

Inline image 1

**API Translator Plan**

**DRAFT**

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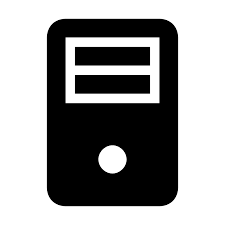
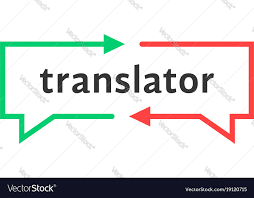
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# Introduction

This guide describes the functions to be translated by InfiniBox translator – requests as sent by resource manager (RM) to current SOS, and how the response should be revised. Some response need to be follow by a notification message back to RM. The target for all responses is always RM, while, in most cases the target for the rewritten calls is the backend storage (InfiniBox) while in other cases it is OpenStack Glance.

This document is a complementary document to “API and interface guide”



4. Modified Response

2’; 3’ - Modified request and response (for image API)

3. Response

2. modified request

1. Request

5. Optional Notification



## Change Control

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Date | Description | By |
| 1.0 | October 15, 2018 | Initial Release | Itai Weisman, Solution Engineering Team Leader |

## Conventions

Throughout this guide, all variables and object names/types will be marked using angle brackets (“<” and “>”)

For request/response forms on JSON, arrays will be marked with curly brackets ( ‘{‘ and ‘}’) and arrays with square brackets (‘[‘ and ‘]’)

Constants will be written in BLUE

General

## Authorization

The Following parameters will be sent on each request as headers:

|  |  |  |
| --- | --- | --- |
| Attribute | Value | Example |
| ServiceCode | **RM** | **RM** |
| ServiceKey | Authentication key provided by OpenStack Keystone | MTIzMTIzMTQK |

InfiniBox credentials will be kept securely on the translator node.

## Backend storage selection

The attribute “zone” will be passed on each request. This parameter specifies the backend InfiniBox to be used. A mapping table will be configured in the translator

Note – “zone”, “ServiceKey” and “ServiceCode” will be sent as headers on each request and won’t be specified

below.

## Formatting

In all sections data format will be YYYY-MM-DD HH:MM:SS (for instance 2018-07-12 16:25:51)

All sizes will be specified in GB.

## Requirements

|  |  |
| --- | --- |
| Attribute | Value |
| Maximum Hosts | 500 |
| Maximum Volumes | 100,000 |
| Maximum Schedules | As per volume count |

## Image API

### 1.1 Get all images

**URI and Method:** GET /api/v1/images

**Filters:** zone\_code and image name can be used as a filter

This API will be used to list all images as defined on **OpenStack Glance.**

a description of all parameters in section 1.2 below.

#### **Request Body**

None.

#### **Response Body**

|  |  |  |  |
| --- | --- | --- | --- |
| Level 1 | Level 2 | Level 3 | Description / Value |
| [images] |  |  |  |
|  | {} |  |  |
|  |  | zone\_code |  |
|  |  | id | <ID of the image as provided by glace> |
|  |  | name | <Name of the image as provided by glance> |
|  |  | type | **Image** |
|  |  | status | <status of the image as provided by glance> |
|  |  | visibility | <visibility of the image as provided by glance> |
|  |  | format | < <disk\_format> parameter as returned by glance> |
|  |  | size | <size of the image as provided by glance> |
|  |  | create\_at | < <created\_at> parameter as returned by glance> |

### Get one image

**URI and Method:** GET/api/v1/images/<id>

**Filters:** zone\_code, image name can be used as a filter

This API will be used to query an image as defined on **OpenStack Glance.**

#### Request URL Parameters

|  |  |
| --- | --- |
| Parameter | Description |
| ID | ID of the image to be queried |

#### 

#### **Request Body**

None.

