

# VNF Life Cycle Management Troubleshooting Guideline

Virtual Border Gateway Function

Troubleshooting

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# 1 Introduction

This document describes the procedures to follow in case the VNF cannot be instantiated or terminated properly using VNF-LCM.

The workflows can be managed and monitored using the following interfaces:

- Full Stack Scenario
  - The VNF-LCM GUI when using the ENM (EM-triggered mode)
  - The EO GUI when using the EO (NFVO-triggered mode)
- Small Stack Scenario
  - The VNF-LCM GUI when using the ENM

The following applies for life cycle operations for EO through the Or-Vnfm interface:

- EO is the only supported NFVO.
- The only supported workflows are instantiation and termination.
- The supported VIM is OpenStack.

## 1.1 Conditions

The following conditions apply:

- VNF-LCM is available using either Operations Support System, Radio and Core (OSS-RC) or Ericsson Network Manager (ENM).
- The following minimum version requirements are met:
  - Virtual Infrastructure Managers (VIMs):
    - CEE: R6 or newer
    - OpenStack: Mitaka or newer
  - vIMS workflows: 1.15.0
  - VNF-LCM: 18.18 or higher (minimum SW media version: 4.10.14)
  - EO: 18.0
- This document is applicable to Ericsson Orchestrator (EO) version 18.1.



## 2 Troubleshooting Procedure

### 2.1 Solve Instantiation Trouble Cases

Follow these instructions if the VNF fails to instantiate in any phase of the instantiation workflow (including before executing the workflow).

1. Identify, in which phase has the instantiation workflow failed.

Workflow Phase	Procedure to Follow
Before executing the workflow	No manual cleanup actions are required.
Workflow initialization	No manual cleanup actions are required.
Instantiation granting during orchestration	<a href="#">Clean Up VAPP in ENM</a> on page 6 <sup>(1)</sup>
Resource allocation in VNF-LCM	Terminate the VNF forcefully. If forceful termination fails, continue with the manual <a href="#">Cleanup Instructions</a> on page 5.
After instantiation, during VAPP acceptance in ENM	
After instantiation, when sending instantiation completed message	
	Remove every VAPP part from the system. If there are no VAPP parts left in a component, check and continue with the remaining.

(1) Ericsson Orchestrator uses the term "VAPP" to denote a logical group composed of one or more VMs. VMware based deployments use the term "vApp" to denote a preconfigured cluster of VMs packaging applications with their required operating systems.

For more information, see [Glossary of Terms and Acronyms](#).

### 2.2 Solve Termination Trouble Cases

Follow these instructions if the VNF fails to terminate in any phase of the termination workflow (including before executing the workflow).

1. Identify, in which phase has the instantiation workflow failed.

Workflow Phase	Procedure to Follow
Before executing the workflow	No manual cleanup actions are required.



Workflow Phase	Procedure to Follow
Workflow initialization	No manual cleanup actions are required.
Termination granting during orchestration	<a href="#">Clean Up VAPP in ENM</a> on page 6 <sup>(1)</sup>
VNF instance locking	<p>In case the VNF-LCM GUI keeps repeating the message SSH Connection Failed (AuthenticationException), the workflow cannot log into the VNF. To solve the issue, continue with <a href="#">Solve jboss_user Authentication Issue</a> on page 8.</p> <p>In all other cases, terminate the VNF forcefully. If forceful termination fails, continue with the manual <a href="#">Cleanup Instructions</a> on page 5.</p>
Stack deletion	<p>Terminate the VNF forcefully. If forceful termination fails, continue with the manual <a href="#">Cleanup Instructions</a> on page 5.</p> <p>Remove every VAPP part from the system. If there are no VAPP parts left in a component, check and continue with the remaining.</p>
After termination when removing VNF entry from ENM	

(1) Ericsson Orchestrator uses the term "VAPP" to denote a logical group composed of one or more VMs. VMware based deployments use the term "vApp" to denote a preconfigured cluster of VMs packaging applications with their required operating systems.

For more information, see [Glossary of Terms and Acronyms](#).

## 2.3 Solve SSH Connection related Trouble Cases

1. Identify, in which phase has the instantiation workflow failed.

Workflow Phase	Procedure to Follow
VNF instance locking	<p>In case the VNF-LCM GUI keeps repeating the message SSH Connection Failed (AuthenticationException), the workflow cannot log into the VNF. To solve the issue, continue with <a href="#">Solve jboss_user Authentication Issue</a> on page 8.</p>



Workflow Phase	Procedure to Follow
	In all other cases, terminate the VNF forcefully. If forceful termination fails, continue with the manual <a href="#">Cleanup Instructions</a> on page 5.





## 3 Cleanup Instructions

This section contains procedures for VAPP cleanup if it is in an inconsistent state between EO, ENM, VNF-LCM, and the VIM after running the forceful termination workflow.

### 3.1 Clean Up VAPP in EO

#### Prerequisites

- You are logged in to EO.

#### Steps

1. Get the VNF instance ID of the VAPP.
  - If using the EO GUI, select **External Management System ID**.
  - If using REST API of EO, use the following request:

```
GET /vapps/<vapp_ID>
```

For more information on the output, see [Example 1](#).

2. Get the list of resource names that are using the VNF instance ID.
  - vnfcResourceInfo
  - vnfVirtualLinkResourceInfo
  - virtualStorageResourceInfo

#### Example

```
GET /vnflcm/vs/vnf_instances/<vnf_instance_ID>
```

For more information on the output, see [Example 2](#).

3. Get the list of resource IDs that are using the resource names collected in [Step 2](#).
  - a. Dump the resources from EO.
  - b. Search for the resource names collected in [Step 2](#) in the following resources:
    - compute

Use the following request: `GET <ecm_service_path>/vms`



For more information on the output, see [Example 3](#).

- networking

Use the following request: `GET <ecm_service_path>/v2/vns`

For more information on the output, see [Example 4](#).

- storage

Use the following request: `GET <ecm_service_path>/bsvs`

For more information on the output, see [Example 5](#).

4. Remove the resources identified by their IDs from the EO database. Repeat this step for each compute, networking, and storage resources.

Example

```
DELETE /cldb/vms/<VM_ID>
```

```
DELETE /cldb/vns/<VM_ID>
```

```
DELETE /cldb/bsvs/<VM_ID>
```

```
DELETE /cldb/vapps/<vapp_ID>
```

## 3.2 Clean Up VAPP in VNF-LCM

1. Disable NFVO.
2. Run the Terminate VNF workflow with termination type forceful.

If disabling the NFVO or running the Terminate VNF workflow fails:

3. Remove the heat stack and the possibly stuck resource from the VIM.
4. When there are no resources left in the VIM, run the Terminate VNF workflow with termination type forceful.
5. Enable NFVO.

## 3.3 Clean Up VAPP in ENM

1. Remove the VAPP from ENM topology manually, using the following commands:

Example

```
cmcredit set NetworkElement=<VAPP_name>,CmNodeHeartbeatSupervisi  
on=1 active=false
```



```
ccredit set NetworkElement=<VAPP_name>,InventorySupervision=1 a →  
ctive=false  
ccredit set NetworkElement=<VAPP_name>,PmFunction=1 pmEnabled=f →  
alse  
alarm disable <vAPP_name>  
ccredit action NetworkElement=<VAPP_name>,CmFunction=1 deleteNr →  
mDataFromEnm  
ccredit delete NetworkElement=<VAPP_name> -ALL --force
```

**Note:** Save the commands in a text file, drag and drop it in ENM CLI, and run them using the following command: **batch execute file: <Commands\_in\_text\_file\_name>.txt.**



## 4 Remedies

### 4.1 Solve jboss\_user Authentication Issue

Complete the following steps to add the public key of the jboss\_user to the authorized keys.

#### Prerequisites

- The public key of the jboss\_user is available.

#### Steps

1. Log in to the VM manually:

```
ssh <user_ID>@<O&M_IP_address>
```

2. Obtain the public key using the following command:

```
sudo -u jboss_user cat /vnflcm-ext/backups/workflows/  
private_keys/default/.ssh/id_rsa.pub
```

3. Append the public key to the list of authorized keys:

```
cat .ssh/<jboss_user_public_key_file_name> >> .ssh/  
<authorized_keys_file_name>
```

4. If the SSH Connection Failed (AuthenticationException) error message is still repeating, terminate the VNF and instantiate it using the correct public key.



