



Installing Cisco VIM through Cisco VIM Unified Management

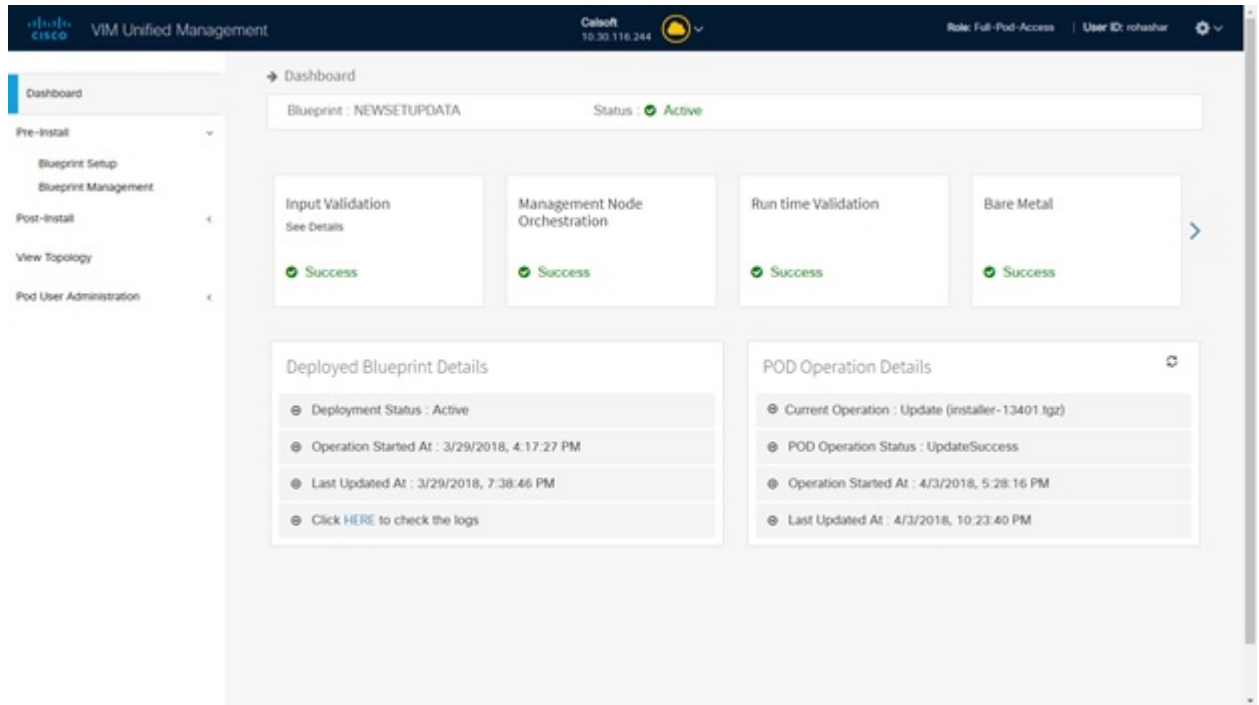
The VIM UM has an UI admin, who has the privilege to manage the UI offering. The Insight UI admin, has the rights to add the right users as Pod administrators. Post bootstrap, the URL for the UI will be: https://br_api:9000.

The following topics helps you to install and configure Cisco Virtual Infrastructure Manager with VIM Insight:

- [Unified Management Dashboard, on page 1](#)
- [Pods, on page 2](#)
- [Pod Administrator, on page 4](#)
- [Unified Management \(UM\) Administrator, on page 5](#)
- [Registering New Pod to Insight , on page 6](#)
- [Configuring OpenStack Installation, on page 6](#)
- [Post Installation Features for Active Blueprint, on page 93](#)

Unified Management Dashboard

When you login as UM admin, you will be redirected to the UM admin Dashboard.



The UM dashboard displays the following information about the pods it is currently managing:

Pod Status

- Active - Number of Pods which has health status OK (Example: Mgmt Node health of the pod is good).
- Inactive - Number of Pods whose health status is not good (Example: Mgmt Node health of the pod is not good).
- Total number of Pods - Number of Pods registered in the system.

Pod Users

- Total – Total number of users registered who are associated with at-least one Pod.
- Registered – Number of users who have completed the registration process and are associated with at-least one Pod.
- Active – Number of Online users who are associated with at-least one Pod.

You can see the list of Pod with its Pod name, description, IP address, location, Pod status along with the Total users and Active users of each pod. You can search for a Pod using Name, IP and location in the search option.

If you click **Get health of current nodes icon (spin)** it does the health check of the Pod.

Pods

Pods allows you to check the health status (indicated through green and red dot) of the pod respectively.

To fetch the latest health status, click **Refresh** which is at the upper right corner.

- Green dot – Pod is reachable and health is good.
- Red dot – Pod is not reachable.

Pod Users

The Pod Users page, gives you the details associated the pod, status (Online or Offline) and their Roles.

UM admin has the right to manage all Pod users in the system. The user with UM admin access can manage the following actions:

- Revoke User's permission from a specific Pod.
- Delete User from the system.

User Name	Email	IP Address	Role Name	Online	Action
Rohan R	rohashar@cisco.com	10.30.116.244	Full-Pod-Access	Online	
Rohan R	rohashar@cisco.com	172.28.123.204	Full-Pod-Access	Offline	
Rohan R	rohashar@cisco.com	10.30.117.238	Full-Pod-Access	Offline	
Rohan R	rohashar@cisco.com	10.23.229.228	Full-Pod-Access	Offline	

Revoking User

UM admin revokes the user's permission from a Pod by clicking **(undo)** icon. If the user is the only user with a Full-Pod-Access role for that particular Pod, then the revoke operation is not permitted. In this case, another user is granted with a Full-Pod-Access role for that Pod and then proceeds with revoking the old user.



Note If the user is revoked from the last associated Pod, then the user is deleted from the system.

Deleting Users

UM admin can delete any user from the system by clicking **X** from an Action column. The delete operation is not permitted if the user has Full-Pod-Access. In, such case another user is granted with *Full-Pod-Access* role for that Pod and then proceed with deleting the old user. UM admin must revoke respective permission first and then proceed further.

Pod Administrator

Pod admins are the users who has the permission to register new Pods in the system. UM admin can add any number of Pod admins in the system.

Adding Pod Admin

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- Step 1** Log in as **UI Admin** and navigate to POD Administrator page.
- Step 2** Click **Add Pod Administrator** .
- Step 3** Enter the Email ID of the user.
- If email is already registered, then Username gets populated automatically.
 - If not registered, an email is sent to the user email ID.
- Step 4** Select User auth for the new user. This option is enabled only if Ldap mode is true.
- If email is already registered, then Username gets populated automatically.
 - If not registered, an email is sent to the user email ID with the verification token. If User auth is set as LDAP, no verification token email is sent.
- Step 5** Navigate to `https://br_api :9000`.
- Step 6** Enter the Email ID and the Password of the Pod Admin and click **Login as Pod User**, it redirects to the landing page. Now the Pod admin can register a new Pod.
-

Revoking Pod Admin

UM admin can revoke Pod admin's permission anytime. To revoke Pod admin permission for the user, click **undo** icon.



Note You cannot revoke self permission.

Unified Management (UM) Administrator

UM admins have the access to the UM profile. Only a UM admin can add another UM admin in the system. There should be at least one UM admin in the system.

The screenshot shows the 'UM Administrators' page in the Cisco VIM Unified Management interface. The page header includes the Cisco logo and 'VIM Unified Management' on the left, and 'User ID: rohashar' on the right. A sidebar on the left contains navigation links: Dashboard, PODS, POD Users, POD Administrators, and UM Administrators (which is highlighted). The main content area is titled 'UM Administrators' and features a table with the following data:

User Name	Email	Online	Action
Rohan R	rohashar@cisco.com	Online	

Below the table, there are pagination controls showing '1' items per page. In the top right corner of the main area, there are buttons for 'Refresh' and 'Add UM Administrator', along with a timestamp: 'Record last updated at: 04/04/2016, 16:18:48'.

Adding UM Admin

To add a UM admin perform the following steps.

-
- Step 1** Log in as **UI Admin** and navigate to UM Administrator page.
 - Step 2** Click **Add UM Administrator**.
 - Step 3** Enter the Email ID of the user.
 - Step 4** Select User auth for the new user. This option is enabled only if Ldap mode is true.
 - If email is already registered, then Username gets populated automatically.
 - If email is not registered, an email is sent to the user email ID with the verification token. If User auth is set as LDAP, no verification token email is sent.
 - Step 5** Navigate to `https://br_api: 9000`.
 - Step 6** Enter the Email ID and the Password of the UM Admin and click **Log in as UM admin** it will redirect to UM dashboard.
-

Revoking UM Admin

UM admin can revoke another UM admin's permission. To revoke UM Admin permission for any user, click **undo** icon.



-
- Note** You cannot revoke a self's permission. You can revoke a user if the user is not associated with any pod. After, revoking the user is deleted from the system.
-

Registering New Pod to Insight

Following are the steps that are required for UI Admin to register a Pod Admin:

Before you begin

UI Admin has to register a Pod Admin to allow the user to access a pod.

- Step 1** Log in as **UM Administrator**, you will be redirected to UM Admin section.
- Step 2** Navigate to Pod Administrator and click **Add Pod Admin**.
- Step 3** Enter the Email ID and the Password of the Pod Admin and click **Login as Pod User**, it will redirect to landing page.
- Step 4** Click **Add New Pod** to register a Pod. Add New Pod popup window appears on the screen.

- Step 5** Enter the Add New Pod field values, and click **Browse** to browse the Root CA certificate and **Upload** it.
- Step 6** Click **Register** to start the Pod registration process starts.

The newly created Pod appears on the Landing Page.

Configuring OpenStack Installation

Before you begin

You need to create a Blueprint (B or C Series) to initiate OpenStack Installation through the VIM.

Step 1 In the navigation pane, choose **Pre-Install > Blueprint Setup**.

Step 2 To create a **B Series Blueprint**:

1. On the **Blueprint Initial Setup** pane of the Cisco VIM Insight, complete the following fields:

Name	Description
Blueprint Name field	Enter blueprint configuration name.
Platform Type drop-down list	Choose one of the following platform types: <ul style="list-style-type: none"> • B-Series (By default) choose B series for this section. • C-Series
Tenant Network drop-down list	Choose one of the following tenant network types: <ul style="list-style-type: none"> • Linuxbridge/VXLAN • OVS/VLAN
Pod Type drop-down list	Choose one of the following pod types: <ul style="list-style-type: none"> • Fullon(By Default)

Name	Description
Ceph Mode drop-down list	Choose one of the following Ceph types: <ul style="list-style-type: none"> • Dedicated • Central (By Default) - Not supported in Production
Optional Features and Services Checkbox	Swiftstack, LDAP, Syslog Export Settings, Install Mode, ToR Switch Information, TLS, NFVMON, Pod Name, VMTP, NFV Bench, Auto-backup, Heat, Keystone v3, Enable Esc Priv, Enable TTY logging, SNMP, ManagementNode_CloudAPI_Reachability. If any one is selected, the corresponding section is visible in various Blueprint sections. SNMP requires CVIMMON to be enabled. By default, all features are disabled except Auto-backup and Management Node_CloudAPI_Reachability.
Import Existing YAML file	Click Browse button to import the existing yaml file. If you have an existing B Series YAML file you can use this feature to upload the file. Unified Management automatically fill in the fields and if any mandatory field is missed then it gets highlighted in the respective section.

- Click **Physical Setup** to navigate to the **Registry Setup** configuration page. Fill in the following details for Registry Setup:

Name	Description
Registry User Name text field	Enter the User-Name for Registry (Mandatory).
Registry Password text field	Enter the Password for Registry (Mandatory).
Registry Email text field	Enter the Email ID for Registry (Mandatory).

Once all mandatory fields are filled the **Validation Check Registry Pane** shows a Green Tick.

3. Click **UCSM Common Tab** and complete the following fields:

The screenshot shows the 'Create Blueprint configuration' page in Cisco VIM Unified Management. The 'UCSM Common' step is active, and the form contains the following fields:

- User name**: Disabled field with value 'admin'.
- Password**: Text field with value 'password'.
- UCSM IP**: Text field with value 'UCSM IP'.
- Resource Prefix**: Text field with value 'Resource Prefix'.
- QOS Policy Type**: Dropdown menu with value 'NFVI'.
- Max VF Count**: Text field with value '20'.
- Enable VF Performance**: Optional checkbox.
- Enable Prov FI PIN**: Optional checkbox.

Buttons: Save Form, Offline Validation, Clear.

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Cisco VIM Unified Management Version: 3.2.2

Name	Description
User name disabled field	By default the value is Admin.
Password text field	Enter Password for UCSM Common (Mandatory).
UCSM IP text field	Enter IP Address for UCSM Common (Mandatory).
Resource Prefix text field	Enter the resource prefix(Mandatory).
QOS Policy Type drop-down	Choose one of the following types: <ul style="list-style-type: none"> • NFVI (Default) • Media
Max VF Count text field	Select the Max VF Count. <1-54> Maximum VF count 54, default is 20. If VF performance is enabled we recommend you to keep MAX_VF_COUNT to 20 else may fail on some VICs like 1240.
Enable VF Performance optional checkbox	Default is false. Set to true to apply adaptor policy at VF level.
Enable Prov FI PIN optional checkbox	Default is false.

Name	Description
MRAID-CARD optional checkbox	Enables JBOD mode to be set on disks. Applicable only if you have RAID controller configured on Storage C240 Rack servers.
Enable UCSM Plugin optional checkbox	Visible when Tenant Network type is OVS/VLAN.
Enable QoS Policy optional checkbox	Visible only when UCSM Plugin is enabled. If UCSM Plugin is disabled then this option is set to False.
Enable QOS for Port Profile optional checkbox	Visible only when UCSM Plugin is enabled.
SRIOV Multi VLAN Trunk optional grid	Visible when UCSM Plugin is enabled. Enter the values for network and vlans ranges. Grid can handle all CRUD operations such as Add, Delete, Edit and, Multiple Delete.

4. Click **Networking** to advance to the networking section of the Blueprint:

The screenshot shows the 'Create Blueprint configuration' wizard in the Cisco VIM Unified Management interface. The 'Networking' step is selected, and the following configuration options are visible:

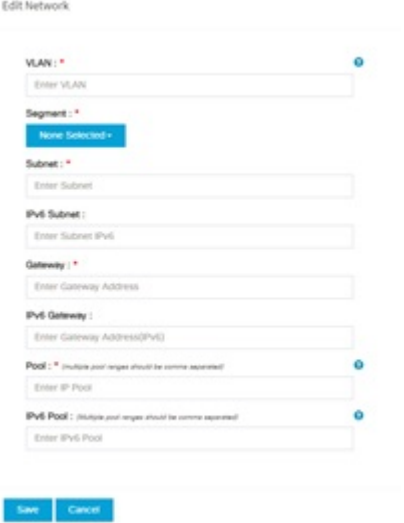
- Domain Name:** A text input field for entering the domain name.
- HTTP Proxy:** A text input field for entering the HTTP proxy.
- HTTPS Proxy:** A text input field for entering the HTTPS proxy.
- IP Tables on Management Pods:** A table with columns for IP Address and Action.
- NTP Server:** A table with columns for NTP server and Action.
- Domain Name Server:** A table with columns for DNS server and Action.
- Networks:** A table with columns for Vlan, Segment, Subnet, Subnet IPv6, Gateway, Gateway IPv6, Pool, and Pool IPv6. The table contains several rows of network configurations.