#### **Response Body**

|  |  |  |  |
| --- | --- | --- | --- |
| Level 1 | Level 2 | Level 3 | Description / Value |
| [images] |  |  |  |
|  | {} |  |  |
|  |  | zone\_code |  |
|  |  | id | <ID of the image as provided by glace> |
|  |  | name | <Name of the image as provided by glance> |
|  |  | type | **Image** |
|  |  | status | <status of the image as provided by glance> |
|  |  | visibility | <visibility of the image as provided by glance> |
|  |  | format | < <disk\_format> parameter as returned by glance> |
|  |  | size | <size of the image as provided by glance> |
|  |  | create\_at | < <created\_at> parameter as returned by glance> |

● Normal response codes: 200 (OK)

● Error response codes: 404 (Not Found), 401 (Unauthorized)

#### **Notification**

None

## Volume API

### 2.1 Get all volumes

**URI and method:** GET /api/v1/volumes

**Filters:** iscsi\_init can be used as a filter

* If infinidat transfer success to map volumes to host, <status> of volumes is “in\_use”.

This API will be used to list all images as defined in the InfiniBox.

a description of all parameters in section 2.2 below.

### 2.2 Get one image

**URI and method:** GET /api/v1/volumes/<id>

Skipping this API as already been approved

### 2.3 Create a volume

**URI and method:** POST /api/v1/volumes

Skipping this API as already been approved by

### 2.4 Delete a volume

**URI and method:** DELETE /api/v1/volumes/<id>

Skipping this API as already been approved by

### 2.5 Map a volume to a host

**URI and method:** POST /api/v1/volumes/attachment

This API will be used to map a volume to a PC.

#### **Request URL Parameters**

#### None.

#### **Request Body**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Level 1 | Level 2 | Level 3 | Level 4 | Description |
| {volume} |  |  |  |  |
|  | iscsi\_init |  |  | <The IQN of the PC to be mapped> |
|  | action |  |  | ATTACH |
|  | [volumes] |  |  |  |
|  |  | {} |  |  |
|  |  |  | volume\_id | <ID of the volume to be mapped> |
|  |  |  | order | <LUN address for the volume to be mapped> |

#### **Response Body**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Level 1 | Level 2 | Level 3 | Level 4 | Description |
| {volumeAction} |  |  |  |  |
|  | iscsi\_init |  |  | <the IQN of the PC to be mapped> |
|  | action |  |  | ATTACH |
|  | [volumes] |  |  |  |
|  |  | {} |  |  |
|  |  |  | Volume\_id | <ID of the volume to be mapped> |
|  |  |  | Order | <LUN address for the volume to be mapped> |
|  | status |  |  | Either fail or success |

● Normal response codes: 200 (OK)

● Error response codes: 404 (Not Found)

#### Notification

None

### 2.6 Unmap a volume from a host

**URI and method:** POST /api/v1/volumes/attachment

This API will be used to unmap a volume from a PC.

It will check if the IQN associated with the host is disconnected, for three times in a three seconds interval, only if then the IQN is really disconnected it will attempt to unmap, otherwise it will fail with HTTP423. And if delete message is received when a volume is attached to host, it should response with HTTP409 including the message is in used.

#### **Request URL Parameters**

#### None.

#### **Request Body**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Level 1 | Level 2 | Level 3 | Level 4 | Description |
| {volume} |  |  |  |  |
|  | iscsi\_init |  |  | <The IQN of the PC to be mapped> |
|  | action |  |  | DETACH |
|  | [volumes] |  |  |  |
|  |  | {} |  |  |
|  |  |  | volume\_id | <ID of the volume to be mapped> ;klo |
|  |  |  | order | <LUN address for the volume to be mapped> |

#### **Response Body**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Level 1 | Level 2 | Leve 3 | Level 4 | Description |
| {volumeAction} |  |  |  |  |
|  | iscsi\_init |  |  | <The IQN of the PC to be mapped> |
|  | action |  |  | DETACH |
|  | [volumes] |  |  |  |
|  |  | {} |  |  |
|  |  |  | volume\_id | <ID of the volume to be mapped> |
|  |  |  | order | <LUN address for the volume to be mapped> |
|  | status |  |  | Either fail or success |

#### ● Normal response codes: 200 (OK)

#### ● Error response codes: 404 (Not Found) 409 (volume being used) 423 (host is up)

#### **Notification**

None

### 2.7 Expand a volume

URI and Method: POST /api/v1/volumes/<id>/expand

This API will be used to extend a volume.