## 5 EO REST API Examples

### Example 1 Get the VNF Instance ID

**GET** [http://mrsvhp15-ecm1.lab.fi.eu.ericsson.se:8080/ecm\\_service/vapps/b5b5d06e-7d4d-40d7-ac47-756f38e19c67](http://mrsvhp15-ecm1.lab.fi.eu.ericsson.se:8080/ecm_service/vapps/b5b5d06e-7d4d-40d7-ac47-756f38e19c67)

```
// From the below printout you need: "managementSystemId": "b6e3c076-22f2-11e9-a96f-fa353eb6416c",
{
  "status": {
    "reqStatus": "SUCCESS",
    "credentials": "AQIC5wM2LY4Sfcyv676jMChSus3yvGX6DM0Hrs5PNAuFZWU.*AAJTSQACMDEAA1NLABQtNDY0MzAxNzQ2NTQ2NDIwMjkyNAACUzEAAA.*"
  },
  "data": {
    "vapp": {
      "id": "b5b5d06e-7d4d-40d7-ac47-756f38e19c67",
      "name": "FI14-vMRF-0128-openstack-88220",
      "provisioningStatus": "ACTIVE",
      "productInfo": {
        "vendor": "Ericsson",
        "version": "1.7.0-f1e9da4e-openstack"
      },
      "isLocked": false,
      "vnfm": {
        "id": "310bf823-11bc-430a-b22c-8c904ed05275",
        "name": "fi14-enm",
        "vnfmType": "EXTERNAL_V2"
      },
      "sourceType": "VNF Package 2",
      "tenantName": "fi-14",
      "vdc": {
        "id": "dca9076f-185c-4888-bac7-a9ccebbcb836",
        "name": "ebs2-mirantis"
      },
      "flavor": "openstack",
      "sourceId": "d7a3fe57-d67d-4d89-86cf-3c0808008503",
      "managementSystemId": "b6e3c076-22f2-11e9-a96f-fa353eb6416c",
      "vnflcmGrants": {
        "id": ["a01325b2-da1b-4059-8909-4a9be907a95a"]
      },
      "vimZone": {
        "name": "EBS2",
        "type": "OPENSTACK"
      },
      "inventoryIncomplete": false,
      "lastModifiedBy": "esmumuz-fi14",
      "createReqNumber": "242528",
      "operationalStatus": "INSTANTIATED",
      "deploymentParameters": {
        "dataVNFDSpecific": {
          "vnfdId": "vMRF-1.7.0-f1e9da4e-openstack",
          "vnfProvider": "Ericsson",
          "vnfProductName": "vMRF",
          "vnfSoftwareVersion": "1.7.0-f1e9da4e",
          "vnfdVersion": "1.7.0-f1e9da4e-openstack",
          "flavourId": "openstack",
          "scalingAspect": [{
            "id": "default",
            "name": "default",
            "description": "Default scaling domain",
            "maxScaleLevel": 30
          }],
          "vnflcmOperationsConfiguration": {
            "scale": {
              "scalingByMoreThanOneStepSupported": true
            }
          }
        },
        "instantiateVnfOpConfig": {
          "payload_instance_count": 1,
          "mrf_config": ""
        }
      }
    }
  }
}
```



```
"mrf_image": "vmrf-20190128-103550-cb966a9bca44021dac550e7ac071ff580855cc6b",
"mrf_flavor": "CM-MRSv-6-06",
"security_group": "default",
"affinity_policy": "anti-affinity",
"availability_zone": "fi-14",
"admin_username": "esmmumuz",
"admin_groups": "com-emergency, tracing, system-ts, mrf-op, mrf-ts, mrf-msr, systemd-journal, c
mw-imm-users",
"admin_password_hash": "$6$pyoUBR4G1fzQ$UPUD0Qc0SjetFE2vihlfUXxkFC2vJXV5zHra4KHZ1v1NHg1F
DIscaIPSeFQvdfCxTQKU.mHQfpGfb0jhP6Xi0",
"admin_authorized_key": "ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQCTaQLTrfAN1NuV0EKxsZKZE8u
aJ65qm+LfdTdJsk1UDG3USfPgjdntud+UBnZYFvYcGzV8F9oD2xZ3IHu+DipwDz/qpW8uqd0NvauIy3GgiUqFnFtbQR/AwBT
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GiDcnS9diJbBK16761qQvYn esmmumuzafijocls020\nsssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQADz+ijK3w8kjNwo6
vwGFOMNaLAH2AofF9qoYaywDCqYjqGzNg53c4sE91G0CF6iwmKmamIUw+U6cH8RXI3Z6kaur0iPv+e1ZoZP/GXWtWEE+UsoWx
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9jLknBjCXS10VpuqoMzUnnPY9ietIsggg735IkPCbouKmmQqcBo1MG8SWHCiVvgao08bnSwUvNVA12d5JWacKIZVNzF71C+hCo
6FtXj9n0uyPQADpC80vMqz4WWR7CCeuMsS62iL4+HHZ3My9bDFh92E+j/oKa9JrEmMuRtEt0R/EaZaENU+E9FjImRhYtMTTR
5205kAEw20XSRphdzvKafVzX29nQ1wt0yv91N972irx4G+xcFgQwb8762FNbw4SgSGHPrZ6pjJYMMeyhRv48hZDokV8y0He
xEqLnVR10A7Hj7ia4HggEUDj5u88wkrC7/sHlqepnfFJHJyV0DdvIa8j7aivLeVPnt1vNb694067WvTw== esmmumuz@HU0007
5872Vnssh-rsa AAAAB3NzaC1yc2EAAAABIAAAQEA9Kux0zszRvI5LWg0U/qAUVP09PyTqikxiajkwXWHjsfEsmoWA9dSe3VJ
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xsI+DL217vwWf7T2J3tz/o7f2IY0FSQWesogKuCbT0jJFcpMugkMQDKrmfz1ViufKtGRQhs4xhn9ektLM6C1nhkvQ== root@
vnflaf-services",
"media_net_name": "ECM-Net-ext",
"management_net_name": "FI14-mrs-mgmt",
"signaling_net_name": "FI14-mrs-sig",
"ntp_server_1": "ntp1.lab.fi.eu.ericsson.se",
"ntp_server_2": "ntp2.lab.fi.eu.ericsson.se",
"external_net_name": "whatever",
"timeout": 600,
"announcement_storage_server_username": "misfits",
"announcement_storage_ssh_private_key": "-----BEGIN RSA PRIVATE KEY-----\nMIIEpAIBAAKCAQ
EAWDKX9h10QWIBLNz+T2WxDGIpfaIDIRN7y+HB5qRhRdGd6S+x\nfjSULzRsEDF/vpQR6EwXRBegFmmIntXCqL3kIhIeA1AQSQ
FeEnRr2FdUKI2bLVaW\nfnaInm0JhrehVhhf6ReV4CJB5xQJ7I3p40bHyTLCpjmD6ig2p+cdg9+uFuYgeSnXSi\nn9eIS1UekA8Cv
zzAbAbhZxgrHzzqZU/MKgx+0w1013XuBkA9Bhbqf7IrEw3GY5sk\nmBAGcMhMNVdtdjig3EFs1b7GP0xmnggC231GW0iWo7mT5
Rxqk1K2gyDW4WXY+v74Dx\ni33zOhosUgXwq1f3ImT5Ww1X5dghmDioWhYG0WIDAQABAoIBAQC4xar8DDMAZJR\nnqqg/F/e0/S
wARynReaaxSlecQXoEddytypEr0KaJfy9Inh2+fsF+HvDbIHZjQ4/5\ni225xdz1uE8rUAdn+C2VNmGbudEjr6F4g97n5yWGiN
nZUUVhiWwXrv4F9VJRmpVo\nfN9Y0WcsuY0WbZ87cf0fu5FSilZ9E9WpIvyuEGHLchpCPImggzGxKoeP1Y5IhPdPz\nnyeK6dmmY
wVtJiZWwKHLASzAuv/OhTUrRadRo0e24GZdHNxMAMzaafpAq2Kh96Zis\nnrd7RPhkgTuQzqPVstgdgnZtYuAQtpYIPdb1fmWrk05
Fwn6fL1zxZjBC+sin+Ugyn5R\nn2r9LxRz5AoGBAN6inkkwnE3wn4bhJaSokM11WmzCG5AYEcMX0UEK+oPSdUfYm4I7\nnspkY09
vAQ61WZ/pfC5gzWtGCHLS1eMz/qMwR6G1Q5X70RgvSYKd67aUKAzipMI79\nntYzKoXpvQMufbMB93ygLAL9u36sfS4Gm0hzRkK
qbMcBb4NhZIxspk0oIAoGBAN0A\nnPU5mmMVPRYIqx+deglvBRqCT6a1C8eXgJo4WlIfMtxZuRtokP8HbRfQ+Qx0n4Z46U\nnfzSb
uwPyVYEQLciac7nYmcrPeYI9f08RfQ/hF+7pWdJRAfI6wRPr8cIwMf6JVGE\nndI3fSpiPen6PHBR66Dx6s5BXwEpEuoVvTTIu
NpyvAoGAbuiEAEH9e7ZLQ14W6pgu\nnyq0bEGMCaB4VeyL6U3Ssp87LlpyDca/YtotcG0vUUSCN+/xTrkGnSg8KHANAWI\nnhj
Bfa7UPHS7TkIAVNLm+2WDLigZ+8jzhnGm1V9DkbobVGVw+bI8+XZ2MFmtYqhX4\nnxkfKAJv15I2Kh+CUvn/BuN6ECgYAr8ig+tt
gaJDFG0QuXTpNvAnfw5njIV6+Sbog8\nnKNqHaMqzLJZPvoqJ11xxvBaHTM6fvzskSsXFdE640S5xzzL7+51DeyzoVb3ehrM\nn
VY5Uy8I4uDSM3+wU8fUL1wm+uldBZn1m2MgUnh6nW/3RdL9Jh3y9bzw1jwB52DAZ\nnkmb5sQKBgQC8q6UyiggBMGPt92yu1lur
i008UGL6KtM6eovf/iTGkU6CK0Ao5a7\nnr/UwM9nb0Z2ZhdhPURAQ6M5G4XYGWNbXy/aCziFYDxjMDQJ13v4GCDWdjJm8ceov0
\nzswVqNhGb1LXNEedBbiv1SF8+2nVoqcMDTqzCkLW/jx7T+nn8VcrN1A=-----END RSA PRIVATE KEY-----",
"announcement_storage_server_path": "/home/misfits/announcement_storage/",
"announcement_storage_server_ip": "131.160.89.164",
"announcement_storage_server_port": "22",
"announcement_storage_server_fingerprint": "131.160.89.164 ecdsa-sha2-nistp256 AAAAE2VjZ
HNhLXNoYTYtbnlzdHAyNTYAAAAIbmlzdHAyNTYAAABBLPcSk4oqAglyXp50T17eW0gPIuTN8i4kjQ6pNv15DjYrYh7w/+nSXQ
p12cAiPZYfzh98nY7Z77mCIV7HKC596JNY=\n131.160.89.164 ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQADQiNe8gd+5
rcDyM50VEneoni5hv62z/4oCZYDLCHpFsQv1pbe1boYoxR7PKTHPdo75c0p1VTuax1113cxR4GzT6YCXjQRZPZMA0v8vVCTU
zM0kDWJX2tKG3xH+7kSwz6vbUBKUdvzLF6jFeNoRh8cB/PGprW6bbOfg7XHm+9w/or0dZ1t9IYk97zvoXZ620yh0um0HiSGV2
2PRhGL5H1FKzkW6Qusx7aUL1zeorZdyF/vCsD6DgJIRXGNAEBj23JWzmPbiblLMV0rP08ycK2MsD+2GwutFuSftPWNpRSN76RU
RsGYg75ZRVhyrLZ4pZjJCVW0FTFJIExid6/0j",
"shared_storage_server_username": "",
"shared_storage_ssh_private_key": "",
"shared_storage_server_path": "",
"shared_storage_server_ip": "",
"shared_storage_server_port": "",
"shared_storage_server_fingerprint": "",
"pm_data_monitoring_hosts_ip_address": "131.160.89.233",
"pm_data_monitoring_hosts_port": "8125",
"watchdog_interval": 1,
"watchdog_enable": 0,
"workflow_lcmScriptTimeout": "1800",
"workflow_addVNFtoOSS": "false",
"workflow_networkElementUsername": "esmmumuz",
"workflow_networkElementPassword": "ZXNtdW1leg==",
"workflow_networkElementType": "vMRF",
"workflow_networkElementVersion": "vMRF-1.2",
"workflow_nodeIpAddress": "131.160.88.220",
```



```

        "workflow_snmpPort": "161",
        "workflow_netConfPort": "830",
        "workflow_managedElementSrcType": "CBA",
        "workflow_subNetworks": "",
        "workflow_associatedSite": "Finland"
    },
    "terminateVnfOpConfig": {}
}
}
}
}
}