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Cisco VIM Unified Management Version: 2.2.2

Name	Description
Domain Name field	Enter the domain name (Mandatory).

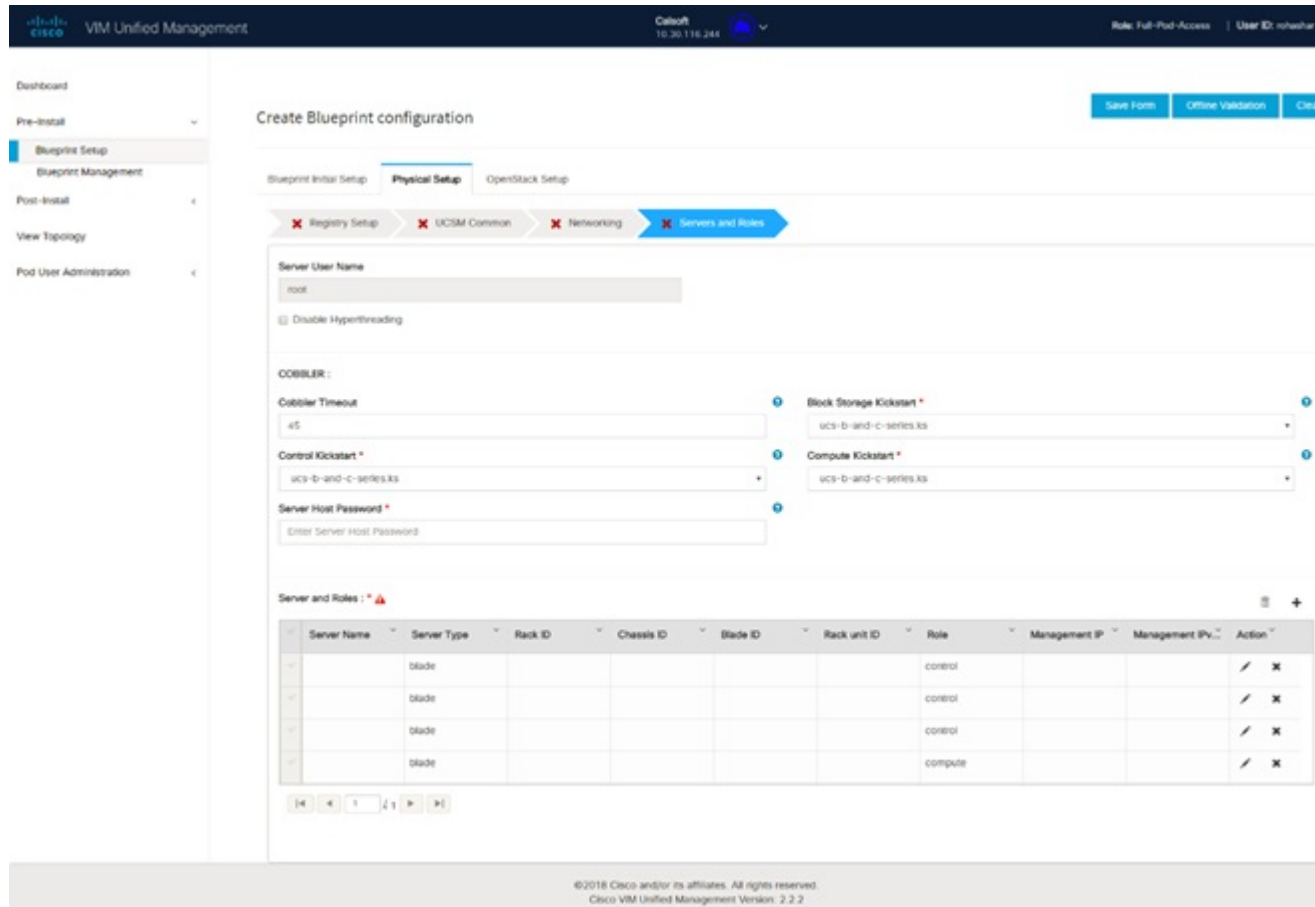
Name	Description
HTTP Proxy Server field	If your configuration uses an HTTP proxy server, enter the IP address of the server.
HTTPS Proxy Server field	If your configuration uses an HTTPS proxy server, enter the IP address of the server.
IP Tables on Management Pods	Specifies the list of IP Address with Mask.
NTP Server	Enter a maximum of four and minimum of one IPv4 and /or IPv6 addresses in the table.
Domain Name Server	Enter a maximum of three and minimum of one IPv4 and/or IPv6 addresses.

Name	Description
Network table	

Name	Description						
	<p>Network table is pre-populated with segments. To add Networks you can either clear all the table using Delete All or click Edit icon for each segment and fill in the details.</p> <p>You can add, edit, or delete network information in the table:</p>  <ul style="list-style-type: none"> • Click + to enter new entries (networks) to the table. • Specify the following fields in the Edit Entry to Networks dialog box. 						
	<table border="1"> <thead> <tr> <th data-bbox="938 1230 1230 1266">Name</th> <th data-bbox="1239 1230 1520 1266">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="938 1270 1230 1434">VLAN field</td> <td data-bbox="1239 1270 1520 1434">Enter the VLAN ID. For Segment - Provider, the VLAN ID value is always <i>none</i>.</td> </tr> <tr> <td data-bbox="938 1438 1230 1858">Segment drop-down list</td> <td data-bbox="1239 1438 1520 1858">You can select any one segment from the drop-down list. <ul style="list-style-type: none"> • API • Management/Provision • Tenant • CIMC • Storage • External </td> </tr> </tbody> </table>	Name	Description	VLAN field	Enter the VLAN ID. For Segment - Provider, the VLAN ID value is always <i>none</i> .	Segment drop-down list	You can select any one segment from the drop-down list. <ul style="list-style-type: none"> • API • Management/Provision • Tenant • CIMC • Storage • External
Name	Description						
VLAN field	Enter the VLAN ID. For Segment - Provider, the VLAN ID value is always <i>none</i> .						
Segment drop-down list	You can select any one segment from the drop-down list. <ul style="list-style-type: none"> • API • Management/Provision • Tenant • CIMC • Storage • External 						

Name	Description	
	Name	Description
		<ul style="list-style-type: none"> • Provider (optional) <p>Note Some segments do not need some of the values listed in the preceding points.</p>
	Subnet field	Enter the IPv4 address for the subnet.
	IPv6 Subnet field	Enter IPv6 address. This field is available only for Management provision and API.
	Gateway field	Enter the IPv4 address for the Gateway.
	IPv6 Gateway field	Enter IPv6 gateway. This field is available only for Management provision and API network.
	Pool field	Enter the pool information in the following format. For example: 10.30.1.1 or 10.30.1.1 to 10.30.1.12
	IPv6 Pool field	Enter the pool information in the following format. For example: 10.1.15-10.1.1.10,102.15-102.1.10 This field is only available for the Mgmt/Provision.
Click Save .		

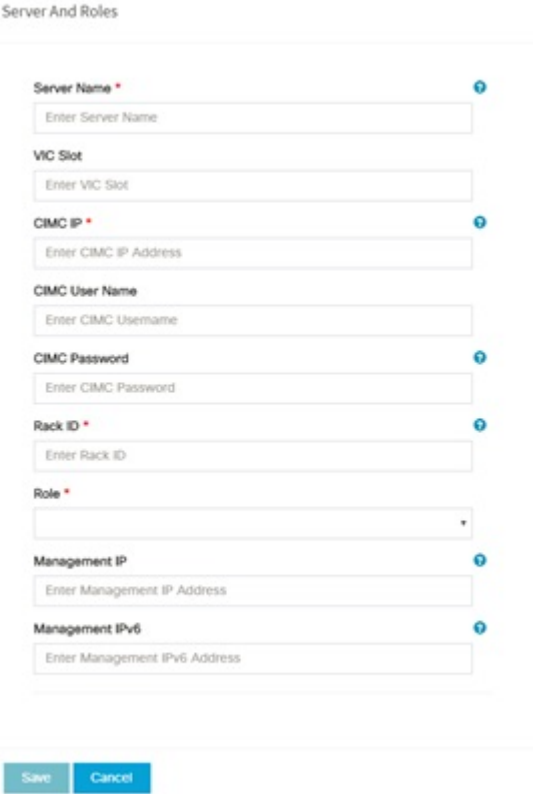
5. On the **Servers and Roles** page of the Cisco VIM Suite wizard, you see a pre-populated table filled with Roles: Control, Compute and Block Storage (Only if CEPH Dedicated is selected in Blueprint Initial Setup).



Name	Description
Server User Name field	Enter the username of the server.
Disable Hyperthreading	Default value is false. You can set it as true or false.

Name	Description																
Cobbler	Enter the Cobbler details in the following fields:																
	<table border="1"> <thead> <tr> <th data-bbox="891 338 1192 388">Name</th> <th data-bbox="1192 338 1485 388">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="891 388 1192 653">Cobbler Timeout field</td> <td data-bbox="1192 388 1485 653">The default value is 45 min. This is an optional parameter. Timeout is displayed in minutes, and its value ranges from 30 to 120.</td> </tr> <tr> <td data-bbox="891 653 1192 743">Block Storage Kickstart field</td> <td data-bbox="1192 653 1485 743">Kickstart file for Storage Node.</td> </tr> <tr> <td data-bbox="891 743 1192 957">Admin Password Hash field</td> <td data-bbox="1192 743 1485 957">Enter the Admin Password. Password must be Alphanumeric. Password should contain minimum 8 characters and maximum of 32 characters.</td> </tr> <tr> <td data-bbox="891 957 1192 1079">Cobbler Username field</td> <td data-bbox="1192 957 1485 1079">Enter the cobbler username to access the cobbler server.</td> </tr> <tr> <td data-bbox="891 1079 1192 1169">Control Kickstart field</td> <td data-bbox="1192 1079 1485 1169">Kickstart file for Control Node.</td> </tr> <tr> <td data-bbox="891 1169 1192 1260">Compute Kickstart field</td> <td data-bbox="1192 1169 1485 1260">Kickstart file for Compute Node.</td> </tr> <tr> <td data-bbox="891 1260 1192 1348">Cobbler Admin Username field</td> <td data-bbox="1192 1260 1485 1348">Enter the admin username of the Cobbler.</td> </tr> </tbody> </table>	Name	Description	Cobbler Timeout field	The default value is 45 min. This is an optional parameter. Timeout is displayed in minutes, and its value ranges from 30 to 120.	Block Storage Kickstart field	Kickstart file for Storage Node.	Admin Password Hash field	Enter the Admin Password. Password must be Alphanumeric. Password should contain minimum 8 characters and maximum of 32 characters.	Cobbler Username field	Enter the cobbler username to access the cobbler server.	Control Kickstart field	Kickstart file for Control Node.	Compute Kickstart field	Kickstart file for Compute Node.	Cobbler Admin Username field	Enter the admin username of the Cobbler.
	Name	Description															
	Cobbler Timeout field	The default value is 45 min. This is an optional parameter. Timeout is displayed in minutes, and its value ranges from 30 to 120.															
	Block Storage Kickstart field	Kickstart file for Storage Node.															
	Admin Password Hash field	Enter the Admin Password. Password must be Alphanumeric. Password should contain minimum 8 characters and maximum of 32 characters.															
	Cobbler Username field	Enter the cobbler username to access the cobbler server.															
	Control Kickstart field	Kickstart file for Control Node.															
Compute Kickstart field	Kickstart file for Compute Node.																
Cobbler Admin Username field	Enter the admin username of the Cobbler.																

Name	Description
Add Entry to Servers and Roles	

Name	Description		
	<p>Click Edit or + to add a new server and role to the table.</p> <p>Server And Roles</p> 		
	<table border="1"> <tr> <td data-bbox="898 1171 1190 1218">Server Name</td> <td data-bbox="1190 1171 1479 1218">Enter a server name.</td> </tr> </table>	Server Name	Enter a server name.
Server Name	Enter a server name.		
	<table border="1"> <tr> <td data-bbox="898 1230 1190 1308">Server Type drop-down list</td> <td data-bbox="1190 1230 1479 1308">Choose Blade or Rack from the drop-down list.</td> </tr> </table>	Server Type drop-down list	Choose Blade or Rack from the drop-down list.
Server Type drop-down list	Choose Blade or Rack from the drop-down list.		
	<table border="1"> <tr> <td data-bbox="898 1320 1190 1367">Rack ID</td> <td data-bbox="1190 1320 1479 1367">The Rack ID for the server.</td> </tr> </table>	Rack ID	The Rack ID for the server.
Rack ID	The Rack ID for the server.		
	<table border="1"> <tr> <td data-bbox="898 1377 1190 1423">Chassis ID</td> <td data-bbox="1190 1377 1479 1423">Enter a Chassis ID.</td> </tr> </table>	Chassis ID	Enter a Chassis ID.
Chassis ID	Enter a Chassis ID.		
	<table border="1"> <tr> <td data-bbox="898 1434 1190 1541">If Rack is chosen, the Rack Unit ID field is displayed.</td> <td data-bbox="1190 1434 1479 1541">Enter a Rack Unit ID.</td> </tr> </table>	If Rack is chosen, the Rack Unit ID field is displayed.	Enter a Rack Unit ID.
If Rack is chosen, the Rack Unit ID field is displayed.	Enter a Rack Unit ID.		
	<table border="1"> <tr> <td data-bbox="898 1554 1190 1661">If Blade is chosen, the Blade ID field is displayed.</td> <td data-bbox="1190 1554 1479 1661">Enter a Blade ID.</td> </tr> </table>	If Blade is chosen, the Blade ID field is displayed.	Enter a Blade ID.
If Blade is chosen, the Blade ID field is displayed.	Enter a Blade ID.		
	<table border="1"> <tr> <td data-bbox="898 1673 1190 1816">Select the Role from the drop-down list.</td> <td data-bbox="1190 1673 1479 1816">If Server type is Blade then select Control and Compute. If server is Rack then select Block Storage.</td> </tr> </table>	Select the Role from the drop-down list.	If Server type is Blade then select Control and Compute . If server is Rack then select Block Storage .
Select the Role from the drop-down list.	If Server type is Blade then select Control and Compute . If server is Rack then select Block Storage .		
	<table border="1"> <tr> <td data-bbox="898 1829 1190 1866">Management IP</td> <td data-bbox="1190 1829 1479 1866">It is an optional field but if</td> </tr> </table>	Management IP	It is an optional field but if
Management IP	It is an optional field but if		

Name	Description
	provided for one server then it is mandatory to provide details for other Servers as well.
	Management IPv6 Enter the Management IPv6 Address.
	Click Save .

6. Click **ToR Switch** checkbox in **Blueprint Initial Setup** to enable the **TOR SWITCH** configuration page. It is an **Optional** section in Blueprint Setup, but when all the fields are filled it is a part of the Blueprint.

The screenshot shows the 'Create Blueprint configuration' page in the Cisco VIM Unified Management interface. The 'Physical Setup' tab is selected, and the 'ToR Switch' checkbox is checked. The 'Configure ToR' section is expanded, showing a table for 'ToR Switch Information' with columns for Hostname, User Name, Password, SSH IP, SSN Num, VPC Peerlink, VPC Domain, VPC peer a, VPC peer v, BR mgmt po, BR mgmt P, and Action. The table is currently empty.

Name	Description
Configure ToR optional checkbox.	Enabling this checkbox, changes the configure ToR section from false to true.

Name	Description
ToR Switch Information mandatory table.	