#### **Request URL Parameters**

|  |  |
| --- | --- |
| Parameter | Value |
| <volume ID> | Volume ID to be expanded |

#### **Request Body**

|  |  |  |
| --- | --- | --- |
| Level 1 | Level 2 | Description |
| {Volume} |  |  |
|  | size | <the new size of the volume after extension> |

#### **Response Body**

#### None

● Normal response codes: 200 (OK)

● Error response codes: 404 (Not Found), 400 (Bad Request)

#### **Notification**

|  |  |
| --- | --- |
| Attribute | Description |
| volume\_id | <ID of the volume> |
| snapshot\_id | **“”** |
| notify\_type | **volume\_extend** |
| status | **available** |
| result | **success** |
| create\_at | <message time> |

## 3. Snapshot API

### 3.1 Get all snapshots

**URI and Method:** GET /api/v1/volumes/<volume\_id>/snapshots

This API is used to get all snapshots available for a volume

* If infinidat transfer success to map snapshots to host(pc), <status> of volumes is “in\_use”.

#### **Request URL Parameters**

|  |  |
| --- | --- |
| Parameter | Value |
| <volume ID> | the ID of the volume being queried for snapshots |

#### **Request Body**

None

#### **Response Body**

|  |  |  |  |
| --- | --- | --- | --- |
| Level 1 | Level 2 | Level 3 | Description |
| [snapshots] |  |  |  |
|  | {} |  |  |
|  |  | id | <snapshot\_id> |
|  |  | name | <snapshot name> |
|  |  | desc | <snapshot descritpion> |
|  |  | size | <snapshot size> |
|  |  | status | available , in\_use |
|  |  | volume\_id | <Source volume ID> |
|  |  | create at | <snapshot creation time> |
|  |  | rollback\_starttime | <start time for last rollback> / null |
|  |  | rollback\_endtime | <end time for last rollback> / null |
|  |  | rollback\_speed | Always HIGHEST with InfiniBox / null |
|  |  | rollback\_rate | Always -1 with InfiniBox / null |

● Normal response codes: 200 (OK)

● Error response codes: 403 (Forbidden), 404 (Not Found), 401 (Unauthorized)

#### **Notification**

None

### 3.2 Create a snapshot

**URI and Method:** POST /api/v1/volumes/<volume\_id>/snapshots

This API will be used to create a snapshot

#### **Request URL Parameters**

|  |  |
| --- | --- |
| Parameter | Value |
| <volume ID> | The ID of volume that being snapshotted. |

#### **Request Body**

|  |  |  |
| --- | --- | --- |
| Level 1 | Level 2 | Description |
| {snapshot} |  |  |
|  | name | <snapshot name> |
|  | desc | <snapshot description> |

**Response Body**

|  |  |  |
| --- | --- | --- |
| Level 1 | Level 2 | Description |
| {snapshot} |  |  |
|  |  |  |
|  | id | <snapshot\_id> |
|  | name | <snapshot name> |
|  | desc | <snapshot description> |
|  | size | <snapshot size> |
|  | status | creating |
|  | volume\_id | <Source volume ID> |
|  | create at | <snapshot creation time> |
|  | rollback\_starttime | null |
|  | rollback\_endtime | null |
|  | rollback\_speed | null |
|  | rollback\_rate | null |

● Normal response codes: 201 (Created)

● Error response codes: 400 (Bad Request), 403 (Forbidden), 404 (Not Found), 401 (Unauthorized)