```

## Example 2 List the Resource Names Using the VNF Instance ID

**GET [https://fi14-enm.lab.fi.eu.ericsson.se/vnflcm/v1/vnf\\_instances/b6e3c076-22f2-11e9-a96f-fa353eb6416c](https://fi14-enm.lab.fi.eu.ericsson.se/vnflcm/v1/vnf_instances/b6e3c076-22f2-11e9-a96f-fa353eb6416c)**

```

/* From the below printout you need:
- vnfcResourceInfo: FI14-vMRF-0128-openstack-88220-0
- vnfVirtualLinkResourceInfo: FI14-vMRF-0128-openstack-88220_mrf_internal (only nw needed)
- virtualStorageResourceInfo: FI14-vMRF-0128-openstack-88220-0
*/
{
  "id": "b6e3c076-22f2-11e9-a96f-fa353eb6416c",
  "vnfInstanceName": "FI14-vMRF-0128-openstack-88220",
  "vnfdId": "vMRF-1.7.0-f1e9da4e-openstack",
  "vnfProvider": "Ericsson",
  "vnfProductName": "vMRF",
  "vnfSoftwareVersion": "1.7.0-f1e9da4e",
  "vnfdVersion": "1.7.0-f1e9da4e-openstack",
  "onboardedVnfPkgInfoId": "d7a3fe57-d67d-4d89-86cf-3c0808008503",
  "vnfConfigurableProperties": "{ \"isAutoScaleEnabled\": \"true\", \"isAutoHealingEnabled\": \"true\" }",
  "vimConnectionInfo": [
    {
      "id": "f8305d64-22f2-11e9-a96f-fa353eb6416c",
      "vimId": "1175bbe5-20c7-11e9-a96f-fa353eb6416c",
      "vimType": "OPENSTACK",
      "interfaceInfo": {
        "identityEndPoint": "http://131.160.89.209:5000/v2.0"
      },
      "accessInfo": {
        "projectId": "5952a0a484d54b3db25ccc189c9b9c19",
        "projectName": "FI14"
      }
    }
  ],
  "instantiationState": "INSTANTIATED",
  "instantiatedVnfInfo": {
    "flavourId": "openstack",
    "vnfState": "STARTED",
    "scaleStatus": [
      {
        "aspectId": "default",
        "scaleLevel": 1
      }
    ]
  },
  "extCpInfo": [],
  "extVirtualLinkInfo": [
    {
      "id": "FI14-mrs-mgmt",
      "resourceHandle": {
        "vimConnectionId": "f8305d64-22f2-11e9-a96f-fa353eb6416c",
        "resourceProviderId": "",
        "resourceId": "31340cc1-591b-460f-b558-1310b1d17df0",
        "vimLevelResourceType": "OS::Neutron::Net"
      },
      "linkPorts": [
        {
          "id": "movable_ip_port",
          "resourceHandle": {
            "vimConnectionId": "f8305d64-22f2-11e9-a96f-fa353eb6416c",
            "resourceProviderId": "",
            "resourceId": "adcb7731-7307-4abb-8129-cc47759cd6b8",
            "vimLevelResourceType": "OS::Neutron::Port"
          }
        }
      ]
    }
  ]
}

```



```
    },
    {
      "id": "management_port",
      "resourceHandle": {
        "vimConnectionId": "f8305d64-22f2-11e9-a96f-fa353eb6416c",
        "resourceProviderId": "",
        "resourceId": "ca5013f3-4858-4d4c-b1a0-f4131bdbd821",
        "vimLevelResourceType": "OS::Neutron::Port"
      }
    }
  ],
  {
    "id": "ECM-Net-ext",
    "resourceHandle": {
      "vimConnectionId": "f8305d64-22f2-11e9-a96f-fa353eb6416c",
      "resourceProviderId": "",
      "resourceId": "dc4baacd-6287-4a15-9641-95a3fb5372bf",
      "vimLevelResourceType": "OS::Neutron::Net"
    },
    "linkPorts": [
      {
        "id": "media_port",
        "resourceHandle": {
          "vimConnectionId": "f8305d64-22f2-11e9-a96f-fa353eb6416c",
          "resourceProviderId": "",
          "resourceId": "96028da0-46ec-4454-a2ee-670d91e81ea1",
          "vimLevelResourceType": "OS::Neutron::Port"
        }
      }
    ]
  },
  {
    "id": "FI14-mrs-sig",
    "resourceHandle": {
      "vimConnectionId": "f8305d64-22f2-11e9-a96f-fa353eb6416c",
      "resourceProviderId": "",
      "resourceId": "46b8bd98-2e56-485f-93a8-07d68d4b5795",
      "vimLevelResourceType": "OS::Neutron::Net"
    },
    "linkPorts": [
      {
        "id": "signaling_port",
        "resourceHandle": {
          "vimConnectionId": "f8305d64-22f2-11e9-a96f-fa353eb6416c",
          "resourceProviderId": "",
          "resourceId": "9da6a9db-ec7a-42c4-901f-3e79873ca0c0",
          "vimLevelResourceType": "OS::Neutron::Port"
        }
      }
    ]
  }
],
"vnfcResourceInfo": [
  {
    "id": "FI14-vmrf-0128-openstack-88220-0",
    "vduId": "scaled_vm",
    "computeResource": {
      "vimConnectionId": "f8305d64-22f2-11e9-a96f-fa353eb6416c",
      "resourceProviderId": "",
      "resourceId": "4ed1cec6-3250-4ae5-8667-6f9fe24e7034",
      "vimLevelResourceType": "OS::Nova::Server"
    },
    "storageResourceIds": [
      "8f6c3ce2-c10b-48d9-9ad3-97fa0bc5afc9"
    ],
    "vnfcCpInfo": []
  }
],
"vnfVirtualLinkResourceInfo": [
  {
    "id": "FI14-vmrf-0128-openstack-88220_mrf_internal",
    "virtualLinkDescId": "internal_net",
    "networkResource": {
      "vimConnectionId": "f8305d64-22f2-11e9-a96f-fa353eb6416c",
      "resourceProviderId": "",
      "resourceId": "0ac7185a-9709-459b-b079-ef8cafe41ab0",
      "vimLevelResourceType": "OS::Neutron::Net"
    }
  }
]
```





```

        "vnflinkPorts": [
            {
                "id": "internal_port",
                "resourceHandle": {
                    "vimConnectionId": "f8305d64-22f2-11e9-a96f-fa353eb6416c",
                    "resourceProviderId": "",
                    "resourceId": "a23fd010-5b1f-4293-a62f-b520ed4935b6",
                    "vimLevelResourceType": "OS::Neutron::Port"
                }
            }
        ],
        "virtualStorageResourceInfo": [
            {
                "id": "FI14-vMRF-0128-openstack-88220-0",
                "virtualStorageDescId": "mrf_volume_resource",
                "storageResource": {
                    "vimConnectionId": "f8305d64-22f2-11e9-a96f-fa353eb6416c",
                    "resourceProviderId": "",
                    "resourceId": "8f6c3ce2-c10b-48d9-9ad3-97fa0bc5afc9",
                    "vimLevelResourceType": "OS::Cinder::Volume"
                }
            }
        ],
        "metadata": "{\\\"addVNFToOSS\\\":\\\"false\\\"}",
        "_links": {
            "self": {
                "href": "https://fi14-enm.lab.fi.eu.ericsson.se/vnflcm/v1/vnf_instances/b6e3c076-22f2-11e9-a96f-fa353eb6416c"
            },
            "terminate": {
                "href": "https://fi14-enm.lab.fi.eu.ericsson.se/vnflcm/v1/vnf_instances/b6e3c076-22f2-11e9-a96f-fa353eb6416c/terminate"
            }
        }
    }
}

