Dell EMC VxRailTM

API User Guide

4.5.x, 4.7.x, and 7.0.x

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Introduction

About this guide

This document describes the API for the VxRail, including VxRail software versions 4.5.x, 4.7.x, and 7.0.x.

This document incorporates and supercedes information from previous VxRail API guides, including the $VxRail\ 4.5\ API\ Guide$ and the $VxRail\ 4.5.2xx\ API\ Guide$.

Note that in VxRail software versions 4.7.300 and later, API documentation is included onboard the VxRail and can be accessed from your host. See VxRail onboard API documentation for more information.

Revision history

Revision Number	Date	Description	
20	November 4, 2021	Updated for VxRail Software 7.0.300.	
19	August 8, 2021	Updated for VxRail Software 7.0.240.	
18	July 13, 2021	Updated for VxRail Software 7.0.210.	
17	May 5, 2021	Updated for VxRail Software 7.0.200.	
16	February 10, 2021	Minor correction to POST /v1/system/initialize.	
15	January 28, 2021	Updated for VxRail Software 7.0.130.	
14	November 16, 2020	Minor correction to POST /v3/lcm/upgrade.	
13	October 30, 2020	Updated for VxRail Software 7.0.100.	
12	August 28, 2020	Updated for VxRail Software 7.0.010.	
11	May 28, 2020	Updated for VxRail Software 4.7.510 and updated publishing formats.	
10	April 28, 2020	Updated for VxRail Software 7.0.000.	
09	February 19, 2020	Updated descriptions for POST $/v1/system/validate-$ credential and POST $/v1/system/update-credential$ plus minor updates and corrections.	
08	December 17, 2019	Updated for VxRail Software 4.7.410.	
07	October 31, 2019	Added minor content updates and corrections.	
06	October 15, 2019	Updated document structure plus minor content updates and corrections.	
05	September 18, 2019	Updated for VxRail Software 4.7.300.	
04	July 31, 2019	Added upgrade note for POST /lcm/upgrade.	
03	June 27, 2019	Updated for VxRail software 4.7.200 plus minor updates and corrections.	
02	January 22, 2019	Updated for VxRail software 4.7.100 and minor corrections.	
01	December 14, 2018	Initial release.	

VxRail API documentation on the Dell Technologies Developer Portal

The Dell Technologies Developer Portal is a single location for sharing and disseminating developer-focused documentation in an easily consumable and consistent format. Using the Developer Portal, developers can discover, explore, and test Dell APIs needed to integrate with other solutions and create custom automations. In addition to consolidating consistent content within a single portal, Dell enterprise products enable the 'build once/re-use many' mindset for faster implementation and easier automation of Dell's portfolio.

The API documentation for VxRail is available on the Developer Portal along with all available Dell APIs.

Currently, API document is published on the Developer Portal as HTML and on the Support site as PDF. Update any bookmarks you may have to point to Developer Portal.

VxRail documentation

The following tables list available documents about VxRail Manager and VxRail models.

For the most up-to-date list of VxRail documentation, see the VxRail Documentation Quick Reference List.

Getting Started

VxRail API base URL

The base URL for the VxRail API is: https://<VxM IP>/rest/vxm/.

<VxM_IP> is the network IP address or domain name of the VxRail Manager virtual machine that manages a specific VxRail cluster. The base URL is for a single VxRail cluster only.

Authentication

The VxRail API uses the VMware vCenter or Platform Services Controller (PSC) single sign on (SSO) for authentication.

Use your vCenter username and password to log into the VxRail API. The API passes the credentials to the vCenter/PSC for authentication.

HTTP Basic authentication is the authorization method that is configured for the VxRail REST API.

VxRail Manager and the VxRail API do not provide management of vCenter user accounts. Manage your credentials using vSphere.

VxRail onboard API documentation

VxRail RESTful API documentation is available onboard your VxRail Manager virtual machine in software versions 4.7.300 and later.

To access onboard API documentation, enter the following address in a web browser on your host:

https://<VxM IP>/rest/vxm/api-doc.html

<VxM IP> is the network IP address or domain name of the VxRail Manager virtual machine.

VxRail initial installation and configuration

These VxRail API support the initial configuration and deployment of a VxRail cluster including initial installation, status checks, and network configuration.

POST /v1/network/vxrail-manager

Configures VxRail Manager with a static IP address for remote access.

URL

```
192.168.10.200/rest/vxm/v1/network/vxrail-manager
```

This endpoint uses the default static IP address (192.168.10.200) and can only be run before the initial configuration and deployment.

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	lot supported	
VxRail Software 7.0.x	Supported in 7.0.010 and later	

Request

Authorization Not required

Body parameter StaticIPSettingsSpec: (Required) The parameters that are required for setting the VxRail Manager static IP address.

Parameter	Туре	Description
ip	string	(Required) The static IP address to be set for VxRail Manager
gateway	string	(Required) The network gateway address to be used for VxRail Manager
netmask	string	(Required) The subnet mask to be used for VxRail Manager
vlan_id	string	(Required) The VLAN ID to be used for VxRail Manager

Example:

```
{
"ip": "192.168.102.254",
```

```
"gateway": "192.168.102.4",
"netmask": "255.255.255.0",
"vlan_id": 200
}
```

Response

202 The request has been accepted for processing, but the processing has not been completed.

400 Invalid request parameters.

The request for operation status failed with errors.

POST /v1/system/initialize

Configures and deploys a new VxRail cluster.

URL

<VxRail IP address>/rest/vxm/v1/system/initialize

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.010 and later	

Request

Authorization Not required

Query parameter dryrun: (Optional) Performs a validation of the initial input configuration. Set true to cause a dry run

and false to configure and deploy a new cluster. The default value is false.

Body parameter SystemInitSpec: (Required) The parameters required for the initial configuration and deployment of a

new cluster.

Parameter	Туре	Description	
version	string	VxRail Manager version to be deployed	
global	object	(Required) Global configuration settings for the VxRail cluster See the global object table below for object properties.	
hosts	[object]	(Required) Configuration settings for each of the VxRail hosts See the hosts object table below for object properties.	
vcenter	object	(Required) Configuration settings for the vCenter server See the vcenter object table below for object properties.	

Parameter	Туре	Description	
witness_node	object	Configuration settings for a witness node. Only available when cluster_type is set to VSAN2NODE.	
		See the witness_node object table below for object properties.	
vxrail_manager	object	(Required) Configuration setting for VxRail Manager	
		See the vxrail_manager object table below for object properties.	
network	object	 (Required) Configuration settings for the network For VxRail software 7.0.101 and earlier versions, see the network (version 2) object table below for object properties. For VxRail software 7.0.130 and later versions, see the network (version 3) object table. 	
storage	object	(Optional) The current storage configuration (i) NOTE: The storage object is supported in VxRail software 7.0.210 and later.	
		The disk_group_type and primary_storage_type properties are mutually exclusive. Use disk_group_type for vSAN clusters only. Use primary_storage_type for dynamic node clusters only.	
		The storage object contains:	
		 disk_group_type (string): The disk group configuration for the appliance. The property is used only for vSAN clusters. For the VxRail E660/F, P670F, and V670F appliances, disk_group_type uses the default configuration unless this property is specified. For all other appliance models, disk_group_type is not supported. 	
		The first two digits in disk_group_type represent the number of disk slots in the appliance. The second two digits represent the disk group configuration. For example, 1001 represents an E660/F with 10 disk slots using the disk group 1 (DG1) configuration (1 cache disk and up to 7 capacity disks).	
		Supported values include: VxRail E660/F appliance: 1001 (default), 1002 VxRail P670F appliance: 2804 (default) VxRail V670F appliance: 2404 (default), 2403	
		primary_storage_type (string): The primary storage configuration for the appliance. This property is used only for dynamic node clusters. NOTE: The primary_storage_type property is supported in VxRail software 7.0.240 and later.	
		Supported values include VMFS_ON_FC and EXTERNAL.	

Example:

```
{
  "version": "7.0.240",
  "global": {
```

```
"ntp_servers": [
     "10.0.0.1",
"10.0.0.2"
  "dns_servers": [
"172.23.1.167"
  "syslog_servers": [
"172.23.1.189"
  "top_level_domain": "vvlarge.local",
  "cluster_type": "STANDARD",
"cluster_management_netmask": "255.255.0.0",
  "cluster_management_gateway": "172.23.1.167",
  "cluster_vsan_netmask": "255.255.0.0",
"cluster_vmotion_netmask": "255.255.0.0"
"hosts": [
     "host_psnt": "V0817010000000",
"hostname": "vcluster817-esx01",
      "accounts": {
         "root": {
           "username": "root",
"password": "password"
        "management": {
   "username": "mystic",
   "password": "password"
      "network": [
           "type": "MANAGEMENT",
           "ip": "172.23.26.101"
         {
           "type": "VSAN",
"ip": "172.23.26.136"
           "type": "VMOTION",
"ip": "172.23.26.211"
     "storage": {
         "slot_claims": [
              "usage": "non-vSAN",
"values": [
                     "slots": "3,6,7-8"
              ]
           }
        ]
      "geo_location": {
    "rack-name": "",
        "position": 1
  },
     "host_psnt": "V0817020000000",
"hostname": "vcluster817-esx02",
      "accounts": {
        "root": {
           "username": "root",
"password": "password"
         "management": {
```

```
"username": "mystic",
           "password": "password"
        }
     "network": [
        {
           "type": "MANAGEMENT",
           "ip": "172.23.26.102"
           "type": "VSAN",
"ip": "172.23.26.137"
          "type": "vmotion",
"ip": "172.23.26.212"
     "geo_location": {
    "rack_name": "",
        "position": 2
  },
     "host_psnt": "V0817030000000",
"hostname": "vcluster817-esx03",
     "accounts": {
        "root": {
          "username": "root",
"password": "password"
        "management": {
    "username": "mystic",
    "password": "password"
        }
     "network": [
       "type": "MANAGEMENT",
"ip": "172.23.26.103"
          "type": "VSAN",
           "ip": "172.23.26.138"
          "type": "VMOTION",
          "ip": "172.23.26.213"
     "geo_location": {
    "rack_name": "",
        "position": 3
  }
"customer_supplied": true,
"customer_supplied_vc_name": "vcsa.vvlarge.local",
"datacenter_name": "VxRail-Datacenter",
  "cluster_name": "VxRail-Cluster",
  "accounts": {
      "administrator": {
        "username": "administrator@vsphere.local"
     "management": {
       "username": ""
  "auto_accept_vc_cert": true
```

```
"vxrail_manager": {
     "name": "vcluster817-vxm",
"ip": "172.23.26.200",
     "accounts": {
         "root": {
          "username": "root"
        "service": {
    "username": "mystic"
     }
   "network": {
     "nic profile": "FOUR HIGH SPEED",
     "systemvm_portgroup_binding_type": "STATIC_BINDING",
"management_portgroup_binding_type": "STATIC_BINDING",
     "vds": {
        "mtu": 9000,
"portgroups": [
           {
              "type": "VSAN",
              "vlan_id": 0,
"vmk_mtu": 9000
           },
           "type": "MANAGEMENT",
   "vlan_id": 0,
   "vmk_mtu": 1500
              "type": "VMOTION",
"vlan_id": 0,
"vmk_mtu": 9000
              "type": "VXRAILDISCOVERY",
              "vlan_id": 3939,
              "vmk_mtu": 1500
        ]
    }
  },
"storage": {
    rou

     "disk_group_type": "2404"
}
```

global object properties:

Property	Туре	Description
ntp_servers	[string]	Array of IP addresses for the NTP servers
is_internal_dns	boolean	Whether the DNS server is internal. Supported values are true and false.
dns_servers	[string]	Array of IP addresses for the DNS servers
syslog_servers	[string]	Array of IP addresses for the Syslog servers
cluster_type	string	Type of cluster. Supported values are STANDARD (3 or more hosts), VSAN2NODE (2 hosts only), and COMPUTE i NOTE: COMPUTE is supported in VxRail software 7.0.130 and later.
cluster_management_netmask	string	Subnet mask for cluster management nodes
cluster_management_gateway	string	Gateway address for cluster management nodes
cluster_vsan_netmask	string	Subnet mask for the vSAN cluster

Property	Туре	Description
cluster_vmotion_netmask	string	Subnet mask for the vSphere vMotion cluster
cluster_witness_netmask	string	Subnet mask for the witness nodes
cluster_witness_gateway	string	Gateway address for the witness nodes
top_level_domain	string	Top-level domain name

[hosts] object properties:

Property	Туре	Description
host_psnt	string	PSNT of the host i NOTE: The host_psnt and customer_supplied properties are mutually exclusive.
hostname	string	Hostname of the host
customer_supplied	object	Host information that is user-specified. (i) NOTE: The customer_supplied property is supported in VxRail software 7.0.130 and later. The customer_supplied object contains: • management_ip (string): The user-specified
		 management IP address of the host current_root_password (string): The user-specified host root account password. The default ESXi host root password is set if this parameter is not provided
accounts	object	Credentials for the host accounts
		The accounts object contains:
		 root object: username (string) password (string) management object: username (string) password (string)
network	[object]	An array of network information for the host components The network object contains: type (string): The type of component. Supported values include MANAGEMENT, VSAN, WITNESS, and VMOTION. ip (string): The IP address of component
storage	object	Information about which disk slots are claimed as vSAN storage and which slots are non-vSAN storage. You must submit a request for product qualification (RPQ) to reserve slots for non-vSAN disks. (i) NOTE: The storage property is supported in VxRail software 7.0.130 and later. The storage object contains: • [slot_claims] (object):

Property	Туре	Description
		 usage (string): The type of usage the slot values are claimed as. Supported values are vSAN and non-vSAN. [values] (string): slots (string): A list of disk slots that are claimed as the type of usage defined in usage. Example values include 3, 6, 7-8
geo_location	object	Geographic location information for the host The geo_location object contains: rack_name (string): The name of the rack that houses the host position (integer): The position of the node in the rack

vcenter object properties:

Property	Туре	Description
customer_supplied	boolean	Whether the vCenter server is customer supplied (external) or VxRail integrated (internal). Supported values are true for customer supplied and false for integrated.
<pre>customer_supplied_vc _name</pre>	string	The FQDN of the vCenter server. This property is only provided if the vCenter server is customer supplied.
vxrail_supplied_vc_i p	string	The IP address of the VxRail integrated vCenter server. This property is only provided if the vCenter server is VxRail integrated.
vxrail_supplied_vc_n ame	string	The hostname of the VxRail integrated vCenter server. This property is only provided if the vCenter server is VxRail integrated.
datacenter_name	string	The name of the datacenter. This property is only provided if the vCenter server is customer supplied.
cluster_name	string	The name of the cluster. This property is only provided if the vCenter server is customer supplied.
auto_accept_vc_cert	boolean	Whether to automatically download the vCenter root certificate. This property is supported in VxRail 7.0.240 software and later.
		True means VxRail Manager will download the vCenter root certificate automatically. False means users should provide the vCenter root certificate manually.
accounts	object	Credentials for the vCenter accounts
		The accounts object contains:
		• root object:
		username (string)password (string)
		(i) NOTE: The root account for vCenter is only
		available in a customer supplied (external)
		vCenter. • administrator object:
		• username (string)

Property	Туре	Description
		password (string)management object:username (string)password (string)
sso_domain	object	Network and sign on information for the SSO domain. This property is only provided if the vCenter server is VxRail supplied.
		The sso_domain object contains:
		 server (string): The IP address of the SSO domain port (integer): The port of the SSO domain username (string) password (string) auto_accept_sso_vc_cert (boolean): Whether to automatically download the SSO vCenter root certificate. This property is supported in VxRail
		7.0.240 software and later. True means VxRail Manager will download the target SSO vCenter root certificate automatically. False means users should provide the target SSO vCenter root certificate manually.

 $\verb|witness_node| object| properties:$

Property	Туре	Description
management_ip	string	Management IP address for the witness node
witness_ip	string	Witness traffic IP address for the witness node
gateway	string	Gateway address for the witness node
netmask	string	Subnet mask for the witness node
username	string	Username for the witness node
password	string	Password for the witness node

vxrail_manager object properties:

Property	Туре	Description
name	string	Hostname for VxRail Manager
ip	string	IP address for VxRail Manager
accounts	object	Credentials for VxRail Manager
		The accounts object contains: • root object: • username (string) • password (string) • service object: • username (string) • password (string)

 ${\tt network} \ (version \ 3) \ object \ properties \ for \ VxRail \ software \ 7.0.130 \ and \ later \ versions:$

Property	Туре	Description
sfs	object	Information about SmartFabric Services. This property only applies to SmartFabric users.
		The sfs object contains:
		REST_USER_password (string): User password sfs_disabled (boolean): SmartFabric disable flag. Set sfs_disabled to true to indicate SmartFabric is not used. Set sfs_disabled to false to indicate SmartFabric Services are enabled.
		The default is false (enabled).
nic_profile	[string]	The NIC profile configuration.
		Supported values are FOUR_HIGH_SPEED, TWO_HIGH_SPEED, FOUR_LOW_SPEED, TWO_LOW_TWO_HIGH_SPEED,FOUR_EXTREME_SP EED, ADVANCED_VXRAIL_SUPPLIED_VDS, ADVANCED_CUSTOMER_SUPPLIED_VDS.
management_portgroup _binding_type	string	The type of port group binding for the management server.
		Supported values include STATIC_BINDING and EPHEMERAL.
systemvm_portgroup_b	string	The type of port group binding for the system VMs.
inding_type		Supported values include STATIC_BINDING and EPHEMERAL.
vds	[object]	Information about network vSwitches
		The vds object contains:
		name (string): Name of the defined vSphere Distributed Switch.
		name is only used when nic_profile is set to ADVANCED_CUSTOMER_SUPPLIED_VDS.
		mtu (integer): MTU of the defined vSphere Distributed Switch. This property is supported in VxRail 7.0.240 software and later.
		The MTU value must be in the [1500, 9000] range. This property is only supported for the following port group types: MANAGEMENT, DISCOVERY, VSAN, VMOTION, WITNESS.
		load_balance_policy (string): The load balance policy for port group. This property is supported in VxRail 7.0.240 software and later.
		This property supports the following load balance policies: FAILOVER_EXPLICIT, LOADBALANCE_SRCMAC, LOADBALANCE_SRCID, LOADBALANCE_LOADBASED.
		• [portgroups] object:
		o name (string): Name of the port group.
		name is only supplied when nic_profile is ADVANCED_CUSTOMER_SUPPLIED_VDS.

Property	Туре	Description
		o type (string): The type of port group
		Supported values are VSAN, VMOTION, MANAGEMENT, WITNESS, VXRAILSYSTEMVM, CUSTOMERVM, VXRAILDISCOVERY.
		 NOTE: The VXRAILDISCOVERY option is only supported when nic_profile is set to ADVANCED_VXRAIL_SUPPLIED_VDS or ADVANCED_CUSTOMER_SUPPLIED_VDS. vmk_mtu (integer): MTU of the VMkernel on selected traffic type. This property is supported in VxRail 7.0.240 software and later.
		The MTU value must be in the [1500, 9000] range. This property is only supported in V-VDS or Multi-VDS scenarios. This property is not supported for customer-supplied VDS or vSAN 2-Node clusters.
		 vlan_id (string): The VLAN ID of the port group. NOTE: Set the vlan_id for the port group type to 3939 when the nic_profile is ADVANCED_VXRAIL_SUPPLIED_VDS or ADVANCED_CUSTOMER_SUPPLIED_VDS and sfs_disabled is false.
		 failover_order object is only supplied when the nic_profile is ADVANCED_VXRAIL_SUPPLIED_VDS: [active] (string): A list of active uplinks [standby] (string): A list of standby uplinks
		 uplinks [string]: A list of uplinks. This property is only supplied when the nic_profile is ADVANCED_CUSTOMER_SUPPLIED_VDS and sfs_disabled is false.
		 lags [string]: A list of link aggregation groups (LAG).
		This property is only supplied when the nic_profile is ADVANCED_CUSTOMER_SUPPLIED_VDS when LAG is used on the port group.
		• [nic_mappings] object: (i) NOTE: This property is used when the nic_profile is set to ADVANCED_VXRAIL_SUPPLIED_VDS or ADVANCED_CUSTOMER_SUPPLIED_VDS.
		 [uplinks] object: name (string) physical_nic (string) [lags] object: name (string) [physical_nics] (string): A list of physical NICs

network (version 2) object properties for VxRail software 7.0.101 and earlier versions:

Property	Туре	Description
sfs	object	Information about SmartFabric Services
		The sfs object contains:
		REST_USER_password (string): User password sfs_disabled (boolean): SmartFabric disable flag.
		Set sfs_disabled to true to indicate SmartFabric is not used. Set sfs_disabled to false to indicate SmartFabric Services are enabled. The default is false (enabled). This property is supported for VxRail software 7.0.100 and later.
vds	object	Information about network vSwitches
		The vds object contains:
		nic_profile (string): Supported values include FOUR_HIGH_SPEED, TWO_HIGH_SPEED, FOUR_LOW_SPEED, TWO_LOW_TWO_HIGH_SPEED
		 systemvm_portgroup_binding_type (string): Supported values include STATIC_BINDING, DYNAMIC_BINDING, EPHEMERAL [portgroups] object:
		 type (string): The type of port group vlan_id (string): The VLAN ID of the port group
customer_supplied_vd	object	Information about customer supplied network vSwitches
S		The customer_supplied_vds object contains:
		 name (string): Name of the vSwitch [portgroups] object: type (string): The type of port group vlan_id (string): The VLAN ID of the port group [uplinks] (string): If an SFS environment is used, uplinks should be Mandatory in every portgroup. [nic_mappings] object: [uplinks] object: name (string) physical nic (string)

Response

The request has been accepted for processing, but the processing has not been completed. A request_id is returned.

To check the processing status, use GET /v1/system/initialize/status.

400 Invalid request parameters.

The request for operation status failed with errors.

GET /v1/system/initialize/status

Retrieves VxRail cluster configuration and deployment status information.

URL

<VxRail IP address>/rest/vxm/v1/system/initialize/status

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.010 and later	

Request

Authorization

Not required

Response

200

Successful operation.

Parameter	Туре	Description
id	string	The returned request_id from a running cluster configuration and deployment. See POST /v1/system/initialize.
owner	string	The owner of the request, which is typically the user who issued the original request
state	string	The current state of the execution
		Supported values include STARTED, FAILED, COMPLETED.
step	string	The current step being run
progress	integer	The progress of the current execution, ranging 0–100
start_time	integer	The start time of the current execution
end_time	integer	The end time of the current execution
extension	object	Application-specific status information
		See the extension object table below the example for a list of object properties.

Example:

```
{
  "id": "47a45dac-67b8-4932-8703-960c5df8e494",
  "state": "STARTED",
  "step": "VxM populate configuration data",
  "owner": "Day1BringUp",
  "progress": 0,
```

```
"start time": 1584679007,
 "end_time": 1584699007,
"extension": {
    "validation": {
      "cursory": {
    "errors": {
          "fields": [
              "path": "vcenter.accounts.administrator.password",
              "messages": "password too short"
          "generals": [
            {
              "title": "General Error",
              "messages": ["unknown error"]
           }
         ]
        "warnings": {
          "fields": [
              "path": "vcenter.accounts.administrator.password",
              "messages": "password too short"
           }
          "generals": [
            {
              "title": "General Error",
              "messages": ["unknown error"]
           }
         ]
       }
     "errors":
          "fields": [
              "path": "vcenter.accounts.administrator.password",
              "messages": "password too short"
          "generals": [
            {
              "title": "General Error",
              "messages": ["unknown error"]
         ]
        "fields": [
              "path": "vcenter.accounts.administrator.password",
              "messages": "password too short"
            }
          "generals": [
            {
              "title": "General Error",
              "messages": ["unknown error"]
           }
         ]
       }
     }
    "steps": [
        "id": "vxm_set_dns",
        "name": "VxM set DNS server",
        "path":
"sub_workflow1.sub_workflow2.vxm_config_dns.external.vxm_set_dns",
```

```
"state": "STARTED",
    "steps": [
         null
    ],
    "start_time": 0,
    "end_time": 0
}
```

extention object properties:

Property	Туре	Description
validation	object	Validation status for the initial cluster configuration referenced by id
		The validation object contains:
		• cursory object:
		o errors object:
		■ [fields] object:
		 path (string): Parameter path for the error result in the JSON file
		- [messages] (string): Error or warning messages
		■ [generals] object:
		- title (string): Title of the warning result
		- [messages] (string): Error or warning messages
		o warnings object:
		■ [fields] object:
		 path (string): Parameter path for the error result in the JSON file
		- [messages] (string): Error or warning messages
		■ [generals] object:
		- title (string): Title of the warning result
		- [messages] (string): Error or warning messages
		• thorough object:
		o errors object:
		■ [fields] object:
		 path (string): Parameter path for the error result in the JSON file
		- [messages] (string): Error or warning messages
		■ [generals] object:
		- title (string): Title of the warning result
		- [messages] (string): Error or warning messages
		<pre>o warnings object:</pre>
		• [fields] object:
		- path (string): Parameter path for the error result in the JSON file
		- [messages] (string): Error or warning messages
		■ [generals] object:
	ı	1

Property	Туре	Description
		title (string): Title of the warning result[messages] (string): Error or warning messages
steps	[object]	An array of status results for each configuration step
		The steps object contains: id (string): The identification string for the step name (string): The name of the step path (string): The full path for the step including parent steps state (string): The status state of the step. Supported values include STARTED, FAILED, COMPLETED [steps] (string): An array of any steps running in parallel start_time (string): The timestamp for the start of the step end_time (string): The timestamp for the end of the step

404 The request resource was not found.

500 Unexpected internal server error.

GET /v1/system/initialize/disk-slot-mappings

Retrieves disk slots and usage mappings from the initial configuration for a set of hosts.

URL

https://<VxRail IP address>/rest/vxm/v1/system/initialize/disk-slot-mappings

Version support

VxRail Software	Supported versions
VxRail Software 4.5.x	Not supported
VxRail Software 4.7.x	Not supported
VxRail Software 7.0.x	Supported in 7.0.130 and later

Request

Body parameters HostDiskSlotMappingRequest: (Required) Information needed to retrieve disk slot usage for a host.

Parameter	Туре	Description
host_serial_number	string	(Required) Serial number of the host. This property is mandatory if the customer_supplied property is not supplied.

Parameter	Туре	Description
diskgroup_type	string	The disk group configuration for the appliance. This property is supported in VxRail 7.0.240 software and later. • For the VxRail E660/F, P670F, and V670F appliances, disk_group_type uses the default configuration unless this property is specified. • For all other appliance models, disk_group_type is not supported.
		The first two digits in disk_group_type represent the number of disk slots in the appliance. The second two digits represent the disk group configuration. For example, 1001 represents an E660/F with 10 disk slots using the disk group 1 (DG1) configuration (1 cache disk and up to 7 capacity disks).
		Supported values include: VxRail E660/F appliance: 1001 (default), 1002 VxRail P670F appliance: 2804 (default) VxRail V670F appliance: 2404 (default), 2403
customer_supplied	object	(Required) Information about the management server. This property is mandatory if the host_serial_number property is not supplied.
		The customer_supplied object contains the following properties: • management_ip (string): (Required) Management IP address • current_root_password (string): (Required) Root password

Example:

Response

200

Successfully retrieved all slot mappings for hosts.

 $\label{thm:continuous} \parbox{$\tt IHostDiskSlotMappingsResponse]: An array of VxRail hosts and the associated disk usage mappings for each host} \\$

Parameter	Туре	Description
host		If host_serial_number is supplied in the request object, this property returns the host serial number; otherwise, the property returns the host ID address

Parameter	Туре	Description
all_slots	[object]	Information about slot positions for all disk drives
		The all_slots object contains the following properties: • bay_info object provides information about the bay slots and contains the following properties: • bay_id object provides information about the bay IDs and contains the following properties: • slots ([integer]): A list of all slot positions where a disk drive is installed
vsan_slots	[object]	A list of all slot positions where a disk drive is claimed for vSAN usage
		The vsan_slots object contains the following properties: • capacity ([object]): The capacity object contains information about slot drives claimed for capacity usage. • cache ([object]): The cache object contains information about slot drives claimed for cache usage. Both the capacity object and the cache object contain the following properties: • o bay_info_with_dg (object): The bay_info_with_dg object contains the following properties:
		 slots ([object]): Provides a list of all slot and disk groups and contains the following properties: slot (integer): Slot number diskgroup (integer): Disk group ID

Example:

207 Retrieved a partial list of slot mappings for hosts.

 $[{\tt HostDiskSlotMappingsResponse}]: An array of {\tt VxRail hosts} \ and \ the \ associated \ disk \ usage \ mappings for each host}$

Parameter	Туре	Description
host	string	If host_serial_number is supplied in the request object, this property returns the host serial number; otherwise, the property returns the host ID address
all_slots	[object]	Information about slot positions for all disk drives
		The all_slots object contains the following properties: • bay_info object provides information about the
		bay slots and contains the following properties: bay_id object provides information about the bay IDs and contains the following properties: slots ([integer]): A list of all slot positions where a disk drive is installed
vsan_slots	[object]	A list of all slot positions where a disk drive is claimed for vSAN usage
		The vsan_slots object contains the following properties:
		 capacity ([object]): The capacity object contains information about slot drives claimed for capacity usage.
		cache ([object]): The cache object contains information about slot drives claimed for cache usage.
		Both the capacity object and the cache object contain the following properties:
		 bay_info_with_dg (object): The bay_info_with_dg object contains the following properties: slots ([object]): Provides a list of all slot and disk groups and contains the following properties: slot (integer): Slot number diskgroup (integer): Disk group ID

400 Bad request.

500 Internal server error.

GET /v1/system/initialize/nodes

Retrieves nodes discovered during auto-discovery.

URL

<VxRail IP address>/rest/vxm/v1/system/initialize/nodes

Version support

VxRail Software	Supported versions
VxRail Software 4.5.x	Not supported

VxRail Software	Supported versions	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.200 and later	

Request

Authorization Not required

Response

200 Successful operation. Returns a list of discovered nodes and associated information.

Parameter	Туре	Description	
id	object	Identity information about the discovered node.	
		The id object contains:	
		 appliance_id (string): The PSNT of the node position (integer): The node position in the chassis. For G Series appliances, this parameter indicates the position of the node in the chassis. A G Series appliance can fit up to 4 nodes in a chassis. For all other appliance models, the position value is 1. total_supported_nodes (integer): Total number of supported nodes 	
esxi_versio	string	The ESXi version of the node	
vxm_system_ version	string	The VxRail system version	
evo_uuid	string	The UUID of the VxRail Manager VM	
primary_ip	string	The IPv6 address of the first virtual NIC (vmk0) of the node (with a ":%eth1" suffix)	
fallback_ip	string	Null. (For internal use only)	
idrac_ip	string	The iDRAC IP address for the node	
prerecoded_ ip	string	Null. (For internal use only)	
ip	string	The IPv4 address of the node	
asset_tag	string	The asset tag of the node	
serial_numb er	string	The serial number of the node	
primary	boolean	Whether the node is the primary node	
cluster_aff inity	string	Null. (For internal use only)	
rsa_public_ key	string	RSA public key of the node	
ssl_thumbpr	string	SSL thumbprint of the node	

Parameter	Туре	Description
ssh_thumbpr int	string	SSH thumbprint of the node
uuid	object	UUID information about the discovered node.
		The uuid object contains:
		• host (string): The UUID of the node
hardware_pr ofile	object	Hardware profile of the discovered node, including the NIC profile, CPU configuration, and memory configuration
		The hardware_profile object contains:
		 cpu (object): Information about the CPU cores (integer): Number of CPU cores in the host speed (number): CPU speed in MHz memory (object): Information about the memory size (number): RAM size nics (object): Information about the NICs name (string): Device name of the NIC speed (number): NIC speed in Mbps port_info (string): Physical port information for the NIC product_name (string): Manufacturer product name for the NIC disks (object): Information about the disk drives ssd (boolean): Whether the disk drive is an SSD blocks (number): Block count of the disk drive block size (number): Block size
discovered_ date	integer	Null. (For internal use only)
configurati	string	The configuration state of the node
on_state		Supported values include UNCONFIGURED, CONFIGURING, CONFIGURED.
model	string	Model number of the node
ip_set	object	Null. (For internal use only)
node_versio n_info	object	Null. (For internal use only)
vsan_repair _timeout_va lue	integer	The amount of time vSAN waits before rebuilding a disk object after a node is either in a failed state or in Maintenance Mode
violations	[string]	Messages about hardware profile violations
hw_filterin g_skipped	boolean	For internal use only

Example:

```
"esxi_version": "7.0.1-16850804",
    "primary_ip": "",
    "fallback_ip": "",
    "idrac_ip": "20.11.216.13",
    "ip": "20.11.216.15",
    "asset_tag": "4VSLJ23-01-01",
```

```
"serial number": "4VSLJ23",
    "primary": true,
"model": "VxRail D560F",
    "id": {
       "appliance_id": "4VSLJ230000000",
"position": 1,
       "total_supported_nodes": 1
    },
"uuid": {
       "host": "4c4c4544-0056-5310-804c-b4c04f4a3233"
    "ssl_thumbprint":
"EA:F4:32:B0:54:41:35:71:C5:3B:E6:05:E3:D8:A2:2B:7E:43:D8:70",
    "ssh thumbprint": "bVb1RoKb+1T69fvYxJAEvlvPYgeNzFnYpJNJHuXU/X8",
    "configuration_state": "UNCONFIGURED",
    "hardware_profile": {
       "nics": [
         {
           "name": "vmnic0",
"speed": 1000,
"port_info": "Slot: 1, Port: 1",
            "product name": "Intel(R) Ethernet 10G 4P X550 rNDC"
           "name": "vmnic1",
"speed": 1000,
"port_info": "Slot: 1, Port: 2",
            "product name": "Intel(R) Ethernet 10G 4P X550 rNDC"
      ],
"disks": [
         {
           "ssd": true,
"blocks": 1562824368,
            "block size": 512
         {
           "ssd": true,
"blocks": 3750748848,
            "block size": 512
       "cpu": {
         "cores": 22,
         "speed": 2095
       "memory": {
         "size": 261758
    }
  }
]
```

404 The request resource was not found.

500 Unexpected internal server error.

GET /v2/system/initialize/nodes

Retrieves nodes discovered during auto-discovery (v2).

The V2 version of this API provides new disk group config and storage types objects in the return schema.

URL

<VxRail IP address>/rest/vxm/v2/system/initialize/nodes

Version support

VxRail Software	Supported versions
VxRail Software 4.5.x	Not supported
VxRail Software 4.7.x	Not supported
VxRail Software 7.0.x	Supported in 7.0.240 and later

Request

Authorization

Not required

Response

200

Successful operation. Returns a list of the discovered nodes.

Parameter	Туре	Description
version	string	Response version of the discovered nodes
nodes	[object]	Array of discovered nodes See the DiscoveredNodeInfoV4 table below for property descriptions

The nodes object uses the DiscoveredNodeInfoV4 schema described in the following table:

Parameter	Туре	Description	
id	object	Identity information about the discovered node	
		The id object contains:	
		 appliance_id (string): The PSNT of the node position (integer): The node position in the chassis. For G Series appliances, this parameter indicates the position of the node in the chassis. A G Series appliance can fit up to 4 nodes in a chassis. For all other appliance models, the position value is 1. total_supported_nodes (integer): Total number of supported nodes 	
esxi_versio	string	The ESXi version of the node	
vxm_system_ version	string	The VxRail system version	
evo_uuid	string	The UUID of the VxRail Manager VM	
primary_ip	string	The IPv6 address of the first virtual NIC (vmk0) of the node (with a ":%eth1" suffix)	
idrac_ip	string	The iDRAC IP address for the node	

Parameter	Туре	Description	
ip	string	The IPv4 address of the node	
asset_tag	string	The asset tag of the node	
serial_numb er	string	The serial number of the node	
primary	boolean	Whether the node is the primary node	
rsa_public_ key	string	RSA public key of the node	
ssl_thumbpr	string	SSL thumbprint of the node	
ssh_thumbpr int	string	SSH thumbprint of the node	
uuid	object	UUID information about the discovered node. The uuid object contains: • host (string): The UUID of the node	
hardware_pr ofile	object	Hardware profile of the discovered node, including the NIC profile, CPU configuration, and memory configuration	
		The hardware_profile object contains: cpu (object): Information about the CPU cores (integer): Number of CPU cores in the host speed (number): CPU speed in MHz memory (object): Information about the memory size (number): RAM size nics (object): Information about the NICs name (string): Device name of the NIC speed (number): NIC speed in Mbps port_info (string): Physical port information for the NIC product_name (string): Manufacturer product name for the NIC disks (object): Information about the disk drives ssd (boolean): Whether the disk drive is an SSD blocks (number): Block count of the disk drive block_size (number): Block size	
disk_group_ config	object	Configuration information for the disk group, including recommendations and options. This object is only returned for VxRail with 3 rd Gen Intel Xeon Scalable processors. The disk_group_config object contains: • recommendation (object): Information about the disk group type and description • type (string): The type of disk group configuration • description (string): Description of the disk group type • options ([object]): Array of disk group configuration • type (string): The type of disk group configuration • description (string): Description of the disk group type	
storage_typ	[string]	Storage type of the node Supported values include Local, External, None, Unknown.	

Parameter	Туре	Description
configurati string		The configuration state of the node
on_state		Supported values include UNCONFIGURED, CONFIGURING, CONFIGURED.
model	string	Model number of the node
violations	[string]	Messages about hardware profile violations

Example:

```
[
  "version": "1.0",
  "nodes": [
       "esxi version": "7.0.1-16850804",
       "vxm_system_version": "7.0.200-26924297",
"evo_uuid": "564dd4b8-e64f-0148-1126-4af44484e134",
       "primary_ip": "",
"idrac_ip": "20.11.216.13",
"ip": "20.11.216.15",
"asset_tag": "4VSLJ23-01-01",
       "serial number": "4VSLJ23",
       "primary": true,
"model": "VxRail D560F",
       "id": {
         "appliance_id": "4VSLJ230000000", "position": 1,
          "total_supported_nodes": 1
       "uuid": {
    "host": "4c4c4544-0056-5310-804c-b4c04f4a3233"
       "ssl_thumbprint":
"EA:F4:32:B0:54:41:35:71:C5:3B:E6:05:E3:D8:A2:2B:7E:43:D8:70",
       "ssh_thumbprint": "bVb1RoKb+1T69fvYxJAEvlvPYgeNzFnYpJNJHuXU/X8",
       "configuration_state": "UNCONFIGURED",
       "storage_types": [
"Local"
       "hardware_profile": {
          "nics": [
               "name": "vmnic0",
               "speed": 1000,
               "port_info": "Slot: 1, Port: 1",
"product_name": "Intel(R) Ethernet 10G 4P X550 rNDC"
              "name": "vmnic1",
               "speed": 1000,
"port_info": "Slot: 1, Port: 2",
              "product name": "Intel(R) Ethernet 10G 4P X550 rNDC"
              "name": "vmnic2",
              "speed": 10000,
               "port_info": "Slot: 1, Port: 3",
               "product_name": "Intel(R) Ethernet 10G 4P X550 rNDC"
            },
              "name": "vmnic3",
"speed": 10000,
               "port_info": "Slot: 1, Port: 4",
               "product_name": "Intel(R) Ethernet 10G 4P X550 rNDC"
```

404 The request resource was not found.

500 Unexpected internal server error.

POST /v1/system/initialize/customer-supplied-hosts

Retrieves a set of customer-supplied nodes from the management IP address and ESXi root password.

URL

<VxRail IP address>/rest/vxm/v1/system/initialize/customer-supplied-hosts

Version support

VxRail Software	Supported versions
VxRail Software 4.5.x	Not supported
VxRail Software 4.7.x	Not supported
VxRail Software 7.0.x	Supported in 7.0.200 and later

Request

Authorization Not required

Body parameters [CustomerSuppliedHostInfo]: (Required) Information needed to retrieve customer-supplied hosts.

Parameter	Туре	Description
management_ip	string	(Required) User-specified management IP address of the host
current_root_passw ord	string	(Optional) User-specified root account password for the host. The default ESXi host root password is set if this parameter is not provided.