#### **Notification**

|  |  |
| --- | --- |
| Attribute | Description |
| volume\_id | <ID of the volume> |
| snapshot\_id | <ID of the snapshot> |
| notify\_type | **snapshot\_create** |
| status | **available** |
| result | **success** |
| create\_at | <snapshot creation time> |

### 3.3 Snapshot Deletion

**URI and Method:** DELETE /api/v1/volumes/<volume\_id>/snapshots/<snapshot\_id>

This API is used to delete one snapshot

#### **Request URL Parameters**

|  |  |
| --- | --- |
| Parameter | Value |
| <volume ID> | The ID of volume that contains a snapshot being deleted |
| <snapshot\_id> | The ID of the snapshot to be deleted. |

#### **Request Body**

None

#### **Response Body**

None

#### ● Normal response codes: 200 (OK)

#### ● Error response codes: 403 (Forbidden), 404 (Not Found), 401 (Unauthorized)

#### **Notification**

None

### 3.4 Restore from a snapshot

**URI and Method:** POST /api/v1/volumes/<volume\_id>/snapshots/<snapshot\_id>/action

This API will be used to restore a volume from a snapshot. It will also be used to update the value of “rollback\_starttime” and “rollback\_endtime” with the snapshot metadata

#### **Request URL Parameters**

|  |  |
| --- | --- |
| Parameter | Value |
| <volume\_id> | The ID of volume to be reverted |
| <snapshot\_id> | The ID of the snapshot to be reverted from |

#### **Request Body**

None

#### **Response Body**

None

#### ● Normal response codes: 200 (OK)

#### ● Error response codes: 404 (Not Found)

#### **Notification**

|  |  |
| --- | --- |
| Attribute | Description |
| volume\_id | <ID of the volume> |
| snapshot\_id | <ID of the snapshot> |
| notify\_type | **snapshot\_revert** |
| status | **activated** |
| result | **success** |
| create\_at | <time of the message> |

### 3.5 Get volume snapshotting schedule

**URI and Method:** GET /api/v1/volumes/<volume\_id>/snapshots/schedule

This API is used to delete a snapshot schedule

#### **Request URL Parameters**

|  |  |
| --- | --- |
| Parameter | Value |
| <volume ID> | The ID of volume that being queried for scheudle. |

#### **Request Body**

None

**Response Body**

|  |  |  |
| --- | --- | --- |
| Level 1 | Level 2 | Description |
| {Schedule} |  |  |
|  | volume\_id | <id of the volume> |
|  | mon | Whether snapshot is taken on Monday (true) or not (false) |
|  | tue | Whether snapshot is taken on Tuesday (true) or not (false) |
|  | wed | Whether snapshot is taken on Wednesday (true) or not (false) |
|  | thu | Whether snapshot is taken on Thursday (true) or not (false) |
|  | fri | Whether snapshot is taken on Friday (true) or not (false) |
|  | sat | Whether snapshot is taken on Saturday (true) or not (false) |
|  | sun | Whether snapshot is taken on Sunday (true) or not (false) |
|  | hour | <Hour to run snapshot 0-23> |
|  | minute | <minute to run the snapshot 0-59> |
|  | id | <id of the schedule> |
|  | name | <name of the schedule> |
|  | desc | <description of the schedule> |
|  | period\_of\_keep | <time to keep the snapshots, in weeks> |
|  | number\_of\_keep | <maximum number of snapshots to keep> |
|  | status | Either disable, runnable or running *(“running status needs the help to SOS team”)* |

#### ● Normal response codes: 200 (OK)

#### ● Error response codes: 404 (Not Found)

#### Notification

None

### 3.6 Create a snapshot schedule

**URI and Method:** POST /api/v1/volumes/<volume\_id>/snapshots/schedule

This API is used to create a schedule

#### **Request URL Parameters**

|  |  |
| --- | --- |
| Parameter | Value |
| <volume\_id> | The ID of volume in which schedule is created |