```

### Example 3 Get the Compute Resource ID

**GET** [http://mrsvhp15-ecm1.lab.fi.eu.ericsson.se:8080/ecm\\_service/vms](http://mrsvhp15-ecm1.lab.fi.eu.ericsson.se:8080/ecm_service/vms)

```

// From the printout below you would need the id belonging to FI14-vMRF-0128-openstack-88220-0
// However, in this example the compute resource is missing from ECM as a result of the error case
// - failed synchronization between VNF-LCM and ECM after instantiation.
{
    "status": {
        "reqStatus": "SUCCESS",
        "credentials": "AQIC5wM2LY4Sfcz61TmWp0ehD4EZvhQTQdCHjx8nwnYxIFo.*AAJTSQACMDEAA1NLABM2MjM1NzI10
DA20DI5Mzc4NjY1AAJTMQAA*"
    },
    "data": {
        "vms": [{
            "createReqNumber": "241433",
            "vimZone": {
                "name": "EBS3-CEE",
                "type": "CEE"
            },
            "vimObjectId": "52c28a58-f4af-4474-a726-96e790523e4b",
            "hostId": "db7b59b122d865a261492b06436e0c0fd48e34baf43edc829ecd31b3",
            "lastModifiedBy": "esmumuz",
            "bootSource": {
                "imageName": "vmrf-170-candidate-20190125-100029-f1e9da4e416437e5962d99699c67a58bfc116013"
            },
            "vmhdName": "CM-MRSv-6-06",
            "availabilityZone": "FI14",
            "createTs": "2019-01-25T18:38:35Z",
            "updateTs": "2019-01-25T18:38:51Z",
            "srt": {
                "name": "CM-MRSv-6-06"
            },
            "vdc": {
                "id": "525542e0-a9e6-4aca-904d-fcf982021ddb",
                "name": "ebs3-cee-fi14"
            }
        }]
    }
}

```



```
{
  "vapp": {
    "id": "72b9b36a-12f6-4602-9a99-c7f56d0599a6",
    "name": "FI14-vMRF-0125-f1e9da4e-cee-122",
    "provisioningStatus": "ACTIVE",
    "isLocked": false,
    "sourceType": "VNF Package 2"
  },
  {
    "id": "cd0027e0-4a3c-49c8-b279-43e21f46f8d7",
    "name": "FI14-vMRF-0125-f1e9da4e-cee-122-1",
    "provisioningStatus": "ACTIVE",
    "tenantName": "fi-14",
    "operationalStatus": "ACTIVE"
  },
  {
    "createReqNumber": "241433",
    "vimZone": {
      "name": "EBS3-CEE",
      "type": "CEE"
    },
    "vimObjectId": "4a709a1a-5829-4f94-8776-7502345f7be0",
    "hostId": "90b2641156348b9c3ee44aa2024fb877520b01b9641c6a9218e08c83",
    "lastModifiedBy": "esmunuz",
    "bootSource": {
      "imageName": "vmrf-170-candidate-20190125-100029-f1e9da4e416437e5962d99699c67a58bfc116013"
    },
    "vmhdName": "CM-MRSv-6-06",
    "availabilityZone": "FI14",
    "createTs": "2019-01-25T18:38:36Z",
    "updateTs": "2019-01-25T18:38:50Z",
    "srt": {
      "name": "CM-MRSv-6-06"
    }
  },
  {
    "vdc": {
      "id": "525542e0-a9e6-4aca-904d-fcf982021ddb",
      "name": "ebs3-cee-fi14"
    },
    "vapp": {
      "id": "72b9b36a-12f6-4602-9a99-c7f56d0599a6",
      "name": "FI14-vMRF-0125-f1e9da4e-cee-122",
      "provisioningStatus": "ACTIVE",
      "isLocked": false,
      "sourceType": "VNF Package 2"
    },
    {
      "id": "d2a56ec6-a052-4a32-aae4-1cbe33cff0c7",
      "name": "FI14-vMRF-0125-f1e9da4e-cee-122-0",
      "provisioningStatus": "ACTIVE",
      "tenantName": "fi-14",
      "operationalStatus": "ACTIVE"
    },
    {
      "createReqNumber": "241433",
      "vimZone": {
        "name": "EBS3-CEE",
        "type": "CEE"
      },
      "vimObjectId": "44e30be4-6eff-417a-a4ee-f8179723a0e1",
      "hostId": "f0a417dc44a8d89219f9e626abf5ea433215553697dd7c26a1f2bb2d",
      "lastModifiedBy": "esmunuz",
      "bootSource": {
        "imageName": "vmrf-170-candidate-20190125-100029-f1e9da4e416437e5962d99699c67a58bfc116013"
      },
      "vmhdName": "CM-MRSv-6-06",
      "availabilityZone": "FI14",
      "createTs": "2019-01-25T18:38:37Z",
      "updateTs": "2019-01-25T18:38:52Z",
      "srt": {
        "name": "CM-MRSv-6-06"
      }
    },
    {
      "vdc": {
        "id": "525542e0-a9e6-4aca-904d-fcf982021ddb",
        "name": "ebs3-cee-fi14"
      },
      "vapp": {
        "id": "72b9b36a-12f6-4602-9a99-c7f56d0599a6",
        "name": "FI14-vMRF-0125-f1e9da4e-cee-122",
        "provisioningStatus": "ACTIVE",
        "isLocked": false,
        "sourceType": "VNF Package 2"
      },
      {
        "id": "5658a0b0-a0c8-4bab-8870-6649d6d452a4",
        "name": "FI14-vMRF-0125-f1e9da4e-cee-122-2",

```



```

    "provisioningStatus": "ACTIVE",
    "tenantName": "fi-14",
    "operationalStatus": "ACTIVE"
  }, {
    "createReqNumber": "151194",
    "vimZone": {
      "name": "EBS3-CEE",
      "type": "CEE"
    },
    "vimObjectId": "7e6c6b85-06f5-4c92-b034-440556eb79b9",
    "hostId": "90b2641156348b9c3ee44aa2024fb877520b01b9641c6a9218e08c83",
    "lastModifiedBy": "esmuz",
    "bootSource": {
      "imageName": "vbgf-20181201-101846-7c363b213b07a27c292681e7a49bf5f63c0e4070"
    },
    "vmhdName": "CM-MRSv-6-06",
    "availabilityZone": "FI14",
    "createTs": "2018-12-04T13:47:23Z",
    "updateTs": "2018-12-04T13:47:51Z",
    "srt": {
      "name": "CM-MRSv-6-06"
    },
    "vdc": {
      "id": "525542e0-a9e6-4aca-904d-fcf982021ddb",
      "name": "ebs3-cee-fi14"
    },
    "vapp": {
      "id": "bf3f387f-1a7d-4d1e-b86d-a792e0fdde82",
      "name": "FI14-vBGF-7c363b21-cee_red_trunkports-1204-9",
      "provisioningStatus": "ACTIVE",
      "isLocked": false,
      "sourceType": "VNF Package 2"
    },
    "id": "321baace-4c3b-49ca-ae44-ca35ec089c0d",
    "name": "FI14-vBGF-7c363b21-cee_red_trunkports-1204-9-standby-0",
    "provisioningStatus": "ACTIVE",
    "tenantName": "fi-14",
    "operationalStatus": "ACTIVE"
  }, {
    "createReqNumber": "151194",
    "vimZone": {
      "name": "EBS3-CEE",
      "type": "CEE"
    },
    "vimObjectId": "9207f090-2f60-45bf-8d58-4e8e1417df29",
    "hostId": "db7b59b122d865a261492b06436e0c0fd48e34baf43edc829ecd31b3",
    "lastModifiedBy": "esmuz",
    "bootSource": {
      "imageName": "vbgf-20181201-101846-7c363b213b07a27c292681e7a49bf5f63c0e4070"
    },
    "vmhdName": "CM-MRSv-6-06",
    "availabilityZone": "FI14",
    "createTs": "2018-12-04T13:47:22Z",
    "updateTs": "2018-12-04T13:47:52Z",
    "srt": {
      "name": "CM-MRSv-6-06"
    },
    "vdc": {
      "id": "525542e0-a9e6-4aca-904d-fcf982021ddb",
      "name": "ebs3-cee-fi14"
    },
    "vapp": {
      "id": "bf3f387f-1a7d-4d1e-b86d-a792e0fdde82",
      "name": "FI14-vBGF-7c363b21-cee_red_trunkports-1204-9",
      "provisioningStatus": "ACTIVE",
      "isLocked": false,
      "sourceType": "VNF Package 2"
    },
    "id": "39992a5d-45dd-4c65-be8d-1e3ab8aa0476",
    "name": "FI14-vBGF-7c363b21-cee_red_trunkports-1204-9-1",
    "provisioningStatus": "ACTIVE",
    "tenantName": "fi-14",
    "operationalStatus": "ACTIVE"
  }, {
    "createReqNumber": "151194",
    "vimZone": {
      "name": "EBS3-CEE",
      "type": "CEE"
    },
    "vimObjectId": "cb41574f-7718-4161-ba22-9b0586e5295c",