Example:

```
[
    "management_ip": "10.20.201.11",
    "current_root_password": "Password"
}
]
```

Response

200 Successful operation. Returns a list of customer-supplied hosts and associated information.

Parameter	Туре	Description	
id	object	Identity information about the discovered node.	
		The id object contains:	
		 appliance_id (string): The PSNT of the node position (integer): The node position in the chassis. For G Series appliances, this parameter indicates the position of the node in the chassis. A G Series appliance can fit up to 4 nodes in a chassis. For all other appliance models, the position value is 1. total_supported_nodes (integer): Total number of supported nodes 	
esxi_versio	string	The ESXi version of the node	
vxm_system_ version	string	The VxRail system version	
evo_uuid	string	The UUID of the VxRail Manager VM	
primary_ip	string	The IPv6 address of the first virtual NIC (vmk0) of the node (with a ":%eth1" suffix)	
fallback_ip	string	Null. (For internal use only)	
idrac_ip	string	The iDRAC IP address for the node	
prerecoded_ ip	string	Null. (For internal use only)	
ip	string	The IPv4 address of the node	
asset_tag	string	The asset tag of the node	
serial_numb er	string	The serial number of the node	
primary	boolean	Whether the node is the primary node	

Parameter	Туре	Description	
cluster_aff inity	string	Null. (For internal use only)	
rsa_public_ key	string	RSA public key of the node	
ssl_thumbpr int	string	SSL thumbprint of the node	
ssh_thumbpr int	string	SSH thumbprint of the node	
uuid	object	UUID information about the discovered node.	
		The uuid object contains:	
		• host (string): The UUID of the node	
hardware_pr ofile	object	Hardware profile of the discovered node, including the NIC profile, CPU configuration, and memory configuration	
		The hardware_profile object contains:	
discovered_date configuration_state	<pre>integer string</pre>	 cpu (object): Information about the CPU cores (integer): Number of CPU cores in the host speed (number): CPU speed in MHz memory (object): Information about the memory size (number): RAM size nics (object): Information about the NICs name (string): Device name of the NIC speed (number): NIC speed in Mbps port_info (string): Physical port information for the NIC product_name (string): Manufacturer product name for the NIC disks (object): Information about the disk drives ssd (boolean): Whether the disk drive is an SSD blocks (number): Block count of the disk drive block_size (number): Block size Null. (For internal use only) 	
		Supported values include UNCONFIGURED, CONFIGURING, CONFIGURED.	
model	string	Model number of the node	
ip_set	object	Null. (For internal use only)	
node_versio n_info	object	Null. (For internal use only)	
vsan_repair _timeout_va lue	integer	The amount of time vSAN waits before rebuilding a disk object after a node is either in a failed state or in Maintenance Mode	
violations	[string]	Messages about hardware profile violations	
hw_filterin g_skipped	boolean	For internal use only	

```
Γ
  {
     "esxi version": "7.0.1-16850804",
    "primary_ip": "",
"fallback_ip": "",
"idrac_ip": "20.11.216.13",
"ip": "20.11.216.15",
     "asset_tag": "4VSLJ23-01-01",
"serial_number": "4VSLJ23",
    "primary": true,
"model": "VxRail D560F",
     "id": {
       "appliance_id": "4VSLJ230000000",
"position": 1,
       "total_supported_nodes": 1
       "host": "4c4c4544-0056-5310-804c-b4c04f4a3233"
     "ssl thumbprint":
"EA:F4:32:B0:54:41:35:71:C5:3B:E6:05:E3:D8:A2:2B:7E:43:D8:70",
     "ssh_thumbprint": "bVb1RoKb+1T69fvYxJAEvlvPYgeNzFnYpJNJHuXU/X8", "configuration_state": "UNCONFIGURED",
     "hardware_profile": {
       "nics": [
          {
            "name": "vmnic0",
            "speed": 1000,
"port_info": "Slot: 1, Port: 1",
            "product_name": "Intel(R) Ethernet 10G 4P X550 rNDC"
          },
          {
            "name": "vmnic1",
            "speed": 1000,
            "port_info": "Slot: 1, Port: 2",
            "product_name": "Intel(R) Ethernet 10G 4P X550 rNDC"
       ],
"disks": [
          {
            "ssd": true,
            "blocks": 1562824368,
            "block_size": 512
            "ssd": true,
"blocks": 3750748848,
            "block_size": 512
        "cpu": {
          "cores": 22,
          "speed": 2095
       "memory": {
    "size": 261758
    }
  }
]
```

The request could not be understood by the server due to malformed syntax.

500 Unexpected internal server error.

400

POST /v2/system/initialize/customer-supplied-hosts

Retrieves a set of customer-supplied nodes from the management IP address and ESXi root password (v2).

URL

<VxRail IP address>/rest/vxm/v2/system/initialize/customer-supplied-hosts

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.240 and later	

Request

Authorization

Not required

Body parameters [CustomerSuppliedHostInfo]: (Required) Information needed to retrieve customer-supplied hosts.

Parameter	Туре	Description
management_ip	string	(Required) User-specified management IP address of the host
current_root_passw ord	string	(Optional) User-specified root account password for the host. The default ESXi host root password is set if this parameter is not provided.

Example:

```
[
     "management_ip": "10.20.201.11",
     "current root password": "Password"
```

Response

200

Successful operation. Returns a list of customer-supplied hosts and associated information.

Parameter	Туре	Description	
version	string	Response version of the discovered nodes	
nodes	[object]	Array of discovered nodes	
		See the DiscoveredNodeInfoV4 table below for property descriptions	

The nodes object uses the DiscoveredNodeInfoV4 schema described in the following table:

Parameter	Туре	Description		
id	object	Identity information about the discovered node		
		The id object contains:		
		• appliance_id (string): The PSNT of the node		
		• position (integer): The node position in the chassis.		
		 For G Series appliances, this parameter indicates the position of the node in the chassis. A G Series appliance can fit up to 4 nodes in a chassis. 		
		o For all other appliance models, the position value is 1.		
		 total_supported_nodes (integer): Total number of supported nodes 		
esxi_versio n	string	The ESXi version of the node		
vxm_system_ version	string	The VxRail system version		
evo_uuid	string	The UUID of the VxRail Manager VM		
primary_ip	string	The IPv6 address of the first virtual NIC (vmk0) of the node (with a ":%eth1" suffix)		
idrac_ip	string	The iDRAC IP address for the node		
ip	string	The IPv4 address of the node		
asset_tag	string	The asset tag of the node		
serial_numb er	string	The serial number of the node		
primary	boolean	Whether the node is the primary node		
rsa_public_ key	string	RSA public key of the node		
ssl_thumbpr int	string	SSL thumbprint of the node		
ssh_thumbpr int	string	SSH thumbprint of the node		
uuid	object	UUID information about the discovered node.		
		The uuid object contains:		
		• host (string): The UUID of the node		
hardware_pr ofile	object	Hardware profile of the discovered node, including the NIC profile, CPU configuration, and memory configuration		
		The hardware_profile object contains:		
		• cpu (object): Information about the CPU		
		o cores (integer): Number of CPU cores in the host		
		speed (number): CPU speed in MHzmemory (object): Information about the memory		
		memory (object). Information about the memory size (number): RAM size		
		• nics (object): Information about the NICs		
		o name (string): Device name of the NIC		
		o speed (number): NIC speed in Mbps		
		 port_info (string): Physical port information for the NIC product_name (string): Manufacturer product name for the NIC 		

Parameter	Туре	Description	
		disks (object): Information about the disk drives ssd (boolean): Whether the disk drive is an SSD blocks (number): Block count of the disk drive block_size (number): Block size	
disk_group_ config	object	Configuration information for the disk group, including recommendations and options. This object is only returned for VxRail with 3 rd Gen Intel Xeon Scalable processors.	
		The disk_group_config object contains:	
		 recommendation (object): Information about the disk group type and description type (string): The type of disk group configuration description (string): Description of the disk group type options ([object]): Array of disk group options type (string): The type of disk group configuration description (string): Description of the disk group type 	
storage_typ es	[string]	Storage type of the node Supported values include Local, External, None, Unknown.	
configurati on_state	string	The configuration state of the node Supported values include UNCONFIGURED, CONFIGURING, CONFIGURED.	
model	string	Model number of the node	
violations	[string]	Messages about hardware profile violations	

```
"version": "1.0",
  "nodes": [
       "esxi_version": "7.0.1-16850804",
"vxm_system_version": "7.0.200-26924297",
"evo_uuid": "564dd4b8-e64f-0148-1126-4af44484e134",
        "primary_ip": "",
"idrac_ip": "20.11.216.13",
"ip": "20.11.216.15",
"asset_tag": "4VSLJ23-01-01",
        "serial_number": "4VSLJ23",
        "primary": true,
"model": "VxRail D560F",
        "id": {
          "appliance_id": "4VSLJ230000000",
"position": 1,
          "total_supported_nodes": 1
        "uuid": {
    "host": "4c4c4544-0056-5310-804c-b4c04f4a3233"
        "EA:F4:32:B0:54:41:35:71:C5:3B:E6:05:E3:D8:A2:2B:7E:43:D8:70",
        "ssh_thumbprint": "bVb1RoKb+1T69fvYxJAEvlvPYgeNzFnYpJNJHuXU/X8",
        "configuration_state": "UNCONFIGURED",
"storage_types": [
"Local"
        "hardware_profile": {
           "nics": [
```

```
"name": "vmnic0",
             "speed": 1000,
"port_info": "Slot: 1, Port: 1",
             "product_name": "Intel(R) Ethernet 10G 4P X550 rNDC"
             "name": "vmnic1",
             "speed": 1000,
"port_info": "Slot: 1, Port: 2",
             "product name": "Intel(R) Ethernet 10G 4P X550 rNDC"
             "name": "vmnic2",
             "speed": 10000,
             "port_info": "Slot: 1, Port: 3",
             "product_name": "Intel(R) Ethernet 10G 4P X550 rNDC"
           },
             "name": "vmnic3",
"speed": 10000,
             "port_info": "Slot: 1, Port: 4",
             "product name": "Intel(R) Ethernet 10G 4P X550 rNDC"
        ],
"disks": [
             "ssd": true,
             "blocks": 1562824368,
             "block_size": 512
             "ssd": true,
             "blocks": 3750748848,
             "block_size": 512
             "ssd": true,
             "blocks": 3750748848,
             "block size": 512
             "ssd": true,
"blocks": 3750748848,
             "block size": 512
           }
         "cpu": {
           "cores": 22,
           "speed": 2095
        "memory": {
    "size": 261758
      }
    }
 ]
}
```

The request could not be understood by the server due to malformed syntax.

500 Unexpected internal server error.

VxRail system status

The VxRail API supports checking the system status including health, heartbeat, available nodes, and job status.

GET /v1/system

Retrieves VxRail system information.

URL

https://<VxRail IP address>/rest/vxm/v1/system

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.3xx and later	
VxRail Software 4.7.x	Supported in 4.7.0xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

200 Successful operation.

Parameter	Туре	Description
description	string	Description of the VxRail system
version	string	Software version of the VxRail
installed_time	integer	Time that the VxRail software was installed
health	string	Health status of the VxRail system
		Supported values are Critical, Error, Warning, and Healthy.
network_connected	boolean	Whether the host is connected to the internet
vc_connected	boolean	Whether the vCenter is connected
upgrade_status	string	The upgrade status of the VxRail software

Parameter	Туре	Description
		Supported values are LATEST, HAS_NEWER, DOWNLOADING, UPLOADING, CANCELLED, DOWNLOADED, ERR_DOWNLOAD, ERR_UPLOAD, UPLOADED, PROFILE_PRECHECKED, ERR_PROFILE_PRECHECKER, UPGRADE_PRECHECKING, ERR_UPGRADE_PRECHECKER, UPGRADING, UPGRADED, and ERR_UPGRADED.
<pre>installed_component s</pre>	[object]	Information about software components installed in the VxRail system The installed_components object contains the following properties: component (string): Type of the installed software component name (string): Installed component name description (string): Installed component description current_version (string): Installed component version upgrade_status (string): Description of the upgrade status of the installed software component baseline (integer): Software version of the component at the time that the component was initially installed installed_time (string): The time that the software component was initially installed (in milliseconds) [incompatibilities] (string): A list of other software components that the installed component is incompatible with multiple_version (boolean): Whether the software component has different versions installed in other nodes in the cluster baseline_drifted (boolean): Whether the current configuration of the installed software component is different than the initial configuration of the installed software component is supported (boolean): Whether the current version of the installed software component is supported
cluster_type	string	Cluster configuration of the VxRail system
number_of_host	integer	Number of hosts in the cluster
is_external_vc	boolean	Whether the vCenter is an external vCenter
logical_view_status	boolean	Whether the VxRail Manager logical view is enabled

```
{
  "description": "A hyper-converged infrastructure appliance that
combines VMware compute, networking and storage into one single system
for ease of deployment and management.",
  "version": "4.7.000-5969304",
  "installed_time": 1528275533,
  "health": "Critical",
  "network_connected": true,
  "vc_connected": true,
```

```
"upgrade status": "LATEST",
  "installed components": [
      "name": "Dell PTAgent",
      "description": "Dell PTAgent installed on ESXi",
      "current_version": "1.0-0",
"upgrade_status": "LATEST",
      "baseline": "1.0-0"
      "installed time": 1528275533,
      "incompatibilities": []
    },
      "name": "VMware ESXi",
"description": "VMware ESXi is the industry-leading, purpose-built
bare-metal hypervisor. ESXi installs directly onto your physical server
enabling it to be partitioned into multiple logical servers referred to
as virtual machines.",
      "current_version": "6.5.0-5969303", "upgrade_status": "LATEST",
      "baseline": "6.5.0-5969303"
      "installed_time": 1528275533,
      "incompatibilities": [
         "VMware vCenter Server 4.0.0-7434890"
    },
      "name": "VxRail Manager",
      "description": "The management component that orchestrates the
deployment and management of VxRail system.",
      "current_version": "4.7.000-5969303",
"upgrade_status": "LATEST",
      "baseline": "4.7.000-5969303",
      "installed time": 1528275533,
      "incompatibilities": []
    },
      "name": "VMware vCenter Server Appliance",
      "description": "Centralized visibility, proactive management and
extensibility for VMware vSphere from a single console VMware vCenter
Server provides a centralized platform for managing your VMware vSphere
environments, so you can automate and deliver a virtual infrastructure
with confidence.",
      "current_version": "6.5.0-5973321",
      "upgrade status": "LATEST",
      "baseline": "6.5.0-5973321"
      "installed time": 1528275533,
      "incompatibilities": []
    },
      "name": "VxRail Manager VIB",
      "description": "VxRail Manager agent installed on ESXi.",
      "current_version": "4.5.0-5018707",
"upgrade_status": "LATEST",
      "baseline": "4.5.0-5018707"
      "installed_time": 1528275533,
      "incompatibilities": []
    }
 ]
}
```

401 Username or password is not recognized.

The user is not allowed due to insufficient privilege.

The VxRail Manager system info is not found.

500 Unexpected internal server error.

GET /v2/system

Retrieves VxRail system information (version 2).

URL

https://<VxRail IP address>/rest/vxm/v2/system

Version support

VxRail Software	Supported versions
VxRail Software 4.5.x	Not supported
VxRail Software 4.7.x	Not supported
VxRail Software 7.0.x	Supported in 7.0.010 and later

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

200 Successful operation.

Parameter	Туре	Description
description	string	Description of the VxRail system
version	string	Software version of the VxRail
installed_time	integer	Time that the VxRail software was installed
health	string	Health status of the VxRail system
		Supported values are Critical, Error, Warning, and Healthy.
network_connected	boolean	Whether the host is connected to the internet
vc_connected	boolean	Whether the vCenter is connected
upgrade_status	string	The upgrade status of the VxRail software
		Supported values are LATEST, HAS_NEWER, DOWNLOADING, UPLOADING, CANCELLED, DOWNLOADED, ERR_DOWNLOAD, ERR_UPLOAD, UPLOADED, PROFILE_PRECHECKED, ERR_PROFILE_PRECHECKER, UPGRADE_PRECHECKING, ERR_UPGRADE_PRECHECKER, UPGRADING, UPGRADED, and ERR_UPGRADED.
installed_component s	[object]	Information about software components installed in the VxRail system

Parameter	Туре	Description
		The installed_components object contains the following properties: component (string): Type of the installed software component name (string): Installed component name description (string): Installed component description current_version (string): Installed component version upgrade_status (string): Description of the upgrade status of the installed software component baseline (integer): Software version of the component at the time that the component was initially installed installed_time (string): The time that the software component was initially installed (in milliseconds) [incompatibilities] (string): A list of other software components that the installed component is incompatible with multiple_version (boolean): Whether the software component has different versions installed in other nodes in the cluster baseline_drifted (boolean): Whether the current configuration of the installed software component is different than the initial configuration of the installed software component is supported (boolean): Whether the current version of the installed software component is supported
deployment_type	[string]	Information about the deployment type of the VxRail system. Supported values include STANDARD, VSAN_2_NODE, STRETCHED_CLUSTER, DIMENSION, VCF, VVD.
number_of_host	integer	Number of hosts in the cluster
is_external_vc	boolean	Whether the vCenter is a customer supplied vCenter (external)
logical_view_status	boolean	Whether the VxRail Manager logical view is enabled

```
"description": "A hyperconverged infrastructure appliance that
combines VMware compute, networking and storage into one single system
for ease of deployment and management.",
   "version": "4.7.000-5969304",
   "installed_time": 1528275533,
   "health": "Critical",
   "network_connected": true,
   "vc_connected": true,
   "upgrade_status": "LATEST",
   "deployment_type": [
        "STANDARD",
        "VCF"
],
   "number_of_host": 2,
   "is_external_vc": true,
   "logical_view_status": true,
   "installed_components": [
```

```
"component": "DellPTAgent", "name": "Dell PTAgent",
       "description": "Dell PTAgent installed on ESXi",
       "current_version": "1.0-0",
"upgrade_status": "LATEST",
       "baseline": "1.0-0",
       "installed_time": 1528275533,
       "incompatibilities": [],
      "multiple_version": true,
       "baseline drifted": true,
       "supported": true
    },
       "component": "Esx"
       "name": "VMware ESXi",
       "description": "VMware ESXi is the industry-leading, purpose-built
bare-metal hypervisor. ESXi installs directly onto your physical server
enabling it to be partitioned into multiple logical servers referred to
as virtual machines.",
      "current_version": "6.5.0-5969303",
"upgrade_status": "LATEST",
"baseline": "6.5.0-5969303",
      "installed_time": 1528275533,
       "incompatibilities": [
         "VMware vCenter Server 4.0.0-7434890"
       "multiple_version": false,
       "baseline drifted": true,
      "supported": true
       "component": "VxRail",
       "name": "VxRail Manager",
       "description": "The management component that orchestrates the
"upgrade_status": "LATEST"
       "baseline": "4.7.000-5969303",
       "installed time": 1528275533,
       "multiple_version": false,
      "baseline_drifted": true,
"incompatibilities": []
    },
      "component": "Vcenter",
       "name": "VMware vCenter Server Appliance",
       "description": "Centralized visibility, proactive management and
extensibility for VMware vSphere from a single console VMware vCenter
Server provides a centralized platform for managing your VMware vSphere
environments, so you can automate and deliver a virtual infrastructure with confidence.", "current_version": "6.5.0-5973321",
       "upgrade_status": "LATEST",
      "baseline": "6.5.0-5973321"
       "installed_time": 1528275533,
       "multiple_version": false,
      "baseline drifted": true,
       "incompatibilities": []
    },
       "component": "VxRailVib",
      "name": "VxRail Manager VIB",
"description": "VxRail Manager agent installed on ESXi.",
      "current version": "4.5.0-5018707",
       "upgrade_status": "LATEST",
"baseline": "4.5.0-5018707"
       "installed time": 1528275533,
       "incompatibilities": [],
       "multiple version": false,
      "baseline drifted": true,
       "supported": true
```

} 1 }

401 Username or password is not recognized.

The user is not allowed due to insufficient privilege.

The VxRail Manager system info is not found.

500 Unexpected internal server error.

GET /v3/system

Retrieves VxRail system information (version 3).

URL

https://<VxRail IP address>/rest/vxm/v3/system

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.130 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

200 Successful operation.

Parameter	Туре	Description
description	string	Description of the VxRail system
version	string	Software version of the VxRail
installed_time	integer	Time that the VxRail software was installed
health	string	Health status of the VxRail system
		Supported values are Critical, Error, Warning, and Healthy.
network_connected	boolean	Whether the host is connected to the internet
vc_connected	boolean	Whether the vCenter is connected

Parameter	Туре	Description
upgrade_status	string	The upgrade status of the VxRail software
		Supported values are LATEST, HAS_NEWER, DOWNLOADING, UPLOADING, CANCELLED, DOWNLOADED, ERR_DOWNLOAD, ERR_UPLOAD, UPLOADED, PROFILE_PRECHECKED, ERR_PROFILE_PRECHECKER, UPGRADE_PRECHECKING, ERR_UPGRADE_PRECHECKER, UPGRADING, UPGRADED, and ERR_UPGRADED.
installed_component s	[object]	Information about software components installed in the VxRail system
		The installed_components object contains the following properties:
		component (string): Type of the installed software component
		 name (string): Installed component name description (string): Installed component description
		• current_version (string): Installed component version
		 upgrade_status (string): Description of the upgrade status of the installed software component baseline (integer): Software version of the component at the time that the component was initially installed
		• installed_time (string): The time that the software component was initially installed (in milliseconds)
		• [incompatibilities] (string): A list of other software components that the installed component is incompatible with
		 multiple_version (boolean): Whether the software component has different versions installed in other nodes in the cluster
		baseline_drifted (boolean): Whether the current configuration of the installed software component is different than the initial configuration
		supported (boolean): Whether the current version of the installed software component is supported
deployment_type	[string]	Information about the deployment type of the VxRail system. Supported values include STANDARD, VSAN_2_NODE, STRETCHED_CLUSTER, DIMENSION, VCF, VVD.
number_of_host	integer	Number of hosts in the cluster
is_external_vc	boolean	Whether the vCenter is a customer supplied vCenter (external)
logical_view_status	boolean	Whether the VxRail Manager logical view is enabled
shared_storage	[object]	Information about shared storage in the VxRail cluster
		The installed_components object contains the following properties:
		name (string): The shared datastore name

Parameter	Туре	Description
		• datastore_id (string): The shared datastore ID. This property is supported in VxRail 7.0.240 software and later.
		 type (string): The shared datastore type. Supported values include VSAN, VMFS, NFS, and VVOL.
		 protocol (string): The storage protocol used by the host. Supported values include FC, SCSI, NFS, VSAN, and OTHER.
		is_primary (boolean): Whether the datastore is the primary datastore where VxRail Manager is deployed on it

```
"description": "A hyperconverged infrastructure appliance that
combines VMware compute, networking and storage into one single system
for ease of deployment and management.",
  "version": "7.0.120-26639202"
  "installed time": 1599014694234,
  "health": "Healthy",
  "network connected": true,
  "vc connected": true,
  "deployment_type": [
   "COMPUTE",
    "VCF"
  "number_of_host": 3,
"is_external_vc": true,
  "logical view_status": true,
  "installed_components": [
    {
      "component": "DellPTAgent",
      "name": "Dell PTAgent",
      "description": "Dell PTAgent installed on ESXi",
      "current_version": "1.0-0",
      "installed time": 1598955454464,
      "multiple_version": true, "baseline_drifted": true,
      "supported": true
    },
      "component": "Esx",
      "name": "VMware ESXi",
      "description": "VMware ESXi is the industry-leading, purpose-built
bare-metal hypervisor. ESXi installs directly onto your physical server
enabling it to be partitioned into multiple logical servers referred to
as virtual machines.",
       current_version": "7.0.1-16555998",
      "installed time": 1598955061248,
      "multiple_version": false,
"baseline_drifted": true,
      "supported": true
    },
      "component": "VxRail",
      "name": "VxRail Manager",
      "description": "The management component that orchestrates the
"installed_time": 1528275533,
      "multiple_version": false, "baseline_drifted": true
    },
```

```
"component": "Vcenter",
      "name": "VMware vCenter Server Appliance",
"description": "Centralized visibility, proactive management and
extensibility for VMware vSphere from a single console VMware vCenter
Server provides a centralized platform for managing your VMware vSphere
environments, so you can automate and deliver a virtual infrastructure
with confidence.",
       "current_version": "7.0.1-16556018",
      "installed time": 1598955323392,
      "multiple version": false,
      "baseline drifted": true
    },
      "component": "VxRailVib",
      "name": "VxRail Manager VIB",
"description": "VxRail Manager agent installed on ESXi.",
      "current version": "7.0.120-16708660",
      "installed_time": 1598955323392,
"multiple_version": false,
"baseline_drifted": true,
      "supported": true
    }
  ],
"shared_storage": [
      "name": "fc-storage",
      "datastore id": "datastore-25",
      "type": "VMFS",
      "protocol": "FC"
      "is_primary": true
      "name": "vvol-iscsi-storage",
      "datastore id": "datastore-26",
      "type": "VVOL",
      "protocol": "SCSI",
      "is primary": false
    },
      "name": "vvol-nfs-storage",
      "datastore id": "datastore-27",
      "type": "VVOL",
      "protocol": "NFS",
      "is primary": false
    },
      "name": "VxRail-Virtual-SAN-
Cluster-4e23856c-5a0e-4692-8ac4-447f8e219bcd",
      "datastore id": "datastore-28",
      "type": "VSAN",
      "protocol": "VSAN",
      "is_primary": false
 ]
}
```

401 Username or password is not recognized.

The user is not allowed due to insufficient privilege.

The VxRail Manager system info is not found.

500 Unexpected internal server error.

GET /v4/system

Retrieves VxRail system information (version 4).

URL

https://<VxRail IP address>/rest/vxm/v4/system

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.300 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

200 Successful operation.

Parameter	Туре	Description
description	string	Description of the VxRail system
version	string	Software version of the VxRail
installed_time	integer	Time that the VxRail software was installed
health	string	Health status of the VxRail system
		Supported values are Critical, Error, Warning, and Healthy.
network_connected	boolean	Whether the host is connected to the internet
vc_connected	boolean	Whether the vCenter is connected
upgrade_status	string	The upgrade status of the VxRail software
		Supported values are: CANCELLED, DOWNLOADING, DOWNLOADED, ERR_DOWNLOAD, ERR_PROFILE_PRECHECKER, ERR_UPGRADED, ERR_UPGRADED, ERR_UPLOAD, HAS_NEWER, LATEST, PROFILE_PRECHECKED, UPGRADED, UPGRADE_PRECHECKING, UPGRADING, UPLOADED and UPLOADING.
installed_component s	[object]	Information about software components installed in the VxRail system

Parameter	Туре	Description
		The installed_components object contains the following properties: component (string): Type of the installed software component name (string): Installed component name description (string): Installed component description current_version (string): Installed component version upgrade_status (string): Description of the upgrade status of the installed software component baseline (integer): Software version of the component at the time that the component was initially installed installed_time (string): The time that the software component was initially installed (in milliseconds) [incompatibilities] (string): A list of other software components that the installed component is incompatible with multiple_version (boolean): Whether the software component has different versions installed in other nodes in the cluster baseline_drifted (boolean): Whether the current configuration of the installed software component is different than the initial configuration supported (boolean): Whether the current version of the installed software component is supported
deployment_type	[string]	Information about the deployment type of the VxRail system. Supported values include STANDARD, VSAN_2_NODE, STRETCHED_CLUSTER, DIMENSION, VCF, VVD.
cluster_host_count	integer	Number of hosts in the cluster
satellite_host_coun t	integer	Number of VxRail managed satellite nodes in the cluster
is_external_vc	boolean	Whether the vCenter is a customer supplied vCenter (external)
logical_view_status	boolean	Whether the VxRail Manager logical view is enabled
shared_storage	[object]	Information about shared storage in the VxRail cluster
		The installed_components object contains the following properties: • name (string): The shared datastore name • datastore_id (string): The shared datastore ID. This property is supported in VxRail 7.0.240 software and later. • type (string): The shared datastore type. Supported values include VSAN, VMFS, NFS, and VVOL. • protocol (string): The storage protocol used by the host. Supported values include FC, SCSI, NFS, VSAN, and OTHER.

Parameter	Туре	Description
		is_primary (boolean): Whether the datastore is the primary datastore where VxRail Manager is deployed on it

```
"description": "A hyperconverged infrastructure appliance that
combines VMware compute, networking and storage into one single system
for ease of deployment and management.",
  "version": "7.0.120-26639202",
"installed_time": 1599014694234,
"health": "Healthy",
  "network connected": true,
  "vc connected": true,
  "deployment_type": [
    "COMPUTE",
    "VCF"
  ],
"number_of_host": 3,
  "is_external_vc": true,
  "logical_view_status": true,
  "installed components": [
       "component": "DellPTAgent",
"name": "Dell PTAgent",
       "description": "Dell PTAgent installed on ESXi",
       "current_version": "1.0-0",
       "installed_time": 1598955454464,
       "multiple_version": true,
       "baseline_drifted": true,
       "supported": true
    },
       "component": "Esx",
       "name": "VMware ESXi",
       "description": "VMware ESXi is the industry-leading, purpose-built
bare-metal hypervisor. ESXi installs directly onto your physical server
enabling it to be partitioned into multiple logical servers referred to
as virtual machines.",
       "current_version": "7.0.1-16555998", "installed_time": 1598955061248,
       "multiple_version": false,
       "baseline drifted": true,
       "supported": true
    },
       "component": "VxRail",
       "name": "VxRail Manager",
       "description": "The management component that orchestrates the
deployment and management of VxRail system.",
    "current_version": "7.0.120-26639202",
    "installed_time": 1528275533,
       "multiple_version": false,
       "baseline drifted": true
    },
       "component": "Vcenter",
       "name": "VMware vCenter Server Appliance",
"description": "Centralized visibility, proactive management and
extensibility for VMware vSphere from a single console VMware vCenter
Server provides a centralized platform for managing your VMware vSphere
environments, so you can automate and deliver a virtual infrastructure
with confidence.",
       "current version": "7.0.1-16556018",
       "installed time": 1598955323392,
       "multiple version": false,
```

```
"baseline drifted": true
      "component": "VxRailVib",
      "name": "VxRail Manager VIB",
      "description": "VxRail Manager agent installed on ESXi.",
      "current version": "7.0.120-16708660",
      "installed_time": 1598955323392,
      "multiple_version": false,
"baseline_drifted": true,
      "supported": true
    }
  ],
"shared_storage": [
      "name": "fc-storage",
      "datastore id": "datastore-25",
      "type": "VMFS",
      "protocol": "FC",
      "is_primary": true
    },
      "name": "vvol-iscsi-storage",
      "datastore id": "datastore-26",
      "type": "VVOL",
      "protocol": "SCSI",
      "is_primary": false
    },
      "name": "vvol-nfs-storage",
      "datastore_id": "datastore-27",
      "type": "V\overline{V}OL",
      "protocol": "NFS",
      "is primary": false
      "name": "VxRail-Virtual-SAN-
Cluster-4e23856c-5a0e-4692-8ac4-447f8e219bcd",
      "datastore id": "datastore-28",
      "type": "VSAN",
      "protocol": "VSAN",
      "is_primary": false
 ]
}
```

401 Username or password is not recognized.

The user is not allowed due to insufficient privilege.

The VxRail Manager system info is not found.

500 Unexpected internal server error.

GET /v1/system-health (DEPRECATED)

Get the system health of the cluster.

URL

https://<VxRail IP address>/rest/vxm/v1/system-health

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.2xx	
	Deprecated in 4.5.3xx and later	
VxRail Software 4.7.x	Deprecated in all 4.7.x versions	
VxRail Software 7.0.x	Deprecated in all 7.0.x versions	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

200 The system health has been successfully returned.

{
 "string": "Healthy"
}

The possible responses include "Healthy", "Critical", "Error", and "Warning".

401 Username or password is not recognized.

The user is not allowed due to insufficient privilege.

404 No system health information is found.

500 Failed with internal errors.

GET /v1/support/heartbeat

Retrieves the last heartbeat status and system configuration.

URL

https://<VxRail IP address>/rest/vxm/v1/support/heartbeat

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.2xx and later	
VxRail Software 4.7.x	Supported in 4.7.0xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization

(Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

200

Heartbeat status and data successfully returned.

Example:

```
"id": "1,",
"status": "SUCCESS,",
"target": "Appliance-EMCVB150600013,",
"beginTime": "2017-11-17T05:18:33.039Z,",
"endTime": "2017-11-17T05:18:33.098Z,",
"message": "OK,",
"data": "the content of beartheat our con
 "data": "the content of heartbeat syr configuration"
```

401 Username or password is not recognized.

The user is not allowed due to insufficient privilege. 403

500 Unexpected internal server error.

DarksiteForbidden:

This feature may be unavailable because VxRail Manager is disconnected from the Internet.

GET /v1/callhome/mode

Retrieves the call home mode.

URL

```
https://<VxRail IP address>/rest/vxm/v1/callhome/mode
```

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.3xx and later	
VxRail Software 4.7.x	Supported in 4.7.0xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization

(Required) Username and password encoded with Base64

Response

200 Successful operation.

Parameter	Туре	Description
is_muted	boolean	Whether call home mode is muted or unmuted
		Supported values are true and false. True indicates that call home is muted.

401 Username or password is not recognized.

The user is not allowed due to insufficient privilege.

500 Failed with internal errors.

PUT /v1/callhome/mode

Changes the call home mode status.

URL

https://<VxRail IP address>/rest/vxm/v1/callhome/mode

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.3xx and later	
VxRail Software 4.7.x	Supported in 4.7.0xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameter CallhomeSettingsSpec: (Required) Sets whether call home mode is muted or unmuted.

Parameter	Туре	Description
is_muted	boolean	(Required) Whether call home mode is muted or unmuted
		Supported values are true and false. True indicates that call home is muted.

```
{
  "is_muted": false
}
```

Response

200 Operation successful.

400 The call home parameters are not valid.

401 Username/password is not recognized.

The user is not allowed due to insufficient privilege.

500 Failed with internal errors.

GET /v1/callhome/info

Retrieves information about the call home servers (version 1).

URL

https://<VxRail IP address>/rest/vxm/v1/callhome/info

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.3xx and later	
VxRail Software 4.7.x	Supported in 4.7.0xx through 4.7.3xx	
	Deprecated in 4.7.410 and later	
VxRail Software 7.0.x	Not supported	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

200 Call home operation status successfully returned.

Parameter	Туре	Description
status	string	Status of the SRS server

Parameter	Туре	Description	
		Supported values are deploying, deployed, registering, and registered.	
integrated	boolean	Whether the SRS server is integrated (internal) or external	
ip_list	[IP] objects	Provides a list of SRS addresses with associated information. IP objects contain the following: ip (string): IP address of the SRS server primary (boolean): Whether the SRS server is primary or not version (string): SRS version upgradeRequestId (string): Request ID, used for internal SRS upgrades only	
site_id	string	Site ID for the SRS server	

401 Unauthorized request.

403 Forbidden request.

404 Resource not found.

CallhomeNotFound:

```
{
  "errorCode": 4,
  "message": "No callhome information found. Callhome may not be
registered."
}
```

500 Failed with internal errors.

GET /v2/callhome/info

Retrieves information about the call home servers (version 2).

URL

https://<VxRail IP address>/rest/vxm/v2/callhome/info

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Supported in 4.7.410 and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

200 Operation successful.

Parameter	Туре	Description
status	string	Status of the SRS server
		Supported values are deploying, deployed, registering, and registered.
integrated	boolean	Whether the SRS server is integrated (internal) or external
address_list	[Address] objects	Provides a list of SRS addresses with associated information. Address objects contain the following: address (string): IP address or FQDN of the SRS server primary (boolean): Whether the SRS server is primary or not version (string): SRS version upgradeRequestId (string): Request ID, used for internal SRS upgrades only
site_id	string	Site ID for the SRS server

Example:

401 Unauthorized request.

403 Forbidden request.

404 Resource not found.

CallhomeNotFound:

```
{
  "errorCode": 4,
  "message": "No callhome information found. Callhome may not be
registered."
}
```

500

Failed with internal errors.

POST /v1/callhome/deployment

Deploys an internal call home server (version 1).

URL

https://<VxRail IP address>/rest/vxm/v1/callhome/deployment

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.3xx and later	
VxRail Software 4.7.x	Supported in 4.7.0xx through 4.7.3xx Deprecated in 4.7.410 and later	
VxRail Software 7.0.x	Not supported	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameter CallHomeDeploySpec: (Required) Information about the SRS to be deployed

Parameter	Туре	Description
admin_pwd	string	(Required) Administrator password for accessing the SRS server
company	string	(Required) Company name
email	string	(Required) Email address of the support account
first_name	string	First name of the support administrator
ip	string	(Required) IP address of the SRS server
last_name	string	(Required) Last name of the support administrator
phone	string	(Required) Phone number of the support administrator
root_pwd	string	(Required) Root password for accessing the SRS server
site_id	string	(Required) Site ID for the SRS server

```
"admin_pwd": "Testvxrail123!",
  "company": "EMC CORP-PARTNER",
  "email": "vxrail.test@emconlinesupport.com",
  "first_name": "VxRail",
  "ip": "10.62.83.114",
  "last_name": "emc",
  "phone": "1508435-1000",
  "root_pwd": "password123!",
  "site_id": 11145366
}
```

Response

202 The request has been accepted for processing.

AcceptedRequestInfo:

Example:

```
{
   "request_id": "5ffe7062-a590-45b8-a172-8d2cf119562e"
}
```

400 Bad request.

401 Unauthorized request.

UnauthorizedRequestInfo:

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403 Forbidden request.

ForbiddenRequestInfo:

```
{
   "message": "Access Denied."
}
```

500 Unexpected internal error.

InvalidAdminPassword:

```
{
  "errorCode": 11,
  "message": "Invalid admin account's password. Please refer to SRS
password specification and try again."
}
```

AlreadyRegistered:

```
"errorCode": 16,
  "message": "There was an external SRS registered already."
}
```

IpFormatError:

```
{
  "errorCode": 6,
  "message": "IP format is not valid."
}
```

IpNetworkAddress:

```
{
  "errorCode": 9,
  "message": "Network IP address is not supported."
}
```

IpBroadcastAddress:

```
{
  "errorCode": 10,
  "message": "Broadcast IP address is not supported."
}
```

IpPingableError:

```
{
  "errorCode": 8,
  "message": "This IP is not available, please try another one."
}
```

MandatoryAttrsMissing:

```
{
  "errorCode": 17,
  "message": "Mandatory attributes missing. Please check if the
mandatory attributes of the request provided."
}
```

POST /v2/callhome/deployment

Deploys an internal call home server (version 2).

URL

https://<VxRail IP address>/rest/vxm/v2/callhome/deployment

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Supported in 4.7.410 and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body paramters CallHomeDeploySpec: (Required) Information about the SRS to be deployed

Parameter	Туре	Description
address	string	(Required) IP address or FQDN of the SRS server
admin_pwd	string	(Required) Administrator password for accessing the SRS server
company	string	(Required) Company name
email	string	(Required) Email address of the support account
first_name	string	First name of the support administrator
last_name	string	(Required) Last name of the support administrator
phone	string	(Required) Phone number of the support administrator
root_pwd	string	(Required) Root password for accessing the SRS server
site_id	string	(Required) Site ID for the SRS server

Example:

```
"address": "10.62.83.114",
"site_id": 12345678,
"first_name": "VxRail",
"last_name": "emc",
"email": "vxrail.test@emconlinesupport.com",
"phone": 12345678,
"company": "EMC",
"root_pwd": "testpassword",
"admin_pwd": "testpassword"
```

Response

The request has been accepted for processing.

Parameter	Туре	Description
request_id	string	ID message about the accepted request

Example:

```
{
    "request_id": "5ffe7062-a590-45b8-a172-8d2cf119562e"
}
```

400 The request could not be understood by the server due to malformed syntax.

Parameter	Туре	Description
error_code	integer(\$int32)	Associated error code
message	string	Detailed message about the error

401 The request requires user authentication.

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

The server understood the request, but is refusing to fulfill it.

Example:

```
{
   "message": "Access Denied."
}
```

500 Unexpected internal error.

InvalidAdminPassword:

```
{
  "errorCode": 11,
  "message": "Invalid admin account's password. Please refer to SRS
password specification and try again."
}
```

AlreadyRegistered:

```
{
  "errorCode": 16,
  "message": "There was an external SRS registered already."
}
```

IpFormatError:

```
{
  "errorCode": 6,
  "message": "IP format is not valid."
}
```

IpNetworkAddress:

```
"errorCode": 9,
  "message": "Network IP address is not supported."
}
```

IpBroadcastAddress:

```
{
  "errorCode": 10,
  "message": "Broadcast IP address is not supported."
}
```

IpPingableError:

```
{
  "errorCode": 8,
  "message": "This IP is not available, please try another one."
}
```

MandatoryAttrsMissing:

```
{
  "errorCode": 17,
  "message": "Mandatory attributes missing. Please check if the
mandatory attributes of the request provided."
}
```

POST /v1/callhome/access-code

Generates an access code to activate the internal call home server.

URL

https://<VxRail IP address>/rest/vxm/v1/callhome/access-code

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.3xx and later	
VxRail Software 4.7.x	Supported in 4.7.0xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization

(Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

NOTE: After this API completes successfully, an access code is emailed to the address specified for your support account.

Response

200 Operation successful.

401 Unauthorized request.

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403 Forbidden request.

Example:

```
{
   "message": "Access Denied."
}
```

500 Unexpected internal error.

CallhomeNotActivated

```
{
  "errorCode": 2,
  "message": "Could not generate access code, please deploy an ESRS VE
and wait for activation start."
}
```

POST /v1/callhome/internal/register

Activates and registers an internal call home server.

URL

https://<VxRail IP address>/rest/vxm/v1/callhome/internal/register

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.3xx and later	
VxRail Software 4.7.x	Supported in 4.7.0xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameters AccessCodeSpec: (Required) Access code for activating an internal call home server

(i) NOTE: To generate a new access code, see POST /v1/callhome/access-code.

Parameter	Туре	Description
access_code	string	(Required) Access code to activate an internal call home server

Example:

```
{
    "access_code": 11145366
}
```

Response

The request has been accepted for processing, but the processing has not been completed.

```
{
   "request_id": "SBI_11"
}
```

400 Bad request.

401 Unauthorized request.

403 Forbidden request.

500 Unexpected internal error.

CallhomeNotDeployed:

```
{
  "errorCode": 12,
  "message": "Could not register internal callhome at this time.
Callhome not deployed yet, please deploy internal first."
}
```

POST /v1/callhome/external/register

Registers the external call home servers (version 1).

