in seconds) of last mount. If never mounted, the value will be zero.	string (date-time)

Name	Description	Schema
<b>locking_policy</b> <i>optional</i>		<a href="#">FileSystemLockingPolicyEnum</a>
<b>locking_policy_110n</b> <i>optional</i>	Localized message string corresponding to locking_policy	string
<b>name</b> <i>optional</i>	File system name. This property supports case-insensitive filtering	string
<b>nas_server</b> <i>optional</i>	This is the embeddable reference form of nas_server_id attribute.	<a href="#">nas_server_instance</a>
<b>nas_server_id</b> <i>optional</i>	Id of the NAS Server on which the file system is mounted.	string
<b>nfs_exports</b> <i>optional</i>	This is the inverse of the resource type nfs_export association.	< <a href="#">nfs_export_instance</a> > array
<b>parent_id</b> <i>optional</i>	The object id of the parent of this file system (only applies to clones and snapshots). If the parent of a clone has been deleted the object_id will contain null.	string
<b>protection_policy</b> <i>optional</i>	This is the embeddable reference form of protection_policy_id attribute.	<a href="#">policy_instance</a>
<b>protection_policy_id</b> <i>optional</i>	Id of the protection policy applied to the file system.	string
<b>size_total</b> <i>optional</i>	Size, in bytes, presented to the host or end user. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>size_used</b> <i>optional</i>	Size used, in bytes, for the data and metadata of the file system. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)

Name	Description	Schema
<b>smb_notify_on_change_dir_depth</b> <i>optional</i>	Lowest directory level to which the enabled notifications apply, if any. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>smb_shares</b> <i>optional</i>	This is the inverse of the resource type smb_share association.	< <a href="#">smb_share_instance</a> > array

## file\_system\_modify

Name	Description	Schema
<b>access_policy</b> <i>optional</i>		<a href="#">FileSystemAccessPolicyEnum</a>
<b>default_hard_limit</b> <i>optional</i>	Default hard limit of user quotas and tree quotas (bytes). The hard limit value is always rounded up to match the file system's physical block size. (0 means 'No limitation'. This value can be used to compute the amount of space consumed without limiting the space). <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>default_soft_limit</b> <i>optional</i>	Default soft limit of user quotas and tree quotas (bytes). Value is always rounded up to match the file system's physical block size. (0 means 'No limitation'.) <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>description</b> <i>optional</i>	File system description. (255 UTF-8 characters). <b>Length</b> : 0 - 255	string
<b>expiration_timestamp</b> <i>optional</i>	Time when the snapshot will expire. Use 1970-01-01T00:00:00.000Z to set expiration timestamp to null.	string (date-time)
<b>folder_rename_policy</b> <i>optional</i>		<a href="#">FileSystemFolderRenamePolicyEnum</a>

Name	Description	Schema
<b>grace_period</b> <i>optional</i>	Grace period of soft limits (seconds): -1: default: Infinite grace (Windows policy). 0: Use system default of 1 week. positive: Grace period after which the soft limit is treated as a hard limit (seconds). <b>Default : -1</b> <b>Minimum value : -1</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>is_async_MTime_enabled</b> <i>optional</i>	Indicates whether asynchronous MTIME is enabled on the file system or protocol snaps that are mounted writeable. Values are: <b>true</b> Asynchronous MTIME is enabled on the file system. <b>false</b> Asynchronous MTIME is disabled on the file system.	boolean
<b>is_quota_enabled</b> <i>optional</i>	Indicates whether quota is enabled. Quotas are not supported for read-only file systems. Default value for the grace period is set to infinite=-1 to match Windows' quota policy Values are: <b>true</b> Start tracking usages for all users on a file system or a quota tree, and user quota limits will be enforced. <b>false</b> Stop tracking usages for all users on a file system or a quota tree, and user quota limits will not be enforced.	boolean
<b>is_smb_notify_enabled</b> <i>optional</i>	Indicates whether notifications of changes to a directory file structure are enabled. Values are: <b>true</b> Change directory notifications are enabled. <b>false</b> Change directory notifications are disabled.	boolean

Name	Description	Schema
<b>is_smb_notify_on_access_enabled</b> <i>optional</i>	Indicates whether file access notifications are enabled on the file system. Values are:  <b>true</b> File access notifications are enabled on the file system.  <b>false</b> File access notifications on file access are disabled on the file system.	boolean
<b>is_smb_notify_on_write_enabled</b> <i>optional</i>	Indicates whether notifications on file writes are enabled on the file system. Values are:  <b>true</b> File writes notifications are enabled on the file system.  <b>false</b> File writes notifications are disabled on the file system.	boolean
<b>is_smb_op_locks_enabled</b> <i>optional</i>	Indicates whether opportunistic file locking is enabled on the file system. Values are:  <b>true</b> Opportunistic file locking is enabled on the file system.  <b>false</b> Opportunistic file locking is disabled on the file system.	boolean
<b>is_smb_sync_writes_enabled</b> <i>optional</i>	Indicates whether the synchronous writes option is enabled on the file system. Values are:  <b>true</b> Synchronous writes option is enabled on the file system.  <b>false</b> Synchronous writes option is disabled on the file system.	boolean
<b>locking_policy</b> <i>optional</i>		<a href="#">FileSystemLockingPolicyEnum</a>
<b>protection_policy_id</b> <i>optional</i>	Id of the protection policy applied to the file system.	string

Name	Description	Schema
<b>size_total</b> <i>optional</i>	Size, in bytes, presented to the host or end user. This can be used for both expand and shrink on a file system. <b>Minimum value</b> : 3221225472 <b>Maximum value</b> : 281474976710656	integer (int64)
<b>smb_notify_on_change_dir_depth</b> <i>optional</i>	Lowest directory level to which the enabled notifications apply, if any. <b>Minimum value</b> : 1 <b>Maximum value</b> : 512	integer (int32)

## file\_system\_restore

Name	Description	Schema
<b>copy_name</b> <i>optional</i>	Name of the backup snap to be created before the Restore operation occurs. If no name is specified no backup copy will be made. <b>Length</b> : 1 - 255	string

## file\_system\_restore\_response

File system backup snapshot created.

Name	Description	Schema
<b>id</b> <i>optional</i>	The id of the created snapshot.	string

## file\_system\_snapshot

Name	Description	Schema
<b>access_policy</b> <i>optional</i>		<a href="#">FileSystemAccessPolicyEnum</a>
<b>access_type</b> <i>optional</i>		<a href="#">FileSystemSnapshotAccessTypeEnum</a>
<b>description</b> <i>optional</i>	Snapshot description <b>Length</b> : 0 - 255	string

Name	Description	Schema
<b>expiration_timestamp</b> <i>optional</i>	Time, when the snapshot will expire.	string (date-time)
<b>folder_rename_policy</b> <i>optional</i>		<a href="#">FileSystemFolderRenamePolicyEnum</a>
<b>is_async_MTime_enabled</b> <i>optional</i>	Indicates whether asynchronous MTIME is enabled on the protocol snaps that are mounted writeable. Values are:  <b>true</b> Asynchronous MTIME is enabled on the file system.  <b>false</b> Asynchronous MTIME is disabled on the file system.	boolean
<b>is_auto_delete_enabled</b> <i>optional</i>	Indicates whether the snapshot can be automatically deleted per threshold settings. Values are:  <b>true</b> Snapshot can be automatically deleted per threshold settings.  <b>false</b> Snapshot cannot be automatically deleted.	boolean
<b>is_smb_notify_enabled</b> <i>optional</i>	Indicates whether notifications of changes to a directory file structure are enabled.  <b>true</b> Change directory notifications are enabled.  <b>false</b> Change directory notifications are disabled.	boolean
<b>is_smb_notify_on_access_enabled</b> <i>optional</i>	Indicates whether file access notifications are enabled on the file system. Values are:  <b>true</b> File access notifications are enabled on the file system.  <b>false</b> File access notifications are disabled on the file system.	boolean

Name	Description	Schema
<b>is_smb_notify_on_write_enabled</b> <i>optional</i>	Indicates whether file writes notifications are enabled on the file system. Values are:  <b>true</b> File writes notifications are enabled on the file system.  <b>false</b> File writes notifications are disabled on the file system.	boolean
<b>is_smb_op_locks_enabled</b> <i>optional</i>	Indicates whether opportunistic file locking is enabled on the file system. Values are:  <b>true</b> Opportunistic file locking is enabled on the file system.  <b>false</b> Opportunistic file locking is disabled on the file system.	boolean
<b>is_smb_sync_writes_enabled</b> <i>optional</i>	Indicates whether the synchronous writes option is enabled on the file system. Values are:  <b>true</b> Synchronous writes option is enabled on the file system.  <b>false</b> Synchronous writes option is disabled on the file system.	boolean
<b>locking_policy</b> <i>optional</i>		<a href="#">FileSystemLockingPolicyEnum</a>
<b>name</b> <i>optional</i>	Name of the snapshot. The default name of the snapshot is the date and time when the snapshot is taken. <b>Length : 1 - 255</b>	string
<b>smb_notify_on_change_dir_depth</b> <i>optional</i>	Lowest directory level to which the enabled notifications apply, if any. <b>Minimum value : 1</b> <b>Maximum value : 512</b>	integer (int32)

## file\_system\_snapshot\_response

Snapshot file system created.



Name	Description	Schema
<b>id</b> <i>optional</i>	The id of the created snapshot.	string

## file\_tree\_quota\_create

Name	Description	Schema
<b>description</b> <i>optional</i>	Description of the tree quota.	string
<b>file_system_id</b> <i>required</i>	Unique identifier of the associated file system.	string
<b>hard_limit</b> <i>optional</i>	Hard limit of the tree quota, in bytes. No hard limit when set to 0. This value can be used to compute amount of space that is consumed without limiting the space. Value is always rounded up to match the physical block size of the filesystem. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>is_user_quotas_enforced</b> <i>optional</i>	Whether the quota must be enabled for all users, and whether user quota limits, if any, are enforced. Values are: - true - start tracking usage for all users on the quota tree, and enforce user quota limits. - false - stop tracking usage for all users on the quota tree, and do not enforce user quota limits.	boolean
<b>path</b> <i>required</i>	Path relative to the root of the associated filesystem.	string
<b>soft_limit</b> <i>optional</i>	Soft limit of the tree quota, in bytes. No hard limit when set to 0. Value is always rounded up to match the physical block size of the filesystem. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)

## file\_tree\_quota\_instance

This resource type has queryable associations from file\_system, file\_user\_quota

Name	Description	Schema
<b>description</b> <i>optional</i>	Description of the tree quota.	string
<b>file_system</b> <i>optional</i>	This is the embeddable reference form of file_system_id attribute.	<a href="#">file_system_instance</a>
<b>file_system_id</b> <i>optional</i>	Unique identifier of the associated file system.	string
<b>file_user_tree_quotas</b> <i>optional</i>	This is the inverse of the resource type file_user_quota association.	< <a href="#">file_user_quota_instance</a> > array
<b>hard_limit</b> <i>optional</i>	Hard limit of the tree quota, in bytes. No hard limit when set to 0. This value can be used to compute amount of space that is consumed without limiting the space. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>id</b> <i>optional</i> <i>read-only</i>	Unique identifier of the tree quota.	string
<b>is_user_quotas_enforced</b> <i>optional</i>	Whether user quota are enabled on this tree quota. The tree quota itself is enforced regardless of this parameter.	boolean
<b>path</b> <i>optional</i>	Path relative to the root of the associated filesystem.	string
<b>remaining_grace_period</b> <i>optional</i>	Remaining grace period, in seconds, after the soft limit is exceeded: - 0 - Grace period has already expired - -1 - No grace period in-progress, or infinite grace period set The grace period of user quotas is set in the file system quota config. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>size_used</b> <i>optional</i>	Size already used on the tree quota, in bytes. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)

Name	Description	Schema
<b>soft_limit</b> <i>optional</i>	Soft limit of the tree quota, in bytes. No hard limit when set to 0. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>state</b> <i>optional</i>		FileQuotaStateEnum
<b>state_l10n</b> <i>optional</i>	Localized message string corresponding to state	string

## file\_tree\_quota\_modify

Name	Description	Schema
<b>description</b> <i>optional</i>	Description of the tree quota.	string
<b>hard_limit</b> <i>optional</i>	Hard limit of the tree quota, in bytes. No hard limit when set to 0. This value can be used to compute amount of space that is consumed without limiting the space. Value is always rounded up to match the physical block size of the filesystem. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>is_user_quotas_enforced</b> <i>optional</i>	Whether the quota must be enabled for all users, and whether user quota limits, if any, are enforced. Values are: - true - start tracking usage for all users on the quota tree, and enforce user quota limits. - false - stop tracking usage for all users on the quota tree, and do not enforce user quota limits.	boolean
<b>soft_limit</b> <i>optional</i>	Soft limit of the tree quota, in bytes. No hard limit when set to 0. Value is always rounded up to match the physical block size of the filesystem. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)

## file\_user\_quota\_create

Name	Description	Schema
<b>file_system_id</b> <i>required</i>	Unique identifier of the filesystem in which the new user quota will be created.	string
<b>hard_limit</b> <i>optional</i>	Hard limit of the user quota, in bytes. No hard limit when set to 0. This value can be used to compute amount of space that is consumed without limiting the space. Value is rounded up to match the physical block size of the filesystem. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>soft_limit</b> <i>optional</i>	Soft limit of the user quota, in bytes. No hard limit when set to 0. Value is rounded up to match the physical block size of the filesystem. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>tree_quota_id</b> <i>optional</i>	Unique identifier of the tree quota in which the new user quota will be created.	string
<b>uid</b> <i>optional</i>	Unix user identifier (UID) of the user. Preferred identifier. <b>Minimum value</b> : 1 <b>Maximum value</b> : 4294967294	integer (int64)
<b>unix_name</b> <i>optional</i>	Unix username. Identifiers are exclusive. Only one of the four identifiers among 'user uid' / 'unix username' / 'windows username' / 'windows SID' can be used at a time.	string
<b>windows_name</b> <i>optional</i>	Windows username. The format is domain\user for the domain user. Identifiers are exclusive. Only one of the four identifiers among 'user uid' / 'unix username' / 'windows username' / 'windows SID' can be used at a time.	string
<b>windows_sid</b> <i>optional</i>	Windows Security Identifier of the user. Identifiers are exclusive. Only one of the four identifiers among 'user uid' / 'unix username' / 'windows username' / 'windows SID' can be used at a time.	string

## file\_user\_quota\_instance

This resource type has queryable associations from file\_system, file\_tree\_quota

Name	Description	Schema
<b>file_system</b> <i>optional</i>	This is the embeddable reference form of file_system_id attribute.	<a href="#">file_system_instance</a>
<b>file_system_id</b> <i>optional</i>	Unique identifier of the associated filesystem.	string
<b>hard_limit</b> <i>optional</i>	Hard limit of the user quota, in bytes. No hard limit when set to 0. This value can be used to compute amount of space that is consumed without limiting the space. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>id</b> <i>optional</i> <i>read-only</i>	Unique identifier of the user quota.	string
<b>remaining_grace_period</b> <i>optional</i>	Remaining grace period, in seconds, after the soft limit is exceeded: - 0 - Grace period has already expired - -1 - No grace period in-progress, or infinite grace period set The grace period of user quotas is set in the file system quota configuration. <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>size_used</b> <i>optional</i>	Size currently consumed by the user on the filesystem, in bytes. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>soft_limit</b> <i>optional</i>	Soft limit of the user quota, in bytes. No hard limit when set to 0. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>state</b> <i>optional</i>		<a href="#">FileQuotaStateEnum</a>
<b>state_l10n</b> <i>optional</i>	Localized message string corresponding to state	string
<b>tree_quota</b> <i>optional</i>	This is the embeddable reference form of tree_quota_id attribute.	<a href="#">file_tree_quota_instance</a>

Name	Description	Schema
<b>tree_quota_id</b> <i>optional</i>	Unique identifier of the associated tree quota. Values are: - null - if the user quota is not within a quota tree. - tree_quota instance id - if the user quota is within a quota tree.	string
<b>uid</b> <i>optional</i>	Unix user identifier (UID) of the user. <b>Minimum value</b> : 1 <b>Maximum value</b> : 4294967294	integer (int64)
<b>unix_name</b> <i>optional</i>	Unix username.	string
<b>windows_name</b> <i>optional</i>	Windows username. The format is domain\user for the domain user.	string
<b>windows_sid</b> <i>optional</i>	Windows Security Identifier of the user.	string

## file\_user\_quota\_modify

Name	Description	Schema
<b>hard_limit</b> <i>optional</i>	Hard limit of the user quota, in bytes. No hard limit when set to 0. This value can be used to compute amount of space that is consumed without limiting the space. Value is rounded up to match the physical block size of the filesystem. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>soft_limit</b> <i>optional</i>	Soft limit of the user quota, in bytes. No hard limit when set to 0. Value is rounded up to match the physical block size of the filesystem. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)

## file\_virus\_checker\_create

Name	Description	Schema
<b>nas_server_id</b> <i>required</i>	Unique identifier of an associated NAS Server instance that uses this virus checker configuration. Only one virus checker configuration per NAS Server is supported.	string

## file\_virus\_checker\_instance

This resource type has queryable association from nas\_server

Name	Description	Schema
<b>id</b> <i>optional</i>	Unique identifier of the virus checker instance.	string
<b>is_config_file_uploaded</b> <i>optional</i>	Indicates whether a virus checker configuration file has been uploaded. <b>Default : false</b>	boolean
<b>is_enabled</b> <i>optional</i>	Indicates whether the anti-virus service is enabled on this NAS server. Value are: - true - Anti-virus service is enabled. Each file created or modified by an SMB client is scanned by the third-party anti-virus servers. If a virus is detected, the access to the file system is denied. If third-party anti-virus servers are not available, according the policy, the access to the file systems is denied to prevent potential viruses propagation. - false - Anti-virus service is disabled. File systems of the NAS servers are available for access without virus checking	boolean
<b>nas_server</b> <i>optional</i>	This is the embeddable reference form of nas_server_id attribute.	<a href="#">nas_server_instance</a>
<b>nas_server_id</b> <i>optional</i>	NAS server that is configured with these anti-virus settings.	string

## file\_virus\_checker\_modify

Name	Description	Schema
<b>is_enabled</b> <i>required</i>	Indicates whether the anti-virus service is enabled on this NAS server. Value are: - true - Anti-virus service is enabled. Each file created or modified by an SMB client is scanned by the third-party anti-virus servers. If a virus is detected, the access to the file system is denied. If third-party anti-virus servers are not available, according the policy, the access to the file systems is denied to prevent potential viruses propagation. - false - Anti-virus service is disabled. File systems of the NAS servers are available for access without virus checking.	boolean

## hardware\_drive\_repurpose

Name	Description	Schema
<b>psid</b> <i>required</i>	An alpha-numeric string that can be found on the physical label of the drive to repurpose. This is needed to validate that the user has physical control of the drive before performing the operation.	string

## hardware\_extra\_details\_instance

Additional hardware details that are specific to each hardware type. Filtering on the fields of this embedded resource is not supported.

Name	Description	Schema
<b>bus_number</b> <i>optional</i>	Bus number of the Expansion_Shelf. Available on the Expansion_Shelf hardware type. <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>connector_type</b> <i>optional</i>		<a href="#">HardwareSFPConnectorTypeEnum</a>
<b>connector_type_l10n</b> <i>optional</i>	Localized message string corresponding to connector_type	string



Name	Description	Schema
<b>cpu_cores</b> <i>optional</i>	Total number of physical cores. Available on the Node hardware type. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>cpu_model</b> <i>optional</i>	CPU model name. Available on Node hardware type.	string
<b>cpu_sockets</b> <i>optional</i>	Total number of physical sockets. Available on the Node hardware type. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>dell_service_tag</b> <i>optional</i>	Dell service tag of the hardware. Available on the Base_Enclosure and Expansion_Enclosure hardware types.	string
<b>drive_type</b> <i>optional</i>		<a href="#">HardwareDriveTypeEnum</a>
<b>drive_type_l10n</b> <i>optional</i>	Localized message string corresponding to drive_type	string
<b>enclosure_number</b> <i>optional</i>	Enclosure number of the Expansion_Shelf. Available on the Expansion_Shelf hardware type. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>encryption_status</b> <i>optional</i>		<a href="#">HardwareDriveEncryptionStatusEnum</a>
<b>encryption_status_l10n</b> <i>optional</i>	Localized message string corresponding to encryption_status	string
<b>express_service_code</b> <i>optional</i>	Express service code of the hardware. Available on the Base_Enclosure and Expansion_Enclosure hardware types.	string
<b>fips_status</b> <i>optional</i>		<a href="#">HardwareDriveFIPSStatusEnum</a>

Name	Description	Schema
<b>fips_status_110n</b> <i>optional</i>	Localized message string corresponding to fips_status	string
<b>firmware_version</b> <i>optional</i>	Firmware version of the hardware. Available on the Drive hardware type.	string
<b>mode</b> <i>optional</i>		<a href="#">HardwareSFPModeEnum</a>
<b>mode_110n</b> <i>optional</i>	Localized message string corresponding to mode	string
<b>model_name</b> <i>optional</i>	Model name of the hardware. Available on the IO_Module and M2_Drive hardware types.	string
<b>physical_memory_size_gb</b> <i>optional</i>	Total amount of physical memory in gigabytes. Available on the Node hardware type. <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>size</b> <i>optional</i>	Size of the drive in bytes. Available on the Drive hardware type. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>supported_protocol</b> <i>optional</i>		<a href="#">HardwareSFPSupportedProtocolEnum</a>
<b>supported_protocol_110n</b> <i>optional</i>	Localized message string corresponding to supported_protocol	string
<b>supported_speeds</b> <i>optional</i>		< <a href="#">HardwareSFPSpeedEnum</a> > array
<b>supported_speeds_110n</b> <i>optional</i>	Localized message array corresponding to supported_speeds	< string > array

# hardware\_instance

Hardware component information. This resource type has queriable associations from `fc_port`, `sas_port`, `eth_port`, `hardware`, `appliance`

Name	Description	Schema
<b>appliance</b> <i>optional</i>	This is the embeddable reference form of <code>appliance_id</code> attribute.	<a href="#">appliance_instance</a>
<b>appliance_id</b> <i>optional</i>	The id of the component's associated appliance.	string
<b>children</b> <i>optional</i>	This is the inverse of the resource type <code>hardware</code> association.	< <a href="#">hardware_instance</a> > array
<b>extra_details</b> <i>optional</i>	Additional hardware details. Contents are specific to each component type.	<a href="#">hardware_extra_details_instance</a>
<b>id</b> <i>optional</i>	The unique id of the component.	string
<b>io_module_eth_ports</b> <i>optional</i>	This is the inverse of the resource type <code>eth_port</code> association.	< <a href="#">eth_port_instance</a> > array
<b>io_module_fc_ports</b> <i>optional</i>	This is the inverse of the resource type <code>fc_port</code> association.	< <a href="#">fc_port_instance</a> > array
<b>io_module_sas_ports</b> <i>optional</i>	This is the inverse of the resource type <code>sas_port</code> association.	< <a href="#">sas_port_instance</a> > array
<b>is_marked</b> <i>optional</i>	Indicator of whether a component is location marked or not.	boolean
<b>lifecycle_state</b> <i>optional</i>	Life cycle state of the component.	<a href="#">HardwareLifecycleStateEnum</a>
<b>lifecycle_state_i10n</b> <i>optional</i>	Localized message string corresponding to <code>lifecycle_state</code>	string

Name	Description	Schema
<b>name</b> <i>optional</i>	The name of the component. This property supports case-insensitive filtering	string
<b>node_eth_ports</b> <i>optional</i>	This is the inverse of the resource type eth_port association.	< <a href="#">eth_port_instance</a> > array
<b>node_fc_ports</b> <i>optional</i>	This is the inverse of the resource type fc_port association.	< <a href="#">fc_port_instance</a> > array
<b>node_sas_ports</b> <i>optional</i>	This is the inverse of the resource type sas_port association.	< <a href="#">sas_port_instance</a> > array
<b>parent</b> <i>optional</i>	This is the embeddable reference form of parent_id attribute.	<a href="#">hardware_instance</a>
<b>parent_id</b> <i>optional</i>	The id of the component's parent, or null if this component is at the top of the parent hierarchy.	string
<b>part_number</b> <i>optional</i>	The part number of the component.	string
<b>serial_number</b> <i>optional</i>	The serial number of the component.	string
<b>sfp_eth_ports</b> <i>optional</i>	This is the inverse of the resource type eth_port association.	< <a href="#">eth_port_instance</a> > array
<b>sfp_fc_ports</b> <i>optional</i>	This is the inverse of the resource type fc_port association.	< <a href="#">fc_port_instance</a> > array
<b>sfp_sas_ports</b> <i>optional</i>	This is the inverse of the resource type sas_port association.	< <a href="#">sas_port_instance</a> > array
<b>slot</b> <i>optional</i>	The slot or location of the component. <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>status_led_state</b> <i>optional</i>	Indicator of the state of the component status LED.	<a href="#">HardwareStatusLED</a> <a href="#">StateEnum</a>

Name	Description	Schema
<b>status_led_state_l10n</b> <i>optional</i>	Localized message string corresponding to status_led_state	string
<b>type</b> <i>optional</i>	Hardware component type.	<a href="#">HardwareTypeEnum</a>
<b>type_l10n</b> <i>optional</i>	Localized message string corresponding to type	string

## hardware\_modify

Hardware properties to modify.

Name	Description	Schema
<b>is_marked</b> <i>required</i>	New state for the hardware component location marker LED. Setting it to true will put the LED in a blinking state until set to false. Note that the state returned in the hardware component may not actually change for up to 60 seconds. This operation is currently supported for Base_Enclosure, Expansion_Enclosure, Node and Drive. Note that operations at the Base_Enclosure and Expansion_Enclosure apply to their children (Nodes and Drives for Base_Enclosure and Drives for Expansion_Enclosure). For components with a single physical LED (Base_Enclosure and Node), setting is_marked=true overrides the status_led_state property from on (or off) to Null, and setting is_marked=false reverts status_led_state to showing the state of the physical LED.	boolean

## host\_attach

Volume id and optional logical unit number for attaching to host.

Name	Description	Schema
<b>logical_unit_number</b> <i>optional</i>	Logical unit number for the volume, if desired. <b>Minimum value</b> : 0 <b>Maximum value</b> : 16383	integer (int32)
<b>volume_id</b> <i>required</i>	Volume to attach.	string

## host\_create

Name	Description	Schema
<b>description</b> <i>optional</i>	An optional description for the host. The description should not be more than 256 UTF-8 characters long and should not have any unprintable characters. <b>Maximal length</b> : 256	string
<b>initiators</b> <i>required</i>		< <a href="#">initiator_create_modify</a> > array
<b>name</b> <i>required</i>	The host name. The name should not be more than 128 UTF-8 characters long and should not have any unprintable characters. <b>Maximal length</b> : 128	string
<b>os_type</b> <i>required</i>		<a href="#">OSTypeEnum</a>

## host\_delete

Type : object

## host\_detach

Name	Description	Schema
<b>volume_id</b> <i>required</i>	Volume to detach.	string

## host\_group\_attach

Volume id and optional logical unit number for attaching to host group.

Name	Description	Schema
<b>logical_unit_number</b> <i>optional</i>	Logical unit number for the volume, if desired. <b>Minimum value</b> : 0 <b>Maximum value</b> : 16383	integer (int32)
<b>volume_id</b> <i>required</i>	Volume to attach.	string

## host\_group\_create

Create host group parameters.

Name	Description	Schema
<b>description</b> <i>optional</i>	An optional description for the host group. The description should not have any unprintable characters. <b>Maximal length : 256</b>	string
<b>host_ids</b> <i>required</i>		< string > array
<b>name</b> <i>required</i>	The host group name. The name should not be more than 128 UTF-8 characters long and should not have any unprintable characters. <b>Maximal length : 128</b>	string

## host\_group\_detach

Name	Description	Schema
<b>volume_id</b> <i>required</i>	Volume to detach.	string

## host\_group\_instance

This resource type has queriable associations from host, host\_volume\_mapping, host\_virtual\_volume\_mapping

Name	Description	Schema
<b>description</b> <i>optional</i>	A description for the host group.	string
<b>host_virtual_volume_mappings</b> <i>optional</i>	This is the inverse of the resource type host_virtual_volume_mapping association.	< <a href="#">host_virtual_volume_mapping_instance</a> > array
<b>hosts</b> <i>optional</i>	This is the inverse of the resource type host association.	< <a href="#">host_instance</a> > array
<b>id</b> <i>optional</i>	The host group unique identifier.	string

Name	Description	Schema
<b>mapped_host_groups</b> <i>optional</i>	This is the inverse of the resource type host_volume_mapping association.	< <a href="#">host_volume_mapping_instance</a> > array
<b>name</b> <i>optional</i>	The host group name. This property supports case-insensitive filtering	string

## host\_group\_modify

Modify host group parameters.

Name	Description	Schema
<b>add_host_ids</b> <i>optional</i>	List of hosts to be added to host group. The operation fails if the host(s) to be added are attached to volume.	< string > array
<b>description</b> <i>optional</i>	An optional description for the host group. The description should not be more than 256 UTF-8 characters long and should not have any unprintable characters. <b>Maximal length : 256</b>	string
<b>name</b> <i>optional</i>	A new host group name. The name should not be more than 128 UTF-8 characters long and should not have any unprintable characters. <b>Maximal length : 128</b>	string
<b>remove_host_ids</b> <i>optional</i>	List of hosts to be removed from the host group. The operation fails if host group is attached to volume.	< string > array

## host\_initiator\_instance

Name	Description	Schema
<b>active_sessions</b> <i>optional</i>	Array of active login session between an initiator and a target port.	< <a href="#">active_session_instance</a> > array
<b>chap_mutual_username</b> <i>optional</i>	Username for CHAP authentication. This value must be 1 to 64 UTF-8 characters. CHAP username is required when the cluster CHAP mode is mutual authentication. <b>Length : 1 - 64</b>	string



Name	Description	Schema
<b>chap_single_username</b> <i>optional</i>	Username for CHAP authentication. This value must be 1 to 64 UTF-8 characters. CHAP username is required when the cluster CHAP mode is mutual authentication. <b>Length : 1 - 64</b>	string
<b>port_name</b> <i>optional</i>	IQN name aka address.	string
<b>port_type</b> <i>optional</i>		<a href="#">InitiatorProtocolTypeEnum</a>
<b>port_type_l10n</b> <i>optional</i>	Localized message string corresponding to port_type	string

## host\_instance

This resource type has queryable associations from `host_group`, `import_host_system`, `host_volume_mapping`, `host_virtual_volume_mapping`

Name	Description	Schema
<b>description</b> <i>optional</i>	A description for the host.	string
<b>host_group</b> <i>optional</i>	This is the embeddable reference form of <code>host_group_id</code> attribute.	<a href="#">host_group_instance</a>
<b>host_group_id</b> <i>optional</i>	Associated host group, if host is part of host group.	string
<b>host_initiators</b> <i>optional</i>	Filtering on the fields of this embedded resource is not supported.	< <a href="#">host_initiator_instance</a> > array
<b>host_virtual_volume_mappings</b> <i>optional</i>	This is the inverse of the resource type <code>host_virtual_volume_mapping</code> association.	< <a href="#">host_virtual_volume_mapping_instance</a> > array
<b>id</b> <i>optional</i>	Unique id of the host.	string

Name	Description	Schema
<b>import_host_system</b> <i>optional</i>	This is the embeddable reference form of import_host_system_id attribute.	<a href="#">import_host_system_instance</a>
<b>mapped_hosts</b> <i>optional</i>	This is the inverse of the resource type host_volume_mapping association.	< <a href="#">host_volume_mapping_instance</a> > array
<b>name</b> <i>optional</i>	The host name. This property supports case-insensitive filtering	string
<b>os_type</b> <i>optional</i>		<a href="#">OSTypeEnum</a>
<b>os_type_l10n</b> <i>optional</i>	Localized message string corresponding to os_type	string

## host\_modify

Name	Description	Schema
<b>add_initiators</b> <i>optional</i>	The list of initiators to be added. CHAP username and password are optional.	< <a href="#">initiator_create_modify</a> > array
<b>description</b> <i>optional</i>	An optional description for the host. The description should not be more than 256 UTF-8 characters long and should not have any unprintable characters. <b>Maximal length : 256</b>	string
<b>modify_initiators</b> <i>optional</i>	Update list of existing initiators, identified by port_name, with new CHAP usernames and/or passwords.	< <a href="#">update_initiator_in_host</a> > array
<b>name</b> <i>optional</i>	The host name. The name should not be more than 128 UTF-8 characters long and should not have any unprintable characters. <b>Maximal length : 128</b>	string
<b>remove_initiators</b> <i>optional</i>	The list of initiator port_names to be removed.	< string > array

## host\_virtual\_volume\_mapping\_instance

Virtual volume mapping details. This resource type has queryable associations from host, host\_group, virtual\_volume

Name	Description	Schema
<b>host</b> <i>optional</i>	This is the embeddable reference form of host_id attribute.	<a href="#">host_instance</a>
<b>host_group</b> <i>optional</i>	This is the embeddable reference form of host_group_id attribute.	<a href="#">host_group_instance</a>
<b>host_group_id</b> <i>optional</i>	Unique identifier of a host group attached to a virtual volume. The host_id and host_group_id cannot both be set.	string
<b>host_id</b> <i>optional</i>	Unique identifier of a host attached to a virtual volume. The host_id and host_group_id cannot both be set.	string
<b>id</b> <i>optional</i>	Unique identifier of a mapping between a host and a virtual volume.	string
<b>virtual_volume</b> <i>optional</i>	This is the embeddable reference form of virtual_volume_id attribute.	<a href="#">virtual_volume_instance</a>
<b>virtual_volume_id</b> <i>optional</i>	Unique identifier of the virtual volume to which the host is attached.	string

## host\_volume\_mapping\_instance

Details about a configured host or host group attached to a volume. The host or host group may not necessarily be connected. This resource type has queryable associations from host, host\_group, volume

Name	Description	Schema
<b>host</b> <i>optional</i>	This is the embeddable reference form of host_id attribute.	<a href="#">host_instance</a>
<b>host_group</b> <i>optional</i>	This is the embeddable reference form of host_group_id attribute.	<a href="#">host_group_instance</a>

Name	Description	Schema
<b>host_group_id</b> <i>optional</i>	Unique identifier of a host group attached to a volume. The host_id and host_group_id cannot both be set.	string
<b>host_id</b> <i>optional</i>	Unique identifier of a host attached to a volume. The host_id and host_group_id cannot both be set.	string
<b>id</b> <i>optional</i>	Unique identifier of a mapping between a host and a volume.	string
<b>logical_unit_number</b> <i>optional</i>	Logical unit number for the host volume access. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>volume</b> <i>optional</i>	This is the embeddable reference form of volume_id attribute.	<a href="#">volume_instance</a>
<b>volume_id</b> <i>optional</i>	Unique identifier of the volume to which the host is attached.	string

## import\_host\_initiator\_instance

Details about an import host initiator.

Name	Description	Schema
<b>id</b> <i>optional</i>	Unique identifier of the import host initiator.	string
<b>import_host_system_id</b> <i>optional</i>	Unique identifier of the import host system.	string
<b>iqn_or_wwn</b> <i>optional</i>	iSCSI Qualified Name (IQN) or World Wide Name (WWN) of the host initiator.	string
<b>protocol</b> <i>optional</i>		<a href="#">HostInitiatorProtocolTypeEnum</a>
<b>protocol_l10n</b> <i>optional</i>	Localized message string corresponding to protocol	string

## import\_host\_system\_create

Required parameters for adding an import host system.

Name	Description	Schema
<b>agent_address</b> <i>required</i>	Hostname or IPv4 address of the import host system.	string
<b>agent_port</b> <i>required</i>	TCP port of the import host system. <b>Minimum value</b> : 0 <b>Maximum value</b> : 65535	integer (int32)
<b>chap_mutual_password</b> <i>optional</i>	Password for mutual CHAP authentication. This password is required when the cluster is using mutual authentication CHAP mode.	string (password)
<b>chap_mutual_username</b> <i>optional</i>	Username for mutual CHAP authentication. This username is required when the cluster is using mutual authentication CHAP mode.	string
<b>chap_single_password</b> <i>optional</i>	Password for single CHAP authentication. This password is required when the cluster is using single authentication CHAP mode.	string (password)
<b>chap_single_username</b> <i>optional</i>	Username for single CHAP authentication. This username is required when the cluster is using single authentication CHAP mode.	string
<b>os_type</b> <i>required</i>		<a href="#">HAOSTypeEnum</a>
<b>password</b> <i>required</i>	Password for the specified username.	string (password)
<b>user_name</b> <i>required</i>	Username for the import host system.	string

## import\_host\_system\_instance

Details about an import host system. This resource type has queriable association from host

Name	Description	Schema
<b>agent_address</b> <i>optional</i>	Hostname or IPv4 address of the import host system.	string (ip-address)
<b>agent_api_version</b> <i>optional</i>	API version of the import host system.	string
<b>agent_port</b> <i>optional</i>	TCP port on the import host system. <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>agent_status</b> <i>optional</i>		<a href="#">HostAgentStatusEnum</a>
<b>agent_status_10n</b> <i>optional</i>	Localized message string corresponding to agent_status	string
<b>agent_type</b> <i>optional</i>		<a href="#">HostAgentTypeEnum</a>
<b>agent_type_10n</b> <i>optional</i>	Localized message string corresponding to agent_type	string
<b>agent_version</b> <i>optional</i>	Version of the import host system.	string
<b>hosts</b> <i>optional</i>	This is the inverse of the resource type host association.	< <a href="#">host_instance</a> > array
<b>id</b> <i>optional</i>	Unique identifier of the import host system.	string
<b>last_update_time</b> <i>optional</i>	Time when the import host system was last updated.	string (date-time)
<b>os_type</b> <i>optional</i>		<a href="#">HAOSTypeEnum</a>
<b>os_type_10n</b> <i>optional</i>	Localized message string corresponding to os_type	string

Name	Description	Schema
<b>os_version</b> <i>optional</i>	Operating system version of the import host system.	string
<b>user_name</b> <i>optional</i>	Username for the import host system.	string

## import\_host\_volume\_instance

Details about an import host volume.

