# Hypervisor Configurator REST API Specification

# Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Change** | **Remarks** | **Date** |
| 0.1 | Draft | Hypervisor Configurator REST API document Initial Version | 03/12/2012 |
| 0.2 |  | 3.5 settings controller added. | 04/12/2012 |
| 0.3 |  | Updated the 3.2.2, 3.2.3, 3.4.1 and 3.4.2 sections for Host and Cluster consistency APIs | 26/01/2013 |
| 0.4 |  | In-progress cluster API removed. Update–ref host API included. | 11/02/2013 |
| 0.5 |  | Update–ref host API – new POST call added. | 22/03/2013 |
| 0.6 |  | New REST API for DVS spec settings and migrate management settings. | 03/04/2013 |
| 0.7 |  | New APIs for fusion networks, network alias, VC fix, deploy and rolling update | 03/07/2013 |
| 0.8 |  | Changes to comply with fusion/Oneview REST spec | 19/08/2013 |

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# Introduction

This document outlines various interfaces published by the IC4VC Hypervisor Configurator.

# REST resources

|  |  |
| --- | --- |
| **Resource Name** | **Resource URI** |
| Networks | /rest/networks |
| VM Hosts (host config) | /rest/vmhosts |
| Jobs | /rest/jobs |
| Clusters | /rest/clusters |

# Supported Operations via REST by Hypervisor Configurator

The following is the list of all the REST APIs exposed by Hypervisor Configurator. All the APIs have the following response codes:

* 200: OK - if no errors
* 204: Delete successful – No content
* 400: BAD REQUEST – if the request has empty body or invalid body. The request can be retried with valid body.
* 404: NOT FOUND – if an invalid resource uri is used (e.g., /rest/network. There is no such resource within Hypervisor Configurator, the valid resource is /rest/networks)
* 500: INTERNAL ERROR

List of various consistency status returned by Hypervisor Configurator

* MISMATCH - Host networks configuration mismatch with reference Host.
* OK – Host networks is configured properly.
* NA – Host networks configuration is not supported.
* UNKNOWN – Unable to identify the state of host networks configuration.
* HOSTCONFIG\_INPROGRESS – Host network configuration in progress for a host

## Networks Controller

The Networks resource provides REST API to create the networks (or populate) the VCM Networks in the Hypervisor Configurator for one or more VCM domains. The APIs supports create, list the networks. Also, the purpose can be associated to a given network.

## *Get a single VC network information – GET*

|  |  |
| --- | --- |
| URI | https://<appliance>:<port>/rest/networks/<uuid>?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=value" |
| Method | GET |
| Parameter |  |
| Request Header | Content-Type, Accept (application/json) |
| Request Body |  |
| Response | NetworkDto |
| Response Code | 200 |
| Examples | https://<appliance>:<port>/rest/networks/a71660e7-4b78-4208-a87d-befed6bb04b5?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=value"  Response Body  {  "type":"NetworkDto",  "networkName": "network-1",  "networkId": "LXN2adf6263d75a",  "uuid": "a71660e7-4b78-4208-a87d-befed6bb04b5",  "version": "1",  "purpose": "MGMT\_NETWORK",  "vlanID": "303",  "otherInfo": "mydomain-1",  "eTag":"eTag#1",  "uri":"/rest/networks/a71660e7-4b78-4208-a87d-befed6bb04b5"  } |