URL

```
https://<VxRail IP address>/rest/vxm/v1/callhome/external/register
```

Version support

VxRail Software	Supported versions
VxRail Software 4.5.x	Supported in 4.5.3xx and later
VxRail Software 4.7.x	Supported in 4.7.0xx through 4.7.3xx Deprecated in 4.7.410 and later
VxRail Software 7.0.x	Not supported

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameters ExternalCallhomeRegisterSpec: (Required) Information about each of the external call home servers to be registered

Parameter	Туре	Description
site_id	string	(Required) Site ID for the SRS server
ip_list	[string]	(Required) Array of IP addresses for each of the SRS servers
support_username	string	Username for the support account
		If the support account is not logged in, providing the support username is required.
support_pwd	string	Password for the support account
		If the support account is not logged in, providing the support password is required.

Response

200 Operation successful.

Parameter	Туре	Description	
ip_list	[IP] objects	Provides a list of SRS addresses with associated information. IP objects contain the following: ip (string): IP address of the SRS server primary (boolean): Whether the SRS server is primary or not success (boolean): Whether the registration was successful	
site_id	string	Site ID for the SRS server	

Example:

```
"site_id": "11145366",
"ip_list": [
         "ip": "10.62.81.111",
"success": true,
"primary": true
         "ip": "10.62.81.112",
"success": true,
"primary": false
]
```

400 Bad request **401** Unauthorized request.

403 Forbidden request.

500 Unexpected internal error.

SupportNotLogIn:

```
{
  "errorCode": 3,
  "message": "Support account not log in."
}
```

AlreadyRegistered:

```
{
  "errorCode": 15,
  "message": "There is an internal ESRS registered already."
}
```

IpFormatError:

```
{
  "errorCode": 6,
  "message": "IP format is not valid."
}
```

IpNotPingable:

```
{
  "errorCode": 7,
  "message": "External ESRS 10.62.85.1 cannot be connected. Please check
if the ESRS VE is powered on or if there is any network problem."
}
```

SiteIdError:

```
{
  "errorCode": 13,
  "message": "The Site ID is not in the accepted range."
}
```

DeviceNotSupport:

```
{
  "errorCode": 14,
  "message": "Failed to register VxRail to ESRS. Please check that
VxRail is in the support list."
}
```

POST /v2/callhome/external/register

Registers external call home servers (version 2).

URL

https://<VxRail IP address>/rest/vxm/v2/callhome/external/register

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Supported in 4.7.410 and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameters ExternalCallhomeRegisterSpec: (Required) Information about each of the external call home servers to be registered

Parameter	Туре	Description
site_id	string	(Required) Site ID for the SRS server
address_list	[string]	(Required) Array of IP address or FQDN for each of the SRS servers
support_username	string	Username for the support account If the support account is not logged in, providing the support username is required.
support_pwd	string	Password for the support account If the support account is not logged in, providing the support password is required.

Example:

```
"site id": "11145366",
"address_list": [
"192.168.106.121",
  "esrs.testdomain"
],
"support_username": "vxrail.test@emconlinesupport.com",
"support_pwd": "password"
```

Response

200 Operation successful

Parameter	Туре	Description
address_list	[Address]	Provides a list of SRS addresses with associated information
	objects	Address objects contain the following:
		• address (string): IP address or FQDN of the SRS server
		• primary (boolean): Whether the SRS server is primary or not
		• success (boolean): Whether the registration was successful

Parameter	Туре	Description
site_id	string	Site ID for the SRS server

The request could not be understood by the server due to malformed syntax.

Parameter	Туре	Description
error_code	integer	Provides associated error code
message	string	Provides a detailed message about the error

401 The request requires user authentication.

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

The server understood the request, but is refusing to fulfill it.

Example:

```
"message": "Access Denied."
}
```

500 Unexpected internal error.

SupportNotLogIn:

```
{
  "errorCode": 3,
  "message": "Support account not log in."
}
```

AlreadyRegistered:

```
{
  "errorCode": 15,
  "message": "There is an internal SRS registered already."
}
```

```
IpFormatError:
```

```
{
  "errorCode": 6,
  "message": "IP format is not valid."
}
```

IpNotPingable:

```
{
  "errorCode": 7,
  "message": "External ESRS 10.62.85.1 cannot be connected. Please check
if the SRS VE is powered on or if there is any network problem."
}
```

SiteIdError:

```
{
  "errorCode": 13,
  "message": "The Site ID is not in the accepted range."
}
```

DeviceNotSupport:

```
{
  "errorCode": 14,
  "message": "Failed to register VxRail to SRS. Please check that VxRail
is in the support list."
}
```

POST /v1/callhome/internal/upgrade

Upgrades the internal SRS software.

URL

https://<VxRail IP address>/rest/vxm/v1/callhome/internal/upgrade

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Supported in 4.7.510 and later	
VxRail Software 7.0.x	Not supported	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameters SRSUpgradeSpec: (Required) Parameters for activating a software upgrade on the internal SRS server

Parameter	Туре	Description
admin_pwd	string	(Required) Administrator password for accessing the internal SRS server
root_pwd	string	(Required) Root password for accessing the internal SRS server

```
{
  "admin_pwd": "TestSrs123!",
  "root_pwd": "TestSrs123!"
}
```

Response

202 The request has been accepted for processing.

Parameter	Туре	Description
request_id	string	ID message about the accepted request

Example:

```
{
   "request_id": "SRS_requst_001"
}
```

The request could not be understood by the server due to malformed syntax.

Parameter	Туре	Description
error_code	integer	Associated error code
message	string	Detailed message about the error

401 The request requires user authentication.

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

The server understood the request, but is refusing to fulfill it.

Example:

```
{
   "message": "Access Denied."
}
```

409 Conflict request.

```
{
  "errorCode": 22,
  "message": "SRS upgrade is already running."
}
```

Unexpected internal error.

InvalidAdminPassword:

```
{
  "errorCode": 11,
  "message": "Invalid admin account's password. Please refer to ESRS
password specification and try again."
}
```

AlreadyRegistered:

```
{
  "errorCode": 16,
  "message": "There was an external ESRS registered already."
}
```

IpFormatError:

```
{
  "errorCode": 6,
  "message": "IP format is not valid."
}
```

IpNetworkAddress:

```
{
  "errorCode": 9,
  "message": "Network IP address is not supported."
}
```

IpBroadcastAddress:

```
"errorCode": 10,
   "message": "Broadcast IP address is not supported."
}
```

IpPingableError:

```
{
  "errorCode": 8,
  "message": "This IP is not available, please try another one."
}
```

MandatoryAttrsMissing:

```
{
  "errorCode": 17,
  "message": "Mandatory attributes missing. Please check if the
mandatory attributes of the request provided."
}
```

DELETE /v1/callhome/disable

Unregisters the call home servers and deletes the SRS VE virtual machine if it exists.

URL

```
https://<VxRail IP address>/rest/vxm/v1/callhome/disable
```

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.3xx and later	
VxRail Software 4.7.x	Supported in 4.7.0xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization

(Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

200

Operation successful.

401

Unauthorized request.

UnauthorizedRequestInfo:

Example:

```
{
  "message": "The provided vCenter credentials are not valid."
}
```

403

Forbidden request.

ForbiddenRequestInfo

Example:

```
{
   "message": "Access Denied."
}
```

500

Internal server error.

GET /v1/telemetry/tier

Retrieves the currently set telemetry tier.

URL

https://<VxRail IP address>/rest/vxm/v1/telemetry/tier

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.3xx and later	
VxRail Software 4.7.x	Supported in 4.7.3xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization

(Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

200

Successful operation.

TelemetryTierConfigResponseBean

Example:

```
{
  "level": "BASIC"
}
```

400

Bad request.

401

Unauthorized request.

UnauthorizedRequestInfo

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403

Forbidden request.

ForbiddenRequestInfo

Example:

```
{
   "message": "Access Denied."
}
```

500

Internal server error.

InternalServerErrorInfo

```
{
description: Internal server error.
errorCode integer($int32)
message string
}
```

Example:

```
{
  "errorCode": 0,
  "message": "string"
}
```

POST /v1/telemetry/tier

Sets the telemetry tier.

URL

```
https://<VxRail IP address>/rest/vxm/v1/telemetry/tier
```

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.3xx and later	
VxRail Software 4.7.x	Supported in 4.7.3xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization

(Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHN1c2FtZQ==

Body parameters

TelemetryTierConfigRequest: (Required) The telemetry tier level to be set.

```
{
description: telemetry level to be set.
level string
telemetry level to be set.
Enum: LIGHT, BASIC, ADVANCED, NONE
}
```

Example:

```
{
   "level": "LIGHT"
}
```

Response

200

Successful operation.

400

Bad request.

401

Unauthorized request.

UnauthorizedRequestInfo:

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403

Forbidden request.

ForbiddenRequestInfo:

Example:

```
{
   "message": "Access Denied."
}
```

500

Internal server error.

InternalServerErrorInfo:

```
{
description: Internal server error.
errorCode integer($int32)
message string
}
```

Example:

```
{
  "errorCode": 0,
  "message": "string"
}
```

GET /v1/requests

Queries all of the requests.

URL

https://<VxRail IP address>/rest/vxm/v1/requests

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.3xx and later	
VxRail Software 4.7.x	Supported in 4.7.0xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

 $\begin{tabular}{ll} \textbf{Query parameter} & \texttt{Sfilter: Optional query conditions for requests.} \end{tabular}$

The following operators are supported: equal (eq), in (in), not equal (ne), greater than (gt), less than (lt), greater or equal to (ge), less or equal to (le) on the following fields: id, state, owner, target, step.

Example:

```
$filter=owner eq 'LOG_BUNDLE' and state in ('COMPLETED', 'IN_PROGRESS')
```

Response

200 Successful operation.

Parameter	Туре	Description
id	string	Asynchronous (long-running) requests return a request_id which can be used to retrieve the status of execution.
owner	string	The owner of the request, which is typically the user who issued the original request
state	string	The current state of the execution
		Supported values include IN_PROGRESS, COMPLETED, and FAILED.
error	string	The error message if the execution state is ERROR
progress	integer	The progress of the current execution, ranging 0–100
start_time	integer	The start time of the current execution
end_time	integer	The end time of the current execution
target	string	The target of the current execution
step	string	The current step if the original request has been separated into multiple steps
detail	string	The detailed status of a specific application
extension	string	Application-specific status information

```
"id": "string",
"owner": "string",
"state": "IN_PROGRESS",
"error": "string",
"progress": 0,
"start_time": 0,
"end_time": 0,
"target": "string",
"step": "string",
"detail": "string",
"extension": "string"
```

401 Username or password is not recognized.

403 The user is not allowed due to insufficient privilege.

500 Unexpected internal server error.

GET /v1/requests/<requestID>

Retrieves the operation status and progress report of the specified request.

URL

https://<VxRail IP address>/rest/vxm/v1/requests/<requestID>

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.3xx and later	
VxRail Software 4.7.x	Supported in 4.7.0xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Path parameter requestID: (Required) The request ID of any long running operation.

Response

200 Successful operation.

Parameter	Туре	Description	
id	string	Asynchronous (long-running) requests return a request_id which can be used to retrieve the status of execution.	
owner	string	The owner of the request, which is typically the user who issued the original request	
state	string	The current state of the execution	
		Supported values include IN_PROGRESS, COMPLETED, and FAILED.	
error	string	The error message if the execution state is ERROR	
progress	integer	The progress of the current execution, ranging 0–100	
start_time	integer	The start time of the current execution	
end_time	integer	The end time of the current execution	
target	string	The target of the current execution	
step	string	The current step if the original request has been separated into multiple steps	
detail	string	The detailed status of a specific application	
extension	string	Application-specific status information	

```
"id": "string",
"owner": "string",
"state": "IN_PROGRESS",
"error": "string",
"progress": 0,
"start_time": 0,
"end_time": 0,
"target": "string",
"step": "string",
"detail": "string",
```

"extension": "string"
}

401 Username or password is not recognized.

The user is not allowed due to insufficient privilege.

404 The provided ID was not found.

500 Unexpected internal server error.

GET /v1/system/internet-mode

Retrieves VxRail Manager system network status.

URL

https://<VxRail IP address>/rest/vxm/v1/system/internet-mode

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.3xx and later	
VxRail Software 4.7.x	Supported in 4.7.0xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

200 Successful operation.

Parameter	Туре	Description
is_dark_site	boolean	Whether the system network is a dark site

Example:

```
{
  "is_dark_site": false
}
```

401 Username or password is not recognized.

The user is not allowed due to insufficient privilege.

500 Unexpected internal server error.

PUT /v1/system/internet-mode

Updates the VxRail Manager system network parameters.

URL

https://<VxRail IP address>/rest/vxm/v1/system/internet-mode

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.3xx and later	
VxRail Software 4.7.x	Supported in 4.7.0xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameters DarkSiteSettingsSpec: (Required) Whether the system network is a dark site or not.

Parameter	Туре	Description
is_dark_site	boolean	Whether the system network is a dark site

Example:

```
{
  "is_dark_site": false
}
```

Response

200 Successful operation.

400 Invalid request parameters.

401 Username or password is not recognized.

The user is not allowed due to insufficient privilege.

500 Unexpected internal server error.

GET /v1/system/proxy

Retrieves the VxRail Manager system proxy settings.

URL

https://<VxRail IP address>/rest/vxm/v1/system/proxy

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x Supported in 4.5.3xx and later		
VxRail Software 4.7.x	Supported in 4.7.0xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization

(Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

200

Successful operation.

Parameter	Туре	Description
server	string	IP address or host name of the proxy server
port	integer	Port of the proxy server
username	string	Username for the proxy server
type	string	Type of proxy server
		Supported types are HTTP and SOCKS
socks_version	integer	Version of the Socks proxy server. This parameter is provided if the proxy type is SOCKS.

Example:

```
"server": "192.168.106.108",
  "port": 3128,
  "username": "",
  "type": "SOCKS",
  "socks_version": 5
}
```

401

Username or password is not recognized.

404 Resource not found.

```
{
   "message": "Could not find proxy settings."
}
```

The user is not allowed due to insufficient privilege.

500 Unexpected internal server error.

NetworkTimeout:

Network connection timed out.

General Description:

Unexpected internal server error.

POST /v1/system/proxy

Enables VxRail Manager system proxy settings.

URL

https://<VxRail IP address>/rest/vxm/v1/system/proxy

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.3xx and later	
VxRail Software 4.7.x	Supported in 4.7.0xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameters ProxySettingsSpec: (Required) Configurable parameters for the proxy server.

Parameter	Туре	Description	
esrs_pwd	string	Password for the Secure Remote Services	
		If internal SRS is enabled, the password is required.	
proxy_spec	object	Settings for the proxy server	
		<pre>proxy_spec objects contain the following: server (string): IP address or hostname of the proxy server (Required) port (integer): Port of the proxy server (Required)</pre>	

Parameter	Туре	Description	
		• type (string): Type of proxy server (Required) Supported types are HTTP and SOCKS	
		 socks_version (integer): Version of the Socks proxy server. This parameter is required if the proxy type is SOCKS. username (string): Username of the proxy server pwd (string): Password of the proxy server 	

```
"esrs_pwd": "string",
"proxy_spec": {
    "port": 3128,
    "pwd": "string",
    "server": "192.168.106.108",
    "socks_version": 5,
    "type": "SOCKS",
    "username": "string"
}
```

Response

200 Successful operation.

400 Invalid request parameters.

IncorrectProxyFormat :

```
{
  "message": "Proxy settings are not correct. Proxy server and port are
mandatory and username and password are optional."
}
```

401 Username or password is not recognized.

The user is not allowed due to insufficient privilege.

500 Unexpected internal server error.

NetworkTimeout :

```
Network connection timed out.
```

General Description:

```
Unexpected internal server error.
```

ServerCannotConnect :

```
{
  "message": "The proxy server provided cannot be connected to."
}
```

Socks4NotSupportDNS:

```
{
  "message": "Proxy SOCKS4 does not support DNS resolving, please
configure your upstream DNS server."
}
```

ProxyCannotSetWithEnabledProxy :

```
{
  "message": "Set proxy failed. There is already enabled proxy, please
use update instead."
}
```

PATCH /v1/system/proxy

Updates VxRail Manager system proxy settings.

URL

https://<VxRail IP address>/rest/vxm/v1/system/proxy

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.3xx and later	
VxRail Software 4.7.x	Supported in 4.7.0xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameters ProxySettingsSpec: (Required) Configurable parameters for the proxy server.

Parameter	Туре	Description	
esrs_pwd	string	Password for the Secure Remote Services If internal SRS is enabled, the password is required.	
proxy_spec	object	If internal SRS is enabled, the password is required. Settings for the proxy server proxy_spec objects contain the following: • server (string): IP address or hostname of the proxy server (Required) • port (integer): Port of the proxy server (Required) • type (string): Type of proxy server (Required) Supported types are HTTP and SOCKS	

Parameter	Туре	Description	
		 socks_version (integer): Version of the Socks proxy server. This parameter is required if the proxy type is SOCKS. username (string): Username of the proxy server pwd (string): Password of the proxy server 	

```
"esrs_pwd": "string",
"proxy_spec": {
    "port": 3128,
    "pwd": "string",
    "server": "192.168.106.108",
    "socks_version": 5,
    "type": "SOCKS",
    "username": "string"
}
```

Response

200 Successful operation.

400 Invalid request parameters.

401 Username/password is not recognized.

The user is not allowed due to insufficient privilege.

500 Unexpected internal server error.

NetworkTimeout :

Network connection timed out.

General Description:

Unexpected internal server error.

ServerCannotConnect :

```
{
   "message": "The proxy server provided cannot be connected to."
}
```

Socks4NotSupportDNS:

```
{
   "message": "Proxy SOCKS4 does not support DNS resolving, please
configure your upstream DNS server."
}
```

ProxyCannotSetWithEnabledProxy :

```
{
   "message": "Set proxy failed. There is already enabled proxy, please
use update instead."
}
```

DELETE /v1/system/proxy

Disables VxRail Manager system proxy settings.

URL

https://<VxRail IP address>/rest/vxm/v1/system/proxy

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.3xx and later	
VxRail Software 4.7.x	Supported in 4.7.0xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Parameter	Туре	Description	
esrs_pwd	string	Password for the Secure Remote Services	

Example:

```
{
  "esrs_pwd": "string"
}
```

Response

200 Successful operation.

401 Username/password is not recognized.

The user is not allowed due to insufficient privilege.

500 Unexpected internal server error.

NetworkTimeout :

Network connection timed out.

General Description:

Unexpected internal server error.

POST /v1/system/validate-credential

Validates the supplied user credentials.

URL

https://<VxRail IP address>/rest/vxm/v1/system/validate-credential

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Supported in 4.7.1xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

 $\textbf{Body parameters} \quad \texttt{credentialSpec:} \ (\textbf{Required}) \ \textbf{Credentials input for validation}.$

Parameter	Туре	Description
vcenter	object	Information regarding credentials for vCenter
		See vxcenter VcenterSpec description below.
hosts	[object]	Information regarding credentials and serial numbers for a list of ESXi hosts
		See hosts EsxiHostCredentialSpec description below.

```
"username": "string"
}
}
```

 $\verb|vcenter VcenterCredentialSpec object: The access information for \verb|vCenter|.|$

Property	Туре	Description
vc_admin_user	ApplianceUser object	Credentials for the vCenter administrator
		ApplianceUser contains user account credentials:
		username (string) (Required)password (string) (Required)
vcsa_root_user	ApplianceUser object	Credentials for the vCenter Server Appliance (VCSA) root user
		ApplianceUser contains user account credentials:
		• username (string) (Required)
		• password(string)(Required)
psc_root_user	ApplianceUser object	Credentials for the Platform Services Controller (PSC) root user
		ApplianceUser contains user account credentials:
		username (string) (Required)password (string) (Required)

 $[\verb|hosts|] \verb| EsxiHostCredentialSpec| object: The access information for the ESXi hosts.$

Property	Туре	Description
root_user	ApplianceUser object	(Required) Credentials for the ESXi host
	object	ApplianceUser contains user account credentials: • username (string) (Required) • password (string) (Required)
sn	string	(Required) Serial number of the ESXi host

Response

200 Operation successful.

400 Invalid request parameters.

401 Unauthorized request.

403 Forbidden request.

500 Unexpected internal server error.

```
[
    "errorCode": 1016,
    "message": "Invalid credential for vc root account."
},
{
    "errorCode": 1048,
```

```
"message": "VCSA root credential verification not supported for
external vCenter."
 },
    "errorCode": 1049,
    "message": "VCSA PSC root credential verification not supported for
external vCenter."
 },
    "errorCode": 1050,
    "message": "Not implemented"
```

POST /v1/system/update-credential

Updates the vCenter and ESXi hosts management user passwords that are stored in VxRail Manager.

URL

https://<VxRail IP address>/rest/vxm/v1/system/update-credential

Version support

VxRail Software Supported versions	
VxRail Software 4.5.x	Supported in 4.5.4xx and later
VxRail Software 4.7.x	Supported in 4.7.2xx and later
VxRail Software 7.0.x	Supported in 7.0.000 and later

Request

Authorization

(Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameters AccountCredentialSpec: (Required) [AccountCredentialSpec]: An array of management account specifications for updating passwords (body)

Property	Туре	Description
component	string	Name of the component to be updated
		Supported components are psc and esxi
hostname	string	Hostname of the component
username	string	Username for the component
password	string	Password for the component

```
[
    "component": "psc",
```

```
"hostname": "exvc113.externalvc.com",
   "username": "string",
   "password": "string"
}
```

Response

200 Operation successful.

400 Invalid request parameters.

401 Unauthorized request.

403 Forbidden request.

500 Unexpected internal server error.

Example:

```
[
    "component": "psc",
    "hostname": "exvc113.externalvc.com",
    "status": "Success"
},
    "component": "esxi",
    "hostname": "dellb08237-01.externalvc.com",
    "status": "Failed",
    "message": "Failed to update the password in VxRail Manager database."
}
]
```

POST /v2/system/update-credential

Updates the vCenter and ESXi hosts management user passwords that are stored in VxRail Manager (version 2).

URL

```
https://<VxRail IP address>/rest/vxm/v2/system/update-credential
```

Version support

VxRail Software Supported versions	
VxRail Software 4.5.x	Not supported
VxRail Software 4.7.x	Not supported
VxRail Software 7.0.x	Supported in 7.0.010 and later

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHN1c2FtZQ==

Body parameters AccountCredentialSpec: (Required) [AccountCredentialSpec]: An array of management account specifications for updating passwords (body)

Property	Туре	Description
component	string	Name of the component to be updated
		Supported components are vc and esxi
hostname	string	Hostname of the component
username	string	Username for the component
password	string	Password for the component

Example:

```
[
         "component": "vc",
"hostname": "exvc113.externalvc.com",
"username": "string",
"password": "string"
]
```

Response

200 Operation successful.

400 Invalid request parameters.

401 Unauthorized request.

Forbidden request. 403

500 Unexpected internal server error.

```
[
      "component": "vc",
"hostname": "exvc113.externalvc.com",
       "status": "Success"
   },
      "component": "esxi",
"hostname": "dellb08237-01.externalvc.com",
"status": "Failed",
"message": "Failed to update the password in VxRail Manager
database."
]
```

GET /v1/system/available-hosts

Retrieves information about hosts in the VxRail cluster discovered via IPv6 multicast (loudmouth) but not configured into the cluster yet.

URL

https://<VxRail IP address>/rest/vxm/v1/system/available-hosts

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.3xx and later	
VxRail Software 4.7.x	Supported in 4.7.0xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization

(Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Query parameters

\$filter: Query conditions for searching for the host.

Supported fields:

- id
- appliance_id
- slot
- model
- is_primary_node
- bios_uuid
- cluster_affinity

Supported operators:

- eq: equal
- ne: not equal

Example:

\$filter=id eq VXRAILVIP470F2-01-01 and slot ne 2

Response

200

Operation successful.

```
[
    "id": "VXRAILVIP470F2-01-01",
    "appliance_id": "VXRAILVIP470F2",
    "slot": 1,
    "model": "VxRail P470F",
```

```
"is_primary_node": false,
"ip_set": {},
"discovered_date": 1533460206,
"cluster_affinity": false,
"bios_uuid": "420e8b96-4602-9d96-35b9-906808c40985"
},
{
    "id": "VXRAILVIP470F1-01-01",
    "appliance_id": "VXRAILVIP470F3",
    "slot": 1,
    "model": "VxRail P470F",
    "is_primary_node": true,
    "ip_set": {},
    "discovered_date": 1533460206,
    "cluster_affinity": false,
    "bios_uuid": "420ecd88-86ef-f775-f4d8-a101540bb5c4"
}
```

401 Unauthorized request.

403 Forbidden request.

404 Host not found.

500 Unexpected internal server error.

GET /v1/system/cluster-hosts

Retrieves information on configured hosts in the VxRail cluster.

URL

 $\verb|https://<VxRail IP address>/rest/vxm/v1/system/cluster-hosts|\\$

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.3xx and later	
VxRail Software 4.7.x	Supported in 4.7.0xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Query parameters

\$filter: Query conditions for searching for the host

Supported fields:

- id
- host_name
- appliance_id

- slot
- model
- is_primary_node
- bios_uuid
- cluster_affinity

Supported operators:

- eq: equal
- ne: not equal

Example:

 $filter=id\ eq\ VXRAILVIP470F2-01-01\ and\ slot\ ne\ 2$

Response

200 Operation successful.

Parameter	Туре	Description
appliance_id	string	Appliance ID of the VxRail host
bios_uuid	string	UUID number of the VxRail host
cluster_affinity	boolean	Whether the host is installed in the current cluster
discovered_date	integer	The time that the host was discovered by VxRail Manager
health	string	Health status of the VxRail host
		Supported values are Critical, Error, Warning, and Healthy.
host_name	string	Hostname of the VxRail host i NOTE: The return value for host_name is always all lowercase, regardless of the capitalization used when the parameter was originally set.
id	string	A concatenation of the appliance_id, number of nodes, and node position.
		id=appliance_id + number of total supported nodes in a chassis + node position
ip_set	[object]	Information about IP addresses on the VxRail host
		The ip_set object contains the following properties: • management_ip (string): Management IP address of the host • vmotion_ip (string): vMotion IP address of the host
		 vsan_ip (string): vSAN IP address of the host
is_primary_node	boolean	Whether the host is the primary node
led_status	string	State of the chassis LED indicator for the host
manufacturer	string	Manufacturer of the host
missing	boolean	Whether the chassis health status is critical. Supported values are false (not critical) and true (critical)
model	string	Model number of the host

Parameter	Туре	Description
operational_status	string	Operational status of the host
power_status	string	Power supply status of the host
psnt	string	Product serial number tag (PSNT) of the host
serial_number	string	Serial number of the host
slot	integer	Rack slot position where the VxRail host appliance is installed
tpm_present	boolean	Whether a TPM security device is installed on the VxRail host

```
"id": "VXRAILVIP470F2-01-01",
    "serial_number": "9HHNHL2", "psnt": "9HHNHL20000000",
     "host_name": "delle09156-01.localdomain.local",
     "appliance_id": "VXRAILVIP470F2",
     "slot": 1,
     "manufacturer": "Dell Inc.",
     "model": "VxRail P470F",
     "operational_status": "powering_off",
     "health": "Error",
     "power_status": "on",
"led_status": "Blue:On",
     "tpm_present": false,
    "management_ip": "192.168.106.182",
"vsan_ip": "192.168.113.182",
       "vmotion ip": "192.168.123.182"
     },
"discovered_date": 1533460206,
     "cluster affinity": true,
     "bios_uuid": "420e8b96-4602-9d96-35b9-906808c40985"
    "id": "VXRAILVIP470F1-01-01",
"serial_number": "9HHNHL3",
"psnt": "9HHNHL30000000",
     "host_name": "delle09156-02.localdomain.local",
     "appliance_id": "VXRAILVIP470F3",
     "slot": 1,
     "manufacturer": "Dell Inc.",
     "model": "VxRail P470F",
     "operational_status": "powering_off",
     "health": "Error",
    "power_status": "on",
"led_status": "Blue:On",
"tpm_present": false,
     "is_primary_node": true,
"missing": false,
     "ip_set": {
       "management_ip": "192.168.106.183",
"vsan_ip": "192.168.113.183",
"vmotion_ip": "192.168.123.183"
     "discovered_date": 1533460206,
"cluster_affinity": true,
     "bios_uuid": "420ecd88-86ef-f775-f4d8-a101540bb5c4"
]
```

401 Unauthorized request.

403 Forbidden request.

404 Host not found.

500 Unexpected internal server error.

POST /v1/system/primary-storage

Provisions and finalizes a dynamic node cluster, such as moving VxRail Manager virtual machine to the target shared storage, enabling high availability (HA) and distributed resource scheduler (DRS) service on the cluster, and enabling post-installation functions.

URL

https://<VxRail IP address>/rest/vxm/v1/system/primary-storage

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.240 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameters PrimaryStorageSpec: (Required) Information to provision a dynamic node cluster.

Parameter	Туре	Description
primary_storage _type	string	(Optional) Primary storage type that is mounted on the dynamic node cluster Supported values are VSAN_HCI_MESH and EXTERNAL.
primary_storage _name	string	(Required) Name of primary storage device to where VxRail Manager will be migrated
storage_policy_ profile_name	string	The storage policy that will be applied to VxRail Manager

```
{
   "primary_storage_type": "VSAN_HCI_MESH","EXTERNAL"
   "primary_storage_name": "string",
   "storage_policy_profile_name": "string"
}
```

Response

200 Operation successful.

400 Invalid request parameters.

401 Unauthorized request.

403 Forbidden request.

500 Unexpected internal server error.

GET /v1/system/prechecks/precheck-service-version

Gets the current version of the pre-check service in the VxRail system.

URL

https://<VxRail IP address>/rest/vxm/v1/system/prechecks/precheck-service-version

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.240 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

200 Operation successful. Returns the pre-check version.

Parameter	Туре	Description
version	string	Pre-check version

Example:

```
{
  "version": "1.0.600"
}
```

401 Unauthorized request.

403 Forbidden request.

GET /v1/system/prechecks/profiles

Gets a list of available pre-check profiles. Each profile represents a different type of pre-check that you can perform.

URL

https://<VxRail IP address>/rest/vxm/v1/system/prechecks/profiles

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.240 and later	

Request

Authorization

(Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

200

Operation successful. Returns the list of pre-check profiles.

Parameter	Туре	Description
profile	string	Type of profile
		Supported values include PRE_UPGRADE, PROACTIVE_HEALTH, NODE_EXPANSION
description	string	Description of the profile usage

Example:

401 Unauthorized request.

403 Forbidden request.

500 Failed with internal errors.

POST /v1/system/precheck

Perform a system pre-check.

URL

https://<VxRail IP address>/rest/vxm/v1/system/precheck

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.240 and later	

Request

Authorization

(Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHN1c2FtZQ==

Body parameters DNSInfoSpec: (Required) Information to set the DNS servers for the cluster.

The list of required properties is dependent on which type of pre-check you are performing:

- PROACTIVE_HEALTH:
 - \circ Only requires the profile: PROACTIVE_HEALTH property.
- NODE_EXPANSION:
 - \circ Requires the profile and node_list properties.
- PRE_UPGRADE:
 - \circ Requires the profile, vxm_root_user, vc_admin_user, and vc_root_user properties.
 - o Requires witness spec only if you need to upgrade a witness node.
 - Requires migration spec only if you are checking a major vCenter upgrade.

Property	Туре	Description
profile	string	(Required) Profile name, which defines what type of pre- check you are performing
		Supported values include PROACTIVE_HEALTH, NODE_EXPANSION, or PRE_UPGRADE.
vxm_root_user	object	(Required) Credentials for the user account.
		Only used for a PRE_UPGRADE pre-check.
		The UserSpec object contains:
		username (string): Username of the accountpassword (string): Password of the account
vc_admin_user	object	Credentials for vCenter Admin user.
		Only used for a PRE_UPGRADE pre-check.
		The UserSpec object contains:
		• username (string)

Property	Туре	Description
		password (string)
vc_root_user	object	Credentials for vCenter Server Appliance root user. Required if the upgrade bundle contains vCenter component.
		Only used for a PRE_UPGRADE pre-check.
		The UserSpec object contains:
		• username (string)
		password (string)
witness_spec	object	Information regarding the witness node for a stretched cluster, including a vSAN 2-node cluster.
		Optionally used for a PRE_UPGRADE pre-check.
		The witness_spec object contains the following properties:
		 auto_witness_upgrade (boolean): Automatically upgrade the witness node
		• witness_root_user(object)
		o username (string)
		o password(string)
migration_spec	object	Information for vCenter migration-based upgrades.
		Optionally used for a PRE_UPGRADE pre-check.
		 For major vCenter upgrades, this property must be provided.
		 For minor vCenter upgrades (for example v7.0 U1 to v7.0 U2), this property must be null.
		<pre>temporary_ip_setting: object contains temporary IP settings for the vCenter upgrade (Required):</pre>
		 vc_temporary_ip (string): Temporary IP to be used during the vCenter upgrade
		 vc_temporary_gateway (string): Gateway to be used during the vCenter upgrade
		vc_temporary_netmask (string): Netmask to be used during the vCenter upgrade
node_list	[object]	Information about the new node to be added.
		Only used for a NODE_EXPANSION pre-check.
		The node_list object contains the following properties:
		• sn (string): Serial number of the node
		version (string): Installation version of the nodeip (string): IP address for the node
		root_user (string): Root username
		root_password (string): Root password

```
"profile": "PRE_UPGRADE",
"vxm_root_user": {
    "username": "string",
    "password": "string"
},
"vc_admin_user": {
```

```
"username": "string",
     "password": "string"
  "username": "string",
"password": "string"
  "witness_spec": {
     "auto witness upgrade": true,
     "witness_root_user": {
    "username": "string",
    "password": "string"
  "migration spec": {
     "temporary_ip_setting": {
       "vc_temporary_ip": "string",
       "vc_temporary_gateway": "string",
"vc_temporary_netmask": "string"
    }
  "node_list": [
       "sn": "string",
       "version": "string",
       "ip": "string",
"root_user": "root",
       "root_password": "string"
  ]
}
```

Response

The request has been accepted for processing, but the processing has not been completed. A request id will be returned and can be used to check the status of the processing.

400 Invalid request parameters.

401 Unauthorized request.

403 Forbidden request.

500 Unexpected internal server error.

GET /v1/system/prechecks/results

Gets a list of pre-check reports, which include the current running status and historical results.

URL

https://<VxRail IP address>/rest/vxm/v1/system/prechecks/results

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	

VxRail Software	Supported versions	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.240 and later	

Request

Authorization

(Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

200

Operation successful. Returns the list of pre-check reports, [report_list].

Parameter	Туре	Description
id	string	Request ID (request_id) from the pre-check operation
profile	string	Type of profile
		Supported values include PRE_UPGRADE, PROACTIVE_HEALTH, NODE_EXPANSION
status	string	Pre-check status
		Supported values include IN-PROGRESS, COMPLETED
progress	string	Pre-check progress, provided as a percentage
total_severity	string	Severity level of the pre-check status
		Supported values include OK, WARN, ERROR, or CRITICAL
complete_check_ count	integer	Number of pre-check tasks completed
total_success_c ount	integer	Number of pre-check tasks successfully completed
total_warn_coun t	integer	Number of pre-check tasks completed with warnings
total_error_cou nt	integer	Number of pre-check tasks completed with errors
results	object	This object provides result information
		See the table containing PrecheckReportItem schema after the example for property descriptions

```
"report_list": [
    "id": "ba8901c1-913b-4a2b-9b62-d358bcc2ed47",
    "profile": "string",
    "status": "IN-PROGRESS [IN-PROGRESS,COMPLETED]",
    "progress": "50%",
    "total_severity": "OK [OK, WARN, ERROR, CRITICAL]",
    "complete_check_count": 25,
    "total_success_count": 22,
    "total_warn_count": 0,
```

```
"total_error_count": 3,
       "results": {
         "host_checks": [
              "host_id": "c2-esx01",
"checks": [
                   "status": "COMPLETED",
                   "check_id": "vcsa_state_check",
"start_time": "string",
                   "end_time": "string",
                   "plugin_name": "string"
                   "plugin_version": "1.0.100",
"result": {
                     "severity": "OK [OK, WARN, ERROR, CRITICAL]",
                      "messages": [
                          "kb": "string",
"action": "Ensure there are not critical alarms
existing on VCSA.",
                          "alphaid": "check_script_failed",
                          "symptom": "There are critical alarms existing on
VCSA.",
                          "severity": "Error [Ok, Warn, Error, Critical]"
                     ]
                  }
                }
              ]
           }
         ],
"general_checks": [
              "status": "COMPLETED",
              "check_id": "vcsa_state_check",
              "start_time": "string",
"end_time": "string",
              "plugin_name": "string",
"plugin_version": "1.0.100",
"result": {
                 "severity": "OK [OK, WARN, ERROR, CRITICAL]",
                 "messages": [
                   {
                     "kb": "string",
                     "action": "Ensure there are not critical alarms
existing on VCSA.",

"alphaid": "check_script_failed",
"There are critical al
                     "symptom": "There are critical alarms existing on
VCSA.",
                     "severity": "Error [Ok, Warn, Error, Critical]"
              }
           }
        ]
      }
    }
  ]
```

The ${\tt PrecheckReportItem}$ schema includes the following properties:

Parameter	Туре	Description
host_checks	[object]	A list of pre-check results for the host.
		The host_checks object contains the following properties: • host_id (string): ESXi host name • checks ([object]): The checks object contains the following properties:

Parameter	Туре	Description
		 status (string): Execution status of the plugin check check_id (string): ID value for the check start_time (string): Start time of the plugin task end_time (string): End time of the plugin task plugin_name (string): Name of the plugin task plugin_version (string): Version of the plugin check result (object): The result object contains the following properties severity (string): Severity of the message messages ([object]): The messages object contains the following properties kb (string): Number of the knowledge base article that provides more information action (string): Suggested action to take alphaid (string): Alphaid symptom (string): Description of the response symptom severity (string): Severity of the response. Supported values include Ok, Warn, Error, Critical
general_checks	[object]	A list of general pre-check results. The general_checks object contains the following properties: status (string): Execution status of the plugin check check_id (string): ID value for the check start_time (string): Start time of the plugin task end_time (string): End time of the plugin task plugin_name (string): Name of the plugin task plugin_version (string): Version of the plugin check result (object): The result object contains the following properties severity (string): Severity of the message messages ([object]): The messages object contains the following properties kb (string): Number of the knowledge base article that provides more information action (string): Suggested action to take alphaid (string): Alphaid symptom (string): Description of the response symptom severity (string): Severity of the response. Supported values include Ok, Warn, Error, Critical

401 Unauthorized request.

403 Forbidden request.

500 Failed with internal errors.

GET /v1/system/prechecks/{id}/result

Gets a pre-check result using a specified request ID. Available reports include a status report from a currently running pre-check process or a report from previously run pre-check.

URL

https://<VxRail IP address>/rest/vxm/v1/system/prechecks/{id}/result

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.240 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHN1c2FtZQ==

Path parameters id: (Required) The request_id of the pre-check status that you want to query.

Parameter	Туре	Description
id	string	The request_id of the pre-check status that you want to query

Example:

ba8901c1-913b-4a2b-9b62-d358bcc2ed47

Query parameters

verbose: (boolean) Whether to return a full or simplified report. The default is true.

Set to true to return a full pre-check result report. Set to false for a simplified report.

Example:

\$verbose=false

Response

Operation successful. Returns the report_list object, which provides the results of the pre-check.

Parameter	Туре	Description
id	string	Request ID (request_id) from the pre-check operation
profile	string	Type of profile
		Supported values include PRE_UPGRADE, PROACTIVE_HEALTH, NODE_EXPANSION

Parameter	Туре	Description
status	string	Pre-check status
		Supported values include IN-PROGRESS, COMPLETED
progress	string	Pre-check progress, provided as a percentage
total_severity	string	Severity level of the pre-check status
		Supported values include OK, WARN, ERROR, or CRITICAL
complete_check_	integer	Number of pre-check tasks completed
total_success_c ount	integer	Number of pre-check tasks successfully completed
total_warn_coun t	integer	Number of pre-check tasks completed with warnings
total_error_cou nt	integer	Number of pre-check tasks completed with errors
results	object	This object provides result information
		See the table containing PrecheckReportItem schema after the example for property descriptions

Example:

```
"report_list": [
       "id": "ba8901c1-913b-4a2b-9b62-d358bcc2ed47",
       "profile": "string",
"status": "IN-PROGRESS [IN-PROGRESS, COMPLETED]",
       "progress": "50%",
"total_severity": "OK [OK, WARN, ERROR, CRITICAL]",
        "complete_check_count": 25,
       "total_success_count": 22,
"total_warn_count": 0,
       "total_error_count": 3,
        "results": {
          "host_checks": [
               "host_id": "c2-esx01",
               "checks": [
                  {
                     "status": "COMPLETED",
"check_id": "vcsa_state_check",
"start_time": "string",
"end_time": "string",
                     "plugin_name": "string",
"plugin_version": "1.0.100",
"result": {
                       "severity": "OK [OK, WARN, ERROR, CRITICAL]", "messages": [
                             "kb": "string",
                             "action": "Ensure there are not critical alarms
existing on VCSA.",
                             "alphaid": "check script failed",
                             "symptom": "There are critical alarms existing on
VCSA.",
                             "severity": "Error [Ok, Warn, Error, Critical]"
                       ]
```

```
],
"general_checks": [
                "status": "COMPLETED",
"check_id": "vcsa_state_check",
"start_time": "string",
"end_time": "string",
                "plugin_name": "string",
                "plugin_version": "1.0.100",
"result": {
                   "severity": "OK [OK, WARN, ERROR, CRITICAL]",
                   "messages": [
                     {
                        "kb": "string",
                        "action": "Ensure there are not critical alarms
existing on VCSA.",

"alphaid": "check_script_failed",

"symptom": "There are critical alarms existing on
                        "severity": "Error [Ok, Warn, Error, Critical]"
                  ]
               }
          ]
       }
     }
  ]
}
```

The ${\tt PrecheckReportItem}$ schema includes the following properties:

Parameter	Туре	Description
host_checks	[object]	A list of pre-check results for the host.
		The host_checks object contains the following properties: • host_id (string): ESXi host name • checks ([object]): The checks object contains the following properties: • status (string): Execution status of the plugin check of check_id (string): ID value for the check of start_time (string): Start time of the plugin task of end_time (string): End time of the plugin task of plugin_name (string): Name of the plugin task of plugin_version (string): Version of the plugin check of exault (object): The result object contains the following properties • severity (string): Severity of the message • messages ([object]): The messages object contains the following properties • kb (string): Number of the knowledge base article that provides more information • action (string): Suggested action to take • alphaid (string): Alphaid • symptom (string): Description of the response symptom • severity (string): Severity of the response. Supported values include Ok, Warn, Error, Critical
general_checks	[object]	A list of general pre-check results.