Name	Description	Schema
<b>active_path</b> <i>optional</i>	Active path of the host volume.	<a href="#">ActivePathEnum</a>
<b>active_path_l1</b> <b>0n</b> <i>optional</i>	Localized message string corresponding to active_path	string
<b>array_identifier</b> <i>optional</i>	Unique identifier of the storage system.	string
<b>array_type</b> <i>optional</i>	Product type of the storage system.	<a href="#">ArrayTypeEnum</a>
<b>array_type_l1</b> <b>0n</b> <i>optional</i>	Localized message string corresponding to array_type	string
<b>host_system_id</b> <i>optional</i>	Unique identifier of the import host system.	string
<b>id</b> <i>optional</i>	Unique identifier of the import host volume.	string
<b>import_state</b> <i>optional</i>		<a href="#">ImportOperationStatusEnum</a>
<b>import_state_l1</b> <b>10n</b> <i>optional</i>	Localized message string corresponding to import_state	string

Name	Description	Schema
<b>is_migrating</b> <i>optional</i>	Indicates whether the import host volume is migrating.	boolean
<b>last_update_time</b> <i>optional</i>	Time when the import host volume was last updated.	string (date-time)
<b>mount_paths</b> <i>optional</i>	Mount paths on the import host system.	< string > array
<b>naa_id</b> <i>optional</i>	Unique identifier of a volume that is presented to the import host.	string
<b>name</b> <i>optional</i>	Name of the import host volume. This property supports case-insensitive filtering	string
<b>protocols</b> <i>optional</i>	Supported protocols for the import host volume.	< <a href="#">HostInitiatorProtocolTypeEnum</a> > array
<b>protocols_l10n</b> <i>optional</i>	Localized message array corresponding to protocols	< string > array
<b>size</b> <i>optional</i>	Size of the import host volume, in bytes. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>status</b> <i>optional</i>	Status of the import host volume.	<a href="#">VolumeStatusEnum</a>
<b>status_l10n</b> <i>optional</i>	Localized message string corresponding to status	string

## import\_psgroup\_instance

PS Group details. This resource type has queriable association from import\_psgroup\_volume

Name	Description	Schema
<b>description</b> <i>optional</i>	Description of the PS Group.	string



Name	Description	Schema
<b>group_addresses</b> <i>optional</i>	IP address of the PS Group, which is used for data path communication. If a management address is not configured, this address is also used for management operations.	string (ip-address)
<b>id</b> <i>optional</i>	Unique identifier of the PS Group.	string
<b>import_psgroup_volumes</b> <i>optional</i>	This is the inverse of the resource type import_psgroup_volume association.	< <a href="#">import_psgroup_volume_instance</a> > array
<b>last_update_time</b> <i>optional</i>	Time when the PS Group was last updated.	string (date-time)
<b>management_address</b> <i>optional</i>	Management address of the PS Group. This can be an IPv4 address, IPv6 address, or FQDN (Fully Qualified Domain Name).	string (ip-address)
<b>name</b> <i>optional</i>	Name of the PS Group. This property supports case-insensitive filtering	string
<b>serial_number</b> <i>optional</i>	Serial number of the PS Group.	string
<b>user_name</b> <i>optional</i>	Name used to log in to the PS Group.	string

## import\_psgroup\_schedule\_instance

Snapshot schedule of a volume

Name	Description	Schema
<b>active_date</b> <i>optional</i>	Number of days for which the snapshot schedule has been active. <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)

Name	Description	Schema
<b>end_time</b> <i>optional</i>	Time when snapshot creation ends each day, in minutes. <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>frequency</b> <i>optional</i>	Frequency at which snapshots are created, in minutes. <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>inactive_date</b> <i>optional</i>	Number of days for which the snapshot schedule has been inactive. <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>keep_count</b> <i>optional</i>	Number of snapshots to retain. <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>name</b> <i>optional</i>	Name of the snapshot schedule.	string
<b>repetition_interval</b> <i>optional</i>	Repeat interval of the snapshot schedule, in days. The value is 1 for the schedule frequencies Once and Hourly. It can be greater than 1 for the schedule frequencies Daily and Weekly. <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>start_time</b> <i>optional</i>	Time when snapshot creation begins each day, in minutes. <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>status</b> <i>optional</i>		<a href="#">ImportPsgroupScheduleStatusEnum</a>
<b>status_l10n</b> <i>optional</i>	Localized message string corresponding to status	string
<b>type</b> <i>optional</i>		<a href="#">ImportPsgroupScheduleTypeEnum</a>
<b>type_l10n</b> <i>optional</i>	Localized message string corresponding to type	string

# import\_psgroup\_volume\_import\_snapshot\_schedules\_response

Type : < [import\\_psgroup\\_schedule\\_instance](#) > array

## import\_psgroup\_volume\_instance

PS Group volume instance details. This resource type has queriable association from import\_psgroup

Name	Description	Schema
<b>block_size</b> <i>optional</i>		<a href="#">VolumeBlockSizeEnum</a>
<b>block_size_l10n</b> <i>optional</i>	Localized message string corresponding to block_size	string
<b>host_volume_ids</b> <i>optional</i>	Unique identifiers of the host volumes associated with the volume.	< string > array
<b>id</b> <i>optional</i>	Unique identifier of the volume.	string
<b>import_psgroup</b> <i>optional</i>	This is the embeddable reference form of import_psgroup_id attribute.	<a href="#">import_psgroup_instance</a>
<b>import_psgroup_id</b> <i>optional</i>	Unique identifier of the PS Group with which the volume is associated.	string
<b>importable_criteria</b> <i>optional</i>	Volume import criteria. If the value is not Ready, the volume is not importable.	<a href="#">VolumeImportableCriteriaEnum</a>
<b>importable_criteria_l10n</b> <i>optional</i>	Localized message string corresponding to importable_criteria	string
<b>is_online</b> <i>optional</i>	Indicates whether the volume is online.	boolean

Name	Description	Schema
<b>is_read_only</b> <i>optional</i>	Indicates whether the volume is read-only.	boolean
<b>migration_state</b> <i>optional</i>		ImportStatusEnum
<b>migration_state_l10n</b> <i>optional</i>	Localized message string corresponding to migration_state	string
<b>name</b> <i>optional</i>	Name of the volume. This property supports case-insensitive filtering	string
<b>size</b> <i>optional</i>	Size of the volume, in bytes. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>wwn</b> <i>optional</i>	Unique WWN of the volume.	string

## import\_session\_cancel

Name	Description	Schema
<b>force</b> <i>optional</i>	Indicates whether the cancel import session operation is a normal cancel (true) or a forced stop (false). For a forced stop, the import job terminates without rolling back in source or host down failover scenarios. <b>Default</b> : false	boolean

## import\_session\_create

Name	Description	Schema
<b>automatic_cutover</b> <i>optional</i>	Indicates whether the import session cutover is manual (true) or automatic (false). <b>Default</b> : false	boolean
<b>description</b> <i>optional</i>	Description of the import session. The name can contain a maximum of 128 unicode characters. It cannot contain unprintable characters. <b>Maximal length</b> : 128	string

Name	Description	Schema
<b>name</b> <i>required</i>	Name of the import session. The name must be unique in the PowerStore cluster and can contain a maximum of 128 unicode characters. It cannot contain special HTTP characters, unprintable characters, or white space. <b>Maximal length : 128</b>	string
<b>protection_policy_id</b> <i>optional</i>	Unique identifier of the protection policy that will be applied to an imported volume or consistency group after the import completes. Only snapshot policies are supported in an import. Once the import completes, you can add a replication policy. If you try to import a replication policy, the import job will fail.	string
<b>remote_system_id</b> <i>required</i>	Unique identifier of the storage system that contains the source volume or consistency group to be imported. You can query the source volume or consistency group object to get the identifier of the source system that the volume or consistency group are part of. Alternatively, you can use the remote_system object to get this information.	string
<b>scheduled_timestamp</b> <i>optional</i>	Date and time at which the import session is scheduled to start. The date time is specified in ISO 8601 format with the time expressed in UTC format.	string (date-time)
<b>source_resource_id</b> <i>required</i>	Unique identifier of the volume or consistency group to be imported. Refer to the following objects for more information: <ul style="list-style-type: none"> <li>* Storage Center : import_storage_center_volume,</li> <li>* VNX : import_storage_center_consistency_group</li> <li>* PS Series : import_vnx_volume, import_vnx_consistency_group</li> <li>* Unity : import_psgroup_volume</li> <li>* Unity : import_unity_volume, import_unity_consistency_group</li> </ul>	string
<b>volume_group_id</b> <i>optional</i>	Unique identifier of the volume group to which the imported volume will belong, if any.	string

## import\_session\_instance

This resource type has queriable association from remote\_system

Name	Description	Schema
<b>automatic_cut_over</b> <i>optional</i>	Indicates whether the import session cutover is manual (true) or automatic (false). <b>Default</b> : <code>false</code>	boolean
<b>average_transfer_rate</b> <i>optional</i>	Average transfer rate of a data import operation in bytes/sec over the whole copy period. Before and after the import is in the Copy_In_Progress state, this value is null. <b>Minimum value</b> : <code>0</code> <b>Maximum value</b> : <code>9223372036854775807</code>	integer (int64)
<b>current_transfer_rate</b> <i>optional</i>	Current transfer rate of a data import operation in bytes/sec. Before and after the import is in the Copy_In_Progress state, this value is null. <b>Minimum value</b> : <code>0</code> <b>Maximum value</b> : <code>9223372036854775807</code>	integer (int64)
<b>description</b> <i>optional</i>	User-specified description of the import session.	string
<b>destination_resource_id</b> <i>optional</i>	Unique identifier of the destination volume or volume group created as part of the import process.	string
<b>destination_resource_type</b> <i>optional</i>		<a href="#">ImportDestinationResourceTypeEnum</a>
<b>destination_resource_type_10n</b> <i>optional</i>	Localized message string corresponding to destination_resource_type	string
<b>error</b> <i>optional</i>		<a href="#">error_instance</a>
<b>estimated_completion_timestamp</b> <i>optional</i>	When the import is in the Copy_In_Progress state, this value indicates the estimated time at which the data copy will complete. Before the import is in the Copy_In_Progress state, the value is null.	string (date-time)
<b>id</b> <i>optional</i>	Unique identifier of the import session.	string

Name	Description	Schema
<b>last_update_timestamp</b> <i>optional</i>	Date and time when was the import was last updated. This value is updated each time the import job updates.	string (date-time)
<b>name</b> <i>optional</i>	User-specified name of the import session. This property supports case-insensitive filtering	string
<b>parent_session_id</b> <i>optional</i>	For a volume that is part of a consistency group import, this value is the session identifier of the import session. For an individual volume import, this value is null.	string
<b>progress_percentage</b> <i>optional</i>	When the import is in the Copy_In_Progress state, this value indicates the completion percent for the import. Before the import is in the Copy_In_Progress state, this value is 0. After the cutover or if there is a failure, this value is null. <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>protection_policy_id</b> <i>optional</i>	Unique identifier of the local protection policy in the PowerStore storage system that will be applied on an imported destination volume or consistency group after cutover. Only snapshot policies are supported in an import. Once the import completes, you can add a replication policy.	string
<b>remote_system</b> <i>optional</i>	This is the embeddable reference form of remote_system_id attribute.	<a href="#">remote_system_instance</a>
<b>remote_system_id</b> <i>optional</i>	Unique identifier of the storage system that contains the source volume or consistency group to be imported.	string
<b>scheduled_timestamp</b> <i>optional</i>	Date and time at which the import session is scheduled to run. The date is specified in ISO 8601 format with the time expressed in UTC format.	string (date-time)
<b>source_resource_id</b> <i>optional</i>	Unique identifier of the volume or consistency group to be imported.	string
<b>state</b> <i>optional</i>		<a href="#">ImportSessionStateEnum</a>

Name	Description	Schema
<b>state_l10n</b> <i>optional</i>	Localized message string corresponding to state	string
<b>volume_group_id</b> <i>optional</i>	Unique identifier of the volume group to which the destination volume will be added, if any.	string

## import\_session\_modify

Name	Description	Schema
<b>scheduled_timestamp</b> <i>optional</i>	Indicates the new date and time at which the import session is scheduled to run. The date is specified in ISO 8601 format with time expressed in UTC format.	string (date-time)

## import\_storage\_center\_consistency\_group\_import\_snapshot\_profiles\_response

Type : < [import\\_storage\\_center\\_snapshot\\_profile\\_instance](#) > array

## import\_storage\_center\_consistency\_group\_instance

This resource type has queriable associations from `import_storage_center_volume`, `import_storage_center`

Name	Description	Schema
<b>id</b> <i>optional</i>	Unique identifier of the SC consistency group.	string
<b>import_storage_center</b> <i>optional</i>	This is the embeddable reference form of <code>import_storage_center_id</code> attribute.	<a href="#">import_storage_center_instance</a>
<b>import_storage_center_id</b> <i>optional</i>	Unique identifier of the SC array.	string
<b>import_storage_center_volumes</b> <i>optional</i>	This is the inverse of the resource type <code>import_storage_center_volume</code> association.	< <a href="#">import_storage_center_volume_instance</a> > array



Name	Description	Schema
<b>importable_criteria</b> <i>optional</i>	Volume import criteria. If the value is not Ready, the volume is not importable.	<a href="#">CGImportableCriteriaEnum</a>
<b>importable_criteria_l10n</b> <i>optional</i>	Localized message string corresponding to importable_criteria	string
<b>name</b> <i>optional</i>	Name of the SC consistency group. This property supports case-insensitive filtering	string

## import\_storage\_center\_instance

This resource type has queriable associations from `import_storage_center_volume`, `import_storage_center_consistency_group`

Name	Description	Schema
<b>api_version</b> <i>optional</i>	API version of the SC OS (SCOS).	string
<b>id</b> <i>optional</i>	Unique identifier of the SC array that is a source storage system for import.	string
<b>import_storage_center_consistency_groups</b> <i>optional</i>	This is the inverse of the resource type <code>import_storage_center_consistency_group</code> association.	< <a href="#">import_storage_center_consistency_group_instance</a> > array
<b>import_storage_center_volumes</b> <i>optional</i>	This is the inverse of the resource type <code>import_storage_center_volume</code> association.	< <a href="#">import_storage_center_volume_instance</a> > array
<b>last_update_time</b> <i>optional</i>	Timestamp at which the SC array details were last updated. This includes the information about the array and its importable volumes and consistency groups. The timestamp is updated when the SC array is created and when the importable storage resources are discovered using the <code>discover_importable_resources</code> action.	string (date-time)

Name	Description	Schema
<b>management_address</b> <i>optional</i>	Management address to use for communicating with the SC array. The address can be an IPv4 address, IPv6 address, or FQDN (Fully Qualified Domain Name).	string (ip-address)
<b>model</b> <i>optional</i>	Model name of the SC array.	string
<b>name</b> <i>optional</i>	Name of the SC array. This property supports case-insensitive filtering	string
<b>serial_number</b> <i>optional</i>	Serial number of the SC array. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>status</b> <i>optional</i>		<a href="#">SCStatusEnum</a>
<b>status_l10n</b> <i>optional</i>	Localized message string corresponding to status	string
<b>user_name</b> <i>optional</i>	User account name used to communicate with the SC array.	string

## import\_storage\_center\_snapshot\_profile\_instance

Snapshot profile.

Name	Description	Schema
<b>description</b> <i>optional</i>	Description of the snapshot profile.	string
<b>id</b> <i>optional</i>	Unique identifier of the snapshot profile.	string
<b>name</b> <i>optional</i>	Name of the snapshot profile.	string
<b>rules</b> <i>optional</i>		< <a href="#">sc_profile_rule_instance</a> > array

Name	Description	Schema
<b>type</b> <i>optional</i>	Type of the snapshot profile.	<a href="#">ScSnapshotProfileTypeEnum</a>
<b>type_l10n</b> <i>optional</i>	Localized message string corresponding to type	string

## import\_storage\_center\_volume\_import\_snapshot\_profiles\_response

Type : < [import\\_storage\\_center\\_snapshot\\_profile\\_instance](#) > array

## import\_storage\_center\_volume\_instance

This resource type has queriable associations from [import\\_storage\\_center](#), [import\\_storage\\_center\\_consistency\\_group](#)

Name	Description	Schema
<b>health</b> <i>optional</i>		<a href="#">SCStatusEnum</a>
<b>health_l10n</b> <i>optional</i>	Localized message string corresponding to health	string
<b>host_volume_ids</b> <i>optional</i>	List of host volume identifiers that correspond to SC volumes.	< string > array
<b>id</b> <i>optional</i>	Unique identifier of the SC volume.	string
<b>import_storage_center</b> <i>optional</i>	This is the embeddable reference form of <a href="#">import_storage_center_id</a> attribute.	<a href="#">import_storage_center_instance</a>
<b>import_storage_center_consistency_group</b> <i>optional</i>	This is the embeddable reference form of <a href="#">import_storage_center_consistency_group_id</a> attribute.	<a href="#">import_storage_center_consistency_group_instance</a>

Name	Description	Schema
<b>import_storage_center_consistency_group_id</b> <i>optional</i>	Unique identifier of an SC consistency group, if the volume is part of one consistency group only. If the volume is part of multiple consistency groups, the attribute is empty.	string
<b>import_storage_center_consistency_group_names</b> <i>optional</i>	Names of the consistency groups of which the volume is a member, if this volume is in multiple consistency groups.	< string > array
<b>import_storage_center_id</b> <i>optional</i>	Unique identifier of the SC array where the volume resides.	string
<b>importable_criteria</b> <i>optional</i>	Volume import criteria. If the value is not Ready, the volume is not importable.	<a href="#">VolumeImportableCriteriaEnum</a>
<b>importable_criteria_l10n</b> <i>optional</i>	Localized message string corresponding to importable_criteria	string
<b>is_active</b> <i>optional</i>	Indicates whether the SC volume is active on any controller. Only volumes that are active are importable.	boolean
<b>is_read_only</b> <i>optional</i>	Indicates whether the volume is read-only.	boolean
<b>migration_state</b> <i>optional</i>		<a href="#">MigrationStateEnum</a>
<b>migration_state_l10n</b> <i>optional</i>	Localized message string corresponding to migration_state	string
<b>name</b> <i>optional</i>	Name of the SC volume. This property supports case-insensitive filtering	string
<b>size</b> <i>optional</i>	Size of the SC volume, in bytes. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)

Name	Description	Schema
<b>wwn</b> <i>optional</i>	Device identifier presented to the server to which the volume is mapped.	string

## import\_unity\_consistency\_group\_import\_snapshot\_schedules\_response

Type : < [import\\_unity\\_snapshot\\_schedule\\_instance](#) > array

## import\_unity\_consistency\_group\_instance

This resource type has queriable associations from import\_unity\_volume, import\_unity

Name	Description	Schema
<b>id</b> <i>optional</i>	Unique identifier of the Unity consistency group.	string
<b>import_unity</b> <i>optional</i>	This is the embeddable reference form of import_unity_id attribute.	<a href="#">import_unity_instance</a>
<b>import_unity_id</b> <i>optional</i>	Unique identifier of the Unity storage system where the consistency group resides.	string
<b>import_unity_volumes</b> <i>optional</i>	This is the inverse of the resource type import_unity_volume association.	< <a href="#">import_unity_volume_instance</a> > array
<b>importable_criteria</b> <i>optional</i>	Consistency group import criteria.	<a href="#">CGImportableCriteriaEnum</a>
<b>importable_criteria_l10n</b> <i>optional</i>	Localized message string corresponding to importable_criteria	string
<b>name</b> <i>optional</i>	Name of the consistency group. This property supports case-insensitive filtering	string

## import\_unity\_instance

This resource type has queriable associations from import\_unity\_volume, import\_unity\_consistency\_group

Name	Description	Schema
<b>api_version</b> <i>optional</i>	Version of the API that the Unity storage system supports.	string
<b>health</b> <i>optional</i>		<a href="#">UnityHealthEnum</a>
<b>health_l10n</b> <i>optional</i>	Localized message string corresponding to health	string
<b>id</b> <i>optional</i>	Unique identifier of the Unity storage system that is a source storage system for import. This is the serial number of the storage system.	string
<b>import_unity_consistency_groups</b> <i>optional</i>	This is the inverse of the resource type import_unity_consistency_group association.	< <a href="#">import_unity_consistency_group_instance</a> > array
<b>import_unity_volumes</b> <i>optional</i>	This is the inverse of the resource type import_unity_volume association.	< <a href="#">import_unity_volume_instance</a> > array
<b>last_updated_timestamp</b> <i>optional</i>	Date and time when the Unity storage system details were last updated. These details include the Unity storage system and information about its importable volumes and consistency groups. The timestamp is updated when the Unity storage system is created and whenever the importable volumes and consistency groups are discovered.	string (date-time)
<b>management_address</b> <i>optional</i>	Management address to use for communicating with the Unity storage system. The address can be an IPv4 address, IPv6 address, or FQDN (Fully Qualified Domain Name).	string (ip-address)
<b>model</b> <i>optional</i>	Model name of the Unity storage system.	string
<b>name</b> <i>optional</i>	Name of the Unity storage system. This property supports case-insensitive filtering	string
<b>serial_number</b> <i>optional</i>	Serial number of the system	string

Name	Description	Schema
<b>software_version</b> <i>optional</i>	Software version of the Unity storage system.	string
<b>user_name</b> <i>optional</i>	User account name used to communicate with the Unity storage system.	string

## import\_unity\_snapshot\_schedule\_instance

Name	Description	Schema
<b>id</b> <i>optional</i>	Unique identifier of the Unity snapshot schedule.	string
<b>is_default</b> <i>optional</i>	Indicates whether the Unity snapshot schedule is the default snapshot schedule.	boolean
<b>is_modified</b> <i>optional</i>	Indicates whether the Unity snapshot schedule has been modified.	boolean
<b>name</b> <i>optional</i>	Name of the Unity snapshot schedule.	string
<b>rules</b> <i>optional</i>		< <a href="#">import_unity_snapshot_schedule_rule_instance</a> > array
<b>version</b> <i>optional</i>	Version of the snapshot schedule.	<a href="#">UnityScheduleVersionEnum</a>
<b>version_l10n</b> <i>optional</i>	Localized message string corresponding to version	string

## import\_unity\_snapshot\_schedule\_rule\_instance

Name	Description	Schema
<b>days_of_month</b> <i>optional</i>	Days of the month for which the snapshot schedule rule applies. [1..31].	< integer > array

Name	Description	Schema
<b>days_of_week</b> <i>optional</i>	Days of the week for which the snapshot schedule rule applies.	< <a href="#">UnityDayOfWeekEnum</a> > array
<b>days_of_week_l10n</b> <i>optional</i>	Localized message array corresponding to days_of_week	< string > array
<b>hours</b> <i>optional</i>	Hourly frequency for the snapshot schedule rule.[0..23].	< integer > array
<b>id</b> <i>optional</i>	Unique identifier of the snapshot schedule rule .	string
<b>interval</b> <i>optional</i>	Number of days or hours between snaps, depending on the rule type. [1..31]. <b>Minimum value : 1</b> <b>Maximum value : 31</b>	integer (int32)
<b>is_auto_delete</b> <i>optional</i>	Indicates whether the system can automatically delete the snapshot based on pool automatic-deletion thresholds.	boolean
<b>minute</b> <i>optional</i>	Snapshot schedule frequency.[0..59]. <b>Minimum value : 0</b> <b>Maximum value : 59</b>	integer (int32)
<b>retention_time</b> <i>optional</i>	(Applies when the value of the isAutoDelete attribute is false.) Period of time for which to keep the snapshot, in seconds. <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>type</b> <i>optional</i>	Type of the snapshot schedule rule.	<a href="#">UnityScheduleTypeEnum</a>
<b>type_l10n</b> <i>optional</i>	Localized message string corresponding to type	string

## import\_unity\_volume\_import\_snapshot\_schedules\_response

Type : < [import\\_unity\\_snapshot\\_schedule\\_instance](#) > array



# import\_unity\_volume\_instance

This resource type has queryable associations from import\_unity, import\_unity\_consistency\_group

Name	Description	Schema
<b>health</b> <i>optional</i>		<a href="#">UnityHealthEnum</a>
<b>health_l10n</b> <i>optional</i>	Localized message string corresponding to health	string
<b>host_volume_ids</b> <i>optional</i>	List of host volume identifiers that correspond to Unity volumes.	< string > array
<b>id</b> <i>optional</i>	Unique identifier of the Unity volume.	string
<b>import_unity</b> <i>optional</i>	This is the embeddable reference form of import_unity_id attribute.	<a href="#">import_unity_instance</a>
<b>import_unity_consistency_group</b> <i>optional</i>	This is the embeddable reference form of import_unity_consistency_group_id attribute.	<a href="#">import_unity_consistency_group_instance</a>
<b>import_unity_consistency_group_id</b> <i>optional</i>	Unique identifier of the consistency group to which the Unity volume belongs. This value is null if the volume does not belong to a consistency group.	string
<b>import_unity_id</b> <i>optional</i>	Unique identifier of the Unity storage system to which the Unity volume belongs.	string
<b>importable_criteria</b> <i>optional</i>	Volume import criteria. If the value is not Ready, the volume is not importable and the value specifies the reason it is not importable.	<a href="#">VolumeImportableCriteriaEnum</a>
<b>importable_criteria_l10n</b> <i>optional</i>	Localized message string corresponding to importable_criteria	string

Name	Description	Schema
<b>is_replication_destination</b> <i>optional</i>	Indicates whether the Unity volume is a replication destination.	boolean
<b>is_thin_clone</b> <i>optional</i>	Indicates whether the Unity volume is a thin clone.	boolean
<b>migration_state</b> <i>optional</i>		<a href="#">UnityVolumeMigrationStateEnum</a>
<b>migration_state_l10n</b> <i>optional</i>	Localized message string corresponding to migration_state	string
<b>name</b> <i>optional</i>	Name of the Unity volume. This property supports case-insensitive filtering	string
<b>size</b> <i>optional</i>	Size of the Unity volume, in bytes. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>type</b> <i>optional</i>		<a href="#">UnityVolumeTypeEnum</a>
<b>type_l10n</b> <i>optional</i>	Localized message string corresponding to type	string
<b>wwn</b> <i>optional</i>	World Wide Name (WWN) of the Unity volume.	string

## import\_vnx\_array\_instance

This resource type has querable associations from `import_vnx_volume`, `import_vnx_consistency_group`

Name	Description	Schema
<b>alternate_management_address</b> <i>optional</i>	Alternate management address for communicating with the VNX storage system. This is usually the address of Storage Processor B (SPB). The address can be an IPv4 address, IPv6 address, or FQDN (Fully Qualified Domain Name).	string (ip-address)

Name	Description	Schema
<b>id</b> <i>optional</i>	Unique identifier of the VNX storage system.	string
<b>import_vnx_consistency_groups</b> <i>optional</i>	This is the inverse of the resource type import_vnx_consistency_group association.	< <a href="#">import_vnx_consistency_group_instance</a> > array
<b>import_vnx_volumes</b> <i>optional</i>	This is the inverse of the resource type import_vnx_volume association.	< <a href="#">import_vnx_volume_instance</a> > array
<b>is_faulted</b> <i>optional</i>	Indicates whether the VNX storage system is faulted.	boolean
<b>last_updated_timestamp</b> <i>optional</i>	Timestamp at which the VNX storage system details were last updated. These details include information about the VNX storage system and its importable volumes and consistency groups. The timestamp is updated when the VNX storage system is created and when the importable storage resources are discovered using the discover action.	string (date-time)
<b>management_address</b> <i>optional</i>	Management address for communicating with the VNX storage system. This is usually the address of Storage Processor A (SPA). The address can be an IPv4 address, IPv6 address, or FQDN (Fully Qualified Domain Name).	string (ip-address)
<b>model</b> <i>optional</i>	Model name of the VNX storage system.	string
<b>name</b> <i>optional</i>	Name of the VNX storage system. This property supports case-insensitive filtering	string
<b>serial_number</b> <i>optional</i>	Serial number of the VNX storage system.	string
<b>software_version</b> <i>optional</i>	The software version of the block operating environment of the VNX storage system.	string
<b>user_name</b> <i>optional</i>	User account name used to communicate with the VNX storage system.	string

# import\_vnx\_consistency\_group\_instance

This resource type has queryable associations from import\_vnx\_volume, import\_vnx\_array

Name	Description	Schema
<b>id</b> <i>optional</i>	Unique identifier of the VNX consistency group.	string
<b>import_vnx_array</b> <i>optional</i>	This is the embeddable reference form of import_vnx_array_id attribute.	<a href="#">import_vnx_array_instance</a>
<b>import_vnx_array_id</b> <i>optional</i>	Unique identifier of the VNX storage system where the consistency group exists.	string
<b>import_vnx_volumes</b> <i>optional</i>	This is the inverse of the resource type import_vnx_volume association.	< <a href="#">import_vnx_volume_instance</a> > array
<b>importable_criteria</b> <i>optional</i>		<a href="#">CGImportableCriteriaEnum</a>
<b>importable_criteria_l10n</b> <i>optional</i>	Localized message string corresponding to importable_criteria	string
<b>name</b> <i>optional</i>	Name of the consistency group. This property supports case-insensitive filtering	string

# import\_vnx\_volume\_instance

This resource type has queryable associations from import\_vnx\_array, import\_vnx\_consistency\_group

Name	Description	Schema
<b>health</b> <i>optional</i>		<a href="#">VnxVolumeStateEnum</a>
<b>health_l10n</b> <i>optional</i>	Localized message string corresponding to health	string

Name	Description	Schema
<b>host_volume_ids</b> <i>optional</i>	List of host volume identifiers associated with the VNX volume.	< string > array
<b>id</b> <i>optional</i>	Unique identifier of the VNX volume.	string
<b>import_vnx_array</b> <i>optional</i>	This is the embeddable reference form of import_vnx_array_id attribute.	<a href="#">import_vnx_array_instance</a>
<b>import_vnx_array_id</b> <i>optional</i>	Unique identifier of the VNX storage system where the volume exists.	string
<b>import_vnx_consistency_group</b> <i>optional</i>	This is the embeddable reference form of import_vnx_consistency_group_id attribute.	<a href="#">import_vnx_consistency_group_instance</a>
<b>import_vnx_consistency_group_id</b> <i>optional</i>	Unique identifier of the VNX consistency group, if the volume is in a consistency group.	string
<b>importable_criteria</b> <i>optional</i>		<a href="#">VolumeImportableCriteriaEnum</a>
<b>importable_criteria_l10n</b> <i>optional</i>	Localized message string corresponding to importable_criteria	string
<b>migration_state</b> <i>optional</i>		<a href="#">VnxVolumeMigrationStateEnum</a>
<b>migration_state_l10n</b> <i>optional</i>	Localized message string corresponding to migration_state	string
<b>name</b> <i>optional</i>	Name of the VNX volume. This property supports case-insensitive filtering	string

Name	Description	Schema
<b>size</b> <i>optional</i>	Size of the VNX volume in bytes. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>wwn</b> <i>optional</i>	World wide name of the VNX volume.	string

## initiator\_create\_modify

Name	Description	Schema
<b>chap_mutual_password</b> <i>optional</i>	Password for CHAP authentication. This value must be 12 to 64 UTF-8 characters. This password is not queryable. CHAP password is required when the cluster CHAP mode is mutual authentication. <b>Length</b> : 12 - 64	string (password)
<b>chap_mutual_username</b> <i>optional</i>	Username for CHAP authentication. This value must be 1 to 64 UTF-8 characters. CHAP username is required when the cluster CHAP mode is mutual authentication. <b>Length</b> : 1 - 64	string
<b>chap_single_password</b> <i>optional</i>	Password for CHAP authentication. This value must be 12 to 64 UTF-8 characters. This password is not queryable. CHAP password is required when the cluster CHAP mode is mutual authentication. <b>Length</b> : 12 - 64	string (password)
<b>chap_single_username</b> <i>optional</i>	Username for CHAP authentication. This value must be 1 to 64 UTF-8 characters. CHAP username is required when the cluster CHAP mode is mutual authentication. <b>Length</b> : 1 - 64	string
<b>port_name</b> <i>required</i>	IQN name aka address.	string
<b>port_type</b> <i>required</i>		InitiatorProtocolTypeEnum

## ip\_pool\_address\_instance

This resource type has queryable associations from network, ip\_port, appliance, node

Name	Description	Schema
<b>address</b> <i>optional</i>	IP address value, in IPv4 or IPv6 format.	string (ip-address)
<b>appliance</b> <i>optional</i>	This is the embeddable reference form of appliance_id attribute.	<a href="#">appliance_instance</a>
<b>appliance_id</b> <i>optional</i>	Unique identifier of the appliance to which the IP address belongs.	string
<b>id</b> <i>optional</i>	Unique identifier of the IP address.	string
<b>ip_port</b> <i>optional</i>	This is the embeddable reference form of ip_port_id attribute.	<a href="#">ip_port_instance</a>
<b>ip_port_id</b> <i>optional</i>	Unique identifier of the port that uses this IP address to provide access to storage network services, such as iSCSI. This attribute can be set only for an IP address used by networks of type Storage.	string
<b>network</b> <i>optional</i>	This is the embeddable reference form of network_id attribute.	<a href="#">network_instance</a>
<b>network_id</b> <i>optional</i>	Unique identifier of the network to which the IP address belongs.	string
<b>node</b> <i>optional</i>	This is the embeddable reference form of node_id attribute.	<a href="#">node_instance</a>
<b>node_id</b> <i>optional</i>	Unique identifier of the cluster node to which the IP address belongs.	string
<b>purposes</b> <i>optional</i>	IP address purposes.	< <a href="#">IpPurposeTypeEnum</a> > array
<b>purposes_l10n</b> <i>optional</i>	Localized message array corresponding to purposes	< string > array

## ip\_port\_instance

This resource type has queryable associations from ip\_pool\_address, ip\_port, bond, eth\_port, veth\_port

Name	Description	Schema
<b>available_usages</b> <i>optional</i>	Available IP port usages.	< <a href="#">IpPortUsageEnum</a> > array
<b>available_usages_l10n</b> <i>optional</i>	Localized message array corresponding to available_usages	< string > array
<b>bond</b> <i>optional</i>	This is the embeddable reference form of bond_id attribute.	<a href="#">bond_instance</a>
<b>bond_id</b> <i>optional</i>	Unique identifier of the bond on top of which the IP port is configured. If the IP port is configured on top of an Ethernet front-end port, this attribute should be empty.	string
<b>current_usages</b> <i>optional</i>	Current IP port usages.	< <a href="#">IpPortUsageEnum</a> > array
<b>current_usages_l10n</b> <i>optional</i>	Localized message array corresponding to current_usages	< string > array
<b>eth_port</b> <i>optional</i>	This is the embeddable reference form of eth_port_id attribute.	<a href="#">eth_port_instance</a>
<b>eth_port_id</b> <i>optional</i>	Unique identifier of the physical Ethernet front-end port on top of which the IP port is configured. This attribute can be set when the IP port is used by a Unified appliance. It should be empty if the IP port is used by a Unified+ appliance or if the IP port is configured on top of a bond on a Unified appliance.	string
<b>id</b> <i>optional</i>	Unique identifier of the IP port.	string
<b>ip_pool_addresses</b> <i>optional</i>	This is the inverse of the resource type ip_pool_address association.	< <a href="#">ip_pool_address_instance</a> > array
<b>partner</b> <i>optional</i>	This is the embeddable reference form of partner_id attribute.	<a href="#">ip_port_instance</a>



Name	Description	Schema
<b>partner_id</b> <i>optional</i>	Identifier of the IP port that is configured on top of physical Ethernet port or virtual Ethernet port or bond with the same physical location on the other node of the appliance. Partner ports are configured symmetrically for HA and load balancing purposes within the appliance.	string
<b>target_iqn</b> <i>optional</i>	iSCSI qualified name used by the target configured on top of the IP port initially or as a result of network scaling. If the IP port is not used by an iSCSI connection, this attribute should be empty.	string
<b>veth_port</b> <i>optional</i>	This is the embeddable reference form of veth_port_id attribute.	<a href="#">veth_port_instance</a>
<b>veth_port_id</b> <i>optional</i>	Unique identifier of the virtual Ethernet front-end port on top of which the IP port is configured. This attribute can be set when the IP port is used by a Unified+ appliance. For a Unified appliance, the value of veth_port_id should be empty.	string

## ip\_port\_modify

Name	Description	Schema
<b>add_current_usages</b> <i>optional</i>	<p>Usages to add to the current usages of an IP port. The current usages of an IP port can be extended with external replication if this usage is in the port's list of available usages. The same settings will be applied to the partner IP port.</p> <div style="border-left: 1px solid black; padding-left: 10px; margin-left: 20px;"> <p><b>WARNING</b></p> <p>Only one IP port on each node can be assigned to the External_Replication usage. Assigning another IP port to this usage will automatically unassign the currently used IP port on the same node. To unassign an IP port from being used for external replication, choose another IP port and add External_Replication to its list of current usages.</p> </div>	<p>&lt; <a href="#">IpPortUsageEnum</a></p> <p>&gt; array</p>

## job\_appliance\_forecast\_response

*Polymorphism* : Inheritance

*Discriminator* : response\_type

Name	Description	Schema
<b>high_value</b> <i>optional</i>	Estimate for the upper bound forecasted value on that particular time. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>low_value</b> <i>optional</i>	Estimate for the lower bound forecasted value on that particular time. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>mean_value</b> <i>optional</i>	Estimate for the mean forecasted value on that particular time. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>response_type</b> <i>required</i>		string
<b>timestamp</b> <i>optional</i>	Date-time of the forecast data.	string (date-time)

## job\_appliance\_time\_to\_full\_response

*Polymorphism* : Inheritance

*Discriminator* : response\_type

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Unique ID of appliance.	string
<b>end_of_forecast</b> <i>optional</i>	Timestamp of the end of the capacity forecast. If time to full estimates are null, the relevant forecast does not reach full capacity before it ends. In this case the end of the forecast can be used as a minimum for time to full.	string (date-time)
<b>response_type</b> <i>required</i>		string

Name	Description	Schema
<b>time_to_full</b> <i>optional</i>	Estimated date-time at which the forecast value will reach full capacity.	string (date-time)
<b>time_to_full_optimistic</b> <i>optional</i>	Optimistic date-time for time to full based on the lower bound of the forecast 95% confidence interval.	string (date-time)
<b>time_to_full_pessimistic</b> <i>optional</i>	Pessimistic date-time for time to full based on the upper bound of the forecast 95% confidence interval.	string (date-time)
<b>time_to_full_status</b> <i>optional</i>		<a href="#">ForecastTimeToFullStatusEnum</a>
<b>time_to_full_status_110n</b> <i>optional</i>	Localized message string corresponding to time_to_full_status	string

## job\_cluster\_forecast\_response

*Polymorphism* : Inheritance

*Discriminator* : response\_type

Name	Description	Schema
<b>high_value</b> <i>optional</i>	Estimate of the upper bound of the 95% confidence interval for the forecast value at the given timestamp. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>low_value</b> <i>optional</i>	Estimate of the lower bound of the 95% confidence interval for the forecast value at the given timestamp. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>mean_value</b> <i>optional</i>	Estimate for the mean forecast value at the given timestamp. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>response_type</b> <i>required</i>		string

Name	Description	Schema
<b>timestamp</b> <i>optional</i>	Timestamp when the forecast was performed.	string (date-time)

## job\_cluster\_time\_to\_full\_response

*Polymorphism* : Inheritance

*Discriminator* : response\_type

Name	Description	Schema
<b>cluster_id</b> <i>optional</i>	Unique ID of the cluster.	string
<b>end_of_forecast</b> <i>optional</i>	Timestamp of the end of the capacity forecast. If time to full estimates are null, the relevant forecast does not reach full capacity before it ends. In this case the end of the forecast can be used as a minimum for time to full.	string (date-time)
<b>response_type</b> <i>required</i>		string
<b>time_to_full</b> <i>optional</i>	Estimated date-time at which the forecast value will reach full capacity.	string (date-time)
<b>time_to_full_optimistic</b> <i>optional</i>	Optimistic date-time for time to full based on the lower bound of the forecast 95% confidence interval.	string (date-time)
<b>time_to_full_pessimistic</b> <i>optional</i>	Pessimistic date-time for time to full based on the upper bound of the forecast 95% confidence interval.	string (date-time)
<b>time_to_full_status</b> <i>optional</i>		<a href="#">ForecastTimeToFull StatusEnum</a>
<b>time_to_full_status_l10n</b> <i>optional</i>	Localized message corresponding to time_to_full_status	string

## job\_create\_response

Create response for an operation.

*Polymorphism* : Inheritance

*Discriminator* : response\_type

Name	Description	Schema
<b>id</b> <i>optional</i>	Unique identifier of the new instance created.	string
<b>response_type</b> <i>required</i>		string

## job\_error\_response

Error response for an operation. Contains an array of localized messages.

*Polymorphism* : Inheritance

*Discriminator* : response\_type

Name	Schema
<b>messages</b> <i>optional</i>	< <a href="#">error_message</a> > array
<b>response_type</b> <i>required</i>	string

## job\_file\_system\_clone\_response

File system clone created.

*Polymorphism* : Inheritance

*Discriminator* : response\_type

Name	Description	Schema
<b>id</b> <i>optional</i>	The id of the created clone.	string
<b>response_type</b> <i>required</i>		string

## job\_file\_system\_restore\_response

File system backup snapshot created.

*Polymorphism* : Inheritance

*Discriminator* : response\_type

Name	Description	Schema
<b>id</b> <i>optional</i>	The id of the created snapshot.	string
<b>response_type</b> <i>required</i>		string

## job\_file\_system\_snapshot\_response

Snapshot file system created.