## *List all networks - GET*

|  |  |
| --- | --- |
| URI | https://<appliance>:<port>/rest/networks?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=value"&filter=”networkType=VC/OneView” |
| Method | GET |
| Parameter |  |
| Request Header | Content-Type, Accept (application/json) |
| Request Body |  |
| Response | NetworkDto [] |
| Response Code | 200 |
| Examples | https://<appliance>:<port>/rest/networks?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=value"&filter=”networkType=VC/OneView”  Response Body (VC)  {  "type": "NetworksPaginatedCollection",  "networks":[  {  "type":"NetworkDto",  "networkName": "network-1",  "networkId": "LXN2adf6263d75a",  "uuid": "a71660e7-4b78-4208-a87d-befed6bb04b5",  "version": "1",  "purpose": "MGMT\_NETWORK",  "vlanID": "303",  "otherInfo": "mydomain-1"  "eTag":"eTag#1",  "uri":"/rest/networks/a71660e7-4b78-4208-a87d-befed6bb04b5"  },  {  "type":"NetworkDto",  "networkName": "network-2",  "networkId ": "LXN2adf6263d75b",  "uuid": b71660e7-2b78-4208-a87d-befed6bb04b5  "version": "1",  "purpose": "VM\_NETWORK",  "vlanID": "304",  "otherInfo": "mydomain-1"  "eTag":"eTag#0",  "uri":"/rest/networks/b71660e7-2b78-4208-a87d-befed6bb04b5"  },  {  "type":"NetworkDto",  "networkName": "network-3",  "networkId": "LXN2adf6263d75c",  "uuid": "a71660e7-4b78-4208-a87d-befed6bb04b7",  "version": "1",  "purpose": "MGMT\_NETWORK",  "vlanID": "305",  "otherInfo": "mydomain-1,mydomain-2"  "eTag":"eTag#1",  "uri":"/rest/networks/a71660e7-4b78-4208-a87d-befed6bb04b7"  }  ]  }  Response Body (OneView)  {  "type": "NetworksPaginatedCollection",  "networks":[  {  "type":"NetworkDto",  "networkName": "network-1",  "networkId": " a71660e7-4b78-4208-a87d-befed6bb04b5",  "uuid": "a71660e7-4b78-4208-a87d-befed6bb04b5",  "version": "1",  "purpose": "MGMT\_NETWORK",  "vlanID": "303",  "otherInfo": "16.125.73.204"  "eTag": null,  "uri":"/rest/networks/a71660e7-4b78-4208-a87d-befed6bb04b5"  },  {  "type":"NetworkDto",  "networkName": "network-2",  "networkId ": " b71660e7-2b78-4208-a87d-befed6bb04b5",  "uuid": b71660e7-2b78-4208-a87d-befed6bb04b5  "version": "1",  "purpose": "VM\_NETWORK",  "vlanID": "304",  "otherInfo": "16.125.73.203"  "eTag": null,  "uri":"/rest/networks/b71660e7-2b78-4208-a87d-befed6bb04b5"  },  {  "type":"NetworkDto",  "networkName": "network-3",  "networkId": " a71660e7-4b78-4208-a87d-befed6bb04b7",  "uuid": "a71660e7-4b78-4208-a87d-befed6bb04b7",  "version": "1",  "purpose": "MGMT\_NETWORK",  "vlanID": "305",  "otherInfo": " 16.125.73.202"  "eTag": null,  "uri":"/rest/networks/a71660e7-4b78-4208-a87d-befed6bb04b7"  }  ]  } |

## *List all VC networks – GET- (Refresh Network)*

|  |  |
| --- | --- |
| URI | https://<appliance>:<port>/rest/networks?filter=”action=refresh” &filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=value" |
| Method | GET |
| Parameter |  |
| Request Header | Content-Type, Accept (application/json) |
| Request Body |  |
| Response | NetworkDto [] |
| Response Code | 200 |
| Examples | https://<appliance>:<port>/rest/networks?filter=”action=refresh” &filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=value"  Response Body  {  "type": "NetworksPaginatedCollection",  "networks":[  {  "type":"NetworkDto",  "networkName": "network-1",  "networkId": "LXN2adf6263d75a",  "uuid": "a71660e7-4b78-4208-a87d-befed6bb04b5",  "version": "1",  "purpose": "MGMT\_NETWORK",  "vlanID": "303",  "otherInfo": "mydomain-1"  "eTag":"eTag#1",  "uri":"/rest/networks/a71660e7-4b78-4208-a87d-befed6bb04b5"  },  {  "type":"NetworkDto",  "networkName": "network-2",  "networkId ": "LXN2adf6263d75b",  "uuid": b71660e7-2b78-4208-a87d-befed6bb04b5  "version": "1",  "purpose": "VM\_NETWORK",  "vlanID": "304",  "otherInfo": "mydomain-1"  "eTag":"eTag#0",  "uri":"/rest/networks/b71660e7-2b78-4208-a87d-befed6bb04b5"  },  {  "type":"NetworkDto",  "networkName": "network-3",  "networkId": "LXN2adf6263d75c",  "uuid": "a71660e7-4b78-4208-a87d-befed6bb04b7",  "version": "1",  "purpose": "MGMT\_NETWORK",  "vlanID": "305",  "otherInfo": "mydomain-1,mydomain-2"  "eTag":"eTag#1",  "uri":"/rest/networks/a71660e7-4b78-4208-a87d-befed6bb04b7"  }  ]  } |