Parameter	Туре	Description
		The general_checks object contains the following properties: • status (string): Execution status of the plugin check • check_id (string): ID value for the check • start_time (string): Start time of the plugin task • end_time (string): End time of the plugin task • plugin_name (string): Name of the plugin task • plugin_version (string): Version of the plugin check • result (object): The result object contains the following properties • severity (string): Severity of the message • messages ([object]): The messages object contains the following properties • kb (string): Number of the knowledge base article that provides more information • action (string): Suggested action to take • alphaid (string): Alphaid • symptom (string): Description of the response symptom • severity (string): Severity of the response. Supported values include Ok, Warn, Error, Critical

401 Unauthorized request.

403 Forbidden request.

500 Failed with internal errors.

GET /v1/system/dns

Retrieves information about the DNS servers for the cluster.

URL

https://<VxRail IP address>/rest/vxm/v1/system/dns

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.200 and later	

Request

Authorization (Required) Username and password encoded with Base64

Response

200

Operation successful. Returns a list of DNS servers for the cluster

Parameter	Туре	Description
servers	[string]	A list of IP addresses for the DNS servers
is_internal	boolean	Whether the DNS server is integrated (internal) or external.
		If is_internal is true, only one IP address (the IP address for VxRail Manager) is returned for the servers parameter.

Example:

```
"servers": [
    "192.168.10.222",
    "8.8.8.8"
],
    "is_internal": false
}
```

401 Unauthorized request.

403 Forbidden request.

500 Failed with internal errors.

POST /v1/system/dns

Sets the DNS servers for the cluster.

URL

https://<VxRail IP address>/rest/vxm/v1/system/dns

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.200 and later	

Request

Authorization

(Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameters DNSInfoSpec: (Required) Information to set the DNS servers for the cluster.

Parameter	Туре	Description
components	string	Indicates if the new DNS servers are set for VxRail Manager or all.
		Supported values are ALL and VXM:
		The default is ALL. If ALL is set, all DNS servers in the cluster are replaced.
		If VXM is set, only the DNS server for VxRail Manager is replaced.
vcenter	object	(Required) Credentials for the vCenter Server. (i) NOTE: If components is set to ALL, you must provide the vCenter username and password.
		vcenter contains user account credentials:
		username (string) (Required)password (string) (Required)
servers	[string]	A list of IP addresses for the DNS servers
is_internal	boolean	Whether the DNS server is integrated (internal) or external
		If is_internal is true, the servers parameter must be one IP address (the IP address for VxRail Manager).

Response

200 Operation successful. Retrieves the list of DNS servers in the cluster.

Parameter	Туре	Description
servers	[string]	A list of IP addresses for the DNS servers
is_internal	boolean	Whether the DNS server is integrated (internal) or external
		If is_internal is true, the servers parameter returns one IP address (the IP address for VxRail Manager).

400 Invalid request parameters.

401 Unauthorized request.

403 Forbidden request.

500 Unexpected internal server error.

GET /v1/system/ntp

Retrieves information about the NTP servers for the cluster.

URL

https://<VxRail IP address>/rest/vxm/v1/system/ntp

Version support

VxRail Software	Supported versions
VxRail Software 4.5.x	Not supported
VxRail Software 4.7.x	Not supported
VxRail Software 7.0.x	Supported in 7.0.200 and later

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

200 Operation successful. Returns a list of NTP servers for the cluster.

Parameter	Туре	Description
servers	[string]	A list of IP addresses for the NTP servers

Example:

```
{
  "servers": [
    "172.16.1.167"
  ]
}
```

401 Unauthorized request.

403 Forbidden request.

500 Failed with internal errors.

POST /v1/system/ntp

Sets the NTP servers for the cluster.

URL

https://<VxRail IP address>/rest/vxm/v1/system/ntp

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.200 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameters DNSInfoSpec: (Required) Information to set the NTP servers for the cluster.

Parameter	Туре	Description
components	string	Indicates if the new NTP servers are set for VxRail Manager or all.
		Supported values are ALL and VXM:
		The default is ALL. If ALL is set, all NTP servers in the cluster are replaced.
		If VXM is set, only the NTP server for VxRail Manager is replaced.
vcenter	object	(Required) Credentials for the vCenter Server. (i) NOTE: If components is set to ALL, you must provide the vCenter username and password.
		vcenter contains user account credentials:
		username (string) (Required)password (string) (Required)
servers	[string]	A list of IP addresses for the NTP servers

Response

200 Operation successful. Retrieves the list of NTP servers in the cluster.

Parameter	Туре	Description
servers	[string]	A list of IP addresses for the NTP servers

400 Invalid request parameters.

401 Unauthorized request.

403 Forbidden request.

500 Unexpected internal server error.

POST /v1/certificates/import-vxm

Updates the VxRail Manager certificate.

URL

https://<VxRail IP address>/rest/vxm/v1/certificates/import-vxm

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Supported in 4.7.3xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameters VxMCertificate: (Required) The VxRail Manager certificate parameters to update

Parameter	Туре	Description
cert	string	(Required) The content of the new certificate in PEM format
primary_key	string	(Required) The contents of the private key in PEM format. Only an RSA private key is allowed
root_cert_chain	string	(Required) The contents of the certificate chain in PEM format. The root CA certificate comes first followed by the intermediate CA certificates if any
password	string	(Required) The password for the new .pfx file

Example:

```
"cert": "----BEGIN CERTIFICATE----...",
"primary_key": "----BEGIN ENCRYPTED PRIVATE KEY----.",
"root_cert_chain": "----BEGIN CERTIFICATE----...",
"password": "testPassword"
}
```

Response

200 Successful operation.

400 Bad request

BadRequestInfo:

Example:

```
{
  "errorCode": 40007,
  "message": "request parameters invalid."
}
```

401 Unauthorized request.

UnauthorizedRequestInfo:

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403 Forbidden request.

ForbiddenRequestInfo

Example:

```
{
   "message": "Access Denied."
}
```

500 Internal server error.

VxRail eServices

The VxRail API supports using eServices including accessing the knowledge base, accessing the community, opening service requests, and using support chat.

GET /v1/support/kb

Retrieves the VxRail Support Knowledge Base (KB) Home URL.

URL

https://<VxRail IP address>/rest/vxm/v1/support/kb

Version support

VxRail Software	Supported versions
VxRail Software 4.5.x	Supported in 4.5.2xx and later
VxRail Software 4.7.x	Supported in 4.7.0xx and later
VxRail Software 7.0.x	Supported in 7.0.000 and later

Request

Authorization

(Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

200

Operation successful.

```
{
  "homeURL": "https://support.emc.com/products/39970_VxRail-Appliance",
  "articlesLink": "/rest/vxm/v1/support/kb/articles"
}
```

401

Username/password is not recognized.

403

The user is not allowed due to insufficient privilege.

GET /v1/support/kb/articles

Queries articles from the VxRail Support knowledge base.

URL

https://<VxRail IP address>/rest/vxm/v1/support/kb/articles

Version support

VxRail Software	Supported versions
VxRail Software 4.5.x	Supported in 4.5.2xx and later
VxRail Software 4.7.x	Supported in 4.7.0xx and later
VxRail Software 7.0.x	Supported in 7.0.000 and later

Request

Authorization

(Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Query parameters

searchText: The content the user wants to search for.

limit: The number of articles the user wants to query.

- Type: integer
- Default: 3

Examples:

/support/kb/articles?searchText="VxRail"&limit=2

Response

200

Operation successful.

```
"id": "kalf1000000GBiEAAW",
   "title": "Some useful PSQL commands for the VxRail",
   "url": "https://support.emc.com/kb/479126",
   "author": null,
   "date": "19/11/2017",
   "products": "VxRail Appliance Series,VxRail Appliance Family",
   "audience": "Level 40 = Employees and Partners"
},

{
   "id": "ka2f1000000GBiEAAW",
   "title": "How to manually import vCenter SSL certificate into
VxRail",
   "url": "https://support.emc.com/kb/479127",
   "author": "Someone",
   "date": "20/11/2017",
   "products": "VxRail Appliance Series,VxRail Appliance Family",
   "audience": "Level 40 = Employees and Partners"
}
```

400

The size of the limit is less than 1.

InvalidLimit:

```
Invalid limit {0}.
```

401 Username/password is not recognized.

The user is not allowed due to insufficient privilege.

500 Failed with internal errors.

IncorrectSupportAccount:

```
{
   "message": "Invalid support account."
}
```

InvalidKBData:

```
{
  "message": "Unable to fetch or parse the articles data from
support.emc.com."
}
```

NetworkIssue:

```
{
   "message": "Network issue."
}
```

DarksiteForbidden:

This feature may be unavailable because $VxRail\ Manager$ is disconnected from the Internet.

GET /v1/support/community

Retrieves the VxRail community home URL

URL

https://<VxRail IP address>/rest/vxm/v1/support/community

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.2xx and later	
VxRail Software 4.7.x	Supported in 4.7.0xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64

Response

200 Operation successful.

```
{
  "homeURL": "https://community.emc.com/community/products/vxrail",
  "messagesLink": "/rest/vxm/v1/support/community/messages"
}
```

401 Username/password is not recognized.

The user is not allowed due to insufficient privilege.

GET /v1/support/community/messages

Retrieves VxRail community messages.

URL

https://<VxRail IP address>/rest/vxm/v1/support/community/messages

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.2xx and later	
VxRail Software 4.7.x	Supported in 4.7.0xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization

(Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Query parameters

 $\label{limit:The number of messages} \ \ \ the \ user \ wants \ to \ query.$

Type: integerDefault: 3Example:

/v1/support/community/messages?limit=3

Response

200 Operation successful.

```
"id": 242813,
    "type": "discussion",
"title": "VxRail 3.5 Installation Question",
     "url": "https://community.emc.com/thread/242813",
     "author": "benoitbernard-de",
     "date": "2017-11-27T14:03:07.659+0000",
     "tags": [
       "vxrail"
    "status": "published",
"viewCount": 78,
"replyCount": 1,
     "resolved": "open"
     "id": 242814,
    "type": "discussion",
"title": "VxRail 3.5 Installation Question",
     "url": "https://community.emc.com/thread/242813",
     "author": "benoitbernard-de",
"date": "2017-11-27T14:03:07.659+0000",
     "tags": [
       "vxrail"
     ],
"status": "published",
     "viewCount": 78,
"replyCount": 1,
     "resolved": "open"
]
```

400 The size of the limit is more than the number of the existing messages or less than 1.

InvalidLimit:

```
Invalid limit {0}.
```

401 Username/password is not recognized.

The user is not allowed due to insufficient privilege.

500 Failed with internal errors.

InvalidMessageData:

```
Unable to fetch or parse the messages data from community.emc.com
```

DarksiteForbidden:

```
This feature may be unavailable because VxRail Manager is disconnected from the Internet.
```

General Description:

```
Unexpected internal server error.
```

GET /v1/support/service-requests

Retrieves links for opening Service Requests (SRs). One link per node.

URL

https://<VxRail IP address>/rest/vxm/v1/support/service-requests

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.2xx and later	
VxRail Software 4.7.x	Supported in 4.7.0xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization

(Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

200

Operation successful.

401 Username or password is not recognized.

The user is not allowed due to insufficient privilege.

500 Unexpected internal server error.

GET /v1/support/chat-url

Get a link for online chat with Support.

URL

https://<VxRail IP address>/rest/vxm/v1/support/chat-url

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.2xx and later	
VxRail Software 4.7.x	Supported in 4.7.0xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHN1c2FtZQ==

Response

200 Operation successful.

{"url": "http://uemconnect.emc.com/servicecenter/liveChat.htm?

serialNo=EMCVB150600013&type=Support"}

401 Username/password is not recognized.

The user is not allowed due to insufficient privilege.

500 Unexpected internal server error.

VxRail support

The VxRail API supports features related to support, including setting the support account and generating and retrieving logs.

GET /v1/support/account

Retrieve the current Support account set in VxRail.

URL

https://<VxRail IP address>/rest/vxm/v1/support/account

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.2xx and later	
VxRail Software 4.7.x	Supported in 4.7.0xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

200 Operation successful.

```
{
  "username": "vxrail.test@emconlinesupport.com"
}
```

401 Username/password is not recognized.

The user is not allowed due to insufficient privilege.

404 The support account was not found.

500 Failed with internal errors.

NetworkTimeout:

Network connection timed out.

POST /v1/support/account

Add a support account to VxRail Manager.

URL

https://<VxRail IP address>/rest/vxm/v1/support/account

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.2xx and later	
VxRail Software 4.7.x	Supported in 4.7.0xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameters SupportAccountSpec: (Required) The username and password of the support account.

Property	Туре	Description
username	string	(Required) Username of the support account
password	string	(Required) Password of the support account

Example:

```
{
    "username": "string",
    "password": "string"
}
```

Response

200 Operation successful.

400 The provided support account credentials are not valid.

401 Username/password is not recognized.

The user is not allowed due to insufficient privilege.

500 Failed with internal errors.

NetworkTimeout:

Network connection timed out.

General Description:

Unexpected internal server error.

DarksiteForbidden:

This feature may be unavailable because $\ensuremath{\text{VxRail}}$ Manager is disconnected from the Internet.

PUT /v1/support/account

Change the Support account in VxRail.

URL

https://<VxRail IP address>/rest/vxm/v1/support/account

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.2xx and later	
VxRail Software 4.7.x	Supported in 4.7.0xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameters SupportAccountSpec: (Required) The username and password of the support account.

Property	Туре	Description
username	string	(Required) Username of the support account
password	string	(Required) Password of the support account

Example:

```
"username": "string",
    "password": "string"
}
```

Response

200 Operation successful.

400 The provided support account credentials are not valid.

401 Username/password is not recognized.

The user is not allowed due to insufficient privilege.

404 The support account was not found.

500 Failed with internal errors.

NetworkTimeout:

Network connection timed out.

General Description:

Unexpected internal server error.

DarksiteForbidden:

This feature may be unavailable because $VxRail\ Manager$ is disconnected from the Internet.

DELETE /v1/support/account

Remove a support account from VxRail Manger.

URL

https://<VxRail IP address>/rest/vxm/v1/support/account

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.2xx and later	
VxRail Software 4.7.x	Supported in 4.7.0xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

200 Operation successful.

401 Username/password is not recognized.

The user is not allowed due to insufficient privilege.

500 Failed with internal errors.

NetworkTimeout:

Network connection timed out.

General Description:

Unexpected internal server error.

DarksiteForbidden:

This feature may be unavailable because VxRail Manager is disconnected from the Internet.

GET /v1/support/contact

Retrieves the support contact information.

URL

https://<VxRail IP address>/rest/vxm/v1/support/contact

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Supported in 4.7.3xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization

(Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

200

Successful operation.

SupportContactInfo:

```
company
              string
           example: EMC CORP - PARTNER
email
              string
            example: vxrailtest@emconlinesupport.com
first_name
              string
            example: VxRail
              string
last_name
            example: Emc
           string
example: 1508435-1000
phone
site id
          [string]
```

```
example: ["12728283"]
}
```

Example:

```
"company": "EMC CORP - PARTNER",
"email": "vxrailtest@emconlinesupport.com",
"first_name": "VxRail",
"last_name": "Emc",
"phone": "1508435-1000",
"site_id": ["12728783"]
}
```

400 Bad request

401 Unauthorized request.

UnauthorizedRequestInfo:

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403 Forbidden request.

ForbiddenRequestInfo:

Example:

```
{
   "message": "Access Denied."
}
```

500 Internal server error.

InternalServerErrorInfo:

```
{
description: Internal server error.
errorCode integer($int32)
message string
}
```

Example:

```
{
  "errorCode": 0,
  "message": "string"
}
```

GET /v1/support/logs

Queries all of the support logs.

URL

https://<VxRail IP address>/rest/vxm/v1/support/logs

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.3xx and later	
VxRail Software 4.7.x	Supported in 4.7.0xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Query parameters

\$filter: The conditions for the query.

See the following table for supported conditions for each release version:

VxRail Software	Supported conditions and fields		
VxRail Software 4.5.x	Conditions: equal (eq) and not equal (ne)		
	For fields: id, path, types, nodes		
	Conditions: equal (eq), not equal (ne), in (in), greater than (gt), less than (lt), greater or equal to (ge) and less or equal to (le)		
	For fields: creation_time, size		
VxRail Software 4.7.x	Conditions: equal (eq) and not equal (ne)		
	For fields: id, path, types, nodes		
	Conditions: equal (eq), not equal (ne), in (in), greater than (gt), less than (lt), greater or equal to (ge) and less or equal to (le)		
	For fields: creation_time, size		
VxRail Software 7.0.x	Conditions: equal (eq) and not equal (ne)		
	For fields: id, path, types, nodes		

Example:

 $filter=nodes eq ' node1, node2, node3 ' and creation_time gt 10000$

Response

200

The operation finished successfully.

```
[
    "id": "string",
    "types": ["vxm", "idrac"],
    "nodes": [
        "JHN3S62",
        "JHN1H62",
        "JHN1BC2"
    ],
    "creation_time": 0,
    "path": "string",
    "size": 0,
    "details": [
        "Failed to generate idrac log bundle on JHN3S62 due to the node is not idrac log supported.",
        "Failed to generate esxi log bundle on JHN1BC2 due to the node is disconnected."
    ]
}
```

401

Username/password is not recognized.

403

The user is not allowed due to insufficient privilege.

POST /v1/support/logs

Collect the support log with the specified types.

URL

```
https://<VxRail IP address>/rest/vxm/v1/support/logs
```

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.2xx and later	
VxRail Software 4.7.x	Supported in 4.7.0xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameters LogSpec: (Required) The types and nodes for log bundle collection.

Property	Туре	Description
types	[string]	(Required) An array the types of components to collect log bundles for
		Supported log types include vxm, vcenter, esxi, idrac, ptagent, and witness.
		in VxRail 4.7.500, VxRail 4.7.510, and VxRail 7.0 software.
nodes	[string]	An array of serial numbers for the nodes to include in the log
autoclean	boolean	Whether to auto clean log bundles if VxRail Manager is at capacity

Example:

```
types: ["vxm", "vcenter", "esxi"],
nodes: ["JHN3S62", "JHN1H62", "JHN1BC2"],
autoclean: true
}
```

Response

The request has been accepted for processing, but the processing has not been completed.

```
{
   "request_id": "9c50511f-9119-4351-83e0-38ce0a93c73e"
}
```

400 Invalid request parameters.

401 Username/password is not recognized.

The user is not allowed due to insufficient privilege.

The log collection is running. Please wait for a while and then retry.

500 Failed with internal errors.

GeneralDescription:

```
{
   "message": "Unexpected internal server error."
}
```

InsufficientCapacity:

```
{
   "message": "Insufficient storage capacity."
}
```

GET /v1/support/logs/<logID>

Queries the log by log ID.

URL

https://<VxRail IP address>/rest/vxm/v1/support/logs/<logID>

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.2xx and later	
VxRail Software 4.7.x	Supported in 4.7.0xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Path parameters logID: (Required) The specific log that you want to query.

Response

200 Successful operation. The log information is returned with the response.

Example:

```
"id": "string",
   "types": ["vxm", "idrac"],
   "nodes": [
       "JHN3S62",
       "JHN1BC2"
   ],
   "creation_time": 0,
   "path": "string",
   "size": 0,
   "details": [
       "Failed to generate idrac log bundle on JHN3S62 due to the node is not idrac log supported.",
       "Failed to generate esxi log bundle on JHN1BC2 due to the node is disconnected."
   ]
}
```

401 Username/password is not recognized.

The user is not allowed due to insufficient privilege.

The log is not found.

500 Failed with internal errors.

GET /v1/support/logs/<logID>/download

Download the binary stream of a log.

URL

https://<VxRail IP address>/rest/vxm/v1/support/logs/<logID>/download

Version support

VxRail Software	Supported versions
VxRail Software 4.5.x	Supported in 4.5.3xx and later
VxRail Software 4.7.x	Supported in 4.7.0xx and later
VxRail Software 7.0.x	Supported in 7.0.000 and later

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Path parameters logID: (Required) The specific log that you want to download.

Response

200 Successful operation. The log information is returned with the response.

401 Username/password is not recognized.

The user is not allowed due to insufficient privilege.

404 The log ID is invalid.

VxRail lifecycle management (LCM)

The VxRail API supports a full upgrade of the VxRail including profile and upgrade pre-check, upgrade process, and post-check.

POST /v1/lcm/precheck

Performs a separate health pre-check for the VxRail system.

URL

<VxRail IP address>/rest/vxm/v1/lcm/precheck

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.130 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameter UpgradeSpec v3: (Required) The parameters required for the pre-check.

Parameter	Type	Description
bundle_file_locator	string	(Required) The full path of the single upgrade bundle or the first package of a multiple part upgrade bundle.
		Multiple part upgrade bundles must follow the naming conventions outlined below: The first file (the installer file) must contain the string installer in the filename. Each file in the multipart bundle must keep its original name: Do not rename any files.
health_precheck_type	string	(Required) The type of health pre-check to be run Supported values are LCM_PRECHECK.
vxrail	object	(Required) Information regarding the VxRail Manager See the VxRailManagerSpec object description below.
vcenter	object	(Required) Information regarding the vCenter

Parameter	Туре	Description
		See the VcenterEmbeddedPSCSpec object description below.
witness	object	(Optional) Information regarding the witness for stretched clusters including 2-node vSAN clusters. See the WitnessSpec object description below.
upgrade_sequence	object	(Optional) Information regarding a stretched cluster upgrade sequence selection. Do not specify for standard clusters or vSAN 2-node clusters. For a stretched cluster, this option is optional. The UpgradeSequence object contains the following property: • preferred_fault_domain_first (boolean): Set true to upgrade preferred fault domain hosts first. (Required)

Example:

```
"bundle_file_locator":"/data/store2/
VXRAIL_COMPOSITE-4.7.320-10688414_for_4.7.x_Min.zip",
    "health_precheck_type": "LCM_PRECHECK",
    "vxrail":{
                         "vxm_root_user":"{
    "username":"root",
                             "password":"foo"
     },
"vcenter":{
                        "vc_admin_user":"{
    "username":"administrator@vsphere.local",
    "password":"foo"
                         "username":"root",
"password":"foo"
                        },
"migration_spec":{
                             "user":{
                                                      "username":"root",
"password":"foo"
                              "target_vcsa_host":{
    "name":"vxrail34-esx-01.local",
                                                 "user":{
                                                      "username":"root",
"password":"foo"
                             "temporary_ip_setting":{
    "temporary_ip":"10.10.199.80",
    "gateway":"10.10.198.253",
    "netmask":"255.255.255.0"
                             }
```

 ${\tt vxrail} \ {\tt VxRailManagerSpec} \ object: (Required) \ Information \ regarding \ the \ {\tt VxRailManager}.$

Property	Туре	Description
vxm_root_user	object	(Required) Credentials for the user account.
		The UserSpec object contains:
		username (string): Username of the accountpassword (string): Password of the account

 $\verb|vcenter| VcenterEmbeddedPSCSpec| object: (Required) Information regarding the \verb|vCenter|.$

Property	Туре	Description
vc_admin_user	object	(Required) Credentials for vCenter Admin user.
		The UserSpec object contains:
		• username (string)
		• password(string)
vcsa_root_user	object	Credentials for VCSA Root user. Required if the upgrade bundle contains vCenter component.
		The UserSpec object contains:
		• username (string)
		• password(string)
migration_spec	object	Information for vCenter migration-based upgrades.
		The VcenterEmbeddedPSCMigrationSpec object contains:
		 source_vcsa_host: object contains VxRail host information of the host which VCSA VM is currently on (Required): name (string): Hostname of the ESXi host user (UserSpec object): username (string) password (string) target_vcsa_host: object contains VxRail host information of the host which VCSA VM is to be deployed on (Required):

witness WitnessSpec object: Information about the witness for a stretched cluster including vSAN 2-node clusters

Property	Туре	Description
witness_user	object	Credentials for the user account. UserSpec contains:

Property	Туре	Description
		username (string)password (string)
auto_witness_upgra de	boolean	(Required) Enter true to enable auto witness upgrades

Response

202 The request has been accepted for processing, but the processing has not been completed. A

request id will be returned and can be used to check the status of the processing.

400 Invalid request parameters.

401 The provided vCenter credentials are not valid.

The server understood the request but is refusing to fulfill it.

409 The request is rejected because the resource is busy. Possible scenarios include there's already an

upgrade in progress, or some hardware operation is in progress.

The request for operation status failed with errors.

POST /v1/lcm/upgrade (4.5.0xx, 4.5.1xx, 4.5.2xx)

Upgrades all VxRail software and hardware.

NOTE: This version of the POST /lcm/upgrade API endpoint applies to VxRail software versions 4.5.0xx, 4.5.1xx, and 4.5.2xx. It does not support a direct upgrade to VxRail 4.7.x releases. Customers must first upgrade to VxRail 4.5.3xx, and can then upgrade to VxRail 4.7.x.

URL

<VxRail IP address>/rest/vxm/v1/lcm/upgrade

Version support

VxRail Software	Supported versions
VxRail Software 4.5.x	Supported in 4.5.0xx, 4.5.1xx, and 4.5.2xx only
VxRail Software 4.7.x	Not supported
VxRail Software 7.0.x	Not supported

Request

Headers Content Type (Required) Value: application/json.

Accept This header must be empty.

Authorization (Required) Username and password encoded with Base64

Body Properties

upgradeParams: (Required) The parameters required for upgrade.

```
{ /*Required*/
  "name":"lcm.composite.bundle",
 "value": <upgrade-bundle-file-name>
}, { /*Optional. The default value is 'root'.*/
 "name":"lcm.vxrail.root.username",
 "value": "root"
{ /*Required*/
 "name": "lcm.vxrail.root.password",
 "value": <root password>
 /*Required*/
  "name":"lcm.vc.admin.username",
 "value": "<admin username>"
{ /*Required*/
  "name": "lcm.vc.admin.password
 "value": <admin password>
{ /* Optional */ (Only needed for vCenter upgrade)
  "name":"lcm.psc.root.username",
 "value": "<root username>"
{ /* Optional */ (Only needed for vCenter upgrade)
  "name":"lcm.psc.root.password
 "value": <root password>
 /* Optional */ (Only needed for vCenter upgrade)
 "name": "lcm.vcsa.root.username",
 "value": "<root username>"
{ /* Optional */ (Only needed for vCenter upgrade)
 "name":"lcm.vcsa.root.password
 "value": <root password>
```

Response

200	The request has been accepted for processing, but the processing has not been completed. A request_id will be returned.
401	The provided vCenter credentials are not valid.
403	Access to the requested resource is forbidden.
500	The request for operation status failed with errors.

POST /v1/lcm/upgrade (4.5.3xx+, 4.7.x, 7.0.x)

Upgrades all VxRail software and hardware (version 1).

NOTE: When upgrading from VxRail 4.7.515 or earlier to VxRail 7.0.200 or later, you must upload the upgrade bundle to a folder that is not part of the root file system. If you are performing a multipart upgrade, upload all parts of the multipart bundle to the same folder before starting the upgrade.

URL

<VxRail IP address>/rest/vxm/v1/lcm/upgrade

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Supported in 4.5.3xx and later	
VxRail Software 4.7.x	Supported in 4.7.0xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Headers

Content Type (Required) Value: application/json.

Accept This header must be empty.

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHN1c2FtZQ==

Body Properties

upgradeSpecs: (Required) The parameters required for upgrade.

```
required:
      - bundleFileLocator
      - vxRail
      - vcenter
      bundle file locator:
        description: Full path of the single upgrade bundle or
                       first package of the multiple part upgrade bundle. Multiple part upgrade bundles must follow the
                       naming conventions outlined below:
                       - The first file (the installer file) must contain
                         the string installer in the filename.
                       - Each file in the multipart bundle must keep its
                         original name: Do not rename any files.
        type: string
      vxrail:
        description: Information regarding the VxRail Manager.
        type: object
$ref: '#/parameters/VxRailManagerSpec'
        description: Define the access information of vCenter.
        type: object
        $ref: '#/parameters/VcenterSpec'
```

Example:

```
"password": "foo"
},
"vcsa_root_user":"{
    """
    """
    """
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                 "username":"root",
                 "password": "foo"
"psc root user":"{
                 "username":" root",
                 "password":"foo"
"migration_spec":{
                 "user":{
                                                                                                      "username": "root",
                                                                                                      "password":"foo"
                 },
"source_psc_host":{
    "name":
                                                                                    "name":"vxrail34-esx-02.local",
                                                                                     "user":{
                                                                                                      "username": "root",
                                                                                                     "password":"foo"
                 "username":"root",
                                                                                                      "password":"foo"
                 "temporary_ip_setting":{
    "temporary_ip":"10.10.199.80",
    "gateway":"10.10.198.253",
    "netmask":"255.255.255.0"
}
```

VxRailManagerSpec object: Information regarding the VxRail Manager

```
required:
    - vxmRootUser
    properties:
    vxm_root_user:
        description: username and password of VxRail Manager root user
        type: object
        $ref: './common-model.yaml#/parameters/UserSpec'
```

VcenterSpec object: Information regarding the vCenter.

```
required:
      - vcAdminUser
    properties:
      vc admin user:
       description: credential for vCenter Admin user
        type: object
        $ref: './common-model.yaml#/parameters/UserSpec'
      vcsa_root_user:
        description: credentials for VCSA Root user. Required if the
upgrade bundle contains vcenter component
        type: object
      $ref: './common-model.yaml#/parameters/UserSpec'
psc_root_user:
       description: credentials for PSC Root user. Required if the
upgrade bundle contains vcenter component
        type: object
        $ref: './common-model.yaml#/parameters/UserSpec'
```

```
migration_spec:
    description: Contains information required for migration based
vcenter upgrade
    type: object
    $ref: '#/parameters/VcenterMigrationSpec'
```

VcenterMigrationSpec object: Information for vCenter migration based upgrade.

NOTE:

- For major vCenter upgrades (for example v6.5 to v6.7), this property must be provided.
- For minor vCenter upgrades (for example v6.5 U1 to v6.5 U2), this property must be null.

```
required:
      - sourceVcsaHost
      - sourcePscHost
      - targetVcsaHost
      - temporaryIpSetting
    properties:
      source vcsa host:
       description: VxRail host information of the host on which VCSA
VM is currently on
        type: object
        $ref: '#/parameters/EsxiHostSpec'
      source_psc_host:
       description: VxRail host information of the host on which PSC VM
is currently on
        type: object
$ref: '#/parameters/EsxiHostSpec'
      target vcsa host:
       description: VxRail host information of the host on which
VCSA/PSC VM is to be deployed on
        type: object
        $ref: '#/parameters/EsxiHostSpec'
      temporary ip setting:
        description: Temporary IP settings for the upgrade
        type: object
        $ref: '#/parameters/TemporaryIpSettingSpec'
```

TemporaryIpSettingSpec object: Temporary IP settings for the vcenter upgrade.

```
required:
    - temporaryIp
    - gateway
    - netmask
properties:
    temporary_ip:
        description: Temporary IP to be used during the vcenter upgrade
        type: string
    gateway:
        description: Gateway to be used during the vcenter upgrade
        type: string
    netmask:
        description: Netmask to be used during the vcenter upgrade
        type: string
```

EsxiHostSpec object: ESXi host information.

```
properties:
    name:
        description: hostname of the ESXi host.
        type: string
    user:
        description: User account credentials for ESXi host
        type: object
        $ref: './common-model.yaml#/parameters/UserSpec'
```

Response

202 The request has been accepted for processing, but the processing has not been completed. A

request_id will be returned and can be used to check the status of the processing.

400 Invalid request parameters.

401 The provided vCenter credentials are not valid.

409 The request is rejected because the resource is busy. Possible scenarios include there's already an

upgrade in progress, or some hardware operation is in progress.

The request for operation status failed with errors.

POST /v2/lcm/upgrade (4.7.410+, 7.0.x)

Upgrades all VxRail software and hardware (version 2).

NOTE: When upgrading from VxRail 4.7.515 or earlier to VxRail 7.0.200 or later, you must upload the upgrade bundle to a folder that is not part of the root file system. If you are performing a multipart upgrade, upload all parts of the multipart bundle to the same folder before starting the upgrade.

URL

<VxRail IP address>/rest/vxm/v2/lcm/upgrade

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Supported in 4.7.410 and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameter upgradeSpecs: (Required) The parameters required for an upgrade.

Parameter	Туре	Description
bundle_file_locator	string	(Required) The full path of the single upgrade bundle or first package of a multiple part upgrade bundle.
		Multiple part upgrade bundles must follow the naming conventions outlined below:
		The first file (the installer file) must contain the string installer in the filename.
		Each file in the multipart bundle must keep its original name: Do not rename any files.

Parameter	Туре	Description
vxrail	VxRailManag	(Required) Information regarding the VxRail Manager
	erSpec object	See the VxRailManagerSpec object description below.
vcenter	VcenterSpec	(Required) Information regarding the vCenter
	object	See the VcenterSpec object description below.
witness	WitnessSpec	(Optional)
	object	Information regarding the witness for stretched clusters including 2-node vSAN clusters. See the WitnessSpec object description below.
upgrade_sequence	UpgradeSequ	(Optional)
	ence object	Information regarding a stretched cluster upgrade sequence selection. Do not specify for standard clusters or vSAN 2-node clusters.
		For a stretched cluster, this option is optional.
		The UpgradeSequence object contains the following property:
		preferred_fault_domain_first (boolean): Set true to upgrade preferred fault domain hosts first. (Required)

vxrail VxRailManagerSpec object: (Required) Information regarding the VxRail Manager.

Property	Туре	Description
vxm_root_user	UserSpec object	(Required) Credentials for the user account. The UserSpec object contains:
		username (string): Username of the accountpassword (string): Password of the account

vcenter VcenterSpec object: (Required) Information regarding the vCenter.

Property	Туре	Description
vc_admin_user	UserSpec object	(Required) Credentials for vCenter Admin user. The UserSpec object contains: • username (string) • password (string)
vcsa_root_user	UserSpec object	Credentials for VCSA Root user. Required if the upgrade bundle contains vCenter component. The UserSpec object contains: • username (string) • password (string)
psc_root_user	UserSpec object	Credentials for PSC Root user. Required if the upgrade bundle contains vCenter component. The UserSpec object contains: • username (string) • password (string)
migration_spec	VcenterMigratio nSpec object	Information for vCenter migration-based upgrades. i NOTE: • For major vCenter upgrades (for example v6.7 to v7.0), this property must be provided. • For minor vCenter upgrades (for example v7.0 U1 to v7.0 U2), this property must be null. VcenterMigrationSpec contains: • source_vcsa_host: object contains VxRail host information of the host which VCSA VM is currently on (Required): • name (string): Hostname of the ESXi host • user(UserSpec object): • username (string) • password (string)

Property	Туре	Description
		 source_psc_host: object contains VxRail host information of the host on which PSC VM is currently on (Required): name (string): Hostname of the ESXi host user (UserSpec object):

witness WitnessSpec object: Information about the witness for a stretched cluster including vSAN 2-node clusters

Property	Туре	Description
witness_user	UserSpec object	Credentials for the user account. UserSpec contains: • username (string) • password (string)
auto_witness_upgrade	boolean	(Required) Enter true to enable auto witness upgrades

Response

202	The request has been accepted for processing, but the processing has not been completed. A request_id will be returned and can be used to check the status of the processing.
400	Invalid request parameters.
401	The provided vCenter credentials are not valid.
409	The request is rejected because the resource is busy. Possible scenarios include there's already an upgrade in progress, or some hardware operation is in progress.
500	The request for operation status failed with errors.

POST /v3/lcm/upgrade (7.0.100+)

Upgrades all VxRail software and hardware (version 3).

NOTE: If you are performing a multipart upgrade, upload all parts of the multipart bundle to the same folder before starting the upgrade.

URL

<VxRail IP address>/rest/vxm/v3/lcm/upgrade

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.100 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

 $\textbf{Body parameter} \quad \texttt{UpgradeSpec_v3: (Required) The parameters required for an upgrade.}$

Parameter	Туре	Description
bundle_file_locator	string	(Required) The full path of the single upgrade bundle or first package of a multiple part upgrade bundle.
		Multiple part upgrade bundles must follow the naming conventions outlined below: The first file (the installer file) must contain the string installer in the filename. Each file in the multipart bundle must keep its original name: Do not rename any files.
vxrail	object	(Required) Information regarding the VxRail Manager
		See the VxRailManagerSpec object description below.
vcenter	object	(Required) Information regarding the vCenter
		See the VcenterEmbeddedPSCSpec object description below.
witness	object	(Optional)
		Information regarding the witness for stretched clusters including 2-node vSAN clusters. See the WitnessSpec object description below.
upgrade_sequence	object	(Optional)
		Information regarding a stretched cluster upgrade sequence selection. Do not specify for standard clusters or vSAN 2-node clusters.

Parameter	Туре	Description
		For a stretched cluster, this option is optional.
		The UpgradeSequence object contains the following property:
		preferred_fault_domain_first (boolean): Set true to upgrade preferred fault domain hosts first. (Required)

```
"bundle_file_locator":"/data/store2/
VXRAIL_COMPOSITE-4.7.320-10688414_for_4.7.x_Min.zip",
    "vxrail":{
                       "vxm_root_user":"{
                           "username":"root",
                           "password":"foo"
    },
"vcenter":{
                      "vc_admin_user":"{
    "username":"administrator@vsphere.local",
    "password":"foo"
                       "vcsa_root_user":"{
                           "username":"root",
"password":"foo"
                       },
"migration_spec":{
                           "source_vcsa_host":{
                                              "name":"vxrail34-esx-02.local",
                                              "user":{
                                                  "username":"root",
                                                  "password":"foo"
                           },
"target_vcsa_host":{
    "pame":"
                                              "name":"vxrail34-esx-01.local",
                                              "user":{
                                                  "username":"root",
"password":"foo"
                           },
"temporary_ip_setting":{
    "temporary_ip":"10.10.199.80",
        "gateway":"10.10.198.253",
        "netmask":"255.255.255.0"
                       }
    }
```

 ${\tt vxrail} \ {\tt VxRailManagerSpec} \ object; \ ({\tt Required}) \ {\tt Information} \ {\tt regarding} \ the \ {\tt VxRail} \ {\tt Manager}.$

Property	Туре	Description	
vxm_root_user	object	(Required) Credentials for the user account.	
		The UserSpec object contains:	
		username (string): Username of the accountpassword (string): Password of the account	

vcenter VcenterEmbeddedPSCSpec object: (Required) Information regarding the vCenter.

Property	Туре	Description
vc_admin_user	object	(Required) Credentials for vCenter Admin user.
		The UserSpec object contains:
		• username(string)
		• password(string)
vcsa_root_user	object	Credentials for VCSA Root user. Required if the upgrade bundle contains vCenter component.
		The UserSpec object contains:
		username (string)
		• password(string)
migration_spec	object	 Information for vCenter migration-based upgrades. For major vCenter upgrades, this property must be provided. For minor vCenter upgrades (for example v7.0 U1 to v7.0 U2), this property must be null.
		The VcenterEmbeddedPSCMigrationSpec object contains:
		• source_vcsa_host: object contains VxRail host information of the host which VCSA VM is currently on (Required):
		o name (string): Hostname of the ESXi host
		o user (UserSpec object):
		username (string)
		password (string)
		 target_vcsa_host: object contains VxRail host information of the host which VCSA VM is to be deployed on (Required):
		o name (string): Hostname of the ESXi host
		o user(UserSpecobject):
		username (string)
		password (string)
		 temporary_ip_setting: object contains temporary IP settings for the vCenter upgrade (Required): temporary_ip (string): Temporary IP to be used during the vCenter upgrade (Required) gateway (string): Gateway to be used during the vCenter upgrade (Required) netmask (string): Netmask to be used during the vCenter upgrade (Required)

 $\hbox{\tt witness WitnessSpec object: Information about the witness for a stretched cluster including vSAN $2-$node clusters$

Property	Туре	Description
witness_user	object	Credentials for the user account. UserSpec contains: • username (string) • password (string)
auto_witness_upgra de	boolean	(Required) Enter true to enable auto witness upgrades

Response

The request has been accepted for processing, but the processing has not been completed. A

request_id will be returned and can be used to check the status of the processing.

400 Invalid request parameters.

401 The provided vCenter credentials are not valid.

The server understood the request but is refusing to fulfill it.