Name	Description
	<p>Click (+) to add information for ToR Switch.</p> <p>Switch Details</p> <div style="border: 1px solid #ccc; padding: 10px;"> <p>Hostname * ?</p> <input type="text" value="Enter Switch Hostname"/> <p>Username * ?</p> <input type="text" value="Enter Switch Username"/> <p>Password * ?</p> <input type="text" value="Enter Password"/> <p>SSH-IP * ?</p> <input type="text" value="Enter IP Address"/> <p>SSN Num ?</p> <input type="text" value="Enter SSN Num"/> <p>VPC Peer Keepalive ?</p> <input type="text" value="Enter IP Address"/> <p>VPC Domain ?</p> <input type="text" value="Enter VPC Domain"/> <p>VPC Peer Port Info ?</p> <input type="text" value="Enter VPC Port"/> <p>VPC Peer VLAN Info ?</p> <input type="text" value="Enter VPC VLAN Info"/> <p>BR Management Port Info ?</p> <input type="text" value="Enter BR Port Info"/> <p>BR Management PO Info ?</p> <input type="text" value="Enter BR PO Info"/> <p style="text-align: right;"> <input type="button" value="Save"/> <input type="button" value="Cancel"/> </p> </div>
Name	Description
Hostname	ToR switch hostname.
Username	ToR switch username.
Password	ToR switch password.
SSH IP	ToR switch SSH IP Address.
SSN Num	ToR switch ssn num.
VPC Peer Keepalive	Peer Management IP. You do not define if there is no peer.
VPC Domain	Do not define if peer is absent.

Name	Description	
	VPC Peer Port Info	Interface for vpc peer ports.
	BR Management Port Info	Management interface of the management node.
	BR Management PO Info	Port channel number for management interface of the management node.
	ClickSave.	
On clicking save button, Add ToR Info Connected to Fabric field is visible.	Port Channel field.	Enter the Port Channel input.
	Switch Name field.	Enter the name of the Switch.

7. Click **NFVI Monitoring** checkbox in Blueprint Initial Setup to enable the NFVI Monitoring configuration tab.

The screenshot shows the 'Create Blueprint configuration' page in the Cisco VIM Unified Management interface. The 'NFVI Monitoring' tab is selected, and the 'Collector VME Info' section is visible. The form includes fields for Host Name, Password, COUSER Password, Admin IP, and Management IP. The 'Collector VME Info' section is expanded, showing the following fields:

- Host Name: *
- Password: *
- COUSER Password: *
- Admin IP: *
- Management IP: *

The 'Collector VME Info' section is also expanded, showing the following fields:

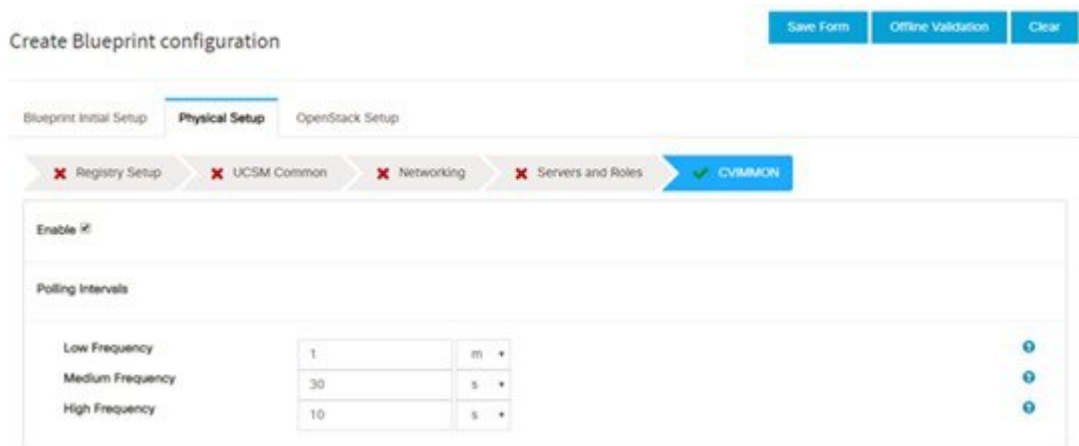
- Host Name: *
- Password: *
- COUSER Password: *
- Admin IP: *
- Management IP: *

The 'Collector Tor Connections' section is also visible, showing a table with columns for Tor Info and Action. The table is currently empty, with a message 'No data available'.

Name	Description
Admin IP	IP Address of Control Center VM
Management VIP	VIP for ceilometer/dispatcher to use, must be unique across VIM Pod
Host Name	Hostname of Collector VM
Password	Password of Collector VM
CCUSER Password	Password of CCUSER

Name	Description				
Admin IP	SSH IP of Collector VM				
Management IP	Management IP of Collector VM				
Collector ToR Connections	<ol style="list-style-type: none"> 1. Click on (+) icon to Add Collector ToR Connections. 2. Select the ToR switches from list to add the information. 3. It is optional and available for ToR type NCS-5500 4. For now, it supports adding only one Collector ToR Connection <div style="border: 1px solid #ccc; padding: 5px; margin: 10px 0;"> <p style="font-size: small; margin: 0;">Add Collector Tor Connections</p> <p style="font-size: x-small; margin: 5px 0;">Select Tor switch for connections</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> <p style="font-size: x-small; margin: 0;">test-torhostname</p> </div> <div style="width: 30%;"> <p style="font-size: x-small; margin: 0;">Port Channel *</p> <p style="font-size: x-small; margin: 0;">Enter port channel</p> </div> <div style="width: 30%;"> <p style="font-size: x-small; margin: 0;">Switch- test-torhostname *</p> <p style="font-size: x-small; margin: 0;">Enter Port Information</p> </div> </div> <div style="display: flex; justify-content: flex-end; margin-top: 5px;"> Save Cancel </div> </div> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td style="width: 60%;">Port Channel</td> <td>Enter port channel.</td> </tr> <tr> <td>Switch - {torSwitch-hostname}</td> <td>Enter port number, E.g:eth1/15.</td> </tr> </table> <p>Click Save</p>	Port Channel	Enter port channel.	Switch - {torSwitch-hostname}	Enter port number, E.g:eth1/15.
Port Channel	Enter port channel.				
Switch - {torSwitch-hostname}	Enter port number, E.g:eth1/15.				
Rabbit MQ User Name	Enter Rabbit MQ username.				

8. Click **CVIMMON** option in Blueprint Initial Setup to enable the CVIMMON configuration tab.



CVIM-MON is a built-in infrastructure monitoring service based on telegraf/prometheus/grafana.

When enabled, the telegraf service will be deployed on every node on the pod to capture infrastructure level stats (CPU, memory, network, containers, and so on) and a Prometheus server will be installed on the management node

to poll for these stats and store them in its time series database. The statistics can then be viewed using the grafana server that is accessible on the management node at port 3000 (password protected).

There are three levels of polling intervals which are used by different telegraf plugins:

- Low frequency interval is used to collect system level metrics like cpu, memory
- Medium frequency interval is used to collect docker metrics
- High frequency interval is used to collect rabbitmq metrics

Defining polling intervals in setup data is optional, if not defined the default values will be used

CVIM-MON is mutually exclusive to NFVIMON

PODNAME is required when CVIM-MON is enabled

Name	Description
Enable	Default is False
Polling Intervals	
Low frequency	<Integer following with time sign (s/m/h)> # min of 1 minute (1m) if not defined defaults to 1m, also it needs to be higher than medium interval.
Medium frequency	<Integer following with time sign (s/m/h)> # min of 30 seconds (30s) if not defined defaults to 30s, also it needs to be higher than high interval.
High frequency	<Integer following with time sign (s/m/h)> # min of 10 seconds (10s) if not defined defaults to 10s.

While CVIMMON checkbox is checked in Blueprint Initial setup, there is a checkbox provided in the CVIMMON tab area for enabling the SNMP feature. When user check this enable SNMP checkbox, Add a Manager button appears in the right area.

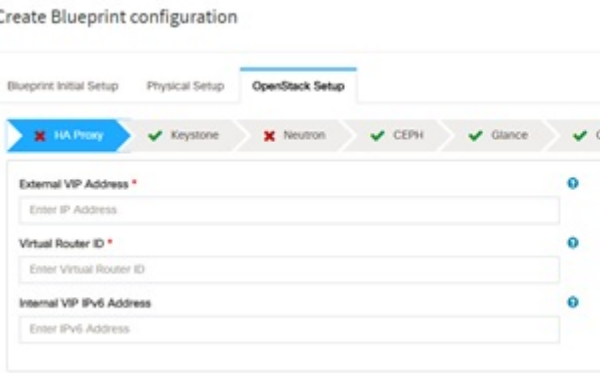
Clicking on this button shows various fields related to that manager. User can add up to three SNMP managers.

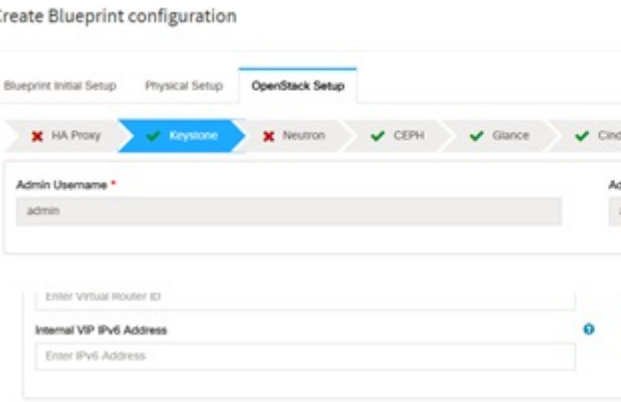
Name	Description
Address	Ipv4 address of the remote SNMP manager, unique across all managers
Port	Port (1-65535) to sent the traps; default 162, unique across all managers
Version	SNMP version of the manager; default 'v2c'
Community	For SNMPv2c. Community name; default 'public'
Engine_Id	For SNMPv3. ContextEngineId, min length of 5, max length of 32, unique across all managers; cannot we all 00s or FFs
Users	List of users; maximum: 3

Name	Description
Name	Username has to be unique across users for the same manager
auth_key	Need to be min of 8 chars
authentication	Authentication protocol; default: 'SHA'
privacy_key	Encryption password; by default uses the same as the authentication
encryption	Encryption protocol ; default: 'AES128'

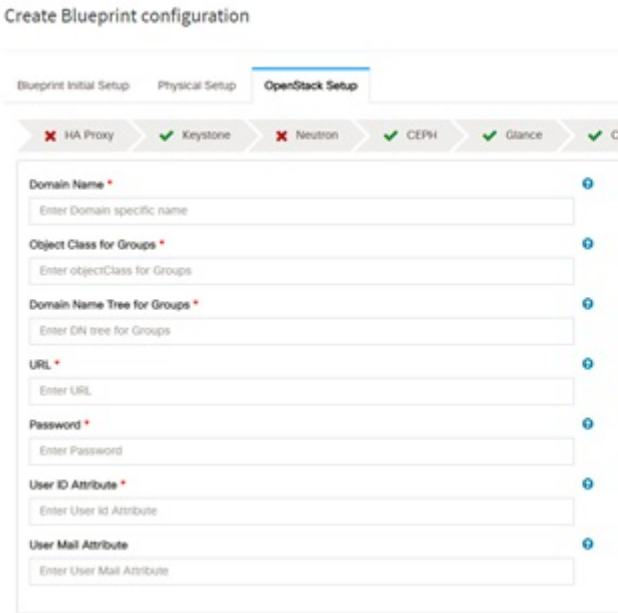
If CVIMMON is enabled and Platform type is C, then an optional feature to get SNMP traps from Cisco CIMC is available in the CVIMMON tab area. With this new feature SERVER_MON, there is a checkbox to enable or disable this feature and an input field to provide host information. User can either add comma separated server information or can have ALL to include all the servers.

9. Click **OpenStack Setup** tab to advance to the OpenStack Setup Configuration page. On the **OpenStack Setup** page of the Cisco VIM Insight wizard, complete the following fields:

Name	Description										
HA Proxy	<p>Fill in the following details:</p>  <table border="1" data-bbox="857 831 1485 1272"> <tbody> <tr> <td data-bbox="857 831 1172 919">External VIP Address field</td> <td data-bbox="1172 831 1485 919">Enter the IP address of the External VIP.</td> </tr> <tr> <td data-bbox="857 919 1172 1008">External VIP Address IPv6 field</td> <td data-bbox="1172 919 1485 1008">Enter the IPv6 address of the External VIP.</td> </tr> <tr> <td data-bbox="857 1008 1172 1096">Virtual Router ID field</td> <td data-bbox="1172 1008 1485 1096">Enter the Router ID for the HA.</td> </tr> <tr> <td data-bbox="857 1096 1172 1184">Internal VIP Address IPv6 field</td> <td data-bbox="1172 1096 1485 1184">Enter the IPv6 address of the Internal IP.</td> </tr> <tr> <td data-bbox="857 1184 1172 1272">Internal VIP Address field</td> <td data-bbox="1172 1184 1485 1272">Enter the IP address of the Internal VIP.</td> </tr> </tbody> </table>	External VIP Address field	Enter the IP address of the External VIP.	External VIP Address IPv6 field	Enter the IPv6 address of the External VIP.	Virtual Router ID field	Enter the Router ID for the HA.	Internal VIP Address IPv6 field	Enter the IPv6 address of the Internal IP.	Internal VIP Address field	Enter the IP address of the Internal VIP.
External VIP Address field	Enter the IP address of the External VIP.										
External VIP Address IPv6 field	Enter the IPv6 address of the External VIP.										
Virtual Router ID field	Enter the Router ID for the HA.										
Internal VIP Address IPv6 field	Enter the IPv6 address of the Internal IP.										
Internal VIP Address field	Enter the IP address of the Internal VIP.										


Name	Description				
<p>Keystone</p>	<p>The following are the Pre-populated field values. This option is always set to be true.</p>  <table border="1" data-bbox="893 850 1534 955"> <tr> <td>Admin Username field</td> <td>admin</td> </tr> <tr> <td>Admin Tenant Name field</td> <td>admin</td> </tr> </table>	Admin Username field	admin	Admin Tenant Name field	admin
Admin Username field	admin				
Admin Tenant Name field	admin				

Name	Description
LDAP (Only if Keystonev3 is enabled) Note This option is only available with Keystone v3	

Name	Description																				
	<p>This is available only when Keystone v3 and LDAP both are enabled under <i>Optional Features and Services</i> in Blueprint Initial Setup.</p>  <table border="1" data-bbox="893 1071 1526 1858"> <tbody> <tr> <td>Domain Name field</td> <td>Enter the Domain name.</td> </tr> <tr> <td>Object Class for Users field</td> <td>Enter a string as input.</td> </tr> <tr> <td>Object Class for Groups field</td> <td>Enter a string.</td> </tr> <tr> <td>Domain Name Tree for Users field</td> <td>Enter a string.</td> </tr> <tr> <td>Domain Name Tree for Groups field</td> <td>Enter a string.</td> </tr> <tr> <td>Suffix for Domain Name field</td> <td>Enter a string.</td> </tr> <tr> <td>URL field</td> <td>Enter a URL with ending port number.</td> </tr> <tr> <td>Domain Name of bind user field</td> <td>Enter a string.</td> </tr> <tr> <td>Password field</td> <td>Enter Password as string format.</td> </tr> <tr> <td>User Filter field</td> <td>Enter filter name as string.</td> </tr> </tbody> </table>	Domain Name field	Enter the Domain name.	Object Class for Users field	Enter a string as input.	Object Class for Groups field	Enter a string.	Domain Name Tree for Users field	Enter a string.	Domain Name Tree for Groups field	Enter a string.	Suffix for Domain Name field	Enter a string.	URL field	Enter a URL with ending port number.	Domain Name of bind user field	Enter a string.	Password field	Enter Password as string format.	User Filter field	Enter filter name as string.
Domain Name field	Enter the Domain name.																				
Object Class for Users field	Enter a string as input.																				
Object Class for Groups field	Enter a string.																				
Domain Name Tree for Users field	Enter a string.																				
Domain Name Tree for Groups field	Enter a string.																				
Suffix for Domain Name field	Enter a string.																				
URL field	Enter a URL with ending port number.																				
Domain Name of bind user field	Enter a string.																				
Password field	Enter Password as string format.																				
User Filter field	Enter filter name as string.																				