```



```
"hostId": "90b2641156348b9c3ee44aa2024fb877520b01b9641c6a9218e08c83",
"lastModifiedBy": "esmunuz",
"bootSource": {
  "imageName": "vbgf-20181201-101846-7c363b213b07a27c292681e7a49bf5f63c0e4070"
},
"vmhdName": "CM-MRSv-6-06",
"availabilityZone": "FI14",
"createTs": "2018-12-04T13:47:23Z",
"updateTs": "2018-12-04T13:47:57Z",
"srt": {
  "name": "CM-MRSv-6-06"
},
"vdc": {
  "id": "525542e0-a9e6-4aca-904d-fcf982021ddb",
  "name": "ebs3-cee-fi14"
},
"vapp": {
  "id": "bf3f387f-1a7d-4d1e-b86d-a792e0fdde82",
  "name": "FI14-vBGF-7c363b21-cee_red_trunkports-1204-9",
  "provisioningStatus": "ACTIVE",
  "isLocked": false,
  "sourceType": "VNF Package 2"
},
{id": "ce0ea5d1-1302-4631-ab92-cc659f36cc27",
"name": "FI14-vBGF-7c363b21-cee_red_trunkports-1204-9-0",
"provisioningStatus": "ACTIVE",
"tenantName": "fi-14",
"operationalStatus": "ACTIVE"
}, {
  "createReqNumber": "151636",
  "vimZone": {
    "name": "EBS3-CEE",
    "type": "CEE"
  },
  "vimObjectId": "f67a0187-f94b-4651-848f-7e7db93a8c81",
  "hostId": "db7b59b122d865a261492b06436e0c0fd48e34baf43edc829ecd31b3",
  "lastModifiedBy": "esmunuz",
  "bootSource": {
    "imageName": "vbgf-20181201-101846-7c363b213b07a27c292681e7a49bf5f63c0e4070"
  },
  "vmhdName": "CM-MRSv-6-06",
  "availabilityZone": "FI14",
  "createTs": "2018-12-04T13:58:17Z",
  "updateTs": "2018-12-04T13:58:38Z",
  "srt": {
    "name": "CM-MRSv-6-06"
  },
  "vdc": {
    "id": "525542e0-a9e6-4aca-904d-fcf982021ddb",
    "name": "ebs3-cee-fi14"
  },
  "vapp": {
    "id": "bf3f387f-1a7d-4d1e-b86d-a792e0fdde82",
    "name": "FI14-vBGF-7c363b21-cee_red_trunkports-1204-9",
    "provisioningStatus": "ACTIVE",
    "isLocked": false,
    "sourceType": "VNF Package 2"
  },
  "id": "8aabd18a-92ef-4447-9bf4-9eae738d1f8",
  "name": "FI14-vBGF-7c363b21-cee_red_trunkports-1204-9-3",
  "provisioningStatus": "ACTIVE",
  "tenantName": "fi-14",
  "operationalStatus": "ACTIVE"
}, {
  "createReqNumber": "151636",
  "vimZone": {
    "name": "EBS3-CEE",
    "type": "CEE"
  },
  "vimObjectId": "075ed987-1f14-47c0-bfc7-e1983a1a03b9",
  "hostId": "90b2641156348b9c3ee44aa2024fb877520b01b9641c6a9218e08c83",
  "lastModifiedBy": "esmunuz",
  "bootSource": {
    "imageName": "vbgf-20181201-101846-7c363b213b07a27c292681e7a49bf5f63c0e4070"
  },
  "vmhdName": "CM-MRSv-6-06",
  "availabilityZone": "FI14",
  "createTs": "2018-12-04T13:58:21Z",
  "updateTs": "2018-12-04T13:58:44Z",
  "srt": {
```



```

    "name": "CM-MRSv-6-06"
  },
  "vdc": {
    "id": "525542e0-a9e6-4aca-904d-fcf982021ddb",
    "name": "ebs3-cee-fi14"
  },
  "vapp": {
    "id": "bf3f387f-1a7d-4d1e-b86d-a792e0fdde82",
    "name": "FI14-vBGF-7c363b21-cee_red_trunkports-1204-9",
    "provisioningStatus": "ACTIVE",
    "isLocked": false,
    "sourceType": "VNF Package 2"
  },
  {
    "id": "c1a95707-8623-4786-a558-0883a9942064",
    "name": "FI14-vBGF-7c363b21-cee_red_trunkports-1204-9-2",
    "provisioningStatus": "ACTIVE",
    "tenantName": "fi-14",
    "operationalStatus": "ACTIVE"
  },
  {
    "createReqNumber": "151636",
    "vimZone": {
      "name": "EBS3-CEE",
      "type": "CEE"
    },
    "vimObjectId": "74e68fed-c0eb-4740-b767-96b1607b6c11",
    "hostId": "f0a417dc44a8d89219f9e626abf5ea433215553697dd7c26a1f2bb2d",
    "lastModifiedBy": "esmunuz",
    "bootSource": {
      "imageName": "vbgf-20181201-101846-7c363b213b07a27c292681e7a49bf5f63c0e4070"
    },
    "vmhdName": "CM-MRSv-6-06",
    "availabilityZone": "FI14",
    "createTs": "2018-12-04T13:58:15Z",
    "updateTs": "2018-12-04T13:58:40Z",
    "srt": {
      "name": "CM-MRSv-6-06"
    }
  },
  "vdc": {
    "id": "525542e0-a9e6-4aca-904d-fcf982021ddb",
    "name": "ebs3-cee-fi14"
  },
  "vapp": {
    "id": "bf3f387f-1a7d-4d1e-b86d-a792e0fdde82",
    "name": "FI14-vBGF-7c363b21-cee_red_trunkports-1204-9",
    "provisioningStatus": "ACTIVE",
    "isLocked": false,
    "sourceType": "VNF Package 2"
  },
  {
    "id": "15c18dc9-3926-47a7-a1da-d4d3321e0992",
    "name": "FI14-vBGF-7c363b21-cee_red_trunkports-1204-9-4",
    "provisioningStatus": "ACTIVE",
    "tenantName": "fi-14",
    "operationalStatus": "ACTIVE"
  },
  {
    "createReqNumber": "155057",
    "vimZone": {
      "name": "EBS3-CEE",
      "type": "CEE"
    },
    "vimObjectId": "e8502784-51b6-4f6a-a5af-1a84f4173d67",
    "hostId": "db7b59b122d865a261492b06436e0c0fd48e34baf43edc829ecd31b3",
    "lastModifiedBy": "esmunuz",
    "bootSource": {
      "imageName": "vbgf-20181201-101846-7c363b213b07a27c292681e7a49bf5f63c0e4070"
    },
    "vmhdName": "CM-MRSv-6-06",
    "availabilityZone": "FI14",
    "createTs": "2018-12-05T08:32:06Z",
    "updateTs": "2018-12-05T08:32:26Z",
    "srt": {
      "name": "CM-MRSv-6-06"
    }
  },
  "vdc": {
    "id": "525542e0-a9e6-4aca-904d-fcf982021ddb",
    "name": "ebs3-cee-fi14"
  },
  "vapp": {
    "id": "b2c8d46f-d5ee-4a7f-9099-2ace5d6dfa23",
    "name": "FI14-vBGF-7c363b21-cee-1205-2",
    "provisioningStatus": "ACTIVE",