## *Associate multiple VC networks with purpose– PUT*

|  |  |
| --- | --- |
| URI | https://<appliance>:<port>/rest/networks?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=value" |
| Method | PUT |
| Parameter |  |
| Request Header | Content-Type, Accept (application/json) |
| Request Body | NetworkDto[] |
| Response | NetworkDto[] |
| Response Code | 200 |
| Examples | https://<appliance>:<port>/rest/networks?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=value"  Request Body  [  {  "type":"NetworkDto",  "networkName": "network-1",  "networkId": "LXN2adf6263d75a",  "uuid": "a71660e7-4b78-4208-a87d-befed6bb04b5",  "version": "0",  "purpose": "MGMT\_NETWORK",  "vlanID": "303",  "otherInfo": "mydomain-1",  "uri":"/rest/networks/a71660e7-4b78-4208-a87d-befed6bb04b5"  },  {  "type":"NetworkDto",  "networkName": "network-2",  "networkId": "LXN2adf6253d75a",  "uuid": "a71660e7-4b78-4208-a87d-befdf6bb04b5",  "version": "0",  "purpose": "VMOTION",  "vlanID": "300",  "otherInfo": "mydomain-1",  "uri":"/rest/networks/a71660e7-4b78-4208-a87d-befdf6bb04b5"  }  ]  Response Body  [  {  "type":"NetworkDto",  "networkName": "network-1",  "networkId": "LXN2adf6263d75a",  "uuid": "a71660e7-4b78-4208-a87d-befed6bb04b5",  "version": "0",  "purpose": "MGMT\_NETWORK",  "vlanID": "303",  "otherInfo": "mydomain-1",  "uri":"/rest/networks/a71660e7-4b78-4208-a87d-befed6bb04b5"  },  {  "type":"NetworkDto",  "networkName": "network-2",  "networkId": "LXN2adf6253d75a",  "uuid": "a71660e7-4b78-4208-a87d-befdf6bb04b5",  "version": "0",  "purpose": "VMOTION",  "vlanID": "300",  "otherInfo": "mydomain-1",  "uri":"/rest/networks/a71660e7-4b78-4208-a87d-befdf6bb04b5"  }  ] |

## *Associate single VC network with a purpose– PUT*

|  |  |
| --- | --- |
| URI | https://<appliance>:<port>/rest/networks/<uuid>?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=value" |
| Method | PUT |
| Parameter |  |
| Request Header | Content-Type, Accept (application/json) |
| Request Body | NetworkDto |
| Response | NetworkDto |
| Response Code | 200 |
| Examples | https://<appliance>:<port>/rest/networks/a71660e7-4b78-4208-a87d-befed6bb04b5?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=value"  Request Body  {  "type":"NetworkDto",  "networkName": "network-1",  "networkId": "LXN2adf6263d75a",  "uuid": "a71660e7-4b78-4208-a87d-befed6bb04b5",  "version": "1",  "purpose": "MGMT\_NETWORK",  "vlanID": "303",  "otherInfo": "mydomain-1",  "uri":"/rest/networks/a71660e7-4b78-4208-a87d-befed6bb04b5"  }  Response Body  {  "type":"NetworkDto",  "networkName": "network-1",  "networkId": "LXN2adf6263d75a",  "uuid": "a71660e7-4b78-4208-a87d-befed6bb04b5",  "version": "1",  "purpose": "MGMT\_NETWORK",  "vlanID": "303",  "otherInfo": "mydomain-1",  "eTag":"eTag#1",  "uri":"/rest/networks/a71660e7-4b78-4208-a87d-befed6bb04b5"  } |

## *Get alias for networks – GET*

|  |  |
| --- | --- |
| URI | https://<appliance>:<port>/rest/networks/alias?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=value" |
| Method | GET |
| Parameter |  |
| Request Header | Content-Type, Accept (application/json) |
| Request Body |  |
| Response | NetworkDto[] |
| Response Code | 200 |
| Examples | https://<appliance>:<port>/rest/network/alias?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=value"  Response Body  [{  "type":"NetworkDto",  "networkName": "network-1",  "networkId": "LXN2adf6263d75a",  "uuid": "a71660e7-4b78-4208-a87d-befed6bb04b5",  "version": "1",  "aliasName": "BLUE",  "purpose": "MGMT\_NETWORK",  "vlanID": "303",  "otherInfo": "mydomain-1",  "eTag":"eTag#1",  "uri":"/rest/networks/alias/a71660e7-4b78-4208-a87d-befed6bb04b5"  },  {  "type":"NetworkDto",  "networkName": "network-1",  "networkId": "LXN2adf6263d75a",  "uuid": "a71660e7-4b78-4208-a87d-befed6bb04b5",  "version": "1",  "aliasName": "RED",  "purpose": "GENERAL",  "vlanID": "304",  "otherInfo": "16.143.123.23",  "uri":"/rest/networks/alias/a71660e7-4b78-4208-a87d-befed6bb04b5"  }  ] |