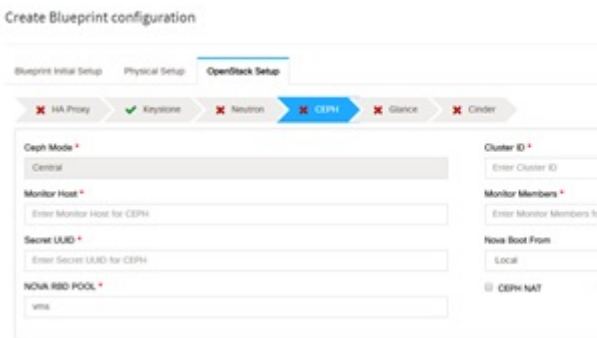
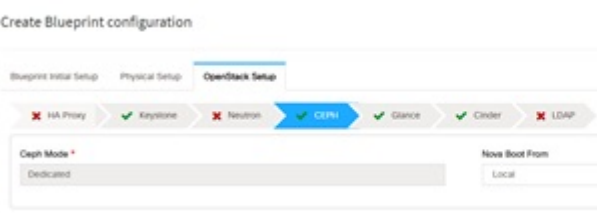
Name	Description	
	User ID Attribute field	Enter a string.
	User Name Attribute field	Enter a string.
	User Mail Attribute field	Enter a string.
	Group Name Attribute field	Enter a string.

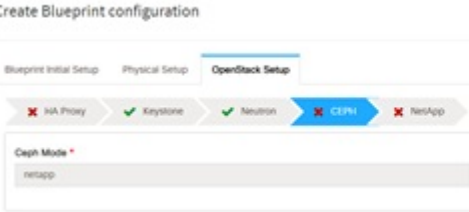
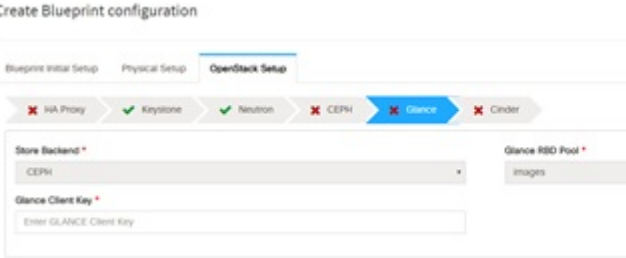
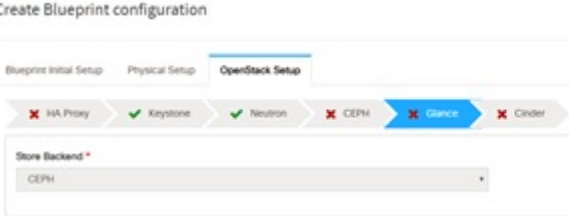
Name	Description
Neutron	

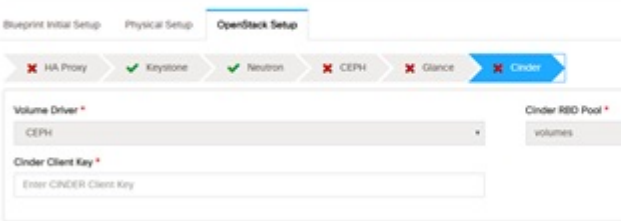
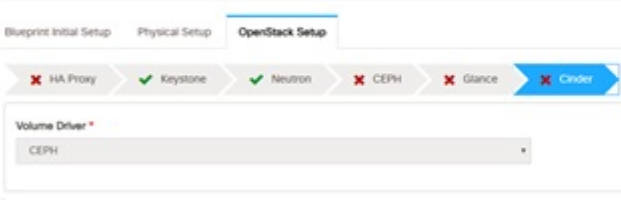
Name	Description
	<p>Neutron fields change on the basis of <i>Tenant Network Type</i> selection from Blueprint Initial Setup. Following are the options available for Neutron for OVS/VLAN:</p>  <p>Tenant Network Type field It is Auto-filled based on the <i>Tenant Network Type</i> selected in the Blueprint Initial Setup page.</p> <p>Mechanism Drivers field It is Auto-filled based on the <i>Tenant Network Type</i> selected in Blueprint Initial Setup page.</p> <p>NFV Hosts field It is Auto-filled with the Compute you added in Server and Roles.</p> <p>If you select All in this section NFV_HOSTS: ALL is added to the Blueprint or you can select one particular compute. For Example:</p> <p>NFV_HOSTS: compute-server-1, compute-server-2.</p> <p>Tenant VLAN Ranges field List of ranges separated by comma form start:end.</p> <p>Provider VLAN Ranges field List of ranges separated by comma form start:end.</p> <p>VM Hugh Page Size (available for NFV_HOSTS option) field 2M or 1G</p>

Name	Description		
	<table border="1"><tr><td data-bbox="893 281 1211 331">Enable Jumbo Frames field</td><td data-bbox="1211 281 1524 331">Enable the checkbox.</td></tr></table> <p>For Tenant Network Type, Linux Bridge everything remains the same but Tenant VLAN Ranges is removed.</p>	Enable Jumbo Frames field	Enable the checkbox.
Enable Jumbo Frames field	Enable the checkbox.		

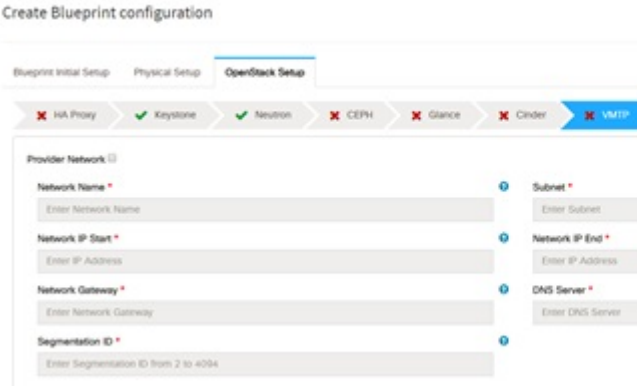

Name	Description
CEPH	

Name	Description																
	<p>1. 1. When Object Storage Backend is selected as <i>Central</i> in the blueprint initial setup.</p>  <table border="1" data-bbox="933 745 1526 1312"> <tr> <td>CEPH Mode</td> <td>By default Ceph Mode is Central.</td> </tr> <tr> <td>Cluster ID</td> <td>Enter the Cluster ID.</td> </tr> <tr> <td>Monitor Host</td> <td>Enter the Monitor Host for CEPH</td> </tr> <tr> <td>Monitor Members</td> <td>Enter the Monitor Members for CEPH</td> </tr> <tr> <td>Secret UUID</td> <td>Enter the Secret UUID for CEPH</td> </tr> <tr> <td>NOVA Boot from</td> <td>You can choose CEPH or local from the drop-down list.</td> </tr> <tr> <td>NOVA RBD POOL</td> <td>Enter the NOVA RBD Pool (default's to vms)</td> </tr> <tr> <td>CEPH NAT</td> <td>CEPH NAT is required for Central Ceph and when mgmt network is not routable.</td> </tr> </table> <p>2. 2. When Object Storage Backend is selected as <i>Dedicated</i> in the blueprint initial setup.</p>  <ul style="list-style-type: none"> • CEPH Mode: By default Dedicated. • NOVA Boot: From drop-down selection you can choose CEPH or local. <p>3. 3. When Object Storage Backend is selected as <i>NetApp</i> in</p>	CEPH Mode	By default Ceph Mode is Central.	Cluster ID	Enter the Cluster ID.	Monitor Host	Enter the Monitor Host for CEPH	Monitor Members	Enter the Monitor Members for CEPH	Secret UUID	Enter the Secret UUID for CEPH	NOVA Boot from	You can choose CEPH or local from the drop-down list.	NOVA RBD POOL	Enter the NOVA RBD Pool (default's to vms)	CEPH NAT	CEPH NAT is required for Central Ceph and when mgmt network is not routable.
CEPH Mode	By default Ceph Mode is Central.																
Cluster ID	Enter the Cluster ID.																
Monitor Host	Enter the Monitor Host for CEPH																
Monitor Members	Enter the Monitor Members for CEPH																
Secret UUID	Enter the Secret UUID for CEPH																
NOVA Boot from	You can choose CEPH or local from the drop-down list.																
NOVA RBD POOL	Enter the NOVA RBD Pool (default's to vms)																
CEPH NAT	CEPH NAT is required for Central Ceph and when mgmt network is not routable.																

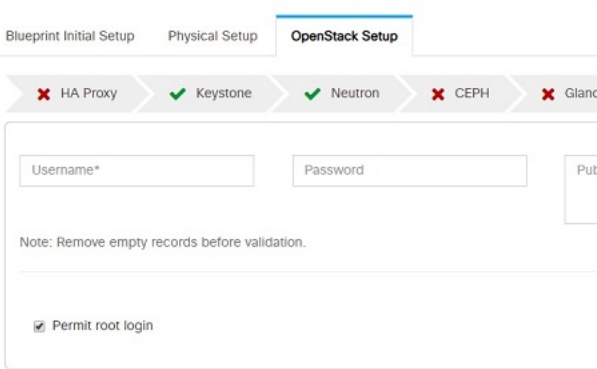
Name	Description						
	<p>the blueprint initial setup.</p> 						
<p>GLANCE</p>	<p>1. When Object Storage Backend is selected as <i>Central</i> in the blueprint initial setup.</p>  <table border="1" data-bbox="857 982 1487 1140"> <tr> <td>Store Backend</td> <td>By default CEPH.</td> </tr> <tr> <td>Glance RBD Pool field</td> <td>By default images.</td> </tr> <tr> <td>Glance Client Key</td> <td>Enter GLANCE Client Key</td> </tr> </table> <p>2. When Object Storage Backend is selected as <i>Dedicated</i> in the blueprint initial setup.</p>  <p>By default Populated for CEPH Dedicated with Store Backend value as CEPH.</p>	Store Backend	By default CEPH.	Glance RBD Pool field	By default images.	Glance Client Key	Enter GLANCE Client Key
Store Backend	By default CEPH.						
Glance RBD Pool field	By default images.						
Glance Client Key	Enter GLANCE Client Key						

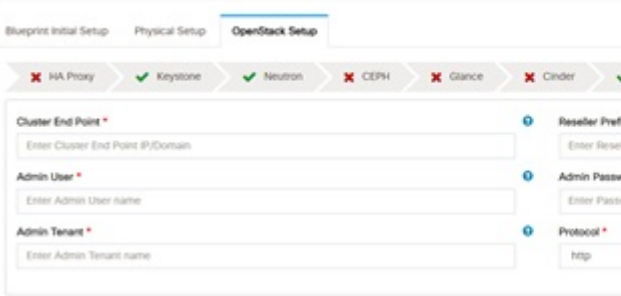
Name	Description						
<p>CINDER</p>	<p>By default Populated for <i>CEPH Dedicated</i> with Volume Driver value as CEPH.</p> <p>Create Blueprint configuration</p>  <table border="1" data-bbox="894 688 1523 842"> <tr> <td>Volume Driver</td> <td>By default CEPH.</td> </tr> <tr> <td>Cinder RBD Pool field</td> <td>By default volumes.</td> </tr> <tr> <td>Cinder Client Key</td> <td>Enter Cinder Client Key</td> </tr> </table> <p>Create Blueprint configuration</p> 	Volume Driver	By default CEPH.	Cinder RBD Pool field	By default volumes.	Cinder Client Key	Enter Cinder Client Key
Volume Driver	By default CEPH.						
Cinder RBD Pool field	By default volumes.						
Cinder Client Key	Enter Cinder Client Key						

Name	Description
VMTP VMTP optional section will only be visible once VMTP is selected from Blueprint Initial Setup.	

Name	Description														
	<p>Check one of the check boxes to specify a VMTP network:</p> <ul style="list-style-type: none"> • Provider Network • External Network <p>For the Provider Network complete the following:</p> <p>Create Blueprint configuration</p>  <table border="1" data-bbox="901 934 1526 1522"> <tr> <td>Network Name field</td> <td>Enter the name for the external network.</td> </tr> <tr> <td>Subnet field</td> <td>Enter the Subnet for Provider Network.</td> </tr> <tr> <td>Network IP Start field</td> <td>Enter the start of the floating IPv4 address.</td> </tr> <tr> <td>Network IP End field</td> <td>Enter the end of the floating IPv4 address.</td> </tr> <tr> <td>Network Gatewayfield</td> <td>Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td>DNS Server field</td> <td>Enter the DNS server IPv4 address.</td> </tr> <tr> <td>Segmentation ID field</td> <td>Enter the segmentation ID.</td> </tr> </table> <p>For External Network fill in the following details:</p> 	Network Name field	Enter the name for the external network.	Subnet field	Enter the Subnet for Provider Network.	Network IP Start field	Enter the start of the floating IPv4 address.	Network IP End field	Enter the end of the floating IPv4 address.	Network Gateway field	Enter the IPv4 address for the Gateway.	DNS Server field	Enter the DNS server IPv4 address.	Segmentation ID field	Enter the segmentation ID.
Network Name field	Enter the name for the external network.														
Subnet field	Enter the Subnet for Provider Network.														
Network IP Start field	Enter the start of the floating IPv4 address.														
Network IP End field	Enter the end of the floating IPv4 address.														
Network Gateway field	Enter the IPv4 address for the Gateway.														
DNS Server field	Enter the DNS server IPv4 address.														
Segmentation ID field	Enter the segmentation ID.														

Name	Description	
	Network Name field	Enter the name for the external network.
	Subnet field	Enter the Subnet for the external Network.
	Network IP Start field	Enter the start of the floating IPv4 address.
	Network IP End field	Enter the endof the floating IPv4 address.
	Network Gateway field	Enter the IPv4 address for the Gateway.
	DNS Server field	Enter the DNS server IPv4 address.
<p>TLS This optional section will only be visible once TLS is selected from Blueprint Initial Setup Page.</p>	<p>TLS has two options:</p> <ul style="list-style-type: none"> • External LB VIP FQDN - -Text field. • External LB VIP TLS True/False. By default this option is false. 	


Name	Description						
<p>Under the OpenStack setup tab, Vim_admins tab will be visible only when Vim_admins is selected from the Optional Features & Services under the Blueprint Initial setup tab</p>	<p>Following are the field descriptions for VIM Admins:</p> <ul style="list-style-type: none"> • Add Username, Password, Public key or both for the non-root login. • At least one Vim Admin must be configured when Permit root login is false. <p>Create Blueprint configuration</p>  <table border="1" data-bbox="894 1052 1523 1381"> <tbody> <tr> <td data-bbox="894 1052 1211 1142">User Name</td> <td data-bbox="1211 1052 1523 1142">Enter username for Vim Admin.</td> </tr> <tr> <td data-bbox="894 1142 1211 1262">Password</td> <td data-bbox="1211 1142 1523 1262">Password field. Admin hash password should always start with \$6.</td> </tr> <tr> <td data-bbox="894 1262 1211 1381">Public Key</td> <td data-bbox="1211 1262 1523 1381">Public key for vim admin should always start with 'ssh-rsa AAAA....'</td> </tr> </tbody> </table>	User Name	Enter username for Vim Admin.	Password	Password field. Admin hash password should always start with \$6.	Public Key	Public key for vim admin should always start with 'ssh-rsa AAAA....'
User Name	Enter username for Vim Admin.						
Password	Password field. Admin hash password should always start with \$6.						
Public Key	Public key for vim admin should always start with 'ssh-rsa AAAA....'						