```



```
    "isLocked": false,
    "sourceType": "VNF Package 2"
  },
  {
    "id": "4364a21f-dbc0-4e37-99ac-80ec1488fbff",
    "name": "FI14-vBGF-7c363b21-cee-1205-2-1",
    "provisioningStatus": "ACTIVE",
    "tenantName": "fi-14",
    "operationalStatus": "ACTIVE"
  },
  {
    "createReqNumber": "155057",
    "vimZone": {
      "name": "EBS3-CEE",
      "type": "CEE"
    },
    "vimObjectId": "be844344-8bbb-4650-884c-832861fddf80",
    "hostId": "90b2641156348b9c3ee44aa2024fb877520b01b9641c6a9218e08c83",
    "lastModifiedBy": "esmunuz",
    "bootSource": {
      "imageName": "vbgf-20181201-101846-7c363b213b07a27c292681e7a49bf5f63c0e4070"
    },
    "vmhdName": "CM-MRSv-6-06",
    "availabilityZone": "FI14",
    "createTs": "2018-12-05T08:32:03Z",
    "updateTs": "2018-12-05T08:32:24Z",
    "srt": {
      "name": "CM-MRSv-6-06"
    }
  },
  {
    "vdc": {
      "id": "525542e0-a9e6-4aca-904d-fcf982021ddb",
      "name": "ebs3-cee-fi14"
    },
    "vapp": {
      "id": "b2c8d46f-d5ee-4a7f-9099-2ace5d6dfa23",
      "name": "FI14-vBGF-7c363b21-cee-1205-2",
      "provisioningStatus": "ACTIVE",
      "isLocked": false,
      "sourceType": "VNF Package 2"
    },
    "id": "ebd179a3-246a-4b78-9a6e-0f677a3b4dee",
    "name": "FI14-vBGF-7c363b21-cee-1205-2-2",
    "provisioningStatus": "ACTIVE",
    "tenantName": "fi-14",
    "operationalStatus": "ACTIVE"
  },
  {
    "createReqNumber": "155878",
    "vimZone": {
      "name": "EBS3-CEE",
      "type": "CEE"
    },
    "vimObjectId": "fe0ab382-fa6e-444f-aea7-62ae5097157b",
    "hostId": "db7b59b122d865a261492b06436e0c0fd48e34baf43edc829ecd31b3",
    "lastModifiedBy": "esmunuz",
    "bootSource": {
      "imageName": "vbgf-20181201-101846-7c363b213b07a27c292681e7a49bf5f63c0e4070"
    },
    "vmhdName": "CM-MRSv-6-06",
    "availabilityZone": "FI14",
    "createTs": "2018-12-05T08:45:59Z",
    "updateTs": "2018-12-05T08:46:13Z",
    "srt": {
      "name": "CM-MRSv-6-06"
    }
  },
  {
    "vdc": {
      "id": "525542e0-a9e6-4aca-904d-fcf982021ddb",
      "name": "ebs3-cee-fi14"
    },
    "vapp": {
      "id": "b2c8d46f-d5ee-4a7f-9099-2ace5d6dfa23",
      "name": "FI14-vBGF-7c363b21-cee-1205-2",
      "provisioningStatus": "ACTIVE",
      "isLocked": false,
      "sourceType": "VNF Package 2"
    },
    "id": "e4b99f90-0a07-4630-9e3e-da435acadb6d",
    "name": "FI14-vBGF-7c363b21-cee-1205-2-0",
    "provisioningStatus": "ACTIVE",
    "tenantName": "fi-14",
    "operationalStatus": "ACTIVE"
  },
  {
    "createReqNumber": "175339",
```



```

    "vimZone": {
      "name": "EBS3-CEE",
      "type": "CEE"
    },
    "vimObjectId": "4d5554b0-d2c3-4caa-9515-b7020f754a2d",
    "hostId": "f0a417dc44a8d89219f9e626abf5ea433215553697dd7c26a1f2bb2d",
    "lastModifiedBy": "esmunuz",
    "bootSource": {
      "imageName": "sbc-sbg-20181206-131925-668118ccad605100313bd283ef9cf6924f87a22b"
    },
    "vmhdName": "CM-vSBG-4-4-1",
    "availabilityZone": "FI14",
    "createTs": "2018-12-10T07:36:31Z",
    "updateTs": "2018-12-10T07:37:01Z",
    "srt": {
      "name": "CM-vSBG-4-4-1"
    },
    "vdc": {
      "id": "525542e0-a9e6-4aca-904d-fcf982021ddb",
      "name": "ebs3-cee-fi14"
    },
    "vapp": {
      "id": "6fe86fab-ca2b-4087-9eb3-b876f50d4afb",
      "name": "FI14-vSBG-230-cee_bsp-1210-1",
      "provisioningStatus": "ACTIVE",
      "isLocked": false,
      "sourceType": "VNF Package 2"
    },
    "id": "997e52e6-b839-434b-8f16-2e4b1ad6a1b1",
    "name": "fi14-vsbg_PL-1",
    "provisioningStatus": "ACTIVE",
    "tenantName": "fi-14",
    "operationalStatus": "ACTIVE"
  }, {
    "createReqNumber": "175339",
    "vimZone": {
      "name": "EBS3-CEE",
      "type": "CEE"
    },
    "vimObjectId": "33fac18c-a026-4577-9fa0-fd33568c8427",
    "hostId": "db7b59b122d865a261492b06436e0c0fd48e34baf43edc829ecd31b3",
    "lastModifiedBy": "esmunuz",
    "bootSource": {
      "imageName": "sbc-sbg-20181206-131925-668118ccad605100313bd283ef9cf6924f87a22b"
    },
    "vmhdName": "CM-vSBG-4-4-1",
    "availabilityZone": "FI14",
    "createTs": "2018-12-10T07:36:31Z",
    "updateTs": "2018-12-10T07:37:09Z",
    "srt": {
      "name": "CM-vSBG-4-4-1"
    },
    "vdc": {
      "id": "525542e0-a9e6-4aca-904d-fcf982021ddb",
      "name": "ebs3-cee-fi14"
    },
    "vapp": {
      "id": "6fe86fab-ca2b-4087-9eb3-b876f50d4afb",
      "name": "FI14-vSBG-230-cee_bsp-1210-1",
      "provisioningStatus": "ACTIVE",
      "isLocked": false,
      "sourceType": "VNF Package 2"
    },
    "id": "1e76ec5d-60d6-4277-81b6-39d70f876cc7",
    "name": "fi14-vsbg_PL-0",
    "provisioningStatus": "ACTIVE",
    "tenantName": "fi-14",
    "operationalStatus": "ACTIVE"
  }, {
    "createReqNumber": "175806",
    "vimZone": {
      "name": "EBS3-CEE",
      "type": "CEE"
    },
    "vimObjectId": "cf787f39-c500-4367-8ce7-b3ae563cff86",
    "hostId": "90b2641156348b9c3ee44aa2024fb877520b01b9641c6a9218e08c83",
    "lastModifiedBy": "esmunuz",
    "bootSource": {
      "imageName": "sbc-sbg-20181206-131925-668118ccad605100313bd283ef9cf6924f87a22b"
    },
  },

```



```

    "vmhdName": "CM-vSBG-4-4-1",
    "availabilityZone": "FI14",
    "createTs": "2018-12-10T07:58:46Z",
    "updateTs": "2018-12-10T07:58:56Z",
    "srt": {
      "name": "CM-vSBG-4-4-1"
    },
    "vdc": {
      "id": "525542e0-a9e6-4aca-904d-fcf982021ddb",
      "name": "ebs3-cee-fi14"
    },
    "vapp": {
      "id": "6fe86fab-ca2b-4087-9eb3-b876f50d4afb",
      "name": "FI14-vSBG-230-cee_bsp-1210-1",
      "provisioningStatus": "ACTIVE",
      "isLocked": false,
      "sourceType": "VNF Package 2"
    },
    "id": "2bd3371e-fa91-4057-8e7e-a6f219a11a65",
    "name": "fi14-vsbg_SC",
    "provisioningStatus": "ACTIVE",
    "tenantName": "fi-14",
    "operationalStatus": "ACTIVE"
  }
}
}
}

```

#### Example 4 Get the Network Resource ID

**GET [http://mrsvhp15-ecm1.lab.fi.eu.ericsson.se:8080/ecm\\_service/v2/vns](http://mrsvhp15-ecm1.lab.fi.eu.ericsson.se:8080/ecm_service/v2/vns)**

```

// From the printout below you need the id belonging to FI14-vMRF-0128-openstack-88220_mrf_interna
1: "id": "f2608724-42e1-419c-b800-9d2babf71b1c",
{
  "status": {
    "reqStatus": "SUCCESS",
    "credentials": "AQIC5wM2LY4SfcwoNbkK5-zTtx644bPdUSm6XaK1MOv27mo.*AAJTSQACMDEAA1NLABM00DUwNDA2M
jQ4NDA0MzI2Mzk5AAJTMQAA*"
  },
  "data": {
    "vns": [{
      "id": "c39cd371-2651-4ff1-80b0-b044367e7bfb",
      "name": "FI14-vMRF-0125-f1e9da4e-cee-122_mrf_internal",
      "vimObjectId": "7968d29e-276a-485c-904e-a5f617970d3e",
      "tenantName": "fi-14",
      "provisioningStatus": "ACTIVE",
      "enabled": true,
      "isExternal": false,
      "category": "L3",
      "vimZone": {
        "name": "EBS3-CEE",
        "type": "CEE",
        "id": "09918217-6993-4430-891d-950f8b7d0064"
      },
      "vlanTransparent": false,
      "segments": [{
        "name": "PrimarySegment",
        "networkType": "vlan",
        "segmentationId": "1331",
        "isPrimary": true,
        "physicalNetworkName": "default"
      }],
      "isShared": false,
      "subnets": [{
        "name": "FI14-vMRF-0125-f1e9da4e-cee-122_mrf_internal_subnet",
        "vimObjectId": "80f52097-00c1-49df-8685-2d55511abbb6",
        "ipAddressRange": "192.168.0.0/24",
        "dhcpEnabled": false,
        "ipVersion": "IPv4",
        "createReqNumber": "241433",
        "gatewayIpAddress": "192.168.0.1",
        "allocationPools": [{
          "start": "192.168.0.2",
          "end": "192.168.0.254"
        }],
      }],
    }],
  }
}