409 The request is rejected because the resource is busy. Possible scenarios include there's already an

upgrade in progress, or some hardware operation is in progress.

The request for operation status failed with errors.

POST /v4/lcm/upgrade (7.0.240+)

Performs a partial upgrade of all VxRail software and hardware. Version 4 of this API includes the optional target_hosts property, which indicates the nodes to be upgraded. If target_hosts is empty or not provided, this API upgrades all nodes in the cluster.

NOTE: If you are performing a multipart upgrade, upload all parts of the multipart bundle to the same folder before starting the upgrade.

URI

<VxRail IP address>/rest/vxm/v4/lcm/upgrade

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.240 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameter UpgradeSpec_v4: (Required) The parameters required for an upgrade.

Parameter	Туре	Description
bundle_file_locator	string	(Required) The full path of the single upgrade bundle or first package of a multiple part upgrade bundle.
		Multiple part upgrade bundles must follow the naming conventions outlined below: The first file (the installer file) must contain the string installer in the filename.

Parameter	Туре	Description
		Each file in the multipart bundle must keep its original name: Do not rename any files.
vxrail	object	(Required) Information regarding the VxRail Manager
		See the VxRailManagerSpec object description below.
vcenter	object	(Required) Information regarding the vCenter
		See the VcenterEmbeddedPSCSpec_v4 object description below.
witness	object	(Optional) Information regarding the witness for stretched clusters including 2-node vSAN clusters.
		The witness object only applies to a cluster when vLCM is not enabled.
		See the WitnessSpec object description below.
upgrade_sequence	object	(Optional) Information regarding a stretched cluster upgrade sequence selection. Do not specify for standard clusters or vSAN 2-node clusters.
		For a stretched cluster, this option is optional.
		The UpgradeSequence object only applies to a cluster when vLCM is not enabled.
		The UpgradeSequence object contains the following property:
		 preferred_fault_domain_first (boolean): Set true to upgrade preferred fault domain hosts first. (Required)
target_hosts	[object]	(Optional) Hosts to be upgraded.
		The target_hosts object only applies to a cluster when vLCM is enabled.
		See the HostBaseSpec object description below.

vxrail VxRailManagerSpec object: (Required) Information regarding the VxRail Manager.

Property	Туре	Description
vxm_root_user	object	(Required) Credentials for the user account.
		The UserSpec object contains:
		username (string): Username of the accountpassword (string): Password of the account

 $\verb|vcenter VcenterEmbeddedPSCSpec_V4| object: (Required) Information regarding the vCenter.$

Property	Туре	Description
vc_admin_user	object	(Required) Credentials for vCenter Admin user.
		The UserSpec object contains:
		username (string)password (string)
vcsa_root_user	object	Credentials for vCenter Server Appliance root user. Required if the upgrade bundle contains vCenter component.
		The UserSpec object contains:
		username (string)password (string)
migration_spec	object	Information for vCenter migration-based upgrades. • For major vCenter upgrades, this property must be provided.
		• For minor vCenter upgrades (for example v7.0 U1 to v7.0 U2), this property must be null.
		The VcenterEmbeddedPSCMigrationSpec object contains:
		• source_vcsa_host: object contains VxRail host information of the host which vCenter Server Appliance VM is currently on (Required):
		o name (string): Hostname of the ESXi host
		 target_vcsa_host: object contains VxRail host information of the host which VCSA VM is to be deployed on (Required):
		o name (string): Hostname of the ESXi host
		• temporary_ip_setting: object contains temporary IP settings for the vCenter upgrade (Required):

Property	Туре	Description
		o temporary_ip (string): Temporary IP to be used during the vCentre upgrade (Required)
		 gateway (string): Gateway to be used during the vCenter upgrade (Required)
		netmask (string): Netmask to be used during the vCenter upgrade (Required)

witness WitnessSpec object: Information about the witness for a stretched cluster including vSAN 2-node clusters.

Property	Туре	Description
witness_user	object	Credentials for the user account.
		The UserSpec object contains:
		username (string): Username of the accountpassword (string): Password of the account
auto_witness_upg rade	boolean	(Required) Enter true to enable auto witness upgrades.

host HostBaseSpec object: The hostname of the ESXi host to be upgraded.

Property	Туре	Description
HostBaseSpec	object	Hostname of the ESXi host. HostBaseSpec contains:
		• name (string)

Response

202	The request has been accepted for processing, but the processing has not been completed. A
	reguest it d will be returned and can be used to check the status of the processing

400 Invalid request parameters.

The provided vCenter credentials are not valid.

The server understood the request but is refusing to fulfill it.

409 The request is rejected because the resource is busy. Possible scenarios include there's already an

upgrade in progress, or some hardware operation is in progress.

The request for operation status failed with errors.

POST /v1/cvs/compliance-report

Generate a compliance report containing component drift information against the current system baseline.

URI

<VxRail IP address>/rest/vxm/v1/cvs/compliance-report

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.300 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameter (Required) Contains an empty JSON request body.

Example:

{

Response

The request has been accepted for processing, but the processing has not been completed. A

request_id will be returned and can be used to check the status of the processing.

400 Invalid request parameters.

401 The provided vCenter credentials are not valid.

The server understood the request but is refusing to fulfill it.

The request could not be completed due to a conflict with the current state of the target resource.

The request for operation status failed with errors.

POST /v1/lcm/advisory-meta-bundle

Upload a metadata bundle for local advisory analysis.

URL

<VxRail IP address>/rest/vxm/v1/lcm/advisory-meta-bundle

Version support

VxRail Software	Supported versions
VxRail Software 4.5.x	Not supported
VxRail Software 4.7.x	Not supported
VxRail Software 7.0.x	Supported in 7.0.300 and later

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameter

Parameter	Туре	Description
meta_bundle	string(\$bi nary)	(Required) The binary string of the metadata bundle.

Example:

Response

200 Successful operation.

POST /v1/lcm/advisory-report

Generate an advisory report that contains information about all online and local lifecycle management updates.

URL

<VxRail IP address>/rest/vxm/v1/lcm/advisory-report

Version support

VxRail Software	Supported versions
VxRail Software 4.5.x	Not supported
VxRail Software 4.7.x	Not supported
VxRail Software 7.0.x	Supported in 7.0.300 and later

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameter (Required) Contains an empty JSON request body.

Response

202	The request has been accepted for processing, but the processing has not been completed. A request_id will be returned and can be used to check the status of the processing.
400	Invalid request parameters.
401	The provided vCenter credentials are not valid.
403	The server understood the request but is refusing to fulfill it.
409	The request could not be completed due to a conflict with the current state of the target resource.
500	The request for operation status failed with errors.

VxRail cluster management

The VxRail API supports features related to cluster management, including removing a host from the cluster and shutting down the cluster.

GET /v1/cluster

Retrieves VxRail cluster information and basic appliance information list.

URL

https://<VxRail IP address>/rest/vxm/v1/cluster

Version support

VxRail Software	Supported versions
VxRail Software 4.5.x	Not supported
VxRail Software 4.7.x	Supported in 4.7.3xx and later
VxRail Software 7.0.x	Supported in 7.0.000 and later

Request

Authorization (Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

200 Successful operation.

ClusterInfo: Information about the cluster and the appliances in the cluster.

Parameter	Туре	Description
cluster_id	string	The UUID of the VxRail cluster
product_type	string	Product type of the host
device_type	string	Device type of the host
vc_connected	boolean	Whether the vCenter is connected
health	string	Status of the health of the cluster. Supported values are Critical, Error, Warning, and Healthy.
operational_status	string	Operational status information
chassises	[object]	Information about a chassis installed in the system

Parameter	Туре	Description
		The chassises object contains the following properties: id (string): ID of the chassis psnt (string): PSNT of the chassis model (string): Model of the chassis render_category (string): The chassis render category generation (integer): Generation of the chassis health (string): Status of the health of the chassis. Supported values are Critical, Error, Warning, and Healthy. [missing] (boolean): Whether the host health status is critical. Supported values are false (not critical) and true (critical).
suppressed	boolean	Whether under suppression mode or not
last_time	integer	The last time the cluster was updated

400 Bad request.

401 Unauthorized request.

UnauthorizedRequestInfo:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403

Forbidden request.

ForbiddenRequestInfo:

Example:

```
"message": "Access Denied."
}
```

500

Internal server error.

InternalServerErrorInfo:

```
{
description: Internal server error.
errorCode integer($int32)
message string
}
```

Example:

```
{
  "errorCode": 0,
  "message": "string"
}
```

POST /v1/cluster/remove-host

Removes a host from the cluster.

NOTE: This API only supports VxRail systems that are based on Dell PowerEdge servers. Quanta-based VxRail systems are not supported.

URL

```
https://<VxRail IP address>/rest/vxm/v1/cluster/remove-host
```

Version support

VxRail Software	Supported versions
VxRail Software 4.5.x	Supported in 4.5.3xx and later
VxRail Software 4.7.x	Supported in 4.7.0xx and later
VxRail Software 7.0.x	Supported in 7.0.000 and later

Request

Authorization

(Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameters removeHostSpec: (Required) The specified host to be removed.

```
description: information needed for node removal operation.
   type: object
   required:
      - serialNumber
      - vcAdminUser
      - vcsaRootUser
    properties:
      serial number:
        description: host serial number.
        type: String
        example: EMCVB150600030
      vc admin user:
        description: credential for vCenter Admin user
        type: object
        properties:
          username:
                description: username of the account
                type: string
          password:
                description: password of the account
                type: string
      vcsa root user:
        description: credentials for VCSA Root user.
        type: object
        properties:
          username:
                description: username of the account
                type: string
          password:
                description: password of the account
                type: string
```

Response

202 The request has been accepted for processing, but the processing has not been completed.

```
{
   "request_id": "9c50511f-9119-4351-83e0-38ce0a93c73e"
}
```

400 The cluster host removal parameters are not valid.

401 Username or password is not recognized.

Node removal is not supported for two-node ROBO cluster.

A conflicting operation is running. Please wait for a while and then retry.

500 Failed with internal errors.

GeneralDescription :

```
{
  "message": "Unexpected internal server error."
}
```

POST /v1/cluster/shutdown

Shuts down a cluster or performs a shutdown dry run. Only system virtual machines are shut down with this API. User virtual machines must be shut down before running POST /v1/cluster/shutdown.

URL

https://<VxRail IP address>/rest/vxm/v1/cluster/shutdown

Version support

VxRail Software	Supported versions
VxRail Software 4.5.x	Supported in 4.5.3xx and later
VxRail Software 4.7.x	Supported in 4.7.0xx and later
VxRail Software 7.0.x	Supported in 7.0.000 and later

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHN1c2FtZQ==

Body parameters dryrun: (Optional) Performs a dry run to check whether it's safe to shutdown.

Parameter	Туре	Description
dryrun		Performs a dry run to check whether it's safe to shutdown. The default value is false.

Example:

```
"{ \"dryrun\": false}"
```

Response

The request has been accepted for processing, but the processing has not been completed. An ID will be returned and can be used to check the status of the processing.

```
{
   "request_id": "d737bd1d-a6fe-4277-9f26-20ee421cc140"
}
```

401 Username or password is not recognized.

The user is not allowed due to insufficient privilege.

GET /v1/cluster/system-virtual-machines

Retrieves name, status, and host information for all installed system virtual machines (VMs) in the VxRail cluster.

URL

https://<VxRail IP address>/rest/vxm/v1/cluster/system-virtual-machines

Version support

VxRail Software	Supported versions
VxRail Software 4.5.x	Not supported
VxRail Software 4.7.x	Supported in 4.7.410 and later
VxRail Software 7.0.x	Supported in 7.0.000 and later

Request

Authorization

(Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

200

Successful operation.

SystemVMInfo:

```
{
    description: Information of the installed system VMs.

name* string vm name.

status* string vm status. Enum:Array[POWERED_ON, POWERED_OFF]
host* string host FQDN system VM resides on.
}
```

Example:

```
"name": "VxRail Manager",
    "status": "POWERED_ON",
    "host": "dell194-02.localdomain.local"
}
```

401

Unauthorized request.

ErrorResponse:

```
{
error_code integer($int32)
message* string
}
```

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403

Forbidden request.

ForbiddenRequestInfo:

```
error code
           integer($int32)
message* string
```

Example:

```
"message": "Access Denied."
```

500

Internal server error.

ErrorResponse:

```
errorCode
                     integer($int32)
                     string
message
```

Example:

```
"message": "The server failed to complete the request due to internal
error. Please try again later."
```

GET /v1/system/cluster-portgroups/{node_fqdn} (DEPRECATED)

Retrieves information about cluster portgroups used by a node.

URL

https://<VxRail IP address>/rest/vxm/v1/system/cluster-portgroups/ {node fqdn}

Version support

VxRail Software	Supported versions
VxRail Software 4.5.x	Not supported
VxRail Software 4.7.x	Not supported
VxRail Software 7.0.x	Deprecated from 7.0.300 and later

Request

Authorization

(Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Path parameters node fqdn: (Required) The FQDN of the node that you want to query.

Parameter	Туре	Description
node_fqdn	string	The FQDN of the node that you want to query

```
\verb|v1/system/cluster-portgroups/myhost.mydomain.com|\\
```

Response

200 Successful operation.

[ClusterPortgroupInfo]: Array of [portgroups] objects.

The [portgroups] object contains the following properties:

Parameter	Туре	Description
name	string	The name of the portgroup
type	string	The type of the portgroup
portgroup_key	string	The key of the portgroup
portgroup_vlan	integer	The VLAD ID of the portgroup
vds_moid	string	The Managed Object ID (MOID) of the VMware Distributed Switch (VDS)
vds_name	string	The name of the VDS
vds_uuid	string	The UUID of the VDS

Example:

401 Unauthorized request.

ErrorResponse:

```
{
message_code string
error_code integer($int32)
```

```
message* string
}
```

```
{
  "message": "The provided vCenter credentials are not valid."
}
```

403 Forbidden request.

ErrorResponse:

```
{
message_code string
error_code integer($int32)
message* string
}
```

Example:

```
{
   "message": "Access Denied."
}
```

500 Internal server error.

ErrorResponse:

```
{
message_code string
error_code integer($int32)
message* string
}
```

Example:

```
{
  "message": "The server failed to complete the request due to internal
error. Please try again later."
}
```

GET /v1/system/cluster-portgroups

Retrieves information about cluster portgroups used by a node. You specify the node using a query parameter.

URL

```
https://<VxRail IP address>/rest/vxm/v1/system/cluster-portgroups?
node_fqdn={node_fqdn}
```

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.300 and later	

Request

Authorization

(Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Query parameters

node_fqdn: (Required) The FQDN of the node that you want to query.

Parameter	Туре	Description
node_fqdn	string	The FQDN of the node that you want to query

Example:

v1/system/cluster-portgroups?node fqdn=myhost.mydomain.com

Response

200

Successful operation.

[ClusterPortgroupInfo]: Array of [portgroups] objects.

The [portgroups] object contains the following properties:

Parameter	Туре	Description
name	string	The name of the portgroup
type	string	The type of the portgroup
portgroup_key	string	The key of the portgroup
portgroup_vlan	integer	The VLAD ID of the portgroup
vds_moid	string	The Managed Object ID (MOID) of the VMware Distributed Switch (VDS)
vds_name	string	The name of the VDS
vds_uuid	string	The UUID of the VDS

401

Unauthorized request.

ErrorResponse:

```
{
message_code string
error_code integer($int32)
message* string
}
```

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403

Forbidden request.

ErrorResponse:

```
{
message_code string
error_code integer($int32)
message* string
}
```

Example:

```
{
   "message": "Access Denied."
}
```

500

Internal server error.

ErrorResponse:

```
{
message_code string
error_code integer($int32)
message* string
}
```

Example:

```
{
   "message": "The server failed to complete the request due to internal
error. Please try again later."
}
```

GET /v1/cluster/layer3/segments

Retrieves a list of layer 3 segments that are recognized by VxRail Manager.

URL

https://<VxRail IP address>/rest/vxm/v1/cluster/layer3/segments

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.130 and later	

Request

Authorization

(Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

200

Successful operation.

Returns an array of strings that list the segment names.

Example:

```
["VxRail-initial", "rack-temp-1"]
```

401

Unauthorized request.

UnauthorizedRequestInfo:

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403

Forbidden request.

ForbiddenRequestInfo:

Example:

```
{
   "message": "Access Denied."
}
```

404

The request resources was not found.

```
"message": "Resource not found."
}
```

500

Internal server error.

InternalServerErrorInfo:

```
{
description: Internal server error.
errorCode integer($int32)
message string
}
```

Example:

```
{
  "errorCode": 0,
  "message": "string"
}
```

POST /v1/cluster/layer3/segment

Creates a new segment.

URL

https://<VxRail IP address>/rest/vxm/v1/cluster/layer3/segment

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.130 and later	

Request

Authorization

(Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameters

Layer3SegmentStartSpec: (Required) Information about the segment configuration, including the proxy IP, gateway, netmask, VLAN, and topology.

Property	Туре	Description
segment	object	(Required) Configuration parameters for the segment.
		The segment object contains: • segment_label (string): The name of the segment to be created

Property	Туре	Description		
roperty	Туре	 proxy_ip (string): The IP address of the node that provides proxy service management_gateway (string): The IPv4 gateway address of the management traffic for the current segment management_netmask (string): The subnet mask of the management traffic for the current segment management_vlan (integer): The VLAN ID of the management traffic for the current segment management_topology (string): The topology type for management traffic for the VxRail cluster. Supported values are DIFF_SUBNET or SAME_SUBNET vsan_gateway (string): The IPv4 gateway address of the vSAN traffic for the current segment vsan_netmask (string): The subnet mask for the vSAN traffic for the current segment vsan_vlan (integer): The VLAN ID for the vSAN traffic for the current segment vsan_topology (string): The topology type for the vSAN traffic for the VxRail cluster. Supported values are DIFF_SUBNET or SAME_SUBNET vsan_init_gateway (string): The IPv4 gateway address of the vSAN traffic of the initial segment. (i) NOTE: When vsan_topology is set as DIFF_SUBNET, this value must be provided during the first L3 segment creation. vmotion_gateway (string): The IPv4 gateway address of the vSphere vMotion traffic of current segment vmotion_netmask (string): The subnet mask for the vSphere vMotion traffic of current segment vmotion_vlan (integer): The VLAN ID for the vSphere vMotion traffic for the VxRail cluster. Supported values are DIFF_SUBNET or SAME_SUBNET vmotion_topology (string): The topology type for the vSphere vMotion traffic for the VxRail cluster. Supported values are DIFF_SUBNET or SAME_SUBNET vmotion_init_gateway (string): The IPv4 gateway address of the vSphere vMotion traffic for the initial segment i) NOTE: When vmotion_topology is set as DIFF_SUBNET, this value must be provided during the first L3 segment creation.		
vcenter	object	(Required) Credentials for the vCenter administrator. The Account object contains: • username (string): Username of the account • password (string): Password of the account		

```
"segment": {
    "segment_label": "rack-temp-1",
    "proxy_ip": "192.168.10.251",
    "management_gateway": "192.168.10.1",
    "management_netmask": "255.255.255.0",
    "management_vlan": 20,
    "management_topology": "DIFF_SUBNET",
    "vsan_gateway": "172.18.33.1",
```

```
"vsan_netmask": "255.255.255.0",
   "vsan_vlan": 30,
   "vsan_topology": "DIFF_SUBNET",
   "vsan_init_gateway": "172.18.3.1",
   "vmotion_gateway": "172.18.43.1",
   "vmotion_netmask": "255.255.255.0",
   "vmotion_vlan": 40,
   "vmotion_topology": "DIFF_SUBNET",
   "vmotion_init_gateway": "172.18.4.1"
},
   "vcenter": {
        "username": "administrator@vsphere.local",
        "password": "Testvxrail123!"
}
```

Response

200 Successful operation.

400 Invalid request parameters.

Layer3SegmentInputErrorResponse: Error response for segment create or update input errors

```
{
  "message": [
      "id": "segment_label",
      "errors": [
        "segment label occupied",
        "reserved segment label cannot be used",
        "there exists other segment without configured node"
    },
      "id": "<management/vsan/vmotion>_topology",
      "errors": [
        "topology not specified",
        "invalid topology format",
        "topology different from the current configuration and cannot be
changed"
      "id": "proxy_ip",
      "errors": [
        "invalid ip format",
        "proxy ip already used by configured host",
        "proxy ip already used in other segments",
        "proxy ip not accessible",
        "proxy service not enabled",
        "proxy service version incompatible",
        "missing proxy ip in DIFF_SUBNET topology"
    },
      "id": "<management/vsan/motion>_gateway",
      "errors": [
        "invalid ip format",
        "missing gateway while topology is DIFF_SUBNET",
        "in the same subnet with initial segment while topology is
DIFF_SUBNET"
     ]
      "id": "<management/vsan/motion>_netmask",
      "errors": [
```

```
"invalid netmask format",
        "missing netmask while topology is DIFF SUBNET",
        "in the same subnet with initial segment while topology is
DIFF SUBNET"
      ]
    },
    {
      "id": "<management/vsan/motion>_vlan",
      "errors": [
        "invalid vlan format"
    },
      "id": "<vsan/motion>_init_gateway",
      "errors": [
        "invalid ip format",
"in the same subnet with initial segment while topology is DIFF_SUBNET", DIFF_SUBNET"
      ]
    },
    {
      "id": "general_error",
      "errors": [
        "Segment creation/update is not allowed for this type of
cluster",
    "Segment is currently under expansion and update is not allowed
in this status"
      ]
    }
 ]
```

401 Unauthorized request.

UnauthorizedRequestInfo:

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403 Forbidden request.

ForbiddenRequestInfo:

Example:

```
{
   "message": "Access Denied."
}
```

404 The request resources was not found.

```
"message": "Resource not found."
}
```

500

Internal server error.

InternalServerErrorInfo:

```
{
description: Internal server error.
errorCode integer($int32)
message string
}
```

Example:

```
{
  "errorCode": 0,
  "message": "string"
}
```

GET /v1/cluster/layer3/segment/{segment-label}

Retrieves the segment configuration for a specific segment.

URL

https://<VxRail IP address>/rest/vxm/v1/cluster/layer3/segment/{segment-label}

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.130 and later	

Request

Authorization

(Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHN1c2FtZQ==

Path parameters

segment-label: (Required) The label of the segment that you want to query.

Parameter	Туре	Description
segment-label	string	The label of the segment that you want to query

```
v1/cluster/layer3/segment/rack-temp-1
```

Response

200 Successful operation.

Layer3SegmentSpec: Configuration information about the specified segment.

Property	Туре	Description
segment_label	string	The name of the segment
proxy_ip	string	The IP address of the node which provides the proxy service
management_gate way	string	The IPv4 gateway address for the management traffic for the current segment
management_netm ask	string	The subnet mask for the management traffic for the current segment
management_vlan	integer	The VLAN ID for the management traffic for the current segment
management_topo logy	string	The topology type for the management traffic for the VxRail cluster. Supported values are DIFF_SUBNET, SAME_SUBNET, or UNDECIDED
vsan_gateway	string	The IPv4 gateway address for the vSAN traffic for the current segment
vsan_netmask	string	The subnet mask for the vSAN traffic for the current segment
vsan_vlan	integer	The VLAN ID for the vSAN traffic for the current segment
vsan_init_gatew ay	string	The IPv4 gateway address for the vSAN traffic for the initial segment
vsan_topology	string	The topology type for the vSAN traffic for the VxRail cluster. Supported values are DIFF_SUBNET, SAME_SUBNET, or UNDECIDED
vmotion_gateway	string	The IPv4 gateway address for the vSphere vMotion the current segment
vmotion_netmask	string	The subnet mask for the vSphere vMotion the current segment
vmotion_vlan	integer	The VLAN ID for the vSphere vMotion the current segment
vmotion_init_ga teway	string	The IPv4 gateway address for the vSphere vMotion traffic for the initial segment
vmotion_topolog y	string	The topology type for the vSphere vMotion traffic for the VxRail cluster. Supported values are DIFF_SUBNET, SAME_SUBNET, or UNDECIDED

```
"segment_label": "rack-temp-1",
"management_gateway": "192.168.10.1",
"management_netmask": "255.255.255.0",
"management_vlan": 20,
"vsan_gateway": "172.18.33.1",
"vsan_netmask": "255.255.255.0",
"vsan_vlan": 30,
"vmotion_gateway": "172.18.43.1",
```

```
"vmotion_netmask": "255.255.255.0",
"vmotion_vlan": 40,
"proxy_ip": "192.168.10.251"
}
```

401 Unauthorized request.

UnauthorizedRequestInfo:

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403 Forbidden request.

ForbiddenRequestInfo:

Example:

```
{
   "message": "Access Denied."
}
```

404 The request resources was not found.

Example:

```
"message": "Resource not found."
}
```

500 Internal server error.

InternalServerErrorInfo:

```
{
description: Internal server error.
errorCode integer($int32)
message string
}
```

```
{
  "errorCode": 0,
  "message": "string"
}
```

GET /v1/cluster/layer3/segment/{segment-label}/health

Retrieves the health status for a specific segment.

URL

https://<VxRail IP address>/rest/vxm/v1/cluster/layer3/segment/{segment-label}/health

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.130 and later	

Request

Authorization (Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Path parameters segment-label: (Required) The label of the segment that you want to query.

Parameter	Туре	Description
segment-label	string	The label of the segment that you want to query

Example:

v1/cluster/layer3/segment/rack-temp-1

Response

200 Successful operation.

SegmentStatusInfo: Information about the specified segment.

Property	Туре	Description	
type	string	The type of health check performed	
status	string	The status of the health check. Supported values are HEALTHY, UNHEALTHY, or SKIP	
errors	[objects]	Details about health check issues The errors object contains the following properties: • level (string): The severity level of the issue. Supported values are WARNING or ERROR • field (string): The category of the issue	

Property	Туре	De	Description	
		•	message (string): The description of the issue	

```
[
    "type": "proxy",
"status": "HEALTHY",
"errors": []
  },
    "type": "proxy",
"status": "SKIPPED",
"errors": []
  },
    "type": "proxy",
"status": "UNHEALTHY",
"errors": [
          "level": "ERROR",
"field": "ip",
           "message": "proxy ip conflict with configured node"
        {
          "level": "WARNING", "field": "service",
          "message": "proxy service not enabled"
          "level": "ERROR",
"field": "service",
           "message": "proxy service version incompatible"
    ]
  },
     "type": "network",
     "status": "UNHEALTHY",
     "errors": [
          "level": "ERROR",
"field": "vsan",
"message": "vds saved in database can not be found in vCenter"
          "level": "ERROR",
"field": "management",
          "message": "portgroup saved in database can not be found in
vCenter"
       },
          "level": "ERROR",
"field": "vsan",
           "message": "portgroup saved in database mismatch vds"
          "level": "ERROR",
"field": "vmotion",
           "message": "portgroup vlan saved in database mismatch the value
in vCenter"
     ]
 }
]
```

401 Unauthorized request.

UnauthorizedRequestInfo:

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403 Forbidden request.

ForbiddenRequestInfo:

Example:

```
{
  "message": "Access Denied."
}
```

404 The request resources was not found.

Example:

```
{
   "message": "Resource not found."
}
```

500 Internal server error.

InternalServerErrorInfo:

```
{
  "errorCode": 0,
  "message": "string"
}
```

PATCH /v1/cluster/layer3/segment/{segment-label}

Changes the segment label for the specified segment.

URL

https://<VxRail IP address>/rest/vxm/v1/cluster/layer3/segment/{segment-label}

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.130 and later	

Request

Authorization (Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Path parameters segment-label: (Required) The label of the segment that you want to change.

Parameter	Туре	Description
segment-label	string	The current label of the segment that you want to change

Example:

v1/cluster/layer3/segment/rack-temp-1

Body parameters

Property	Туре	Description
segment_label	-	(Required) The new label that you want the segment to be changed to.

Example:

```
{
   "segment_label": "rack-1"
}
```

Response

200 Successful operation.

```
{
   "message": "Successfully changed the label of the segment."
}
```

400 Bad request.

Example:

```
{
  "error_code": 60006,
  "message": "The segment label to be updated does not exist."
}
```

401 Unauthorized request.

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403 Forbidden request.

Example:

```
{
   "message": "Access Denied."
}
```

The request resources was not found.

Example:

```
{
   "message": "Resource not found."
}
```

500 Internal server error.

InternalServerErrorInfo:

```
{
description: Internal server error.
errorCode integer($int32)
message string
}
```

Example:

```
{
  "errorCode": 0,
  "message": "The server failed to complete the request due to internal
error. Please try again later."
}
```

POST /v1/cluster/layer3/segment/{segment-label}

Updates the configuration for a specific segment.

URL

https://<VxRail IP address>/rest/vxm/v1/cluster/layer3/segment/{segment-label}

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.130 and later	

Request

Authorization (Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Path parameters segment-label: (Required) The label of the segment that you want to update.

Parameter	Туре	Description
segment-label	string	The current label of the segment that you want to update

Example:

v1/cluster/layer3/segment/rack-temp-1

Body parameters Layer3SegmentStartSpec: (Required) Information about the segment configuration, including the proxy IP, gateway, netmask, VLAN, and topology.

Property	Туре	Description	
segment	object	(Required) Configuration parameters for the segment.	
		The segment object contains:	
		• segment_label (string): The name of the segment to be created	
		 proxy_ip (string): The IP address of the node that provides proxy service 	
		 management_gateway (string): The IPv4 gateway address for the management traffic for the current segment 	
		 management_netmask (string): The subnet mask of the management traffic for the current segment 	
		 management_vlan (integer): The VLAN ID of the management traffic for the current segment 	
		 management_topology (string): The topology type for the management traffic for the VxRail cluster. Supported values are DIFF SUBNET, SAME SUBNET, or UNDECIDED 	
		 vsan_gateway (string): The IPv4 gateway address for the vSAN traffic for the current segment 	
		vsan_netmask (string): The subnet mask for the vSAN traffic for the current segment	
		vsan_vlan (integer): The VLAN ID for the vSAN traffic for the current segment	
		• vsan_init_gateway (string): The IPv4 gateway address for the vSAN traffic for the initial segment	
		 vsan_topology (string): The topology type for the vSAN traffic for the VxRail cluster. Supported values are DIFF SUBNET, SAME SUBNET, or UNDECIDED 	

Property	Туре	Description	
		 vmotion_gateway (string): The IPv4 gateway address for the vSphere vMotion traffic for the current segment vmotion_netmask (string): The subnet mask for the vSphere vMotion traffic for the current segment vmotion_vlan (integer): The VLAN ID for the vSphere vMotion traffic for the current segment vmotion_init_gateway (string): The IPv4 gateway address for the vSphere vMotion traffic for the initial segment vmotion_topology (string): The topology type for the vSphere vMotion traffic for the VxRail cluster. Supported values are DIFF_SUBNET, SAME_SUBNET, or UNDECIDED 	
vcenter	object	(Required) Credentials for the vCenter administrator. The Account object contains: username (string): Username of the account. password (string): Password of the account.	

```
"segment": {
    "segment_label": "rack-temp-1",
    "proxy_ip": "192.168.10.251",
    "management_gateway": "192.168.10.1",
    "management_netmask": "255.255.255.0",
    "management_vlan": 20,
    "management_topology": "DIFF_SUBNET",
    "vsan_gateway": "172.18.33.1",
    "vsan_netmask": "255.255.255.0",
    "vsan_vlan": 30,
    "vsan_vlan": 30,
    "vsan_topology": "DIFF_SUBNET",
    "vsan_init_gateway": "172.18.3.1",
    "vmotion_gateway": "172.18.43.1",
    "vmotion_pateway": "255.255.255.0",
    "vmotion_vlan": 40,
    "vmotion_topology": "DIFF_SUBNET",
    "vmotion_topology": "DIFF_SUBNET",
    "vmotion_init_gateway": "172.18.4.1"
},
    "vcenter": {
        "username": "administrator@vsphere.local",
        "password": "Testvxrail123!"
}
```

Response

200 Successful operation.

Example:

```
{
   "message": "Successfully updated the segment configuration."
}
```

400 Invalid request parameters.

Layer3SegmentInputErrorResponse: Error response for segment update errors.

```
"message": [
      "id": "segment_label",
      "errors": [
        "segment label occupied",
        "reserved segment label cannot be used",
        "there exists other segment without configured node"
    },
      "id": "<management/vsan/vmotion>_topology",
      "errors": [
        "topology not specified",
        "invalid topology format"
        "topology different from the current configuration and cannot be
changed"
    {
      "id": "proxy_ip",
      "errors": [
        "invalid ip format",
        "proxy ip already used by configured host",
        "proxy ip already used in other segments",
        "proxy ip not accessible",
        "proxy service not enabled",
        "proxy service version incompatible",
        "missing proxy ip in DIFF_SUBNET topology"
      ]
    },
      "id": "<management/vsan/motion>_gateway",
      "errors": [
        "invalid ip format",
        "missing gateway while topology is DIFF_SUBNET",
        "in the same subnet with initial segment while topology is
DIFF_SUBNET"
      ]
      "id": "<management/vsan/motion> netmask",
      "errors": [
        "invalid netmask format",
        "missing netmask while topology is DIFF SUBNET",
        "in the same subnet with initial segment while topology is
DIFF SUBNET"
      ]
      "id": "<management/vsan/motion>_vlan",
      "errors": [
        "invalid vlan format"
    },
      "id": "<vsan/motion>_init_gateway",
      "errors": [
        "invalid ip format",
        "missing initial gateway while topology is DIFF_SUBNET",
        "in the same subnet with initial segment while \overline{t}opology is
DIFF_SUBNET"
     ]
    },
      "id": "general error",
      "errors": [
        "Segment creation/update is not allowed for this type of
cluster",
```

401

Unauthorized request.

UnauthorizedRequestInfo:

```
{
description:
message

string
example: The provided vCenter credentials are not valid.
The detail error message about the unauthorized request.
}
```

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403

Forbidden request.

ForbiddenRequestInfo:

Example:

```
{
  "message": "Access Denied."
}
```

404

The request resources was not found.

Example:

```
{
   "message": "Resource not found."
}
```

500

Internal server error.

 ${\tt InternalServerErrorInfo:}$

```
{
  "errorCode": 0,
  "message": "string"
}
```

DELETE /v1/cluster/layer3/segment/{segment-label}

Deletes a segment.

URL

https://<VxRail IP address>/rest/vxm/v1/cluster/layer3/segment/{segment-label}

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.130 and later	

Request

Authorization (Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Path parameters segment-label: (Required) The label of the segment that you want to delete.

Parameter	Туре	Description
segment-label	string	The current label of the segment that you want to delete

Example:

v1/cluster/layer3/segment/rack-temp-1

Response

200 Successful operation.

Example:

```
{
   "message": "Successfully changed the label of the segment."
}
```

400 Bad request.

Example:

```
{
  "error_code": 60006,
  "message": "The segment label to be updated does not exist."
}
```

403 Forbidden request.

```
"message": "Access Denied."
}
```

404

The request resources was not found.

Example:

```
{
  "message": "Resource not found."
}
```

500

Internal server error.

InternalServerErrorInfo:

```
{
description: Internal server error.
errorCode integer($int32)
message string
}
```

Example:

```
{
  "errorCode": 0,
  "message": "The server failed to complete the request due to internal
error. Please try again later."
}
```

POST /v1/cluster/expansion/validate

Validates a cluster expansion (layer 2 or layer 3) based on the provided expansion specification.

URL

<VxRail IP address>/rest/vxm/v1/cluster/expansion/validate

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.130 and later	

Request

Authorization

(Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameter

ExpansionRequest: (Required) Parameters to validate the cluster expansion (supports L2/L3 network configurations).

Parameter	Туре	Description
version	string	(Required) The software version of the VxRail cluster. For example, 7.0.130
hosts	[object]	(Required) Information regarding the hosts in the cluster See the ExpansionNodeSpec object description below.
vcenter	object	 (Required) vCenter credentials username (string): Username of the account (Required) password (string): Password of the account (Required)
segment_label	string	(Optional) Label name of the segment.

```
"version": "7.0.240",
"hosts": [
     "customer_supplied": {
        "management_ip": "10.62.81.11",
        "current root_password": "Passw0rd!"
     },
"hostname": "dellb05-01.localdomain.local",
     "accounts": {
        "root": {
          "username": "root",
"password": "password"
       "management": {
    "username": "management",
    "password": "Testesx123!"
     },
"network": [
       {
          "type": "management",
          "ip": "10.62.81.11"
        {
          "type": "vsan",
"ip": "10.62.81.11"
          "type": "vmotion", "ip": "10.62.81.11"
     "geo_location": {
    "rack_name": "r1",
        "order_number": 1
     "maintenance_mode": false,
     "nic_mappings": [
       {
          "vds_name": "vds1",
"name": "uplink1",
          "physical_nic": "vmnic0"
          "vds_name": "vds1",
```

```
"name": "uplink2",
                               "physical nic": "vmnic1"
                     }
                "storage": {
                     "disk_group_type": "2403"
       },
               "customer_supplied": {
                       "management ip": "10.62.81.12",
                       "current_root_password": "Passw0rd!"
                "hostname": "dellb05-02.localdomain.local",
                "accounts": {
                       "root": {
                             "username": "root",
"password": "password"
                      "management": {
    "username": "management",
    "password": "Testesx123!"
                "network": [
                              "type": "management",
                              "ip": "10.62.81.12"
                              "type": "vsan",
"ip": "10.62.81.12"
                              "type": "vmotion",
"ip": "10.62.81.12"
              "order_number": 2
                "maintenance_mode": false,
                "nic_mappings": [
                     "vds_name": "vds1",
                              "name": "uplink1",
                              "physical_nic": "vmnic0"
                              "vds_name": "vds1",
                              "name": "uplink2",
                              "physical_nic": "vmnic1"
               ],
"storage": {
    claim
    c
                       "slot claims": [
                                      "usage": "non-vSAN",
"values": [
                                                      "slots": "0-3,9"
                                      ]
                             }
                     ]
              }
       }
"username": "administrator@vsphere.local",
        "password": "Testvxrail123!"
```

}

hosts ExpansionNodeSpec object: (Required) Information regarding the hosts in the cluster.

Property	Туре	Description
customer_supplie	object	Customer-supplied management IP address and password information
		The CustomerSuppliedSpec object contains:
		 management_ip (string): IP address of the management node (Required)
		current_root_password (string): Password of the root account
host_psnt	string	PSNT of the host
hostname	string	(Required) Hostname of the host
accounts	object	(Required) Credentials for the host accounts
		The NodeAccount object contains:
		• root (object) (Required):
		o username (string) (Required)
		o password (string) (Required)
		management (object) (Required):username (string) (Required)
		<pre>o password (string) (Required)</pre>
network	[object]	(Required) An array of network information for the host components
		The HostIP object contains:
		• type (object) (Required): Type of component. Supported values include management, vsan, and vmotion.
		• ip (string) (Required): IP address of the component
maintenance_mode	boolean	Whether the hosts remain in maintenance mode
nic_mappings	[object]	(Required) An array of NIC mappings for the hosts
		The nic_mappings object contains:
		• vds_name (string) (Required): Name of the VDS
		• name (string) (Required): Name of the uplink
		physical_nic (string) (Required): Name of the physical NIC
geo_location	object	Geographic location information for the host
		The geo_location object contains:
		• rack_name (string): The name of the rack that houses the host
		• position (integer): The position of the node in the rack
storage	object	Information about which disk slots are claimed as vSAN storage and which slots are non-vSAN storage
		The storage object contains:
I	1	

Property	Туре	Description	
		 disk_group_type (string): The disk group configuration for the appliance. Supported in VxRail 7.0.240 software and later. For the VxRail E660/F, P670F, and V670F appliances, disk_group_type uses the default configuration unless this property is specified. For all other appliance models, disk_group_type is not supported. 	
		The first two digits in disk_group_type represent the number of disk slots in the appliance. The second two digits represent the disk group configuration. For example, 1001 represents an E660/F with 10 disk slots using the disk group 1 (DG1) configuration (1 cache disk and up to 7 capacity disks).	
		Supported values include: VxRail E660/F appliance: 1001 (default), 1002 VxRail P670F appliance: 2804 (default) VxRail V670F appliance: 2404 (default), 2403 	
		 [slot_claims] (object): usage (string): The type of usage the slot values are claimed as. Supported values are vSAN and non-vSAN. [values] (string): slots (string): A list of disk slots that are claimed as the type of usage defined in usage. Example values include 3, 6, 7-8 	

Response

202	The request has been accepted for processing, but the processing has not been completed. A request_id will be returned and can be used to check the status of the processing.
400	Invalid request parameters.
401	The provided vCenter credentials are not valid.
403	The server understood the request but is refusing to fulfill it.
404	The server has not found anything matching the Request-URI.
500	The request for operation status failed with errors.

POST /v1/cluster/expansion

Performs a cluster expansion (layer 2 or layer 3) based on the provided expansion specification.