*Polymorphism* : Inheritance

*Discriminator* : response\_type

Name	Description	Schema
<b>id</b> <i>optional</i>	The id of the created snapshot.	string
<b>response_type</b> <i>required</i>		string

## job\_instance

Information about the job. This resource type has queriable associations from job

Name	Description	Schema
<b>children</b> <i>optional</i>	This is the inverse of the resource type job association.	< <a href="#">job_instance</a> > array
<b>description_l1</b> <b>On</b> <i>optional</i>	Description of the job.	string
<b>end_time</b> <i>optional</i>	Date and time when the job execution completed.	string (date-time)
<b>estimated_completion_time</b> <i>optional</i>	Estimated completion date and time.	string (date-time)

Name	Description	Schema
<b>id</b> <i>optional</i>	Unique identifier of the job.	string
<b>leafs</b> <i>optional</i>	This is the inverse of the resource type job association.	< <a href="#">job_instance</a> > array
<b>parent</b> <i>optional</i>	This is the embeddable reference form of parent_id attribute.	<a href="#">job_instance</a>
<b>parent_id</b> <i>optional</i>	Unique identifier of the parent job, if applicable.	string
<b>progress_percentage</b> <i>optional</i>	Percent complete of the job. <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>resource_action</b> <i>optional</i>		<a href="#">ResourceActionEnum</a>
<b>resource_action_l10n</b> <i>optional</i>	Localized message string corresponding to resource_action	string
<b>resource_id</b> <i>optional</i>	Unique identifier of the resource on which the job is operating.	string
<b>resource_name</b> <i>optional</i>	Name of the resource on which the job is operating. This property supports case-insensitive filtering	string
<b>resource_type</b> <i>optional</i>		<a href="#">ResourceTypeEnum</a>
<b>resource_type_l10n</b> <i>optional</i>	Localized message string corresponding to resource_type	string
<b>response_body</b> <i>optional</i>		<a href="#">base_response</a>

Name	Description	Schema
<b>root</b> <i>optional</i>	This is the embeddable reference form of root_id attribute.	<a href="#">job_instance</a>
<b>root_id</b> <i>optional</i>	Unique identifier of the root job, if applicable. The root job is the job at the top of the parent hierarchy.	string
<b>start_time</b> <i>optional</i>	Date and time when the job execution started.	string (date-time)
<b>state</b> <i>optional</i>		<a href="#">JobStateEnum</a>
<b>state_l10n</b> <i>optional</i>	Localized message string corresponding to state	string
<b>step_order</b> <i>optional</i>	Order of a given job step with respect to its siblings within the job hierarchy. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>user</b> <i>optional</i>	Name of the user associated with the job.	string

## job\_job\_response

Job response for an asynchronous request. The response to any asynchronous request that does not fail immediately.

*Polymorphism* : Inheritance

*Discriminator* : response\_type

Name	Description	Schema
<b>id</b> <i>optional</i>	The id of the job created by the request.	string
<b>response_type</b> <i>required</i>		string

## job\_keystore\_archive\_regenerate\_response

Success response body.

*Polymorphism* : Inheritance



*Discriminator* : response\_type

Name	Description	Schema
<b>download_uri</b> <i>optional</i>	A Uniform Resource Identifier which can be used in a subsequent GET request to download the keystore backup archive file.	string
<b>response_type</b> <i>required</i>		string

## job\_migration\_recommendation\_create\_migration\_sessions\_response

*Polymorphism* : Inheritance

*Discriminator* : response\_type

Name	Description	Schema
<b>migration_session_ids</b> <i>optional</i>	ID of migration sessions created for the recommendation.	< string > array
<b>rescan_host_list</b> <i>optional</i>	IDs of attached hosts that require a rescan to ensure accessibility of migrated storage objects after migrations complete.	< string > array
<b>response_type</b> <i>required</i>		string

## job\_migration\_session\_create\_response

The response for the create migration operation.

*Polymorphism* : Inheritance

*Discriminator* : response\_type

Name	Description	Schema
<b>id</b> <i>optional</i>	Identifier of the migration_session object.	string
<b>rescan_host_ids</b> <i>optional</i>	List of hosts that be rescanned before a migration session can proceed.	< string > array

Name	Description	Schema
<b>response_type</b> <i>required</i>		string

## job\_response

Job response for an asynchronous request. The response to any asynchronous request that does not fail immediately.

Name	Description	Schema
<b>id</b> <i>optional</i>	The id of the job created by the request.	string

## job\_virtual\_machine\_snapshot\_response

The response to a virtual\_machine snapshot request.

*Polymorphism* : Inheritance

*Discriminator* : response\_type

Name	Description	Schema
<b>id</b> <i>optional</i>	Unique id of the new snapshot.	string
<b>response_type</b> <i>required</i>		string

## job\_volume\_clone\_response

Unique identifier of the new clone volume.

*Polymorphism* : Inheritance

*Discriminator* : response\_type

Name	Schema
<b>id</b> <i>optional</i>	string
<b>response_type</b> <i>required</i>	string

## job\_volume\_group\_clone\_response

Response for volume group clone action

*Polymorphism* : Inheritance

*Discriminator* : response\_type

Name	Description	Schema
<b>id</b> <i>optional</i>	Unique identifier of the new instance created.	string
<b>response_type</b> <i>required</i>		string

## job\_volume\_group\_refresh\_response

volume group refresh response.

*Polymorphism* : Inheritance

*Discriminator* : response\_type

Name	Description	Schema
<b>backup_snaps</b> <b>hot_id</b> <i>optional</i>	Unique identifier of the backup snapshot set. This parameter will not be available if the <b>create_backup_snap</b> flag was set to false.	string
<b>response_type</b> <i>required</i>		string

## job\_volume\_group\_restore\_response

volume group restore response.

*Polymorphism* : Inheritance

*Discriminator* : response\_type

Name	Description	Schema
<b>backup_snaps</b> <b>hot_id</b> <i>optional</i>	Unique identifier of the backup snapshot set. This parameter will not be available if the <b>create_backup_snap</b> was set to false.	string
<b>response_type</b> <i>required</i>		string

## job\_volume\_group\_snapshot\_response

Unique identifier of the new snapshot volume.

*Polymorphism* : Inheritance

*Discriminator* : response\_type

Name	Schema
<b>id</b> <i>optional</i>	string
<b>response_type</b> <i>required</i>	string

## job\_volume\_refresh\_response

Unique identifier of the backup snapshot if one is created.

*Polymorphism* : Inheritance

*Discriminator* : response\_type

Name	Schema
<b>backup_snapshot_id</b> <i>optional</i>	string
<b>response_type</b> <i>required</i>	string

## job\_volume\_restore\_response

Unique identifier of the backup snapshot if one is created.

*Polymorphism* : Inheritance

*Discriminator* : response\_type

Name	Schema
<b>backup_snapshot_id</b> <i>optional</i>	string
<b>response_type</b> <i>required</i>	string

## job\_volume\_snapshot\_response

Unique identifier of the new snapshot volume.

*Polymorphism* : Inheritance

*Discriminator* : response\_type

Name	Schema
<b>id</b> <i>optional</i>	string
<b>response_type</b> <i>required</i>	string

## job\_vvol\_error\_response

*Polymorphism* : Inheritance

*Discriminator* : response\_type

Name	Description	Schema
<b>description</b> <i>optional</i>		string
<b>error_code</b> <i>optional</i>	<b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>response_type</b> <i>required</i>		string

## keystore\_archive\_instance

A keystore archive file.

Name	Description	Schema
<b>data</b> <i>optional</i>	A keystore archive file which includes the individual keystore backup files from each appliance in the cluster.	string (binary)

## keystore\_archive\_regenerate\_response

Success response body.

Name	Description	Schema
<b>download_uri</b> <i>optional</i>	A Uniform Resource Identifier which can be used in a subsequent GET request to download the keystore backup archive file.	string

## license\_instance

Software license information for the cluster.

Name	Description	Schema
<b>activation_file_content</b> <i>optional</i>	The content of the license activation file to send to the DellEMC Software Licensing Central to retrieve the software license for the cluster.	string
<b>id</b> <i>optional</i>	Unique identifier of the cluster license.	string
<b>is_licensed</b> <i>optional</i>	Whether or not the cluster currently has a valid license.	boolean
<b>trial_expiration_timestamp</b> <i>optional</i>	If not currently licensed, the date the trial period expires. If the trial period expires, new provisioning operations will not be allowed.	string (date-time)

## local\_user\_create

Parameters for creating a local user.

Name	Description	Schema
<b>name</b> <i>required</i>	Name of the new local user account to be created. The name value can be 1 to 64 UTF-8 characters long, and may only use alphanumeric characters. Dot(.) is the only special character allowed.	string
<b>password</b> <i>required</i>	Password for the new local user account to be created. The password value can be 8 to 40 UTF-8 characters long, and include as a minimum one uppercase character, one lowercase character, one numeric character, and one special character from this list [!,@#\$\$%^*_>_~].	string (password)

Name	Description	Schema
<b>role_id</b> <i>required</i>	The unique identifier of the role to which the new local user will be mapped. Where role_id "1" is for Administrator, "2" is for Storage Administrator, "3" is for Operator, "4" is for VM Administrator and "5" is for Security Administrator roles.	string

## local\_user\_instance

Information about a local user.

Name	Description	Schema
<b>id</b> <i>optional</i>	Unique identifier of the local user account.	string
<b>is_built_in</b> <i>optional</i>	Whether the user account is built-in or not.	boolean
<b>is_default_password</b> <i>optional</i>	Whether the user account has a default password or not. Only applies to default user accounts.	boolean
<b>is_locked</b> <i>optional</i>	Whether the user account is locked or not. Defaults to false at creation time.	boolean
<b>name</b> <i>optional</i>	Name of the local user account.	string
<b>role_id</b> <i>optional</i>	Unique identifier of the role local user account is mapped to.	string

## local\_user\_modify

Name	Description	Schema
<b>current_password</b> <i>optional</i>	Current password of the local user. Any local user can change his own password by providing current_password along with the new password.	string (password)
<b>is_locked</b> <i>optional</i>	Lock or unlock the local user account. Local user with administration/security administration role can lock or unlock any other local user account. You cannot lock an account you are currently logged-in to.	boolean

Name	Description	Schema
<b>password</b> <i>optional</i>	New password of the local user. Local user with administrator or security administrator role can reset the password of other local user accounts without providing the current password. You cannot reset the password of the account you are currently logged-in to.	string (password)
<b>role_id</b> <i>optional</i>	The unique identifier of the new role to which the local user has to be mapped. Where role_id "1" is for Administrator, "2" is for Storage Administrator, "3" is for Operator, "4" is for VM Administrator and "5" is for Security Administrator. A local user with either an administration or a security administration role can change the role of any other local user. You cannot change the role of the account you are currently logged-in to.	string

## location\_history\_instance

Storage resource location history. All entries are kept indefinitely and are removed when the resource object is deleted.

Name	Description	Schema
<b>from_appliance_id</b> <i>optional</i>	Unique identifier of the appliance from which the volume was relocated.	string
<b>migrated_on</b> <i>optional</i>	Time when the storage resource location changed.	string (date-time)
<b>reason</b> <i>optional</i>		<a href="#">LocationHistoryReasonEnum</a>
<b>reason_message</b> <i>optional</i>	Localized message string corresponding to reason	string
<b>to_appliance_id</b> <i>optional</i>	Unique identifier of the appliance to which the volume was relocated.	string

## login\_session\_instance



Name	Description	Schema
<b>id</b> <i>optional</i>	Unique identifier of the login session.	string
<b>idle_timeout</b> <i>optional</i>	Remaining idle time until the session will expire, in seconds. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>is_built_in_user</b> <i>optional</i>	Indicates whether the logged-in user is predefined.	boolean
<b>is_password_change_required</b> <i>optional</i>	Indicates whether the logged-in user requires a password change.	boolean
<b>role_ids</b> <i>optional</i>	Roles to which the logged-in user is mapped.	< string > array
<b>user</b> <i>optional</i>	Fully qualified user account name being used to log in.	string

## maintenance\_window\_instance

This resource type has queryable association from appliance

Name	Description	Schema
<b>appliance</b> <i>optional</i>	This is the embeddable reference form of appliance_id attribute.	<a href="#">appliance_instance</a>
<b>appliance_id</b> <i>optional</i>	Appliance id on which this maintenance window is configured.	string
<b>end_time</b> <i>optional</i>	Time when the maintenance window will close (or did close).	string (date-time)
<b>id</b> <i>optional</i>	Unique identifier of the maintenance window.	string
<b>is_enabled</b> <i>optional</i>	Whether the maintenance window is active.	boolean

## maintenance\_window\_modify

Name	Description	Schema
<b>end_offset</b> <i>optional</i>	Number of seconds from the current timestamp the maintenance window will expire. This value is required if is_enabled is passed as true, and may not be more than 172800 (48 hours). <b>Minimum value :</b> 0 <b>Maximum value :</b> 172800	integer (int32)
<b>is_enabled</b> <i>optional</i>	Activate or deactivate the window for one appliance.	boolean

## member\_certificate\_instance

Embedded member certificate in x509\_certificate.

Name	Description	Schema
<b>certificate</b> <i>optional</i>	Base64 encoded certificate without any line breaks.	string
<b>depth</b> <i>optional</i>	Depth indicates the position of this member certificate in the X509 Certificate chain. End-entity certificate will always have a depth of 1, which is the minimum value for depth. The depth of direct issuer certificate will be incremented by 1 until reaching the root certificate. Root certificate should have the largest depth for the certificate chain. <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>issuer</b> <i>optional</i>	Distinguished name of the certificate issuer.	string
<b>key_length</b> <i>optional</i>	Private key length. <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>public_key_algorithm</b> <i>optional</i>	Public key algorithm used to generate the key pair.	string
<b>serial_number</b> <i>optional</i>	Certificate serial number.	string

Name	Description	Schema
<b>signature_algorithm</b> <i>optional</i>	Certificate signature algorithm.	string
<b>subject</b> <i>optional</i>	Certificate subject or so called distinguished name.	string
<b>subject_alternative_names</b> <i>optional</i>	Additional DNS names or IP addresses in the x509_certificate.	< string > array
<b>thumbprint</b> <i>optional</i>	Hash value of the certificate.	string
<b>thumbprint_algorithm</b> <i>optional</i>		<a href="#">ThumbprintAlgorithmEnum</a>
<b>thumbprint_algorithm_l10n</b> <i>optional</i>	Localized message string corresponding to thumbprint_algorithm	string
<b>valid_from</b> <i>optional</i>	Date and time when the certificate becomes valid.	string (date-time)
<b>valid_to</b> <i>optional</i>	Date and time when the certificate will expire.	string (date-time)

## metrics\_generate

Metrics for specified entity

Name	Description	Schema
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_id</b> <i>required</i>	Identifier for specific entity.	string
<b>interval</b> <i>optional</i>		<a href="#">MetricsIntervalEnum</a>

## metrics\_generate\_response

Response will be just an array of one of the child of this definition

Name	Description	Schema
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string

## migration\_recommendation\_action

A recommended migration action.

Name	Description	Schema
<b>action_state</b> <i>required</i>		<a href="#">MigrationRecommendationActionStateEnum</a>
<b>action_state_l10n</b> <i>optional</i>	Localized message string corresponding to action_state	string
<b>cost</b> <i>required</i>	Unitless value describing estimated cost to perform relative to other migration actions. <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>dst_appliance_id</b> <i>required</i>	ID of appliance that is the destination for this migration action.	string
<b>host_connectivity_to_destination</b> <i>required</i>	Whether all hosts for the migrating resource have connectivity to the destination appliance.	boolean
<b>migration_primary_resource_type</b> <i>required</i>		<a href="#">MigrationRecommendationPrimaryResourceTypeEnum</a>

Name	Description	Schema
<b>migration_primary_resource_type_l10n</b> <i>optional</i>	Localized message string corresponding to migration_primary_resource_type	string
<b>migration_reason</b> <i>required</i>		<a href="#">MigrationRecommendationReasonEnum</a>
<b>migration_reason_l10n</b> <i>optional</i>	Localized message string corresponding to migration_reason	string
<b>primary_id</b> <i>required</i>	Unique ID of the primary object.	string
<b>primary_name</b> <i>required</i>	Name of the primary object.	string
<b>resource_id</b> <i>required</i>	ID of storage resource migrated by this action.	string
<b>resource_type</b> <i>required</i>		<a href="#">MigrationResourceTypeEnum</a>
<b>resource_type_l10n</b> <i>optional</i>	Localized message string corresponding to resource_type	string
<b>src_appliance_id</b> <i>required</i>	ID of appliance that is the source for this migration action.	string

## migration\_recommendation\_create

Set evacuate\_appliance parameters to evacuate space Filtering on the fields of this embedded resource is not supported.

Name	Description	Schema
<b>evacuate_appliance</b> <i>required</i>	Evacuate appliance by specifying optional space_to_free	<a href="#">evacuate_appliance</a>

### evacuate\_appliance

Name	Description	Schema
<b>appliance_id</b> <i>required</i>	ID of appliance on which available space is desired. <b>Example</b> : "evac_from_appliance"	string
<b>space_to_free</b> <i>optional</i>	Optional desired amount of used storage (in bytes) to move to other appliances. If space_to_free is not specified, space to be freed is estimated by the system such that migrating objects equivalent to that much amount of storage space would clear Major severity capacity alarm on the appliance. If there is no Major severity capacity alarm on an appliance and space_to_free is not specified, error will be returned. To free up desired amount of space from an appliance, specify the amount of space greater than zero to be freed. <b>Minimum value</b> : 1 <b>Example</b> : 3000000000000	integer (int64)
<b>target_appliance_ids</b> <i>optional</i>	Optional IDs of appliances to which used storage can be migrated for this request. If no target appliances are specified, the evacuated objects can be placed on any appliance in the cluster. <b>Example</b> : [ "evac_to_appliance_1", "evac_to_appliance_2", "..." ]	< string > array

### migration\_recommendation\_create\_migration\_sessions\_response

Name	Description	Schema
<b>migration_sessions_ids</b> <i>optional</i>	ID of migration sessions created for the recommendation.	< string > array
<b>rescan_host_list</b> <i>optional</i>	IDs of attached hosts that require a rescan to ensure accessibility of migrated storage objects after migrations complete.	< string > array

# migration\_recommendation\_instance

Name	Description	Schema
<b>created_times</b> <b>tamp</b> <i>optional</i>	Time at which recommendation was created.	string (date-time)
<b>estimated_cost</b> <i>optional</i>	Unitless value describing estimated cost to migrate all volumes for this recommendation relative to other recommendations. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>id</b> <i>optional</i>	Unique ID of recommendation.	string
<b>migration_actions</b> <i>optional</i>	Filtering on the fields of this embedded resource is not supported.	< <a href="#">migration_recommendation_action</a> > array
<b>request_parameters</b> <i>optional</i>		<a href="#">migration_recommendation_create</a>
<b>rescan_host_list</b> <i>optional</i>	IDs of hosts that must be rescanned after migration sessions are created but before migration sessions are started.	< string > array
<b>sessions_completed_timestamp</b> <i>optional</i>	Time at which all migration sessions for the recommendation were complete. Null if migration sessions have not been created/started or if any migration pursuant to the recommendation is still ongoing.	string (date-time)
<b>sessions_created_timestamp</b> <i>optional</i>	Time at which migration sessions were created for the recommendation. Null if migration sessions have not been created.	string (date-time)
<b>state</b> <i>optional</i>		<a href="#">MigrationRecommendationStateEnum</a>
<b>state_message</b> <i>optional</i>	Localized message string corresponding to state	string

Name	Description	Schema
<b>type</b> <i>optional</i>	Type of request that generated a migration recommendation. Evacuate_Appliance - A recommendation to evacuate space by auto selecting storage objects from an appliance using specified size.	<a href="#">MigrationRecommendationTypeEnum</a>
<b>type_l10n</b> <i>optional</i>	Localized message string corresponding to type	string

## migration\_session\_create

Name	Description	Schema
<b>automatic_cutover</b> <i>optional</i>	Indicates whether the migration session cutover is manual or automatic. Default for virtual_volume resource type migrations is automatic, otherwise the default is manual. <b>Default : false</b>	boolean
<b>destination_appliance_id</b> <i>required</i>	Unique identifier of the destination appliance instance.	string
<b>family_id</b> <i>required</i>	Family identifier designating the storage resource or resources to migrate. For volume or virtual_volume migrations, the family is moved together because they share data among the primary object, snapshots, and clones. For volume_group migration, the family of each volume in the group is moved because it is a grouping of volumes.	string
<b>name</b> <i>optional</i>	User-specified friendly name of the migration session instance. The name can contain a maximum of 32 Unicode characters. It cannot contain unprintable characters, special HTTP characters, or whitespace.	string
<b>resource_type</b> <i>required</i>		<a href="#">MigrationResourceTypeEnum</a>

## migration\_session\_create\_response

The response for the create migration operation.



Name	Description	Schema
<b>id</b> <i>optional</i>	Identifier of the migration_session object.	string
<b>rescan_host_ids</b> <i>optional</i>	List of hosts that be rescanned before a migration session can proceed.	< string > array

## migration\_session\_delete

Name	Description	Schema
<b>force</b> <i>optional</i>	Indicates whether all migration activities will be canceled before deleting the session. <b>Default</b> : <i>false</i>	boolean

## migration\_session\_instance

A migration session. This resource type has queriable associations from virtual\_volume, volume, replication\_session, volume\_group

Name	Description	Schema
<b>created_timestamp</b> <i>optional</i>	Time when the migration session was created.	string (date-time)
<b>current_transfer_rate</b> <i>optional</i>	Transfer rate of the current sync operation in bytes/sec. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>destination_appliance_id</b> <i>optional</i>	Unique identifier of the destination appliance instance.	string
<b>estimated_completion_timestamp</b> <i>optional</i>	Estimated completion time of the current sync operation.	string (date-time)

Name	Description	Schema
<b>family_id</b> <i>optional</i>	Family identifier designating the storage resource or resources being migrated. For volume or virtual_volume migrations, the family is moved together because they share data among the primary object, snapshots, and clones. For volume_group migration, the family of each volume in the group is moved because it is a grouping of volumes.	string
<b>id</b> <i>optional</i>	Unique identifier of the migration session instance.	string
<b>last_sync_time</b> <b>stamp</b> <i>optional</i>	Time of the last successful sync operation.	string (date-time)
<b>name</b> <i>optional</i>	User-specified friendly name of the migration session instance. This property supports case-insensitive filtering	string
<b>progress_perc</b> <b>entage</b> <i>optional</i>	Progress percentage of the current sync operation. <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>replication_se</b> <b>ssions</b> <i>optional</i>	This is the inverse of the resource type replication_session association.	< <a href="#">replication_session_i</a> <a href="#">nstance</a> > array
<b>resource_type</b> <i>optional</i>		<a href="#">MigrationResourceT</a> <a href="#">ypeEnum</a>
<b>resource_type</b> <b>_l10n</b> <i>optional</i>	Localized message string corresponding to resource_type	string
<b>source_applia</b> <b>nce_id</b> <i>optional</i>	Unique identifier of the source appliance instance.	string
<b>state</b> <i>optional</i>		<a href="#">MigrationSessionSta</a> <a href="#">teEnum</a>
<b>state_l10n</b> <i>optional</i>	Localized message string corresponding to state	string

Name	Description	Schema
<b>virtual_volumes</b> <i>optional</i>	This is the inverse of the resource type virtual_volume association.	< <a href="#">virtual_volume_instance</a> > array
<b>volume_groups</b> <i>optional</i>	This is the inverse of the resource type volume_group association.	< <a href="#">volume_group_instance</a> > array
<b>volumes</b> <i>optional</i>	This is the inverse of the resource type volume association.	< <a href="#">volume_instance</a> > array

## migration\_session\_sync

Name	Description	Schema
<b>automatic_cutover</b> <i>optional</i>	Indicates whether the migration session cutover is manual or automatic. Default is manual. <b>Default : false</b>	boolean
<b>rescan_complete</b> <i>optional</i>	Indicates whether a rescan will be performed during the sync operation. Default value is false. If the session creation completed with a message that rescan is required from one or more hosts, you must set this value to true during the subsequent sync operation. Otherwise, the sync operation will fail. <b>Default : false</b>	boolean

## nas\_server\_create

Name	Description	Schema
<b>current_unix_directory_service</b> <i>optional</i>		<a href="#">NAServerCurrentUnixDirectoryServiceEnum</a>
<b>default_unix_user</b> <i>optional</i>	Default Unix user name used for granting access in case of Windows to Unix user mapping failure. When empty, access in such case is denied. <b>Length : 0 - 63</b>	string

Name	Description	Schema
<b>default_windows_user</b> <i>optional</i>	Default Windows user name used for granting access in case of Unix to Windows user mapping failure. When empty, access in such case is denied. <b>Length</b> : 0 - 1023	string
<b>description</b> <i>optional</i>	Description of the NAS server. <b>Length</b> : 0 - 255	string
<b>is_auto_user_mapping_enabled</b> <i>optional</i>	A Windows user must have a corresponding matching Unix user (uid) in order to connect. This attribute enables you to automatically generate this Unix user (uid), if that Windows user does not have any in the configured Unix directory service (UDS). In a pure SMB or non multi-protocol environment, this should be set to true. <b>Default</b> : false	boolean
<b>is_username_translation_enabled</b> <i>optional</i>	Enable the possibility to match a Windows account with an Unix account with different names. <b>Default</b> : false	boolean
<b>name</b> <i>required</i>	Name of the NAS server. <b>Length</b> : 1 - 255	string

## nas\_server\_delete

Arguments for the Delete operation.

Name	Description	Schema
<b>domain_password</b> <i>optional</i>	Administrator password used to unjoin the associated SMB servers from the Active Directory (AD) domain before deleting the NAS server. This parameter is required when the skipDomainUnjoin parameter is false or not set, and the NAS server has SMB servers joined to an AD domain.	string (password)
<b>domain_username</b> <i>optional</i>	Administrator login used to unjoin the associated SMB servers from the Active Directory (AD) domain before deleting the NAS server. This parameter is required when the skipDomainUnjoin parameter is false or not set, and the NAS server has SMB servers joined to an AD domain.	string

Name	Description	Schema
<b>is_skip_domain_unjoin</b> <i>optional</i>	Indicates whether to keep the associated SMB servers joined to the Active Directory when the NAS server is deleted. Values are: - true - Keep the associated SMB servers joined to the Active Directory when the NAS server is deleted. - false - (Default) Try to unjoin the associated SMB servers from the Active Directory before deleting the NAS server. <b>Default : false</b>	boolean

## nas\_server\_instance

This resource type has queryable associations from file\_interface, file\_ndmp, file\_virus\_checker, nfs\_server, smb\_server, file\_dns, file\_ftp, file\_kerberos, file\_ldap, file\_nis, file\_system

Name	Description	Schema
<b>backup_IPv4_interface_id</b> <i>optional</i>	Unique identifier of the preferred IPv4 backup interface.	string
<b>backup_IPv6_interface_id</b> <i>optional</i>	Unique identifier of the preferred IPv6 backup interface.	string
<b>current_node_id</b> <i>optional</i>	Unique identifier of the node on which the NAS server is running.	string
<b>current_preferred_IPv4_interface_id</b> <i>optional</i>	Unique identifier of the current active preferred IPv4 interface.	string
<b>current_preferred_IPv6_interface_id</b> <i>optional</i>	Unique identifier of the current active preferred IPv6 interface.	string
<b>current_unix_directory_service</b> <i>optional</i>		<a href="#">NAServerCurrentUnixDirectoryService Enum</a>

Name	Description	Schema
<b>current_unix_directory_service_l10n</b> <i>optional</i>	Localized message string corresponding to current_unix_directory_service	string
<b>default_unix_user</b> <i>optional</i>	Default Unix user name used for granting access in case of Windows to Unix user mapping failure. When empty, access in such case is denied.	string
<b>default_windows_user</b> <i>optional</i>	Default Windows user name used for granting access in case of Unix to Windows user mapping failure. When empty, access in such case is denied.	string
<b>description</b> <i>optional</i>	Description of the NAS server.	string
<b>file_dnsses</b> <i>optional</i>	This is the inverse of the resource type file_dns association.	< <a href="#">file_dns_instance</a> > array
<b>file_ftps</b> <i>optional</i>	This is the inverse of the resource type file_ftp association.	< <a href="#">file_ftp_instance</a> > array
<b>file_interfaces</b> <i>optional</i>	This is the inverse of the resource type file_interface association.	< <a href="#">file_interface_instance</a> > array
<b>file_kerberos</b> <i>optional</i>	This is the inverse of the resource type file_kerberos association.	< <a href="#">file_kerberos_instance</a> > array
<b>file_ldaps</b> <i>optional</i>	This is the inverse of the resource type file_ldap association.	< <a href="#">file_ldap_instance</a> > array
<b>file_ndmps</b> <i>optional</i>	This is the inverse of the resource type file_ndmp association.	< <a href="#">file_ndmp_instance</a> > array
<b>file_nises</b> <i>optional</i>	This is the inverse of the resource type file_nis association.	< <a href="#">file_nis_instance</a> > array
<b>file_systems</b> <i>optional</i>	This is the inverse of the resource type file_system association.	< <a href="#">file_system_instance</a> > array

Name	Description	Schema
<b>file_virus_checkers</b> <i>optional</i>	This is the inverse of the resource type file_virus_checker association.	< <a href="#">file_virus_checker_instance</a> > array
<b>id</b> <i>optional</i>	Unique identifier of the NAS server.	string
<b>is_auto_user_mapping_enabled</b> <i>optional</i>	A Windows user must have a corresponding matching Unix user (uid) in order to connect. This attribute enables you to automatically generate this Unix user (uid), if that Windows user does not have any in the configured Unix directory service (UDS). In a pure SMB or non multi-protocol environment, this should be set to true. <b>Default : false</b>	boolean
<b>is_username_translation_enabled</b> <i>optional</i>	Enable the possibility to match a windows account to a Unix account with different names. <b>Default : false</b>	boolean
<b>name</b> <i>optional</i>	Name of the NAS server. This property supports case-insensitive filtering	string
<b>nfs_servers</b> <i>optional</i>	This is the inverse of the resource type nfs_server association.	< <a href="#">nfs_server_instance</a> > array
<b>operational_status</b> <i>optional</i>		<a href="#">NASServerOperationalStatusEnum</a>
<b>operational_status_message</b> <i>optional</i>	Localized message string corresponding to operational_status	string
<b>preferred_node_id</b> <i>optional</i>	Unique identifier of the preferred node for the NAS server The initial value (on NAS server creation) is taken from the current node.	string
<b>production_ipv4_interface_id</b> <i>optional</i>	Unique identifier of the preferred IPv4 production interface.	string

Name	Description	Schema
<b>production_IPv6_interface_id</b> <i>optional</i>	Unique identifier of the preferred IPv6 production interface.	string
<b>smb_servers</b> <i>optional</i>	This is the inverse of the resource type smb_server association.	< <a href="#">smb_server_instance</a> > array

## nas\_server\_modify

Arguments for the modify operation.

Name	Description	Schema
<b>backup_IPv4_interface_id</b> <i>optional</i>	Unique identifier of the preferred IPv4 backup interface.	string
<b>backup_IPv6_interface_id</b> <i>optional</i>	Unique identifier of the preferred IPv6 backup interface.	string
<b>current_node_id</b> <i>optional</i>	Unique identifier of the node on which the NAS server is running.	string
<b>current_unix_directory_service</b> <i>optional</i>		<a href="#">NAServerCurrentUnixDirectoryServiceEnum</a>
<b>default_unix_user</b> <i>optional</i>	Default Unix user name used for granting access in case of Windows to Unix user mapping failure. When empty, access in such case is denied. <b>Length : 0 - 63</b>	string
<b>default_windows_user</b> <i>optional</i>	Default Windows user name used for granting access in case of Unix to Windows user mapping failure. When empty, access in such case is denied. <b>Length : 0 - 1023</b>	string
<b>description</b> <i>optional</i>	Description of the NAS server. <b>Length : 0 - 255</b>	string



Name	Description	Schema
<b>is_auto_user_mapping_enabled</b> <i>optional</i>	A Windows user must have a corresponding matching Unix user (uid) in order to connect. This attribute enables you to automatically generate this Unix user (uid), if that Windows user does not have any in the configured Unix directory service (UDS). In a pure SMB or non multi-protocol environment, this should be set to true. <b>Default : false</b>	boolean
<b>is_username_translation_enabled</b> <i>optional</i>	Enable the possibility to match a windows account to a Unix account with different names <b>Default : false</b>	boolean
<b>name</b> <i>optional</i>	Name of the NAS server. <b>Length : 1 - 255</b>	string
<b>preferred_node_id</b> <i>optional</i>	Unique identifier of the preferred node for the NAS server The initial value (on NAS server create) is taken from the current node.	string
<b>production_IPv4_interface_id</b> <i>optional</i>	Unique identifier of the preferred IPv4 production interface.	string
<b>production_IPv6_interface_id</b> <i>optional</i>	Unique identifier of the preferred IPv6 production interface.	string

## nas\_server\_ping

Request body for ping arguments.

Name	Description	Schema
<b>destination_address</b> <i>optional</i>	Destination to ping, can be either an IP address (IPv4 or IPv6) or a hostname being resolved by the NAS server name resolvers.	string (ip-address)
<b>is_ipv6</b> <i>optional</i>	When true, and the destination is a hostname, it will be resolved to IPv6. Otherwise the hostname is resolved preferably to an IPv4 address. <b>Default : false</b>	boolean

# network\_instance

This resource type has queriable association from ip\_pool\_address

Name	Description	Schema
<b>gateway</b> <i>optional</i>	Network gateway in IPv4 or IPv6 format, corresponding to the network's IP version.	string (ip-address)
<b>id</b> <i>optional</i>	Unique identifier of the network.	string
<b>ip_pool_addresses</b> <i>optional</i>	This is the inverse of the resource type ip_pool_address association.	< <a href="#">ip_pool_address_instance</a> > array
<b>ip_version</b> <i>optional</i>		<a href="#">IpVersionTypeEnum</a>
<b>ip_version_l10n</b> <i>optional</i>	Localized message string corresponding to ip_version	string
<b>mtu</b> <i>optional</i>	Maximum Transmission Unit (MTU) packet size set on network interfaces, in bytes. <b>Minimum value</b> : 1280 <b>Maximum value</b> : 9000	integer (int32)
<b>prefix_length</b> <i>optional</i>	Network prefix length, used for both IPv4 and IPv6. <b>Minimum value</b> : 1 <b>Maximum value</b> : 127	integer (int32)
<b>type</b> <i>optional</i>		<a href="#">NetworkTypeEnum</a>
<b>type_l10n</b> <i>optional</i>	Localized message string corresponding to type	string
<b>vlan_id</b> <i>optional</i>	VLAN identifier. <b>Minimum value</b> : 0 <b>Maximum value</b> : 4094	integer (int32)

# network\_modify

Name	Description	Schema
<b>add_addresses</b> <i>optional</i>	IP addresses to add in IPv4 or IPv6 format.	< string (ip-address) > array
<b>cluster_mgmt_address</b> <i>optional</i>	<p>New cluster management IP address in IPv4 or IPv6 format, corresponding to the network's IP version. This can only be specified when reconfiguring the management network.</p> <p>Caution: Changing the cluster management IP address will lead to losing management sessions through this address.</p>	string (ip-address)
<b>esxi_credentials</b> <i>optional</i>		<a href="#">esxi_credentials</a>
<b>force</b> <i>optional</i>	<p>Indicates whether to suppress network validation errors. The option is intended to suppress false errors caused by network environment constraints.</p> <p>Normally the command will fail with an error when: - some of system network ports are in degraded state or have cabling issues, - system top-of-rack switches have configuration issues leading to network unreachability, - network IP addresses have duplicates in the network environment, - or network gateway is unreachable.</p> <p>When force is true, the command will proceed instead.</p> <p>Caution: Only use this option when you are certain your requested settings are correct and you understand why they are failing at this time, and you want to apply the settings anyway. Improper network settings can make the system unreachable for data and management.</p> <p><b>Default</b> : <b>false</b></p>	boolean
<b>gateway</b> <i>optional</i>	Network gateway in IPv4 or IPv6 format, corresponding to the network's IP version. Specify empty string to remove the gateway.	string (ip-address)
<b>mtu</b> <i>optional</i>	<p>Maximum Transmission Unit (MTU) packet size set on network interfaces, in bytes.</p> <p><b>Minimum value</b> : <b>1280</b></p> <p><b>Maximum value</b> : <b>9000</b></p>	integer (int32)

Name	Description	Schema
<b>prefix_length</b> <i>optional</i>	Network prefix length. (Used for both IPv4 and IPv6). <b>Minimum value : 1</b> <b>Maximum value : 127</b>	integer (int32)
<b>remove_addresses</b> <i>optional</i>	IP addresses to remove in IPv4 or IPv6 format.	< string (ip-address) > array
<b>storage_discovery_address</b> <i>optional</i>	New storage discovery IP address in IPv4 or IPv6 format, corresponding to the network's IP version. This can only be specified when reconfiguring the storage network. Specify empty string to remove the storage discovery IP address.	string (ip-address)
<b>vasa_provider_credentials</b> <i>optional</i>	Credentials required for re-registering the VASA vendor provider during the reconfiguration of the cluster management IP address. Should be passed only when reconfiguring cluster management IP address.	<a href="#">vasa_provider_credentials</a>
<b>vlan_id</b> <i>optional</i>	VLAN identifier. <b>Minimum value : 0</b> <b>Maximum value : 4094</b>	integer (int32)

### vasa\_provider\_credentials

Name	Description	Schema
<b>password</b> <i>optional</i>	VASA vendor provider password.	string (password)
<b>username</b> <i>optional</i>	VASA vendor provider user name.	string

### network\_replace

Name	Description	Schema
<b>cluster_mgmt_address</b> <i>required</i>	New cluster management IP address in IPv4 or IPv6 format, corresponding to the network's IP version. <b>Minimum length : 1</b>	string (ip-address)
<b>dns_addresses</b> <i>required</i>	List of new DNS server IP addresses in IPv4 or IPv6 format.	< string (ip-address) > array

Name	Description	Schema
<b>esxi_credentials</b> <i>optional</i>		<a href="#">esxi_credentials</a>
<b>force</b> <i>optional</i>	<p>Indicates whether to suppress network validation errors. The option is intended to suppress false errors caused by network environment constraints.</p> <p>Normally the command will fail with an error when: - some of system network ports are in degraded state or have cabling issues, - system top-of-rack switches have configuration issues leading to network unreachability, - network IP addresses have duplicates in the network environment, - or network gateway is unreachable.</p> <p>When force is true, the command will proceed instead.</p> <p>Caution: Only use this option when you are certain your requested settings are correct and you understand why they are failing at this time, and you want to apply the settings anyway. Improper network settings can make the system unreachable for data and management.</p> <p><b>Default</b> : <b>false</b></p>	boolean
<b>gateway</b> <i>required</i>	Network gateway in IPv4 or IPv6 format, corresponding to the network's IP version. Specify empty string to remove the gateway.	string (ip-address)
<b>ip_pool_addresses</b> <i>required</i>	List of new IP addresses in IPv4 or IPv6 format.	< string (ip-address) > array
<b>mtu</b> <i>required</i>	<p>Maximum Transmission Unit (MTU) packet size set on network interfaces, in bytes.</p> <p><b>Minimum value</b> : <b>1280</b></p> <p><b>Maximum value</b> : <b>9000</b></p>	integer (int32)
<b>nntp_addresses</b> <i>required</i>	List of new NTP server FQDNs or IP addresses in IPv4 or IPv6 format.	< string (ip-address) > array
<b>physical_switches</b> <i>optional</i>	List of new physical switches settings. If this property is omitted, physical switches configuration will not be modified.	< <a href="#">network_replace_physical_switch</a> > array

Name	Description	Schema
<b>prefix_length</b> <i>required</i>	Network prefix length. (Used for both IPv4 and IPv6). <b>Minimum value : 1</b> <b>Maximum value : 127</b>	integer (int32)
<b>smtp_config</b> <i>optional</i>		<a href="#">network_replace_smtp_config</a>
<b>vasa_provider_credentials</b> <i>optional</i>	Credentials required for re-registering the VASA vendor provider during the replacement of the cluster management IP address. Should be passed only when reconfiguring PowerStoreX cluster.	<a href="#">vasa_provider_credentials</a>
<b>vcenter_addresses</b> <i>optional</i>	New vCenter FQDNs or IP address in IPv4 or IPv6 format. Required only when reconfiguring PowerStoreX cluster. <b>Minimum length : 1</b>	string (ip-address)
<b>vlan_id</b> <i>required</i>	VLAN identifier. <b>Minimum value : 0</b> <b>Maximum value : 4094</b>	integer (int32)