## *Set alias for networks – PUT*

|  |  |
| --- | --- |
| URI | https://<appliance>:<port>/rest/networks/alias?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=value" |
| Method | PUT |
| Parameter |  |
| Request Header | Content-Type, Accept (application/json) |
| Request Body | NetworkDto[] |
| Response | NetworkDto[] |
| Response Code | 200 |
| Examples | https://<appliance>:<port>/rest/network/alias?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=vmmuuid1"  Request Body  [  {  "type":"NetworkDto",  "networkName": "network-1",  "aliasName": "BLUE",  },  {  "type":"NetworkDto",  "networkName": "network-2",  "aliasName": "RED",  }  ]  Response Body  [{  "type":"NetworkDto",  "networkName": "network-1",  "networkId": "LXN2adf6263d75a",  "uuid": "a71660e7-4b78-4208-a87d-befed6bb04b5",  "version": "1",  "aliasName": "BLUE",  "vlanID": "303",  "otherInfo": "mydomain-1",  "eTag":"eTag#1",  "uri":"/rest/networks/alias/a71660e7-4b78-4208-a87d-befed6bb04b5"  },  {  "type":"NetworkDto",  "networkName": "network-2",  "networkId": "a71660e7-4b78-4208-a87d-befed6bb04b5",  "uuid": "a71660e7-4b78-4208-a87d-befed6bb04b5",  "version": "1",  "aliasName": "RED",  "vlanID": "304",  "otherInfo": "16.143.12.12",  "uri":"/rest/networks/alias/a71660e7-4b78-4208-a87d-befed6bb04b5"  }  ] |

## Host Config Controller

The vmhosts resource provides REST API for host configuration.



## *Fix multiple Host networks – PUT*

|  |  |
| --- | --- |
| URI | https://<appliance>:<port>/rest/vmhosts?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid= vmmuuid1” |
| Method | PUT |
| Parameter |  |
| Request Header | Content-Type, Accept (application/json) |
| Request Body |  |
| Response | TaskResource |
| Response Code | 200 |
| Examples | [http://localhost:7443/rest/vmhosts?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=vmmuuid1](http://localhost:7443/rest/vmhosts?filter=)”  Request Body  [  {  "hostMoid": " hostMoid1",  "hypervisorMgrUuid": "vmmuuid1"  },  {  "hostMoid": " hostMoid2",  "hypervisorMgrUuid": "vmmuuid1"  }  ]  Response Body  [  {  "type": "TaskResource",  "name": null,  "owner": null,  "taskErrors": [],  "userInitiated": false,  "taskStatus": null,  "associatedTaskUri": null,  "parentTaskUri": null,  "progressUpdates": [],  "associatedResourceUri": vmmuuid1,hostMoid1,  "totalSteps": 0,  "completedSteps": 0,  "taskOutput": [],  "taskState": "",  "uri": "a96223c7-6faf-48e9-99fe-e99cf8379800",  "category": null,  "eTag": null,  "created": null,  "modified": null  },  {  "type": "TaskResource",  "name": null,  "owner": null,  "taskErrors": [],  "userInitiated": false,  "taskStatus": null,  "associatedTaskUri": null,  "parentTaskUri": null,  "progressUpdates": [],  "associatedResourceUri": vmmuuid1,hostMoid2,  "totalSteps": 0,  "completedSteps": 0,  "taskOutput": [],  "taskState": "",  "uri": "/rest/jobs/a96223c7-6faf-48e9-99fe-e99cf8379801",  "category": null,  "eTag": null,  "created": null,  "modified": null  }  ] |

Note: The hostMoid is used along with the VMM uuid as the hostMoid is not unique across VMMs