URL

<VxRail IP address>/rest/vxm/v1/cluster/expansion

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.130 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameter

 ${\tt ExpansionRequest:} \ ({\tt Required}) \ {\tt Parameters} \ for \ the \ cluster \ expansion \ (supports \ L2/L3 \ network \ configurations).$

Parameter	Туре	Description
version	string	(Required) The software version of the VxRail cluster. For example, 7.0.130
hosts	[object]	(Required) Information about the hosts in the cluster See the ExpansionNodeSpec object description below.
vcenter	object	 (Required) vCenter credentials username (string): Username of the account (Required) password (string): Password of the account (Required)
segment_label	string	(Optional) Label name of the segment

```
"ip": "10.62.81.11"
    }
  "storage": {
     "slot_claims": [
          "usage": "non-vSAN",
          "values": [
               "slots": "3,6,7-8"
          ]
    ]
  "geo_location": {
    "rack_name": "r1",
    "rack_name": 1
  "maintenance_mode": false,
  "nic_mappings": [
    {
       "vds_name": "vds1",
       "name": "uplink1",
       "physical_nic": "vmnic0"
       "vds_name": "vds1",
       "name": "uplink2",
       "physical_nic": "vmnic1"
},
  "host_psnt": "JHN04D2000000",
"hostname": "dellb05-02.localdomain.local",
  "accounts": {
    "root": {
       "username": "root",
       "password": "password"
     "management": {
    "username": "management",
    "password": "Testesx123!"
     }
  "network": [
    "type": "management",
       "ip": "10.62.81.12"
       "type": "vsan",
"ip": "10.62.81.12"
    "type": "vmotion",
"10 62 81.12
       "ip": "10.62.81.12"
   "geo_location": {
    "rack_name": "r1",
     "order_number": 2
  "maintenance_mode": false,
"nic_mappings": [
    {
       "vds_name": "vds1",
       "name": "uplink1",
       "physical_nic": "vmnic0"
     },
```

hosts ExpansionNodeSpec object: (Required) Information regarding the hosts in the cluster.

Property	Туре	Description
customer_supplied	object	Customer-supplied management IP address and password information
		The CustomerSuppliedSpec object contains:
		 management_ip (string): IP address of the management node (Required) current_root_password (string): Password of the root account
host_psnt	string	PSNT of the host
hostname	string	(Required) Hostname of the host
accounts	object	(Required) Credentials for the host accounts
		The NodeAccount object contains:
		 root (object) (Required): username (string) (Required) password (string) (Required) management (object) (Required): username (string) (Required) password (string) (Required)
network	[object	(Required) An array of network information for the host components
		The HostIP object contains:
		 type (object) (Required): Type of component. Supported values include management, vsan, and vmotion. ip (string) (Required): IP address of the component
maintenance_mode	boolean	Whether the hosts remain in maintenance mode after being added to the cluster
nic mappings	[object	(Required) An array of NIC mappings for the hosts
]	The nic mappings object contains:
		 vds_name (string) (Required): Name of the VDS name (string) (Required): Name of the uplink physical_nic (string) (Required): Name of the physical NIC
geo_location	object	Geographic location information for the host The geo_location object contains:

Property	Туре	Description
		 rack_name (string): The name of the rack that houses the host position (integer): The position of the node in the rack
storage	object	Information about which disk slots are claimed as vSAN storage and which slots are non-vSAN storage
		NOTE: The storage property is supported in VxRail software 7.0.130 and later.
		The storage object contains:
		 disk_group_type (string): The disk group configuration for the appliance. Supported in VxRail 7.0.240 software and later. For the VxRail E660/F, P670F, and V670F appliances, disk_group_type uses the default configuration unless this property is specified. For all other appliance models, disk_group_type is not supported.
		The first two digits in disk_group_type represent the number of disk slots in the appliance. The second two digits represent the disk group configuration. For example, 1001 represents an E660/F with 10 disk slots using the disk group 1 (DG1) configuration (1 cache disk and up to 7 capacity disks).
		Supported values include: VxRail E660/F appliance: 1001 (default), 1002 VxRail P670F appliance: 2804 (default) VxRail V670F appliance: 2404 (default), 2403
		 [slot_claims] (object): usage (string): The type of usage the slot values are claimed as. Supported values are vSAN and non-vSAN.
		 [values] (string): slots (string): A list of disk slots that are claimed as the type of usage defined in usage. Example values include 3, 6, 7-8

Response

202	The request has been accepted for processing, but the processing has not been completed. A request_id will be returned and can be used to check the status of the processing.
400	Invalid request parameters.
401	The provided vCenter credentials are not valid.
403	The server understood the request but is refusing to fulfill it.
404	The server has not found anything matching the Request-URI.
500	The request for operation status failed with errors.

POST /v1/cluster/expansion/cancel

Cancels a failed cluster expansion.

URL

<VxRail IP address>/rest/vxm/v1/cluster/expansion/cancel

Version support

VxRail Software	Supported versions
VxRail Software 4.5.x	Not supported
VxRail Software 4.7.x	Not supported
VxRail Software 7.0.x	Supported in 7.0.130 and later

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

The request succeeded.

400 Invalid request parameters.

The server has not found anything matching the Request-URI.

The request for operation status failed with errors.

GET /v1/vc/mode

Retrieves the current vCenter mode and Platform Services Controller (PSC) mode.

URL

https://<VxRail IP address>/rest/vxm/v1/vc/mode

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Supported in 4.7.3xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization

(Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

200

Successful operation.

ClusterModeInfo:

Example:

```
{
   "psc_mode": "EXTERNAL",
   "vc_mode": "EMBEDDED"
}
```

400

Bad request

401

Unauthorized request.

UnauthorizedRequestInfo:

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403

Forbidden request.

ForbiddenRequestInfo:

```
{
  "message": "Access Denied."
}
```

404

vCenter mode is not found.

ResourceNotFoundInfo:

```
{
description: Resource not found.
errorCode integer($int32)
message string
}
```

Example:

```
"errorCode": 0,
  "message": "string"
}
```

500

Internal server error.

InternalServerErrorInfo:

```
{
description: Internal server error.
errorCode integer($int32)
message string
}
```

Example:

```
{
  "errorCode": 0,
  "message": "string"
}
```

PATCH /v1/vc/mode

Change the VxRail vCenter and Platform Services Controller (PSC) mode between internal mode and external mode.

URL

```
https://<VxRail IP address>/rest/vxm/v1/vc/mode
```

Version support

VxRail Software	Supported versions
VxRail Software 4.5.x	Not supported
VxRail Software 4.7.x	Supported in 4.7.3xx and later
VxRail Software 7.0.x	Supported in 7.0.000 and later

Request

Authorization

(Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameters VcConversionSpec: (Required) Information needed to update the vCenter or PSC mode to internal or external

Property	Туре	Description
psc_mode	string	 (Required) Specifies the PSC mode that you want. Supported values are: EMBEDDED: PSC is integrated with vCenter EXTERNAL: PSC is a separate appliance from vCenter Note that vCenter 7.0 only supports embedded PSC mode.
vc_admin_user	Account Object	 (Required) Credentials for the vCenter administrator. The Account object contains: username (string): Username of the account. password (string): Password of the account.
vc_mode	string	(Required) Specifies the vCenter mode that you want. Supported values are: • EMBEDDED: vCenter is deployed by VxRail • EXTERNAL: vCenter is external

Example:

```
"psc_mode": "EXTERNAL",
"vc_admin_user": {
    "password": "xxxxxxx",
    "username": "administrator@vsphere.local"
"vc_mode": "EXTERNAL"
```

Response

202 Successful operation.

AcceptedRequestInfo:

```
description:
                 Accepted request.
request id
                   string
                example: 5ffe7062-a590-45b8-a172-8d2cf119562e
                The detail message about the accepted request.
```

Example:

```
"request id": "5ffe7062-a590-45b8-a172-8d2cf119562e"
```

400 Request body is not correct.

BadRequestInfo:

```
description:
                   Bad request.
errorCode
                   integer($int32)
                 example: 40007
                 The sub-errorcode to indicate the bad request.
```

401 Unauthorized request.

UnauthorizedRequestInfo:

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403 Forbidden request.

ForbiddenRequestInfo:

Example:

```
{
   "message": "Access Denied."
}
```

500 Internal server error.

InternalServerErrorInfo:

```
{
  "errorCode": 0,
  "message": "string"
}
```

VxRail appliance

The VxRail API supports querying and VxRail appliance chassis, disk, and host information.

GET /v1/chassis

Retrieves a list of VxRail chassis and information about every node in each chassis.

URL

```
https://<VxRail IP address>/rest/vxm/v1/chassis
```

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Supported in 4.7.3xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization

(Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHN1c2FtZQ==

Response

200

Successful operation.

ChassisInfo:

400 Bad request

401 Unauthorized request.

UnauthorizedRequestInfo:

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403 Forbidden request.

ForbiddenRequestInfo:

Example:

```
{
   "message": "Access Denied."
}
```

500 Internal server error.

InternalServerErrorInfo:

GET /v2/chassis

Retrieves a list of VxRail chassis and information about every node for each chassis (version 2).

URL

https://<VxRail IP address>/rest/vxm/v2/chassis

Version support

VxRail Software	Supported versions
VxRail Software 4.5.x	Not supported
VxRail Software 4.7.x	Not supported
VxRail Software 7.0.x	Supported in 7.0.010 and later

Request

Authorization (Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

200 Successful operation.

 $\hbox{\tt [ChassisInfoV2]:}$

Parameter	Туре	Description
id	string	ID number of the chassis
sn	string	Serial number of the chassis
part_number	string	Part number of the chassis
description	string	Short description of the chassis
service_tag	string	Service tag number of the chassis
psnt	string	Product serial number tag (PSNT) of the chassis
model	string	Model type of the chassis
render_category	string	Dell render category of the chassis
generation	integer	VxRail generation of the chassis

Parameter	Туре	Description
health	string	Health status of the VxRail system
		Supported values are Critical, Error, Warning, and Healthy.
missing	boolean	Whether the chassis health status is critical. Supported values are false (not critical) and true (critical)
hosts	[object]	Information about each VxRail host The hosts object contains the following properties: id (string): ID of the host sn (string): Serial number of the host slot (integer): Rack slot position where the VxRail host appliance is installed hostname (string): Hostname of the host name (string): Name of the host manufacturer (string): Manufacturer of the host psnt (string): PSNT of the host led_status (string): State of the chassis LED indicator for the host health (string): Health status of the host Supported values are Critical, Error, Warning, and Healthy. missing (boolean): Whether the host health status is critical. Supported values are false (not critical) and true (critical) tpm_present (boolean): Whether a TPM security device is installed on the VxRail host operational_status (string): Operational status of the host power_status (string): Power supply status of the host geo_location (object): Information about the geographical location of the host rack_name (string): Rack name where the host is located order number (integer): Order number of the
power_supplies	[object]	Information about the chassis power supplies The power_supplies object contains the following properties: • sn (string): Serial number of the power supply • part_number (string): Part number of the power supply • revision_number (string): Revision number of the power supply • name (string): Name of the power supply • manufacturer (string): Manufacturer of the power supply • slot (integer): Slot position of the power supply • health (string): Health status of the power supply Supported values are Critical, Error, Warning, and Healthy.

Parameter	Туре	Description
		• missing (boolean): Whether the power supply health status is critical. Supported values are false (not critical) and true (critical)

```
[
     "id": "V0609020000000",
"sn": "V060902",
"description": "Main System Chassis",
"service_tag": "V060902",
"psnt": "V0609020000000",
"model": "VxRail E560",
     "render_category": "DELL_R640",
     "generation": 3,
     "health": "Healthy",
"missing": false,
      "hosts": [
        {
           "id": "V060902",
"sn": "V060902",
           "slot": 1,
           "hostname": "vcluster609-esx02.vv13xapp01.local",
           "name": "vcluster609-esx02.vv13xapp01.local",
           "manufacturer": "Dell Inc.",
           "psnt": "V0609020000000",
           "led_status": "Blue:On",
           "health": "Healthy", "missing": false,
           "tpm_present": false,
"operational_status": "normal",
"power_status": "on",
           "geo location": {
              "rack_name": "V0609",
               "order_number": 2
        }
     ],
"power_supplies": [
           "sn": "V060902PSUSN000",
"part_number": "0CMPGMA01",
           "revision_number": "00.23.32",
           "name": "Power Supply 1",
           "manufacturer": "DELL",
           "slot": 1,
"health": "Healthy",
           "missing": false
           "sn": "V060902PSUSN001",
"part_number": "0CMPGMA01",
           "revision number": "00.23.32",
           "name": "Power Supply 2",
"manufacturer": "DELL",
           "slot": 2,
"health": "Healthy",
           "missing": false
     ]
  }
]
```

400 Bad request

401 Unauthorized request.

UnauthorizedRequestInfo:

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403 Forbidden request.

ForbiddenRequestInfo:

Example:

```
{
  "message": "Access Denied."
}
```

500 Internal server error.

InternalServerErrorInfo:

GET /v3/chassis

Retrieves a list of VxRail chassis and information about every node for each chassis (version 3). Version 3 of this API provides the same chassis information as version 2, plus firmware information for each host.

URL

```
https://<VxRail IP address>/rest/vxm/v3/chassis
```

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.240 and later	

Request

Authorization (Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

200 Successful operation.

[ChassisInfoV3]:

Parameter	Туре	Description
id	string	ID number of the chassis
sn	string	Serial number of the chassis
part_number	string	Part number of the chassis
description	string	Short description of the chassis
service_tag	string	Service tag number of the chassis
psnt	string	Product serial number tag (PSNT) of the chassis
model	string	Model type of the chassis
render_category	string	Dell render category of the chassis
generation	integer	VxRail generation of the chassis
health	string	Health status of the VxRail system
		Supported values are Critical, Error, Warning, and Healthy.
missing	boolean	Whether the chassis health status is critical. Supported values are false (not critical) and true (critical)
hosts	[object]	Information about each VxRail host The hosts object contains the following properties: id (string): ID of the host sn (string): Serial number of the host slot (integer): Rack slot position where the VxRail host appliance is installed hostname (string): Hostname of the host name (string): Name of the host manufacturer (string): Manufacturer of the host psnt (string): PSNT of the host led_status (string): State of the chassis LED indicator for the host health (string): Health status of the host Supported values are Critical, Error, Warning, and Healthy. missing (boolean): Whether the host health status is critical. Supported values are false (not critical) and true (critical) tpm_present (boolean): Whether a TPM security device is installed on the VxRail host

Parameter	Туре	Description
		operational_status (string): Operational status of the host
		• power_status (string): Power supply status of the host
		• firmware_information (object): Information about host firmware
		bios_revision (string): Version of the BIOS firmware
		 bmc_revision (string): Version of the baseboard management controller (BMC) firmware
		 hba_version (string): Version of the host bus adapter (HBA) firmware
		 expander_bpf_version (string): Version of the expander backplane firmware
		 nonexpander_bpf_version (string): Version of the non-expander storage backplane firmware boss_version (string): Version of the BOSS
		firmware o cpld_version (string): Version of the complex logical device (CPLD) firmware
		geo_location (object): Information about the geographical location of the host
		 rack_name (string): Rack name where the host is located
		order_number (integer): Order number of the host
power_supplies	[object]	Information about the chassis power supplies
		The power_supplies object contains the following properties:
		• sn (string): Serial number of the power supply
		 part_number (string): Part number of the power supply
		 revision_number (string): Revision number of the power supply
		• name (string): Name of the power supply
		• manufacturer (string): Manufacturer of the power supply
		slot (integer): Slot position of the power supplyhealth (string): Health status of the power supply
		Supported values are Critical, Error, Warning, and Healthy.
		• missing (boolean): Whether the power supply health status is critical. Supported values are false (not critical) and true (critical)

```
"id": "V0609020000000",
   "sn": "V060902",
   "description": "Main System Chassis",
   "service_tag": "V060902",
```

```
"psnt": "V0609020000000",
     "model": "VxRail E560",
     "render category": "DELL R640",
     "generation": 3,
     "health": "Healthy", "missing": false,
     "hosts": [
          "id": "V060902",
"sn": "V060902",
          "slot": 1,
          "hostname": "vcluster609-esx02.vv13xapp01.local",
          "name": "vcluster609-esx02.vv13xapp01.local", "manufacturer": "Dell Inc.",
          "psnt": "V0609020000000",
          "led_status": "Blue:On",
          "healthy",
          "missing": false,
          "tpm_present": false,
"operational_status": "normal",
          "power_status": "on",
          "firmware information":
            "bios_revision": "2.6.3",
"bmc_revision": "4.10.10.10",
"hba_version": "16.17.00.05",
"expander_bpf_version": "2.46",
"boss_version": "2.5.13.3022"
          "geo_location": {
    "rack_name": "V0609",
             "order_number": 2
        }
     "power_supplies": [
          "sn": "V060902PSUSN000",
          "part_number": "0CMPGMA01",
          "revision_number": "00.23.32",
          "name": "Power Supply 1",
          "manufacturer": "DELL",
          "slot": 1,
          "health": "Healthy",
          "missing": false
          "sn": "V060902PSUSN001",
          "part_number": "0CMPGMA01",
          "revision_number": "00.23.32",
          "name": "\overline{P}ower Supply 2",
          "manufacturer": "DELL",
          "slot": 2,
"health": "Healthy",
          "missing": false
     ]
  }
]
```

400 Bad request

401 Unauthorized request.

UnauthorizedRequestInfo:

```
The detail error message about the unauthorized request.
```

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403 Forbidden request.

ForbiddenRequestInfo:

Example:

```
{
   "message": "Access Denied."
}
```

500 Internal server error.

InternalServerErrorInfo:

```
{
description: Internal server error.
errorCode integer($int32)
message string
}
```

GET /v4/chassis

Retrieves a list of VxRail chassis and information about every node for each chassis (version 4). Version 4 of this API provides the same chassis information as version 3, plus adds support for satellite nodes.

URL

```
https://<VxRail IP address>/rest/vxm/v4/chassis
```

Version support

VxRail Software	Supported versions
VxRail Software 4.5.x	Not supported
VxRail Software 4.7.x	Not supported
VxRail Software 7.0.x	Supported in 7.0.300 and later

Request

Authorization (Required) Username and password encoded with Base64.

Response

200 Successful operation.

[ChassisInfoV4]:

Parameter	Туре	Description
id	string	ID number of the chassis
sn	string	Serial number of the chassis
part_number	string	Part number of the chassis
description	string	Short description of the chassis
service_tag	string	Service tag number of the chassis
psnt	string	Product serial number tag (PSNT) of the chassis
model	string	Model type of the chassis
render_category	string	Dell render category of the chassis
generation	integer	VxRail generation of the chassis
health	string	Health status of the VxRail system
		Supported values are Critical, Error, Warning, and Healthy.
missing	boolean	Whether the chassis health status is critical. Supported values are false (not critical) and true (critical)
hosts	[object]	Information about each VxRail host The hosts object contains the following properties: id (string): ID of the host sn (string): Serial number of the host type (string): Node type. Supported values include CLUSTER and SATELLITE. slot (integer): Rack slot position where the VxRail host appliance is installed hostname (string): Hostname of the host name (string): Name of the host manufacturer (string): Manufacturer of the host psnt (string): PSNT of the host led_status (string): State of the chassis LED indicator for the host health (string): Health status of the host Supported values are Critical, Error, Warning, and Healthy. missing (boolean): Whether the host health status is critical. Supported values are false (not critical) and true (critical) tpm_present (boolean): Whether a TPM security device is installed on the VxRail host operational_status (string): Operational status of the host

Parameter	Туре	Description
		 power_status (string): Power supply status of the host firmware_information (object): Information about host firmware bios_revision (string): Version of the BIOS firmware bmc_revision (string): Version of the baseboard management controller (BMC) firmware hba_version (string): Version of the host bus adapter (HBA) firmware expander_bpf_version (string): Version of the expander backplane firmware nonexpander_bpf_version (string): Version of the non-expander storage backplane firmware boss_version (string): Version of the BOSS firmware cpld_version (string): Version of the complex logical device (CPLD) firmware idsdm_version (string): Version of the IDSDM firmware dcpm_version (string): Version of the DC Persistent Memory (DCPM) firmware perc_version (string): Version of the PERC firmware geo_location (object): Information about the geographical location of the host rack_name (string): Rack name where the host is located order_number (integer): Order number of the host
power_supplies	[object]	<pre>Information about the chassis power supplies The power_supplies object contains the following properties: sn (string): Serial number of the power supply part_number (string): Part number of the power supply revision_number (string): Revision number of the power supply name (string): Name of the power supply manufacturer (string): Manufacturer of the power supply slot (integer): Slot position of the power supply health (string): Health status of the power supply Supported values are Critical, Error, Warning, and Healthy. missing (boolean): Whether the power supply health status is critical. Supported values are false (not critical) and true (critical)</pre>

```
Γ
     "id": "V0609020000000",
     "sn": "V060902",
"description": "Main System Chassis",
"service_tag": "V060902",
"psnt": "V060902000000",
     "model": "VxRail E560"
     "render_category": "DELL R640",
     "generation": 3,
     "health": "Healthy",
"missing": false,
     "hosts": [
           "id": "V060902",
"sn": "V060902",
           "type": "CLUSTER",
           "slot": 1,
"hostname": "vcluster609-esx02.vv13xapp01.local",
           "name": "vcluster609-esx02.vv13xapp01.local", "manufacturer": "Dell Inc.",
           "psnt": "V0609020000000",
           "led status": "Blue:On",
           "health": "Healthy", "missing": false,
           "tpm_present": false,
"operational_status": "normal",
           "power_status": "on",
           "firmware_information": {
             "bios_revision": "2.6.3",
"bmc_revision": "4.10.10.10",
"hba_version": "16.17.00.05",
"expander_bpf_version": "2.46",
              "boss_version": "2.5.13.3022"
           "geo_location": {
    "rack_name": "V0609",
              "order_number": 2
        }
      "power supplies": [
          "sn": "V060902PSUSN000",
           "part number": "OCMPGMA01",
           "revision_number": "00.23.32",
           "name": "Power Supply 1",
           "manufacturer": "DELL",
           "slot": 1,
"health": "Healthy",
           "missing": false
           "sn": "V060902PSUSN001",
           "part_number": "0CMPGMA01"
           "revision number": "00.23.32",
           "name": "Power Supply 2",
           "manufacturer": "DELL",
           "slot": 2,
"health": "Healthy",
           "missing": false
     ]
  }
1
```

400 Bad request

401 Unauthorized request.

UnauthorizedRequestInfo:

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403 Forbidden request.

ForbiddenRequestInfo:

Example:

```
{
   "message": "Access Denied."
}
```

500 Internal server error.

InternalServerErrorInfo:

GET /v1/chassis/{chassis_id}

Retrieves information about a specific VxRail chassis such as PSNT, model, and so on.

URL

```
https://<VxRail IP address>/rest/vxm/v1/chassis/{chassis_id}
```

Version support

VxRail Software	Supported versions
VxRail Software 4.5.x	Not supported
VxRail Software 4.7.x	Supported in 4.7.3xx and later
VxRail Software 7.0.x	Supported in 7.0.000 and later

Request

Authorization

(Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Path parameters

chassis_id : (Required) The chassis ID for the VxRail chassis you want to query.

Parameter	Туре	Description
chassis_id	string	(Required) The chassis ID for the VxRail chassis you want to query

Example:

```
/v1/chassis/CH-ID1
```

Response

200

Successful operation.

ChassisInfo:

```
{
description:
    intion
                  chassis info
                    integer($int32)
generation
                chassis generation
health
                    string
                 chassis health status
                   [...]
hosts
                    string
id
                    boolean
missing
                 chassis is missing or not
model
                    string
                 chassis model
part_number
part_number string
power_supplies [...]
psnt
                    string
                 chassis model
render_category
                    string
                 chassis render category
service tag
                    string
                    string
sn
}
```

```
"sn": "string",
   "tpm_present": true
}

// "id": "string",
   "missing": true,
   "model": "string",
   "part_number": "string",
   "mealth": "string",
        "manufacturer": "string",
        "name": "string",
        "name": "string",
        "part_number": "string",
        "revision_number": "string",
        "sn": "string"
}

// "psnt": "string",
   "render_category": "string",
   "service_tag": "string",
   "sn": "string",
   "service_tag": "string",
   "sn": "string",
```

400 Bad request.

401 Unauthorized request.

UnauthorizedRequestInfo:

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403 Forbidden request.

ForbiddenRequestInfo:

Example:

```
{
   "message": "Access Denied."
}
```

500 Internal server error.

InternalServerErrorInfo:

```
{
description: Internal server error.
errorCode integer($int32)
message string
}
```

Example:

```
{
  "errorCode": 0,
  "message": "string"
}
```

GET /v2/chassis/{chassis_id}

Retrieves information about a specific VxRail chassis such as PSNT, model, and more (version 2).

URL

```
https://<VxRail IP address>/rest/vxm/v2/chassis/{chassis_id}
```

Version support

VxRail Software	Supported versions
VxRail Software 4.5.x	Not supported
VxRail Software 4.7.x	Not supported
VxRail Software 7.0.x	Supported in 7.0.010 and later

Request

Authorization (Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Path parameters chassis_id : (Required) The chassis ID for the VxRail chassis that you want to query.

Parameter	Туре	Description
chassis_id	string	(Required) The chassis ID for the VxRail chassis that you want to query

Example:

```
/v2/chassis/V060902000000
```

Response

200 Successful operation.

[ChassisInfoV2]:

Parameter	Туре	Description
id	string	ID number of the chassis
sn	string	Serial number of the chassis
part_number	string	Part number of the chassis
description	string	Short description of the chassis
service_tag	string	Service tag number of the chassis
psnt	string	Product serial number tag (PSNT) of the chassis
model	string	Model type of the chassis
render_category	string	Dell render category of the chassis
generation	integer	VxRail generation of the chassis
health	string	Health status of the VxRail system
		Supported values are Critical, Error, Warning, and Healthy.
missing	boolean	Whether the chassis health status is critical. Supported values are false (not critical) and true (critical)
hosts	[object]	Information about each VxRail host
		 The hosts object contains the following properties: id (string): ID of the host sn (string): Serial number of the host slot (integer): Rack slot position where the VxRail host appliance is installed hostname (string): Hostname of the host name (string): Name of the host manufacturer (string): Manufacturer of the host psnt (string): PSNT of the host led_status (string): State of the chassis LED indicator for the host health (string): Health status of the host Supported values are Critical, Error, Warning, and Healthy. missing (boolean): Whether the host health status is critical. Supported values are false (not critical) and true (critical) tpm_present (boolean): Whether a TPM security device is installed on the VxRail host operational_status (string): Operational status of the host power_status (string): Power supply status of the host geo_location (object): Information about the geographical location of the host rack_name (string): Rack name where the host is located order_number (integer): Order number of the host
power_supplies	[object]	Information about the chassis power supplies The power_supplies object contains the following properties:

Parameter	Туре	Description
		 sn (string): Serial number of the power supply part_number (string): Part number of the power supply revision_number (string): Revision number of the power supply name (string): Name of the power supply manufacturer (string): Manufacturer of the power supply slot (integer): Slot position of the power supply health (string): Health status of the power supply Supported values are Critical, Error, Warning, and
		Healthy. • missing (boolean): Whether the power supply health status is critical. Supported values are false (not critical) and true (critical)

```
"id": "V0609010000000",
"sn": "V060901",
"description": "Main System Chassis",
"service_tag": "V060901",
"psnt": "V0609010000000",
"model": "VXRail E560",
"render_category": "DELL_R640",
"generation": 3,
"health": "Healthy",
"missing": false,
"hosts": [
      "id": "V060901",
      "sn": "V060901",
      "slot": 1,
      "hostname": "vcluster609-esx01.vv13xapp01.local",
      "name": "vcluster609-esx01.vv13xapp01.local",
      "manufacturer": "Dell Inc.",
      "psnt": "V0609010000000",
      "led_status": "Blue:On",
      "health": "Healthy", "missing": false,
      "tpm_present": false,
"operational_status": "normal",
      "power status": "on",
      "geo_location": {
    "rack_name": "V0609",
         "order_number": 1
  }
],
"power_supplies": [
     "sn": "V060901PSUSN000", "part_number": "0CMPGMA01",
      "revision_number": "00.23.32",
      "name": "Power Supply 1",
"manufacturer": "DELL",
      "slot": 1,
"health": "Healthy",
      "missing": false
      "sn": "V060901PSUSN001",
```

```
"part_number": "0CMPGMA01",
    "revision_number": "00.23.32",
    "name": "Power Supply 2",
    "manufacturer": "DELL",
    "slot": 2,
    "health": "Healthy",
    "missing": false
}
```

400 Bad request.

401 Unauthorized request.

UnauthorizedRequestInfo:

```
{
description: Unauthorized request.
message string
    example: The provided vCenter credentials are not valid.
    The detail error message about the unauthorized request.
}
```

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403 Forbidden request.

ForbiddenRequestInfo:

Example:

```
{
   "message": "Access Denied."
}
```

500 Internal server error.

InternalServerErrorInfo:

```
{
  "errorCode": 0,
  "message": "string"
}
```

GET /v3/chassis/{chassis_id}

Retrieves information about a specific VxRail chassis such as PSNT, model, and more (version 3). Version 3 of this API provides the same chassis information as version 2, plus firmware information for each host.

URL

https://<VxRail IP address>/rest/vxm/v3/chassis/{chassis id}

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.240 and later	

Request

Authorization (Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Path parameters chassis_id : (Required) The chassis ID for the VxRail chassis that you want to query.

Parameter	Туре	Description
chassis_id	string	(Required) The chassis ID for the VxRail chassis that you want to query

Example:

/v2/chassis/V0609020000000

Response

200 Successful operation.

[ChassisInfoV2]:

Parameter	Туре	Description
id	string	ID number of the chassis
sn	string	Serial number of the chassis
part_number	string	Part number of the chassis
description	string	Short description of the chassis
service_tag	string	Service tag number of the chassis
psnt	string	Product serial number tag (PSNT) of the chassis
model	string	Model type of the chassis
render_category	string	Dell render category of the chassis

Parameter	Туре	Description
generation	integer	VxRail generation of the chassis
health	string	Health status of the VxRail system
		Supported values are Critical, Error, Warning, and Healthy.
missing	boolean	Whether the chassis health status is critical. Supported values are false (not critical) and true (critical)
hosts	[object]	Information about each VxRail host
		The hosts object contains the following properties: id (string): ID of the host sn (string): Serial number of the host slot (integer): Rack slot position where the VxRail host appliance is installed hostname (string): Hostname of the host name (string): Name of the host manufacturer (string): Manufacturer of the host psnt (string): PSNT of the host led_status (string): State of the chassis LED indicator for the host health (string): Health status of the host Supported values are Critical, Error, Warning, and Healthy. missing (boolean): Whether the host health status is critical. Supported values are false (not critical) and true (critical) tpm_present (boolean): Whether a TPM security device is installed on the VxRail host operational_status (string): Operational status of the host power_status (string): Power supply status of the host power_status (string): Power supply status of the host firmware_information (object): Information about host firmware bios_revision (string): Version of the BIOS firmware bios_revision (string): Version of the baseboard management controller (BMC) firmware hba_version (string): Version of the host bus adapter (HBA) firmware hap-version (string): Version of the host bus adapter (HBA) firmware nonexpander_bpf_version (string): Version of the expander backplane firmware nonexpander_bpf_version (string): Version of the BOSS firmware conexpander_obgf_version (string): Version of the BOSS firmware cold_version (string): Version of the complex logical device (CPLD) firmware cold_version (string): Version of the complex logical device (CPLD) firmware cold_version (string): Version of the complex logical device (CPLD) firmware cold_version (string): Version of the complex logical device (CPLD) firmware

Parameter	Туре	Description
		o order_number (integer): Order number of the host
power_supplies	[object]	Information about the chassis power supplies
		The power_supplies object contains the following properties: • sn (string): Serial number of the power supply • part_number (string): Part number of the power supply • revision_number (string): Revision number of the power supply • name (string): Name of the power supply • manufacturer (string): Manufacturer of the power supply • slot (integer): Slot position of the power supply • health (string): Health status of the power supply
		Supported values are Critical, Error, Warning, and Healthy.
		• missing (boolean): Whether the power supply health status is critical. Supported values are false (not critical) and true (critical)

```
"id": "V0609010000000",
"sn": "V0609010000000",
"sn": "V060901",
"description": "Main System Chassis",
"service_tag": "V060901",
"psnt": "V0609010000000",
"model": "VxRail E560",
"render_category": "DELL_R640",
"generation": 3,
"health": "Healthy",
"missing": false,
"hosts": [
      "id": "V060901",
"sn": "V060901",
"slot": 1,
       "hostname": "vcluster609-esx01.vv13xapp01.local",
       "name": "vcluster609-esx01.vv13xapp01.local",
       "manufacturer": "Dell Inc.",
       "psnt": "V0609010000000",
       "led_status": "Blue:On",
       "health": "Healthy",
"missing": false,
       "tpm_present": false,
       "operational_status": "normal",
"power_status": "on",
       "firmware_information": {
         "bios_revision": "2.6.3",
"bmc_revision": "4.10.10.10",
"hba_version": "16.17.00.05",
          "expander_bpf_version": "2.46", "boss_version": "2.5.13.3022"
       "geo_location": {
   "rack_name": "V0609",
          "order_number": 1
```

400 Bad request.

401 Unauthorized request.

UnauthorizedRequestInfo:

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403 Forbidden request.

ForbiddenRequestInfo:

Example:

```
{
   "message": "Access Denied."
}
```

500 Internal server error.

InternalServerErrorInfo:

Example:

```
{
  "errorCode": 0,
  "message": "string"
}
```

GET /v4/chassis/{chassis_id}

Retrieves information about a specific VxRail chassis such as PSNT, model, and more (version 4). Version 4 of this API provides the same chassis information as version 3, plus adds support for satellite nodes.

URL

```
https://<VxRail IP address>/rest/vxm/v4/chassis/{chassis_id}
```

Version support

VxRail Software	Supported versions
VxRail Software 4.5.x	Not supported
VxRail Software 4.7.x	Not supported
VxRail Software 7.0.x	Supported in 7.0.300 and later

Request

Authorization (Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Path parameters chassis_id : (Required) The chassis ID for the VxRail chassis that you want to query.

Parameter	Туре	Description
chassis_id	string	(Required) The chassis ID for the VxRail chassis that you want to query

Example:

```
/v2/chassis/V060902000000
```

Response

200 Successful operation.

[ChassisInfoV4]:

Parameter	Туре	Description
id	string	ID number of the chassis
sn	string	Serial number of the chassis
part_number	string	Part number of the chassis
description	string	Short description of the chassis
service_tag	string	Service tag number of the chassis
psnt	string	Product serial number tag (PSNT) of the chassis
model	string	Model type of the chassis
render_category	string	Dell render category of the chassis
generation	integer	VxRail generation of the chassis
health	string	Health status of the VxRail system
		Supported values are Critical, Error, Warning, and Healthy.
missing	boolean	Whether the chassis health status is critical. Supported values are false (not critical) and true (critical)
hosts	[object]	Information about each VxRail host
		 The hosts object contains the following properties: id (string): ID of the host sn (string): Serial number of the host type (string): Node type. Supported values include CLUSTER and SATELLITE. slot (integer): Rack slot position where the VxRail host appliance is installed hostname (string): Hostname of the host name (string): Name of the host manufacturer (string): Manufacturer of the host psnt (string): PSNT of the host led_status (string): State of the chassis LED indicator for the host health (string): Health status of the host Supported values are Critical, Error, Warning, and Healthy. missing (boolean): Whether the host health status is critical. Supported values are false (not critical) and true (critical) tpm_present (boolean): Whether a TPM security device is installed on the VxRail host operational_status (string): Operational status of the host power_status (string): Power supply status of the host firmware_information (object): Information about host firmware bios_revision (string): Version of the BIOS firmware

Parameter	Туре	Description
raiametei	Туре	 bmc_revision (string): Version of the baseboard management controller (BMC) firmware hba_version (string): Version of the host bus adapter (HBA) firmware expander_bpf_version (string): Version of the expander backplane firmware nonexpander_bpf_version (string): Version of the non-expander storage backplane firmware boss_version (string): Version of the BOSS firmware
		 cpld_version (string): Version of the complex logical device (CPLD) firmware idsdm_version (string): Version of the IDSDM firmware dcpm_version (string): Version of the DC Persistent Memory (DCPM) firmware perc_version (string): Version of the PERC firmware geo_location (object): Information about the geographical location of the host rack_name (string): Rack name where the host is located order_number (integer): Order number of the host
power_supplies	[object]	<pre>Information about the chassis power supplies The power_supplies object contains the following properties: sn (string): Serial number of the power supply part_number (string): Part number of the power supply revision_number (string): Revision number of the power supply name (string): Name of the power supply manufacturer (string): Manufacturer of the power supply slot (integer): Slot position of the power supply slot (integer): Health status of the power supply Supported values are Critical, Error, Warning, and Healthy. missing (boolean): Whether the power supply health status is critical. Supported values are false (not critical) and true (critical)</pre>

```
"id": "V0609010000000",
"sn": "V060901",
"description": "Main System Chassis",
"service_tag": "V060901",
"psnt": "V0609010000000",
"model": "VxRail E560",
"render_category": "DELL_R640",
"generation": 3,
```

```
"health": "Healthy",
  "missing": false,
"hosts": [
       "id": "V060901",
"sn": "V060901",
       "type": "CLUSTER",
       "slot": 1,
"hostname": "vcluster609-esx01.vv13xapp01.local",
       "name": "vcluster609-esx01.vv13xapp01.local",
       "manufacturer": "Dell Inc.",
       "psnt": "V0609010000000",
       "led_status": "Blue:On",
       "health": "Healthy",
"missing": false,
       "tpm_present": false,
       "operational status": "normal",
       "power status": "on",
       "firmware_information":
         "bios_revision": "2.6.3",
"bmc_revision": "4.10.10.10",
         "hba_version": "16.17.00.05",
"expander_bpf_version": "2.46",
         "boss version": "2.5.13.3022"
       "geo_location": {
    "rack_name": "V0609",
         "order_number": 1
    }
  "power supplies": [
      "sn": "V060901PSUSN000",
       "part_number": "0CMPGMA01",
       "revision number": "00.23.32",
       "name": "Power Supply 1",
       "manufacturer": "DELL",
       "slot": 1,
       "health": "Healthy",
       "missing": false
       "sn": "V060901PSUSN001",
       "part_number": "0CMPGMA01",
       "revision number": "00.23.32",
       "name": "Power Supply 2",
       "manufacturer": "DELL",
       "slot": 2,
"health": "Healthy",
       "missing": false
    }
  ]
}
```

400 Bad request.

401 Unauthorized request.

UnauthorizedRequestInfo:

```
{
description:
message
Unauthorized request.
string
example: The provided vCenter credentials are not valid.
The detail error message about the unauthorized request.
}
```

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403 Forbidden request.

ForbiddenRequestInfo:

Example:

```
"message": "Access Denied."
}
```

500 Internal server error.

InternalServerErrorInfo:

```
{
description: Internal server error.
errorCode integer($int32)
message string
}
```

Example:

```
{
  "errorCode": 0,
  "message": "string"
}
```

GET /v1/disks

Retrieves a list of disks and their associated information.

URL

```
https://<VxRail IP address>/rest/vxm/v1/disks
```

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Supported in 4.7.3xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 through 7.0.210	
	Deprecated in 7.0.240	

Request

Authorization

(Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

200

Successful operation.

[DiskInfo]: An array of each disk and its associated information

Example:

```
[
    "id": "V060904DVSN02",
    "sn": "V060904DVSN02"
     "guid": "6000c29839d19d07b808fb10fec8a780",
    "disk_type": "HDD",
"protocol": "SAS",
     "enclosure": 0,
    "bay": 1,
"slot": 4,
     "missing": false,
"capacity": "400.0GB"
     "id": "V060904DVSN03",
    "sn": "V060904DVSN03",
     "guid": "6000c2914b4b67792089673f2a9cb2de",
    "disk_type": "SSD",
"protocol": "SAS",
     "enclosure": 0,
    "bay": 1,
"slot": 9,
     "missing": false,
     "capacity": "40.0GB"
]
```

400

Bad request

401

Unauthorized request.

UnauthorizedRequestInfo:

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403

Forbidden request.

ForbiddenRequestInfo:

Example:

```
{
   "message": "Access Denied."
}
```

500

Internal server error.

InternalServerErrorInfo:

Example:

```
"errorCode": 0,
  "message": "string"
}
```

GET /v1/disks/{disk_sn}

Retrieves information about a specific disk such as serial number, usage statistics, and so on.

URL

```
https://<VxRail IP address>/rest/vxm/v1/disk/{disk_sn}
```

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Supported in 4.7.3xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 through 7.0.210	
	Deprecated in 7.0.240	

Request

Authorization

(Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Path parameters disk_sn: (Required) The serial number of the disk you want to query.

Parameter	Туре	Description
disk_sn	string	The serial number of the disk you want to query

Example:

```
/v1/disks/V060902DVSN00
```

Response

200 Successful operation.

DiskInfo:

```
disk infomation
description:
capacity
                                     string
                                  disk capacity
disk_state
                                     string
                                  disk status
disk type
                                     string
                                  disk type
enclosure
                                    integer($int32)
                                  disk enclosure
firmware_revision
                                     string
                                  disk firmware revision
guid
                                    string
id
                                     string
                                  disk id
led status
                                     string
                                  disk led status
manufacturer
                                     string
                                  disk manufacturer
max_capable_speed
                                     string
                                  disk max capable speed
missing
                                    boolean
                                  disk is missing or not
model
                                     string
                                  disk model
protocol
                                     string
                                  disk protocol
remaining_write_endurance_rate
                                     string
                                  disk write endurance remaining rate
slot
                                     integer($int32)
                                  disk slot
                                     string
sn
                                  disk serial number
write endurance
                                     string
                                  disk write endurance
write endurance status
                                    string
                                  disk write endurance status
```

```
"id": "V060902DVSN00",
"sn": "V060902DVSN00",
"guid": "6000c298a4477c10d5d89f963ac4f8aa",
"disk_type": "HDD",
"protocol": "SAS",
"enclosure": 0,
"bay": 1,
"slot": 0,
```

```
"missing": false,
  "capacity": "400.0GB"
}
```

400

Bad request.