Name	Description												
<p>SwiftStack optional section will be visible once SwiftStack is selected from Blueprint Initial Setup Page. SwiftStack is only supported with KeyStonev2 . If you select Keystonev3, swiftstack will not be available for configuration.</p>	<p>Following are the options that needs to be filled for SwiftStack:</p> <p>Create Blueprint configuration</p>  <table border="1" data-bbox="857 772 1485 1354"> <tbody> <tr> <td>Cluster End Point field</td> <td>IP address of PAC (Proxy-Account-Container) endpoint.</td> </tr> <tr> <td>Admin User field</td> <td>Admin user for swift to authenticate in keystone.</td> </tr> <tr> <td>Admin Tenant field</td> <td>The service tenant corresponding to the Account-Container used by the Swiftstack.</td> </tr> <tr> <td>Reseller Prefix field</td> <td>Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack. Example: KEY_</td> </tr> <tr> <td>Admin Password field</td> <td>swiftstack_admin_password</td> </tr> <tr> <td>Protocol</td> <td>http or https</td> </tr> </tbody> </table>	Cluster End Point field	IP address of PAC (Proxy-Account-Container) endpoint.	Admin User field	Admin user for swift to authenticate in keystone.	Admin Tenant field	The service tenant corresponding to the Account-Container used by the Swiftstack.	Reseller Prefix field	Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack. Example: KEY_	Admin Password field	swiftstack_admin_password	Protocol	http or https
Cluster End Point field	IP address of PAC (Proxy-Account-Container) endpoint.												
Admin User field	Admin user for swift to authenticate in keystone.												
Admin Tenant field	The service tenant corresponding to the Account-Container used by the Swiftstack.												
Reseller Prefix field	Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack. Example: KEY_												
Admin Password field	swiftstack_admin_password												
Protocol	http or https												

10. For SolidFire, enter the following:

Name	Description
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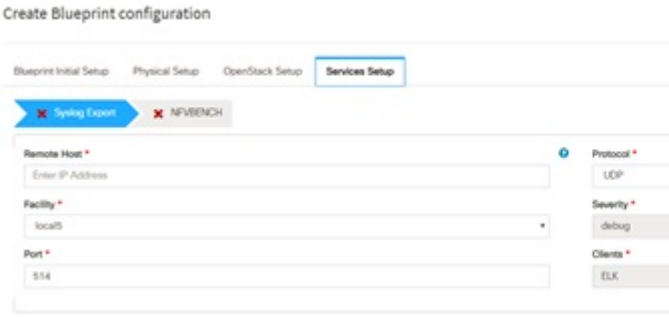
SolidFire is visible for configuration on day0
 SolidFire is not allowed as a day-2 deployment option
 SolidFire is always available with CEPH.

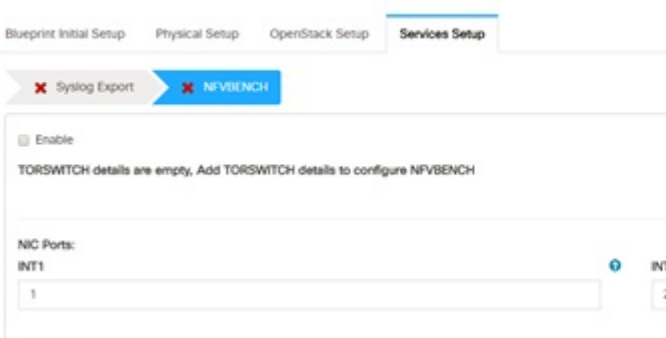


Cluster MVIP field	Management IP of SolidFire cluster.
Cluster SVIP field	Storage VIP of SolidFire cluster.
Admin Username	Admin user on SolidFire cluster
Admin Password	Admin password on SolidFire cluster.

11. If **Syslog Export** or **NFVBENCH** is selected in **Blueprint Initial Setup**, the **Services Setup** pane is enabled for the user to view.

Following are the options under **Services Setup** tab:

Name	Description												
Syslog Export	<p>Following are the options for Syslog Settings:</p>  <table border="1" data-bbox="820 682 1485 1060"> <thead> <tr> <th>Remote Host</th> <td>Enter Syslog IP address.</td> </tr> <tr> <th>Protocol</th> <td>Only UDP is supported.</td> </tr> <tr> <th>Facility</th> <td>Defaults to local5.</td> </tr> <tr> <th>Severity</th> <td>Defaults to debug.</td> </tr> <tr> <th>Clients</th> <td>Defaults to ELK.</td> </tr> <tr> <th>Port</th> <td>Defaults to 514 but can be modified by the User.</td> </tr> </thead></table>	Remote Host	Enter Syslog IP address.	Protocol	Only UDP is supported.	Facility	Defaults to local5.	Severity	Defaults to debug.	Clients	Defaults to ELK.	Port	Defaults to 514 but can be modified by the User.
Remote Host	Enter Syslog IP address.												
Protocol	Only UDP is supported.												
Facility	Defaults to local5.												
Severity	Defaults to debug.												
Clients	Defaults to ELK.												
Port	Defaults to 514 but can be modified by the User.												

Name	Description
NFVBENCH	<p>NFVBENCH enable checkbox which by default is <i>False</i>.</p>  <p>Create Blueprint configuration</p> <p>Blueprint Initial Setup Physical Setup OpenStack Setup Services Setup</p> <p>✖ Syslog Export ✔ NFVBENCH</p> <p><input type="checkbox"/> Enable</p> <p>TORSWITCH details are empty, Add TORSWITCH details to configure NFVBENCH</p> <p>NIC Ports:</p> <p>INT1 <input type="text" value="1"/> INT2 <input type="text" value="2"/></p> <p>Add ToR information connected to switch:</p> <ul style="list-style-type: none"> • Select a TOR Switch and enter the Switch name. • Enter the port number. For example:eth1/5. VTEP VLANS (mandatory and needed only for VXLAN): Enter 2 different VLANs for VLAN1 and VLAN2 • NIC Ports: INT1 and INT2 optional input. Enter the 2 port numbers of the 4-port 10G Intel NIC at the management node used for the NFVBench.
ENABLE_ESC_PRIV	Enable the checkbox to set it as True. By default it is <i>False</i> .

Step 3 To create a C Series Blueprint:

1. On the **Blueprint Initial Setup** page of the Cisco VIM Insight, complete the following fields:

The screenshot shows the 'Create Blueprint configuration' interface in Cisco VIM Unified Management. The 'Blueprint Initial Setup' tab is active, displaying several configuration fields:

- Blueprint Name:** A text input field with a red asterisk.
- Platform Type:** A dropdown menu currently showing 'C-series'.
- Tenant Network:** A dropdown menu currently showing 'LinuxBridge/VXLAN'.
- Object Storage Backend:** A dropdown menu currently showing 'Ceph'.

Below the main fields is a section for 'Optional Features & Services' with a grid of checkboxes:

- Sylog Export Settings
- ES_REMOTE_BACKUP
- NFV Monitoring
- Selftest
- Pod Name
- Vim Admins
- Enable Esc Priv
- Install Mode
- Heat
- MFbench
- SRIOV CARD TYPE
- TOSSwitch Information
- Permit Root Login
- IF Auto Backup
- LDAP
- VMTP
- NETAPP_SUPPORT
- Keystone v3
- TLS

At the bottom, there is an 'Import Existing VIM file' section with a text input field and 'Browse' and 'Load' buttons.

Name	Description
Blueprint Name field.	Enter the name for the blueprint configuration.
Platform Type drop-down list	Choose one of the following platform types: <ul style="list-style-type: none"> • B-Series (By default) • C-Series (Select C Series)
Tenant Network drop-down list	Choose one of the following tenant network types: <ul style="list-style-type: none"> • Linux Bridge/VXLAN • OVS/VLAN • VTS/VLAN • VPP/VLAN • ACI/VLAN <p>Note when VTS/VLAN or ACI/VLAN is selected then respective tabs are available on Blueprint setup. When Mechanism driver OVS or ACI is selected, VM_HUGEPAGE_PERCENTAGE field is enabled for all standalone compute nodes, when NFV_HOSTS is enabled.</p>

Name	Description
Pod Type drop-down list	Choose one of the following pod type : <ul style="list-style-type: none"> • Fullon(By Default) • Micro • UMHC • NGENAHC <p>Note</p> <ul style="list-style-type: none"> • UMHC pod type is only supported for OVS/VLAN tenant type. • NGENAHC is supported for VPP/VLAN tenant type with no SRIOV • Pod type micro is supported for OVS/VLAN, ACI/VLAN,VPP/VLAN.
Ceph Mode drop-down list	Choose one of the following Ceph types: <ul style="list-style-type: none"> • Dedicated (By Default) • Central. Central is not supported in Production
Optional and Services Features checkbox	Swiftstack, LDAP, Syslog Export Settings, Install Mode, TorSwitch Information, TLS, NFVMON, Pod Name, VMTP, NFVBench, Autbackup, Heat, Keystone v3, Enable Esc Priv. <p>If any one is selected, the corresponding section is visible in various Blueprint sections.</p> <p>By default all features are disabled except Auto Backup.</p>
Import Existing YAML file	If you have an existing C Series YAML file you can use this feature to upload the file. <p>Insight will automatically fill in the fields and any missed mandatory field will be highlighted in the respective section.</p>

2. Click **Physical Setup** to advance to the **Registry Setup** configuration page. Fill in the following details for Registry Setup:

The screenshot shows the 'Create Blueprint configuration' page in the Cisco VIM Unified Management interface. The 'Physical Setup' tab is selected, and the 'Registry Setup' step is highlighted with a green arrow. The 'Registry User Name', 'Registry Password', and 'Registry Email' fields are visible and empty.

Name	Description
Registry User Name text field	User-Name for Registry (Mandatory).
Registry Password text field	Password for Registry (Mandatory).
Registry Email text field	Email ID for Registry (Mandatory).

Once all the mandatory fields are filled the **Validation Check Registry Page** will be changed to a Green Tick.

3. Click **CIMC Common Tab** and complete the following fields:

The screenshot shows the 'Create Blueprint configuration' page in the Cisco VIM Unified Management interface. The 'Physical Setup' tab is selected, and the 'CIMC Common' step is highlighted with a green arrow. The 'Username' and 'Password' fields are visible, with 'admin' entered in the 'Username' field.

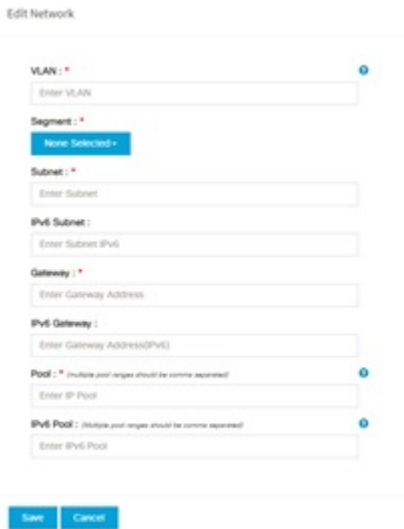
Name	Description
User Name disabled field	By default value is Admin.
Password text field	Enter Password for UCSM Common (Mandatory).

4. Click **Networking** to advance to the networking section of the Blueprint.

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Cisco VIM Unified Management Version: 2.2.2

Name	Description
Domain Name field	Enter the domain name. (Mandatory)
HTTP Proxy Server field	If your configuration uses an HTTP proxy server, enter the IP address of the server.
HTTPS Proxy Server field	If your configuration uses an HTTPS proxy server, enter the IP address of the server.
IP Tables on Management Pods	Specifies the list of IP Address with Mask.
NTP Servers field	Enter a maximum of four and minimum of one IPv4 and/or IPv6 addresses in the table.
Domain Name Servers field	Enter a maximum of three and minimum of one IPv4 and/or IPV6 addresses.

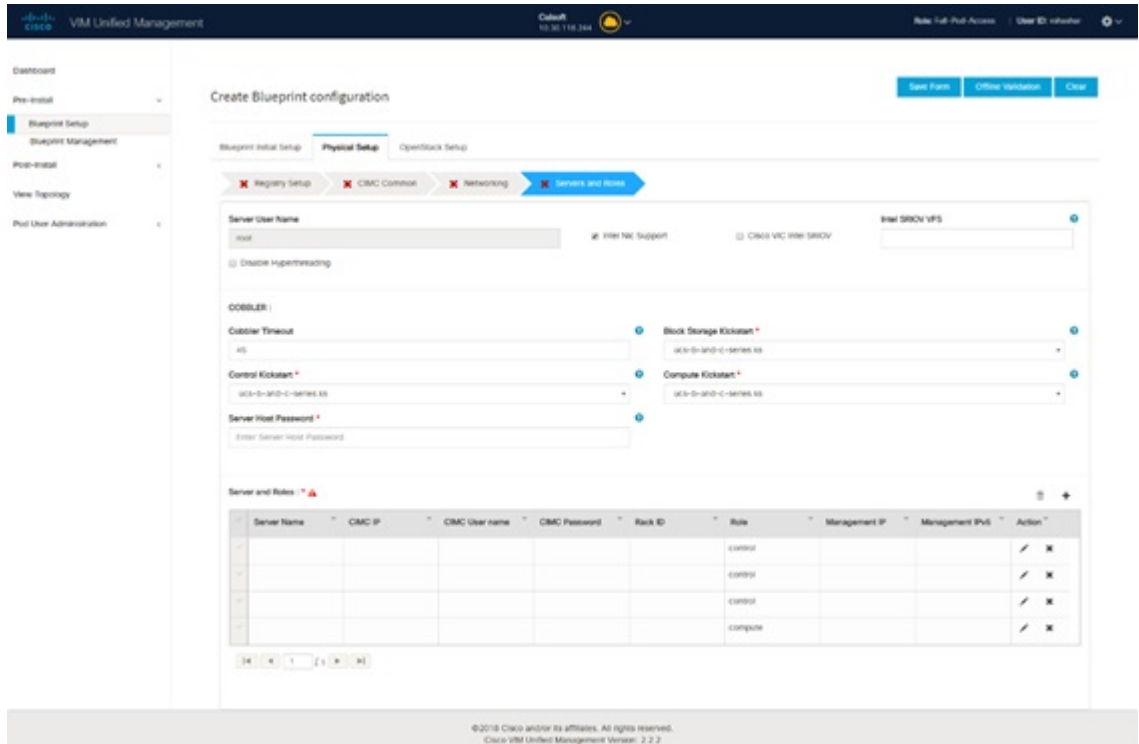
Name	Description
Networks table	

Name	Description						
	<p>Network table is pre-populated with Segments. To add Networks you can either clear all the table with Delete all or click edit icon for each segment and fill in the details.</p> <p>You can add, edit, or delete network information in the table.</p>  <ul style="list-style-type: none"> • Click Add (+) to add new entries (networks) to the table. • Specify the following fields in the Edit Entry to Networks dialog: <table border="1" data-bbox="938 1260 1534 1845"> <thead> <tr> <th data-bbox="938 1260 1230 1312">Name</th> <th data-bbox="1230 1260 1534 1312">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="938 1312 1230 1480">VLAN field</td> <td data-bbox="1230 1312 1534 1480">Enter the VLAN ID. For Segment - Provider, the VLAN ID value is 'none'.</td> </tr> <tr> <td data-bbox="938 1480 1230 1845">Segment drop-down list</td> <td data-bbox="1230 1480 1534 1845">When you add/edit new segment then following segments types are available in the form of dropdown list and you can select only one. <ul style="list-style-type: none"> • API • Management/provision • Tenant </td> </tr> </tbody> </table>	Name	Description	VLAN field	Enter the VLAN ID . For Segment - Provider, the VLAN ID value is 'none'.	Segment drop-down list	When you add/edit new segment then following segments types are available in the form of dropdown list and you can select only one. <ul style="list-style-type: none"> • API • Management/provision • Tenant
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VLAN field	Enter the VLAN ID . For Segment - Provider, the VLAN ID value is 'none'.						
Segment drop-down list	When you add/edit new segment then following segments types are available in the form of dropdown list and you can select only one. <ul style="list-style-type: none"> • API • Management/provision • Tenant 						

Name	Description	
		<ul style="list-style-type: none"> • Storage • External • Provider • ACIINFRA <p>Note Aciiinfra segment is available only when ACI/VLAN tenant type is selected) Depending upon the segment some of the entries below are not needed. Please refer to the example file in openstack-configs dir for details.</p>
	Subnet field	Enter the IPv4 address for the subnet.
	IPv6 Subnet field	Enter IPv6 address. This field will be available only for Management provision and API
	Gateway field	Enter the IPv4 address for the Gateway.
	Gateway IPv6 field	Enter the IPv6 address for the gateway. This will support for API and management provision.
	Pool field	Enter the pool information in the required format, for example: 10.1.15-10.1.1.10,10.2.15-10.2.1.10 This field is available only for the Mgmt/Provision, Storage, and Tenant segments.
	IPv6 Pool field	

Name	Description	
		Enter the pool information in the required format. For example: 10.1.15-10.1.1.10,102.15-102.1.10
	Click Save .	