## *Fix single Host networks – PUT*

|  |  |
| --- | --- |
| URI | https://<appliance>:<port>/rest/vmhosts/<hostMoid>?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid= vmmuuid1” |
| Method | PUT |
| Parameter |  |
| Request Header | Content-Type, Accept (application/json) |
| Request Body |  |
| Response | TaskResource |
| Response Code | 200 |
| Examples | [http://localhost:7443/rest/vmhosts/hostMoid1?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=vmmuuid1](http://localhost:7443/rest/vmhosts/hostMoid1?filter=)”  Request Body  {  "hostMoid": "hostMoid1",  "hypervisorMgrUuid": "vmmuuid1"  }  Response Body  {  "type": "TaskResource",  "name": null,  "owner": null,  "taskErrors": [],  "userInitiated": false,  "taskStatus": null,  "associatedTaskUri": null,  "parentTaskUri": null,  "progressUpdates": [],  "associatedResourceUri": ”vmmuuid1,hostMoid1”,  "totalSteps": 0,  "completedSteps": 0,  "taskOutput": [],  "taskState": "",  "uri": "/rest/jobs/a96223c7-6faf-48e9-99fe-e99cf8379800",  "category": null,  "eTag": null,  "created": null,  "modified": null  } |

## *Host-Config – GET – Host consistency summary view*

Host’s vcenter profile consistency against its vc profile.

|  |  |
| --- | --- |
| URI | https://<appliance>:<port>/rest/vmhosts/<hostMoId>/networkstatus? filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&&filter=”vmmUuid=vmmuuid1”&view=summary |
| Method | GET |
| Parameter |  |
| Request Header | Content-Type, Accept (application/json) |
| Request Body |  |
| Response | HostNetworkStatusDto |
| Response Code | 200 |
| Examples | http://localhost:7443/rest/vmhosts/host-29/networkstatus ?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=vmmuuid1”&view=summary  Response Body  {  "type":"HostNetworkStatusDto",  "hostNetworkStatus":"MISMATCH",  "description":"Host network configuration does not match with server profile"  } |

## *Host-Config – GET – Host consistency detailed view*

|  |  |
| --- | --- |
| URL | [https://localhost:7443/rest/vmhosts/<hostMoId>/ networkstatus ?filter=”vmmUuid=D921C9CA-925B-4A7E-A2D9-732C905E252C](https://localhost:7443/rest/vmhosts/%3chostMoId%3e/%20networkstatus%20?filter=) ”&filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&view=detail |
| Method | GET |
| Parameter |  |
| Request Header | Content-Type, Accept (application/json) |
| Request Body |  |
| Response | HostNetworkStatusDto |
| Response Code | 200 |
| Examples | [https://localhost:7443/rest/vmhosts/host-29/ networkstatus ?filter=”vmmUuid=D921C9CA-925B-4A7E-A2D9-732C905E252C](https://localhost:7443/rest/vmhosts/host-29/%20networkstatus%20?filter=) ”&filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&view=detail  Response Body    {  "type":"HostNetworkStatusDto",  "hostNetworkStatus":"MISMATCH",  "description":"Host network configuration does not match with server profile",  "refHostMoid":"host-123",  "refHostUuid":"35313132-3645-5335-4830-33385637524d",  "refHostName":"name",  "serverProfile":{  "connections":[  {  "uplink":"LOM:1-b",  "networks":[  {  "vLanId":0,  "name":"302",  "action":"NONE"  }  ]  },  {  "uplink":"LOM:1-a",  "networks":[  {  "vLanId":0,  "name":"corp\_network",  "action":"NONE"  }  ]  },  {  "uplink":"LOM:2-a",  "networks":[  {  "vLanId":0,  "name":"corp\_network",  "action":"NONE"  }  ]  },  {  "uplink":"LOM:2-b",  "networks":[  {  "vLanId":0,  "name":"304",  "action":"NONE"  },  {  "vLanId":305,  "name":"305",  "action":"NONE"  }  ]  }  ],  "name":"Profile\_bay10",  "hostProfileNetworkStatus":"OK"  },  "refHostProfileName":"Profile\_bay10",  "hostConfiguration":{  "hostConfigNetworkStatus":"MISMATCH",  "description":"Host network configuration does not match with server profile",  "hostConfigDetailedView":{  "vSwitches":[  {  "portGroups":[  {  "vLanId":0,  "name":"302",  "type":"VM\_NETWORK",  "action":"MODIFY"  },  {  "vLanId":0,  "name":"VM Network",  "type":null,  "action":"DELETE"  }  ],  "uplinks":[  {  "name":"vmnic2",  "action":"NONE"  }  ],  "action":"MODIFY",  "name":"VSwitch-1"  },  {  "portGroups":[  {  "vLanId":0,  "name":"304",  "type":"VM\_NETWORK",  "action":"NONE"  },  {  "vLanId":305,  "name":"305",  "type":"FT\_LOGGING",  "action":"NONE"  }  ],  "uplinks":[  {  "name":"vmnic3",  "action":"NONE"  }  ],  "action":"NONE",  "name":"VSwitch-2"  }  ]  }  }  } |