### vasa\_provider\_credentials

Name	Description	Schema
<b>password</b> <i>optional</i>	VASA vendor provider password.	string (password)
<b>username</b> <i>optional</i>	VASA vendor provider user name.	string

### network\_replace\_physical\_switch

Name	Description	Schema
<b>connections</b> <i>optional</i>	Supported connections for a physical switch.	< <a href="#">network_replace_physical_switch_connection</a> > array
<b>name</b> <i>optional</i>	Name of a physical switch.	string

Name	Description	Schema
<b>purpose</b> <i>optional</i>		<a href="#">PhysicalSwitchPurposeEnum</a>

## network\_replace\_physical\_switch\_connection

Name	Description	Schema
<b>address</b> <i>required</i>	Physical switch address in IPv4 or IPv6 or DNS hostname format.	string (ip-address)
<b>connect_method</b> <i>required</i>		<a href="#">PhysicalSwitchConnectMethodEnum</a>
<b>port</b> <i>optional</i>	Port used for connection to switch. <b>Minimum value</b> : 0 <b>Maximum value</b> : 65535	integer (int32)
<b>snmp_community_string</b> <i>optional</i>	SNMPv2 community string, if SNMPv2c connect method is specified.	string (password)
<b>ssh_password</b> <i>optional</i>	SSH password to connect a physical switch if SSH connect method is specified.	string (password)
<b>username</b> <i>optional</i>	Username to connect a physical switch for SSH connection method.	string

## network\_replace\_smtp\_config

Name	Description	Schema
<b>address</b> <i>required</i>	IP address of the SMTP server.	string (ip-address)
<b>port</b> <i>required</i>	Port used for sending SMTP messages. <b>Minimum value</b> : 0 <b>Maximum value</b> : 65535	integer (int32)
<b>source_email</b> <i>required</i>	Source email address used for sending SMTP messages.	string

## network\_scale

Name	Description	Schema
<b>add_port_ids</b> <i>optional</i>	Unique identifiers of available IP ports to be used in the network.	< string > array
<b>force</b> <i>optional</i>	<p>Indicates whether to suppress network validation errors. The option is intended to suppress false errors caused by network environment constraints.</p> <p>Normally the command will fail with an error when:</p> <ul style="list-style-type: none"> <li>• system network ports on top of which IP ports are configured are in degraded state or have cabling issues,</li> <li>• or network IP addresses applied as a result of network scaling have duplicates in the network environment.</li> </ul> <p>When force is true, the command will proceed instead.</p> <p>Caution: Only use this option when you are certain your requested settings are correct and you understand why they are failing at this time, and you want to apply the settings anyway. Improper network settings can make the system unreachable for data.</p> <p><b>Default :</b> <code>false</code></p>	boolean
<b>remove_port_ids</b> <i>optional</i>	Unique identifiers of IP ports to remove from use in the network.	< string > array

## nfs\_export\_create

Name	Description	Schema
<b>anonymous_G ID</b> <i>optional</i>	<p>Specifies the group ID of the anonymous account.</p> <p><b>Default :</b> <code>-2</code></p> <p><b>Minimum value :</b> <code>-2147483648</code></p> <p><b>Maximum value :</b> <code>2147483647</code></p>	integer (int32)
<b>anonymous_U ID</b> <i>optional</i>	<p>Specifies the user ID of the anonymous account.</p> <p><b>Default :</b> <code>-2</code></p> <p><b>Minimum value :</b> <code>-2147483648</code></p> <p><b>Maximum value :</b> <code>2147483647</code></p>	integer (int32)



Name	Description	Schema
<b>default_access</b> <i>optional</i>		<a href="#">NFSExportDefaultAccessEnum</a>
<b>description</b> <i>optional</i>	User defined NFS Export description. <b>Length : 0 - 511</b>	string
<b>file_system_id</b> <i>required</i>	Unique identifier of the file system on which the NFS Export will be created.	string
<b>is_no_SUID</b> <i>optional</i>	If set, do not allow access to set SUID. Otherwise, allow access. <b>Default : false</b>	boolean
<b>min_security</b> <i>optional</i>		<a href="#">NFSExportMinSecurityEnum</a>
<b>name</b> <i>required</i>	NFS Export name. <b>Length : 1 - 80</b>	string
<b>no_access_hosts</b> <i>optional</i>	Hosts with no access to the NFS export or its snapshots. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @.	< string > array
<b>path</b> <i>required</i>	Local path to export relative to the file system root directory. With NFS, each export of a file_system or file_snap must have a unique local path. Before you can create additional Exports within an NFS shared folder, you must create directories within it from a Linux/Unix host that is connected to the file system. After a directory has been created from a mounted host, you can create a corresponding Export and set access permissions accordingly. <b>Length : 1 - 1023</b>	string
<b>read_only_hosts</b> <i>optional</i>	Hosts with read-only access to the NFS export and its snapshots. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @.	< string > array

Name	Description	Schema
<b>read_only_roo t_hosts</b> <i>optional</i>	Hosts with read-only and ready-only for root user access to the NFS Export and its snapshots. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLenght, or IPv4/subnetmask), or Netgroups prefixed with @.	< string > array
<b>read_write_ho sts</b> <i>optional</i>	Hosts with read and write access to the NFS export and its snapshots. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLenght, or IPv4/subnetmask), or Netgroups prefixed with @.	< string > array
<b>read_write_ro ot_hosts</b> <i>optional</i>	Hosts with read and write and read and write for root user access to the NFS Export and its snapshots. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLenght, or IPv4/subnetmask), or Netgroups prefixed with @.	< string > array

## nfs\_export\_instance

This resource type has queriable association from file\_system

Name	Description	Schema
<b>anonymous_G ID</b> <i>optional</i>	Specifies the group ID of the anonymous account. <b>Default :</b> -2 <b>Minimum value :</b> -2147483648 <b>Maximum value :</b> 2147483647	integer (int32)
<b>anonymous_U ID</b> <i>optional</i>	Specifies the user ID of the anonymous account. <b>Default :</b> -2 <b>Minimum value :</b> -2147483648 <b>Maximum value :</b> 2147483647	integer (int32)
<b>default_access</b> <i>optional</i>		<a href="#">NFSExportDefaultAccessEnum</a>
<b>default_access _l10n</b> <i>optional</i>	Localized message string corresponding to default_access	string
<b>description</b> <i>optional</i>	NFS Export description.	string

Name	Description	Schema
<b>file_system</b> <i>optional</i>	This is the embeddable reference form of file_system_id attribute.	<a href="#">file_system_instance</a>
<b>file_system_id</b> <i>optional</i>	Unique identifier of the file system on which the NFS Export was created.	string
<b>id</b> <i>optional</i>	Unique id of the NFS Export.	string
<b>is_no_SUID</b> <i>optional</i>	If set, do not allow access to set SUID. Otherwise, allow access.	boolean
<b>min_security</b> <i>optional</i>		<a href="#">NFSExportMinSecurityEnum</a>
<b>min_security_l10n</b> <i>optional</i>	Localized message string corresponding to min_security	string
<b>name</b> <i>optional</i>	NFS Export name. This property supports case-insensitive filtering	string
<b>nfs_owner_username</b> <i>optional</i>	<b>(Applies to NFS shares of VMware NFS storage resources.)</b> Default owner of the NFS Export associated with the datastore. Required if secure NFS enabled. For NFSv3 or NFSv4 without Kerberos, the default owner is root.	string
<b>no_access_hosts</b> <i>optional</i>	Hosts with no access to the NFS export or its snapshots. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @.	< string > array
<b>path</b> <i>optional</i>	Local path to a location within the file system. With NFS, each export must have a unique local path. By default, the system exports the root of the file system (top-most directory) at the time the file system is created. This path specifies the unique location of the file system on the storage system. Before you can create additional exports within an NFS shared folder, you must create directories within it from a Linux/Unix host that is connected to the file system. After a directory has been created from a mounted host, you can create a corresponding export and set access permissions accordingly.	string

Name	Description	Schema
<b>read_only_hosts</b> <i>optional</i>	Hosts with read-only access to the NFS export and its snapshots. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @.	< string > array
<b>read_only_root_hosts</b> <i>optional</i>	Hosts with read-only and ready-only for root user access to the NFS Export and its snapshots. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @.	< string > array
<b>read_write_hosts</b> <i>optional</i>	Hosts with read and write access to the NFS export and its snapshots. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @.	< string > array
<b>read_write_root_hosts</b> <i>optional</i>	Hosts with read and write and read and write for root user access to the NFS Export and its snapshots. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @.	< string > array

## nfs\_export\_modify

Name	Description	Schema
<b>add_no_access_hosts</b> <i>optional</i>	Hosts to add to the no_access_host list. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @. Error if the host already exists in the list. Cannot be combined with no_access_hosts.	< string > array
<b>add_read_only_hosts</b> <i>optional</i>	Hosts to add to the current read_only_hosts list. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @. Error if the host already exists. Cannot combine with read_only_hosts.	< string > array
<b>add_read_only_root_hosts</b> <i>optional</i>	Hosts to add to the current read_only_root_hosts list. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @. Error if the host already exists. Cannot combine with read_only_root_hosts.	< string > array

Name	Description	Schema
<b>add_read_write_hosts</b> <i>optional</i>	Hosts to add to the current read_write_hosts list. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @. Error if Host is already exists. Cannot combine with read_write_hosts.	< string > array
<b>add_read_write_root_hosts</b> <i>optional</i>	Hosts to add to the current read_write_root_hosts list. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @. Error if the host already exists. Cannot combine with read_write_root_hosts.	< string > array
<b>anonymous_GID</b> <i>optional</i>	Specifies the group ID of the anonymous account. <b>Default</b> : -2 <b>Minimum value</b> : -2147483648 <b>Maximum value</b> : 2147483647	integer (int32)
<b>anonymous_UID</b> <i>optional</i>	Specifies the user ID of the anonymous account. <b>Default</b> : -2 <b>Minimum value</b> : -2147483648 <b>Maximum value</b> : 2147483647	integer (int32)
<b>default_access</b> <i>optional</i>		<a href="#">NFSExportDefaultAccessEnum</a>
<b>description</b> <i>optional</i>	NFS Export description. <b>Length</b> : 0 - 511	string
<b>is_no_SUID</b> <i>optional</i>	If set, do not allow access to set SUID. Otherwise, allow access.	boolean
<b>min_security</b> <i>optional</i>		<a href="#">NFSExportMinSecurityEnum</a>
<b>no_access_hosts</b> <i>optional</i>	Hosts with no access to the NFS export or its snapshots. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @.	< string > array
<b>read_only_hosts</b> <i>optional</i>	Hosts with read-only access to the NFS export and its snapshots. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @.	< string > array

Name	Description	Schema
<b>read_only_root_hosts</b> <i>optional</i>	Hosts with read-only and ready-only for root user access to the NFS Export and its snapshots. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), Netgroups prefixed with @.	< string > array
<b>read_write_hosts</b> <i>optional</i>	Hosts with read and write access to the NFS export and its snapshots. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask) or, Netgroups prefixed with @.	< string > array
<b>read_write_root_hosts</b> <i>optional</i>	Hosts with read and write and read and write for root user access to the NFS Export and its snapshots. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @.	< string > array
<b>remove_no_access_hosts</b> <i>optional</i>	Hosts to remove from the current no_access_hosts list. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @. Error if the host is not present. Cannot combine with no_access_hosts.	< string > array
<b>remove_read_only_hosts</b> <i>optional</i>	Hosts to remove from the current read_only_hosts list. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @. Error if the host is not present. Cannot combine with read_only_hosts.	< string > array
<b>remove_read_only_root_hosts</b> <i>optional</i>	Hosts to remove from the current read_only_root_hosts list. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @. Error if The host is not present. Cannot combine with read_only_root_hosts.	< string > array
<b>remove_read_write_hosts</b> <i>optional</i>	Hosts to remove from the current read_write_hosts list. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @. Error if Host is not present. Cannot combine with read_write_hosts.	< string > array

Name	Description	Schema
<b>remove_read_write_root_hosts</b> <i>optional</i>	Hosts to remove from the current read_write_root_hosts list. Hosts can be entered by Hostname, IP addresses (IPv4, IPv6, IPv4/PrefixLength, IPv6/PrefixLength, or IPv4/subnetmask), or Netgroups prefixed with @. Error if the host is not present. Cannot combine with read_write_root_hosts.	< string > array

## nfs\_server\_create

Argument for the NFS server create operation.

Name	Description	Schema
<b>credentials_cache_TTL</b> <i>optional</i>	Sets the Time-To-Live (in minutes) expiration time in minutes for a Windows entry in the credentials cache. When failed mapping entries expire, the system retries mapping the UID to the SID. <b>Default : 5</b> <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>host_name</b> <i>optional</i>	The name that will be used by NFS clients to connect to this NFS server. This name is required when using secure NFS, except when is_use_smb_config_enabled is true. In this case host_name is forced to the SMB server computer name, and must not be specified. <b>Length : 1 - 255</b>	string
<b>is_extended_credentials_enabled</b> <i>optional</i>	Indicates whether the NFS server supports more than 16 Unix groups in a Unix credential. Valid values are, - true - NFS server supports more than 16 Unix groups in a Unix credential. The NFS server will send additional request to Unix Directory service to identify Unix groups. - false - NFS server supports more than 16 Unix groups in a Unix credential. The NFS server will send additional request to Unix Directory service to identify Unix groups. Note - The NFS server builds its own Unix credential when it supports more than 16 groups. This process can slow performance. <b>Default : false</b>	boolean

Name	Description	Schema
<b>is_nfsv3_enabled</b> <i>optional</i>	Indicates whether NFSv3 is enabled on the NAS server. When enabled, NFS shares can be accessed with NFSv3. When disabled, NFS shares can not be accessed with NFSv3 protocol. - true - NFSv3 is enabled on the specified NAS server. - false - NFSv3 is disabled on the specified NAS server. <b>Default : true</b>	boolean
<b>is_nfsv4_enabled</b> <i>optional</i>	Indicates whether NFSv4 is enabled on the NAS server. When enabled, NFS shares can be accessed with NFSv4. When disabled, NFS shares can not be accessed with NFSv4 protocol. - true - NFSv4 is enabled on the specified NAS server. - false - NFSv4 is disabled on the specified NAS server. <b>Default : false</b>	boolean
<b>is_secure_enabled</b> <i>optional</i>	Indicates whether secure NFS is enabled on the NFS server. - true - Secure NFS is Enabled. - false - Secure NFS is disabled. <b>Default : false</b>	boolean
<b>is_use_smb_config_enabled</b> <i>optional</i>	Indicates whether SMB authentication is used to authenticate to the KDC. Values are: - true: Indicates that the configured SMB Server settings are used for Kerberos authentication. - false: Indicates that Kerberos uses its own settings. <b>Default : false</b>	boolean
<b>nas_server_id</b> <i>required</i>	Unique identifier of the NAS server.	string

## nfs\_server\_delete

Arguments for the NFS server Delete operation.

Name	Description	Schema
<b>is_skip_unjoin</b> <i>optional</i>	Allow to bypass NFS server unjoin. If false delete will fail if secure is enabled and current kdc_type is MS Windows. If secure is enabled either unjoin NFS server before doing delete or set value to true. <b>Default : false</b>	boolean



# nfs\_server\_instance

This resource type has queriable association from nas\_server

Name	Description	Schema
<b>credentials_cache_TTL</b> <i>optional</i>	<p>Sets the Time-To-Live (in minutes) expiration timestamp for a Windows entry in the credentials cache. When failed mapping entries expire, the system retries mapping the UID to the SID.</p> <p><b>Default : 5</b></p> <p><b>Minimum value : 0</b></p> <p><b>Maximum value : 2147483647</b></p>	integer (int32)
<b>host_name</b> <i>optional</i>	<p>The name that will be used by NFS clients to connect to this NFS server. This name is required when using secure NFS, except when <code>is_use_smb_config_enabled</code> is true. In this case <code>host_name</code> is forced to the SMB server computer name, and must not be specified.</p>	string
<b>id</b> <i>optional</i>	<p>Unique identifier of the NFS server.</p>	string
<b>is_extended_credentials_enabled</b> <i>optional</i>	<p>Indicates whether the NFS server supports more than 16 Unix groups in a Unix credential. Valid values are, - true - NFS server supports more than 16 Unix groups in a Unix credential. The NFS server will send additional request to Unix Directory service to identify Unix groups. - false - NFS server supports more than 16 Unix groups in a Unix credential. The NFS server will send additional request to Unix Directory service to identify Unix groups. Note - The NFS server builds its own Unix credential when it supports more than 16 groups. This process can slow performance.</p> <p><b>Default : false</b></p>	boolean
<b>is_joined</b> <i>optional</i>	<p>Indicates whether the NFS server is joined to Active Directory. Required for Secure NFS. Always false when secure NFS is disabled and <code>kdc_type</code> is not MS Windows.</p>	boolean
<b>is_nfsv3_enabled</b> <i>optional</i>	<p>Indicates whether NFSv3 is enabled on the NAS server. When enabled, NFS shares can be accessed with NFSv3. When disabled, NFS shares cannot be accessed with NFSv3 protocol. - true - NFSv3 is enabled on the specified NAS server. - false - NFSv3 is disabled on the specified NAS server.</p>	boolean

Name	Description	Schema
<b>is_nfsv4_enabled</b> <i>optional</i>	Indicates whether NFSv4 is enabled on the NAS server. When enabled, NFS shares can be accessed with NFSv4. When disabled, NFS shares cannot be accessed with NFSv4 protocol. - true - NFSv4 is enabled on the specified NAS server. - false - NFSv4 is disabled on the specified NAS server.	boolean
<b>is_secure_enabled</b> <i>optional</i>	Indicates whether secure NFS is enabled on the NFS server. - true - Secure NFS is Enabled. - false - Secure NFS is disabled.	boolean
<b>is_use_smb_config_enabled</b> <i>optional</i>	Indicates whether SMB authentication is used to authenticate to the KDC. Values are: - true: Indicates that the the configured SMB Server settings are used for Kerberos authentication. - false: Indicates that Kerberos uses its own settings. <b>Default : false</b>	boolean
<b>nas_server</b> <i>optional</i>	This is the embeddable reference form of nas_server_id attribute.	<a href="#">nas_server_instance</a>
<b>nas_server_id</b> <i>optional</i>	The unique identifier of the NAS server that serves this share.	string
<b>service_principal_name</b> <i>optional</i>	The Service Principal Name (SPN) for the NFS server. This name is updated automatically when the NFS server configuration changes.	string

## nfs\_server\_join

Request arguments for the NFS server join operation.

Name	Description	Schema
<b>domain_password</b> <i>required</i>	Password of the domain-user specified to join the Active Directory domain.	string (password)
<b>domain_username</b> <i>required</i>	Name of a domain-user with privileges to join the Active Directory domain.	string

# nfs\_server\_modify

Arguments for the NFS server modify operation.

Name	Description	Schema
<b>credentials_cache_TTL</b> <i>optional</i>	Sets the Time-To-Live (in minutes) expiration stamp for a Windows entry in the credentials cache. When failed mapping entries expire, the system retries mapping the UID to the SID. <b>Default : 5</b> <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>host_name</b> <i>optional</i>	The name that will be used by NFS clients to connect to this NFS server. This name is required when using secure NFS, except when is_use_smb_config_enabled is true. In this case host_name is forced to the SMB server computer name, and must not be specified. <b>Length : 1 - 255</b>	string
<b>is_extended_credentials_enabled</b> <i>optional</i>	Indicates whether the NFS server supports more than 16 Unix groups in a Unix credential. Valid values are, - true - NFS server supports more than 16 Unix groups in a Unix credential. The NFS server will send additional request to Unix Directory service to identify Unix groups. - false - NFS server supports more than 16 Unix groups in a Unix credential. The NFS server will send additional request to Unix Directory service to identify Unix groups. Note - The NFS server builds its own Unix credential when it supports more than 16 groups. This process can slow performance.	boolean
<b>is_nfsv3_enabled</b> <i>optional</i>	Indicates whether NFSv3 is enabled on the NAS server. When enabled, NFS shares can be accessed with NFSv3. When disabled, NFS shares cannot be accessed with NFSv3 protocol. - true - NFSv3 is enabled on the specified NAS server. - false - NFSv3 is disabled on the specified NAS server.	boolean
<b>is_nfsv4_enabled</b> <i>optional</i>	Indicates whether NFSv4 is enabled on the NAS server. When enabled, NFS shares can be accessed with NFSv4. When disabled, NFS shares cannot be accessed with NFSv4 protocol. - true - NFSv4 is enabled on the specified NAS server. - false - NFSv4 is disabled on the specified NAS server.	boolean

Name	Description	Schema
<b>is_secure_enabled</b> <i>optional</i>	Indicates whether secure NFS is enabled on the NFS server. - true - Secure NFS is Enabled. - false - Secure NFS is disabled.	boolean
<b>is_skip_unjoin</b> <i>optional</i>	Allow to bypass NFS server unjoin. If false modification will fail if secure is enabled and current kdc_type is MS Windows. If secure is enabled either unjoin NFS server before deleting or set value to true.	boolean
<b>is_use_smb_config_enabled</b> <i>optional</i>	Indicates whether SMB authentication is used to authenticate to the KDC. Values are: - true: Indicates that the the configured SMB Server settings are used for Kerberos authentication. - false: Indicates that Kerberos uses its own settings. <b>Default : false</b>	boolean

## nfs\_server\_unjoin

Request arguments for the NFS server unjoin operation.

Name	Description	Schema
<b>domain_password</b> <i>required</i>	Password of the domain-user specified to unjoin from the Active Directory domain.	string (password)
<b>domain_username</b> <i>required</i>	Name of a domain-user with privileges to unjoin from the Active Directory domain.	string

## node\_instance

This resource type has queriable associations from appliance, ip\_pool\_address, veth\_port

Name	Description	Schema
<b>appliance</b> <i>optional</i>	This is the embeddable reference form of appliance_id attribute.	<a href="#">appliance_instance</a>
<b>appliance_id</b> <i>optional</i>	Unique identifier of the appliance to which the node belongs.	string

Name	Description	Schema
<b>id</b> <i>optional</i>	Unique identifier of the node.	string
<b>ip_pool_addresses</b> <i>optional</i>	This is the inverse of the resource type ip_pool_address association.	< <a href="#">ip_pool_address_instance</a> > array
<b>slot</b> <i>optional</i>	Slot number of the node. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>veth_ports</b> <i>optional</i>	This is the inverse of the resource type veth_port association.	< <a href="#">veth_port_instance</a> > array

## ntp\_instance

Name	Description	Schema
<b>addresses</b> <i>optional</i>	NTP server addresses. This list may contain IPv4 addresses, IPv6 addresses, and host names.	< string > array
<b>id</b> <i>optional</i>	Unique identifier of the NTP setting.	string

## ntp\_modify

Name	Description	Schema
<b>addresses</b> <i>required</i>	NTP server addresses. This list may contain IPv4 addresses, IPv6 addresses, and host names.	< string > array

## performance\_metrics\_by\_appliance

Performance metrics for the appliance collected at twenty second interval.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Unique identifier representing a specific appliance.	string

Name	Description	Schema
<b>avg_io_size</b> <i>optional</i>	Average size of read and write operations in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Average read and write latency in microseconds.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>io_workload_cpu_utilization</b> <i>optional</i>	The percentage of CPU Utilization on the cores dedicated to servicing storage I/O requests.	number (float)
<b>read_bandwidth</b> <i>optional</i>	Read rate in bytes per second.	number (float)
<b>read_iops</b> <i>optional</i>	Total read operations per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

Name	Description	Schema
<b>total_bandwidth</b> <i>optional</i>	Total data transfer rate in bytes per second.	number (float)
<b>total_iops</b> <i>optional</i>	Total read and write operations per second.	number
<b>write_bandwidth</b> <i>optional</i>	Write rate in bytes per second.	number (float)
<b>write_iops</b> <i>optional</i>	Total write operations per second.	number (float)

## performance\_metrics\_by\_appliance\_rollup

Summary of appliance level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Unique identifier representing a specific appliance.	string
<b>avg_io_size</b> <i>optional</i>	Average size of read and write operations in bytes.	number (float)
<b>avg_io_workload_cpu_utilization</b> <i>optional</i>	The average percentage of CPU Utilization on the cores dedicated to servicing storage I/O requests. Calculated over time interval across appliance. Derived from an average of utilization across all nodes within the appliance.	number (float)
<b>avg_latency</b> <i>optional</i>	Weighted average latency in microseconds.	number (float)
<b>avg_read_bandwidth</b> <i>optional</i>	Weighted average read bandwidth in bytes per second.	number (float)
<b>avg_read_iops</b> <i>optional</i>	Average reads per second.	number (float)

<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>avg_read_latency</b> <i>optional</i>	Weighted average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Weighted average read size in bytes.	number (float)
<b>avg_total_bandwidth</b> <i>optional</i>	Weighted average total bandwidth in bytes per second.	number (float)
<b>avg_total_iops</b> <i>optional</i>	Average total input and output operations per second.	number
<b>avg_write_bandwidth</b> <i>optional</i>	Weighted average write bandwidth in bytes per second.	number (float)
<b>avg_write_iops</b> <i>optional</i>	Average writes per second.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Weighted average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Weighted average write size in bytes.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>max_avg_io_size</b> <i>optional</i>	Maximum average size of input and output operations in bytes.	number (float)
<b>max_avg_latency</b> <i>optional</i>	Maximum of average latency in microseconds.	number (float)



<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>max_avg_read_latency</b> <i>optional</i>	Maximum read latency in microseconds.	number (float)
<b>max_avg_read_size</b> <i>optional</i>	Maximum of average read size in bytes.	number (float)
<b>max_avg_write_latency</b> <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
<b>max_avg_write_size</b> <i>optional</i>	Maximum of average write size in bytes.	number (float)
<b>max_io_workload_cpu_utilization</b> <i>optional</i>	The maximum percentage of CPU Utilization on the cores dedicated to servicing storage I/O requests. Calculated over time interval across appliance. Derived from an average of utilization across all nodes within the appliance.	number (float)
<b>max_read_bandwidth</b> <i>optional</i>	Maximum read bandwidth in bytes per second.	number (float)
<b>max_read_iops</b> <i>optional</i>	Maximum reads per second.	number (float)
<b>max_total_bandwidth</b> <i>optional</i>	Maximum total bandwidth in bytes per second.	number (float)
<b>max_total_iops</b> <i>optional</i>	Maximum totals per second.	number
<b>max_write_bandwidth</b> <i>optional</i>	Maximum write bandwidth in bytes per second.	number (float)
<b>max_write_iops</b> <i>optional</i>	Maximum writes per second.	number (float)

Name	Description	Schema
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

## performance\_metrics\_by\_cluster

Performance metrics for the cluster collected at twenty second interval.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>avg_io_size</b> <i>optional</i>	Average size of read and write operations in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Average read and write latency in microseconds.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>cluster_id</b> <i>optional</i>	Identifier of the cluster.	string
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string

Name	Description	Schema
<b>read_bandwidth</b> <i>optional</i>	Read rate in bytes per second.	number (float)
<b>read_iops</b> <i>optional</i>	Total number of read operations per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_bandwidth</b> <i>optional</i>	Total data transfer rate in bytes per second.	number (float)
<b>total_iops</b> <i>optional</i>	Total read and write operations per second.	number (float)
<b>write_bandwidth</b> <i>optional</i>	Write rate in byte/sec.	number (float)
<b>write_iops</b> <i>optional</i>	Total write operations per second.	number (float)

## performance\_metrics\_by\_cluster\_rollup

Summary of cluster level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>avg_io_size</b> <i>optional</i>	Average size of read and write operations in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Weighted average latency in microseconds.	number (float)

<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>avg_read_bandwidth</b> <i>optional</i>	Weighted average read bandwidth in bytes per second.	number (float)
<b>avg_read_iops</b> <i>optional</i>	Average reads per second.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Weighted average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Weighted average read size in bytes.	number (float)
<b>avg_total_bandwidth</b> <i>optional</i>	Weighted average total bandwidth in bytes per second.	number (float)
<b>avg_total_iops</b> <i>optional</i>	Average total input and output operations per second.	number
<b>avg_write_bandwidth</b> <i>optional</i>	Weighted average write bandwidth in bytes per second.	number (float)
<b>avg_write_iops</b> <i>optional</i>	Average writes per second.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Weighted average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Weighted average write size in bytes.	number (float)
<b>cluster_id</b> <i>optional</i>	Identifier of the cluster.	string
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>

<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>max_avg_io_size</b> <i>optional</i>	Maximum average size of input and output operations in bytes.	number (float)
<b>max_avg_latency</b> <i>optional</i>	Maximum of average latency in microseconds.	number (float)
<b>max_avg_read_latency</b> <i>optional</i>	Maximum read latency in microseconds.	number (float)
<b>max_avg_read_size</b> <i>optional</i>	Maximum of average read size in bytes.	number (float)
<b>max_avg_write_latency</b> <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
<b>max_avg_write_size</b> <i>optional</i>	Maximum of average write size in bytes.	number (float)
<b>max_read_bandwidth</b> <i>optional</i>	Maximum read bandwidth in bytes per second.	number (float)
<b>max_read_iops</b> <i>optional</i>	Maximum reads per second.	number (float)
<b>max_total_bandwidth</b> <i>optional</i>	Maximum total bandwidth in bytes per second.	number (float)
<b>max_total_iops</b> <i>optional</i>	Maximum totals per second.	number

Name	Description	Schema
<b>max_write_bandwidth</b> <i>optional</i>	Maximum write bandwidth in bytes per second.	number (float)
<b>max_write_ios</b> <i>optional</i>	Maximum writes per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

## performance\_metrics\_by\_fe\_eth\_node

Ethernet performance metrics for the node collected at twenty second interval.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
<b>bytes_rx_ps</b> <i>optional</i>	The total bytes received per second.	number (float)
<b>bytes_tx_ps</b> <i>optional</i>	The total bytes transmitted per second.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>node_id</b> <i>optional</i>	Reference to the associated node on which these metrics were recorded.	string

Name	Description	Schema
<b>pkt_rx_crc_error_ps</b> <i>optional</i>	The number of packets received with CRC error (and thus dropped) per second.	number (float)
<b>pkt_rx_no_buffer_error_ps</b> <i>optional</i>	The number of packets discarded per second due to lack of buffer space.	number (float)
<b>pkt_rx_ps</b> <i>optional</i>	The number of packets received per second.	number (float)
<b>pkt_tx_error_ps</b> <i>optional</i>	The number of packets that failed to be transmitted per second due to error.	number (float)
<b>pkt_tx_ps</b> <i>optional</i>	The number of packets transmitted per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

## performance\_metrics\_by\_fe\_eth\_node\_rollup

Ethernet performance metrics for the node rolled up at various rollup intervals.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
<b>avg_bytes_rx_ps</b> <i>optional</i>	The average total bytes received per second.	number (float)
<b>avg_bytes_tx_ps</b> <i>optional</i>	The average total bytes transmitted per second.	number (float)

Name	Description	Schema
<b>avg_pkt_rx_crc_error_ps</b> <i>optional</i>	The average number of packets received with CRC error (and thus dropped) per second.	number (float)
<b>avg_pkt_rx_no_buffer_error_ps</b> <i>optional</i>	The average number of packets discarded per second due to lack of buffer space.	number (float)
<b>avg_pkt_rx_ps</b> <i>optional</i>	The average number of packets received per second.	number (float)
<b>avg_pkt_tx_error_ps</b> <i>optional</i>	The average number of packets that failed to be transmitted per second due to error.	number (float)
<b>avg_pkt_tx_ps</b> <i>optional</i>	The average number of packets transmitted per second.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>max_bytes_rx_ps</b> <i>optional</i>	The maximum total bytes received per second.	number (float)
<b>max_bytes_tx_ps</b> <i>optional</i>	The maximum total bytes transmitted per second.	number (float)
<b>max_pkt_rx_crc_error_ps</b> <i>optional</i>	The maximum number of packets received with CRC error (and thus dropped) per second.	number (float)
<b>max_pkt_rx_no_buffer_error_ps</b> <i>optional</i>	The maximum number of packets discarded per second due to lack of buffer space.	number (float)



Name	Description	Schema
<b>max_pkt_rx_ps</b> <i>optional</i>	The maximum number of packets received per second.	number (float)
<b>max_pkt_tx_error_ps</b> <i>optional</i>	The maximum number of packets that failed to be transmitted per second due to error.	number (float)
<b>max_pkt_tx_ps</b> <i>optional</i>	The maximum number of packets transmitted per second.	number (float)
<b>node_id</b> <i>optional</i>	Reference to the associated node on which these metrics were recorded.	string
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

## performance\_metrics\_by\_fe\_eth\_port

Performance metrics for the frontend ethernet port collected at twenty second interval.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
<b>bytes_rx_ps</b> <i>optional</i>	The total bytes received per second.	number (float)
<b>bytes_tx_ps</b> <i>optional</i>	The total bytes transmitted per second.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>

Name	Description	Schema
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>fe_port_id</b> <i>optional</i>	Reference to the associated frontend ethernet port (eth_port) on which these metrics were recorded.	string
<b>node_id</b> <i>optional</i>	Reference to the node the port belongs to.	string
<b>pkt_rx_crc_error_ps</b> <i>optional</i>	The number of packets received with CRC error (and thus dropped) per second.	number (float)
<b>pkt_rx_no_buffer_error_ps</b> <i>optional</i>	The number of packets discarded per second due to lack of buffer space.	number (float)
<b>pkt_rx_ps</b> <i>optional</i>	The number of packets received per second.	number (float)
<b>pkt_tx_error_ps</b> <i>optional</i>	The number of packets that failed to be transmitted per second due to error.	number (float)
<b>pkt_tx_ps</b> <i>optional</i>	The number of packets transmitted per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

## performance\_metrics\_by\_fe\_eth\_port\_rollup

Performance metrics for the frontend ethernet port rolled up at various rollup intervals.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
<b>avg_bytes_rx_ps</b> <i>optional</i>	The average total bytes received per second.	number (float)
<b>avg_bytes_tx_ps</b> <i>optional</i>	The average total bytes transmitted per second.	number (float)
<b>avg_pkt_rx_crc_error_ps</b> <i>optional</i>	The average number of packets received with CRC error (and thus dropped) per second.	number (float)
<b>avg_pkt_rx_no_buffer_error_ps</b> <i>optional</i>	The average number of packets discarded per second due to lack of buffer space.	number (float)
<b>avg_pkt_rx_ps</b> <i>optional</i>	The average number of packets received per second.	number (float)
<b>avg_pkt_tx_error_ps</b> <i>optional</i>	The average number of packets that failed to be transmitted per second due to error.	number (float)
<b>avg_pkt_tx_ps</b> <i>optional</i>	The average number of packets transmitted per second.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>fe_port_id</b> <i>optional</i>	Reference to the associated frontend ethernet port (eth_port) on which these metrics were recorded.	string
<b>max_bytes_rx_ps</b> <i>optional</i>	The maximum total bytes received per second.	number (float)

Name	Description	Schema
<b>max_bytes_tx_ps</b> <i>optional</i>	The maximum total bytes transmitted per second.	number (float)
<b>max_pkt_rx_crc_error_ps</b> <i>optional</i>	The maximum number of packets received with CRC error (and thus dropped) per second.	number (float)
<b>max_pkt_rx_no_buffer_error_ps</b> <i>optional</i>	The maximum number of packets discarded per second due to lack of buffer space.	number (float)
<b>max_pkt_rx_ps</b> <i>optional</i>	The maximum number of packets received per second.	number (float)
<b>max_pkt_tx_error_ps</b> <i>optional</i>	The maximum number of packets that failed to be transmitted per second due to error.	number (float)
<b>max_pkt_tx_ps</b> <i>optional</i>	The maximum number of packets transmitted per second.	number (float)
<b>node_id</b> <i>optional</i>	Reference to the node the port belongs to.	string
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

## performance\_metrics\_by\_fe\_fc\_node

Fibre channel performance metrics for the node collected at twenty second interval.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>avg_io_size</b> <i>optional</i>	Average size of read and write operations in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Average read and write latency in microseconds.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>current_logins</b> <i>optional</i>	The number of logins to the target from initiators. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>dumped_frames_ps</b> <i>optional</i>	Dumped frames per second.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>invalid_crc_count_ps</b> <i>optional</i>	Invalid crc count per second.	number (float)
<b>invalid_tx_word_count_ps</b> <i>optional</i>	Invalid transmission word count per second.	number (float)

Name	Description	Schema
<b>link_failure_count_ps</b> <i>optional</i>	Link failure count per second.	number (float)
<b>loss_of_signal_count_ps</b> <i>optional</i>	Loss of signal count per second.	number (float)
<b>loss_of_sync_count_ps</b> <i>optional</i>	Loss of sync count per second.	number (float)
<b>node_id</b> <i>optional</i>	Reference to the associated node on which these metrics were recorded.	string
<b>prim_seq_prot_err_count_ps</b> <i>optional</i>	Primitive sequence protocol error count per second.	number (float)
<b>read_bandwidth</b> <i>optional</i>	Read rate in bytes per second.	number (float)
<b>read_iops</b> <i>optional</i>	Total number of read operations by the node.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_bandwidth</b> <i>optional</i>	Total data transfer rate in bytes per second.	number (float)
<b>total_iops</b> <i>optional</i>	Total read and write operations per second.	number (float)
<b>unaligned_bandwidth</b> <i>optional</i>	Unaligned read/write rate in bytes per second.	number (float)

Name	Description	Schema
<b>unaligned_iops</b> <i>optional</i>	Unaligned total input/output per second.	number (float)
<b>unaligned_read_bandwidth</b> <i>optional</i>	Unaligned read rate in bytes per second.	number (float)
<b>unaligned_read_iops</b> <i>optional</i>	Unaligned read input/output per second.	number (float)
<b>unaligned_write_bandwidth</b> <i>optional</i>	Unaligned write rate in bytes per second.	number (float)
<b>unaligned_write_iops</b> <i>optional</i>	Unaligned write input/output per second.	number (float)
<b>write_bandwidth</b> <i>optional</i>	Write rate in byte/sec.	number (float)
<b>write_iops</b> <i>optional</i>	Total write operations per second.	number (float)

## performance\_metrics\_by\_fe\_fc\_node\_rollup

Fibre channel performance metrics for the node rolled up at various rollup intervals.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>avg_current_logins</b> <i>optional</i>	Average number of logins to the target from initiators. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>avg_dumped_frames_ps</b> <i>optional</i>	Average dumped frames per second.	number (float)

<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>avg_invalid_crc_count_ps</b> <i>optional</i>	Average invalid crc count per second.	number (float)
<b>avg_invalid_tx_word_count_ps</b> <i>optional</i>	Average invalid transmission word count per second.	number (float)
<b>avg_io_size</b> <i>optional</i>	Average size of read and write operations in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Weighted average latency in microseconds.	number (float)
<b>avg_link_failure_count_ps</b> <i>optional</i>	Average link failure count per second.	number (float)
<b>avg_loss_of_signal_count_ps</b> <i>optional</i>	Average loss of signal count per second.	number (float)
<b>avg_loss_of_sync_count_ps</b> <i>optional</i>	Average loss of sync count per second.	number (float)
<b>avg_prim_seq_prot_err_count_ps</b> <i>optional</i>	Average primitive sequence protocol error count per second.	number (float)
<b>avg_read_bandwidth</b> <i>optional</i>	Weighted average read bandwidth in bytes per second.	number (float)
<b>avg_read_iops</b> <i>optional</i>	Average reads per second.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Weighted average read latency in microseconds.	number (float)