- On the **Servers and Roles** page of the Cisco VIM Suite wizard, a pre-populated table filled with Roles : Control, Compute and Block Storage (Only if CEPH Dedicated is selected in Blueprint Initial Setup is available).



Note If you choose mechanism driver as OVS or ACI, VM_HUGEPAGE_PERCENTAGE field column is available for compute nodes, where you can fill values from 0 to 100%, when NFV_HOSTS: ALL is chosen. Also, option of NIC Level Redundancy appears only when Intel Nic Support is set to true. This is applicable only in the case of M5 based pods.

Name	Description
Server User Name field	Enter the username of the server.
Disable Hyperthreading	Default value is false. You can set it as true or false.

Name	Description	
Cobbler	Enter the Cobbler details in the following fields:	
	Name	Description
	Cobbler Timeout field	The default value is 45 min. This is an optional parameter. Timeout is displayed in minutes, and its value ranges from 30 to 120.
	Block Storage Kickstart field	Kickstart file for Storage Node.
	Admin Password Hash field	Enter the Admin Password. Password should be Alphanumeric. Password should contain minimum 8 characters and maximum of 32 characters.
	Cobbler Username field	Enter the cobbler username to access the cobbler server.
	Control Kickstart field	Kickstart file for Control Node.
	Compute Kickstart field	Kickstart file for Compute Node.
Cobbler Admin Username field	Enter the admin username of the Cobbler.	

Name	Description
<p data-bbox="326 289 695 321">Add Entry to Servers and Roles</p> <p data-bbox="326 338 867 432">Note when Pod type micro is selected then all the three servers will be associated with control, compute and block storage role.</p> <p data-bbox="326 464 477 495">For Example:</p> <p data-bbox="326 512 394 543">Roles</p> <ul data-bbox="367 560 537 1199" style="list-style-type: none"><li data-bbox="367 560 537 741">• Block Storage<ul data-bbox="418 606 537 741" style="list-style-type: none"><li data-bbox="418 606 537 638">• -Server 1<li data-bbox="418 655 537 686">• -Server 2<li data-bbox="418 703 537 735">• -Server 3 <li data-bbox="367 791 537 972">• Control<ul data-bbox="418 837 537 972" style="list-style-type: none"><li data-bbox="418 837 537 869">• -Server 1<li data-bbox="418 886 537 917">• -Server 2<li data-bbox="418 934 537 966">• -Server 3 <li data-bbox="367 1022 537 1203">• Compute<ul data-bbox="418 1068 537 1203" style="list-style-type: none"><li data-bbox="418 1068 537 1100">• -Server 1<li data-bbox="418 1117 537 1148">• -Server 2<li data-bbox="418 1165 537 1197">• -Server 3 <p data-bbox="326 1253 875 1377">Note When Pod type UMHC is selected then auto ToR configuration is not supported and the ToR info at server and roles level is not allowed to be entered.</p>	

Name	Description																
	<p>Click Edit or + to add a new server and role to the table.</p> <p>If mechanism driver is either OVS or ACI, an additional optional field VM_HUGEPAGE_PERCENTAGE is shown when compute role is chosen; This option is only valid when NFV_HOSTS is set to ALL; If no value is entered then the global value of VM_HUGEPAGE_PERCENTAGE is used.</p> <div data-bbox="868 525 1396 1323"> <p>Server And Roles</p> <p>Server Name * ? <input type="text" value="Enter Server Name"/></p> <p>VIC Slot <input type="text" value="Enter VIC Slot"/></p> <p>CIMC IP * ? <input type="text" value="Enter CIMC IP Address"/></p> <p>CIMC User Name <input type="text" value="Enter CIMC Username"/></p> <p>CIMC Password ? <input type="password" value="Enter CIMC Password"/></p> <p>Rack ID * ? <input type="text" value="Enter Rack ID"/></p> <p>Role * <input type="text" value=""/></p> <p>Management IP ? <input type="text" value="Enter Management IP Address"/></p> <p>Management IPv6 ? <input type="text" value="Enter Management IPv6 Address"/></p> <p><input type="button" value="Save"/> <input type="button" value="Cancel"/></p> </div> <table border="1"> <tr> <td data-bbox="860 1354 1169 1396">Server Name</td> <td data-bbox="1169 1354 1487 1396">Entry the name of the server.</td> </tr> <tr> <td data-bbox="860 1407 1169 1449">Rack ID field</td> <td data-bbox="1169 1407 1487 1449">The rack ID for the server.</td> </tr> <tr> <td data-bbox="860 1459 1169 1501">VIC Slot field</td> <td data-bbox="1169 1459 1487 1501">Enter a VIC Slot.</td> </tr> <tr> <td data-bbox="860 1512 1169 1554">CIMC IP field</td> <td data-bbox="1169 1512 1487 1554">Enter a IP address.</td> </tr> <tr> <td data-bbox="860 1564 1169 1606">CIMC Username field</td> <td data-bbox="1169 1564 1487 1606">Enter a Username.</td> </tr> <tr> <td data-bbox="860 1617 1169 1659">CIMC Password field</td> <td data-bbox="1169 1617 1487 1659">Enter a Password for CIMC.</td> </tr> <tr> <td data-bbox="860 1669 1169 1795">Select the Role from the drop down list</td> <td data-bbox="1169 1669 1487 1795">Choose Control or Compute or Block Storage from the drop-down list.</td> </tr> <tr> <td data-bbox="860 1806 1169 1848">Management IP</td> <td data-bbox="1169 1806 1487 1848">It is an optional field but if</td> </tr> </table>	Server Name	Entry the name of the server.	Rack ID field	The rack ID for the server.	VIC Slot field	Enter a VIC Slot.	CIMC IP field	Enter a IP address.	CIMC Username field	Enter a Username.	CIMC Password field	Enter a Password for CIMC.	Select the Role from the drop down list	Choose Control or Compute or Block Storage from the drop-down list.	Management IP	It is an optional field but if
Server Name	Entry the name of the server.																
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Select the Role from the drop down list	Choose Control or Compute or Block Storage from the drop-down list.																
Management IP	It is an optional field but if																

Name	Description	
		provided for one Server then it is mandatory to provide it for other Servers as well.
	Management IPv6	Routable and valid IPv6 address. It is an optional field but if provided for one server then it is mandatory for all other servers as well.
	BGP speaker addressees	Optional, only when NETWORK_OPTIONS is vxlan network, for controller node only, IP belongs to the vxlan-tenant network but not part of the pool.
Click Save or Add .	On clicking Save or Add all information related to Servers and Roles gets saved.	
If Configure ToR checkbox is True with at-least one switch detail, these fields will be displayed for each server and this is similar to DP Tor: Port Channel and Switch Name (Mandatory if Configure ToR is true)	<ul style="list-style-type: none"> • Port Channel field • Switch Name field • Switch Port Info field 	<ul style="list-style-type: none"> • Enter the port channel input. • Enter the switch name. • Enter the switch port information.
DP ToR (Only for Control and Compute) : Mandatory if Intel NIC and Configure TOR is True.	<ul style="list-style-type: none"> • Port Channel field • Switch Name field • Switch Port Info field 	<ul style="list-style-type: none"> • Enter the port channel input. • Enter the switch name. • Enter the switch port information.
SRIOV TOR INFO (Only for Compute Nodes). It is mandatory in server and roles if Intel NIC and Configure TOR is True. with TOR TYPE Nexus. For TOR TYPE NCS-5500 these fields are optional Switch Name (Mandatory if Configure ToR is true) . This field appears only when Intel NIC support is true, as Auto TOR config is not supported in VIC_NIC combo	<ul style="list-style-type: none"> • Switch Name field • Switch Port Info field 	<ul style="list-style-type: none"> • Enter the switch name. • Enter the switch port information.
Intel SRIOV VFS (valid for Intel NIC testbeds) and can be integer.	For SRIOV support for Intel NIC. By Default, SRIOV support is disabled. To enable, define a value in the range # * 1-32 when INTEL_NIC_SUPPORT is set True (X710 Max VFs = 32) # * 1-63 when CISCO_VIC_INTEL_SRIOV is set True (X520 Max VFs = 63)	

Name	Description
INTEL_SRIOV_PHYS_PORTS (valid for Intel NIC test beds) and can be of value 2 or 4 (default is 2)	In some cases the # of Physical SRIOV port needed is 4; to meet that requirement, define the following: # this is optional, if nothing is defined code will assume it to be 2; the only 2 integer values this parameter # takes is 2 or 4 and is true when INTEL_NIC_SUPPORT is True and INTEL_SRIOV_VFS is valid.. For NCS-5500 this value is set to 4 and is non-editable.
Click Save or Add .	If all mandatory fields are filled click Save or Add to add information on Servers and Roles.
Disable Hyperthreading	Default value is false. You can set it as true or false.
Click Save	

Note Maximum two ToR info needs to be configured for each connection type on each node (control, compute and block_storage node).

Note If pod type UMHC is selected then CISCO_VIC_INTEL_SRIOV is enabled to be TRUE. CISCO_VIC_INTEL_SRIOV is also supported on Micro pod with expanded computes

Note For Tenant type **ACI/VLAN**, port channel for each ToR port will not be available in servers and roles, as APIC will automatically assign port-channel numbers. Also, for ACI in full on mode you can select Intel NIC Support in the “Servers and Roles” section.

- Click **ToR Switch** checkbox in **Blueprint Initial Setup** to enable the **TOR SWITCH** configuration page. It is an **Optional** section in Blueprint Setup but once all the fields are filled in then it will become a part of the Blueprint.

The screenshot shows the Cisco VIM Unified Management interface. The top navigation bar includes the Cisco logo, 'VIM Unified Management', a user profile 'Colin' with ID '10.30.110.244', and a role 'Role: Full-Priv Access' with user ID 'mishra'. The left sidebar contains navigation options: Dashboard, Pre-Install, Blueprint Setup (selected), Blueprint Management, Post-Install, View Topology, and Post User Administration. The main content area is titled 'Create Blueprint configuration' and has three tabs: 'Blueprint Initial Setup', 'Physical Setup' (selected), and 'OpenStack Setup'. Below the tabs is a progress bar with steps: 'Registry Setup', 'CSCC Console', 'Networking', 'Servers and Roles', and 'ToR Switch' (highlighted in blue). The 'ToR Switch' section is titled 'Configure TOR' and contains a table for 'ToR Switch Information'. The table has columns: Hostname, User Name, Password, SSH IP, SSN Num, VPC Peerfile, VPC Domain, VPC peer s..., VPC peer V..., BR mgmt po..., BR mgmt P..., and Action. The table is currently empty. At the bottom of the page, there is a footer: '©2018 Cisco and/or its affiliates. All rights reserved. Cisco VIM Unified Management version: 2.2.2'.

Name	Description
<p data-bbox="326 289 711 321">Configure ToR optional checkbox.</p> <p data-bbox="326 338 792 401">Note If UMHC is selected as podtype, configure TOR is not allowed.</p>	<p data-bbox="834 289 1523 352">Enabling this checkbox, changes the configure ToR section from false to true.</p> <p data-bbox="834 369 1490 432">Note Configure tor is true then ToR switch info maps in servers</p>

Name	Description
ToR Switch Information mandatory table if you want to enter ToR information.	

Name	Description														
	<p>Click (+) to add information for ToR Switch.</p> <p>Switch Details</p> <div style="border: 1px solid #ccc; padding: 10px;"> <p>Hostname * ⓘ</p> <input type="text" value="Enter Switch Hostname"/> <p>Username * ⓘ</p> <input type="text" value="Enter Switch Username"/> <p>Password * ⓘ</p> <input type="text" value="Enter Password"/> <p>SSH-IP * ⓘ</p> <input type="text" value="Enter IP Address"/> <p>SSN Num ⓘ</p> <input type="text" value="Enter SSN Num"/> <p>VPC Peer Keepalive ⓘ</p> <input type="text" value="Enter IP Address"/> <p>VPC Domain ⓘ</p> <input type="text" value="Enter VPC Domain"/> <p>VPC Peer Port Info ⓘ</p> <input type="text" value="Enter VPC Port"/> <p>VPC Peer VLAN Info ⓘ</p> <input type="text" value="Enter VPC VLAN Info"/> <p>BR Management Port Info ⓘ</p> <input type="text" value="Enter BR Port Info"/> <p>BR Management PO Info ⓘ</p> <input type="text" value="Enter BR PO Info"/> <p style="text-align: right;"> <input type="button" value="Save"/> <input type="button" value="Cancel"/> </p> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th data-bbox="846 1373 1183 1428">Name</th> <th data-bbox="1183 1373 1515 1428">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="846 1428 1183 1482">Name</td> <td data-bbox="1183 1428 1515 1482">ToR switch name.</td> </tr> <tr> <td data-bbox="846 1482 1183 1537">Username</td> <td data-bbox="1183 1482 1515 1537">ToR switch username.</td> </tr> <tr> <td data-bbox="846 1537 1183 1591">Password</td> <td data-bbox="1183 1537 1515 1591">ToR switch password.</td> </tr> <tr> <td data-bbox="846 1591 1183 1646">SSH IP</td> <td data-bbox="1183 1591 1515 1646">ToR switch SSH IP.</td> </tr> <tr> <td data-bbox="846 1646 1183 1701">SSN Num</td> <td data-bbox="1183 1646 1515 1701">ToR switch ssn num.</td> </tr> <tr> <td data-bbox="846 1701 1183 1843">VPC Peer Keepalive</td> <td data-bbox="1183 1701 1515 1843">Peer Management IP. You cannot define if there is no peer.</td> </tr> </tbody> </table>	Name	Description	Name	ToR switch name.	Username	ToR switch username.	Password	ToR switch password.	SSH IP	ToR switch SSH IP.	SSN Num	ToR switch ssn num.	VPC Peer Keepalive	Peer Management IP. You cannot define if there is no peer.
Name	Description														
Name	ToR switch name.														
Username	ToR switch username.														
Password	ToR switch password.														
SSH IP	ToR switch SSH IP.														
SSN Num	ToR switch ssn num.														
VPC Peer Keepalive	Peer Management IP. You cannot define if there is no peer.														