## Job Controller

The jobs resource provides REST API to get the status of any given job that is in progress by vEdge Manager. The supported status values are:

* New
* Running
* Error
* Completed

## *Get Job Status – GET*

|  |  |
| --- | --- |
| URI | https://<appliance>:<port>/rest/jobs/<uuid>?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=value" |
| Method | GET |
| Parameter |  |
| Request Header | Content-Type, Accept (application/json) |
| Request Body |  |
| Response | TaskResource |
| Response Code | 200 |
| Examples | https://<appliance>:<port>/rest/jobs/ffe247ea-0f7f-405a-bea7-4cf89794a9b6?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=value"  Response Body  {  "type": "TaskResource",  "taskState": "Completed",  "taskErrors": [],  "userInitiated": false,  "taskStatus": null,  "associatedTaskUri": null,  "parentTaskUri": null,  "progressUpdates": [],  "associatedResourceUri": null,  "totalSteps": 0,  "completedSteps": 0,  "taskOutput": [],  "name": null,  "owner": null,  "uri": "ffe247ea-0f7f-405a-bea7-4cf89794a9b6",  "category": null,  "eTag": null,  "created": null,  "modified": null  } |

## Cluster Controller

The cluster resource provides REST API to perform CRUD operations. There are APIs to get the summary view of the hosts for a given cluster and get a detailed view of any host on its consistency information.

## *Get Cluster Consistency Info – GET: Summary View*

|  |  |
| --- | --- |
| URI | https://<appliance>:<port>/rest/clusters/<clusterMoId>/networkstatus ?filter="vmmUuid=value"&filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&view=summary |
| Method | GET |
| Parameter | None |
| Request Header | Content-Type, Accept (application/json) |
| Request Body | None |
| Response | ClusterDTO |
| Response Code | 200 – OK |
| Examples | https://localhost:7443/rest/clusters/domain-c556/networkstatus ?filter="vmmUuid=D921C9CA-925B-4A7E-A2D9-732C905E252C"&filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&view=summary Response Body {  "type":"ClusterDto",  "clusterNetworkStatus":"MISMATCH",  "refHostMoid":"host-123",  "refHostName":"name",  "refHostUuid":"35313132-3645-5335-4830-33385637524d",  "clusterMembers":[  {  "hostName":"name",  "hostMoid":"host-123",  "hostNetworkStatus":"MISMATCH"  }  ],  "vmmUuid":"E561C9CA-345B-4A7E-A2D0-612C685E456C",  "clusterUuid":"d191ae36-0990-2162-8f89-178cf170c0f8",  "clusterMoid":"domain-c4"  } |

## *Get Cluster Consistency Info – GET: Detailed View*

The API below shows the consistency information of a cluster.

|  |  |
| --- | --- |
| URI | https://<appliance>:<port>/rest/clusters/<clusterMoid>/networkstatus ?filter="vmmUuid=value"&filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&view=detail |
| Method | GET |
| Parameter | None |
| Request Header | Content-Type, Accept (application/json) |
| Request Body | None |
| Response | ClusterDto |
| Response Code | 200 – OK |
| Examples | https://localhost:7443/rest/clusters/domain-c566/networkstatus ?filter="vmmUuid=D921C9CA-925B-4A7E-A2D9-732C905E252C"&filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&view=detail Response Body {  "type":"ClusterDto",  "clusterNetworkStatus":"MISMATCH",  "description":"Host server profile does not match with the reference host",  "refHostMoid":"host-123",  "refHostName":"name",  "refHostUuid":"35313132-3645-5335-4830-33385637524d",  "clusterMembers":[  {  "hostName":"name",  "hostMoid":"host-123",  "hostProfileNetworkStatus":"OK",  "hostConfigNetworkStatus":"MISMATCH"  }  ],  "vmmUuid":"E561C9CA-345B-4A7E-A2D0-612C685E456C",  "clusterUuid":"d191ae36-0990-2162-8f89-178cf170c0f8",  "clusterMoid":"domain-c4"  } |