```





```

    "id": "ede21bd2-5af8-4028-9a5b-e160efalc3ee",
    "provisioningStatus": "ACTIVE"
  },
  "vdc": {
    "id": "525542e0-a9e6-4aca-904d-fcf982021ddb",
    "name": "ebs3-cee-fi14"
  }
}, {
  "id": "14fd3eff-e63c-4f88-bc6a-b240124e53b6",
  "name": "ECM-Net-ext",
  "vimObjectId": "dc4baacd-6287-4a15-9641-95a3fb5372bf",
  "tenantName": "fi-14",
  "provisioningStatus": "ACTIVE",
  "enabled": true,
  "isExternal": false,
  "category": "L3",
  "vimZone": {
    "name": "EBS2",
    "type": "OPENSTACK",
    "id": "4383c86c-ea31-4dd7-9ea4-5674432bddd"
  },
  "vlanTransparent": false,
  "segments": [{
    "name": "Primary Segment",
    "networkType": "vlan",
    "segmentationId": "375",
    "isPrimary": true,
    "physicalNetworkName": "physnet2"
  }],
  "isShared": false,
  "subnets": [{
    "name": "ECM-Net-ext-sub-ipv6",
    "vimObjectId": "76720e0d-de43-44ec-8283-8e2d217b6dcc",
    "ipAddressRange": "fe80::/64",
    "dhcpEnabled": true,
    "ipVersion": "IPv6",
    "createReqNumber": "241920",
    "gatewayIpAddress": "fe80::1",
    "ipv6RaMode": "dhcpv6-stateful",
    "ipv6RaSource": "internal",
    "allocationPools": [{
      "start": "fe80::2",
      "end": "fe80::ffff:ffff:ffff:ffff"
    }],
    "id": "46006540-2cc6-4073-ac65-b1097109e1a6",
    "provisioningStatus": "ACTIVE"
  }],
  "name": "ECM-Net-ext-sub",
  "vimObjectId": "b35bd222-d4d0-4e5f-bdad-c32c02ab5cdd",
  "ipAddressRange": "10.125.250.0/24",
  "dhcpEnabled": true,
  "ipVersion": "IPv4",
  "createReqNumber": "241920",
  "gatewayIpAddress": "10.125.250.1",
  "allocationPools": [{
    "start": "10.125.250.2",
    "end": "10.125.250.254"
  }],
  "id": "cf8e2fac-c024-464a-829c-8af23d74dd12",
  "provisioningStatus": "ACTIVE"
},
  "vdc": {
    "id": "dca9076f-185c-4888-bac7-a9ccebbcb836",
    "name": "ebs2-mirantis"
  }
}, {
  "id": "f2608724-42e1-419c-b800-9d2babf71b1c",
  "name": "FI14-vMRF-0128-openstack-88220_mrf_internal",
  "vimObjectId": "0ac7185a-9709-459b-b079-ef8cafe41ab0",
  "tenantName": "fi-14",
  "provisioningStatus": "ACTIVE",
  "enabled": true,
  "isExternal": false,
  "category": "L3",
  "vimZone": {
    "name": "EBS2",
    "type": "OPENSTACK",
    "id": "4383c86c-ea31-4dd7-9ea4-5674432bddd"
  },
  "vlanTransparent": false,

```



```
"segments": [{
  "name": "PrimarySegment",
  "networkType": "vlan",
  "segmentationId": "372",
  "isPrimary": true,
  "physicalNetworkName": "physnet2"
}],
"isShared": false,
"subnets": [{
  "name": "FI14-vMRF-0128-openstack-88220_mrf_internal_subnet",
  "vimObjectId": "dc366298-2f4b-4956-9674-46fable9c642",
  "ipAddressRange": "192.168.0.0/24",
  "dhcpEnabled": false,
  "ipVersion": "IPv4",
  "createReqNumber": "242528",
  "gatewayIpAddress": "192.168.0.1",
  "allocationPools": [{
    "start": "192.168.0.2",
    "end": "192.168.0.254"
  }],
  "id": "50700217-e318-4e2b-9c04-078566e96df6",
  "provisioningStatus": "ACTIVE"
}],
"vdc": {
  "id": "dca9076f-185c-4888-bac7-a9ccebcbcb836",
  "name": "ebs2-mirantis"
}
}, {
  "id": "2a5cd8ba-1ba7-4678-88e6-6fea6f293b74",
  "name": "FI14-vBGF-7c363b21-cee_red_trunkports-1204-9_bgf_internal",
  "vimObjectId": "165e6a16-a587-47a3-95d6-f52feed10e27",
  "tenantName": "fi-14",
  "provisioningStatus": "ACTIVE",
  "enabled": true,
  "isExternal": false,
  "category": "L3",
  "vimZone": {
    "name": "EBS3-CEE",
    "type": "CEE",
    "id": "09918217-6993-4430-891d-950f8b7d0064"
  },
  "vlanTransparent": false,
  "segments": [{
    "name": "PrimarySegment",
    "networkType": "vlan",
    "segmentationId": "1002",
    "isPrimary": true,
    "physicalNetworkName": "default"
  }],
  "isShared": false,
  "subnets": [{
    "name": "FI14-vBGF-7c363b21-cee_red_trunkports-1204-9_bgf_internal_subnet",
    "vimObjectId": "f7105d5a-74bd-4359-bad3-df2fa0b92911",
    "ipAddressRange": "192.168.0.0/24",
    "dhcpEnabled": false,
    "ipVersion": "IPv4",
    "createReqNumber": "151194",
    "gatewayIpAddress": "192.168.0.1",
    "allocationPools": [{
      "start": "192.168.0.2",
      "end": "192.168.0.254"
    }],
    "id": "7e8cd39a-ff36-478d-a1a1-311d7683db08",
    "provisioningStatus": "ACTIVE"
  }],
  "vdc": {
    "id": "525542e0-a9e6-4aca-904d-fcf982021ddb",
    "name": "ebs3-cee-fi14"
  }
}, {
  "id": "14ad9383-dd95-4beb-a5de-a8427b124854",
  "name": "FI14-vBGF-7c363b21-cee_red_trunkports-1204-9-red_internal",
  "vimObjectId": "ef3eff86-925b-4966-b75a-9f5b79917c73",
  "tenantName": "fi-14",
  "provisioningStatus": "ACTIVE",
  "enabled": true,
  "isExternal": false,
  "category": "L3",
  "vimZone": {
    "name": "EBS3-CEE",
```



```

    "type": "CEE",
    "id": "09918217-6993-4430-891d-950f8b7d0064"
  },
  "vlanTransparent": false,
  "segments": [{
    "name": "PrimarySegment",
    "networkType": "vlan",
    "segmentationId": "1150",
    "isPrimary": true,
    "physicalNetworkName": "default"
  }],
  "isShared": false,
  "subnets": [{
    "name": "FI14-vBGF-7c363b21-cee_red_trunkports-1204-9-red_subnet",
    "vimObjectId": "39eab37d-17f5-4384-a7c2-2109d97f62e1",
    "ipAddressRange": "10.5.0.0/24",
    "dhcpEnabled": false,
    "ipVersion": "IPv4",
    "createReqNumber": "151194",
    "gatewayIpAddress": "10.5.0.1",
    "allocationPools": [{
      "start": "10.5.0.2",
      "end": "10.5.0.100"
    }],
    "id": "eae0d26d-f4df-4f1b-91a1-0a3f62247f5a",
    "provisioningStatus": "ACTIVE"
  }],
  "vdc": {
    "id": "525542e0-a9e6-4aca-904d-fcf982021ddb",
    "name": "ebs3-cee-fi14"
  }
}, {
  "id": "bf0df2c4-9b1c-47ea-9418-6e308fe8d4fe",
  "name": "FI14-vBGF-7c363b21-cee-1205-2_bgf_internal",
  "vimObjectId": "d8571799-8b73-4deb-a525-4508cf053b9c",
  "tenantName": "fi-14",
  "provisioningStatus": "ACTIVE",
  "enabled": true,
  "isExternal": false,
  "category": "L3",
  "vimZone": {
    "name": "EBS3-CEE",
    "type": "CEE",
    "id": "09918217-6993-4430-891d-950f8b7d0064"
  }
},
  "vlanTransparent": false,
  "segments": [{
    "name": "PrimarySegment",
    "networkType": "vlan",
    "segmentationId": "1342",
    "isPrimary": true,
    "physicalNetworkName": "default"
  }],
  "isShared": false,
  "subnets": [{
    "name": "FI14-vBGF-7c363b21-cee-1205-2_bgf_internal_subnet",
    "vimObjectId": "3aba7c4f-e85b-4497-bfa7-95b4d9e7ad75",
    "ipAddressRange": "192.168.0.0/24",
    "dhcpEnabled": false,
    "ipVersion": "IPv4",
    "createReqNumber": "154664",
    "gatewayIpAddress": "192.168.0.1",
    "allocationPools": [{
      "start": "192.168.0.2",
      "end": "192.168.0.254"
    }],
    "id": "0eda3088-46b6-407b-bcad-997427b43095",
    "provisioningStatus": "ACTIVE"
  }],
  "vdc": {
    "id": "525542e0-a9e6-4aca-904d-fcf982021ddb",
    "name": "ebs3-cee-fi14"
  }
}, {
  "id": "bfc6701f-3398-495f-a697-6bf2932bf592",
  "name": "fi14-vsbg-fi14-int_sp-1207-7",
  "vimObjectId": "7835af45-65ba-4c94-86e0-0bcf9b787d5d",
  "tenantName": "fi-14",
  "provisioningStatus": "ACTIVE",
  "enabled": true,