Name	Description	
	VPC Domain	Cannot define if there is no peer.
	VPC Peer Port Info	Interface for vpc peer ports.
	VPC Peer VLAN Info	VLAN ids for vpc peer ports (optional).
	BR Management Port Info	Management interface of build node.
	BR Management PO Info	Port channel number for management interface of build node.
	BR Management VLAN info	VLAN ID for management interface of build node (access).
Splitter Optic 4x10	For C Series platform type, Tenant Type is VPP/VLAN and Pod Type is either fullon or Micro, an additional choice will be provided to select the TOR Type. If selected TOR type is NCS-5500, then user can configure splitter cable parameters.	
Click Save .		

Note When tenant type ACI/VLAN is selected, the TOR switch information table differs and is mandatory.

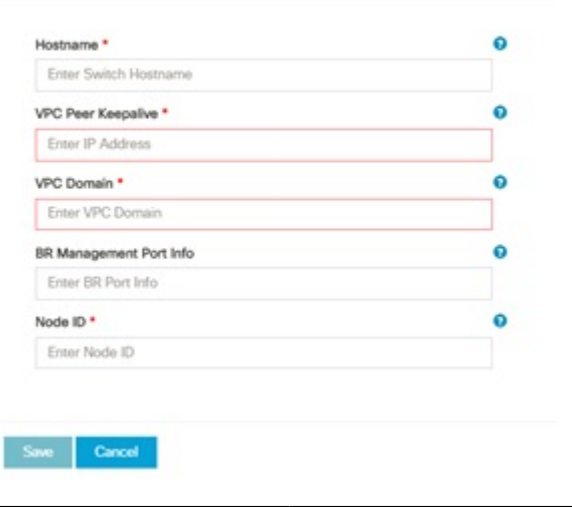
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Name	Description														
Name	ToR switch name.														
Username	ToR switch username.														
Password	ToR switch password.														
SSH IP	ToR switch SSH IP.														
SSN Num	ToR switch ssn num.														
VPC Peer Keepalive	Peer Management IP. You cannot define if there is no peer.														

Name	Description	
	VPC Domain	Cannot define if there is no peer.
	VPC Peer Port Info	Interface for vpc peer ports.
	VPC Peer VLAN Info	VLAN ids for vpc peer ports (optional).
	BR Management Port Info	Management interface of build node.
	BR Management PO Info	Port channel number for management interface of build node.
	BR Management VLAN info	VLAN id for management interface of build node (access).
Click Save .		

Note When the Tenant type ACI/VLAN is selected, the ToR switch information table differs and is mandatory.

Name	Description										
<p>Configure ToR</p>	<p>Is not checked, as by default ACI will configure the ToRs</p> <p>Switch Details</p>  <table border="1" data-bbox="893 913 1485 1318"> <tbody> <tr> <td>Host Name</td> <td>ToR switch name.</td> </tr> <tr> <td>VPC Peer keep alive</td> <td>Enter Peer must be exist pair.</td> </tr> <tr> <td>VPC Domain</td> <td>Enter an integer.</td> </tr> <tr> <td>BR management port info</td> <td>Enter BR management port info eg. Eth1/19 ,atleast one pair to be exist.</td> </tr> <tr> <td>Enter Node ID</td> <td>Entered integer must be unique.</td> </tr> </tbody> </table>	Host Name	ToR switch name.	VPC Peer keep alive	Enter Peer must be exist pair.	VPC Domain	Enter an integer.	BR management port info	Enter BR management port info eg. Eth1/19 ,atleast one pair to be exist.	Enter Node ID	Entered integer must be unique.
Host Name	ToR switch name.										
VPC Peer keep alive	Enter Peer must be exist pair.										
VPC Domain	Enter an integer.										
BR management port info	Enter BR management port info eg. Eth1/19 ,atleast one pair to be exist.										
Enter Node ID	Entered integer must be unique.										

Note If TOR_TYPE is selected as NCS-5500, the TOR switch information table differs and is mandatory.

Name	Description
<p>Configure ToR optional checkbox</p> <p>Note If NSC-5500 is selected as TOR_TYPE, configure TOR is set as mandatory.</p>	<p>Enabling this checkbox, changes the configure ToR section from false to true.</p> <p>Note Configure TOR is true then ToR switchinfo maps in servers.</p>

Name	Description
If you want to enter NCS details fill in the NCS-5500 Information table.	

Name	Description
	<p>Click (+) to add information for NCS-5500 Switch.</p> <p>Switch Details</p> <div style="border: 1px solid #ccc; padding: 10px;"> <p>Hostname * +</p> <input type="text" value="Enter Switch Hostname"/> <p>Username * +</p> <input type="text" value="Enter Switch Username"/> <p>Password * +</p> <input type="text" value="Enter Password"/> <p>SSH-IP * +</p> <input type="text" value="Enter IP Address"/> <p>VPC Peer Keepalive +</p> <input type="text" value="Enter IP Address"/> <p>VPC Peer Port Info +</p> <input type="text" value="Enter VPC Port"/> <p>VPC Peer Port Address +</p> <input type="text" value="Enter VPC Port Address"/> <p>ISIS Loopback Address +</p> <input type="text" value="Enter ISIS Loopback Address"/> <p>ISIS Net Entity Title +</p> <input type="text" value="Enter ISIS net entity title"/> <p>ISIS Prefix SID +</p> <input type="text" value="Enter ISIS Prefix SID"/> <p>BR Management Port Info +</p> <input type="text" value="Enter BR Port Info"/> <p>BR Management PO Info +</p> <input type="text" value="Enter BR PO Info"/> <p style="text-align: right;"> <input type="button" value="Save"/> <input type="button" value="Cancel"/> </p> </div>
Name	Description
Name	Enter the NCS-5500 hostname.
User Name	Enter the NCS-5500 username.
Password	Enter the NCS-5500 password.
SSH IP	Enter the NCS-5500 ssh IP Address.
VPC Peer Link	Peer management IP.

Name	Description	
	Name	Description
	BR Management PO Info	Port channel number for management interface of build node.
	BR Management VLAN info	VLAN id for management interface of build node (access).
	VPC Peer Port Info	Interface for vpc peer ports.
	VPC Peer Port Address	Address for ISIS exchange.
	ISIS Loopback Interface address	ISIS loopback IP Address.
	ISIS net entity title	Enter a String.
	ISIS prefix SID	Integer between 16000 to 1048575.

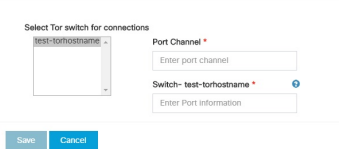
When TOR-TYPE selected as NCS-5500 and 2 NCS-5500 are configured it is mandatory to configure MULTI_SEGMENT_ROUTING_INFO

Name	Description
BGP AS Number field	Integer between 1 to 65535.
ISIS Area Tag field	A valid string.
Loopback Interface name field	Loopback Interface name.
API bundle ID field	Integer between 1 to 65535.
API bridge domain field	String (Optional, only needed when br_api of mgmt node is also going through NCS-5500; this item and api_bundle_id are mutually exclusive).
EXT bridge domain field	A valid string (user pre-provisions physical, bundle interface, sub-interface and external BD for external uplink and provides external BD info setup_data).

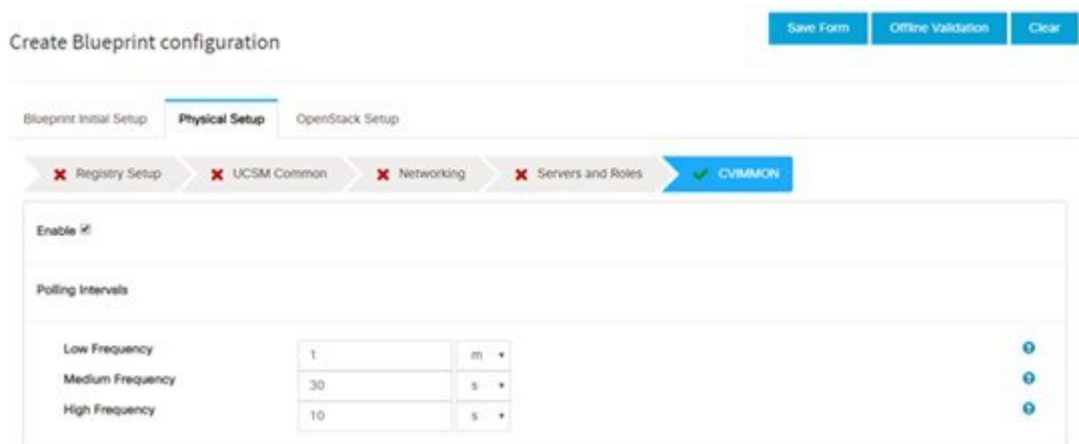
7. Click **NFVI Monitoring** checkbox in Blueprint Initial Setup to enable the NFVI Monitoring configuration tab.

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Cisco VIM Unified Management Version: 2.4.1

Name	Description
Admin IP	IP Address of Control Center VM
Management VIP	VIP for ceilometer/dispatcher to use, must be unique across VIM Pod
Host Name	Hostname of Collector VM
Password	Password of Collector VM
CCUSER Password	Password of CCUSER
Admin IP	SSH IP of Collector VM
Management IP	Management IP of Collector VM

Name	Description				
Collector ToR Connections	<ol style="list-style-type: none"> 1. Click on (+) icon to Add Collector ToR Connections. 2. Select the ToR switches from list to add the information. 3. It is optional and available for ToR type NCS-5500 4. For now, it supports adding only one Collector ToR Connection <p>Add Collector Tor Connections</p>  <table border="1"> <tr> <td>Port Channel</td> <td>Enter port channel.</td> </tr> <tr> <td>Switch - {torSwitch-hostname}</td> <td>Enter port number, For example, eth1/15.</td> </tr> </table> <p>Click Save</p>	Port Channel	Enter port channel.	Switch - {torSwitch-hostname}	Enter port number, For example, eth1/15.
Port Channel	Enter port channel.				
Switch - {torSwitch-hostname}	Enter port number, For example, eth1/15.				
Rabbit MQ User Name	Enter Rabbit MQ username.				

8. Click **CVIMMON** checkbox in Blueprint Initial Setup to enable the CVIMMON configuration tab.



Create Blueprint configuration

Save Form Offline Validation Clear

Blueprint Initial Setup **Physical Setup** OpenStack Setup

Registry Setup UCSM Common Networking Servers and Roles **CVIMMON**

Enable

Polling Intervals

Low Frequency	1	m
Medium Frequency	30	s
High Frequency	10	s

CVIM-MON is a built-in infrastructure monitoring service based on telegraf/prometheus/grafana.

When enabled, the telegraf service will be deployed on every node on the pod to capture infrastructure level stats (CPU, memory, network, containers, and so on.) and a Prometheus server will be installed on the management node to poll for these stats and store them in its time series database. The statistics can then be viewed using the grafana server that is accessible on the management node at port 3000 (password protected).

There are three levels of polling intervals which are used by different telegraf plugins:

- Low frequency interval is used to collect system level metrics like cpu, memory.

- Medium frequency interval is used to collect docker metrics.
- High frequency interval is used to collect rabbitmq metrics.

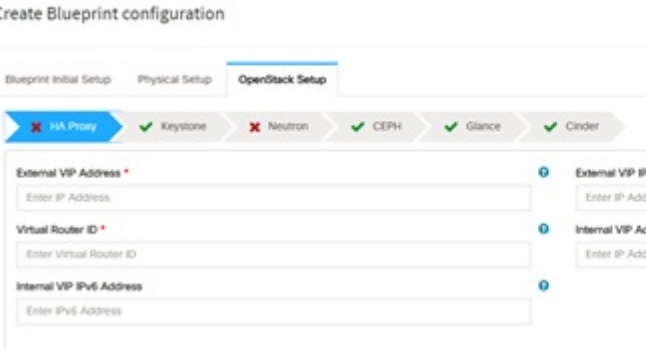
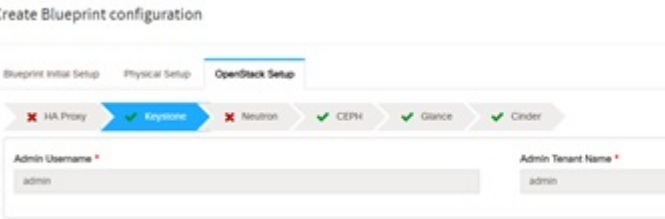
Defining polling intervals in setup data is optional. If not defined, the default values are used.

CVIM-MON is mutually exclusive to NFVIMON.

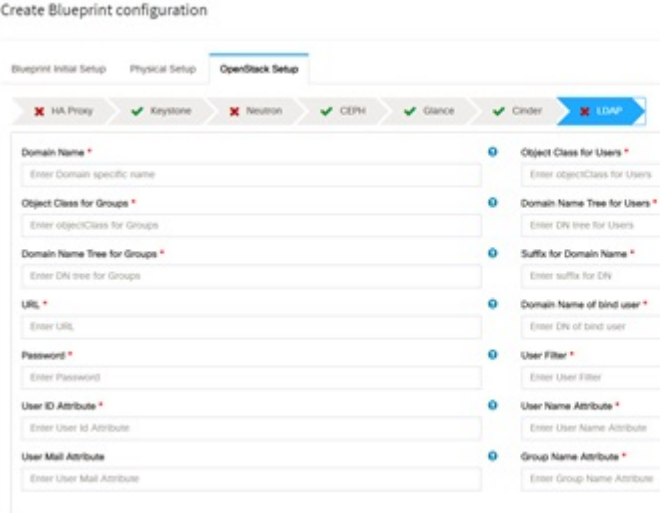
PODNAME is required, when CVIM-MON is enabled.

Name	Description
Enable	Default is False
Polling Intervals	
Low frequency	<Integer following with time sign (s/m/h)> # min of 1 minute (1m) if not defined defaults to 1m, also it needs to be higher than medium interval.
Medium frequency	<Integer following with time sign (s/m/h)> # min of 30 seconds (30s) if not defined defaults to 30s, also it needs to be higher than high interval.
High frequency	<Integer following with time sign (s/m/h)> # min of 10 seconds (10s) if not defined defaults to 10s.