## *Update Reference Host – PUT*

|  |  |
| --- | --- |
| URI | https://<appliance>:<port>/rest/clusters/refhost?filter="vmmUuid=D921C9CA-925B-4A7E-A2D9-732C905E252C"&filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211” |
| Method | PUT |
| Parameter | None |
| Request Header | Content-Type, Accept (application/json) |
| Request Body | ClusterDto |
| Response | ClusterDto |
| Response Code | 202 |
| Examples | [https://localhost:7444/rest/clusters/refhost?filter="vmmUuid=D921C9CA-925B-4A7E-A2D9-732C905E252C"](https://localhost:7444/rest/clusters/refhost?filter=%22vmmUuid=D921C9CA-925B-4A7E-A2D9-732C905E252C%22)&filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211” Request Body {  "type":"ClusterDto",  "refHostMoid":"host-123",  "clusterMoid":"domain-c4" (Optional)  } Response Body {  "type":"ClusterDto",  "refHostMoid":"host-123",  "refHostUuid":"35313132-3645-5335-4830-33385637524d",  "vmmUuid":"E561C9CA-345B-4A7E-A2D0-612C685E456C",  "clusterUuid":"d191ae36-0990-2162-8f89-178cf170c0f8",  "clusterMoid":"domain-c4"  } |

Note: clusterMoid in the request is optional. If specified it will be verified against actual cluster Moid of the reference host and will result in failure if ids do not match

## *Cluster update – PUT*

|  |  |
| --- | --- |
| URI | https://<appliance>:<port>/rest/clusters/<clusterMoid>?filter="vmmUuid=D921C9CA-925B-4A7E-A2D9-732C905E252C"&filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211” |
| Method | PUT |
| Parameter | None |
| Request Header | Content-Type, Accept (application/json) |
| Request Body |  |
| Response | TaskResource |
| Response Code | 202 |
| Examples | [https://localhost:7444/rest/clusters/domain-c26?filter="vmmUuid=D921C9CA-925B-4A7E-A2D9-732C905E252C"](https://localhost:7444/rest/clusters/domain-c26?filter=%22vmmUuid=D921C9CA-925B-4A7E-A2D9-732C905E252C%22)&filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”  Request Body  [  {  "hostMoid": "hostMoid1",  },  {  "hostMoid": "hostMoid2",  }  ]  Response Body  {  "type": "TaskResource",  "name": null,  "owner": null,  "taskErrors": [],  "userInitiated": false,  "taskStatus": null,  "associatedTaskUri": null,  "parentTaskUri": null,  "progressUpdates": [],  "associatedResourceUri": ”D921C9CA-925B-4A7E-A2D9-732C905E252C,domain-c516”,  "totalSteps": 0,  "completedSteps": 0,  "taskOutput": [],  "taskState": "",  "uri": "/rest/jobs/a96223c7-6faf-48e9-99fe-e99cf8379800",  "category": null,  "eTag": null,  "created": null,  "modified": null  } |

NOTE: Empty request body updates all hosts in a cluster

## *Grow cluster – PUT*

|  |  |
| --- | --- |
| URI | https://<appliance>:<port>/rest/clusters/<clusterMoid>/hosts?filter=”sessionId=value”&filter=”vmmUuid=value" |
| Method | PUT |
| Parameter |  |
| Request Header | Content-Type, Accept (application/json) |
| Request Body |  |
| Response | TaskResource |
| Response Code | 202 |
| Examples | <https://localhost:7444/rest/clusters/domain-c26>/hosts?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter="vmmUuid=D921C9CA-925B-4A7E-A2D9-732C905E252C"  Request Body  {      "referenceProfileUri": "asddas",      "deploymentType": "ICSP",      "hosts": [          {              "serverHardwareUri": "shu1",              "dhcp": true,              "buildPlan": "bp",              "hostName": "h51"          },          {              "serverHardwareUri": "shu2",              "dhcp": false,              "buildPlan": "bp",              "hostName": "h52",              "ipAddress": "5.1.1.1",              "netMask": "5.1.1.2",              "gateway": "5.1.1.3"          }      ]  }  Response Body  {    "type": "TaskResource",    "associatedResourceUri": "272D458D-798A-4010-AA0D-6D55F41D2C11,domain-c1541",    "taskState": null,    "associatedTaskUri": null,    "completedSteps": 0,    "computedPercentComplete": 0,    "expectedDuration": 0,    "parentTaskUri": null,    "progressUpdates": [],    "taskErrors": [],    "taskOutput": [],    "taskStatus": null,    "totalSteps": 0,    "userInitiated": false,    "name": null,    "owner": null,    "percentComplete": 0,    "uri": "/rest/jobs/cbd852b6-29c9-48b6-95b0-7369ac66565c",    "category": null,    "eTag": null,    "created": null,    "modified": null  } |

## Settings Controller

This controller gives information about given settings name and helps to update default settings values.