401

Unauthorized request.

UnauthorizedRequestInfo:

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403

Forbidden request.

ForbiddenRequestInfo:

Example:

```
{
  "message": "Access Denied."
}
```

500

Internal server error.

InternalServerErrorInfo:

```
{
description: Internal server error.
errorCode integer($int32)
message string
}
```

```
{
  "errorCode": 0,
  "message": "string"
}
```

GET /v1/hosts

Retrieves a list of VxRail hosts and their associated subcomponent information.

URL

https://<VxRail IP address>/rest/vxm/v1/hosts

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Supported in 4.7.3xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization

(Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

200

Successful operation.

Host: [array]

```
"boot_devices": [
     "avr_erase_count": 0,
     "block_size": "string",
     "bootdevice_type": "string",
"capacity": "string",
     "device_model": "string",
     "firmware_version": "string",
"health": "string",
     "id": "string",
     "max_erase_count": 0,
     "power_cycle_count": 0,
     "power_on_hours": 0,
     "sata_type": "string",
"slot": 0,
"sn": "string"
"disks": [
     "capacity": "string",
"disk_state": "string",
"disk_type": "string",
     "enclosure": 0,
     "firmware_revision": "string",
     "guid": "string",
```

```
"id": "string",
"led_status": "string",
"manufacturer": "string",
              "max capable_speed": "string",
              "missing": true,
"model": "string"
              "protocol": "string",
              "remaining_write_endurance_rate": "string",
             "slot": 0,
"sn": "string",
              "write endurance": "string",
              "write_endurance_status": "string"
      "firmwareInfo": {
    "bios_revision": "string",
    "bmc_revision": "string",
    "boss_version": "string",
    "cpld_version": "string",
    "expander_bpf_version": "string",
    "hba_version": "string",
    "idsdm_version": "string",
          "idsdm version": "string",
          "nonexpander_bpf_version": "string"
      "health": "string",
"hostname": "string",
      "id": "string",
"led_status": "string",
      "manufacturer": "string",
      "missing": true,
"name": "string",
       "nics": [
          {
              "firmware_family_version": "string",
             "id": "string",
"link_speed": "string",
"link_status": "string",
             "mac": "string",
"slot": 0
          }
      "operational_status": "string",
"part_number": "string",
      "power_status": "string",
      "psnt": "string",
"slot": 0,
"sn": "string",
      "tpm_present": true
]
```

400 Bad request

401 Unauthorized request.

UnauthorizedRequestInfo:

```
{
description: Unauthorized request.
message string
    example: The provided vCenter credentials are not valid.
    The detail error message about the unauthorized request.
}
```

```
{
  "message": "The provided vCenter credentials are not valid."
}
```

403

Forbidden request.

ForbiddenRequestInfo:

Example:

```
{
   "message": "Access Denied."
}
```

404

Host not found.

500

Internal server error.

InternalServerErrorInfo:

Example:

```
{
  "errorCode": 0,
  "message": "string"
}
```

GET /v2/hosts

Retrieves a list of VxRail hosts and the associated subcomponent information (version 2).

URL

```
https://<VxRail IP address>/rest/vxm/v2/hosts
```

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.010 and later	

Request

Authorization

(Required) Username and password encoded with Base64.

Response

200 Successful operation.

 $\hbox{\tt [HostV2]: An array of VxRail hosts and the associated information for each host}$

Parameter	Туре	Description
id	string	ID number of the host
sn	string	Serial number of the host
slot	integer	Rack slot position where the VxRail host appliance is installed
hostname	string	Hostname of the host
name	string	Name of the host
manufacturer	string	Manufacturer of the host
psnt	string	Product serial number tag (PSNT) of the host
led_status	string	State of the chassis LED indicator for the host
health	string	Health status of the VxRail system
		Supported values are Critical, Error, Warning, and Healthy.
missing	boolean	Whether the chassis health status is critical. Supported values are false (not critical) and true (critical)
tpm_present	boolean	Whether a TPM security device is installed on the VxRail host
operational_status	string	Operational status of the host
part_number	string	Part number of the host
power_status	string	Power supply status of the host
boot_devices	[object]	Information about each boot device on the VxRail host
		The boot_devices object contains the following properties: id (string): ID of the boot device sn (string): Serial number of the boot device device_model (string): Model number of the boot device sata_type (string): Type of disk drive of the device power_on_hours (integer): Number of hours the device is powered on power_cycle_count (integer): Number of times of the device power cycled max_erase_count (integer): Maximum erase count for the device avr_erase_count (integer): Average erase count for the device block_size (string): Block size of the disk device capacity (string): Capacity of the device disk

Parameter	Туре	Description
		 health (string): Health status of the boot device (percentage) firmware_version (string): Version of the firmware for the boot device bootdevice_type (string): Type of boot device solution slot (integer): The slot position of the boot device
nics	[object]	Information about each NIC on the VxRail host The nics object contains the following properties: id (string): ID of the NIC mac (string): MAC address of the NIC link_status (string): The link status of the NIC link_speed (string): The link speed of the NIC slot (integer): The slot position of the NIC firmware_family_version (string): Version of the firmware for the NIC
disks	[object]	Information about each disk installed in the VxRail host The disks object contains the following properties: id (string): ID of the disk sn (string): Serial number of the disk manufacturer (string): Manufacturer of the disk model (string): Model of the disk disk_type (string): Type of disk drive protocol (string): Type of transport protocol max_capable_speed (string): Maximum capable speed of the disk enclosure (integer): Enclosure where the disk is installed slot (integer): Slot where the disk is installed psnt (string): PSNT of the disk disk_state (string): Health state of the disk led_status (string): State of the chassis LED indicator for the disk missing (boolean): Whether the disk health status is critical. Supported values are false (not critical) and true (critical) capacity (string): Capacity of the disk write_endurance (string): Write endurance of the disk (usage percentage) write_endurance_status (string): Status of the write endurance of the disk remaining_write_endurance_rate (string): Remaining write endurance of the disk (percentage remaining) firmware_revision (string): Version of the firmware for the disk
firmwareInfo	object	Information about the firmware versions installed on the host

Parameter	Туре	Description
		The firmwareInfo object contains the following properties:
		bios_revision (string): Version of the BIOS firmware
		 bmc_revision (string): Version of the baseboard management controller (BMC) firmware
		 hba_version (string): Version of the host bus adapter (HBA) firmware
		 expander_bpf_version (string): Version of the expander backplane firmware
		 nonexpander_bpf_version (string): Version of the non-expander storage backplane firmware
		 boss_version (string): Version of the BOSS firmware
		 cpld_version (string): Version of the complex logical device (CPLD) firmware
		idsdm_version (string): Version of the internal dual SD module (IDSDM) firmware
geo_location	object	Information about the geographical location of the host
		The geo_location object contains the following properties:
		 rack_name (string): Rack name where the host is located
		order_number (integer): Order number of the host

```
[
     "id": "V060902",
"sn": "V060902",
      "slot": 1,
"hostname": "vcluster609-esx02.vv13xapp01.local",
      "name": "vcluster609-esx02.vv13xapp01.local",
      "manufacturer": "Dell Inc.",
"psnt": "V0609020000000",
      "led status": "Blue:On",
      "health": "Healthy", "missing": false,
      "tpm_present": false,
"operational_status": "normal",
      "power_status": "on",
"boot_devices": [
             "id": "18331E196141",
"sn": "18331E196141",
             "device_model": "MTFDDAV240TCB",
             "sata_type": "SSD",
"capacity": "223.57GB",
"health": "100%",
             "firmware_version": "D0DE008",
"bootdevice_type": "B0SS"
         },
             "id": "18331E18542B",
"sn": "18331E18542B",
             "device_model": "MTFDDAV240TCB",
"sata_type": "SSD",
"capacity": "223.57GB",
```

```
"health": "100%",
      "firmware_version": "DODE008",
      "bootdevice_type": "BOSS"
],
"nics": [
  {
     "id": "E4:43:4B:3D:05:30",
      "mac": "E4:43:4B:3D:05:30",
     "link_status": "Up",
"link_speed": "10 Gbps",
      "slot": 1,
      "firmware_family_version": "19.5.12"
     "id": "E4:43:4B:3D:05:31",
"mac": "E4:43:4B:3D:05:31",
     "link_status": "Up",
"link_speed": "10 Gbps",
"slot": 2,
      "firmware_family_version": "19.5.12"
],
"disks": [
  "id": "V060902DVSN00",
     "sn": "V060902DVSN00",
      "guid": "6000c298a4477c10d5d89f963ac4f8aa",
      "manufacturer": "SAMSUNG"
      "model": "MZILS1T9HEJH0D3",
      "disk_type": "HDD",
      "protocol": "SAS",
     "max_capable_speed": "12 Gb/s",
"enclosure": 0,
      "bay": 1,
      "slot": 0,
     "disk_state": "OK",
"led_status": "Green:On",
"missing": false,
      "capacity": "400.0GB",
      "firmware_revision": "DSL7"
     "id": "V060902DVSN01", "sn": "V060902DVSN01",
      "guid": "6000c2972a17c1e736830d5e6f32b80e",
      "manufacturer": "TOSHIBA",
      "model": "PX05SMB040Y",
      "disk_type": "SSD",
"protocol": "SAS",
      "max_capable_speed": "12 Gb/s",
      "enclosure": 0,
      "bay": 1,
"slot": 8,
      "disk_state": "OK",
"led_status": "Green:On",
     "missing": false,
"capacity": "40.0GB"
      "write_endurance": "3",
     "remaining_write_endurance_rate": "97%",
"firmware_revision": "AS0E"
"firmwareInfo": {
  "bios_revision": "2.6.3",
"bmc_revision": "4.10.10.10",
"hba_version": "16.17.00.05",
  "expander_bpf_version": "2.46",
"boss_version": "2.5.13.3022",
"cpld_version": "1.0.2",
   "idsdm version": "1.9"
```

```
},
   "geo_location": {
        "rack_name": "V0609",
        "order_number": 2
    }
}
```

400 Bad request

401 Unauthorized request.

UnauthorizedRequestInfo:

Example:

```
{
  "message": "The provided vCenter credentials are not valid."
}
```

403 Forbidden request.

ForbiddenRequestInfo:

Example:

```
{
   "message": "Access Denied."
}
```

404 Host not found.

500 Internal server error.

InternalServerErrorInfo:

```
{
  "errorCode": 0,
  "message": "string"
}
```

GET /v3/hosts

Retrieves a list of VxRail hosts and the associated subcomponent information (version 3).

URL

https://<VxRail IP address>/rest/vxm/v3/hosts

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.130 and later	

Request

Authorization (Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

200 Successful operation.

 $\hbox{\tt [HostV3]: An array of VxRail hosts and the associated information for each host}$

Parameter	Туре	Description
id	string	ID number of the host
sn	string	Serial number of the host
slot	integer	Rack slot position where the VxRail host appliance is installed
hostname	string	Hostname of the host
name	string	Name of the host
manufacturer	string	Manufacturer of the host
psnt	string	Product serial number tag (PSNT) of the host
led_status	string	State of the chassis LED indicator for the host
health	string	Health status of the VxRail system
		Supported values are Critical, Error, Warning, and Healthy.
missing	boolean	Whether the chassis health status is critical. Supported values are false (not critical) and true (critical)
tpm_present	boolean	Whether a TPM security device is installed on the VxRail host
operational_status	string	Operational status of the host

Parameter	Туре	Description
part_number	string	Part number of the host
power_status	string	Power supply status of the host
boot_devices	[object]	Information about each boot device on the VxRail host
		The boot_devices object contains the following properties: id (string): ID of the boot device sn (string): Serial number of the boot device device_model (string): Model number of the boot device sata_type (string): Type of disk drive of the device power_on_hours (integer): Number of hours the device is powered on power_cycle_count (integer): Number of times of the device power cycled max_erase_count (integer): Maximum erase count for the device avr_erase_count (integer): Average erase count for the device block_size (string): Block size of the disk device capacity (string): Capacity of the device disk health (string): Health status of the boot device (percentage) firmware_version (string): Version of the firmware for the boot device bootdevice_type (string): Type of boot device solution slot (integer): The slot position of the boot device
nics	[object]	Information about each NIC on the VxRail host The nics object contains the following properties: id (string): ID of the NIC mac (string): MAC address of the NIC link_status (string): The link status of the NIC link_speed (string): The link speed of the NIC slot (integer): The slot position of the NIC firmware_family_version (string): Version of the firmware for the NIC
disks	[object]	Information about each disk installed in the VxRail host The disks object contains the following properties: id (string): ID of the disk sn (string): Serial number of the disk guid (string): Global unique identifier of the disk manufacturer (string): Manufacturer of the disk model (string): Model of the disk disk_type (string): Type of disk drive protocol (string): Type of transport protocol max_capable_speed (string): Maximum capable speed of the disk enclosure (integer): Enclosure where the disk is installed

Parameter	Туре	Description
		 slot (integer): Slot where the disk is installed psnt (string): PSNT of the disk disk_state (string): Health state of the disk led_status (string): State of the chassis LED indicator for the disk missing (boolean): Whether the disk health status is critical. Supported values are false (not critical) and true (critical) capacity (string): Capacity of the disk write_endurance (string): Write endurance of the disk (usage percentage) write_endurance_status (string): Status of the write endurance rateof the disk (string): Remaining write endurance of the disk (percentage remaining) firmware_revision (string): Version of the firmware for the disk disk_claim_type (string): Usage type claimed for the disk. Disks can be claimed as vSAN or non-vSAN
firmwareInfo	object	Information about the firmware versions installed on the host The firmwareInfo object contains the following properties: • bios_revision (string): Version of the BIOS firmware • bmc_revision (string): Version of the baseboard management controller (BMC) firmware • hba_version (string): Version of the host bus adapter (HBA) firmware • expander_bpf_version (string): Version of the expander backplane firmware • nonexpander_bpf_version (string): Version of the non-expander storage backplane firmware • boss_version (string): Version of the BOSS firmware • cpld_version (string): Version of the complex logical device (CPLD) firmware • idsdm_version (string): Version of the internal dual SD module (IDSDM) firmware • dcpm_version (string): Version of the DC Persistent Memory (DCPM) firmware
geo_location	object	Information about the geographical location of the host The geo_location object contains the following properties: • rack_name (string): Rack name where the host is located • order_number (integer): Order number of the host

```
"id": "V060902",
"sn": "V060902",
"slot": 1,
"hostname": "vcluster609-esx02.vv13xapp01.local",
"name": "vcluster609-esx02.vv13xapp01.local",
"manufacturer": "Dell Inc.",
"psnt": "V0609020000000",
"led_status": "Blue:On",
"healthy",
"missing": false,
"tpm_present": false,
"operational_status": "normal",
"power status": "on",
"boot devices": [
     "id": "18331E196141",
     "sn": "18331E196141",
     "device_model": "MTFDDAV240TCB",
     "sata_type": "SSD",
"capacity": "223.57GB",
     "health": "100%",
     "firmware_version": "D0DE008",
     "bootdevice_type": "BOSS"
  },
     "id": "18331E18542B",
"sn": "18331E18542B",
     "device model": "MTFDDAV240TCB",
     "sata_type": "SSD",
"capacity": "223.57GB",
"health": "100%",
     "firmware_version": "D0DE008",
     "bootdevice_type": "BOSS"
],
"nics": [
    "id": "E4:43:4B:3D:05:30",
"mac": "E4:43:4B:3D:05:30",
     "link_status": "Up"
     "link_speed": "10 Gbps", "slot": 1,
     "firmware_family_version": "19.5.12"
     "id": "E4:43:4B:3D:05:31",
     "mac": "E4:43:4B:3D:05:31",
     "link_status": "Up",
     "link speed": "10 Gbps",
     "slot": 2,
     "firmware_family_version": "19.5.12"
"disks": [
    "id": "V060902DVSN00", "sn": "V060902DVSN00",
     "guid": "6000c298a4477c10d5d89f963ac4f8aa",
     "manufacturer": "SAMSUNG",
     "model": "MZILS1T9HEJH0D3",
     "disk_type": "HDD",
"protocol": "SAS",
     "max_capable_speed": "12 Gb/s",
     "enclosure": 0,
     "bay": 1,
     "slot": 0,
     "disk_state": "OK",
"led_status": "Green:On",
     "missing": false,
"capacity": "400.0GB",
```

```
"firmware revision": "DSL7"
            "id": "V060902DVSN01", "sn": "V060902DVSN01",
            "guid": "6000c2972a17c1e736830d5e6f32b80e",
            "manufacturer": "TOSHIBA",
            "model": "PX05SMB040Y",
            "disk_type": "SSD",
"protocol": "SAS",
            "max capable speed": "12 Gb/s",
            "enclosure": 0,
            "bay": 1,
"slot": 8,
            "disk_state": "OK",
"led_status": "Green:On",
            "missing": false,
"capacity": "40.0GB"
            "write_endurance": "3",
            "remaining_write_endurance_rate": "97%",
            "firmware_revision": "ASOE",
            "disk_claim_type": "vSAN"
     "bios_revision": "2.6.3",
"bmc_revision": "4.10.10.10",
"hba_version": "16.17.00.05",
"expander_bpf_version": "2.46",
"boss_version": "2.5.13.3022",
"cpld_version": "1.0.2",
"idsdm_version": "1.0.2",
         "idsdm version": "1.9"
      "geo_location": {
    "rack_name": "V0609",
         "order_number": 2
  }
]
```

400 Bad request

401 Unauthorized request.

UnauthorizedRequestInfo:

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403 Forbidden request.

ForbiddenRequestInfo:

```
The detail error message about the forbidden request.
```

```
{
   "message": "Access Denied."
}
```

404 Host not found.

500 Internal server error.

InternalServerErrorInfo:

Example:

```
{
  "errorCode": 0,
  "message": "string"
}
```

GET /v4/hosts

Retrieves a list of VxRail hosts and the associated subcomponent information (version 4).

URL

```
https://<VxRail IP address>/rest/vxm/v4/hosts
```

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.210 and later	

Request

Authorization (Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

200 Successful operation.

[HostV4]: An array of VxRail hosts and the associated information for each host

Parameter	Туре	Description
id	string	ID number of the host
sn	string	Serial number of the host
slot	integer	Rack slot position where the VxRail host appliance is installed
hostname	string	Hostname of the host
name	string	Name of the host
manufacturer	string	Manufacturer of the host
psnt	string	Product serial number tag (PSNT) of the host
led_status	string	State of the chassis LED indicator for the host
health	string	Health status of the VxRail system
		Supported values are Critical, Error, Warning, and Healthy.
missing	boolean	Whether the chassis health status is critical. Supported values are false (not critical) and true (critical)
tpm_present	boolean	Whether a TPM security device is installed on the VxRail host
operational_status	string	Operational status of the host
power_status	string	Power supply status of the host
boot_devices	[object]	Information about each boot device on the VxRail host
		The boot_devices object contains the following properties: id (string): ID of the boot device sn (string): Serial number of the boot device device_model (string): Model number of the boot device sata_type (string): Type of disk drive of the device power_on_hours (integer): Number of hours the device is powered on power_cycle_count (integer): Number of times of the device power cycled max_erase_count (integer): Maximum erase count for the device avr_erase_count (integer): Average erase count for the device capacity (string): Capacity of the device disk health (string): Health status of the boot device (percentage) firmware_version (string): Version of the firmware for the boot device bootdevice_type (string): Type of boot device solution block_size (string): Block size of boot device status (string): Status of the boot device

Parameter	Туре	Description
		 part_number (string): Part number of the boot device manufacturer (string): Manufacturer of boot device controller_firmware (string): Controller firmware version of boot device controller_model (string): Controller model of boot device controller_status (string): Controller status of boot device
nics	[object]	Information about each NIC on the VxRail host The nics object contains the following properties: id (string): ID of the NIC mac (string): MAC address of the NIC link_status (string): The link status of the NIC link_speed (string): The link speed of the NIC slot (integer): The slot position of the NIC firmware_family_version (string): Version of the firmware for the NIC
disks	[object]	Information about each disk installed in the VxRail host The disks object contains the following properties: id (string): ID of the disk sn (string): Serial number of the disk manufacturer (string): Manufacturer of the disk model (string): Model of the disk disk_type (string): Type of disk drive protocol (string): Type of transport protocol max_capable_speed (string): Maximum capable speed of the disk enclosure (integer): Enclosure where the disk is installed slot (integer): Slot where the disk is installed slot (integer): Slot where the disk is installed psnt (string): PSNT of the disk disk_state (string): Health state of the disk led_status (string): State of the chassis LED indicator for the disk missing (boolean): Whether the disk health status is critical. Supported values are false (not critical) and true (critical) capacity (string): Capacity of the disk write_endurance (string): Write endurance of the disk (usage percentage) write_endurance_status (string): Status of the write endurance remaining_write_endurance_rateof the disk (percentage remaining) firmware_revision (string): Version of the firmware for the disk disk_claim_type (string): Usage type claimed for the disk. Disks can be claimed as vSAN or non-vSAN

Parameter	Туре	Description
firmwareInfo	object	Information about the firmware versions installed on the host
		The firmwareInfo object contains the following properties: • bios_revision (string): Version of the BIOS firmware • bmc_revision (string): Version of the baseboard management controller (BMC) firmware • hba_version (string): Version of the host bus adapter (HBA) firmware • expander_bpf_version (string): Version of the expander backplane firmware • nonexpander_bpf_version (string): Version of the non-expander storage backplane firmware • boss_version (string): Version of the BOSS firmware • cpld_version (string): Version of the complex logical device (CPLD) firmware • idsdm_version (string): Version of the internal dual SD module (IDSDM) firmware • dcpm_version (string): Version of the DC Persistent Memory (DCPM) firmware
geo_location	object	Information about the geographical location of the host The geo_location object contains the following properties: • rack_name (string): Rack name where the host is located • order_number (integer): Order number of the host
drive_configuration	object	Information about the drive configuration on the host The drive_configuration object contains the following properties: • type (string): Type of disk group configuration

```
"power_cycle_count": 1,
      "power_cycle_count": 1,
"max_erase_count": 1,
"avr_erase_count": 1,
"capacity": "480103981056",
"health": "string",
"firmware_version": "2.5.13.4008",
"bootdevice_type": "string",
"block_size": "512",
"slot": 1,
"status": "NORMAL",
      "part_number": "TW07FXC3PIHiT0440", "manufacturer": "INTEL",
      "controller_model": "BOSS-S2",
      "controller_status": "NORMAL"
      "id": "18331E18542B",
"sn": "18331E18542B",
      "device model": "MTFDDAV240TCB",
      "sata_type": "SSD",
      "power_on_hours": 1,
"power_cycle_count": 1,
      "max_erase_count": 1,
     "max_erase_count": 1,
"avr_erase_count": 1,
"capacity": "480103981056",
"health": "string",
"firmware_version": "2.5.13.4008",
"bootdevice_type": "string",
"block_size": "512",
"slot": 1
      "slot": 1,
"status": "NORMAL",
      "part_number": "TW07FXC3PIHiT0440", "manufacturer": "INTEL",
      "controller_firmware": "2.5.13.4008",
      "controller_model": "BOSS-S2",
"controller_status": "NORMAL"
  }
"nics": [
     "id": "E4:43:4B:3D:05:30",
"mac": "E4:43:4B:3D:05:30",
      "link_status": "Up",
      "link_speed": "10 Gbps",
"slot": 1,
      "firmware_family_version": "19.5.12"
      "id": "E4:43:4B:3D:05:31",
      "mac": "E4:43:4B:3D:05:31",
      "link_status": "Up",
      "link_speed": "10 Gbps",
"slot": 2,
      "firmware family version": "19.5.12"
"disks": [
      "id": "V060902DVSN00",
      "sn": "V060902DVSN00",
      "guid": "6000c298a4477c10d5d89f963ac4f8aa",
      "manufacturer": "SAMSUNG"
      "model": "MZILS1T9HEJH0D3",
      "disk_type": "HDD",
"protocol": "SAS",
      "max capable_speed": "12 Gb/s",
      "enclosure": 0,
      "bay": 1,
      "slot": 0,
      "disk_state": "OK",
```

```
"led status": "Green:On",
          "missing": false,
"capacity": "400.0GB",
          "firmware revision": "DSL7"
         "id": "V060902DVSN01", "sn": "V060902DVSN01",
          "guid": "6000c2972a17c1e736830d5e6f32b80e",
          "manufacturer": "TOSHIBA",
          "model": "PX05SMB040Y",
          "disk_type": "SSD",
          "protocol": "SAS",
          "max_capable_speed": "12 Gb/s",
          "enclosure": 0,
         "bay": 1,
"slot": 8,
          "disk_state": "OK",
"led_status": "Green:On",
          "missing": false,
"capacity": "40.0GB",
          "write_endurance": "3",
          "remaining_write_endurance_rate": "97%",
          "firmware_revision": "ASOE",
          "disk_claim_type": "vSAN"
    "expander_bpf_version": "2.46",
"boss_version": "2.5.13.3022",
"cpld_version": "1.0.2",
       "idsdm_version": "1.9"
    "geo_location": {
    "rack_name": "V0609",
       "order_number": 2
     "drive_configuration": {
       "type": "2401"
]
```

400 Bad request

401 Unauthorized request.

UnauthorizedRequestInfo:

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403 Forbidden request.

ForbiddenRequestInfo:

```
{
description: Forbidden request.
message string
    example: Access Denied.
    The detail error message about the forbidden request.
}
```

Example:

```
{
   "message": "Access Denied."
}
```

404

Host not found.

500

Internal server error.

InternalServerErrorInfo:

Example:

```
{
  "errorCode": 0,
  "message": "string"
}
```

GET /v5/hosts

Retrieves a list of VxRail hosts and the associated subcomponent information (version 5). Version 5 of this API provides the same host information as version 4, plus adds support for satellite nodes.

URL

```
https://<VxRail IP address>/rest/vxm/v5/hosts
```

Version support

VxRail Software	Supported versions
VxRail Software 4.5.x	Not supported
VxRail Software 4.7.x	Not supported
VxRail Software 7.0.x	Supported in 7.0.300 and later

Request

Authorization

(Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Response

200 Successful operation.

[HostV4]: An array of VxRail hosts and the associated information for each host

Parameter	Туре	Description
id	string	ID number of the host
sn	string	Serial number of the host
type	string	Node type. Supported values include CLUSTER and SATELLITE
slot	integer	Rack slot position where the VxRail host appliance is installed
hostname	string	Hostname of the host
name	string	Name of the host
manufacturer	string	Manufacturer of the host
psnt	string	Product serial number tag (PSNT) of the host
led_status	string	State of the chassis LED indicator for the host
health	string	Health status of the VxRail system
		Supported values are Critical, Error, Warning, and Healthy.
missing	boolean	Whether the chassis health status is critical. Supported values are false (not critical) and true (critical)
tpm_present	boolean	Whether a TPM security device is installed on the VxRail host
operational_status	string	Operational status of the host
power_status	string	Power supply status of the host
boot_devices	[object]	Information about each boot device on the VxRail host
		The boot_devices object contains the following properties: • id (string): ID of the boot device • sn (string): Serial number of the boot device • device_model (string): Model number of the boot device • sata_type (string): Type of disk drive of the device • power_on_hours (integer): Number of hours the device is powered on • power_cycle_count (integer): Number of times of the device power cycled • max_erase_count (integer): Maximum erase count for the device • avr_erase_count (integer): Average erase count for the device • capacity (string): Capacity of the device disk • health (string): Health status of the boot device (percentage) • firmware_version (string): Version of the firmware for the boot device

Parameter	Туре	Description
		 bootdevice_type (string): Type of boot device solution block_size (string): Block size of boot device slot (integer): The slot position of the boot device status (string): Status of the boot device part_number (string): Part number of the boot device manufacturer (string): Manufacturer of boot device controller_firmware (string): Controller firmware version of boot device controller_model (string): Controller model of boot device controller_status (string): Controller status of boot device
nics	[object]	Information about each NIC on the VxRail host The nics object contains the following properties: id (string): ID of the NIC mac (string): MAC address of the NIC link_status (string): The link status of the NIC link_speed (string): The link speed of the NIC slot (integer): The slot position of the NIC firmware_family_version (string): Version of the firmware for the NIC
disks	[object]	Information about each disk installed in the VxRail host The disks object contains the following properties: id (string): ID of the disk sn (string): Serial number of the disk manufacturer (string): Manufacturer of the disk model (string): Model of the disk disk_type (string): Type of disk drive protocol (string): Type of transport protocol max_capable_speed (string): Maximum capable speed of the disk enclosure (integer): Enclosure where the disk is installed slot (integer): Slot where the disk is installed psnt (string): PSNT of the disk disk_state (string): Health state of the disk led_status (string): State of the chassis LED indicator for the disk missing (boolean): Whether the disk health status is critical. Supported values are false (not critical) and true (critical) capacity (string): Capacity of the disk write_endurance (string): Write endurance of the disk (usage percentage) write_endurance_status (string): Status of the write endurance remaining_write_endurance_rateof the disk

Parameter	Туре	Description
		(string): Remaining write endurance of the disk (percentage remaining) firmware_revision (string): Version of the firmware for the disk disk_claim_type (string): Usage type claimed for the disk. Disks can be claimed as vSAN or non-vSAN
firmwareInfo	object	Information about the firmware versions installed on the host
		The firmwareInfo object contains the following properties:
		bios_revision (string): Version of the BIOS firmware
		bmc_revision (string): Version of the baseboard management controller (BMC) firmware
		hba_version (string): Version of the host bus adapter (HBA) firmware
		• expander_bpf_version (string): Version of the expander backplane firmware
		 nonexpander_bpf_version (string): Version of the non-expander storage backplane firmware boss_version (string): Version of the BOSS firmware
		• cpld_version (string): Version of the complex logical device (CPLD) firmware
		• idsdm_version (string): Version of the internal dual SD module (IDSDM) firmware
		• dcpm_version (string): Version of the DC Persistent Memory (DCPM) firmware
		perc_version (string): Version of the PERC firmware
geo_location	object	Information about the geographical location of the host
		The geo_location object contains the following properties:
		rack_name (string): Rack name where the host is located
		• order_number (integer): Order number of the host
drive_configuration	object	Information about the drive configuration on the host The drive configuration object contains the
		following properties: type (string): Type of disk group configuration

```
[
    "id": "V060902",
    "sn": "V060902",
    "type": "CLUSTER",
    "slot": 1,
    "hostname": "vcluster609-esx02.vv13xapp01.local",
    "name": "vcluster609-esx02.vv13xapp01.local",
    "manufacturer": "Dell Inc.",
    "psnt": "V0609020000000",
    "led_status": "Blue:On",
```

```
"health": "Healthy",
"missing": false,
"tpm present": false,
"operational status": "normal",
"power_status": "on",
"boot_devices": [
   {
      "id": "18331E196141",
"sn": "18331E196141",
       "device model": "MTFDDAV240TCB",
       "sata_type": "SSD",
       "power_on_hours": 1,
"power_cycle_count": 1,
       "max_erase_count": 1,
      "max_erase_count": 1,
"avr_erase_count": 1,
"capacity": "480103981056",
"health": "string",
"firmware_version": "2.5.13.4008",
"bootdevice_type": "string",
"block_size": "512",
"slot": 1,
"status": "NORMAL"
       "status": "NORMAL",
       "part_number": "TW07FXC3PIHiT0440",
"manufacturer": "INTEL",
       "controller_model": "2.5.13.4008",
"controller_model": "BOSS-S2",
       "controller_status": "NORMAL"
   {
      "id": "18331E18542B",
       "sn": "18331E18542B",
       "device model": "MTFDDAV240TCB",
       "sata_type": "SSD",
       "power_on_hours": 1,
       "power_cycle_count": 1,
       "max_erase_count": 1,
      "max_erase_count": 1,
"avr_erase_count": 1,
"capacity": "480103981056",
"health": "string",
"firmware_version": "2.5.13.4008",
"bootdevice_type": "string",
"block_size": "512",
"slot": 1,
"status": "NOPMAL"
       "status": "NORMAL",
      "part_number": "TW07FXC3PIHiT0440",
"manufacturer": "INTEL",
"controller_firmware": "2.5.13.4008",
"controller_model": "BOSS-S2",
"controller_status": "NORMAL"
"nics": [
      "id": "E4:43:4B:3D:05:30",
      "mac": "E4:43:4B:3D:05:30",
"link_status": "Up",
"link_speed": "10 Gbps",
       "slot": 1,
       "firmware_family_version": "19.5.12"
       "id": "E4:43:4B:3D:05:31",
"mac": "E4:43:4B:3D:05:31",
       "link_status": "Up",
       "link_speed": "10 Gbps",
"slot": 2,
       "firmware_family_version": "19.5.12"
"disks": [
```

```
"id": "V060902DVSN00",
          "sn": "V060902DVSN00"
          "guid": "6000c298a4477c10d5d89f963ac4f8aa",
          "manufacturer": "SAMSUNG",
          "model": "MZILS1T9HEJH0D3",
          "disk_type": "HDD",
"protocol": "SAS",
          "max_capable_speed": "12 Gb/s",
          "enclosure": 0,
          "bay": 1,
          "slot": 0,
          "disk_state": "OK",
"led_status": "Green:On",
          "missing": false,
          "capacity": "400.0GB",
          "firmware_revision": "DSL7"
       },
         "id": "V060902DVSN01",
         "sn": "V060902DVSN01",
          "guid": "6000c2972a17c1e736830d5e6f32b80e",
          "manufacturer": "TOSHIBA",
          "model": "PX05SMB040Y",
          "disk_type": "SSD",
          "protocol": "SAS",
          "max_capable_speed": "12 Gb/s",
          "enclosure": 0,
          "bay": 1,
"slot": 8,
         "disk_state": "OK",
"led_status": "Green:On",
          "missing": false,
"capacity": "40.0GB"
          "write_endurance": "3",
          "remaining_write_endurance_rate": "97%",
         "firmware_revision": "ASOE",
"disk_claim_type": "vSAN"
    "firmwareInfo": {
       "bios_revision": "2.6.3",
       "bmc_revision": "4.10.10.10", "hba_version": "16.17.00.05",
       "expander bpf version": "2.46",
       "boss_version": "2.5.13.3022", "cpld_version": "1.0.2",
       "idsdm version": "1.9"
    "geo_location": {
    "rack_name": "V0609",
       "order_number": 2
     "drive_configuration": {
       "type": "2401"
]
```

400 Bad request

401 Unauthorized request.

UnauthorizedRequestInfo:

```
The detail error message about the unauthorized request.
```

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403 Forbidden request.

ForbiddenRequestInfo:

Example:

```
{
   "message": "Access Denied."
}
```

404 Host not found.

500 Internal server error.

InternalServerErrorInfo:

```
{
description: Internal server error.
errorCode integer($int32)
message string
}
```

Example:

```
{
  "errorCode": 0,
  "message": "string"
}
```

GET /v1/hosts/disk-slot-mappings

Retrieves disk slots and usage mappings for a set of hosts.

URL

```
https://<VxRail IP address>/rest/vxm/v1/hosts/disk-slot-mappings
```

Version support

VxRail Software	Supported versions
VxRail Software 4.5.x	Not supported

VxRail Software	Supported versions	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.130 and later	

Request

Authorization (Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameters HostDiskSlotMappingRequest: (Required) Information needed to retrieve disk slot usage for a host.

Parameter	Туре	Description
host_serial_number	string	(Required) Serial number of the host. This property is mandatory if the customer_supplied property is not supplied.
diskgroup_type	string	The disk group configuration for the appliance. This property is supported in VxRail 7.0.240 software and later. • For the VxRail E660/F, P670F, and V670F appliances, disk_group_type uses the default configuration unless this property is specified. • For all other appliance models, disk_group_type is not supported. The first two digits in disk_group_type represent the number of disk slots in the appliance. The second two digits represent the disk group configuration. For example, 1001 represents an E660/F with 10 disk slots using the disk group 1 (DG1) configuration (1 cache disk and up to 7 capacity disks). Supported values include: • VxRail E660/F appliance: 1001 (default), 1002 • VxRail P670F appliance: 2804 (default) • VxRail V670F appliance: 2404 (default), 2403
customer_supplied	object	<pre>(Required) Information about the management server . This property is mandatory if the host_serial_number property is not supplied. The customer_supplied object contains the following properties: management_ip (string): Management IP address current_root_password (string): Root password</pre>

Response

200

Successfully retrieved all slot mappings for hosts.

 $[{\tt HostDiskSlotMappingsResponse}]: An array of {\tt VxRail hosts} \ and \ the \ associated \ disk \ usage \ mappings \ for each host}$

Parameter	Туре	Description
host	string	If host_serial_number is supplied in the request object, this property returns the host serial number; otherwise, the property returns the host ID address
all_slots	[object]	Information about slot positions for all disk drives
		The all_slots object contains the following properties: • bay_info object provides information about the bay slots and contains the following properties: • bay_id object provides information about the bay IDs and contains the following properties: • slots ([integer]): A list of all slot positions where a disk drive is installed
vsan_slots	[object]	A list of all slot positions where a disk drive is claimed for vSAN usage
		The vsan_slots object contains the following properties: • capacity ([object]): The capacity object contains information about slot drives claimed for capacity usage. • cache ([object]): The cache object contains information about slot drives claimed for cache usage.
		Both the capacity object and the cache object contain the following properties:
		 bay_info_with_dg (object): The bay_info_with_dg object contains the following properties: slots ([object]): Provides a list of all slot and disk groups and contains the following properties: slot (integer): Slot number diskgroup (integer): Disk group ID
non_vsan_slots	[object]	A list of all slot positions where a disk drive is claimed for non-vSAN usage
		The non_vsan_slots object contains the following properties: • bay_info object provides information about the bay slots and contains the following properties:

Parameter	Туре	Description
		 bay_id object provides information about the bay IDs and contains the following properties: slots ([integer]): A list of all slot positions where a disk drive is installed

207 Retrieved a partial list of slot mappings for hosts.

 $[{\tt HostDiskSlotMappingsResponse}]: An array of {\tt VxRail hosts} \ and \ the \ associated \ disk \ usage \ mappings for each host}$

Parameter	Туре	Description
host	string	If host_serial_number is supplied in the request object, this property returns the host serial number; otherwise, the property returns the host ID address
all_slots	[object]	Information about slot positions for all disk drives
		The all_slots object contains the following properties: • bay_info object provides information about the bay slots and contains the following properties: • bay_id object provides information about the bay IDs and contains the following properties: • slots ([integer]): A list of all slot positions where a disk drive is installed
vsan_slots	[object]	A list of all slot positions where a disk drive is claimed for vSAN usage The vsan_slots object contains the following properties:

Parameter	Туре	Description
		 capacity ([object]): The capacity object contains information about slot drives claimed for capacity usage. cache ([object]): The cache object contains information about slot drives claimed for cache usage.
		Both the capacity object and the cache object contain the following properties:
		 bay_info_with_dg (object): The bay_info_with_dg object contains the following properties: slots ([object]): Provides a list of all slot and disk
		groups and contains the following properties: slot (integer): Slot number diskgroup (integer): Disk group ID
non_vsan_slots	[object]	A list of all slot positions where a disk drive is claimed for non-vSAN usage
		The non_vsan_slots object contains the following properties:
		 bay_info object provides information about the bay slots and contains the following properties: bay_id object provides information about the bay IDs and contains the following properties: slots ([integer]): A list of all slot positions where a disk drive is installed

400 Bad request.

401 Unauthorized request.

500 Internal server error.

GET /v1/hosts/{sn}

Retrieves information about a specific host and its associate subcomponents.

URL

https://<VxRail IP address>/rest/vxm/v1/hosts/{sn}

Version support

VxRail Software	Supported versions
VxRail Software 4.5.x	Not supported
VxRail Software 4.7.x	Supported in 4.7.3xx and later
VxRail Software 7.0.x	Supported in 7.0.000 and later

Request

Authorization

(Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Path parameters sn: (Required) The serial number of the node you want to query.

Parameter	Туре	Description
sn	string	The serial number of the nodes that you want to query

Example:

```
/v1/hosts/SN1
```

Response

200

Successful operation.

Host:

```
description:
                         host information
boot devices
                          [...]
disks
                          [...]
firmwareInfo
                          FirmwareInfo{...}
health
                          string
                       host health status
hostname
                         string
                       host hostname
id
                          string
                       host id
led status
                          string
                       host led status
manufacturer
                         string
                       host manufacturer
missing
                          boolean
                       host is missing or not
name
                          string
                       host name
operational_status
                          string
                       host operational status
part number
                         string
                          string
power_status
                       host power status
                          string
psnt
                       host psnt
slot
                         integer($int32)
                       host slot
                          string
                       host sn
tpm_present
                          boolean
                       host support tpm or not
```

```
"boot_devices": [
    "avr erase_count": 0,
    "block_size": "string",
```

```
"bootdevice_type": "string",
"capacity": "string",
        "device_model": "string",
        "firmware_version": "string",
         "health": "string",
         "id": "string",
         "max erase count": 0,
        "power_cycle_count": 0,
"power_on_hours": 0,
"sata_type": "string",
        "slot": 0,
         "sn": "string"
     }
   "disks": [
        "capacity": "string",
        "disk_state": "string",
"disk_type": "string",
         "enclosure": 0,
         "firmware_revision": "string",
        "guid": "string",
"id": "string",
"led_status": "string",
         "manufacturer": "string",
         "max_capable_speed": "string",
        "missing": true,
"model": "string",
         "protocol": "string",
        "remaining_write_endurance_rate": "string",
        "slot": 0,
         "sn": "string",
         "write endurance": "string",
        "write_endurance_status": "string"
     }
   "firmwareInfo": {
     "bios_revision": "string",
"bmc_revision": "string",
"boss_version": "string",
"cpld_version": "string",
     "expander_bpf_version": "string",
"hba_version": "string",
     "idsdm version": "string"
     "nonexpander_bpf_version": "string"
  "health": "string",
   "hostname": "string",
  "id": "string",
"led_status": "string",
   "manufacturer": "string",
   "missing": true,
   "name": "string",
   "nics": [
        "firmware_family_version": "string",
        "id": "string",
"link_speed": "string",
"link_status": "string",
        "mac": "string",
        "slot": 0
     }
  ],
"operational_status": "string",
"part_number": "string",
"power_status": "string",
"psnt": "string",
  "slot": 0,
"sn": "string",
"tpm_present": true
}
```

400

Bad request.