<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>avg_read_size</b> <i>optional</i>	Weighted average read size in bytes.	number (float)
<b>avg_total_bandwidth</b> <i>optional</i>	Weighted average total bandwidth in bytes per second.	number (float)
<b>avg_total_iops</b> <i>optional</i>	Average total input and output operations per second.	number
<b>avg_unaligned_bandwidth</b> <i>optional</i>	Average unaligned read/write rate in bytes per second.	number (float)
<b>avg_unaligned_iops</b> <i>optional</i>	Average unaligned total input/output per second.	number (float)
<b>avg_unaligned_read_bandwidth</b> <i>optional</i>	Average unaligned read rate in bytes per second.	number (float)
<b>avg_unaligned_read_iops</b> <i>optional</i>	Average unaligned read input/output per second.	number (float)
<b>avg_unaligned_write_bandwidth</b> <i>optional</i>	Average unaligned write rate in bytes per second.	number (float)
<b>avg_unaligned_write_iops</b> <i>optional</i>	Average unaligned write input/output per second.	number (float)
<b>avg_write_bandwidth</b> <i>optional</i>	Weighted average write bandwidth in bytes per second.	number (float)
<b>avg_write_iops</b> <i>optional</i>	Average writes per second.	number (float)

Name	Description	Schema
<b>avg_write_latency</b> <i>optional</i>	Weighted average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Weighted average write size in bytes.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>max_avg_io_size</b> <i>optional</i>	Maximum average size of input and output operations in bytes.	number (float)
<b>max_avg_latency</b> <i>optional</i>	Maximum of average latency in microseconds.	number (float)
<b>max_avg_read_latency</b> <i>optional</i>	Maximum read latency in microseconds.	number (float)
<b>max_avg_read_size</b> <i>optional</i>	Maximum of average read size in bytes.	number (float)
<b>max_avg_write_latency</b> <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
<b>max_avg_write_size</b> <i>optional</i>	Maximum of average write size in bytes.	number (float)
<b>max_current_logins</b> <i>optional</i>	Maximum number of logins to the target from initiators. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_dumped_frames_ps</b> <i>optional</i>	The maximum dumped frames per second.	number (float)

<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>max_invalid_crc_count_ps</b> <i>optional</i>	The maximum invalid crc count per second.	number (float)
<b>max_invalid_tx_word_count_ps</b> <i>optional</i>	The maximum invalid transmission word count per second.	number (float)
<b>max_link_failure_count_ps</b> <i>optional</i>	The maximum link failure count per second.	number (float)
<b>max_loss_of_signal_count_ps</b> <i>optional</i>	The maximum loss of signal count per second.	number (float)
<b>max_loss_of_sync_count_ps</b> <i>optional</i>	The maximum loss of sync count per second.	number (float)
<b>max_prim_seq_prot_err_count_ps</b> <i>optional</i>	The maximum primitive sequence protocol error count per second.	number (float)
<b>max_read_bandwidth</b> <i>optional</i>	Maximum read bandwidth in bytes per second.	number (float)
<b>max_read_ios</b> <i>optional</i>	Maximum reads per second.	number (float)
<b>max_total_bandwidth</b> <i>optional</i>	Maximum total bandwidth in bytes per second.	number (float)
<b>max_total_ios</b> <i>optional</i>	Maximum totals per second.	number

Name	Description	Schema
<b>max_unaligned_bandwidth</b> <i>optional</i>	Maximum unaligned read/write rate in bytes per second.	number (float)
<b>max_unaligned_iops</b> <i>optional</i>	Maximum unaligned total input/output per second.	number (float)
<b>max_unaligned_read_bandwidth</b> <i>optional</i>	Maximum unaligned read rate in bytes per second.	number (float)
<b>max_unaligned_read_iops</b> <i>optional</i>	Maximum unaligned read input/output per second.	number (float)
<b>max_unaligned_write_bandwidth</b> <i>optional</i>	Maximum unaligned write rate in bytes per second.	number (float)
<b>max_unaligned_write_iops</b> <i>optional</i>	Maximum unaligned write input/output per second.	number (float)
<b>max_write_bandwidth</b> <i>optional</i>	Maximum write bandwidth in bytes per second.	number (float)
<b>max_write_iops</b> <i>optional</i>	Maximum writes per second.	number (float)
<b>node_id</b> <i>optional</i>	Reference to the associated node on which these metrics were recorded.	string
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

# performance\_metrics\_by\_fe\_fc\_port

Performance metrics for the frontend fibre channel port collected at twenty second interval.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
<b>avg_io_size</b> <i>optional</i>	Average size of read and write operations in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Average read and write latency in microseconds.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>current_logins</b> <i>optional</i>	The number of logins to the target from initiators. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>dumped_frames_ps</b> <i>optional</i>	Dumped frames per second.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string

Name	Description	Schema
<b>fe_port_id</b> <i>optional</i>	Reference to the associated frontend fibre channel port (fc_port) on which these metrics were recorded.	string
<b>invalid_crc_count_ps</b> <i>optional</i>	Invalid crc count per second.	number (float)
<b>invalid_tx_word_count_ps</b> <i>optional</i>	Invalid transmission word count per second.	number (float)
<b>link_failure_count_ps</b> <i>optional</i>	Link failure count per second.	number (float)
<b>loss_of_signal_count_ps</b> <i>optional</i>	Loss of signal count per second.	number (float)
<b>loss_of_sync_count_ps</b> <i>optional</i>	Loss of sync count per second.	number (float)
<b>node_id</b> <i>optional</i>	Reference to the node the port belongs to.	string
<b>prim_seq_prot_err_count_ps</b> <i>optional</i>	Primitive sequence protocol error count per second.	number (float)
<b>read_bandwidth</b> <i>optional</i>	Read rate in bytes per second.	number (float)
<b>read_iops</b> <i>optional</i>	Total number of read operations by the node.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>total_bandwidth</b> <i>optional</i>	Total data transfer rate in bytes per second.	number (float)
<b>total_iops</b> <i>optional</i>	Total read and write operations per second.	number (float)
<b>unaligned_bandwidth</b> <i>optional</i>	Unaligned read/write rate in bytes per second.	number (float)
<b>unaligned_iops</b> <i>optional</i>	Unaligned total input/output per second.	number (float)
<b>unaligned_read_bandwidth</b> <i>optional</i>	Unaligned read rate in bytes per second.	number (float)
<b>unaligned_read_iops</b> <i>optional</i>	Unaligned read input/output per second.	number (float)
<b>unaligned_write_bandwidth</b> <i>optional</i>	Unaligned write rate in bytes per second.	number (float)
<b>unaligned_write_iops</b> <i>optional</i>	Unaligned write input/output per second.	number (float)
<b>write_bandwidth</b> <i>optional</i>	Write rate in byte/sec.	number (float)
<b>write_iops</b> <i>optional</i>	Total write operations per second.	number (float)

## performance\_metrics\_by\_fe\_fc\_port\_rollup

Performance metrics for the frontend fibre channel port rolled up at various intervals.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
<b>avg_current_logins</b> <i>optional</i>	Average number of logins to the target from initiators. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>avg_dumped_frames_ps</b> <i>optional</i>	Average dumped frames per second.	number (float)
<b>avg_invalid_crc_count_ps</b> <i>optional</i>	Average invalid crc count per second.	number (float)
<b>avg_invalid_tx_word_count_ps</b> <i>optional</i>	Average invalid transmission word count per second.	number (float)
<b>avg_io_size</b> <i>optional</i>	Average size of read and write operations in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Weighted average latency in microseconds.	number (float)
<b>avg_link_failure_count_ps</b> <i>optional</i>	Average link failure count per second.	number (float)
<b>avg_loss_of_signal_count_ps</b> <i>optional</i>	Average loss of signal count per second.	number (float)
<b>avg_loss_of_sync_count_ps</b> <i>optional</i>	Average loss of sync count per second.	number (float)
<b>avg_prim_seq_prot_err_count_ps</b> <i>optional</i>	Average primitive sequence protocol error count per second.	number (float)



<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>avg_read_bandwidth</b> <i>optional</i>	Weighted average read bandwidth in bytes per second.	number (float)
<b>avg_read_iops</b> <i>optional</i>	Average reads per second.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Weighted average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Weighted average read size in bytes.	number (float)
<b>avg_total_bandwidth</b> <i>optional</i>	Weighted average total bandwidth in bytes per second.	number (float)
<b>avg_total_iops</b> <i>optional</i>	Average total input and output operations per second.	number
<b>avg_unaligned_bandwidth</b> <i>optional</i>	Average unaligned read/write rate in bytes per second.	number (float)
<b>avg_unaligned_iops</b> <i>optional</i>	Average unaligned total input/output per second.	number (float)
<b>avg_unaligned_read_bandwidth</b> <i>optional</i>	Average unaligned read rate in bytes per second.	number (float)
<b>avg_unaligned_read_iops</b> <i>optional</i>	Average unaligned read input/output per second.	number (float)
<b>avg_unaligned_write_bandwidth</b> <i>optional</i>	Average unaligned write rate in bytes per second.	number (float)

Name	Description	Schema
<b>avg_unaligned_write_iops</b> <i>optional</i>	Average unaligned write input/output per second.	number (float)
<b>avg_write_bandwidth</b> <i>optional</i>	Weighted average write bandwidth in bytes per second.	number (float)
<b>avg_write_iops</b> <i>optional</i>	Average writes per second.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Weighted average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Weighted average write size in bytes.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>fe_port_id</b> <i>optional</i>	Reference to the associated frontend fibre channel port (fc_port) on which these metrics were recorded.	string
<b>max_avg_io_size</b> <i>optional</i>	Maximum average size of input and output operations in bytes.	number (float)
<b>max_avg_latency</b> <i>optional</i>	Maximum of average latency in microseconds.	number (float)
<b>max_avg_read_latency</b> <i>optional</i>	Maximum read latency in microseconds.	number (float)
<b>max_avg_read_size</b> <i>optional</i>	Maximum of average read size in bytes.	number (float)

Name	Description	Schema
<b>max_avg_write_latency</b> <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
<b>max_avg_write_size</b> <i>optional</i>	Maximum of average write size in bytes.	number (float)
<b>max_current_logins</b> <i>optional</i>	Maximum number of logins to the target from initiators. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_dumped_frames_ps</b> <i>optional</i>	The maximum dumped frames per second.	number (float)
<b>max_invalid_crc_count_ps</b> <i>optional</i>	The maximum invalid crc count per second.	number (float)
<b>max_invalid_tx_word_count_ps</b> <i>optional</i>	The maximum invalid transmission word count per second.	number (float)
<b>max_link_failure_count_ps</b> <i>optional</i>	The maximum link failure count per second.	number (float)
<b>max_loss_of_signal_count_ps</b> <i>optional</i>	The maximum loss of signal count per second.	number (float)
<b>max_loss_of_sync_count_ps</b> <i>optional</i>	The maximum loss of sync count per second.	number (float)
<b>max_prim_seq_prot_err_count_ps</b> <i>optional</i>	The maximum primitive sequence protocol error count per second.	number (float)

<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>max_read_bandwidth</b> <i>optional</i>	Maximum read bandwidth in bytes per second.	number (float)
<b>max_read_ios</b> <i>optional</i>	Maximum reads per second.	number (float)
<b>max_total_bandwidth</b> <i>optional</i>	Maximum total bandwidth in bytes per second.	number (float)
<b>max_total_ios</b> <i>optional</i>	Maximum totals per second.	number
<b>max_unaligned_bandwidth</b> <i>optional</i>	Maximum unaligned read/write rate in bytes per second.	number (float)
<b>max_unaligned_ios</b> <i>optional</i>	Maximum unaligned total input/output per second.	number (float)
<b>max_unaligned_read_bandwidth</b> <i>optional</i>	Maximum unaligned read rate in bytes per second.	number (float)
<b>max_unaligned_read_ios</b> <i>optional</i>	Maximum unaligned read input/output per second.	number (float)
<b>max_unaligned_write_bandwidth</b> <i>optional</i>	Maximum unaligned write rate in bytes per second.	number (float)
<b>max_unaligned_write_ios</b> <i>optional</i>	Maximum unaligned write input/output per second.	number (float)

Name	Description	Schema
<b>max_write_bandwidth</b> <i>optional</i>	Maximum write bandwidth in bytes per second.	number (float)
<b>max_write_ios</b> <i>optional</i>	Maximum writes per second.	number (float)
<b>node_id</b> <i>optional</i>	Reference to the node the port belongs to.	string
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

## performance\_metrics\_by\_file\_system

Performance metrics for the file system collected at twenty second interval.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>avg_latency</b> <i>optional</i>	Average read and write latency in microseconds.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_size</b> <i>optional</i>	Average read and write size in bytes.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Average write latency in microseconds.	number (float)

Name	Description	Schema
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>file_system_id</b> <i>optional</i>	Unique identifier of the file system.	string
<b>read_bandwidth</b> <i>optional</i>	Read rate in bytes per second.	number (float)
<b>read_iops</b> <i>optional</i>	Total read operations per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_bandwidth</b> <i>optional</i>	Total data transfer rate in bytes per second.	number (float)
<b>total_iops</b> <i>optional</i>	Total read and write operations per second.	number (float)
<b>write_bandwidth</b> <i>optional</i>	Write rate in bytes per second.	number (float)
<b>write_iops</b> <i>optional</i>	Total write operations per second.	number (float)

# performance\_metrics\_by\_file\_system\_rollup

Summary of file system level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>avg_latency</b> <i>optional</i>	Maximum of average read and write latency in microseconds.	number (float)
<b>avg_read_bandwidth</b> <i>optional</i>	Average read rate in bytes per second.	number (float)
<b>avg_read_iops</b> <i>optional</i>	Average read operations per second.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Maximum of average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_size</b> <i>optional</i>	Average read and write size in bytes.	number (float)
<b>avg_total_bandwidth</b> <i>optional</i>	Average data transfer rate in bytes per second.	number (float)
<b>avg_total_iops</b> <i>optional</i>	Average read and write operations per second.	number (float)
<b>avg_write_bandwidth</b> <i>optional</i>	Average write rate in bytes per second.	number (float)
<b>avg_write_iops</b> <i>optional</i>	Average write operations per second.	number (float)

Name	Description	Schema
<b>avg_write_latency</b> <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>file_system_id</b> <i>optional</i>	Unique identifier of the file system.	string
<b>max_avg_latency</b> <i>optional</i>	Maximum of average read and write latency in microseconds.	number (float)
<b>max_avg_read_latency</b> <i>optional</i>	Maximum of average read latency in microseconds.	number (float)
<b>max_avg_read_size</b> <i>optional</i>	Maximum of average read size in bytes.	number (float)
<b>max_avg_size</b> <i>optional</i>	Maximum of average read and write size in bytes.	number (float)
<b>max_avg_write_latency</b> <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
<b>max_avg_write_size</b> <i>optional</i>	Maximum of average write size in bytes.	number (float)
<b>max_iops</b> <i>optional</i>	Maximum read and write operations per second.	number (float)



Name	Description	Schema
<b>max_read_bandwidth</b> <i>optional</i>	Maximum read rate in bytes per second.	number (float)
<b>max_read_ios</b> <i>optional</i>	Maximum read operations per second.	number (float)
<b>max_total_bandwidth</b> <i>optional</i>	Maximum data transfer rate in bytes per second.	number (float)
<b>max_write_bandwidth</b> <i>optional</i>	Maximum write rate in bytes per second.	number (float)
<b>max_write_ios</b> <i>optional</i>	Maximum write operations per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	Time at the beginning of sample period.	string (date-time)

## performance\_metrics\_by\_nfs

Performance metrics for the nfs collected at twenty second interval.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>avg_io_size</b> <i>optional</i>	Average read and write size in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Average read and write latency in microseconds.	number (float)

Name	Description	Schema
<b>avg_read_latency</b> <i>optional</i>	Average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string
<b>read_iops</b> <i>optional</i>	Total read operations per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_iops</b> <i>optional</i>	Total read and write operations per second.	number (float)
<b>write_iops</b> <i>optional</i>	Total write operations per second.	number (float)

# performance\_metrics\_by\_nfs\_rollup

Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>avg_io_size</b> <i>optional</i>	Average read and write size in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Maximum read and write latency in microseconds.	number (float)
<b>avg_read_iops</b> <i>optional</i>	Average read operations per second.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Maximum read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_total_iops</b> <i>optional</i>	Average read and write operations per second.	number (float)
<b>avg_write_iops</b> <i>optional</i>	Average write operations per second.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Maximum write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string

Name	Description	Schema
<b>max_avg_io_size</b> <i>optional</i>	Maximum of average read and write size in bytes.	number (float)
<b>max_avg_latency</b> <i>optional</i>	Maximum of average read and write latency in microseconds.	number (float)
<b>max_avg_read_latency</b> <i>optional</i>	Maximum of average read latency in microseconds.	number (float)
<b>max_avg_read_size</b> <i>optional</i>	Maximum of average read size in bytes.	number (float)
<b>max_avg_write_latency</b> <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
<b>max_avg_write_size</b> <i>optional</i>	Maximum of average write size in bytes.	number (float)
<b>max_iops</b> <i>optional</i>	Maximum read and write operations per second.	number (float)
<b>max_read_iops</b> <i>optional</i>	Maximum read operations per second.	number (float)
<b>max_write_iops</b> <i>optional</i>	Maximum write operations per second.	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)

Name	Description	Schema
<b>timestamp</b> <i>optional</i>	Time at the beginning of sample period.	string (date-time)

## performance\_metrics\_by\_nfsv3

Performance metrics for the nfs collected at twenty second interval.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>avg_md_latency</b> <i>optional</i>	Average md latency operations per second.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>failed_md_ops</b> <i>optional</i>	Total failed md operations per second.	number (float)
<b>md_ops</b> <i>optional</i>	Total md operations per second.	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier of the nfs.	string
<b>read_iops</b> <i>optional</i>	Total read iops in microseconds.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

Name	Description	Schema
<b>total_iops</b> <i>optional</i>	Total read and write iops in microseconds.	number (float)
<b>write_iops</b> <i>optional</i>	Total write iops in microseconds.	number (float)

## performance\_metrics\_by\_nfsv3\_rollup

Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>avg_failed_md_ops</b> <i>optional</i>	Average failed operations per second.	number (float)
<b>avg_md_latency</b> <i>optional</i>	Average md latency per second.	number (float)
<b>avg_md_ops</b> <i>optional</i>	Average md operations per second.	number (float)
<b>avg_read_iops</b> <i>optional</i>	Average read operations per second.	number (float)
<b>avg_total_iops</b> <i>optional</i>	Average read and write operations per second.	number (float)
<b>avg_write_iops</b> <i>optional</i>	Average write operations per second.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string

Name	Description	Schema
<b>max_avg_md_latency</b> <i>optional</i>	Maximum average md latency per second.	number (float)
<b>max_failed_md_ops</b> <i>optional</i>	Max failed operations per second.	number (float)
<b>max_read_iops</b> <i>optional</i>	Maximum read operations per second.	number (float)
<b>max_total_iops</b> <i>optional</i>	Maximum read and write operations per second.	number (float)
<b>max_write_iops</b> <i>optional</i>	Maximum write operations per second.	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>timestamp</b> <i>optional</i>	Time at the beginning of sample period.	string (date-time)

## performance\_metrics\_by\_nfsv4

Performance metrics for the nfs collected at twenty second interval.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>avg_md_latency</b> <i>optional</i>	Average md latency operations per second.	number (float)

Name	Description	Schema
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>failed_md_ops</b> <i>optional</i>	Total failed md operations per second.	number (float)
<b>md_ops</b> <i>optional</i>	Total md operations per second.	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier of the nfs.	string
<b>read_iops</b> <i>optional</i>	Total read iops in microseconds.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_iops</b> <i>optional</i>	Total read and write iops in microseconds.	number (float)
<b>write_iops</b> <i>optional</i>	Total write iops in microseconds.	number (float)

## performance\_metrics\_by\_nfsv4\_rollup

Summary of nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

*Polymorphism* : Inheritance

*Discriminator* : entity



<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>avg_failed_md_ops</b> <i>optional</i>	Average failed operations per second.	number (float)
<b>avg_md_latency</b> <i>optional</i>	Average md latency per second.	number (float)
<b>avg_md_ops</b> <i>optional</i>	Average md operations per second.	number (float)
<b>avg_read_iops</b> <i>optional</i>	Average read operations per second.	number (float)
<b>avg_total_iops</b> <i>optional</i>	Average read and write operations per second.	number (float)
<b>avg_write_iops</b> <i>optional</i>	Average write operations per second.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>max_avg_md_latency</b> <i>optional</i>	Maximum average md latency per second.	number (float)
<b>max_failed_md_ops</b> <i>optional</i>	Max failed operations per second.	number (float)
<b>max_read_iops</b> <i>optional</i>	Maximum read operations per second.	number (float)
<b>max_total_iops</b> <i>optional</i>	Maximum read and write operations per second.	number (float)

Name	Description	Schema
<b>max_write_iops</b> <i>optional</i>	Maximum write operations per second.	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>timestamp</b> <i>optional</i>	Time at the beginning of sample period.	string (date-time)

## performance\_metrics\_by\_node

Performance metrics for the node collected at twenty second interval.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
<b>avg_io_size</b> <i>optional</i>	Average size of read and write operations in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Average read and write latency in microseconds.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Average write latency in microseconds.	number (float)

Name	Description	Schema
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>current_logins</b> <i>optional</i>	The number of logins to the target from initiators. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>io_workload_cpu_utilization</b> <i>optional</i>	The percentage of CPU Utilization on the cores dedicated to servicing storage I/O requests.	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier representing a specific node.	string
<b>read_bandwidth</b> <i>optional</i>	Read rate in bytes per second.	number (float)
<b>read_iops</b> <i>optional</i>	Total number of read operations by the node.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_bandwidth</b> <i>optional</i>	Total data transfer rate in bytes per second.	number (float)
<b>total_iops</b> <i>optional</i>	Total read and write operations per second.	number (float)

Name	Description	Schema
<b>unaligned_bandwidth</b> <i>optional</i>	Unaligned read/write rate in bytes per second.	number (float)
<b>unaligned_iops</b> <i>optional</i>	Unaligned total input/output per second.	number (float)
<b>unaligned_read_bandwidth</b> <i>optional</i>	Unaligned read rate in bytes per second.	number (float)
<b>unaligned_read_iops</b> <i>optional</i>	Unaligned read input/output per second.	number (float)
<b>unaligned_write_bandwidth</b> <i>optional</i>	Unaligned write rate in bytes per second.	number (float)
<b>unaligned_write_iops</b> <i>optional</i>	Unaligned write input/output per second.	number (float)
<b>write_bandwidth</b> <i>optional</i>	Write rate in byte/sec.	number (float)
<b>write_iops</b> <i>optional</i>	Total write operations per second.	number (float)

## performance\_metrics\_by\_node\_rollup

Summary of node level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string

Name	Description	Schema
<b>avg_current_logins</b> <i>optional</i>	Average number of logins to the target from initiators. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>avg_io_size</b> <i>optional</i>	Average size of read and write operations in bytes.	number (float)
<b>avg_io_workload_cpu_utilization</b> <i>optional</i>	The average percentage of CPU Utilization on the cores dedicated to servicing storage I/O requests. Calculated over time across appliance. Derived from an average of utilization across all nodes within the appliance.	number (float)
<b>avg_latency</b> <i>optional</i>	Weighted average latency in microseconds.	number (float)
<b>avg_read_bandwidth</b> <i>optional</i>	Weighted average read bandwidth in bytes per second.	number (float)
<b>avg_read_iops</b> <i>optional</i>	Average reads per second.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Weighted average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Weighted average read size in bytes.	number (float)
<b>avg_total_bandwidth</b> <i>optional</i>	Weighted average total bandwidth in bytes per second.	number (float)
<b>avg_total_iops</b> <i>optional</i>	Average total input and output operations per second.	number
<b>avg_unaligned_bandwidth</b> <i>optional</i>	Average unaligned read/write rate in bytes per second.	number (float)
<b>avg_unaligned_iops</b> <i>optional</i>	Average unaligned total input/output per second.	number (float)

Name	Description	Schema
<b>avg_unaligned_read_bandwidth</b> <i>optional</i>	Average unaligned read rate in bytes per second.	number (float)
<b>avg_unaligned_read_iops</b> <i>optional</i>	Average unaligned read input/output per second.	number (float)
<b>avg_unaligned_write_bandwidth</b> <i>optional</i>	Average unaligned write rate in bytes per second.	number (float)
<b>avg_unaligned_write_iops</b> <i>optional</i>	Average unaligned write input/output per second.	number (float)
<b>avg_write_bandwidth</b> <i>optional</i>	Weighted average write bandwidth in bytes per second.	number (float)
<b>avg_write_iops</b> <i>optional</i>	Average writes per second.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Weighted average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Weighted average write size in bytes.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>max_avg_io_size</b> <i>optional</i>	Maximum average size of input and output operations in bytes.	number (float)

Name	Description	Schema
<b>max_avg_latency</b> <i>optional</i>	Maximum of average latency in microseconds.	number (float)
<b>max_avg_read_latency</b> <i>optional</i>	Maximum read latency in microseconds.	number (float)
<b>max_avg_read_size</b> <i>optional</i>	Maximum of average read size in bytes.	number (float)
<b>max_avg_write_latency</b> <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
<b>max_avg_write_size</b> <i>optional</i>	Maximum of average write size in bytes.	number (float)
<b>max_current_logins</b> <i>optional</i>	Maximum number of logins to the target from initiators. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>max_io_workload_cpu_utilization</b> <i>optional</i>	The maximum percentage of CPU Utilization on the cores dedicated to servicing storage I/O requests. Calculated over time across appliance. Derived from an average of utilization across all nodes within the appliance.	number (float)
<b>max_read_bandwidth</b> <i>optional</i>	Maximum read bandwidth in bytes per second.	number (float)
<b>max_read_iops</b> <i>optional</i>	Maximum reads per second.	number (float)
<b>max_total_bandwidth</b> <i>optional</i>	Maximum total bandwidth in bytes per second.	number (float)
<b>max_total_iops</b> <i>optional</i>	Maximum totals per second.	number

Name	Description	Schema
<b>max_unaligned_bandwidth</b> <i>optional</i>	Maximum unaligned read/write rate in bytes per second.	number (float)
<b>max_unaligned_iops</b> <i>optional</i>	Maximum unaligned total input/output per second.	number (float)
<b>max_unaligned_read_bandwidth</b> <i>optional</i>	Maximum unaligned read rate in bytes per second.	number (float)
<b>max_unaligned_read_iops</b> <i>optional</i>	Maximum unaligned read input/output per second.	number (float)
<b>max_unaligned_write_bandwidth</b> <i>optional</i>	Maximum unaligned write rate in bytes per second.	number (float)
<b>max_unaligned_write_iops</b> <i>optional</i>	Maximum unaligned write input/output per second.	number (float)
<b>max_write_bandwidth</b> <i>optional</i>	Maximum write bandwidth in bytes per second.	number (float)
<b>max_write_iops</b> <i>optional</i>	Maximum writes per second.	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier representing a specific node.	string
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)



# performance\_metrics\_by\_smb\_cache

Performance metrics for the smb cache collected at twenty second interval.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>hash_avg_latency</b> <i>optional</i>	Average hash latency.	number (float)
<b>hash_avg_size</b> <i>optional</i>	Average hash size.	number (float)
<b>hash_max_latency</b> <i>optional</i>	Max hash latency.	number (float)
<b>hash_max_size</b> <i>optional</i>	Max hash size.	number (float)
<b>hash_min_latency</b> <i>optional</i>	Min hash latency.	number (float)
<b>hash_min_size</b> <i>optional</i>	Max hash size.	number (float)
<b>max_used_threads</b> <i>optional</i>	Max used threads	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string

Name	Description	Schema
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_rejected_tasks</b> <i>optional</i>	Total rejected task.	number (float)
<b>total_tasks</b> <i>optional</i>	Total tasks.	number (float)

## performance\_metrics\_by\_smb\_cache\_rollup

Performance metrics nfs level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>hash_avg_latency</b> <i>optional</i>	Average hash latency.	number (float)
<b>hash_avg_size</b> <i>optional</i>	Average hash size.	number (float)
<b>hash_max_avg_latency</b> <i>optional</i>	Average max hash latency.	number (float)

Name	Description	Schema
<b>hash_max_avg_size</b> <i>optional</i>	Average max hash size.	number (float)
<b>hash_max_latency</b> <i>optional</i>	Max hash latency.	number (float)
<b>hash_max_size</b> <i>optional</i>	Max hash size.	number (float)
<b>hash_min_latency</b> <i>optional</i>	Min hash latency.	number (float)
<b>hash_min_size</b> <i>optional</i>	Max hash size.	number (float)
<b>max_used_threads</b> <i>optional</i>	Max used threads	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_rejected_tasks</b> <i>optional</i>	Total rejected task.	number (float)
<b>total_tasks</b> <i>optional</i>	Total tasks.	number (float)

# performance\_metrics\_by\_smb\_client

Performance metrics for the smb client collected at twenty second interval.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>avg_io_size</b> <i>optional</i>	Average read and write size in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Average read and write latency in microseconds.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string
<b>read_iops</b> <i>optional</i>	Total read operations per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)

Name	Description	Schema
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_calls</b> <i>optional</i>	Total calls.	number (float)
<b>total_iops</b> <i>optional</i>	Total read and write operations per second.	number (float)
<b>write_iops</b> <i>optional</i>	Total write operations per second.	number (float)

## performance\_metrics\_by\_smb\_client\_rollup

Summary of smb client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>avg_calls</b> <i>optional</i>	Average calls.	number (float)
<b>avg_io_size</b> <i>optional</i>	Average read and write size in bytes.	number (float)
<b>avg_iops</b> <i>optional</i>	Average read and write operations per second.	number (float)
<b>avg_latency</b> <i>optional</i>	Maximum read and write latency in microseconds.	number (float)
<b>avg_read_iops</b> <i>optional</i>	Average read operations per second.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Maximum read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)

<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>avg_write_iops</b> <i>optional</i>	Average write operations per second.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Maximum write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>max_avg_latency</b> <i>optional</i>	Maximum of average read and write latency in microseconds.	number (float)
<b>max_avg_read_latency</b> <i>optional</i>	Maximum of average read latency in microseconds.	number (float)
<b>max_avg_read_size</b> <i>optional</i>	Maximum of average read size in bytes.	number (float)
<b>max_avg_size</b> <i>optional</i>	Maximum of average read and write size in bytes.	number (float)
<b>max_avg_write_latency</b> <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
<b>max_avg_write_size</b> <i>optional</i>	Maximum of average write size in bytes.	number (float)
<b>max_calls</b> <i>optional</i>	Maximum calls.	number (float)

Name	Description	Schema
<b>max_iops</b> <i>optional</i>	Maximum read and write operations per second.	number (float)
<b>max_read_iops</b> <i>optional</i>	Maximum read operations per second.	number (float)
<b>max_write_iops</b> <i>optional</i>	Maximum write operations per second.	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	Time at the beginning of sample period.	string (date-time)

## performance\_metrics\_by\_smb\_node

Performance metrics for the smb node collected at twenty second interval.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>avg_io_size</b> <i>optional</i>	Average read and write size in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Average read and write latency in microseconds.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)

Name	Description	Schema
<b>avg_write_latency</b> <i>optional</i>	Average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string
<b>read_iops</b> <i>optional</i>	Total read operations per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_calls</b> <i>optional</i>	Total calls.	number (float)
<b>total_iops</b> <i>optional</i>	Total read and write operations per second.	number (float)
<b>write_iops</b> <i>optional</i>	Total write operations per second.	number (float)

## performance\_metrics\_by\_smb\_node\_rollup

Summary of smb node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

*Polymorphism* : Inheritance

*Discriminator* : entity



<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>avg_calls</b> <i>optional</i>	Average calls.	number (float)
<b>avg_io_size</b> <i>optional</i>	Average read and write size in bytes.	number (float)
<b>avg_iops</b> <i>optional</i>	Average read and write operations per second.	number (float)
<b>avg_latency</b> <i>optional</i>	Maximum read and write latency in microseconds.	number (float)
<b>avg_read_iops</b> <i>optional</i>	Average read operations per second.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Maximum read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_iops</b> <i>optional</i>	Average write operations per second.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Maximum write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>max_avg_latency</b> <i>optional</i>	Maximum of average read and write latency in microseconds.	number (float)

Name	Description	Schema
<b>max_avg_read_latency</b> <i>optional</i>	Maximum of average read latency in microseconds.	number (float)
<b>max_avg_read_size</b> <i>optional</i>	Maximum of average read size in bytes.	number (float)
<b>max_avg_size</b> <i>optional</i>	Maximum of average read and write size in bytes.	number (float)
<b>max_avg_write_latency</b> <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
<b>max_avg_write_size</b> <i>optional</i>	Maximum of average write size in bytes.	number (float)
<b>max_calls</b> <i>optional</i>	Maximum calls.	number (float)
<b>max_iops</b> <i>optional</i>	Maximum read and write operations per second.	number (float)
<b>max_read_iops</b> <i>optional</i>	Maximum read operations per second.	number (float)
<b>max_write_iops</b> <i>optional</i>	Maximum write operations per second.	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	Time at the beginning of sample period.	string (date-time)

# performance\_metrics\_by\_smb\_v1\_builtin\_client

Performance metrics for the smb v1 client collected at twenty second interval.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>avg_io_size</b> <i>optional</i>	Average read and write size in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Average read and write latency in microseconds.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string
<b>read_iops</b> <i>optional</i>	Total read operations per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)

Name	Description	Schema
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_calls</b> <i>optional</i>	Total calls.	number (float)
<b>total_iops</b> <i>optional</i>	Total read and write operations per second.	number (float)
<b>write_iops</b> <i>optional</i>	Total write operations per second.	number (float)

## performance\_metrics\_by\_smb\_v1\_builtin\_client\_rollup

Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>avg_calls</b> <i>optional</i>	Average calls.	number (float)
<b>avg_io_size</b> <i>optional</i>	Average read and write size in bytes.	number (float)
<b>avg_iops</b> <i>optional</i>	Average read and write operations per second.	number (float)
<b>avg_latency</b> <i>optional</i>	Maximum read and write latency in microseconds.	number (float)
<b>avg_read_iops</b> <i>optional</i>	Average read operations per second.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Maximum read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)

<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>avg_write_iops</b> <i>optional</i>	Average write operations per second.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Maximum write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>max_avg_latency</b> <i>optional</i>	Maximum of average read and write latency in microseconds.	number (float)
<b>max_avg_read_latency</b> <i>optional</i>	Maximum of average read latency in microseconds.	number (float)
<b>max_avg_read_size</b> <i>optional</i>	Maximum of average read size in bytes.	number (float)
<b>max_avg_size</b> <i>optional</i>	Maximum of average read and write size in bytes.	number (float)
<b>max_avg_write_latency</b> <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
<b>max_avg_write_size</b> <i>optional</i>	Maximum of average write size in bytes.	number (float)
<b>max_calls</b> <i>optional</i>	Maximum calls.	number (float)

Name	Description	Schema
<b>max_iops</b> <i>optional</i>	Maximum read and write operations per second.	number (float)
<b>max_read_iops</b> <i>optional</i>	Maximum read operations per second.	number (float)
<b>max_write_iops</b> <i>optional</i>	Maximum write operations per second.	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	Time at the beginning of sample period.	string (date-time)

## performance\_metrics\_by\_smb\_v1\_node

Performance metrics for the smb v1 node collected at twenty second interval.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>avg_io_size</b> <i>optional</i>	Average read and write size in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Average read and write latency in microseconds.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)

Name	Description	Schema
<b>avg_write_latency</b> <i>optional</i>	Average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string
<b>read_iops</b> <i>optional</i>	Total read operations per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_calls</b> <i>optional</i>	Total calls.	number (float)
<b>total_iops</b> <i>optional</i>	Total read and write operations per second.	number (float)
<b>write_iops</b> <i>optional</i>	Total write operations per second.	number (float)

## performance\_metrics\_by\_smb\_v1\_node\_rollup

Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

*Polymorphism* : Inheritance

*Discriminator* : entity

<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>avg_calls</b> <i>optional</i>	Average calls.	number (float)
<b>avg_io_size</b> <i>optional</i>	Average read and write size in bytes.	number (float)
<b>avg_iops</b> <i>optional</i>	Average read and write operations per second.	number (float)
<b>avg_latency</b> <i>optional</i>	Maximum read and write latency in microseconds.	number (float)
<b>avg_read_iops</b> <i>optional</i>	Average read operations per second.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Maximum read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_iops</b> <i>optional</i>	Average write operations per second.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Maximum write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>max_avg_latency</b> <i>optional</i>	Maximum of average read and write latency in microseconds.	number (float)



Name	Description	Schema
<b>max_avg_read_latency</b> <i>optional</i>	Maximum of average read latency in microseconds.	number (float)
<b>max_avg_read_size</b> <i>optional</i>	Maximum of average read size in bytes.	number (float)
<b>max_avg_size</b> <i>optional</i>	Maximum of average read and write size in bytes.	number (float)
<b>max_avg_write_latency</b> <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
<b>max_avg_write_size</b> <i>optional</i>	Maximum of average write size in bytes.	number (float)
<b>max_calls</b> <i>optional</i>	Maximum calls.	number (float)
<b>max_iops</b> <i>optional</i>	Maximum read and write operations per second.	number (float)
<b>max_read_iops</b> <i>optional</i>	Maximum read operations per second.	number (float)
<b>max_write_iops</b> <i>optional</i>	Maximum write operations per second.	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	Time at the beginning of sample period.	string (date-time)

# performance\_metrics\_by\_smb\_v2\_builtin\_client

Performance metrics for the smb v1 client collected at twenty second interval.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>avg_io_size</b> <i>optional</i>	Average read and write size in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Average read and write latency in microseconds.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string
<b>read_iops</b> <i>optional</i>	Total read operations per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)

Name	Description	Schema
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_calls</b> <i>optional</i>	Total calls.	number (float)
<b>total_iops</b> <i>optional</i>	Total read and write operations per second.	number (float)
<b>write_iops</b> <i>optional</i>	Total write operations per second.	number (float)

## performance\_metrics\_by\_smb\_v2\_builtin\_client\_rollup

Summary of smb v1 client level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>avg_calls</b> <i>optional</i>	Average calls.	number (float)
<b>avg_io_size</b> <i>optional</i>	Average read and write size in bytes.	number (float)
<b>avg_iops</b> <i>optional</i>	Average read and write operations per second.	number (float)
<b>avg_latency</b> <i>optional</i>	Maximum read and write latency in microseconds.	number (float)
<b>avg_read_iops</b> <i>optional</i>	Average read operations per second.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Maximum read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)

<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>avg_write_iops</b> <i>optional</i>	Average write operations per second.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Maximum write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>max_avg_latency</b> <i>optional</i>	Maximum of average read and write latency in microseconds.	number (float)
<b>max_avg_read_latency</b> <i>optional</i>	Maximum of average read latency in microseconds.	number (float)
<b>max_avg_read_size</b> <i>optional</i>	Maximum of average read size in bytes.	number (float)
<b>max_avg_size</b> <i>optional</i>	Maximum of average read and write size in bytes.	number (float)
<b>max_avg_write_latency</b> <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
<b>max_avg_write_size</b> <i>optional</i>	Maximum of average write size in bytes.	number (float)
<b>max_calls</b> <i>optional</i>	Maximum calls.	number (float)

Name	Description	Schema
<b>max_iops</b> <i>optional</i>	Maximum read and write operations per second.	number (float)
<b>max_read_iops</b> <i>optional</i>	Maximum read operations per second.	number (float)
<b>max_write_iops</b> <i>optional</i>	Maximum write operations per second.	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	Time at the beginning of sample period.	string (date-time)

## performance\_metrics\_by\_smb\_v2\_node

Performance metrics for the smb v1 node collected at twenty second interval.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>avg_io_size</b> <i>optional</i>	Average read and write size in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Average read and write latency in microseconds.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)

Name	Description	Schema
<b>avg_write_latency</b> <i>optional</i>	Average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string
<b>read_iops</b> <i>optional</i>	Total read operations per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_calls</b> <i>optional</i>	Total calls.	number (float)
<b>total_iops</b> <i>optional</i>	Total read and write operations per second.	number (float)
<b>write_iops</b> <i>optional</i>	Total write operations per second.	number (float)

## performance\_metrics\_by\_smb\_v2\_node\_rollup

Summary of smb v1 node level performance metric data for the period beginning with timestamp, including the average and maximum values for that period.