## *Getting Switch Type Enum – GET*

|  |  |
| --- | --- |
| URI | https://<appliance>:<port>/rest/Settings/DefaultSwitchType?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=value" |
| Method | GET |
| Parameter |  |
| Request Header | Content-Type, Accept (application/json) |
| Request Body | SettingsDto |
| Response | SettingsDto |
| Response Code | 200 |
| Examples | https://<appliance>:<port>/rest/Settings/ DefaultSwitchType?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=value"  Response Body  {  "type":" SettingsDto",  "settingName": "SwitchType",  "supportedValues": {"STANDARD","VMWARE\_VDS"},  "selectedValue": "VMWARE\_VDS"  } |

## *Setting Switch Type – PUT*

|  |  |
| --- | --- |
| URI | https://<appliance>:<port>/rest/Settings/DefaultSwitchType?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=value" |
| Method | PUT |
| Parameter |  |
| Request Header | Content-Type, Accept (application/json) |
| Request Body | SettingsDto |
| Response | SettingsDto |
| Response Code | 200 |
| Examples | https://<appliance>:<port>/rest/Settings/DefaultSwitchType?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=value"  Request Body  {  "type":" SettingsDto",  "settingName": "SwitchType",  "selectedValue": "VMWARE\_VDS"  } |

## *Getting List of available DVS spec versions – GET*

|  |  |
| --- | --- |
| URI | https://<appliance>:<port>/rest/Settings/DvsSpecVersion?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=value" |
| Method | GET |
| Parameter |  |
| Request Header | Content-Type, Accept (application/json) |
| Request Body | SettingsDto |
| Response | SettingsDto |
| Response Code | 200 |
| Examples | https://<appliance>:<port>/rest/Settings/DvsSpecVersion?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=value"  Response Body  {    "type": "SettingsDto",    "settingName": "DvsSpecVersion",    "supportedValues": [      "4.0",      "4.1.0",      "5.0.0",      "5.1.0"    ],    "selectedValue": "5.1.0"  } |

## *Setting DVS Spec Version – PUT*

|  |  |
| --- | --- |
| URI | https://<appliance>:<port>/rest/Settings/DvsSpecVersion?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=value" |
| Method | PUT |
| Parameter |  |
| Request Header | Content-Type, Accept (application/json) |
| Request Body | SettingsDto |
| Response | SettingsDto |
| Response Code | 200 |
| Examples | https://<appliance>:<port>/rest/Settings/DvsSpecVersion?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=value"  Request Body  {    "type": "SettingsDto",    "settingName": "DvsSpecVersion",    "selectedValue": "5.1.0"  } |

## *Getting Migrate Management Value– GET*

|  |  |
| --- | --- |
| URI | https://<appliance>:<port>/rest/Settings/MigrateManagement?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=value" |
| Method | GET |
| Parameter |  |
| Request Header | Content-Type, Accept (application/json) |
| Request Body | SettingsDto |
| Response | SettingsDto |
| Response Code | 200 |
| Examples | https://<appliance>:<port>/rest/Settings/MigrateManagement?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=value"  Response Body  {    "type": "SettingsDto",    "settingName": "MigrateManagement",    "supportedValues": [      "true",      "false"    ],    "selectedValue": "true"  } |

## *Setting Migrate Management value – PUT*

|  |  |
| --- | --- |
| URI | https://<appliance>:<port>/rest/Settings/MigrateManagement?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=value" |
| Method | PUT |
| Parameter |  |
| Request Header | Content-Type, Accept (application/json) |
| Request Body | SettingsDto |
| Response | SettingsDto |
| Response Code | 200 |
| Examples | https://<appliance>:<port>/rest/Settings/MigrateManagement?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=value"  Request Body  {    "type": "SettingsDto",   "settingName": "MigrateManagement",   "selectedValue": "true"  } |

## *Getting Network Purpose Enum – GET*

|  |  |
| --- | --- |
| URI | https://<appliance>:<port>/rest/Settings/NetworkPurpose?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=value" |
| Method | GET |
| Parameter |  |
| Request Header | Content-Type, Accept (application/json) |
| Request Body | SettingsDto |
| Response | SettingsDto |
| Response Code | 200 |
| Examples | https://<appliance>:<port>/rest/Settings/NetworkPurpose?filter=”sessionId=52022eac-a989-7b86-861b-544fc3126211”&filter=”vmmUuid=value"  Response Body  {  "type":" SettingsDto",  "settingName": "NetworkPurpose",  "supportedValues": { "VM\_NETWORK","VMOTION", "MGMT\_NETWORK","FT\_LOGGING" },  "selectedValue": null  } |