```



```
"isExternal": false,
"category": "L3",
"vimZone": {
  "name": "EBS3-CEE",
  "type": "CEE",
  "id": "09918217-6993-4430-891d-950f8b7d0064"
},
"vlanTransparent": false,
"segments": [{
  "name": "PrimarySegment",
  "networkType": "vlan",
  "segmentationId": "1394",
  "isPrimary": true,
  "physicalNetworkName": "default"
}],
"isShared": false,
"subnets": [{
  "name": "fi14-vsbg_fi14-int_sp-1207-7_subnet_ipv4",
  "vimObjectId": "cbc6a938-4841-47ec-a6d6-bc240642912f",
  "ipAddressRange": "192.168.0.0/27",
  "dhcpEnabled": false,
  "ipVersion": "IPv4",
  "createReqNumber": "172573",
  "allocationPools": [{
    "start": "192.168.0.1",
    "end": "192.168.0.30"
  }],
  "id": "f7e10ed5-68ec-4a7e-b7c9-34dbdc8b5930",
  "provisioningStatus": "ACTIVE"
}],
"vdc": {
  "id": "525542e0-a9e6-4aca-904d-fcf982021ddb",
  "name": "ebs3-cee-fi14"
}
}, {
  "id": "366731a1-dcd5-4c25-9871-cf7426a8d7ab",
  "name": "fi14-vsbg_fi14-int_sp-1207-8",
  "vimObjectId": "2b8c5c7c-2f9b-4d86-952c-84d564e7d3cf",
  "tenantName": "fi-14",
  "provisioningStatus": "ACTIVE",
  "enabled": true,
  "isExternal": false,
  "category": "L3",
  "vimZone": {
    "name": "EBS3-CEE",
    "type": "CEE",
    "id": "09918217-6993-4430-891d-950f8b7d0064"
  },
  "vlanTransparent": false,
  "segments": [{
    "name": "PrimarySegment",
    "networkType": "vlan",
    "segmentationId": "1001",
    "isPrimary": true,
    "physicalNetworkName": "default"
  }],
  "isShared": false,
  "subnets": [{
    "name": "fi14-vsbg_fi14-int_sp-1207-8_subnet_ipv4",
    "vimObjectId": "7a4c6eac-c481-41ff-b2a9-9f9f5749e59c",
    "ipAddressRange": "192.168.0.0/27",
    "dhcpEnabled": false,
    "ipVersion": "IPv4",
    "createReqNumber": "173317",
    "allocationPools": [{
      "start": "192.168.0.1",
      "end": "192.168.0.30"
    }],
    "id": "5419d8ad-c7a8-46f5-902d-0595f2e389d7",
    "provisioningStatus": "ACTIVE"
  }],
  "vdc": {
    "id": "525542e0-a9e6-4aca-904d-fcf982021ddb",
    "name": "ebs3-cee-fi14"
  }
}
}, {
  "id": "84ef310f-dd04-47e3-8ca8-cbfbeafa009c",
  "name": "fi14-vsbg_fi14-int_sp-1207-9",
  "vimObjectId": "7de63772-8841-4bec-b5b5-2955a4bcb084",
  "tenantName": "fi-14",
```



```

    "provisioningStatus": "ACTIVE",
    "enabled": true,
    "isExternal": false,
    "category": "L3",
    "vimZone": {
      "name": "EBS3-CEE",
      "type": "CEE",
      "id": "09918217-6993-4430-891d-950f8b7d0064"
    },
    "vlanTransparent": false,
    "segments": [{
      "name": "PrimarySegment",
      "networkType": "vlan",
      "segmentationId": "1145",
      "isPrimary": true,
      "physicalNetworkName": "default"
    }],
    "isShared": false,
    "subnets": [{
      "name": "fi14-vsbg_fi14-int_sp-1207-9_subnet_ipv4",
      "vimObjectId": "8bc0922e-373d-4d45-ad09-dde6a57c1520",
      "ipAddressRange": "192.168.0.0/27",
      "dhcpEnabled": false,
      "ipVersion": "IPv4",
      "createReqNumber": "173893",
      "allocationPools": [{
        "start": "192.168.0.1",
        "end": "192.168.0.30"
      }],
      "id": "9eed1c1c-a9db-463f-ad1d-e2f7f50c3753",
      "provisioningStatus": "ACTIVE"
    }],
    "vdc": {
      "id": "525542e0-a9e6-4aca-904d-fcf982021ddb",
      "name": "ebs3-cee-fi14"
    }
  }, {
    "id": "599ad9b8-3a63-4af5-a020-b5b883aef8bd",
    "name": "fi14-vsbg_fi14-int_sp",
    "vimObjectId": "41528cb8-0f34-41a3-8cb1-7ddf4a044875",
    "tenantName": "fi-14",
    "provisioningStatus": "ACTIVE",
    "enabled": true,
    "isExternal": false,
    "category": "L3",
    "vimZone": {
      "name": "EBS3-CEE",
      "type": "CEE",
      "id": "09918217-6993-4430-891d-950f8b7d0064"
    },
    "vlanTransparent": false,
    "segments": [{
      "name": "PrimarySegment",
      "networkType": "vlan",
      "segmentationId": "1377",
      "isPrimary": true,
      "physicalNetworkName": "default"
    }],
    "isShared": false,
    "subnets": [{
      "name": "fi14-vsbg_fi14-int_sp_subnet_ipv4",
      "vimObjectId": "4fd18350-c3bf-4ddb-b061-284d456996e3",
      "ipAddressRange": "192.168.0.0/27",
      "dhcpEnabled": false,
      "ipVersion": "IPv4",
      "createReqNumber": "175339",
      "allocationPools": [{
        "start": "192.168.0.1",
        "end": "192.168.0.30"
      }],
      "id": "55f3149a-30ae-4c74-a5d1-92676e141eeb",
      "provisioningStatus": "ACTIVE"
    }],
    "vdc": {
      "id": "525542e0-a9e6-4aca-904d-fcf982021ddb",
      "name": "ebs3-cee-fi14"
    }
  }, {
    "id": "0fe2d8f5-7885-4e17-99b2-3d5513f1f5cd",
    "name": "fi14-vsbg_fi14-int_sp-1210-2",

```



```
"vimObjectId": "0528a014-8b4e-4a51-a466-aadfae1c93c0",
"tenantName": "fi-14",
"provisioningStatus": "ACTIVE",
"enabled": true,
"isExternal": false,
"category": "L3",
"vimZone": {
  "name": "EBS3-CEE",
  "type": "CEE",
  "id": "09918217-6993-4430-891d-950f8b7d0064"
},
"vlanTransparent": false,
"segments": [{
  "name": "PrimarySegment",
  "networkType": "vlan",
  "segmentationId": "1150",
  "isPrimary": true,
  "physicalNetworkName": "default"
}],
"isShared": false,
"subnets": [{
  "name": "fi14-vsbg-fi14-int_sp-1210-2_subnet_ipv4",
  "vimObjectId": "b782c282-f245-43fb-9cf0-8496f9dc8573",
  "ipAddressRange": "192.168.0.0/27",
  "dhcpEnabled": false,
  "ipVersion": "IPv4",
  "createReqNumber": "177747",
  "allocationPools": [{
    "start": "192.168.0.1",
    "end": "192.168.0.30"
  }],
  "id": "6cb45f77-28cf-45b1-abc1-0d3a5143022b",
  "provisioningStatus": "ACTIVE"
}],
"vdc": {
  "id": "525542e0-a9e6-4aca-904d-fcf982021ddb",
  "name": "ebs3-cee-fi14"
}
}, {
  "id": "8599bba5-6971-49a7-9303-faec886b798",
  "name": "fi14-vsbg-vims-1415-1_int_sp",
  "vimObjectId": "c9a7298b-900e-4a23-96ae-619a6b74d26c",
  "tenantName": "fi-14",
  "provisioningStatus": "ACTIVE",
  "enabled": true,
  "isExternal": false,
  "category": "L3",
  "vimZone": {
    "name": "EBS3-CEE",
    "type": "CEE",
    "id": "09918217-6993-4430-891d-950f8b7d0064"
  },
  "vlanTransparent": false,
  "segments": [{
    "name": "PrimarySegment",
    "networkType": "vlan",
    "segmentationId": "1060",
    "isPrimary": true,
    "physicalNetworkName": "default"
  }],
  "isShared": false,
  "subnets": [{
    "name": "fi14-vsbg-vims-1415-1_int_sp_subnet_ipv4",
    "vimObjectId": "61ec9c16-8f90-4966-9809-4df3b9f9ac48",
    "ipAddressRange": "192.168.0.0/27",
    "dhcpEnabled": false,
    "ipVersion": "IPv4",
    "createReqNumber": "182560",
    "allocationPools": [{
      "start": "192.168.0.1",
      "end": "192.168.0.30"
    }],
    "id": "096fba4b-ec0b-4c51-a67f-9b545d9fa736",
    "provisioningStatus": "ACTIVE"
  }],
  "vdc": {
    "id": "525542e0-a9e6-4aca-904d-fcf982021ddb",
    "name": "ebs3-cee-fi14"
  }
}
}]
```



```
} }
```

### Example 5 Get the Storage Resource ID

**GET [http://mrsvhp15-ecm1.lab.fi.eu.ericsson.se:8080/ecm\\_service/bsvs](http://mrsvhp15-ecm1.lab.fi.eu.ericsson.se:8080/ecm_service/bsvs)**

```
// From the printout below you need the id belonging to FI14-vMRF-0128-openstack-88220-0: "id": "e2cbe058-b18f-4285-8d4e-26d2ac1e14a2" →
{
  "status": {
    "reqStatus": "SUCCESS",
    "credentials": "AQIC5wM2LY4SfcxJTh0QkUSum_uHnw4rJq4eAlIrVodufLw.*AAJTSQACMDEAA1NLABM4NDQxMzQ5NDY0NDM3MjU5NDI2AAJTMQAA*" →
  },
  "data": {
    "bsvs": [{
      "diskSize": "6",
      "vimObjectId": "8f6c3ce2-c10b-48d9-9ad3-97fa0bc5afc9",
      "vimZone": {
        "name": "EBS2",
        "type": "OPENSTACK"
      },
      "imageSource": "vmrf-20190128-103550-cb966a9bca44021dac550e7ac071ff580855cc6b",
      "isBootSource": false,
      "isSnapshot": false,
      "availabilityZone": "nova",
      "vdc": {
        "id": "dca9076f-185c-4888-bac7-a9ccebcb836",
        "name": "ebs2-mirantis"
      },
      "id": "e2cbe058-b18f-4285-8d4e-26d2ac1e14a2",
      "name": "FI14-vMRF-0128-openstack-88220-0",
      "provisioningStatus": "ACTIVE",
      "tenantName": "fi-14"
    }
  ]
}
```