*Polymorphism* : Inheritance

*Discriminator* : entity

<b>Name</b>	<b>Description</b>	<b>Schema</b>
<b>avg_calls</b> <i>optional</i>	Average calls.	number (float)
<b>avg_io_size</b> <i>optional</i>	Average read and write size in bytes.	number (float)
<b>avg_iops</b> <i>optional</i>	Average read and write operations per second.	number (float)
<b>avg_latency</b> <i>optional</i>	Maximum read and write latency in microseconds.	number (float)
<b>avg_read_iops</b> <i>optional</i>	Average read operations per second.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Maximum read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_iops</b> <i>optional</i>	Average write operations per second.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Maximum write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>max_avg_latency</b> <i>optional</i>	Maximum of average read and write latency in microseconds.	number (float)

Name	Description	Schema
<b>max_avg_read_latency</b> <i>optional</i>	Maximum of average read latency in microseconds.	number (float)
<b>max_avg_read_size</b> <i>optional</i>	Maximum of average read size in bytes.	number (float)
<b>max_avg_size</b> <i>optional</i>	Maximum of average read and write size in bytes.	number (float)
<b>max_avg_write_latency</b> <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
<b>max_avg_write_size</b> <i>optional</i>	Maximum of average write size in bytes.	number (float)
<b>max_calls</b> <i>optional</i>	Maximum calls.	number (float)
<b>max_iops</b> <i>optional</i>	Maximum read and write operations per second.	number (float)
<b>max_read_iops</b> <i>optional</i>	Maximum read operations per second.	number (float)
<b>max_write_iops</b> <i>optional</i>	Maximum write operations per second.	number (float)
<b>node_id</b> <i>optional</i>	Unique identifier of the node.	string
<b>repeat_count</b> <i>optional</i>	Number of consecutive sampling periods during which there were no changes in the metrics values. If the value is omitted from the response, it is 1 (no additional repeats). <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	Time at the beginning of sample period.	string (date-time)



# performance\_metrics\_by\_vg

Performance metrics for the volumes in a volume group collected at twenty second interval.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>avg_io_size</b> <i>optional</i>	Average size of read and write operations in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Average read and write latency in microseconds.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>read_bandwidth</b> <i>optional</i>	Read rate in byte/sec.	number (float)
<b>read_iops</b> <i>optional</i>	Total read operations per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)

Name	Description	Schema
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_bandwidth</b> <i>optional</i>	Total data transfer rate in bytes per second.	number (float)
<b>total_iops</b> <i>optional</i>	Total read and write operations per second.	number (float)
<b>vg_id</b> <i>optional</i>	Unique identifier representing a volume group.	string
<b>write_bandwidth</b> <i>optional</i>	Write rate in byte/sec.	number (float)
<b>write_iops</b> <i>optional</i>	Total write operations per second.	number (float)

## performance\_metrics\_by\_vm

Performance metrics for the virtual machine collected at twenty second interval.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>avg_io_size</b> <i>optional</i>	Average size of read and write operations in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Average read and write latency in microseconds.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)

Name	Description	Schema
<b>avg_write_latency</b> <i>optional</i>	Average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>read_bandwidth</b> <i>optional</i>	Read rate in bytes per second.	number (float)
<b>read_iops</b> <i>optional</i>	Total read operations per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_bandwidth</b> <i>optional</i>	Total data transfer rate in bytes per second.	number (float)
<b>total_iops</b> <i>optional</i>	Total read and write operations per second.	number (float)
<b>vm_id</b> <i>optional</i>	Unique identifier representing a specific virtual machine.	string
<b>write_bandwidth</b> <i>optional</i>	Write rate in byte/sec.	number (float)
<b>write_iops</b> <i>optional</i>	Total write operations per second.	number (float)

# performance\_metrics\_by\_vm\_rollup

Summary of virtual machine level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>avg_io_size</b> <i>optional</i>	Average size of read and write operations in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Weighted average latency in microseconds.	number (float)
<b>avg_read_bandwidth</b> <i>optional</i>	Weighted average read bandwidth in bytes per second.	number (float)
<b>avg_read_iops</b> <i>optional</i>	Average reads per second.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Weighted average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Weighted average read size in bytes.	number (float)
<b>avg_total_bandwidth</b> <i>optional</i>	Weighted average total bandwidth in bytes per second.	number (float)
<b>avg_total_iops</b> <i>optional</i>	Average total input and output operations per second.	number (float)
<b>avg_write_bandwidth</b> <i>optional</i>	Weighted average write bandwidth in bytes per second.	number (float)
<b>avg_write_iops</b> <i>optional</i>	Average writes per second.	number (float)

Name	Description	Schema
<b>avg_write_latency</b> <i>optional</i>	Weighted average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Weighted average write size in bytes.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>max_avg_io_size</b> <i>optional</i>	Maximum average size of input and output operations in bytes.	number (float)
<b>max_avg_latency</b> <i>optional</i>	Maximum of average latency in microseconds.	number (float)
<b>max_avg_read_latency</b> <i>optional</i>	Maximum read latency in microseconds.	number (float)
<b>max_avg_read_size</b> <i>optional</i>	Maximum of average read size in bytes.	number (float)
<b>max_avg_write_latency</b> <i>optional</i>	Maximum of average write latency in microseconds.	number (float)
<b>max_avg_write_size</b> <i>optional</i>	Maximum of average write size in bytes.	number (float)
<b>max_read_bandwidth</b> <i>optional</i>	Maximum read bandwidth in bytes per second.	number (float)
<b>max_read_iops</b> <i>optional</i>	Maximum reads per second.	number (float)

Name	Description	Schema
<b>max_total_bandwidth</b> <i>optional</i>	Maximum total bandwidth in bytes per second.	number (float)
<b>max_total_iops</b> <i>optional</i>	Maximum totals per second.	number
<b>max_write_bandwidth</b> <i>optional</i>	Maximum write bandwidth in bytes per second.	number (float)
<b>max_write_iops</b> <i>optional</i>	Maximum writes per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>vm_id</b> <i>optional</i>	Unique identifier representing a specific virtual machine.	string

## performance\_metrics\_by\_volume

Performance metrics for the volume collected at twenty second interval.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
<b>avg_io_size</b> <i>optional</i>	Average size of read and write operations in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Average read and write latency in microseconds.	number (float)

Name	Description	Schema
<b>avg_read_latency</b> <i>optional</i>	Average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Average read size in bytes.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Average write size in bytes.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>read_bandwidth</b> <i>optional</i>	Read rate in bytes per second.	number (float)
<b>read_iops</b> <i>optional</i>	Total read operations per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>total_bandwidth</b> <i>optional</i>	Total data transfer rate in bytes per second.	number (float)
<b>total_iops</b> <i>optional</i>	Total read and write operations per second.	number (float)
<b>volume_id</b> <i>optional</i>	Unique identifier representing a specific volume.	string

Name	Description	Schema
<b>write_bandwidth</b> <i>optional</i>	Write rate in byte/sec.	number (float)
<b>write_iops</b> <i>optional</i>	Total write operations per second.	number (float)

## performance\_metrics\_by\_volume\_rollup

Summary of volume level performance metric data for various rollup intervals beginning with timestamp, including the average and maximum values for that period.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
<b>avg_io_size</b> <i>optional</i>	Average size of read and write operations in bytes.	number (float)
<b>avg_latency</b> <i>optional</i>	Weighted average latency in microseconds.	number (float)
<b>avg_read_bandwidth</b> <i>optional</i>	Weighted average read bandwidth in bytes per second.	number (float)
<b>avg_read_iops</b> <i>optional</i>	Average reads per second.	number (float)
<b>avg_read_latency</b> <i>optional</i>	Weighted average read latency in microseconds.	number (float)
<b>avg_read_size</b> <i>optional</i>	Weighted average read size in bytes.	number (float)
<b>avg_total_bandwidth</b> <i>optional</i>	Weighted average total bandwidth in bytes per second.	number (float)



Name	Description	Schema
<b>avg_total_iops</b> <i>optional</i>	Average total input and output operations per second.	number
<b>avg_write_bandwidth</b> <i>optional</i>	Weighted average write bandwidth in bytes per second.	number (float)
<b>avg_write_iops</b> <i>optional</i>	Average writes per second.	number (float)
<b>avg_write_latency</b> <i>optional</i>	Weighted average write latency in microseconds.	number (float)
<b>avg_write_size</b> <i>optional</i>	Weighted average write size in bytes.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>max_avg_io_size</b> <i>optional</i>	Maximum average size of input and output operations in bytes.	number (float)
<b>max_avg_latency</b> <i>optional</i>	Maximum of average latency in microseconds.	number (float)
<b>max_avg_read_latency</b> <i>optional</i>	Maximum read latency in microseconds.	number (float)
<b>max_avg_read_size</b> <i>optional</i>	Maximum of average read size in bytes.	number (float)
<b>max_avg_write_latency</b> <i>optional</i>	Maximum of average write latency in microseconds.	number (float)

Name	Description	Schema
<b>max_avg_write_size</b> <i>optional</i>	Maximum of average write size in bytes.	number (float)
<b>max_read_bandwidth</b> <i>optional</i>	Maximum read bandwidth in bytes per second.	number (float)
<b>max_read_iops</b> <i>optional</i>	Maximum reads per second.	number (float)
<b>max_total_bandwidth</b> <i>optional</i>	Maximum total bandwidth in bytes per second.	number (float)
<b>max_total_iops</b> <i>optional</i>	Maximum totals per second.	number
<b>max_write_bandwidth</b> <i>optional</i>	Maximum write bandwidth in bytes per second.	number (float)
<b>max_write_iops</b> <i>optional</i>	Maximum writes per second.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>volume_id</b> <i>optional</i>	Unique identifier representing a specific volume.	string

## performance\_rule\_instance

Quality of service rule in a performance policy for policy based management of storage resources. This resource type has queriable association from policy

Name	Description	Schema
<b>id</b> <i>optional</i>	Unique identifier representing a performance rule.	string
<b>io_priority</b> <i>optional</i>		<a href="#">IoPriorityEnum</a>
<b>io_priority_l10n</b> <i>optional</i>	Localized message string corresponding to io_priority	string
<b>name</b> <i>optional</i>	Name of the performance rule. This property supports case-insensitive filtering	string
<b>policies</b> <i>optional</i>	List of the policies that are associated with this performance_rule.	< <a href="#">policy_instance</a> > array

## physical\_switch\_connection\_create

Name	Description	Schema
<b>address</b> <i>required</i>	Physical switch address in IPv4 or IPv6 or DNS hostname format. <b>Length : 1 - 255</b>	string (ip-address)
<b>connect_method</b> <i>required</i>		<a href="#">PhysicalSwitchConnectMethodEnum</a>
<b>port</b> <i>optional</i>	Port used for connection to switch. <b>Minimum value : 0</b> <b>Maximum value : 65535</b>	integer (int32)
<b>snmp_community_string</b> <i>optional</i>	SNMPv2 community string, if SNMPv2c connect method is specified. <b>Maximal length : 128</b>	string (password)
<b>ssh_password</b> <i>optional</i>	SSH password to connect a physical switch if SSH connect method is specified. <b>Maximal length : 128</b>	string (password)
<b>username</b> <i>optional</i>	Username to connect a physical switch for SSH connection method. <b>Maximal length : 128</b>	string

# physical\_switch\_connection\_instance

This resource type has queriable association from physical\_switch

Name	Description	Schema
<b>address</b> <i>optional</i>	Physical switch address in IPv4 or IPv6 or DNS hostname format. <b>Length : 1 - 255</b>	string (ip-address)
<b>connect_method</b> <i>optional</i>		<a href="#">PhysicalSwitchConnectMethodEnum</a>
<b>connect_method_i10n</b> <i>optional</i>	Localized message string corresponding to connect_method	string
<b>physical_switch</b> <i>optional</i>	This is the embeddable reference form of physical_switch_id attribute.	<a href="#">physical_switch_instance</a>
<b>physical_switch_id</b> <i>optional</i>	Id of physical switch to which connection belongs. <b>Maximal length : 128</b>	string
<b>port</b> <i>optional</i>	Port used for connection to switch. <b>Minimum value : 0</b> <b>Maximum value : 65535</b>	integer (int32)
<b>username</b> <i>optional</i>	Username to connect a physical switch for SSH connection method. <b>Maximal length : 128</b>	string

# physical\_switch\_connection\_modify

Name	Description	Schema
<b>address</b> <i>required</i>	Physical switch address in IPv4 or IPv6 or DNS hostname format. <b>Length : 1 - 255</b>	string (ip-address)
<b>connect_method</b> <i>required</i>		<a href="#">PhysicalSwitchConnectMethodEnum</a>

Name	Description	Schema
<b>port</b> <i>optional</i>	Port used for connection to switch. <b>Minimum value</b> : 0 <b>Maximum value</b> : 65535	integer (int32)
<b>snmp_community_string</b> <i>optional</i>	SNMPv2 community string, if SNMPv2c connect method is specified. <b>Maximal length</b> : 128	string (password)
<b>ssh_password</b> <i>optional</i>	SSH password to connect a physical switch if SSH connect method is specified. <b>Maximal length</b> : 128	string (password)
<b>username</b> <i>optional</i>	Username to connect a physical switch for SSH connection method. <b>Maximal length</b> : 128	string

## physical\_switch\_create

Name	Description	Schema
<b>connections</b> <i>required</i>	Supported connections for a physical switch.	< <a href="#">physical_switch_connection_create</a> > array
<b>name</b> <i>required</i>	Name of a physical switch. <b>Length</b> : 1 - 128	string
<b>purpose</b> <i>required</i>		<a href="#">PhysicalSwitchPurposeEnum</a>

## physical\_switch\_instance

This resource type has queriable association from [physical\\_switch\\_connection](#)

Name	Description	Schema
<b>connections</b> <i>optional</i>	This is the inverse of the resource type <a href="#">physical_switch_connection</a> association.	< <a href="#">physical_switch_connection_instance</a> > array

Name	Description	Schema
<b>id</b> <i>optional</i>	Unique identifier of the physical switch setting. <b>Length</b> : 1 - 32	string
<b>name</b> <i>optional</i>	Name of physical switch. This property supports case-insensitive filtering <b>Length</b> : 1 - 128	string
<b>purpose</b> <i>optional</i>		<a href="#">PhysicalSwitchPurposeEnum</a>
<b>purpose_l10n</b> <i>optional</i>	Localized message string corresponding to purpose	string

## physical\_switch\_modify

Name	Description	Schema
<b>connections</b> <i>optional</i>	Supported connections for a physical switch.	< <a href="#">physical_switch_connection_modify</a> > array
<b>name</b> <i>optional</i>	Name of physical switch. <b>Length</b> : 1 - 128	string
<b>purpose</b> <i>optional</i>		<a href="#">PhysicalSwitchPurposeEnum</a>

## policy\_create

Policy create request.

Name	Description	Schema
<b>description</b> <i>optional</i>	Policy description.	string
<b>name</b> <i>required</i>	Policy name.	string
<b>replication_rule_ids</b> <i>optional</i>	Replication rule identifiers included in this policy. At least one snapshot rule or one replication rule must be specified to create a protection policy.	< string > array

Name	Description	Schema
<b>snapshot_rule_ids</b> <i>optional</i>	Snapshot rule identifiers included in this policy. At least one snapshot rule or one replication rule must be specified to create a protection policy.	< string > array

## policy\_instance

Properties of a policy. This resource type has querable associations from performance\_rule, snapshot\_rule, replication\_rule, virtual\_machine, volume, volume\_group, file\_system

Name	Description	Schema
<b>description</b> <i>optional</i>	Policy description.	string
<b>file_systems</b> <i>optional</i>	This is the inverse of the resource type file_system association.	< <a href="#">file_system_instance</a> > array
<b>id</b> <i>optional</i>	Unique identifier of the policy.	string
<b>is_replica</b> <i>optional</i>	Indicates whether this is a replica policy, which is applied to replication destination storage resources. A policy of this type is restricted from many operations. <b>Default</b> : <code>false</code>	boolean
<b>name</b> <i>optional</i>	Policy name. This property supports case-insensitive filtering	string
<b>performance_rules</b> <i>optional</i>	List of the performance_rules that are associated with this policy.	< <a href="#">performance_rule_instance</a> > array
<b>replication_rules</b> <i>optional</i>	List of the replication_rules that are associated with this policy.	< <a href="#">replication_rule_instance</a> > array
<b>snapshot_rules</b> <i>optional</i>	List of the snapshot_rules that are associated with this policy.	< <a href="#">snapshot_rule_instance</a> > array
<b>type</b> <i>optional</i>		<a href="#">PolicyTypeEnum</a>

Name	Description	Schema
<b>type_l10n</b> <i>optional</i>	Localized message string corresponding to type	string
<b>virtual_machines</b> <i>optional</i>	This is the inverse of the resource type virtual_machine association.	< <a href="#">virtual_machine_instance</a> > array
<b>volume_groups</b> <i>optional</i>	This is the inverse of the resource type volume_group association.	< <a href="#">volume_group_instance</a> > array
<b>volumes</b> <i>optional</i>	This is the inverse of the resource type volume association.	< <a href="#">volume_instance</a> > array

## policy\_modify

Policy modify request.

Name	Description	Schema
<b>add_replication_rule_ids</b> <i>optional</i>	Replication rule identifiers to be added to this policy.	< string > array
<b>add_snapshot_rule_ids</b> <i>optional</i>	Snapshot rule identifiers to be added to this policy.	< string > array
<b>description</b> <i>optional</i>	Policy description.	string
<b>name</b> <i>optional</i>	Policy name.	string
<b>remove_replication_rule_ids</b> <i>optional</i>	Replication rule identifiers to be removed from this policy.	< string > array
<b>remove_snapshot_rule_ids</b> <i>optional</i>	Snapshot rule identifiers to be removed from this policy.	< string > array



Name	Description	Schema
<b>replication_rule_ids</b> <i>optional</i>	Replication rule identifiers that should replace the current list of replication rule identifiers in this policy.	< string > array
<b>snapshot_rule_ids</b> <i>optional</i>	Snapshot rule identifiers that should replace the current list of snapshot rule identifiers in this policy.	< string > array

## protection\_data\_instance

Protection data associated with a resource. Filtering on the fields of this embedded resource is not supported.

Name	Description	Schema
<b>copy_signature</b> <i>optional</i>	Used for tracking replicated copies of a snapshot set.	string
<b>created_by_rule_id</b> <i>optional</i>	Unique identifier of the snapshot rule that created the snapshot.	string
<b>created_by_rule_name</b> <i>optional</i>	The name of the rule that created the snapshot. This value will not change if the name of the rule changes after creating the snapshot.	string
<b>creator_type</b> <i>optional</i>	StorageCreatorTypeEnum	<a href="#">StorageCreatorTypeEnum</a>
<b>creator_type_localization</b> <i>optional</i>	Localized message string corresponding to creator_type	string
<b>expiration_timestamp</b> <i>optional</i>	Date when the snapshot can be automatically purged.	string (date-time)
<b>family_id</b> <i>optional</i>	Family identifier of the resource. This is the identifier of the primary object at the root of the family tree. For a primary resource this will be the same as the id of the object. For snapshots and clone resources it will be set to the source object's family ID.	string

Name	Description	Schema
<b>is_app_consistent</b> <i>optional</i>	A boolean flag that indicates whether the snapshot is application consistent. Only App Sync can create application consistent snapshots. <b>Default : false</b>	boolean
<b>parent_id</b> <i>optional</i>	Unique identifier of the resource from which a snapshot or clone resource is created. The parent_id is set when a resource is created and will only change if its parent resource is deleted. When a resource is deleted, its children get reparented to the parent of the deleted resource. If the deleted parent is of type Primary, the parent_id of the child resources will be set to null.	string
<b>source_id</b> <i>optional</i>	Unique identifier of the resource from which a snapshot or clone resource is created. The parent_id is set when a resource is created and will only change if its parent resource is deleted. When a resource is deleted, its children get reparented to the parent of the deleted resource. If the deleted parent is of type Primary, the parent_id of the child resources will be set to null.	string
<b>source_timestamp</b> <i>optional</i>	The time at which the resource was sourced from the resource identified by source_id.	string (date-time)

## remote\_system\_create

Create a remote system. For a PowerStore remote system, an x509 Replication HTTP Certificate is a prerequisite. Refer to the x509\_certificate resource type's exchange operation API documentation.

Name	Description	Schema
<b>data_network_latency</b> <i>optional</i>	Network latency choices for remote system. This is applicable to PowerStore remote systems.	<a href="#">RemoteSystemLatencyEnum</a>
<b>description</b> <i>optional</i>	User-specified description of the remote system. <b>Maximal length : 256</b>	string
<b>discovery_chap_mode</b> <i>optional</i>	Indicates the chap mode to be used during discovery. This is applicable to non-PowerStore remote systems.	<a href="#">RemoteSystemChapModeEnum</a>

Name	Description	Schema
<b>import_chap_info</b> <i>optional</i>	Chap information to be used for session and discovery. This is applicable to non-PowerStore remote systems.	<a href="#">chap_credentials_instance</a>
<b>iscsi_addresses</b> <i>optional</i>	iSCSI target IP addresses for the data connection to the remote system. Must be specified when creating a non-PowerStore remote system.	< string (ip-address) > array
<b>management_address</b> <i>required</i>	Management IP address of the remote system instance. Only IPv4 is supported for non-PowerStore remote systems. Both IPv4 and IPv6 are supported for PowerStore remote systems.	string (ip-address)
<b>name</b> <i>optional</i>	User-specified name of the remote system. Used only for non-PowerStore systems. This value must contain 128 or fewer printable Unicode characters. <b>Maximal length : 128</b>	string
<b>remote_password</b> <i>optional</i>	Password used to access the remote system. Used only for non-PowerStore systems.	string (password)
<b>remote_username</b> <i>optional</i>	Username used to access the remote system. Used only for non-PowerStore systems.	string
<b>session_chap_mode</b> <i>optional</i>	Indicates the chap mode to be used for session. This is applicable to non-PowerStore remote systems.	<a href="#">RemoteSystemChapModeEnum</a>
<b>type</b> <i>optional</i>	Type of remote system.	<a href="#">RemoteSystemTypeEnum</a>

## remote\_system\_delete

Delete a remote system and any associated x509 Replication HTTP certificates.

Type : object

## remote\_system\_instance

A remote system.

This resource type has queryable associations from `import_session`, `replication_session`

Name	Description	Schema
<b>data_connection_state</b> <i>optional</i>	State of the data connection.	<a href="#">DataConnectionState Enum</a>
<b>data_connection_state_l10n</b> <i>optional</i>	Localized message string corresponding to data_connection_state	string
<b>data_connections</b> <i>optional</i>	List of data connections from each appliance in the local cluster to iSCSI target IP address.  Filtering on the fields of this embedded resource is not supported.	< <a href="#">data_connection_instance</a> > array
<b>data_network_latency</b> <i>optional</i>	Network latency for the remote system.	<a href="#">RemoteSystemLatencyEnum</a>
<b>data_network_latency_l10n</b> <i>optional</i>	Localized message string corresponding to data_network_latency	string
<b>description</b> <i>optional</i>	User-specified description of the remote system instance.	string
<b>discovery_chap_mode</b> <i>optional</i>	Discovery chap mode for the non-PowerStore remote system.	<a href="#">RemoteSystemChapModeEnum</a>
<b>discovery_chap_mode_l10n</b> <i>optional</i>	Localized message string corresponding to discovery_chap_mode	string
<b>id</b> <i>optional</i>	Unique identifier of the remote system instance.	string
<b>import_sessions</b> <i>optional</i>	This is the inverse of the resource type import_session association.	< <a href="#">import_session_instance</a> > array
<b>iscsi_addresses</b> <i>optional</i>	iSCSI target addresses for the data connection to the remote system.	< string (ip-address) > array

Name	Description	Schema
<b>management_address</b> <i>optional</i>	Management IP address of the remote system instance.	string (ip-address)
<b>name</b> <i>optional</i>	User-specified name of the remote system instance.  This property supports case-insensitive filtering	string
<b>replication_sessions</b> <i>optional</i>	This is the inverse of the resource type replication_session association.	< <a href="#">replication_session_instance</a> > array
<b>serial_number</b> <i>optional</i>	Serial number of the remote system instance.	string
<b>session_chap_mode</b> <i>optional</i>	Session chap mode for the non-PowerStore remote system.	<a href="#">RemoteSystemChapModeEnum</a>
<b>session_chap_mode_l10n</b> <i>optional</i>	Localized message string corresponding to session_chap_mode	string
<b>state</b> <i>optional</i>	Current state of the remote system.	<a href="#">RemoteSystemStateEnum</a>
<b>state_l10n</b> <i>optional</i>	Localized message string corresponding to state	string
<b>type</b> <i>optional</i>	Type of the remote system.	<a href="#">RemoteSystemTypeEnum</a>
<b>type_l10n</b> <i>optional</i>	Localized message string corresponding to type	string
<b>user_name</b> <i>optional</i>	Username used to access the non-PowerStore remote systems.	string

## remote\_system\_modify

Modify the remote system.

Name	Description	Schema
<b>data_network_latency</b> <i>optional</i>	Network latency for the PowerStore remote system.	<a href="#">RemoteSystemLatencyEnum</a>
<b>description</b> <i>optional</i>	User-specified description of the remote system. <b>Maximal length : 256</b>	string
<b>management_address</b> <i>optional</i>	Management IP address of the remote system.	string (ip-address)
<b>name</b> <i>optional</i>	User-specified name of the remote system. Used only for non-PowerStore type remote systems. This value must contain 128 or fewer printable Unicode characters. <b>Maximal length : 128</b>	string
<b>remote_password</b> <i>optional</i>	Password used to access the remote system. Used only for non-PowerStore systems.	string (password)
<b>remote_username</b> <i>optional</i>	Username used to access the remote system. Used only for non-PowerStore systems.	string

## remote\_system\_verify

Verify the remote system.

Type : object

## replication\_element\_pair

Replication session element pair which maps the local storage element to the remote storage element.

Name	Description	Schema
<b>local_storage_element_id</b> <i>required</i>	Unique identifier of a local storage element.	string
<b>remote_storage_element_id</b> <i>required</i>	Unique identifier of a remote storage element.	string

Name	Description	Schema
<b>replication_shadow_id</b> <i>optional</i>	Unique identifier of the internal snap used for replicating data.	string
<b>storage_element_type</b> <i>optional</i>	Storage element type.	<a href="#">StorageElementTypeEnum</a>

## replication\_rule\_create

Replication rule create request.

Name	Description	Schema
<b>alert_threshold</b> <i>optional</i>	Acceptable delay in minutes between the expected and actual replication sync intervals. The system generates an alert if the delay between the expected and actual sync exceeds this threshold. Alert threshold has the default value of one RPO in minutes. <b>Minimum value : 0</b> <b>Maximum value : 1440</b>	integer (int32)
<b>name</b> <i>required</i>	Name of the replication rule.	string
<b>remote_system_id</b> <i>required</i>	Unique identifier of the remote system to which this rule will replicate the associated resources.	string
<b>rpo</b> <i>required</i>		<a href="#">RPOEnum</a>

## replication\_rule\_instance

Properties of the replication rule. This resource type has queriable associations from policy, replication\_session

Name	Description	Schema
<b>alert_threshold</b> <i>optional</i>	Acceptable delay in minutes between the expected and actual replication sync intervals. The system generates an alert if the delay between the expected and actual sync exceeds this threshold. Alert threshold has the default value of one RPO in minutes. <b>Minimum value</b> : 0 <b>Maximum value</b> : 1440	integer (int32)
<b>id</b> <i>optional</i>	Unique identifier of the replication rule.	string
<b>is_replica</b> <i>optional</i>	Indicates if this is a replica of a rule or policy on a remote system that is the source of a replication session replicating a resource to the local system. <b>Default</b> : false	boolean
<b>name</b> <i>optional</i>	Name of the replication rule. This property supports case-insensitive filtering	string
<b>policies</b> <i>optional</i>	List of the policies that are associated with this replication_rule.	< <a href="#">policy_instance</a> > array
<b>remote_system_id</b> <i>optional</i>	Unique identifier of the remote system to which this rule will replicate the associated resources.	string
<b>replication_sessions</b> <i>optional</i>	This is the inverse of the resource type replication_session association.	< <a href="#">replication_session_instance</a> > array
<b>rpo</b> <i>optional</i>		<a href="#">RPOEnum</a>
<b>rpo_l10n</b> <i>optional</i>	Localized message string corresponding to rpo	string

## replication\_rule\_modify

Replication rule modify request.



Name	Description	Schema
<b>alert_threshold</b> <i>optional</i>	Acceptable delay in minutes between the expected and actual replication sync intervals. The system generates an alert if the delay between the expected and actual sync exceeds this threshold. <b>Minimum value : 0</b> <b>Maximum value : 1440</b>	integer (int32)
<b>name</b> <i>optional</i>	Name of the replication rule.	string
<b>remote_system_id</b> <i>optional</i>	Unique identifier of the remote system to which this rule will replicate the associated resources.	string
<b>rpo</b> <i>optional</i>		RPOEnum

## replication\_session\_failover

Parameters to fail over a replication session.

Name	Description	Schema
<b>force</b> <i>optional</i>	Indicates whether an unplanned failover needs to be done for a session that is already in failed over state <b>Default : false</b>	boolean
<b>is_planned</b> <i>optional</i>	Indicates whether the replication session failover is planned or unplanned. For planned failovers, the value is true. For unplanned failovers, the value is false. <b>Default : true</b>	boolean
<b>reverse</b> <i>optional</i>	Indicates whether the system is auto-protected. Auto-protect is combination of failover and reprotect. <b>Default : false</b>	boolean

## replication\_session\_instance

A replication session.

This resource type has queryable associations from `remote_system`, `migration_session`, `replication_rule`

Name	Description	Schema
<b>estimated_completion_timestamp</b> <i>optional</i>	Estimated completion time of the current replication operation.	string (date-time)
<b>id</b> <i>optional</i>	Unique identifier of the replication session instance.	string
<b>last_sync_time_stamp</b> <i>optional</i>	Time of last successful synchronization.	string (date-time)
<b>local_resource_id</b> <i>optional</i>	Unique identifier of the local storage resource for the replication session.	string
<b>migration_session</b> <i>optional</i>	This is the embeddable reference form of migration_session_id attribute.	<a href="#">migration_session_instance</a>
<b>progress_percentage</b> <i>optional</i>	Progress of the current replication operation. <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>remote_resource_id</b> <i>optional</i>	Unique identifier of the remote storage resource for the replication session.	string
<b>remote_system</b> <i>optional</i>	This is the embeddable reference form of remote_system_id attribute.	<a href="#">remote_system_instance</a>
<b>remote_system_id</b> <i>optional</i>	Unique identifier of the remote system instance.	string
<b>replication_rule</b> <i>optional</i>	This is the embeddable reference form of replication_rule_id attribute.	<a href="#">replication_rule_instance</a>
<b>replication_rule_id</b> <i>optional</i>	Associated replication rule instance if created by policy engine.	string

Name	Description	Schema
<b>resource_type</b> <i>optional</i>	Type of the storage resource.	<a href="#">ReplicatedResourceTypeEnum</a>
<b>resource_type_110n</b> <i>optional</i>	Localized message string corresponding to resource_type	string
<b>role</b> <i>optional</i>	Role of the replication session.	<a href="#">ReplicationRoleEnum</a>
<b>role_110n</b> <i>optional</i>	Localized message string corresponding to role	string
<b>state</b> <i>optional</i>	Current state of the replication session.	<a href="#">ReplicationStateEnum</a>
<b>state_110n</b> <i>optional</i>	Localized message string corresponding to state	string
<b>storage_element_pairs</b> <i>optional</i>	<p>List of storage element pairs for a replication session. For a volume or volume group replication session, the replicating storage elements are of type 'volume'. For a virtual volume replication session, the replicating storage elements are of type 'virtual volume'. For a volume group replication session, there will be as many pairs of storage elements as the number of volumes in the volume group. For volume/virtual volume replication session, there will be only one storage element pair.</p> <p>Filtering on the fields of this embedded resource is not supported.</p>	< <a href="#">replication_element_pair</a> > array

## role\_instance

Name	Description	Schema
<b>description</b> <i>optional</i>	Description of the role.	string
<b>id</b> <i>optional</i>	Unique identifier of the role.	string

Name	Description	Schema
<b>is_built_in</b> <i>optional</i>	Indicates whether the role is built-in.	boolean
<b>name</b> <i>optional</i>	Name of the role.	string

## sas\_port\_instance

This resource type has queryable associations from appliance, hardware, sas\_port

Name	Description	Schema
<b>appliance</b> <i>optional</i>	This is the embeddable reference form of appliance_id attribute.	<a href="#">appliance_instance</a>
<b>appliance_id</b> <i>optional</i>	Unique identifier of the appliance containing the port.	string
<b>id</b> <i>optional</i>	Unique identifier of the SAS port.	string
<b>io_module</b> <i>optional</i>	This is the embeddable reference form of io_module_id attribute.	<a href="#">hardware_instance</a>
<b>io_module_id</b> <i>optional</i>	Unique identifier of the hardware instance of type 'IO_Module' handling the port.	string
<b>is_link_up</b> <i>optional</i>	Indicates whether the SAS port's link is up. Values are:  <b>true</b> Link is up.  <b>false</b> Link is down.	boolean
<b>name</b> <i>optional</i>	Name of the SAS port. This property supports case-insensitive filtering	string
<b>node</b> <i>optional</i>	This is the embeddable reference form of node_id attribute.	<a href="#">hardware_instance</a>
<b>node_id</b> <i>optional</i>	Unique identifier of the hardware instance of type 'Node' containing the port.	string

Name	Description	Schema
<b>partner</b> <i>optional</i>	This is the embeddable reference form of partner_id attribute.	<a href="#">sas_port_instance</a>
<b>partner_id</b> <i>optional</i>	Unique identifier of the SAS partner port.	string
<b>port_index</b> <i>optional</i>	Index of the SAS port in IO module. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>sfp</b> <i>optional</i>	This is the embeddable reference form of sfp_id attribute.	<a href="#">hardware_instance</a>
<b>sfp_id</b> <i>optional</i>	Unique identifier of the hardware instance of type 'SFP' (Small Form-factor Pluggable) inserted into the port.	string
<b>speed</b> <i>optional</i>		<a href="#">SasPortSpeedEnum</a>
<b>speed_l10n</b> <i>optional</i>	Localized message string corresponding to speed	string

## sc\_profile\_rule\_instance

Snapshot profile rule.

Name	Description	Schema
<b>date_of_month</b> <i>optional</i>	Dates of the month in which a snapshot will be taken.	< integer > array
<b>day_of_week</b> <i>optional</i>	Days of the week in which a snapshot will be taken.	< <a href="#">DayOfWeekEnum</a> > array
<b>day_of_week_l10n</b> <i>optional</i>	Localized message array corresponding to day_of_week	< string > array
<b>end_time</b> <i>optional</i>	Time when snapshot creation will stop.	string (timestamp)

Name	Description	Schema
<b>expiration</b> <i>optional</i>	Length of time to keep snapshots before deleting them, in minutes. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>frequency</b> <i>optional</i>	Frequency at which the snapshot will be taken.	<a href="#">ScScheduleTypeEnum</a>
<b>frequency_l10n</b> <i>optional</i>	Localized message string corresponding to frequency	string
<b>interval</b> <i>optional</i>	Time interval between any two snapshot creations, in minutes. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>month_of_year</b> <i>optional</i>	Months of the year in which a snapshot will be taken.	< <a href="#">MonthOfYearEnum</a> > array
<b>month_of_year_l10n</b> <i>optional</i>	Localized message array corresponding to month_of_year	< string > array
<b>name</b> <i>optional</i>	Name of the snapshot profile rule.	string
<b>start_date_time</b> <i>optional</i>	Date and time when the snapshot will be created. This applies to the value Once in the ScScheduleTypeEnum.	string (date-time)
<b>start_time</b> <i>optional</i>	Time when snapshot creation will start.	string (timestamp)
<b>week_of_month</b> <i>optional</i>	Weeks of the month in which a snapshot will be taken.	< <a href="#">WeekOfMonthEnum</a> > array
<b>week_of_month_l10n</b> <i>optional</i>	Localized message array corresponding to week_of_month	< string > array

## security\_config\_instance

Name	Description	Schema
<b>id</b> <i>optional</i>	Unique identifier of the system security configuration.	string
<b>idle_timeout</b> <i>optional</i>	Idle time (in seconds) after which login sessions will expire and require re-authentication. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)

## service\_config\_instance

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Unique identifier of the appliance.	string
<b>id</b> <i>optional</i>	Unique identifier for the service configuration instance.	string
<b>is_ssh_enabled</b> <i>optional</i>	The current ssh service access state. <b>true</b> SSH access is enabled <b>false</b> SSH access is disabled	boolean

## service\_config\_modify

Name	Description	Schema
<b>is_ssh_enabled</b> <i>required</i>	Current SSH service access state. <b>true</b> Enables SSH access <b>false</b> Disables SSH access	boolean

## service\_user\_instance

Name	Description	Schema
<b>id</b> <i>optional</i>	Unique identifier of the service user account.	string
<b>is_built_in</b> <i>optional</i>	Whether the user account is built-in or not.	boolean
<b>is_default_password</b> <i>optional</i>	Whether the user account has the default password or not.	boolean
<b>name</b> <i>optional</i>	Name of the service user account. Always 'service' in this release.	string

## service\_user\_modify

Name	Description	Schema
<b>password</b> <i>required</i>	New password for the service user account. The password value can be 8 to 40 UTF-8 characters long, and include as a minimum one uppercase character, one lowercase character, one numeric character, and one special character from this list [!,@#\$%^*>_~].	string (password)

## smb\_server\_create

Arguments for the SMB server create operation. **Note that domain SMB servers must be explicitly joined to the Active Directory using the join action before it can be accessed** To create a standalone SMB server, set the `is_standalone` option to true and specify the following mandatory parameters: - `nethbios_name` - `workgroup` For domain SMB servers, set the `is_standalone` option to false and specify the following mandatory parameters: - `computer_name` - `domain` For both cases, you must also specify a password for the local administrator of the SMB server using the `local_admin_password` option.



Name	Description	Schema
<b>computer_name</b> <i>optional</i>	DNS name of the associated computer account when the SMB server is joined to an Active Directory domain. This name is limited to 63 bytes and must not contain the following characters - - comma (,) - tilde (~) - colon (:) - exclamation point (!) - at sign (@) - number sign (#) - dollar sign (\$) - percent (%) - caret (^) - ampersand (&) - apostrophe (') - period (.) - note that if you enter string with period only the first word will be kept - parentheses (()) - braces ({} ) - underscore (_) - white space (blank) as defined by the Microsoft naming convention (see <a href="https://support.microsoft.com/en-us/help/909264/">https://support.microsoft.com/en-us/help/909264/</a> ) <b>Length : 1 - 63</b>	string
<b>description</b> <i>optional</i>	Description of the SMB server in UTF-8 characters. <b>Length : 0 - 48</b>	string
<b>domain</b> <i>optional</i>	Domain name where SMB server is registered in Active Directory, if applicable. <b>Length : 1 - 255</b>	string
<b>is_standalone</b> <i>required</i>	Indicates whether the SMB server is standalone. Values are: - true - SMB server is standalone. - false - SMB server is joined to the Active Directory.	boolean
<b>local_admin_password</b> <i>required</i>	Regardless of the type of the SMB server, standalone or in the domain, a local administrator user must be created. local_admin_password is the password of this user. <b>Length : 0 - 512</b>	string (password)
<b>nas_server_id</b> <i>required</i>	Unique identifier of the NAS server.	string

Name	Description	Schema
<b>netbios_name</b> <i>optional</i>	NetBIOS name is the network name of the standalone SMB server. SMB servers joined to Active Directory also have NetBIOS Name, defaulted to the 15 first characters of the computer_name attribute. Administrators can specify a custom NetBIOS Name for a SMB server using this attribute. NetBIOS name is limited to 15 characters and cannot contain the following characters - - backslash () - slash mark (/) - colon (:) - asterisk (*) - question mark (?) - quotation mark (") - less than sign (<) - greater than sign (>) - vertical bar ( ) as defined by the Microsoft naming convention (see <a href="https://support.microsoft.com/en-us/help/909264/">https://support.microsoft.com/en-us/help/909264/</a> ) <b>Length : 1 - 15</b>	string
<b>workgroup</b> <i>optional</i>	Applies to standalone SMB servers only. Windows network workgroup for the SMB server. Workgroup names are limited to 15 alphanumeric ASCII characters. <b>Length : 1 - 15</b>	string

## smb\_server\_delete

Arguments for the SMB server delete operation.