#### **Request Body**

|  |  |  |
| --- | --- | --- |
| Level 1 | Level 2 | Description |
| {schedule} |  |  |
|  | mon | Whether snapshot is taken on Monday (true) or not (false) |
|  | tue | Whether snapshot is taken on Tuesday (true) or not (false) |
|  | wed | Whether snapshot is taken on Wednesday (true) or not (false) |
|  | thu | Whether snapshot is taken on Thursday (true) or not (false) |
|  | fri | Whether snapshot is taken on Friday (true) or not (false) |
|  | sat | Whether snapshot is taken on Saturday (true) or not (false) |
|  | sun | Whether snapshot is taken on Sunday (true) or not (false) |
|  | hour | <Hour to run snapshot 0-23> |
|  | minute | <minute to run the snapshot 0-59> |
|  | name | <name of the schedule> |
|  | desc | <description of the schedule> |
|  | period\_of\_keep | <time to keep the snapshots, in weeks> |
|  | number\_of\_keep | <maximum number of snapshots to keep> |
|  | status | Either disable, runnable |

#### **Response Body**

|  |  |  |
| --- | --- | --- |
| Level 1 | Level 2 | Description |
| {schedule} |  |  |
|  | volume\_id | <id of the volume> |
|  | mon | Whether snapshot is taken on Monday (true) or not (false) |
|  | tue | Whether snapshot is taken on Tuesday (true) or not (false) |
|  | wed | Whether snapshot is taken on Wednesday (true) or not (false) |
|  | thu | Whether snapshot is taken on Thursday (true) or not (false) |
|  | fri | Whether snapshot is taken on Friday (true) or not (false) |
|  | sat | Whether snapshot is taken on Saturday (true) or not (false) |
|  | sun | Whether snapshot is taken on Sunday (true) or not (false) |
|  | hour | <Hour to run snapshot 0-23> |
|  | minute | <minute to run the snapshot 0-59> |
|  | id | <id of the schedule> |
|  | name | <name of the schedule> |
|  | desc | <description of the schedule> |
|  | period\_of\_keep | <time to keep the snapshots, in weeks> |
|  | number\_of\_keep | <maximum number of snapshots to keep> |
|  | status | Either disable, runnable or running |

● Normal response codes: 201 (Created)

● Error response codes: 404 (Not Found)

#### **Notification**

None

### 3.7 Schedule modification

**URI and Method:** PUT /api/v1/volumes/<volume\_id>/snapshots/schedule/<schedule\_id>

This API will be used to modify the schedule of a snapshot

#### **Request URL Parameters**

|  |  |
| --- | --- |
| Parameter | Value |
| <volume\_id> | The ID of volume that contains a schedule to be modified |
| <schedule\_id> | ID of the schedule to be modified |

#### **Request Body**

|  |  |  |
| --- | --- | --- |
| Level 1 | Level 2 | Description |
| {schedule} |  |  |
|  | mon | Whether snapshot is taken on Monday (true) or not (false) |
|  | tue | Whether snapshot is taken on Tuesday (true) or not (false) |
|  | wed | Whether snapshot is taken on Wednesday (true) or not (false) |
|  | thu | Whether snapshot is taken on Thursday (true) or not (false) |
|  | fri | Whether snapshot is taken on Friday (true) or not (false) |
|  | sat | Whether snapshot is taken on Saturday (true) or not (false) |
|  | sun | Whether snapshot is taken on Sunday (true) or not (false) |
|  | hour | <Hour to run snapshot 0-23> |
|  | minute | <minute to run the snapshot 0-59> |
|  | name | <name of the schedule> |
|  | desc | <description of the schedule> |
|  | period\_of\_keep | <time to keep the snapshots, in weeks> |
|  | number\_of\_keep | <maximum number of snapshots to keep> |
|  | status | Either disable, runnable or running |