401

Unauthorized request.

UnauthorizedRequestInfo:

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403

Forbidden request.

ForbiddenRequestInfo:

Example:

```
{
   "message": "Access Denied."
}
```

404

Host is not found.

500

Internal server error.

InternalServerErrorInfo:

```
{
  "errorCode": 0,
  "message": "string"
}
```

GET /v2/hosts/{sn}

Retrieves information about a specific host and its associated subcomponents (version 2).

URL

https://<VxRail IP address>/rest/vxm/v2/hosts/{sn}

Version support

VxRail Software	Supported versions
VxRail Software 4.5.x	Not supported
VxRail Software 4.7.x	Not supported
VxRail Software 7.0.x	Supported in 7.0.010 and later

Request

Authorization (Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Path parameters sn: (Required) The serial number of the node you want to query.

Parameter	Туре	Description
sn	string	The serial number of the nodes that you want to query

Example:

/v2/hosts/V060903

Response

200 Successful operation.

HostV2 object properties:

Parameter	Туре	Description
id	string	ID number of the host
sn	string	Serial number of the host
slot	integer	Rack slot position where the VxRail host appliance is installed
hostname	string	Hostname of the host
name	string	Name of the host
manufacturer	string	Manufacturer of the host
psnt	string	Product serial number tag (PSNT) of the host
led_status	string	State of the chassis LED indicator for the host

Parameter	Туре	Description
health	string	Health status of the VxRail system
		Supported values are Critical, Error, Warning, and Healthy.
missing	boolean	Whether the chassis health status is critical. Supported values are false (not critical) and true (critical)
tpm_present	boolean	Whether a TPM security device is installed on the VxRail host
operational_status	string	Operational status of the host
power_status	string	Power supply status of the host
boot_devices	[object]	Information about each boot device on the VxRail host The boot_devices object contains the following properties: • id (string): ID of the boot device • sn (string): Serial number of the boot device • device_model (string): Model number of the boot device • sata_type (string): Type of disk drive of the device • power_on_hours (integer): Number of hours the device is powered on • power_cycle_count (integer): Number of times of the device power cycled • max_erase_count (integer): Maximum erase count for the device • avr_erase_count (integer): Average erase count for the device • capacity (string): Capacity of the device disk • health (string): Health status of the boot device (percentage) • firmware_version (string): Version of the firmware for the boot device • bootdevice_type (string): Type of boot device solution
nics	[object]	Information about each NIC on the VxRail host The nics object contains the following properties: id (string): ID of the NIC mac (string): MAC address of the NIC link_status (string): The link status of the NIC link_speed (string): The link speed of the NIC slot (integer): The slot position of the NIC firmware_family_version (string): Version of the firmware for the NIC
disks	[object]	Information about each disk installed in the VxRail host The disks object contains the following properties: id (string): ID of the disk sn (string): Serial number of the disk manufacturer (string): Manufacturer of the disk model (string): Model of the disk disk_type (string): Type of disk drive

Parameter	Туре	Description
		 protocol (string): Type of transport protocol max_capable_speed (string): Maximum capable speed of the disk enclosure (integer): Enclosure where the disk is installed slot (integer): Slot where the disk is installed psnt (string): PSNT of the disk disk_state (string): Health state of the disk led_status (string): State of the chassis LED indicator for the disk missing (boolean): Whether the disk health status is critical. Supported values are false (not critical) and true (critical) capacity (string): Capacity of the disk write_endurance (string): Write endurance of the disk (usage percentage) write_endurance_status (string): Status of the write endurance of the disk remaining_write_endurance_rate (string): Remaining write endurance of the disk (percentage remaining) firmware_revision (string): Version of the firmware for the disk
firmwareInfo	object	Information about the firmware versions installed on the host The firmwareInfo object contains the following properties: • bios_revision (string): Version of the BIOS firmware • bmc_revision (string): Version of the baseboard management controller (BMC) firmware • hba_version (string): Version of the host bus adapter (HBA) firmware • expander_bpf_version (string): Version of the expander backplane firmware • nonexpander_bpf_version (string): Version of the non-expander storage backplane firmware • boss_version (string): Version of the BOSS firmware • cpld_version (string): Version of the complex logical device (CPLD) firmware • idsdm_version (string): Version of the internal dual SD module (IDSDM) firmware
geo_location	object	Information about the geographical location of the host The geo_location object contains the following properties: • rack_name (string): Rack name where the host is located • order_number (integer): Order number of the host

```
"id": "V060903",
"sn": "V060903",
"slot": 1,
"hostname": "vcluster609-esx03.vv13xapp01.local",
"name": "vcluster609-esx03.vv13xapp01.local",
"manufacturer": "Dell Inc.",
"psnt": "V0609030000000",
"led_status": "Blue:On",
"healthy",
"missing": false,
"tpm present": false,
"operational_status": "normal",
"power_status": "on",
"boot devices": [
    "id": "18331E196141",
"sn": "18331E196141",
     "device model": "MTFDDAV240TCB",
    "sata_type": "SSD",
"capacity": "223.57GB",
"health": "100%",
     "firmware version": "DODE008",
     "bootdevice_type": "BOSS"
  },
    "id": "18331E18542B",
     "sn": "18331E18542B",
     "device_model": "MTFDDAV240TCB",
    "sata_type": "SSD",
"capacity": "223.57GB",
"health": "100%",
     "firmware_version": "DODE008",
     "bootdevice type": "BOSS"
  }
],
"nics": [
    "id": "E4:43:4B:3D:05:30",
"mac": "E4:43:4B:3D:05:30",
     "link_status": "Up",
    "link_speed": "10 Gbps", "slot": 1,
     "firmware_family_version": "19.5.12"
  }
"disks": [
  {
    "id": "V060903DVSN00",
    "sn": "V060903DVSN00",
     "guid": "6000c29d6f8c897928a48ff59c7e880b",
     "manufacturer": "SAMSUNG"
     "model": "MZILS1T9HEJH0D3",
     "disk_type": "HDD",
"protocol": "SAS",
    "max_capable_speed": "12 Gb/s",
"enclosure": 0,
     "bay": 1,
"slot": 0,
     "disk_state": "OK",
"led_status": "Green:On",
     "missing": false,
     "capacity": "400.0GB",
     "firmware revision": "DSL7"
  }
"firmwareInfo": {
  "bios_revision": "2.6.3",
"bmc_revision": "4.10.10.10",
```

```
"hba_version": "16.17.00.05",
    "expander_bpf_version": "2.46",
    "boss_version": "2.5.13.3022",
    "cpld_version": "1.0.2",
    "idsdm_version": "1.9"
},
    "geo_location": {
        "rack_name": "V0609",
        "order_number": 3
}
```

400 Bad request.

401 Unauthorized request.

UnauthorizedRequestInfo:

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403 Forbidden request.

ForbiddenRequestInfo:

Example:

```
{
   "message": "Access Denied."
}
```

404 Host is not found.

500 Internal server error.

InternalServerErrorInfo:

```
{
  "errorCode": 0,
  "message": "string"
}
```

GET /v3/hosts/{sn}

Retrieves information about a specific host and its associated subcomponents (version 3).

URL

https://<VxRail IP address>/rest/vxm/v3/hosts/{sn}

Version support

VxRail Software	Supported versions
VxRail Software 4.5.x	Not supported
VxRail Software 4.7.x	Not supported
VxRail Software 7.0.x	Supported in 7.0.130 and later

Request

Authorization (Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Path parameters sn: (Required) The serial number of the node you want to query.

Parameter	Туре	Description
sn	string	The serial number of the nodes that you want to query

Example:

/v3/hosts/V060903

Response

200 Successful operation.

HostV3 object properties:

Parameter	Туре	Description
id	string	ID number of the host
sn	string	Serial number of the host
slot	integer	Rack slot position where the VxRail host appliance is installed
hostname	string	Hostname of the host
name	string	Name of the host
manufacturer	string	Manufacturer of the host
psnt	string	Product serial number tag (PSNT) of the host
led_status	string	State of the chassis LED indicator for the host

Parameter	Туре	Description
health	string	Health status of the VxRail system
		Supported values are Critical, Error, Warning, and Healthy.
missing	boolean	Whether the chassis health status is critical. Supported values are false (not critical) and true (critical)
tpm_present	boolean	Whether a TPM security device is installed on the VxRail host
operational_status	string	Operational status of the host
power_status	string	Power supply status of the host
boot_devices	[object]	Information about each boot device on the VxRail host The boot_devices object contains the following properties: • id (string): ID of the boot device • sn (string): Serial number of the boot device • device_model (string): Model number of the boot device • sata_type (string): Type of disk drive of the device • power_on_hours (integer): Number of hours the device is powered on • power_cycle_count (integer): Number of times of the device power cycled • max_erase_count (integer): Maximum erase count for the device • avr_erase_count (integer): Average erase count for the device • capacity (string): Capacity of the device disk • health (string): Health status of the boot device (percentage) • firmware_version (string): Version of the firmware for the boot device
nics	[object]	 bootdevice_type (string): Type of boot device solution Information about each NIC on the VxRail host The nics object contains the following properties: id (string): ID of the NIC mac (string): MAC address of the NIC link_status (string): The link status of the NIC link_speed (string): The link speed of the NIC slot (integer): The slot position of the NIC firmware_family_version (string): Version of the firmware for the NIC
disks	[object]	Information about each disk installed in the VxRail host The disks object contains the following properties: • id (string): ID of the disk • sn (string): Serial number of the disk • manufacturer (string): Manufacturer of the disk • model (string): Model of the disk • disk_type (string): Type of disk drive

Parameter	Туре	Description
firmwareInfo	Object	 protocol (string): Type of transport protocol max_capable_speed (string): Maximum capable speed of the disk enclosure (integer): Enclosure where the disk is installed slot (integer): Slot where the disk is installed psnt (string): PSNT of the disk disk_state (string): Health state of the disk led_status (string): State of the chassis LED indicator for the disk missing (boolean): Whether the disk health status is critical. Supported values are false (not critical) and true (critical) capacity (string): Capacity of the disk write_endurance (string): Write endurance of the disk (usage percentage) write_endurance_status (string): Status of the write endurance of the disk remaining_write_endurance_rate (string): Remaining write endurance of the disk (percentage remaining) firmware_revision (string): Version of the firmware for the disk disk_claim_type (string): Usage type claimed for the disk. Disks can be claimed as vSAN or non-vSA Information about the firmware versions installed on the host The firmwareInfo object contains the following properties: bios_revision (string): Version of the BIOS firmware bmc_revision (string): Version of the baseboard management controller (BMC) firmware hba_version (string): Version of the host bus adapter (HBA) firmware expander_bpf_version (string): Version of the
		 expander backplane firmware nonexpander_bpf_version (string): Version of the non-expander storage backplane firmware boss_version (string): Version of the BOSS firmware cpld_version (string): Version of the complex
		 logical device (CPLD) firmware idsdm_version (string): Version of the internal dual SD module (IDSDM) firmware dcpm_version (string): Version of the DC Persistent Memory (DCPM) firmware
geo_location	object	Information about the geographical location of the host The geo_location object contains the following properties: • rack_name (string): Rack name where the host is located

Parameter	Туре	Description
		• order_number (integer): Order number of the host

```
"id": "V060903",
"sn": "V060903",
"slot": 1,
"hostname": "vcluster609-esx03.vv13xapp01.local",
"name": "vcluster609-esx03.vv13xapp01.local",
"manufacturer": "Dell Inc.",
"psnt": "V0609030000000",
"led status": "Blue:On",
"healthy",
"missing": false,
"tpm_present": false,
"operational_status": "normal",
"power_status": "on",
"boot_devices": [
  {
    "id": "18331E196141",
"sn": "18331E196141",
     "device model": "MTFDDAV240TCB",
    "sata_type": "SSD",
"capacity": "223.57GB",
"health": "100%",
     "firmware_version": "D0DE008",
     "bootdevice_type": "BOSS"
  },
  {
    "id": "18331E18542B",
"sn": "18331E18542B",
     "device model": "MTFDDAV240TCB",
     "sata_type": "SSD",
"capacity": "223.57GB",
     "health": "100%",
     "firmware_version": "D0DE008",
     "bootdevice_type": "BOSS"
  }
"nics": [
     "id": "E4:43:4B:3D:05:30",
     "mac": "E4:43:4B:3D:05:30",
     "link_status": "Up",
"link_speed": "10 Gbps",
"slot": 1,
     "firmware_family_version": "19.5.12"
  }
"disks": [
     "id": "V060903DVSN00",
     "sn": "V060903DVSN00"
     "guid": "6000c29d6f8c897928a48ff59c7e880b",
     "manufacturer": "SAMSUNG"
     "model": "MZILS1T9HEJH0D3",
     "disk_type": "HDD",
"protocol": "SAS",
     "max_capable_speed": "12 Gb/s",
"enclosure": 0,
     "bay": 1,
     "slot": 0,
     "disk state": "OK",
     "led status": "Green:On",
     "missing": false,
"capacity": "400.0GB",
```

```
"firmware_revision": "DSL7",
    "disk_claim_type": "vSAN"
}

// "firmwareInfo": {
    "bios_revision": "2.6.3",
    "bmc_revision": "4.10.10.10",
    "hba_version": "16.17.00.05",
    "expander_bpf_version": "2.46",
    "boss_version": "2.5.13.3022",
    "cpld_version": "1.0.2",
    "idsdm_version": "1.9"
},

// "geo_location": {
    "rack_name": "V0609",
    "order_number": 3
}
```

400 Bad request.

401 Unauthorized request.

UnauthorizedRequestInfo:

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403 Forbidden request.

ForbiddenRequestInfo:

Example:

```
"message": "Access Denied."
}
```

404 Host is not found.

500 Internal server error.

InternalServerErrorInfo:

```
{
description: Internal server error.
errorCode integer($int32)
message string
}
```

```
{
  "errorCode": 0,
  "message": "string"
}
```

GET /v4/hosts/{sn}

Retrieves information about a specific host and its associated subcomponents (version 4).

URL

https://<VxRail IP address>/rest/vxm/v4/hosts/{sn}

Version support

VxRail Software	Supported versions		
VxRail Software 4.5.x	Not supported		
VxRail Software 4.7.x	Not supported		
VxRail Software 7.0.x	Supported in 7.0.210 and later		

Request

Authorization (Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

 $\begin{tabular}{ll} \textbf{Path parameters} & \verb"sn": (Required) The serial number of the node you want to query. \\ \end{tabular}$

Parameter	Туре	Description
sn	string	The serial number of the nodes that you want to query

Example:

/v4/hosts/V060903

Response

200 Successful operation.

HostV4 object properties:

Parameter	Туре	Description
id	string	ID number of the host
sn	string	Serial number of the host

Parameter	Туре	Description
slot	integer	Rack slot position where the VxRail host appliance is installed
hostname	string	Hostname of the host
name	string	Name of the host
manufacturer	string	Manufacturer of the host
psnt	string	Product serial number tag (PSNT) of the host
led_status	string	State of the chassis LED indicator for the host
health	string	Health status of the VxRail system
		Supported values are Critical, Error, Warning, and Healthy.
missing	boolean	Whether the chassis health status is critical. Supported values are false (not critical) and true (critical)
tpm_present	boolean	Whether a TPM security device is installed on the VxRail host
operational_status	string	Operational status of the host
power_status	string	Power supply status of the host
boot_devices	[object]	Information about each boot device on the VxRail host The boot_devices object contains the following properties: id (string): ID of the boot device sn (string): Serial number of the boot device device_model (string): Model number of the boot device sata_type (string): Type of disk drive of the device power_on_hours (integer): Number of hours the device is powered on power_cycle_count (integer): Number of times of the device power cycled max_erase_count (integer): Maximum erase count for the device avr_erase_count (integer): Average erase count for the device capacity (string): Capacity of the device disk health (string): Health status of the boot device (percentage) firmware_version (string): Version of the firmware for the boot device bootdevice_type (string): Type of boot device solution block_size (string): Block size of boot device status (string): Status of the boot device status (string): Status of the boot device manufacturer (string): Part number of the boot device controller_firmware (string): Controller firmware version of boot device

Parameter	Туре	Description
		 controller_model (string): Controller model of boot device controller_status (string): Controller status of boot device
nics	[object]	<pre>Information about each NIC on the VxRail host The nics object contains the following properties: id (string): ID of the NIC mac (string): MAC address of the NIC link_status (string): The link status of the NIC link_speed (string): The link speed of the NIC slot (integer): The slot position of the NIC firmware_family_version (string): Version of the firmware for the NIC</pre>
disks	[object]	Information about each disk installed in the VxRail host The disks object contains the following properties: id (string): ID of the disk sn (string): Serial number of the disk manufacturer (string): Manufacturer of the disk model (string): Model of the disk disk_type (string): Type of disk drive protocol (string): Type of transport protocol max_capable_speed (string): Maximum capable speed of the disk enclosure (integer): Enclosure where the disk is installed slot (integer): Slot where the disk is installed psnt (string): PSNT of the disk disk_state (string): Health state of the disk led_status (string): State of the chassis LED indicator for the disk missing (boolean): Whether the disk health status is critical. Supported values are false (not critical) and true (critical) capacity (string): Capacity of the disk write_endurance (string): Write endurance of the disk (usage percentage) write_endurance_status (string): Status of the write endurance remaining_write_endurance_rateof the disk (string): Remaining write endurance of the disk (percentage remaining) firmware_revision (string): Version of the firmware for the disk disk_claim_type (string): Usage type claimed for the disk. Disks can be claimed as vSAN or non-vSAN
firmwareInfo	object	Information about the firmware versions installed on the host The firmwareInfo object contains the following properties:

Parameter	Туре	Description
		 bios_revision (string): Version of the BIOS firmware bmc_revision (string): Version of the baseboard management controller (BMC) firmware hba_version (string): Version of the host bus adapter (HBA) firmware expander_bpf_version (string): Version of the expander backplane firmware nonexpander_bpf_version (string): Version of the non-expander storage backplane firmware boss_version (string): Version of the BOSS firmware cpld_version (string): Version of the complex logical device (CPLD) firmware idsdm_version (string): Version of the internal dual SD module (IDSDM) firmware dcpm_version (string): Version of the DC Persistent Memory (DCPM) firmware
geo_location	object	Information about the geographical location of the host The geo_location object contains the following properties: • rack_name (string): Rack name where the host is located • order_number (integer): Order number of the host
drive_configuration	object	Information about the drive configuration on the host The drive_configuration object contains the following properties: • type (string): Type of disk group configuration

```
"firmware_version": "2.5.13.4008",
     "bootdevice_type": "string",
"block_size": "512",
     "slot": 1,
"status": "NORMAL",
     "part_number": "TW07FXC3PIHiT0440",
"manufacturer": "INTEL",
"controller_firmware": "2.5.13.4008",
     "controller_model": "BOSS-S2",
"controller_status": "NORMAL"
     "id": "18331E18542B",
"sn": "18331E18542B",
     "device model": "MTFDDAV240TCB",
     "sata_type": "SSD",
     "power_on_hours": 1,
     "power_cycle_count": 1,
     "max_erase_count": 1,
     "avr_erase_count": 1,
"capacity": "480103981056",
"health": "string",
     "firmware_version": "2.5.13.4008",
     "bootdevice_type": "string",
"block_size": "512",
"slot": 1,
     "status": "NORMAL",
     "part_number": "TW07FXC3PIHiT0440",
"manufacturer": "INTEL",
     "controller_model": "BOSS-S2",
     "controller status": "NORMAL"
  }
"nics": [
    "id": "E4:43:4B:3D:05:30",
"mac": "E4:43:4B:3D:05:30",
     "link_status": "Up",
     "link_speed": "10 Gbps",
     "slot": 1,
     "firmware family version": "19.5.12"
  },
    "id": "E4:43:4B:3D:05:31",
"mac": "E4:43:4B:3D:05:31",
     "link_status": "Up",
     "link_speed": "10 Gbps",
"slot": 2,
     "firmware_family_version": "19.5.12"
"disks": [
     "id": "V060902DVSN00", "sn": "V060902DVSN00",
     "quid": "6000c298a4477c10d5d89f963ac4f8aa",
     "manufacturer": "SAMSUNG"
     "model": "MZILS1T9HEJH0D3",
     "disk_type": "HDD",
"protocol": "SAS",
     "max_capable_speed": "12 Gb/s",
"enclosure": 0,
     "bay": 1,
     "slot": 0,
     "disk_state": "OK",
"led_status": "Green:On",
     "missing": false,
     "capacity": "400.0GB"
     "firmware_revision": "DSL7"
```

```
"id": "V060902DVSN01",
             "sn": "V060902DVSN01",
             "guid": "6000c2972a17c1e736830d5e6f32b80e",
             "manufacturer": "TOSHIBA",
             "model": "PX05SMB040Y",
             "disk_type": "SSD",
"protocol": "SAS",
            "max_capable_speed": "12 Gb/s",
"enclosure": 0,
             "bay": 1,
"slot": 8,
            "disk_state": "OK",
"led_status": "Green:On",
             "missing": false,
"capacity": "40.0GB"
             "write endurance": "3",
            "remaining_write_endurance_rate": "97%",
"firmware_revision": "ASOE",
             "disk_claim_type": "vSAN"
      "bios_revision": "2.6.3",
"bmc_revision": "4.10.10.10",
"hba_version": "16.17.00.05",
         "expander_bpf_version": "2.46",
"boss_version": "2.5.13.3022",
"cpld_version": "1.0.2",
"idsdm_version": "1.9"
      "geo_location": {
    "rack_name": "V0609",
         "order number": 2
      "drive_configuration": {
  "type": "2401"
   }
]
```

400 Bad request.

401 Unauthorized request.

 ${\tt Unauthorized Request Info:}$

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403 Forbidden request.

ForbiddenRequestInfo:

```
The detail error message about the forbidden request.
```

```
{
   "message": "Access Denied."
}
```

404 Host is not found.

500 Internal server error.

InternalServerErrorInfo:

```
{
description: Internal server error.
errorCode integer($int32)
message string
}
```

Example:

```
{
  "errorCode": 0,
  "message": "string"
}
```

GET /v5/hosts/{sn}

Retrieves information about a specific host and its associated subcomponents (version 5). Version 5 of this API provides the same host information as version 4, plus adds support for satellite nodes.

URL

```
https://<VxRail IP address>/rest/vxm/v5/hosts/{sn}
```

Version support

VxRail Software	Supported versions		
VxRail Software 4.5.x	Not supported		
VxRail Software 4.7.x	Not supported		
VxRail Software 7.0.x	Supported in 7.0.300 and later		

Request

Authorization (Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Path parameters sn: (Required) The serial number of the node you want to query.

Parameter	Туре	Description
sn	string	The serial number of the nodes that you want to query

/v4/hosts/V060903

Response

200 Successful operation.

HostV5 object properties:

Parameter	Туре	Description
id	string	ID number of the host
sn	string	Serial number of the host
guid	string	GUID of the disk
type	string	Node type. Supported values include CLUSTER and SATELLITE
slot	integer	Rack slot position where the VxRail host appliance is installed
hostname	string	Hostname of the host
name	string	Name of the host
manufacturer	string	Manufacturer of the host
psnt	string	Product serial number tag (PSNT) of the host
led_status	string	State of the chassis LED indicator for the host
health	string	Health status of the VxRail system
		Supported values are Critical, Error, Warning, and Healthy.
missing	boolean	Whether the chassis health status is critical. Supported values are false (not critical) and true (critical)
tpm_present	boolean	Whether a TPM security device is installed on the VxRail host
operational_status	string	Operational status of the host
power_status	string	Power supply status of the host
boot_devices	[object]	Information about each boot device on the VxRail host
		The boot_devices object contains the following properties: • id (string): ID of the boot device • sn (string): Serial number of the boot device • device_model (string): Model number of the boot device • sata_type (string): Type of disk drive of the device

Parameter	Туре	Description
Parameter	Гуре	 power_on_hours (integer): Number of hours the device is powered on power_cycle_count (integer): Number of times of the device power cycled max_erase_count (integer): Maximum erase count for the device avr_erase_count (integer): Average erase count for the device capacity (string): Capacity of the device disk health (string): Health status of the boot device (percentage) firmware_version (string): Version of the firmware for the boot device bootdevice_type (string): Type of boot device solution block_size (string): Block size of boot device slot (integer): The slot position of the boot device status (string): Status of the boot device part_number (string): Part number of the boot device manufacturer (string): Manufacturer of boot device controller_firmware (string): Controller firmware version of boot device controller_model (string): Controller model of boot device controller_status (string): Controller status of boot device
nics	[object]	Information about each NIC on the VxRail host The nics object contains the following properties: id (string): ID of the NIC mac (string): MAC address of the NIC link_status (string): The link status of the NIC link_speed (string): The link speed of the NIC slot (integer): The slot position of the NIC firmware_family_version (string): Version of the firmware for the NIC
disks	[object]	Information about each disk installed in the VxRail host The disks object contains the following properties: id (string): ID of the disk sn (string): Serial number of the disk manufacturer (string): Manufacturer of the disk model (string): Model of the disk disk_type (string): Type of disk drive protocol (string): Type of transport protocol max_capable_speed (string): Maximum capable speed of the disk enclosure (integer): Enclosure where the disk is installed slot (integer): Slot where the disk is installed psnt (string): PSNT of the disk

Parameter	Туре	Description
		 disk_state (string): Health state of the disk led_status (string): State of the chassis LED indicator for the disk missing (boolean): Whether the disk health status is critical. Supported values are false (not critical) and true (critical) capacity (string): Capacity of the disk write_endurance (string): Write endurance of the disk (usage percentage) write_endurance_status (string): Status of the write endurance rateof the disk (string): Remaining write endurance of the disk (percentage remaining) firmware_revision (string): Version of the firmware for the disk disk_claim_type (string): Usage type claimed for the disk. Disks can be claimed as vSAN or non-vSAN
firmwareInfo	object	Information about the firmware versions installed on the host The firmwareInfo object contains the following properties: • bios_revision (string): Version of the BIOS firmware • bmc_revision (string): Version of the baseboard management controller (BMC) firmware • hba_version (string): Version of the host bus adapter (HBA) firmware • expander_bpf_version (string): Version of the expander backplane firmware • nonexpander_bpf_version (string): Version of the non-expander storage backplane firmware • boss_version (string): Version of the BOSS firmware • cpld_version (string): Version of the complex logical device (CPLD) firmware • idsdm_version (string): Version of the internal dual SD module (IDSDM) firmware • dcpm_version (string): Version of the DC Persistent Memory (DCPM) firmware • perc_version (string): Version of the PERC firmware
geo_location	object	Information about the geographical location of the host The geo_location object contains the following properties: rack_name (string): Rack name where the host is located order_number (integer): Order number of the host
drive_configuration	object	Information about the drive configuration on the host The drive_configuration object contains the following properties:

Parameter	Туре	Description
		• type (string): Type of disk group configuration

```
[
      "id": "V060902",
      "sn": "V060902",
      "type": "CLUSTER",
      "slot": 1,
      "hostname": "vcluster609-esx02.vv13xapp01.local",
"name": "vcluster609-esx02.vv13xapp01.local",
      "manufacturer": "Dell Inc.",
       "psnt": "V0609020000000",
      "led status": "Blue:On",
      "health": "Healthy", "missing": false,
      "tpm_present": false,
      "operational status": "normal",
      "power_status": "on",
"boot_devices": [
             "id": "18331E196141",
"sn": "18331E196141",
              "device model": "MTFDDAV240TCB",
              "sata_type": "SSD",
              "power_on_hours": 1,
"power_cycle_count": 1,
              "max_erase_count": 1,
             "avr_erase_count": 1,
"capacity": "480103981056",
"health": "string",
"firmware_version": "2.5.13.4008",
             "bootdevice_type": "string",
"block_size": "512",
"slot": 1,
"status": "NORMAL",
              "part number": "TW07FXC3PIHiT0440",
              "manufacturer": "INTEL"
              "controller_firmware": "2.5.13.4008",
"controller_model": "BOSS-S2",
              "controller status": "NORMAL"
             "id": "18331E18542B",
"sn": "18331E18542B",
              "device model": "MTFDDAV240TCB",
              "sata_type": "SSD",
              "power_on_hours": 1
              "power_cycle_count": 1,
              "max_erase_count": 1,
             "max_erase_count": 1,

"avr_erase_count": 1,

"capacity": "480103981056",

"health": "string",

"firmware_version": "2.5.13.4008",

"bootdevice_type": "string",

"block_size": "512",
              "slot": 1,
"status": "NORMAL",
             "part_number": "TW07FXC3PIHiT0440",
"manufacturer": "INTEL",
"controller_firmware": "2.5.13.4008",
"controller_model": "BOSS-S2",
"controller_status": "NORMAL"
      ],
"nics": [
```

```
"id": "E4:43:4B:3D:05:30"
     "mac": "E4:43:4B:3D:05:30",
     "link_status": "Up",
     "link_speed": "10 Gbps",
"slot": 1,
     "firmware_family_version": "19.5.12"
     "id": "E4:43:4B:3D:05:31",
     "mac": "E4:43:4B:3D:05:31",
     "link_status": "Up",
     "link_speed": "10 Gbps",
"slot": 2,
     "firmware family version": "19.5.12"
"disks": [
     "id": "V060902DVSN00",
     "sn": "V060902DVSN00",
     "guid": "6000c298a4477c10d5d89f963ac4f8aa",
     "manufacturer": "SAMSUNG"
     "model": "MZILS1T9HEJH0D3",
     "disk_type": "HDD",
"protocol": "SAS",
     "max capable_speed": "12 Gb/s",
     "enclosure": 0,
     "bay": 1,
     "slot": 0,
     "disk_state": "OK",
"led_status": "Green:On",
     "missing": false,
"capacity": "400.0GB",
     "firmware_revision": "DSL7"
   },
     "id": "V060902DVSN01", "sn": "V060902DVSN01",
     "guid": "6000c2972a17c1e736830d5e6f32b80e", "manufacturer": "TOSHIBA",
     "model": "PX05SMB040Y",
     "disk_type": "SSD",
     "protocol": "SAS",
     "max_capable_speed": "12 Gb/s",
"enclosure": 0,
     "bay": 1,
     "slot": 8,
     "disk_state": "OK",
"led_status": "Green:On",
     "missing": false,
     "capacity": "40.0GB"
     "write_endurance": "3",
     "remaining_write_endurance_rate": "97%",
     "firmware_revision": "AS0E",
"disk_claim_type": "vSAN"
"bios_revision": "2.6.3",
"bmc_revision": "4.10.10.10",
"hba_version": "16.17.00.05",
   "expander_bpf_version": "2.46",
  "boss_version": "2.46"
"cpld_version": "1.0.2",
"idsdm_version": "1.9"
"geo_location": {
    "rack_name": "V0609",
   "order_number": 2
```

```
"drive_configuration": {
    "type": "2401"
    }
}
```

400 Bad request.

401 Unauthorized request.

UnauthorizedRequestInfo:

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403 Forbidden request.

ForbiddenRequestInfo:

Example:

```
{
   "message": "Access Denied."
}
```

404 Host is not found.

500 Internal server error.

InternalServerErrorInfo:

```
{
  "errorCode": 0,
  "message": "string"
}
```

PATCH /v1/hosts/{sn}

Updates the geographical information about a specific host.

URL

```
https://<VxRail IP address>/rest/vxm/v1/hosts/{sn}
```

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Not supported	
VxRail Software 7.0.x	Supported in 7.0.010 and later	

Request

Authorization (Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

sn: (Required) The serial number of the node you want to update. Path parameters

Parameter	Туре	Description
sn	string	The serial number of the nodes that you want to update

Example:

```
/v1/hosts/V060903
```

Body parameters HostUpdateSpec: (Required) Geographical information that you want to update.

Parameter	Туре	Description
geo_location	object	Information about the geographical location of the host
		The geo_location object contains the following properties:
		• rack_name (string): Rack name where the host is located
		order_number (integer): Order number of the host

```
"geo_location": {
    "rack_name": "rack1",
    "order_number": 1
```

202 The request has been accepted for processing, but the processing has not been completed. A

request_id will be returned and can be used to check the status of the processing.

400 Bad request.

401 Unauthorized request.

403 Forbidden request.

404 Host is not found.

500 Internal server error.

POST /v1/hosts/{sn}/shutdown

Shuts down a selected host. Includes performing a dry run.

URL

https://<VxRail IP address>/rest/vxm/v1/hosts/{sn}/shutdown

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Supported in 4.7.3xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64.

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameter HostShutdownSpec: (Required) Required information for the host to be shut down.

Parameter	Туре	Description
dryrun	boolean	Performs a dry run to check whether it is safe to shutdown
evacuate_powered off_vms	boolean	Move powered off virtual machines for this node When evacuate_poweredoff_vms is set to true, vCenter migrates all VMs (including powered off and suspended VMs) to other hosts.
		When evacuate_poweredoff_vms is set to false, vCenter only migrates running VMs to other hosts.

Path parameter sn: (Required) The serial number of the node you want to shut down.

Parameter	Туре	Description
sn	string	The serial number of the nodes that you want to shutdown

202 Successful operation.

AcceptedRequestInfo:

```
{
description:
Accepted request.
request_id string
example: 5ffe7062-a590-45b8-a172-8d2cf119562e
The detail message about the accepted request.
}
```

Example:

```
{
    "request_id": "5ffe7062-a590-45b8-a172-8d2cf119562e"
}
```

400 Bad request.

401 Unauthorized request.

UnauthorizedRequestInfo:

Example:

```
{
   "message": "The provided vCenter credentials are not valid."
}
```

403 Forbidden request.

ForbiddenRequestInfo:

Example:

```
{
  "message": "Access Denied."
}
```

404 Host is not found.

500

Internal server error.

InternalServerErrorInfo:

```
{
description: Internal server error.
errorCode integer($int32)
message string
}
```

```
{
  "errorCode": 0,
  "message": "string"
}
```

iDRAC

The VxRail API supports querying and configuring VxRail hosts' iDRAC parameters.

GET /v1/hosts/{sn}/idrac/available-user-ids

Retrieves a list of the available iDRAC user slot IDs.

URL

https://<VxRail IP address>/rest/vxm/v1/hosts/{sn}/idrac/available-user-ids

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Supported in 4.7.1xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Path parameters sn: (Required) The serial number of the host to be queried.

Parameter	Туре	Description
sn	string	The serial number of the nodes that you want to query

Example:

/v1/hosts/SN1/idrac/available-user-ids

Response

200 Operation successful.

Example:

[4, 5,

```
6,
7,
8,
10,
11,
12,
13,
14
```

401 Unauthorized request.

403 Forbidden request.

404 Host not found.

500 Unexpected internal error.

unknownError:

Internal error: Error message from PS: /usr/lib/vmware-marvin/marvind/
webapps/ROOT/WEB-INF/classes/scripts/esxcli-client.py (No such file or
directory)

GET /v1/hosts/{sn}/idrac/users

Retrieves a list of created iDRAC user accounts on the specified host.

URL

https://<VxRail IP address>/rest/vxm/v1/hosts/{sn}/idrac/users

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Supported in 4.7.1xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Path parameters sn: (Required) The serial number of the host to be queried.

Parameter	Туре	Description
sn	string	The serial number of the nodes that you want to query

200 Operation successful.

Example:

```
[
    "id": 2,
    "name": "root",
    "privilege": "ADMIN"
},
    "id": 3,
    "name": "testuser",
    "privilege": "ADMIN"
},
    "id": 9,
    "name": "testuser3",
    "privilege": "ADMIN"
},
    "id": 15,
    "name": "vxpsvc",
    "privilege": "ADMIN"
},
    "id": 16,
    "name": "PTADMIN",
    "privilege": "ADMIN"
}
```

401 Unauthorized request.

403 Forbidden request.

404 Host not found.

500 Unexpected internal error.

unknownError:

Internal error: Error message from PS: /usr/lib/vmware-marvin/marvind/
webapps/ROOT/WEB-INF/classes/scripts/esxcli-client.py (No such file or directory)

POST /v1/hosts/{sn}/idrac/users

Creates an iDRAC user account.

URL

https://<VxRail IP address>/rest/vxm/v1/hosts/{sn}/idrac/users

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Supported in 4.7.1xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameter IdracUserCreateSpec: (Required) The iDRAC user account information for the user to be created.

Parameter	Туре	Description
id	integer	The iDRAC user slot ID
name	string	(Required) The iDRAC user name
password	string	(Required) The iDRAC user password
privilege	string	(Required) The permissions (privilege) of the iDRAC user. Supported values include ADMIN, OPER, or READONLY.

Path parameter

sn: (Required) The serial number of the host to be queried.

Parameter	Туре	Description
sn	string	The serial number of the nodes that you want to shutdown

Response

202 Operation successful.

The request has been accepted for processing, but the processing has not been completed. A requestId will be returned and can be used to check the status of the processing.

Example:

```
{
   "request_id": "SBI_1333"
}
```

400 Invalid request parameters.

401 Unauthorized request.

403 Forbidden request.

404 Host not found.

PUT /v1/hosts/{sn}/idrac/users/{userId}

Updates an iDRAC user account.

URL

https://<VxRail IP address>/rest/vxm/v1/hosts/{sn}/idrac/users/{userId}

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Supported in 4.7.1xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameters IdracUserUpdateSpec: (Required) The iDRAC user account information for the user to be updated.

Parameter	Туре	Description
name	string	(Required) The iDRAC user name
password	string	(Required) The iDRAC user password
privilege	string	(Required) The permissions (privilege) of the iDRAC user. Supported values include ADMIN, OPER, or READONLY.

Path parameters sn: (Required) The serial number of the host to be queried.

Parameter	Туре	Description
sn	string	The serial number of the nodes that you want to shutdown

userId: (Required) The serial number of the host to be queried.

Parameter	Туре	Description
userId	string	(Required) The unique identifier of the iDRAC user. The user ID range is 3 through 16.

202 Operation successful.

The request has been accepted for processing, but the processing has not been completed. A requestId will be returned and can be used to check the status of the processing.

Example:

```
{
    "request_id": "SBI_1333"
}
```

400 Invalid request parameters.

401 Unauthorized request.

403 Forbidden request.

404 Host not found.

GET /v1/hosts/{sn}/idrac/network

Retrieves the iDRAC network settings on the specified host.

URL

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Supported in 4.7.1xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Path parameters sn: (Required) The serial number of the host to be queried.

Parameter	Туре	Description
sn	string	The serial number of the nodes that you want to query

200 Operation successful.

Example:

```
"ip": {
    "type": "ipv4",
    "ip_address": "192.168.102.33",
    "netmask": "255.255.255.0",
    "gateway": "192.168.102.1"
},
    "dhcp_enabled": false,
    "vlan": {
        "vlan_id": 0,
        "vlan_priority": 0
}
```

401 Unauthorized request.

403 Forbidden request.

404 Host not found.

500 Unexpected internal server error.

unknownError:

Internal error: Error message from PS: /usr/lib/vmware-marvin/marvind/webapps/ROOT/WEB-INF/classes/scripts/esxcli-client.py (No such file or directory)

PATCH /v1/hosts/{sn}/idrac/network

Updates the iDRAC network settings on the specified host.

URL

https://<VxRail IP address>/rest/vxm/v1/hosts/{sn}/idrac/network

Version support

VxRail Software	Supported versions	
VxRail Software 4.5.x	Not supported	
VxRail Software 4.7.x	Supported in 4.7.1xx and later	
VxRail Software 7.0.x	Supported in 7.0.000 and later	

Request

Authorization (Required) Username and password encoded with Base64

Example value: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

Body parameters IdracNetworkSpec: (Required) The network parameters for the iDRAC network.

Parameter	Туре	Description
dhcp_enabled	boolean	(Required) Whether the DHCP service is enabled or not
ip	IdracIP object	(Required) IP information for iDRAC
		The IdracIP object contains the following properties:
		• ip_address (string): The IP address of the iDRAC (Required)
		• gateway (string): The gateway of the iDRAC (Required)
		• netmask (string): The netmask of the iDRAC (Required)
		 type (string): The VLAN ID setting of the iDRAC (Required): IPv4 or IPv6. Only IPv4 is supported in the current version.
vlan	IdracNetworkVl an object	(Required) The VLAN information for the iDRAC network
		The IdracNetworkVlan object contains the following properties:
		 vlan_id (string): The IPv4 address / VLAN ID setting of the iDRAC. 0 means disabled (Required)
		 vlan_priority (string): The VLAN priority of the iDRAC (Required). The default value is 0.

Path parameters sn: (Required) The serial number of the host to be queried.

Parameter	Туре	Description
sn	string	The serial number of the host to be queried

Response

The request has been accepted for processing, but the processing has not been completed. A requestld will be returned and can be used to check the status of the processing.

Example:

```
{
   "request_id": "SBI_1333"
}
```

400 Invalid request parameters.

401 Unauthorized request.

403 Forbidden request.

404 Host not found.