Name	Description	Schema
<b>force</b> <i>optional</i>	If false, the delete will fail if the SMB server is still joined, else the SMB server is deleted but AD account is not removed.	boolean

## smb\_server\_instance

This resource type has queryable association from nas\_server

Name	Description	Schema
<b>computer_name</b> <i>optional</i>	DNS name of the associated computer account when the SMB server is joined to an Active Directory domain. This name's minimum length is 2 characters, it is limited to 63 bytes and must not contain the following characters - - comma (,) - tilde (~) - colon (:) - exclamation point (!) - at sign (@) - number sign (#) - dollar sign (\$) - percent (%) - caret (^) - ampersand (&) - apostrophe (') - period (.) - note that if you enter string with period only the first word will be kept - parentheses (()) - braces ({} - underscore (_) - white space (blank) as defined by the Microsoft naming convention (see <a href="https://support.microsoft.com/en-us/help/909264/">https://support.microsoft.com/en-us/help/909264/</a> )	string
<b>description</b> <i>optional</i>	Description of the SMB server.	string
<b>domain</b> <i>optional</i>	Domain name where SMB server is registered in Active Directory, if applicable.	string
<b>id</b> <i>optional</i>	Unique identifier of the SMB server.	string
<b>is_joined</b> <i>optional</i>	Indicates whether the SMB server is joined to the Active Directory. Always false for standalone SMB servers.	boolean
<b>is_standalone</b> <i>optional</i>	Indicates whether the SMB server is standalone. Values are: - true - SMB server is standalone. - false - SMB server is a domain SMB server to be joined to the Active Directory.	boolean
<b>nas_server</b> <i>optional</i>	This is the embeddable reference form of nas_server_id attribute.	<a href="#">nas_server_instance</a>
<b>nas_server_id</b> <i>optional</i>	Unique identifier of the NAS server.	string

Name	Description	Schema
<b>netbios_name</b> <i>optional</i>	NetBIOS name is the network name of the standalone SMB server. SMB server joined to Active Directory also have NetBIOS Name, defaulted to the 15 first characters of the computerName attribute. Administrators can specify a custom NetBIOS Name for a SMB server using this attribute. NetBIOS Name are limited to 15 characters and cannot contain the following characters - - backslash () - slash mark (/) - colon (:) - asterisk (*) - question mark (?) - quotation mark (") - less than sign (<) - greater than sign (>) - vertical bar ( ) as defined by the Microsoft naming convention (see <a href="https://support.microsoft.com/en-us/help/909264/">https://support.microsoft.com/en-us/help/909264/</a> )	string
<b>workgroup</b> <i>optional</i>	Applies to stand-alone SMB servers only. Windows network workgroup for the SMB server. Workgroup names are limited to 15 alphanumeric ASCII characters.	string

## smb\_server\_join

Argument to join the SMB server to a Active Directory domain.

Name	Description	Schema
<b>domain_password</b> <i>required</i>	Password of the domain-user specified to join the Active Directory domain.	string (password)
<b>domain_username</b> <i>required</i>	Name of a domain-user with sufficient privileges to join the Active Directory domain.	string
<b>organizational_unit</b> <i>optional</i>	Organizational unit of the SMB server in Active Directory, if applicable.	string
<b>reuse_computer_account</b> <i>optional</i>	If set to yes: try to reuse the existing SMB server account in the Active Directory when joining. <b>Default : false</b>	boolean

## smb\_server\_modify

Arguments for the SMB server modify operation.

Name	Description	Schema
<b>computer_name</b> <i>optional</i>	DNS Name of the associated Computer Account when the SMB server is joined to an Active Directory domain. This name is limited to 63 bytes and must not contain the following characters - - comma (,) - tilde (~) - colon (:) - exclamation point (!) - at sign (@) - number sign (#) - dollar sign (\$) - percent (%) - caret (^) - ampersand (&) - apostrophe (') - period (.) - note that if you enter string with period only the first word will be kept - parentheses (()) - braces ({} ) - underscore (_) - white space (blank) as defined by the Microsoft naming convention (see <a href="https://support.microsoft.com/en-us/help/909264/">https://support.microsoft.com/en-us/help/909264/</a> ) <b>Length : 1 - 63</b>	string
<b>description</b> <i>optional</i>	Description of the SMB server in UTF-8 characters. <b>Length : 0 - 48</b>	string
<b>domain</b> <i>optional</i>	Domain name where SMB server is registered in Active Directory, if applicable. <b>Length : 1 - 255</b>	string
<b>is_standalone</b> <i>optional</i>	Indicates whether the SMB server is standalone. Values are: - true - SMB server is standalone. - false - SMB server is joined to the Active Directory.	boolean
<b>local_admin_password</b> <i>optional</i>	Password for the local administrator account of the SMB server. <b>Length : 0 - 512</b>	string (password)
<b>netbios_name</b> <i>optional</i>	NetBIOS name is the network name of the standalone SMB server. SMB servers joined to Active Directory also have NetBIOS Name, defaulted to the 15 first characters of the computer_name attribute. Administrators can specify a custom NetBIOS Name for an SMB server using this attribute. NetBIOS name is limited to 15 characters and cannot contain the following characters - - backslash (\) - slash mark (/) - colon (:) - asterisk (*) - question mark (?) - quotation mark (") - less than sign (<) - greater than sign (>) - vertical bar ( ) as defined by the Microsoft naming convention (see <a href="https://support.microsoft.com/en-us/help/909264/">https://support.microsoft.com/en-us/help/909264/</a> )	string

Name	Description	Schema
<b>workgroup</b> <i>optional</i>	Applies to standalone SMB servers only. Windows network workgroup for the SMB server. Workgroup names are limited to 15 alphanumeric ASCII characters. <b>Length : 1 - 15</b>	string

## smb\_server\_unjoin

Argument to unjoin the SMB server from an Active Directory domain. `domain_user_name` and `domain_password` are mandatory if `is_skip_AD_unjoin` is false

Name	Description	Schema
<b>domain_password</b> <i>optional</i>	Password of the domain-user specified to unjoin from the Active Directory domain.	string (password)
<b>domain_user_name</b> <i>optional</i>	Name of a domain-user with sufficient privileges to unjoin from the Active Directory domain.	string
<b>is_skip_AD_unjoin</b> <i>optional</i>	If set to yes: Will not remove the account from the Active Directory. This is to be used in case that no DC is available. <b>Default : false</b>	boolean

## smb\_share\_create

Name	Description	Schema
<b>description</b> <i>optional</i>	SMB share description. <b>Length : 0 - 511</b>	string
<b>file_system_id</b> <i>required</i>	Unique identifier of the file system on which the SMB Share will be created.	string
<b>is_ABE_enabled</b> <i>optional</i>	Indicates whether Access-based Enumeration (ABE) is enabled. ABE filters the list of available files and folders on a server to include only those to which the requesting user has access. Values are: - true - ABE is enabled. - false - ABE is disabled. <b>Default : false</b>	boolean

Name	Description	Schema
<b>is_branch_cache_enabled</b> <i>optional</i>	Indicates whether BranchCache optimization is enabled. BranchCache optimization technology copies content from your main office or hosted cloud content servers and caches the content at branch office locations, allowing client computers at branch offices to access the content locally rather than over the WAN. Values are: - true - BranchCache is enabled. - false - BranchCache is disabled. <b>Default : false</b>	boolean
<b>is_continuous_availability_enabled</b> <i>optional</i>	Indicates whether continuous availability for Server Message Block (SMB) 3.0 is enabled for the SMB Share. Values are: - true - Continuous availability for SMB 3.0 is enabled for the SMB Share. - false - Continuous availability for SMB 3.0 is disabled for the SMB Share. <b>Default : false</b>	boolean
<b>is_encryption_enabled</b> <i>optional</i>	Indicates whether encryption for Server Message Block (SMB) 3.0 is enabled at the shared folder level. Values are: - true - encryption for SMB 3.0 is enabled. - false - encryption for SMB 3.0 is disabled. <b>Default : false</b>	boolean
<b>name</b> <i>required</i>	SMB share name. <b>Length : 1 - 80</b>	string
<b>offline_availability</b> <i>optional</i>		<a href="#">SMBShareOfflineAvailabilityEnum</a>
<b>path</b> <i>required</i>	Local path to the file system or any existing sub-folder of the file system that is shared over the network. This path is relative to the NAS Server and must start with the filesystem's mountpoint path, which is the filesystem name. For example to share the top-level of a filesystem named svr1fs1, which is on the /svr1fs1 mountpoint of the NAS Server, use /svr1fs1 in the path parameter. SMB shares allow you to create multiple network shares for the same local path.	string
<b>umask</b> <i>optional</i>	The default UNIX umask for new files created on the Share. If not specified the umask defaults to 022. <b>Default : "022"</b>	string

# smb\_share\_instance

This resource type has queriable association from file\_system

Name	Description	Schema
<b>description</b> <i>optional</i>	User defined SMB share description.	string
<b>file_system</b> <i>optional</i>	This is the embeddable reference form of file_system_id attribute.	<a href="#">file_system_instance</a>
<b>file_system_id</b> <i>optional</i>	The file system from which the share was created.	string
<b>id</b> <i>optional</i>	Id of the SMB Share.	string
<b>is_ABE_enabled</b> <i>optional</i>	Indicates whether Access-based Enumeration (ABE) is enabled. ABE filters the list of available files and folders on a server to include only those to which the requesting user has access. Values are: - true - ABE is enabled. - false - ABE is disabled.	boolean
<b>is_branch_cache_enabled</b> <i>optional</i>	Indicates whether BranchCache optimization is enabled. BranchCache optimization technology copies content from your main office or hosted cloud content servers and caches the content at branch office locations, allowing client computers at branch offices to access the content locally rather than over the WAN. Values are: - true - BranchCache is enabled. - false - BranchCache is disabled.	boolean
<b>is_continuous_availability_enabled</b> <i>optional</i>	Indicates whether continuous availability for Server Message Block (SMB) 3.0 is enabled for the SMB Share. Values are: - true - Continuous availability for SMB 3.0 is enabled for the SMB Share. - false - Continuous availability for SMB 3.0 is disabled for the SMB Share.	boolean
<b>is_encryption_enabled</b> <i>optional</i>	Indicates whether encryption for Server Message Block (SMB) 3.0 is enabled at the shared folder level. Values are: - true - Encryption for SMB 3.0 is enabled. - false - Encryption for SMB 3.0 is disabled.	boolean
<b>name</b> <i>optional</i>	SMB share name. This property supports case-insensitive filtering	string



Name	Description	Schema
<b>offline_availability</b> <i>optional</i>		<a href="#">SMBShareOfflineAvailabilityEnum</a>
<b>offline_availability_l10n</b> <i>optional</i>	Localized message string corresponding to offline_availability	string
<b>path</b> <i>optional</i>	Local path to the file system or any existing sub-folder of the file system that is shared over the network. This path is relative to the NAS Server and must start with the filesystem's mountpoint path, which is the filesystem name. For example to share the top-level of a filesystem named svr1fs1, which is on the /svr1fs1 mountpoint of the NAS Server, use /svr1fs1 in the path parameter. SMB shares allow you to create multiple network shares for the same local path.	string
<b>umask</b> <i>optional</i>	The default UNIX umask for new files created on the Share. If not specified the umask defaults to 022. <b>Default : "022"</b>	string

## smb\_share\_modify

Name	Description	Schema
<b>description</b> <i>optional</i>	NFS Share description. <b>Length : 0 - 511</b>	string
<b>is_ABE_enabled</b> <i>optional</i>	Indicates whether Access-based Enumeration (ABE) is enabled. ABE filters the list of available files and folders on a server to include only those, that the requesting user has access to. Values are: - true - ABE is enabled. - false - ABE is disabled.	boolean
<b>is_branch_cache_enabled</b> <i>optional</i>	Indicates whether BranchCace optimization is enabled. BranchCache optimization technology copies content from your main office or hosted cloud content servers and caches the content at branch office locations, allowing client computers at branch offices to access the content locally rather than over the WAN. Values are: - true - BranchCache is enabled. - false - BranchCache is disabled.	boolean

Name	Description	Schema
<b>is_continuous_availability_enabled</b> <i>optional</i>	Indicates whether continuous availability for Server Message Block (SMB) 3.0 is enabled for the SMB Share. Values are: - true - Continuous availability for SMB 3.0 is enabled for the SMB Share. - false - Continuous availability for SMB 3.0 is disabled for the SMB Share.	boolean
<b>is_encryption_enabled</b> <i>optional</i>	Indicates whether encryption for Server Message Block (SMB) 3.0 is enabled at the shared folder level. Values are: - true - encryption for SMB 3.0 is enabled. - false - encryption for SMB 3.0 is disabled.	boolean
<b>offline_availability</b> <i>optional</i>		<a href="#">SMBShareOfflineAvailabilityEnum</a>
<b>umask</b> <i>optional</i>	The default UNIX umask for new files created on the Share.	string

## smtp\_config\_instance

Name	Description	Schema
<b>address</b> <i>optional</i>	IP address of the SMTP server.	string (ip-address)
<b>id</b> <i>optional</i>	Unique identifier of the SMTP configuration. This value is always '0'.	string
<b>port</b> <i>optional</i>	Port used for sending SMTP messages. <b>Minimum value</b> : 0 <b>Maximum value</b> : 65535	integer (int32)
<b>source_email</b> <i>optional</i>	Source email address used for sending SMTP messages.	string

## smtp\_config\_modify

Name	Description	Schema
<b>address</b> <i>optional</i>	IP address of the SMTP server.	string (ip-address)

Name	Description	Schema
<b>port</b> <i>optional</i>	Port used for sending SMTP messages. <b>Minimum value</b> : 0 <b>Maximum value</b> : 65535	integer (int32)
<b>source_email</b> <i>optional</i>	Source email address used for sending SMTP messages.	string

## smtp\_config\_test

Name	Description	Schema
<b>email_address</b> <i>optional</i>	Destination email address for the test.	string

## snapshot\_rule\_create

Snapshot rule create request.

Name	Description	Schema
<b>days_of_week</b> <i>optional</i>	Days of the week when the rule should be applied. Applies only for rules where the time_of_day parameter is set.	< <a href="#">DaysOfWeekEnum</a> > array
<b>desired_retention</b> <i>required</i>	Desired snapshot retention period in hours. The system will retain snapshots for this time period, if space is available. <b>Minimum value</b> : 1 <b>Maximum value</b> : 8760	integer (int32)
<b>interval</b> <i>optional</i>		<a href="#">SnapRuleIntervalEnum</a>
<b>name</b> <i>required</i>	Snapshot rule name.	string
<b>time_of_day</b> <i>optional</i>	Time of the day to take a daily snapshot, with format "hh:mm" in 24 hour time format. Either the interval parameter or the time_of_day parameter may be set, but not both.	string (timestamp)

## snapshot\_rule\_delete

Snapshot rule delete request.

Name	Description	Schema
<b>delete_snaps</b> <i>optional</i>	Specify whether all snapshots previously created by this rule should also be deleted when this rule is removed. <b>Default : false</b>	boolean

## snapshot\_rule\_instance

Snapshot rule instance. This resource type has queriable association from policy

Name	Description	Schema
<b>days_of_week</b> <i>optional</i>	Days of the week when the rule should be applied. Applies only for rules where the time_of_day parameter is set.	< <a href="#">DaysOfWeekEnum</a> > array
<b>days_of_week_l10n</b> <i>optional</i>	Localized message array corresponding to days_of_week	< string > array
<b>desired_retention</b> <i>optional</i>	Desired snapshot retention period in hours. The system will retain snapshots for this time period, if space is available. <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>id</b> <i>optional</i>	Unique identifier of the snapshot rule.	string
<b>interval</b> <i>optional</i>		<a href="#">SnapRuleIntervalEnum</a>
<b>interval_l10n</b> <i>optional</i>	Localized message string corresponding to interval	string
<b>is_replica</b> <i>optional</i>	Indicates if this is a replica of a rule or policy on a remote system that is the source of a replication session replicating a resource to the local system. <b>Default : false</b>	boolean
<b>name</b> <i>optional</i>	Snapshot rule name. This property supports case-insensitive filtering	string
<b>policies</b> <i>optional</i>	List of the policies that are associated with this snapshot_rule.	< <a href="#">policy_instance</a> > array

Name	Description	Schema
<b>time_of_day</b> <i>optional</i>	Time of the day to take a daily snapshot, with format "hh:mm" in 24 hour time format. Either the interval parameter or the time_of_day parameter will be set, but not both.	string (timestamp)

## snapshot\_rule\_modify

Snapshot rule modify request.

Name	Description	Schema
<b>days_of_week</b> <i>optional</i>	Days of the week when the rule should be applied. Applies only for rules where the time_of_day parameter is set.	< <a href="#">DaysOfWeekEnum</a> > array
<b>desired_retention</b> <i>optional</i>	Desired snapshot retention period in hours. The system will retain snapshots for this time period, if space is available. <b>Minimum value : 1</b> <b>Maximum value : 8760</b>	integer (int32)
<b>interval</b> <i>optional</i>		<a href="#">SnapRuleIntervalEnum</a>
<b>name</b> <i>optional</i>	Snapshot rule name.	string
<b>time_of_day</b> <i>optional</i>	Time of the day to take a daily snapshot, with format "hh:mm" in 24 hour time format. Either the interval parameter or the time_of_day parameter may be set, but not both.	string (timestamp)

## software\_installed\_instance

Summary of the software packages that are installed on each appliance, or on the cluster as a whole. This resource type has queriable association from appliance

Name	Description	Schema
<b>appliance</b> <i>optional</i>	This is the embeddable reference form of appliance_id attribute.	<a href="#">appliance_instance</a>
<b>id</b> <i>optional</i>	Unique identifier of the installed software instance.	string

Name	Description	Schema
<b>installed_date</b> <i>optional</i>	Date and time when the software was successfully installed and committed on the cluster. If the software package has not been committed, this value is null.	string (date-time)
<b>is_cluster</b> <i>optional</i>	Whether this information represents the common software release version that is supported on all appliances in the cluster. The value is true for the instance representing the cluster. The value is false for appliance software instances.	boolean
<b>release_timestamp</b> <i>optional</i>	Date and time when this software package was produced.	string (date-time)
<b>release_version</b> <i>optional</i>	Version of the installed release software package release.	string

## software\_package\_install

Install the software package.

Type : object

## software\_package\_instance

A software package contains all of the content required to upgrade the cluster to the version specified in the release\_version property.

Name	Description	Schema
<b>description_1</b> <b>On</b> <i>optional</i>	Summary of the contents in this package.	string
<b>id</b> <i>optional</i>	Unique identifier of the software package.	string
<b>installed_date</b> <i>optional</i>	Date and time when this software package was successfully installed and committed on the cluster. If the software package has not been committed, this value is null.	string (date-time)
<b>is_reboot_required</b> <i>optional</i>	Whether a reboot is required during the upgrade process.	boolean

Name	Description	Schema
<b>justification_10n</b> <i>optional</i>	Explanation of why this software release is recommended for this cluster.	string
<b>name</b> <i>optional</i>	Name of the software package. This property supports case-insensitive filtering	string
<b>release_timestamp</b> <i>optional</i>	Date and time when this software package was produced.	string (date-time)
<b>release_version</b> <i>optional</i>	Version number of the software package.	string
<b>size</b> <i>optional</i>	File size of the software package in bytes. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>software_package_state</b> <i>optional</i>		<a href="#">SoftwarePackageStateEnum</a>
<b>software_package_state_110n</b> <i>optional</i>	Localized message string corresponding to software_package_state	string
<b>software_package_type</b> <i>optional</i>		<a href="#">SoftwarePackageTypeEnum</a>
<b>software_package_type_110n</b> <i>optional</i>	Localized message string corresponding to software_package_type	string

## space\_metrics\_by\_appliance

Space metrics for the appliance collected at five minute interval.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
<b>data_physical_used</b> <i>optional</i>	This metric represents amount of physical space user data occupies after deduplication and compression. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>data_reduction</b> <i>optional</i>	Ratio of the logical used space to data physical used space which is after deduplication and compression.	number (float)
<b>efficiency_ratio</b> <i>optional</i>	The overall efficiency is computed as a ratio of the total space provisioned to physical used space. For example, ten 2 GB volumes were provisioned and 1 GB of data is written to each of them. Each of the volumes has one snapshot as well, for another ten 2 GB volumes. All volumes are thinly provisioned with deduplication and compression applied, there is 4 GB of physical space used. Overall efficiency would be (20 * 2 GB) / 4 GB or 10:1. The efficiency_ratio value will be 10 in this example.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>logical_provisioned</b> <i>optional</i>	Total configured size of all storage objects on an appliance. This metric includes all primaries, snaps and clones. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>logical_used</b> <i>optional</i>	Amount of data in bytes written to all storage objects on an appliance, without any deduplication and/or compression. This metric includes all primaries, snaps and clones. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>physical_total</b> <i>optional</i>	Total combined space on the physical drives of the appliance available for data. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)



Name	Description	Schema
<b>physical_used</b> <i>optional</i>	Total physical space consumed in the appliance, accounting for all efficiency mechanisms, as well as all data protection. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>shared_logical_used</b> <i>optional</i>	Amount of space the volume family needs to hold the data written by host and shared by snaps and fast-clones in the family. This does not include deduplication or compression. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>snapshot_savings</b> <i>optional</i>	Ratio of the amount of space that would have been used by snapshots if space efficiency was not applied to logical space used solely by snapshots. For example, an object is provisioned as 1 GB and it has two snapshots. Each snapshot has 200 MB of data. Snapshot savings will be (1 GB + 1 GB) / (0.2 GB + 0.2 GB) or 5:1. The snapshot_savings value will be 5 in this case.	number (float)
<b>thin_savings</b> <i>optional</i>	Ratio of all the vVol provisioned to data they contain. This is the ratio of logical_provisioned to logical_used. For example, a cluster has two 2 GB objects and have written 500 MB bytes of data to them. The thin savings would be (2 * 2 GB) / (2 * 0.5 GB) or 4:1, so the thin_savings value would be 4.0.	number (float)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

## space\_metrics\_by\_appliance\_rollup

Summary of appliance level space metric data for a specific period of time, beginning with timestamp and including the maximum and final values for that period. Current support is for a time period of one hour and one day.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>last_data_physical_used</b> <i>optional</i>	Last physical used space for data during the period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>last_data_reduction</b> <i>optional</i>	Last data reduction space during the period.	number (float)
<b>last_efficiency_ratio</b> <i>optional</i>	Last efficiency ratio during the period.	number (float)
<b>last_logical_provisioned</b> <i>optional</i>	Last logical total space during the period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>last_logical_used</b> <i>optional</i>	Last logical used space during the period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>last_physical_total</b> <i>optional</i>	Last physical total space during the period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>last_physical_used</b> <i>optional</i>	Last physical used space during the period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>last_shared_logical_used</b> <i>optional</i>	Last shared logical used during the period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>last_snapshot_savings</b> <i>optional</i>	Last snapshot savings space during the period.	number (float)

Name	Description	Schema
<b>last_thin_savings</b> <i>optional</i>	Last thin savings ratio during the period.	number (float)
<b>max_data_physical_used</b> <i>optional</i>	Maximum physical used space for data during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_data_reduction</b> <i>optional</i>	Maximum data reduction space during the period.	number (float)
<b>max_efficiency_ratio</b> <i>optional</i>	Maximum efficiency ratio during the period.	number (float)
<b>max_logical_provisioned</b> <i>optional</i>	Maximum logical total space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_logical_used</b> <i>optional</i>	Maximum logical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_physical_total</b> <i>optional</i>	Maximum physical total space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_physical_used</b> <i>optional</i>	Maximum physical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_shared_logical_used</b> <i>optional</i>	Max shared logical used during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_snapshot_savings</b> <i>optional</i>	Maximum snapshot savings space during the period.	number (float)
<b>max_thin_savings</b> <i>optional</i>	Maximum thin savings ratio during the period.	number (float)

Name	Description	Schema
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

## space\_metrics\_by\_cluster

Space metrics for the cluster collected at five minute interval.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>cluster_id</b> <i>optional</i>	Identifier of the cluster.	string
<b>data_physical_used</b> <i>optional</i>	This metric represents total amount of physical space user data occupies after deduplication and compression. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>data_reduction</b> <i>optional</i>	Ratio of the logical used space to data physical used space which is after deduplication and compression.	number (float)
<b>efficiency_ratio</b> <i>optional</i>	The overall efficiency is computed as a ratio of the total space provisioned to physical used space. For example, ten 2 GB volumes were provisioned and 1 GB of data is written to each of them. Each of the volumes has one snapshot as well, for another ten 2 GB volumes. All volumes are thinly provisioned with deduplication and compression applied, there is 4 GB of physical space used. Overall efficiency would be (20 * 2 GB) / 4 GB or 10:1. The efficiency_ratio value will be 10 in this example.	number (float)
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string

Name	Description	Schema
<b>logical_provisioned</b> <i>optional</i>	Total configured size of all storage objects within the cluster. This metric includes all primaries, snaps and clones. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>logical_used</b> <i>optional</i>	Amount of data in bytes written to all storage objects within the cluster, without any deduplication and/or compression. This metric includes all primaries, snaps and clones. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>physical_total</b> <i>optional</i>	The total combined space on the physical drives of the cluster available for data. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>physical_used</b> <i>optional</i>	The total physical space consumed in the cluster, accounting for all efficiency mechanisms, as well as all data protection. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>shared_logical_used</b> <i>optional</i>	Cluster shared logical used is sum of appliances' shared logical used in the cluster. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>snapshot_savings</b> <i>optional</i>	Ratio of the amount of space that would have been used by snapshots if space efficiency was not applied to logical space used solely by snapshots. For example, an object is provisioned as 1 GB and it has two snapshots. Each snapshot has 200 MB of data. Snapshot savings will be (1 GB + 1 GB) / (0.2 GB + 0.2 GB) or 5:1. The snapshot_savings value will be 5 in this case.	number (float)

Name	Description	Schema
<b>thin_savings</b> <i>optional</i>	Ratio of all the vVol provisioned to data they contain. This is the ratio of logical_provisioned to logical_used. For example, a cluster has two 2 GB objects and have written 500 MB bytes of data to them. The thin savings would be (2 * 2 GB) / (2 * 0.5 GB) or 4:1, so the thin_savings value would be 4.0.	number (float)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

## space\_metrics\_by\_cluster\_rollup

Summary of cluster level space metric data for a specific period of time, beginning with timestamp, including the maximum and final values for that period. Current support is for a time period of one hour and one day.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>cluster_id</b> <i>optional</i>	Identifier of the cluster.	string
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>last_data_physical_used</b> <i>optional</i>	Last physical used space for data during the period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>last_data_reduction</b> <i>optional</i>	Last data reduction space during the period.	number (float)
<b>last_efficiency_ratio</b> <i>optional</i>	Last efficiency ratio during the period.	number (float)

Name	Description	Schema
<b>last_logical_provisioned</b> <i>optional</i>	Last logical total space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>last_logical_used</b> <i>optional</i>	Last logical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>last_physical_total</b> <i>optional</i>	Last physical total space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>last_physical_used</b> <i>optional</i>	Last physical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>last_shared_logical_used</b> <i>optional</i>	Last shared logical used during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>last_snapshot_savings</b> <i>optional</i>	Last snapshot savings space during the period.	number (float)
<b>last_thin_savings</b> <i>optional</i>	Last thin savings ratio during the period.	number (float)
<b>max_data_physical_used</b> <i>optional</i>	Maximum physical used space for data during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_data_reduction</b> <i>optional</i>	Maximum data reduction space during the period.	number (float)
<b>max_efficiency_ratio</b> <i>optional</i>	Maximum efficiency ratio during the period.	number (float)
<b>max_logical_provisioned</b> <i>optional</i>	Maximum logical total space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)

Name	Description	Schema
<b>max_logical_used</b> <i>optional</i>	Maximum logical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_physical_total</b> <i>optional</i>	Maximum physical total space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_physical_used</b> <i>optional</i>	Maximum physical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_shared_logical_used</b> <i>optional</i>	Maximum shared logical used during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_snapshot_savings</b> <i>optional</i>	Maximum snapshot savings space during the period.	number (float)
<b>max_thin_savings</b> <i>optional</i>	Maximum thin savings ratio during the period.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

## space\_metrics\_by\_storage\_container

Space metrics of storage container aggregated from all appliances collected at five minute interval.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>



Name	Description	Schema
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>logical_provisioned</b> <i>optional</i>	Total configured size in bytes of the primary and clone virtual volumes within the storage container. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>logical_used</b> <i>optional</i>	Amount of data in bytes written to primary and clone virtual volumes within the storage container. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>snapshot_savings</b> <i>optional</i>	Ratio of the amount of space that would have been used by snapshots if space efficiency was not applied to logical space used solely by snapshots. For example, a volume is provisioned as 1 GB and it has two snapshots. Each snapshot has 200 MB of data. Snapshot savings will be (1 GB + 1 GB) / (0.2 GB + 0.2 GB) or 5:1. The snapshot_savings value will be 5 in this case.	number (float)
<b>storage_container_id</b> <i>optional</i>	Internal ID of the storage container.	string
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

## space\_metrics\_by\_storage\_container\_rollup

Summary of storage container level space metric data for a specific period of time beginning with timestamp, including the maximum and final values for that period. Current support is for a time period of one hour and one day.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_110n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>last_logical_provisioned</b> <i>optional</i>	Last logical provisioned space during the period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>last_logical_used</b> <i>optional</i>	Last logical used space during the period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>last_snapshot_savings</b> <i>optional</i>	Last snapshot savings during the period.	number (float)
<b>max_logical_provisioned</b> <i>optional</i>	Maximum logical provisioned space during the period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>max_logical_used</b> <i>optional</i>	Maximum logical used space during the period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>max_snapshot_savings</b> <i>optional</i>	Maximum snapshot savings during the period.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>storage_container_id</b> <i>optional</i>	Internal ID of the storage container.	string
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

# space\_metrics\_by\_vg

Space metrics for a volume group collected at a five minute interval.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>logical_provisioned</b> <i>optional</i>	Total configured size in bytes of all member volumes in a volume group. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>logical_used</b> <i>optional</i>	Total amount of data in bytes written to all member volumes in a volume group. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>snap_clone_logical_used</b> <i>optional</i>	Total amount of data in bytes host has written to all volumes in the volume group without any deduplication, compression or sharing. This metric includes used snaps and clones in the volume group. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>snapshot_savings</b> <i>optional</i>	Ratio of the amount of space that would have been used by snapshots in the volume group if space efficiency was not applied to logical space used solely by snapshots. For example, two volumes are provisioned as 1 GB and each has two snapshots. Each snapshot has 200 MB of data. Snapshot savings will be $(1\text{ GB} * 2 + 1\text{ GB} * 2) / (0.2\text{ GB} * 2 + 0.2\text{ GB} * 2)$ or 5:1. The snapshot_savings value will be 5 in this case.	number (float)

Name	Description	Schema
<b>thin_savings</b> <i>optional</i>	Ratio of all the volumes provisioned to data being written to them. For example, a volume group has two 2 GB volumes and have written 500 MB of data to them. The thin savings would be (2 * 2 GB) / (2 * 0.5 GB) or 4:1, so the thin_savings value would be 4.0.	number (float)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>vg_id</b> <i>optional</i>	Unique identifier representing a volume group.	string

## space\_metrics\_by\_vg\_rollup

Summary of volume group level space metric data for one hour or one day period beginning with timestamp, including the maximum and final values for that period.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>last_logical_provisioned</b> <i>optional</i>	Last logical provisioned space during the period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>last_logical_used</b> <i>optional</i>	Last logical used space during the period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>last_snapshot_clone_logical_used</b> <i>optional</i>	Last snap and clone logical used space during the period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>last_snapshot_savings</b> <i>optional</i>	Last snapshot savings space during the period.	number (float)

Name	Description	Schema
<b>last_thin_savings</b> <i>optional</i>	Last thin savings ratio during the period.	number (float)
<b>max_logical_provisioned</b> <i>optional</i>	Max logical provisioned space during the period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>max_logical_used</b> <i>optional</i>	Maximum logical used space during the period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>max_snap_clone_logical_used</b> <i>optional</i>	Max snap and clone logical used space during the period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>max_snapshot_savings</b> <i>optional</i>	Max snapshot savings space during the period.	number (float)
<b>max_thin_savings</b> <i>optional</i>	Max thin savings ratio during the period.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>vg_id</b> <i>optional</i>	Unique identifier representing a specific volume group.	string

## space\_metrics\_by\_vm

Space metrics for the VM collected at five minute interval.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>logical_provisioned</b> <i>optional</i>	Total configured size in bytes of all virtual volumes used by virtual machine. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>logical_used</b> <i>optional</i>	Total amount of data in bytes written to all virtual volumes used by virtual machine. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>snap_clone_logical_used</b> <i>optional</i>	Total Amount of data in bytes host has written to all volumes used by virtual machine without any deduplication, compression or sharing. This metric includes snaps and clones in the volume family used by virtual machine. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>snapshot_savings</b> <i>optional</i>	Ratio of the amount of space that would have been used by snapshots if space efficiency was not applied to logical space used solely by snapshots of vVols used by virtual machine. For example, a vVol is provisioned as 1 GB and it has two snapshots. Each snapshot has 200 MB of data. Snapshot savings will be (1 GB + 1 GB) / (0.2 GB + 0.2 GB) or 5:1. The snapshot_savings value will be 5 in this case.	number (float)
<b>thin_savings</b> <i>optional</i>	Ratio of all the vVol provisioned to data they contain. This is the ratio of logical_provisioned to logical_used. For example, a VM has two 2 GB vVol's and have written 500 MB of data to them. The thin savings would be (2 * 2GB) / (2 * 0.5 GB) or 4:1, so the thin_savings value would be 4.0.	number (float)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

Name	Description	Schema
<b>unique_physical_used</b> <i>optional</i>	Amount of physical space virtual machine used after compression and deduplication. This is the space to be freed up if a virtual machine is removed. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>vm_id</b> <i>optional</i>	Unique identifier representing a specific virtual machine.	string

## space\_metrics\_by\_vm\_rollup

Summary of VM level space metric data for one hour or one day period beginning with timestamp, including the maximum and final values for that period.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>last_logical_provisioned</b> <i>optional</i>	Last logical provisioned space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>last_logical_used</b> <i>optional</i>	Last logical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>last_snap_clone_logical_used</b> <i>optional</i>	Last snap and clone logical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>last_snapshot_savings</b> <i>optional</i>	Last snapshot savings space during the period.	number (float)
<b>last_thin_savings</b> <i>optional</i>	Last thin savings ratio during the period.	number (float)

Name	Description	Schema
<b>last_unique_physical_used</b> <i>optional</i>	Last unique physical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_logical_provisioned</b> <i>optional</i>	Max logical provisioned space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_logical_used</b> <i>optional</i>	Max logical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_snap_clone_logical_used</b> <i>optional</i>	Max snap and clone logical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_snapshot_savings</b> <i>optional</i>	Max snapshot savings space during the period.	number (float)
<b>max_thin_savings</b> <i>optional</i>	Max thin savings ratio during the period.	number (float)
<b>max_unique_physical_used</b> <i>optional</i>	Max unique physical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value : 0</b> <b>Maximum value : 2147483647</b>	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>vm_id</b> <i>optional</i>	Unique identifier representing a specific virtual machine.	string

## space\_metrics\_by\_volume

Space metrics for the volume collected at five minute interval.

*Polymorphism* : Inheritance



*Discriminator* : entity

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>logical_provisioned</b> <i>optional</i>	Configured size in bytes of a volume which amount of data can be written to. This metric includes primaries, snaps and clones. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>logical_used</b> <i>optional</i>	Amount of data in bytes host has written to a volume without any deduplication, compression or sharing. This metric includes primaries, snaps and clones. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>thin_savings</b> <i>optional</i>	Ratio of all the volumes provisioned to data being written to them. For example, an appliance has two 2 GB volumes and have written 500 MB of data to them. The thin savings would be (2 GB * 2) / (0.5 GB * 2) or 4:1, so the thin_savings value would be 4.0.	number (float)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>volume_id</b> <i>optional</i>	ID of the volume.	string

## space\_metrics\_by\_volume\_family

Space metrics for the volume family collected at five minute interval.

*Polymorphism* : Inheritance

Discriminator : entity

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>family_id</b> <i>optional</i>	ID of the family.	string
<b>logical_provisioned</b> <i>optional</i>	Configured size in bytes of a volume which amount of data can be written to. This metric includes primaries, snaps and clones. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>logical_used</b> <i>optional</i>	Amount of data in bytes host has written to a volume family without any deduplication, compression or sharing. This metric includes primaries, snaps and clones. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>shared_logical_used</b> <i>optional</i>	Amount of space the volume family needs to hold the data written by host and shared by snaps and fast-clones in the family. This does not include deduplication or compression. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)
<b>snap_clone_logical_used</b> <i>optional</i>	Total Amount of data in bytes host has written to all volumes in the volume family without any deduplication, compression or sharing. This metric includes snaps and clones in the volume family. <b>Minimum value :</b> 0 <b>Maximum value :</b> 9223372036854775807	integer (int64)

Name	Description	Schema
<b>snapshot_savings</b> <i>optional</i>	Ratio of the amount of space that would have been used by snapshots if space efficiency was not applied to logical space used solely by snapshots. For example, a volume is provisioned as 1 GB bytes and it has two snapshots. Each snapshot has 200 MB of data. Snapshot savings will be (1 GB + 1 GB) / (0.2 GB + 0.2 GB) or 5:1. The snapshot_savings value will be 5 in this case.	number (float)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>unique_physical_used</b> <i>optional</i>	Amount of physical space volume family used after compression and deduplication. This is the space to be freed up if a volume family is removed from the appliance. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)

## space\_metrics\_by\_volume\_family\_rollup

Space metrics for the volume family for one hour or one day period beginning with timestamp, including the maximum and final values for that period.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>family_id</b> <i>optional</i>	ID of the family.	string
<b>last_logical_provisioned</b> <i>optional</i>	Last logical provisioned space during the period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)

Name	Description	Schema
<b>last_logical_used</b> <i>optional</i>	Last logical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>last_shared_logical_used</b> <i>optional</i>	Last shared logical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>last_snap_clone_logical_used</b> <i>optional</i>	Last snap and clone logical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>last_snapshot_savings</b> <i>optional</i>	Last snapshot savings space during the period.	number (float)
<b>last_unique_physical_used</b> <i>optional</i>	Last unique physical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_logical_provisioned</b> <i>optional</i>	Max logical provisioned space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_logical_used</b> <i>optional</i>	Max logical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_shared_logical_used</b> <i>optional</i>	Max shared logical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_snap_clone_logical_used</b> <i>optional</i>	Max snap and clone logical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>max_snapshot_savings</b> <i>optional</i>	Max snapshot savings space during the period.	number (float)
<b>max_unique_physical_used</b> <i>optional</i>	Max unique physical used space during the period. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)

Name	Description	Schema
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

## space\_metrics\_by\_volume\_rollup

Summary of volume level space metric data for one hour or one day period beginning with timestamp, including the maximum and final values for that period.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Reference to the associated appliance on which these metrics were recorded.	string
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>last_logical_provisioned</b> <i>optional</i>	Last logical provisioned space during the period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>last_logical_used</b> <i>optional</i>	Last logical used space during the period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>last_thin_savings</b> <i>optional</i>	Last thin savings ratio during the period.	number (float)
<b>max_logical_provisioned</b> <i>optional</i>	Max logical provisioned space during the period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)

Name	Description	Schema
<b>max_logical_used</b> <i>optional</i>	Max logical used space during the period. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>max_thin_savings</b> <i>optional</i>	Max thin savings ratio during the period.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics are repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)
<b>volume_id</b> <i>optional</i>	ID of the volume.	string

## storage\_container\_create

Parameters for storage container create.