#### **Response Body**

|  |  |  |
| --- | --- | --- |
| Level 1 | Level 2 | Description |
| {schedule} |  |  |
|  | volume\_id | <id of the volume> |
|  | mon | Whether snapshot is taken on Monday (true) or not (false) |
|  | tue | Whether snapshot is taken on Tuesday (true) or not (false) |
|  | wed | Whether snapshot is taken on Wednesday (true) or not (false) |
|  | thu | Whether snapshot is taken on Thursday (true) or not (false) |
|  | fri | Whether snapshot is taken on Friday (true) or not (false) |
|  | sat | Whether snapshot is taken on Saturday (true) or not (false) |
|  | sun | Whether snapshot is taken on Sunday (true) or not (false) |
|  | hour | <Hour to run snapshot 0-23> |
|  | minute | <minute to run the snapshot 0-59> |
|  | id | <id of the schedule> |
|  | name | <name of the schedule> |
|  | desc | <description of the schedule> |
|  | period\_of\_keep | <time to keep the snapshots, in weeks> |
|  | number\_of\_keep | <maximum number of snapshots to keep> |
|  | status | Either disable, runnable or running |

● Normal response codes: 201 (Created)

● Error response codes: 404 (Not Found)

#### **Notification**

None

### 3.8 Delete a schedule

**URI and Method:** DELETE /api/v1/volumes/<volume\_id>/snapshots/schedule/<schedule\_id>

This API is used to delete a volume schedule

#### **Request URL Parameters**

|  |  |
| --- | --- |
| Parameter | Value |
| <volume\_id> | The ID of volume in which schedule is being deleted |
| <schedule\_id> | The ID of the schedule to be deleted |

#### **Request Body**

None

#### **Response Body**

None

● Normal response codes: 201 (Created)

● Error response codes: 404 (Not Found)

#### **Notification**

None

### 3.9 ready to map a snapshot to a host

**URI and method:** POST /api/v1/volumes/snapshots/attachment

This API will be used to map a volume from a PC.

#### **Request URL Parameters**

None.

#### **Request Body**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Level 1 | Level 2 | Level 3 | Level 4 | Description |
| {snapshot} |  |  |  |  |
|  | [snapshots] |  |  |  |
|  |  | {} |  |  |
|  |  |  | volume\_id | <ID of the volume the snapshot belongs> |
|  |  |  | snapshot\_id | <ID of the snapshot to be mapped> |
|  |  |  | order | <LUN address for the snapshot to be mapped> |
|  | iscsi\_init |  |  | <The IQN of the PC to be mapped> |
|  | action |  |  | ATTACH |

#### **Response Body**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Level 1 | Level 2 | Level 3 | Level 4 | Description |
| {snapshotAction} |  |  |  |  |
|  | [snapshots] |  |  |  |
|  |  | {} |  |  |
|  |  |  | volume\_id | <ID of the volume the snapshot belongs> |
|  |  |  | snapshot\_id | <ID of the snapshot to be mapped> |
|  |  |  | order | <LUN address for the snapshot to be mapped> |
|  | iscsi\_init |  |  | <The IQN of the PC to be mapped> |
|  | action |  |  | ATTACH |
|  | status |  |  | Either fail or success |

● Normal response codes: 200 (OK)

● Error response codes: 404 (Not Found)

#### **Notification**

None

### 3.10 unmap a snapshot from a host

**URI and method:** POST /api/v1/volumes/snapshots/attachment

This API will be used to unmap a volume from a PC.

It will check if the IQN associated with the host is disconnected, for three times in a three seconds interval, only if then the IQN is really disconnected it will attempt to unmap, otherwise it will fail with HTTP423. And if delete message is received when a volume is attached to host, it should response with HTTP409 including the message is in used.

#### **Request URL Parameters**

None

#### **Request Body**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Level 1 | Level 2 | Level 3 | Level 4 | Description |
| {snapshot} |  |  |  |  |
|  | [snapshots] |  |  |  |
|  |  | {} |  |  |
|  |  |  | volume\_id | <ID of the volume the snapshot belongs> |
|  |  |  | snapshot\_id | <ID of the snapshot to be mapped> |
|  |  |  | order | <LUN address for the snapshot to be mapped> |
|  | iscsi\_init |  |  | <The IQN of the PC to be mapped> |
|  | action |  |  | DETACH |

#### **Response Body**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Level 1 | Level 2 |  | Level 3 | Description |
| {snapshotAction} |  |  |  |  |
|  | [snapshots] |  |  |  |
|  |  | {} |  |  |
|  |  |  | volume\_id | <ID of the volume the snapshot belongs> |
|  |  |  | snapshot\_id | <ID of the snapshot to be mapped> |
|  |  |  | order | <LUN address for the snapshot to be mapped> |
|  | iscsi\_init |  |  | <The IQN of the PC to be mapped> |
|  | action |  |  | DETACH |
|  | status |  |  | Either fail or success |

● Normal response codes: 200 (OK)

● Error response codes: 404 (Not Found)

#### **Notification**

None

## Miscellaneous APIs

### 4.1 Get API Target

**URI and method:** GET /api/v1/init-target

**Filters:** zone\_code can be used as a filter

This API is used to get the target ISCSI IQN (of the InfiniBox)

#### **Request URL Parameters**

None

#### **Request Body**

None

#### **Response Body**

|  |  |  |  |
| --- | --- | --- | --- |
| Level 1 | Level 2 | Level 3 | Description |
| [ init-target] |  |  |  |
|  | {} |  |  |
|  |  | target | <iscsi IQN of the InfiniBox> |

● Normal response codes: 200 (OK)

● Error response codes: 403 (Forbidden), 404 (Not Found), 401 (Unauthorized)

#### **Notification**

None

### 4.2 PC Power API

**URI and Method:** POST /api/v1/pc\_power

#### This API is used to set a PC status as on In the InfiniBox

#### **Request URL Parameters**

None

**Request Body**

|  |  |  |  |
| --- | --- | --- | --- |
| Level 1 | Level 2 | Level 3 | Description |
| zone\_code |  |  | <zone name> |
| iscsi\_init |  |  | <IQN of the host> |
| pc\_power\_status |  |  | Online |
| attach\_type |  |  | Either **snapshot** or **volume** |
| [volumes] |  |  |  |
|  |  |  |  |
|  | {} |  |  |
|  |  | volume\_id | <ID of the volume> |
|  |  | snapshot\_id | <ID of the snapshot, only if the attach\_type is “snapshot”> |

#### **Response Body**

|  |  |  |
| --- | --- | --- |
| Level 1 | Level 2 | Description |
| {iscsi} |  |  |
|  | zone\_code | <zone\_name> |
|  | iscsi\_init | <The IQN of the PC to be powered\_changed> |
|  | initator\_status | Either **online** or **offline** |

● Normal response codes: 200 (OK)

● Error response codes: 403 (Forbidden), 404 (Not Found), 401 (Unauthorized)

#### Notification

None

### 4.3 Get initiators IQNs

**URI and Method:** GET /api/v1/iscsi\_init/<iscsi\_init>

**Filters**: <zone\_code>

This API is used to query an IQN for information

#### **Request URL Parameters**

|  |  |
| --- | --- |
| Parameter | Value |
| <iscsi\_init> | The IQN of the PC to be quried |

#### **Request Body**

None

#### **Response Body**

|  |  |  |  |
| --- | --- | --- | --- |
| Level 1 | Level 2 | Level 3 | Description |
| {iscsi} |  |  |  |
|  | zone\_code |  | <Zone in which PC resides> |
|  | iscsi\_init |  | <IQN to be quried> |
|  | initiator\_status |  | Whether initiator is online or offline |

● Normal response codes: 200 (OK)

● Error response codes: 403 (Forbidden), 404 (Not Found), 401 (Unauthorized)

#### **Notification**

None