Name	Description	Schema
<b>name</b> <i>required</i>	Name for the storage container that is unique across all storage containers in the cluster. The name must be between 1 and 64 UTF-8 characters (inclusive), and not more than 127 bytes. <b>Length</b> : 1 - 64	string
<b>quota</b> <i>optional</i>	The number of bytes that can be provisioned against this storage container. This must be a value greater than 10Gb and the default is 0 which means no limit. <b>Default</b> : 0 <b>Minimum value</b> : 0 <b>Maximum value</b> : 4611686018427387904	integer (int64)

## storage\_container\_delete

Parameters for storage container delete.

Name	Description	Schema
<b>force</b> <i>optional</i>	Normally, deletion of a storage container that is mounted or still contains virtual volumes will be rejected. This option overrides that error and allows the delete to continue. Use with great caution.	boolean

## storage\_container\_instance

A storage container is a logical grouping of related storage objects. For example, a storage container maps to a vVol datastore in vSphere where the storage for virtual machines can be provisioned. This resource type has queriable association from virtual\_volume

Name	Description	Schema
<b>id</b> <i>optional</i>	The unique id of the storage container.	string
<b>name</b> <i>optional</i>	Name for the storage container. This should be unique across all storage containers in the cluster. Name can be from 1 to 64 UTF-8 characters, and not more than 127 bytes. This property supports case-insensitive filtering <b>Length : 1 - 64</b>	string
<b>quota</b> <i>optional</i>	The total number of bytes that can be provisioned/reserved against this storage container. A value of 0 means there is no limit. It is possible to set the quota to a value that overprovisions the amount of space available in the system. <b>Minimum value : 0</b> <b>Maximum value : 9223372036854775807</b>	integer (int64)
<b>virtual_volumes</b> <i>optional</i>	This is the inverse of the resource type virtual_volume association.	< <a href="#">virtual_volume_instance</a> > array

## storage\_container\_modify

Parameters for storage container modify.

Name	Description	Schema
<b>name</b> <i>optional</i>	New name for the storage container that is unique across all storage containers in the cluster. The name must be between 1 and 64 UTF-8 characters (inclusive), and not more than 127 bytes. <b>Length : 1 - 64</b>	string

Name	Description	Schema
<b>quota</b> <i>optional</i>	The number of bytes that can be provisioned against this storage container. It cannot be set lower than the current used space or 10Gb. A value of 0 means unlimited. <b>Minimum value : 0</b> <b>Maximum value : 4611686018427387904</b>	integer (int64)

## storage\_container\_mount

Properties for mounting storage container.

Name	Description	Schema
<b>datastore_name</b> <i>optional</i>	This will be the vVol datastore name in vCenter when it is mounted.	string

## update\_initiator\_in\_host

Name	Description	Schema
<b>chap_mutual_password</b> <i>optional</i>	Password for CHAP authentication. This value must be 12 to 64 printable UTF-8 characters. CHAP password is required when the cluster CHAP mode is mutual authentication. <b>Length : 12 - 64</b>	string (password)
<b>chap_mutual_username</b> <i>optional</i>	Username for CHAP authentication. This value must be 1 to 64 printable UTF-8 characters. CHAP username is required when the cluster CHAP mode is mutual authentication. <b>Length : 1 - 64</b>	string
<b>chap_single_password</b> <i>optional</i>	Password for CHAP authentication. This value must be 12 to 64 printable UTF-8 characters. CHAP password is required when the cluster CHAP mode is mutual authentication. <b>Length : 12 - 64</b>	string (password)
<b>chap_single_username</b> <i>optional</i>	Username for CHAP authentication. This value must be 1 to 64 printable UTF-8 characters. CHAP username is required when the cluster CHAP mode is mutual authentication. <b>Length : 1 - 64</b>	string



Name	Description	Schema
<b>port_name</b> <i>optional</i>	Initiator name	string

## vcenter\_create

Name	Description	Schema
<b>address</b> <i>optional</i>	IP address of vCenter host, in IPv4, IPv6, or hostname format.	string (ip-address)
<b>password</b> <i>optional</i>	Password to login to vCenter.	string (password)
<b>username</b> <i>optional</i>	User name to login to vCenter.	string

## vcenter\_instance

Properties of a vCenter.

Name	Description	Schema
<b>address</b> <i>optional</i>	IP address of vCenter host, in IPv4, IPv6, or hostname format.	string (ip-address)
<b>id</b> <i>optional</i>	Unique identifier of the vCenter instance.	string
<b>instance_uuid</b> <i>optional</i>	UUID instance of the vCenter.	string
<b>username</b> <i>optional</i>	User name to login to vCenter.	string

## vcenter\_modify

Name	Description	Schema
<b>address</b> <i>optional</i>	IP address of vCenter host, in IPv4, IPv6, or hostname format. Must be a new address of the same vCenter.	string (ip-address)

Name	Description	Schema
<b>password</b> <i>optional</i>	Password to login to vCenter.	string (password)
<b>username</b> <i>optional</i>	User name to login to vCenter. Password needs to be provided to modify the user name.	string

## veth\_port\_instance

This resource type has queryable associations from ip\_port, appliance, node

Name	Description	Schema
<b>appliance</b> <i>optional</i>	This is the embeddable reference form of appliance_id attribute.	<a href="#">appliance_instance</a>
<b>appliance_id</b> <i>optional</i>	Unique identifier of the appliance.	string
<b>current_mtu</b> <i>optional</i>	Maximum Transmission Unit (MTU) packet size that the virtual Ethernet port can transmit. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>current_speed</b> <i>optional</i>	Virtual Ethernet port transmission speed, in bits/sec (bps). <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>id</b> <i>optional</i>	Unique identifier of the virtual Ethernet port instance.	string
<b>ip_ports</b> <i>optional</i>	This is the inverse of the resource type ip_port association.	< <a href="#">ip_port_instance</a> > array
<b>is_link_up</b> <i>optional</i>	Indicates whether the virtual Ethernet port's link is up. Values are:  <b>true</b> Link is up.  <b>false</b> Link is down.	boolean
<b>mac_address</b> <i>optional</i>	Virtual Ethernet port MAC address.	string

Name	Description	Schema
<b>name</b> <i>optional</i>	Virtual Ethernet port name. This property supports case-insensitive filtering	string
<b>node</b> <i>optional</i>	This is the embeddable reference form of node_id attribute.	<a href="#">node_instance</a>
<b>node_id</b> <i>optional</i>	Unique identifier of the cluster.	string
<b>vswitch_name</b> <i>optional</i>	Name of the virtual switch that holds the virtual Ethernet port.	string
<b>vswitch_port_group_name</b> <i>optional</i>	Name of virtual switch port group to which the virtual Ethernet port is assigned.	string
<b>vswitch_port_id</b> <i>optional</i>	Unique identifier of the virtual switch port associated with the virtual Ethernet port. <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>vswitch_port_name</b> <i>optional</i>	Name of the virtual switch port associated with the virtual Ethernet port. This property supports case-insensitive filtering	string

## virtual\_machine\_instance

Properties of a virtual machine. This resource type has queriable associations from policy, virtual\_machine

Name	Description	Schema
<b>children</b> <i>optional</i>	This is the inverse of the resource type virtual_machine association.	< <a href="#">virtual_machine_instance</a> > array
<b>cpu_count</b> <i>optional</i>	Number of virtual CPUs in the VM. Not applicable to VM snapshots. <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>description</b> <i>optional</i>	Description of the VM in vCenter.	string

Name	Description	Schema
<b>guest_os</b> <i>optional</i>	Guest operating system of the VM. Not applicable to VM snapshots.	string
<b>id</b> <i>optional</i>	Unique identifier of the VM instance. This value is generated by the appliance.	string
<b>instance_uuid</b> <i>optional</i>	UUID instance of the VM in vCenter. This value is stored in the VM and migrates with the VM to other vCenter instances. Not applicable to VM snapshots.	string
<b>is_consistent</b> <i>optional</i>	Indicates whether the VM snapshot is crash-consistent.	boolean
<b>is_consistent_snaps_supported</b> <i>optional</i>	Indicates whether the VM supports creating crash-consistent snapshots. Not applicable to snapshot VMs.	boolean
<b>memory_mb</b> <i>optional</i>	Memory size of the VM, in megabytes. Not applicable to VM snapshots. <b>Minimum value :</b> 0 <b>Maximum value :</b> 2147483647	integer (int32)
<b>name</b> <i>optional</i>	User-assigned name of the VM in vCenter. This property supports case-insensitive filtering	string
<b>parent</b> <i>optional</i>	This is the embeddable reference form of parent_id attribute.	<a href="#">virtual_machine_instance</a>
<b>protection_data</b> <i>optional</i>		<a href="#">vm_protection_data_instance</a>
<b>protection_policy</b> <i>optional</i>	This is the embeddable reference form of protection_policy_id attribute.	<a href="#">policy_instance</a>
<b>protection_policy_id</b> <i>optional</i>	Unique identifier of the protection policy assigned to the VM. Not applicable to template and snapshot VMs.	string
<b>status</b> <i>optional</i>		<a href="#">VirtualMachineStatusEnum</a>

Name	Description	Schema
<b>status_l10n</b> <i>optional</i>	Localized message string corresponding to status	string
<b>type</b> <i>optional</i>		<a href="#">VirtualMachineType Enum</a>
<b>type_l10n</b> <i>optional</i>	Localized message string corresponding to type	string
<b>vcenter_instance_uuid</b> <i>optional</i>	UUID instance of the vCenter that hosts the VM.	string

## virtual\_machine\_modify

Name	Description	Schema
<b>protection_policy_id</b> <i>optional</i>	Unique identifier of the protection policy.	string

## virtual\_machine\_snapshot

Name	Description	Schema
<b>description</b> <i>optional</i>	Description of the snapshot. This value must contain 2000 or fewer printable Unicode characters. <b>Maximal length : 2000</b>	string
<b>name</b> <i>optional</i>	Name of the snapshot. This value must contain 80 or fewer printable Unicode characters. <b>Maximal length : 80</b>	string

## virtual\_machine\_snapshot\_response

The response to a virtual\_machine snapshot request.

Name	Description	Schema
<b>id</b> <i>optional</i>	Unique id of the new snapshot.	string

## virtual\_volume\_delete

Parameters for virtual volume delete.

Name	Description	Schema
<b>force</b> <i>optional</i>	Normally, attempting to delete a bound virtual volume is not permitted. This option overrides that error and allows the delete to continue.	boolean

## virtual\_volume\_instance

A virtual volume. This resource type has queryable associations from appliance, storage\_container, migration\_session, virtual\_volume, host\_virtual\_volume\_mapping

Name	Description	Schema
<b>appliance</b> <i>optional</i>	This is the embeddable reference form of appliance_id attribute.	<a href="#">appliance_instance</a>
<b>appliance_id</b> <i>optional</i>	The appliance where the virtual volume resides.	string
<b>child_virtual_volumes</b> <i>optional</i>	This is the inverse of the resource type virtual_volume association.	< <a href="#">virtual_volume_instance</a> > array
<b>creation_time_stamp</b> <i>optional</i>	Timestamp of the moment virtual volume was created at.	string (date-time)
<b>creator_type</b> <i>optional</i>		<a href="#">StorageCreatorType Enum</a>
<b>creator_type_10n</b> <i>optional</i>	Localized message string corresponding to creator_type	string
<b>family_id</b> <i>optional</i>	Family id of the virtual volume. This is the id of the primary object at the root of the family tree. For a primary virtual volume this will be the same as the id of the object. For snap-sets and clone vVols it will be set to the source objects family ID.	string

Name	Description	Schema
<b>host_virtual_volume_mappings</b> <i>optional</i>	This is the inverse of the resource type <code>host_virtual_volume_mapping</code> association.	< <a href="#">host_virtual_volume_mapping_instance</a> > array
<b>id</b> <i>optional</i>	The unique identifier of the virtual volume.	string
<b>io_priority</b> <i>optional</i>		<a href="#">IoPriorityEnum</a>
<b>io_priority_l10n</b> <i>optional</i>	Localized message string corresponding to <code>io_priority</code>	string
<b>is_readonly</b> <i>optional</i>	Indicates whether the virtual volume is read-only.	boolean
<b>location_history</b> <i>optional</i>	Filtering on the fields of this embedded resource is not supported.	< <a href="#">location_history_instance</a> > array
<b>migration_session</b> <i>optional</i>	This is the embeddable reference form of <code>migration_session_id</code> attribute.	<a href="#">migration_session_instance</a>
<b>migration_session_id</b> <i>optional</i>	If the virtual volume is part of a migration activity, the session ID for that migration.	string
<b>name</b> <i>optional</i>	The name of the virtual volume, based on metadata provided by vSphere. This property supports case-insensitive filtering	string
<b>parent</b> <i>optional</i>	This is the embeddable reference form of <code>parent_id</code> attribute.	<a href="#">virtual_volume_instance</a>
<b>parent_id</b> <i>optional</i>	For snapshots and clones, the ID of the parent virtual volume. The <code>parent_id</code> is set when an virtual volume is created and will only change if its parent virtual volume is deleted.	string
<b>profile_id</b> <i>optional</i>	The ID of the storage profile governing this virtual volume.	string

Name	Description	Schema
<b>size</b> <i>optional</i>	The size of the virtual volume in bytes. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>source</b> <i>optional</i>	This is the embeddable reference form of source_id attribute.	<a href="#">virtual_volume_instance</a>
<b>source_id</b> <i>optional</i>	Id of the virtual volume from which the content has been sourced. Data is sourced from another virtual volume when a snapshot or clone is created, or when a refresh or restore occurs. Only applies to snap and clones.	string
<b>source_timestamp</b> <i>optional</i>	The source data time-stamp of the virtual volume.	string (date-time)
<b>storage_container</b> <i>optional</i>	This is the embeddable reference form of storage_container_id attribute.	<a href="#">storage_container_instance</a>
<b>storage_container_id</b> <i>optional</i>	The storage container where the virtual volume resides.	string
<b>target_virtual_volumes</b> <i>optional</i>	This is the inverse of the resource type virtual_volume association.	< <a href="#">virtual_volume_instance</a> > array
<b>type</b> <i>optional</i>		<a href="#">VirtualVolumeTypeEnum</a>
<b>type_l10n</b> <i>optional</i>	Localized message string corresponding to type	string
<b>usage_type</b> <i>optional</i>		<a href="#">VirtualVolumeUsageTypeEnum</a>
<b>usage_type_l10n</b> <i>optional</i>	Localized message string corresponding to usage_type	string
<b>virtual_machine_uuid</b> <i>optional</i>	UUID of the virtual machine that owns this virtual volume.	string



## vm\_protection\_data\_instance

Protection data associated with the VM snapshot. Filtering on the fields of this embedded resource is not supported.

Name	Description	Schema
<b>created_by_rule_id</b> <i>optional</i>	Unique identifier of the protection rule that created the VM snapshot.	string
<b>created_by_rule_name</b> <i>optional</i>	Name of the rule that created the VM snapshot. This value is not updated if the name of the rule changes after snapshot creation.	string
<b>creator_type</b> <i>optional</i>		<a href="#">StorageCreatorType Enum</a>
<b>creator_type_10n</b> <i>optional</i>	Localized message string corresponding to creator_type	string
<b>expiration_timestamp</b> <i>optional</i>	Date when the VM snapshot can be automatically purged.	string (date-time)
<b>parent_id</b> <i>optional</i>	VM from which the snapshot was created.	string
<b>source_id</b> <i>optional</i>	For VM snapshots, this value is the same as parent_id.	string
<b>source_timestamp</b> <i>optional</i>	Time when the snapshot was created.	string (date-time)

## volume\_attach

Name	Description	Schema
<b>host_group_id</b> <i>optional</i>	Unique identifier of the host group to be attached to the volume. Only one of host_id or host_group_id can be supplied.	string

Name	Description	Schema
<b>host_id</b> <i>optional</i>	Unique identifier of the host to be attached to the volume. Only one of host_id or host_group_id can be supplied.	string
<b>logical_unit_number</b> <i>optional</i>	Logical unit number for the host volume access. <b>Minimum value : 0</b> <b>Maximum value : 16383</b>	integer (int32)

## volume\_clone

Name	Description	Schema
<b>description</b> <i>optional</i>	Description of the clone. This value must contain 128 or fewer printable Unicode characters. <b>Maximal length : 128</b>	string
<b>host_group_id</b> <i>optional</i>	Unique identifier of the host group to be attached to the clone. Only one of host_id or host_group_id can be supplied.	string
<b>host_id</b> <i>optional</i>	Unique identifier of the host to be attached to the clone. Only one of host_id or host_group_id can be supplied.	string
<b>logical_unit_number</b> <i>optional</i>	Optional logical unit number when creating a mapped volume. If no host_id or host_group_id is specified, this property is ignored. <b>Minimum value : 0</b> <b>Maximum value : 16383</b>	integer (int32)
<b>name</b> <i>optional</i>	Name of the clone. This value must contain 128 or fewer printable Unicode characters. <b>Maximal length : 128</b>	string
<b>performance_policy_id</b> <i>optional</i>	Unique identifier of the performance policy.	string
<b>protection_policy_id</b> <i>optional</i>	Unique identifier of the protection policy.	string

## volume\_clone\_response

Unique identifier of the new clone volume.

Name	Schema
<b>id</b> <i>optional</i>	string

## volume\_create

Name	Description	Schema
<b>appliance_id</b> <i>optional</i>	Identifier of the appliance on which the volume is provisioned.	string
<b>description</b> <i>optional</i>	Description of the volume. This value must contain 128 or fewer printable Unicode characters. <b>Maximal length</b> : 128	string
<b>host_group_id</b> <i>optional</i>	Unique identifier of the host group to be attached to the volume. If not specified, an unmapped volume is created. Only one of host_id or host_group_id can be supplied.	string
<b>host_id</b> <i>optional</i>	Unique identifier of the host to be attached to the volume. If not specified, an unmapped volume is created. Only one of host_id or host_group_id can be supplied.	string
<b>logical_unit_number</b> <i>optional</i>	Optional logical unit number when creating a attached volume. If no host_id or host_group_id is specified, this property is ignored. <b>Minimum value</b> : 0 <b>Maximum value</b> : 16383	integer (int32)
<b>min_size</b> <i>optional</i>	Optional minimum size for the volume, in bytes. <b>Minimum value</b> : 0 <b>Maximum value</b> : 9223372036854775807	integer (int64)
<b>name</b> <i>required</i>	Unique name for the volume to be created. This value must contain 128 or fewer printable Unicode characters. <b>Maximal length</b> : 128	string
<b>performance_policy_id</b> <i>optional</i>	Unique identifier of the performance policy assigned to the volume.	string
<b>protection_policy_id</b> <i>optional</i>	Unique identifier of the protection policy assigned to the volume.	string

Name	Description	Schema
<b>sector_size</b> <i>optional</i>	Optional sector size, in bytes. Only 512-byte and 4096-byte sectors are supported. <b>Minimum value</b> : 512 <b>Maximum value</b> : 4096	integer (int32)
<b>size</b> <i>required</i>	Size of the volume to be created, in bytes. Minimum volume size is 1MB. Maximum volume size is 256TB. Size must be a multiple of 8192. <b>Minimum value</b> : 1048576 <b>Maximum value</b> : 281474976710656	integer (int64)
<b>volume_group_id</b> <i>optional</i>	Volume group to add the volume to. If not specified, the volume is not added to a volume group.	string

## volume\_detach

Name	Description	Schema
<b>host_group_id</b> <i>optional</i>	Unique identifier of the host group to be detached from this volume. Only one of host_id or host_group_id can be supplied.	string
<b>host_id</b> <i>optional</i>	Unique identifier of the host to be detached from this volume. Only one of host_id or host_group_id can be supplied.	string

## volume\_group\_add\_members

Request to add members to a volume group.

Name	Description	Schema
<b>volume_ids</b> <i>required</i>	A list of primary or clone volumes to be added to the volume group. Snapshots cannot be added to a volume group. All the volumes should be on the same appliance as the current members of the volume group. This list cannot be empty.	< string > array

## volume\_group\_clone

Clone volume group request.

Name	Description	Schema
<b>description</b> <i>optional</i>	Description for the clone volume group. If description is not specified, the description for the snapshot set will not be set.	string
<b>is_replication_destination</b> <i>optional</i>	A boolean flag to indicate whether the clone volume group is a destination of a replication session. This parameter defaults to false, if not specified. <b>Default : false</b>	boolean
<b>name</b> <i>required</i>	Unique name for the clone volume group.	string
<b>protection_policy_id</b> <i>optional</i>	Unique identifier of the protection policy you want to assign to the clone volume group.	string

## volume\_group\_clone\_response

Response for volume group clone action

Name	Description	Schema
<b>id</b> <i>optional</i>	Unique identifier of the new instance created.	string

## volume\_group\_create

Create volume group request.

Name	Description	Schema
<b>description</b> <i>optional</i>	Description for the volume group. The description should not be more than 256 characters long and should not have any unprintable characters.  If description is not specified, the description for the volume group will not be set. <b>Maximal length : 256</b>	string
<b>is_write_order_consistent</b> <i>optional</i>	A boolean flag to indicate whether snapshot sets of the volume group will be write-order consistent.  This parameter defaults to true, if not specified. <b>Default : true</b>	boolean

Name	Description	Schema
<b>name</b> <i>required</i>	Unique name for the volume group. The name should contain no special HTTP characters and no unprintable characters. Although the case of the name provided is reserved, uniqueness check is case-insensitive, so the same name in two different cases is not considered unique. <b>Maximal length : 128</b>	string
<b>protection_policy_id</b> <i>optional</i>	Unique identifier of an optional protection policy to assign to the volume group.	string
<b>volume_ids</b> <i>optional</i>	A list of identifiers of existing volumes that should be added to the volume group.  All the volumes must be on the same Cyclone appliance and should not be part of another volume group.  If a list of volumes is not specified or if the specified list is empty, an empty volume group of type Volume will be created.	< string > array

## volume\_group\_delete

Delete volume group request.

Name	Description	Schema
<b>delete_members</b> <i>optional</i>	By default, the members of a volume group being deleted are only removed. Set this optional parameter to true to override this behavior and also delete the members after they are removed from the volume group. This parameter defaults to false, if not specified. <b>Default : false</b>	boolean

## volume\_group\_instance

Information about a volume group. This resource type has queryable associations from policy, migration\_session, volume

Name	Description	Schema
<b>creation_time_stamp</b> <i>optional</i>	The time at which the volume group was created.	string (date-time)

Name	Description	Schema
<b>description</b> <i>optional</i>	Description for the volume group.	string
<b>id</b> <i>optional</i>	Unique identifier of the volume group.	string
<b>is_importing</b> <i>optional</i>	Indicates whether the volume group is being imported.	boolean
<b>is_protectable</b> <i>optional</i>	<p>This is a derived field that is set internally. It enables/disables the following functionality:</p> <ul style="list-style-type: none"> <li>• Whether a protection_policy can be applied to the group.</li> <li>• Whether manual snapshots can be taken.</li> <li>• Whether clones of the group can be created.</li> </ul>	boolean
<b>is_replication_destination</b> <i>optional</i>	<p>Indicates whether this volume group is a replication destination. A replication destination will be created by the system when a replication session is created. When there is an active replication session, all the user operations are restricted including modification, deletion, host operation, snapshot, clone, etc. After the replication session is deleted, the replication destination will remain as it is until the end user changes it to be a non-replication destination. After the change, it becomes a primary volume group. If the end user keeps it as a replication destination, when the replication session is recreated, the replication destination could potentially be reused in the new session to avoid a time-consuming full sync. This property is only valid for primary and clone volume groups.</p> <p><b>Default</b> : <code>false</code></p>	boolean
<b>is_write_order_consistent</b> <i>optional</i>	<p>For a primary or a clone volume group, this property determines whether snapshot sets of the group will be write order consistent.</p> <p>For a snapshot set, this property indicates whether the snapshot set is write-order consistent.</p>	boolean
<b>location_history</b> <i>optional</i>	A list of locations. The list of locations includes the move to the current appliance. Filtering on the fields of this embedded resource is not supported.	< <a href="#">location_history_instance</a> > array

Name	Description	Schema
<b>migration_session</b> <i>optional</i>	This is the embeddable reference form of migration_session_id attribute.	<a href="#">migration_session_instance</a>
<b>migration_session_id</b> <i>optional</i>	Unique identifier of the migration session assigned to the volume group when it is part of a migration activity.	string
<b>name</b> <i>optional</i>	Name of the volume group. This property supports case-insensitive filtering	string
<b>placement_rule</b> <i>optional</i>		<a href="#">VGPlacementRule</a>
<b>protection_data</b> <i>optional</i>		<a href="#">protection_data_instance</a>
<b>protection_policy</b> <i>optional</i>	This is the embeddable reference form of protection_policy_id attribute.	<a href="#">policy_instance</a>
<b>protection_policy_id</b> <i>optional</i>	Unique identifier of the protection policy assigned to the volume group. This attribute is only applicable to primary and clone volume groups.	string
<b>type</b> <i>optional</i>		<a href="#">VolumeTypeEnum</a>
<b>type_l10n</b> <i>optional</i>	Localized message string corresponding to type	string
<b>volumes</b> <i>optional</i>	List of the volumes that are associated with this volume_group.	< <a href="#">volume_instance</a> > array

## volume\_group\_modify

Modify volume group request.



Name	Description	Schema
<b>description</b> <i>optional</i>	New description for the volume group. The description should not have any unprintable characters. If an empty string is specified, the description will be cleared. <b>Maximal length</b> : 256	string
<b>force</b> <i>optional</i>	Normally a replication destination volume group cannot be modified since it is controlled by replication. However, there can be cases where replication has failed or is no longer active and the replication destination volume group needs to be cleaned up. With the force option, the user will be allowed to remove the protection policy from the replication destination volume group provided that the replication session has never been synchronized. This parameter defaults to false, if not specified. <b>Default</b> : false	boolean
<b>is_replication_destination</b> <i>optional</i>	New value for is_replication_destination property. is_replication_destination property of all the volumes in the volume group will be modified to the specified value.  Modification of is_replication will not be transactional in nature. If the command only succeeds in modifying the is_replication_destination property of a subset of volumes, is_replication_destination property for the volume group will be set to true.  Modification of this property is idempotent.  This parameter is only valid when modifying a primary or a clone volume group, only when the volume group is no longer the destination of a replication session, and may only be set to false.	boolean
<b>is_write_order_consistent</b> <i>optional</i>	A boolean flag to indicate whether snapshot sets of the volume group will be write-order consistent.  This parameter is only valid when modifying a primary or a clone volume group.	boolean
<b>name</b> <i>optional</i>	New name for the volume group. The name should contain no special HTTP characters and no unprintable characters. Although the case of the name provided is reserved, uniqueness check is case-insensitive, so the same name in two different cases is not considered unique. <b>Maximal length</b> : 128	string

Name	Description	Schema
<b>protection_policy_id</b> <i>optional</i>	Unique identifier of the protection policy to assign to a primary or clone volume group. If an empty string is specified, protection policy will be removed from the volume group.	string

## volume\_group\_refresh

Refresh volume group request.

Name	Description	Schema
<b>backup_snapshot_profile</b> <i>optional</i>		<a href="#">volume_group_snapshot</a>
<b>create_backup_snapshot</b> <i>optional</i>	This parameter specifies whether a backup snapshot set of the target volume group needs to be created before refreshing it. This parameter defaults to true, if not specified. <b>Default</b> : <code>true</code>	boolean
<b>from_object_id</b> <i>required</i>	Unique identifier of the volume group to refresh from. This is referred to as the source volume group.	string

## volume\_group\_refresh\_response

volume group refresh response.

Name	Description	Schema
<b>backup_snapshot_hot_id</b> <i>optional</i>	Unique identifier of the backup snapshot set. This parameter will not be available if the <b>create_backup_snapshot</b> flag was set to false.	string

## volume\_group\_remove\_members

Request to remove members from a volume group.

Name	Description	Schema
<b>volume_ids</b> <i>required</i>	A list of volumes that need to be removed from the volume group. This list cannot be empty.	< string > array

# volume\_group\_restore

Restore volume group request.

Name	Description	Schema
<b>backup_snap_profile</b> <i>optional</i>		<a href="#">volume_group_snapshot</a>
<b>create_backup_snap</b> <i>optional</i>	This parameter specifies whether a backup snapshot set of the target volume group needs to be created before attempting restore. This parameter defaults to true, if not specified. <b>Default</b> : <code>true</code>	boolean
<b>from_snap_id</b> <i>required</i>	Unique identifier of the snapshot set to restore from. This is referred to as the source volume group.	string

# volume\_group\_restore\_response

volume group restore response.

Name	Description	Schema
<b>backup_snaps_hot_id</b> <i>optional</i>	Unique identifier of the backup snapshot set. This parameter will not be available if the <b>create_backup_snap</b> was set to false.	string

# volume\_group\_snapshot

Snapshot volume group request.

Name	Description	Schema
<b>description</b> <i>optional</i>	Optional description for the snapshot set. If description is not specified, the description for the snapshot set will not be set.	string
<b>name</b> <i>required</i>	Unique name of the snapshot set to be created.	string

# volume\_group\_snapshot\_response

Unique identifier of the new snapshot volume.

Name	Schema
<b>id</b> <i>optional</i>	string

## volume\_instance

Details about a volume, including snapshots and clones of volumes. This resource type has queryable associations from appliance, policy, migration\_session, host\_volume\_mapping, volume\_group

Name	Description	Schema
<b>appliance</b> <i>optional</i>	This is the embeddable reference form of appliance_id attribute.	<a href="#">appliance_instance</a>
<b>appliance_id</b> <i>optional</i>	Unique identifier of the appliance on which the volume is provisioned.	string
<b>creation_time_stamp</b> <i>optional</i>	Time when the volume was created.	string (date-time)
<b>description</b> <i>optional</i>	Description of the volume. This value must contain 128 or fewer printable Unicode characters. <b>Maximal length : 128</b>	string
<b>id</b> <i>optional</i>	Unique identifier of the volume instance.	string
<b>is_replication_destination</b> <i>optional</i>	Indicates whether this volume is a replication destination. A replication destination will be created by the system when a replication session is created. When there is an active replication session, all the user operations are restricted including modification, deletion, host operation, snapshot, clone, etc. After the replication session is deleted, the replication destination volume will remain as it is until the end user changes it to be a non-replication destination. After the change, it becomes a primary volume. If the end user keeps it as a replication destination, when the replication session is recreated, the replication destination volume could potentially be reused in the new session to avoid a time-consuming full sync. This property is only valid for primary and clone volumes. <b>Default : false</b>	boolean

Name	Description	Schema
<b>location_history</b> <i>optional</i>	Filtering on the fields of this embedded resource is not supported.	< <a href="#">location_history_instance</a> > array
<b>mapped_volumes</b> <i>optional</i>	This is the inverse of the resource type <code>host_volume_mapping</code> association.	< <a href="#">host_volume_mapping_instance</a> > array
<b>migration_session</b> <i>optional</i>	This is the embeddable reference form of <code>migration_session_id</code> attribute.	<a href="#">migration_session_instance</a>
<b>migration_session_id</b> <i>optional</i>	Unique identifier of the migration session assigned to the volume if it is part of a migration activity.	string
<b>name</b> <i>optional</i>	Name of the volume. This value must contain 128 or fewer printable Unicode characters. This property supports case-insensitive filtering <b>Maximal length : 128</b>	string
<b>node_affinity</b> <i>optional</i>	Node affinity. Node which offers optimized IO for volume, values are:	<a href="#">NodeAffinityEnum</a>
<b>node_affinity_l10n</b> <i>optional</i>	Localized message string corresponding to <code>node_affinity</code>	string
<b>performance_policy_id</b> <i>optional</i>	Unique identifier of the performance policy assigned to the volume.	string
<b>protection_data</b> <i>optional</i>		<a href="#">protection_data_instance</a>
<b>protection_policy</b> <i>optional</i>	This is the embeddable reference form of <code>protection_policy_id</code> attribute.	<a href="#">policy_instance</a>
<b>protection_policy_id</b> <i>optional</i>	Unique identifier of the protection policy assigned to the volume. Only applicable to primary and clone volumes.	string

Name	Description	Schema
<b>size</b> <i>optional</i>	Size of the volume in bytes. Minimum volume size is 1MB. Maximum volume size is 256TB. Size must be a multiple of 8192. <b>Minimum value</b> : 1048576 <b>Maximum value</b> : 281474976710656	integer (int64)
<b>state</b> <i>optional</i>		VolumeStateEnum
<b>state_l10n</b> <i>optional</i>	Localized message string corresponding to state	string
<b>type</b> <i>optional</i>		VolumeTypeEnum
<b>type_l10n</b> <i>optional</i>	Localized message string corresponding to type	string
<b>volume_group_s</b> <i>optional</i>	List of the volume_groups that are associated with this volume.	< volume_group_instance > array
<b>wwn</b> <i>optional</i>	World wide name of the volume.	string

## volume\_modify

Name	Description	Schema
<b>description</b> <i>optional</i>	New description of the volume. This value must contain 128 or fewer printable Unicode characters. <b>Maximal length</b> : 128	string
<b>expiration_timestamp</b> <i>optional</i>	New expiration time of the snapshot. Expired snapshots are deleted by the snapshot aging service that runs periodically in the background. If not specified, the snapshot never expires. Use a maximum timestamp value to set an expiration to never expire.	string (date-time)

Name	Description	Schema
<b>force</b> <i>optional</i>	Normally a replication destination volume cannot be modified since it is controlled by replication. However, there can be cases where replication has failed or is no longer active and the replication destination volume needs to be cleaned up. With the force option, the user will be allowed to remove the protection policy from the replication destination volume provided that the replication session has never been synchronized and the last_sync_timestamp property is empty. This parameter defaults to false, if not specified. <b>Default</b> : <b>false</b>	boolean
<b>is_replication_destination</b> <i>optional</i>	New value for is_replication_destination property. The modification is only supported for primary and clone volume, only when the current value is true and there is no longer a replication session using this volume as a destination, and only to false.	boolean
<b>name</b> <i>optional</i>	New name of the volume. This value must contain 128 or fewer printable Unicode characters. <b>Maximal length</b> : <b>128</b>	string
<b>node_affinity</b> <i>optional</i>	Set which node will optimized for IO.	<a href="#">NodeAffinityEnum</a>
<b>performance_policy_id</b> <i>optional</i>	Unique identifier of the performance policy assigned to the volume.	string
<b>protection_policy_id</b> <i>optional</i>	Unique identifier of the protection policy assigned to the volume.	string
<b>size</b> <i>optional</i>	New size of the volume in bytes, must be a multiple of 8192, must be bigger than the current volume size. Maximum volume size is 256TB. <b>Minimum value</b> : <b>8192</b> <b>Maximum value</b> : <b>281474976710656</b>	integer (int64)

## volume\_refresh

Name	Description	Schema
<b>backup_snap_profile</b> <i>optional</i>	Profile for the backup snapshot.	<a href="#">volume_snapshot</a>
<b>create_backup_snap</b> <i>optional</i>	Indicates whether to create a backup snapshot of the volume before refreshing. <b>Default : false</b>	boolean
<b>from_object_id</b> <i>required</i>	Unique identifier of the source object of the refresh operation. The refresh operation only refreshes the data.	string

## volume\_refresh\_response

Unique identifier of the backup snapshot if one is created.

Name	Schema
<b>backup_snapshot_id</b> <i>optional</i>	string

## volume\_restore

Name	Description	Schema
<b>backup_snap_profile</b> <i>optional</i>	Profile for the backup snapshot.	<a href="#">volume_snapshot</a>
<b>create_backup_snap</b> <i>optional</i>	Indicates whether to create a backup snapshot of the volume before restoring. <b>Default : true</b>	boolean
<b>from_snap_id</b> <i>required</i>	Unique identifier of the source snapshot for the restore operation.	string

## volume\_restore\_response

Unique identifier of the backup snapshot if one is created.



Name	Schema
<b>backup_snapshot_id</b> <i>optional</i>	string

## volume\_snapshot

Name	Description	Schema
<b>creator_type</b> <i>optional</i>		<a href="#">StorageCreatorType</a> Enum
<b>description</b> <i>optional</i>	Description of the snapshot. This value must contain 128 or fewer printable Unicode characters. <b>Maximal length : 128</b>	string
<b>expiration_timestamp</b> <i>optional</i>	Expiration time of the snapshot. Expired snapshots are deleted by the snapshot aging service that runs periodically in the background. If not specified, the snapshot never expires. Use a maximum timestamp value to set an expiration to never expire.	string (date-time)
<b>name</b> <i>optional</i>	Name of the snapshot to be created. This value must contain 128 or fewer printable Unicode characters. The default name of the volume snapshot is the date and time when the snapshot is taken. <b>Maximal length : 128</b>	string
<b>performance_policy_id</b> <i>optional</i>		string

## volume\_snapshot\_response

Unique identifier of the new snapshot volume.

Name	Schema
<b>id</b> <i>optional</i>	string

## vvol\_error\_response

Name	Description	Schema
<b>description</b> <i>optional</i>		string
<b>error_code</b> <i>optional</i>	<b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)

## wear\_metrics\_by\_drive\_instance

Wear metrics for the drives collected at twenty second interval.

*Polymorphism* : Inheritance

*Discriminator* : entity

Name	Description	Schema
<b>drive_id</b> <i>optional</i>	Reference to the associated drive which these metrics were recorded.	string
<b>entity</b> <i>required</i>		<a href="#">MetricsEntityEnum</a>
<b>entity_l10n</b> <i>optional</i>	Localized message string corresponding to entity	string
<b>percent_endurance_remaining</b> <i>optional</i>	The percentage of drive wear remaining.	number (float)
<b>repeat_count</b> <i>optional</i>	Number of times the metrics is repeated. <b>Minimum value</b> : 0 <b>Maximum value</b> : 2147483647	integer (int32)
<b>timestamp</b> <i>optional</i>	End of sample period.	string (date-time)

## x509\_certificate\_decommission

x509 certificate decommission operation request body.

Name	Description	Schema
<b>scope</b> <i>required</i>	Scope of the certificate to be decommissioned, for example, remote system global id, serial number and such.	string

Name	Description	Schema
<b>service</b> <i>required</i>		<a href="#">X509CertificateServiceEnum</a>

## x509\_certificate\_exchange

x509 certificate exchange operation request body.

Name	Description	Schema
<b>address</b> <i>required</i>	Peer's ip v4 or v6 address or dns name.	string (ip-address)
<b>password</b> <i>required</i>	Password used in basic authentication to remote PowerStore cluster.	string (password)
<b>port</b> <i>required</i>	Peer's port number. <b>Minimum value</b> : 0 <b>Maximum value</b> : 65535	integer (int32)
<b>service</b> <i>required</i>		<a href="#">X509CertificateServiceEnum</a>
<b>username</b> <i>required</i>	Username used in basic authentication to remote PowerStore cluster.	string

## x509\_certificate\_instance

Name	Description	Schema
<b>id</b> <i>optional</i>	Unique identifier of X509 Certificate instance.	string
<b>is_current</b> <i>optional</i>	Indicates whether this is the current X509 Certificate to be used by the service or this X509 Certificate will be used in the future. When <code>is_current</code> is false for a X509 Certificate, this X509 Certificate will not be picked up by the service. Potential usage of this attribute is to prepare for the certificate roll-over/rotation.	boolean
<b>is_valid</b> <i>optional</i>	Indicates whether this is a valid X509 Certificate. When X509 Certificate is expired or X509 Certificate of server type missing either a private key or a valid certificate entry, it will be false.	boolean

Name	Description	Schema
<b>members</b> <i>optional</i>	Member certificates included in this x509_certificate. Member certificates should be remained in an ordered sequence. Filtering on the fields of this embedded resource is not supported.	< <a href="#">member_certificate_instance</a> > array
<b>service</b> <i>optional</i>		<a href="#">X509CertificateServiceEnum</a>
<b>service_110n</b> <i>optional</i>	Localized message string corresponding to service	string
<b>type</b> <i>optional</i>		<a href="#">X509CertificateUsageTypeEnum</a>
<b>type_110n</b> <i>optional</i>	Localized message string corresponding to type	string