9. Click **OpenStack Setup** Tab to advance to the **OpenStack Setup** Configuration page. On the **OpenStack Setup** Configuration page of the Cisco VIM Insight wizard, complete the following fields:

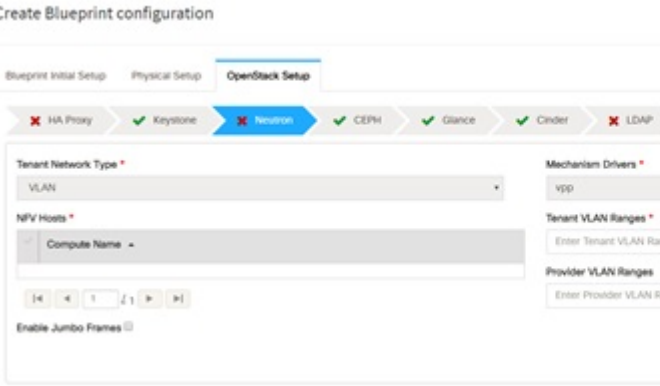
Name	Description										
<p>HA Proxy</p>	<p>Fill in the following details:</p>  <table border="1" data-bbox="854 808 1523 1220"> <tr> <td data-bbox="854 808 1187 894">External VIP Address field</td> <td data-bbox="1195 808 1523 894">Enter IP address of External VIP.</td> </tr> <tr> <td data-bbox="854 905 1187 991">External VIP Address IPv6 field</td> <td data-bbox="1195 905 1523 991">Enter IPv6 address of External VIP.</td> </tr> <tr> <td data-bbox="854 1001 1187 1045">Virtual Router ID field</td> <td data-bbox="1195 1001 1523 1045">Enter the Router ID for HA.</td> </tr> <tr> <td data-bbox="854 1056 1187 1142">Internal VIP Address IPv6 field</td> <td data-bbox="1195 1056 1523 1142">Enter IPv6 address of Internal IP.</td> </tr> <tr> <td data-bbox="854 1152 1187 1220">Internal VIP Address field</td> <td data-bbox="1195 1152 1523 1220">Enter IP address of Internal VIP.</td> </tr> </table>	External VIP Address field	Enter IP address of External VIP.	External VIP Address IPv6 field	Enter IPv6 address of External VIP.	Virtual Router ID field	Enter the Router ID for HA.	Internal VIP Address IPv6 field	Enter IPv6 address of Internal IP.	Internal VIP Address field	Enter IP address of Internal VIP.
External VIP Address field	Enter IP address of External VIP.										
External VIP Address IPv6 field	Enter IPv6 address of External VIP.										
Virtual Router ID field	Enter the Router ID for HA.										
Internal VIP Address IPv6 field	Enter IPv6 address of Internal IP.										
Internal VIP Address field	Enter IP address of Internal VIP.										
<p>Keystone</p>	<p>Mandatory fields are pre-populated.</p>  <table border="1" data-bbox="854 1591 1523 1703"> <tr> <td data-bbox="854 1591 1187 1646">Admin User Name</td> <td data-bbox="1195 1591 1523 1646">admin.</td> </tr> <tr> <td data-bbox="854 1656 1187 1703">Admin Tenant Name</td> <td data-bbox="1195 1656 1523 1703">admin.</td> </tr> </table>	Admin User Name	admin.	Admin Tenant Name	admin.						
Admin User Name	admin.										
Admin Tenant Name	admin.										

Name	Description
LDAP	

Name	Description																										
	<p>LDAP enable checkbox which by default is false, if LDAP is enabled on keystone.</p>  <p>The screenshot shows the 'OpenStack Setup' tab in a configuration wizard. At the top, there are progress indicators for various services: HA Proxy (disabled), Keystone (enabled), Neutron (disabled), Ceph (enabled), Glance (enabled), Cinder (enabled), and LDAP (disabled). Below this, there are several input fields for LDAP configuration, including Domain Name, Object Class for Users, Object Class for Groups, Domain Name Tree for Users, Domain Name Tree for Groups, URL, Password, User ID Attribute, User Mail Attribute, Object Class for Users, Domain Name Tree for Users, Suffix for Domain Name, Domain Name of bind user, User Filter, User Name Attribute, and Group Name Attribute.</p> <table border="1" data-bbox="852 940 1529 1869"> <tbody> <tr> <td>Domain Name field</td> <td>Enter name for Domain name.</td> </tr> <tr> <td>Object Class for Users field</td> <td>Enter a string as input.</td> </tr> <tr> <td>Object Class for Groups field</td> <td>Enter a string.</td> </tr> <tr> <td>Domain Name Tree for Users field</td> <td>Enter a string.</td> </tr> <tr> <td>Domain Name Tree for Groups field</td> <td>Enter a string.</td> </tr> <tr> <td>Suffix for Domain Name field</td> <td>Enter a string.</td> </tr> <tr> <td>URL field</td> <td>Enter a URL with ending port number.</td> </tr> <tr> <td>Domain Name of Bind User field</td> <td>Enter a string.</td> </tr> <tr> <td>Password field</td> <td>Enter Password as string format.</td> </tr> <tr> <td>User Filter field</td> <td>Enter filter name as string.</td> </tr> <tr> <td>User ID Attribute field</td> <td>Enter a string.</td> </tr> <tr> <td>User Name Attribute field</td> <td>Enter a string.</td> </tr> <tr> <td>User Mail Attribute field</td> <td>Enter a string.</td> </tr> </tbody> </table>	Domain Name field	Enter name for Domain name.	Object Class for Users field	Enter a string as input.	Object Class for Groups field	Enter a string.	Domain Name Tree for Users field	Enter a string.	Domain Name Tree for Groups field	Enter a string.	Suffix for Domain Name field	Enter a string.	URL field	Enter a URL with ending port number.	Domain Name of Bind User field	Enter a string.	Password field	Enter Password as string format.	User Filter field	Enter filter name as string.	User ID Attribute field	Enter a string.	User Name Attribute field	Enter a string.	User Mail Attribute field	Enter a string.
Domain Name field	Enter name for Domain name.																										
Object Class for Users field	Enter a string as input.																										
Object Class for Groups field	Enter a string.																										
Domain Name Tree for Users field	Enter a string.																										
Domain Name Tree for Groups field	Enter a string.																										
Suffix for Domain Name field	Enter a string.																										
URL field	Enter a URL with ending port number.																										
Domain Name of Bind User field	Enter a string.																										
Password field	Enter Password as string format.																										
User Filter field	Enter filter name as string.																										
User ID Attribute field	Enter a string.																										
User Name Attribute field	Enter a string.																										
User Mail Attribute field	Enter a string.																										

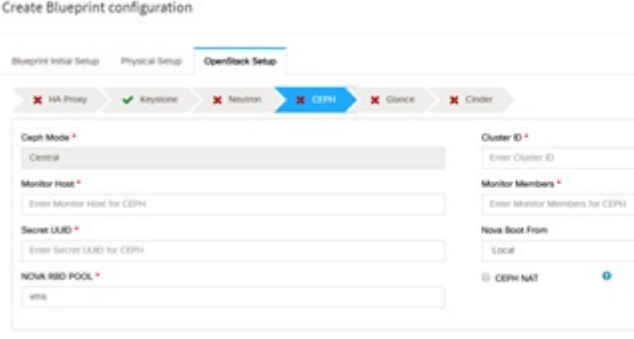

Name	Description		
	<table border="1"><tr><td data-bbox="813 287 1149 338">Group Name Attribute field</td><td data-bbox="1149 287 1481 338">Enter a string.</td></tr></table>	Group Name Attribute field	Enter a string.
Group Name Attribute field	Enter a string.		



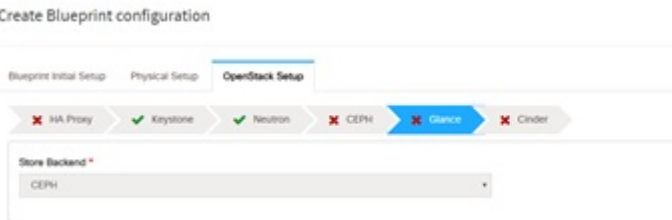
Name	Description
Neutron	

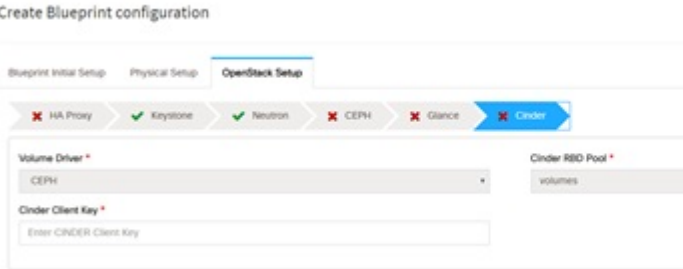
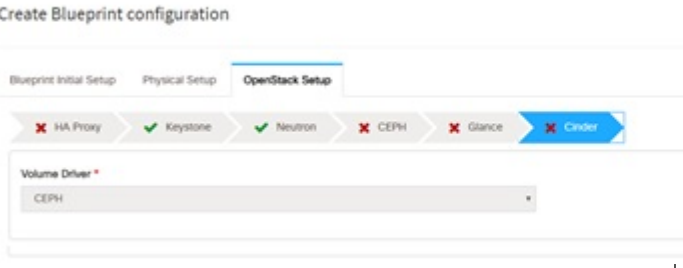
Name	Description
	<p>Neutron fields would change on the basis of Tenant Network Type Selection from Blueprint Initial Setup. Following are the options available for Neutron for OVS/VLAN:</p>  <p>The screenshot shows the 'Create Blueprint configuration' page with tabs for 'Blueprint Initial Setup', 'Physical Setup', and 'OpenStack Setup'. The 'OpenStack Setup' tab is active, showing a progress bar with indicators for HA Proxy (red X), Keystone (green check), Neutron (blue highlight), CEPH (green check), Glance (green check), Cinder (green check), and LDAP (red X). Below the progress bar, there are configuration fields for 'Tenant Network Type' (set to VLAN), 'Mechanism Drivers' (set to VPP), 'NFV Hosts' (with a dropdown for 'Compute Name'), 'Tenant VLAN Ranges', and 'Provider VLAN Ranges'. There is also an 'Enable Jumbo Frames' checkbox.</p>
Tenant Network Type field	Auto Filled based on the Tenant Network Type selected in the Blueprint Initial Setup page.
Mechanism Drivers field	Auto Filled based on the Tenant Network Type selected in Blueprint Initial Setup page.
NFV Hosts field	<p>Auto filled with the Compute you added in Server and Roles.</p> <p>If you select All in this section NFV_HOSTS: ALL will be added to the Blueprint or you can select one particular compute. For example:</p> <p>NFV_HOSTS: compute-server-1, compute-server-2.</p>
Tenant VLAN Ranges field	List of ranges separated by comma form start:end.
Provider VLAN Ranges field	List of ranges separated by comma form start:end.
VM Hugh Page Size (available for NFV_HOSTS option) field	2M or 1G (optional, defaults to 2M)
VM_HUGHPAGE_PERCENTAGE	Optional, defaults to 100%; can range between 0 and 100

Name	Description
	NR_RESERVED_VSWITCH_CORES Allowed only for VPP Number of cores associated to VPP, defaults to 2. Takes value of 2 through 6.
	Enable Jumbo Frames field Enable the checkbox
For Tenant Network Type Linux Bridge everything remains the same but Tenant VLAN Ranges will be removed.	

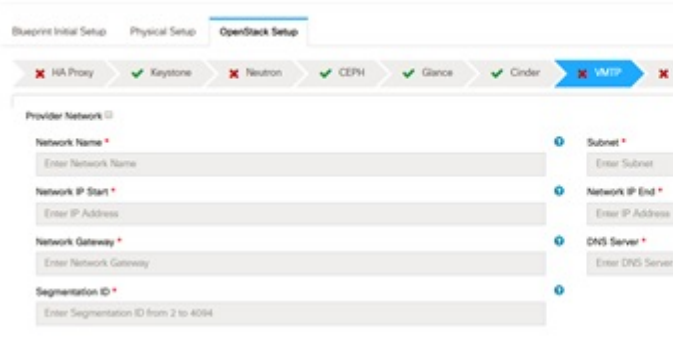

Name	Description
CEPH	

Name	Description																
	<p>1. 1. When Object Storage Backend is selected Central in blueprint initial setup.</p>  <table border="1" data-bbox="893 745 1526 1260"> <tr> <td>CEPH Mode</td> <td>By default Central.</td> </tr> <tr> <td>Cluster ID</td> <td>Enter Cluster ID.</td> </tr> <tr> <td>Monitor Host</td> <td>Enter Monitor Host for CEPH</td> </tr> <tr> <td>Monitor Members</td> <td>Enter Monitor Members for CEPH</td> </tr> <tr> <td>Secret UUID</td> <td>Enter Secret UUID for CEPH</td> </tr> <tr> <td>NOVA Boot from</td> <td>Drop down selection. You can choose CEPH or local.</td> </tr> <tr> <td>NOVA RBD POOL</td> <td>Enter NOVA RBD Pool (default's to vms)</td> </tr> <tr> <td>CEPH NAT</td> <td>Optional, needed for Central Ceph and when mgmt network is not routable</td> </tr> </table> <p>2. 2. When Object Storage Backend is selected Dedicated in blueprint initial setup.</p>  <ul style="list-style-type: none"> • CEPH Mode: By default Dedicated. • NOVA Boot: From drop down selection you can choose CEPH or local. <p>3. 3. When Object Storage Backend is selected NetApp in blueprint initial setup.</p>	CEPH Mode	By default Central.	Cluster ID	Enter Cluster ID.	Monitor Host	Enter Monitor Host for CEPH	Monitor Members	Enter Monitor Members for CEPH	Secret UUID	Enter Secret UUID for CEPH	NOVA Boot from	Drop down selection. You can choose CEPH or local.	NOVA RBD POOL	Enter NOVA RBD Pool (default's to vms)	CEPH NAT	Optional, needed for Central Ceph and when mgmt network is not routable
CEPH Mode	By default Central.																
Cluster ID	Enter Cluster ID.																
Monitor Host	Enter Monitor Host for CEPH																
Monitor Members	Enter Monitor Members for CEPH																
Secret UUID	Enter Secret UUID for CEPH																
NOVA Boot from	Drop down selection. You can choose CEPH or local.																
NOVA RBD POOL	Enter NOVA RBD Pool (default's to vms)																
CEPH NAT	Optional, needed for Central Ceph and when mgmt network is not routable																

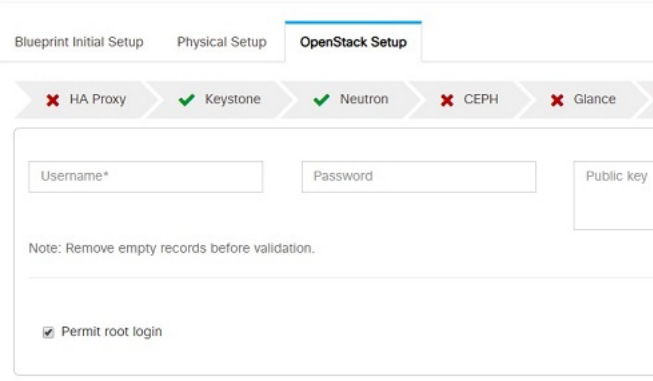
Name	Description
	<p>Create Blueprint configuration</p>  <p>The screenshot shows the 'OpenStack Setup' step of a blueprint configuration wizard. A progress bar indicates the status of various components: HA Proxy (failed), Keystone (success), Neutron (success), CEPH (selected), and NetApp (failed). Below the progress bar, the 'Ceph Mode' dropdown menu is set to 'netapp'.</p>
<p>GLANCE</p>	<p>1. When Object Storage Backend is selected Central in blueprint initial setup.</p>  <p>The screenshot shows the 'OpenStack Setup' step with 'Glance' selected as the storage backend. The progress bar shows HA Proxy (failed), Keystone (success), Neutron (success), CEPH (failed), Glance (selected), and Cinder (failed). The 'Store Backend' dropdown is set to 'CEPH', and the 'Glance RBD Pool' dropdown is set to 'images'. The 'Glance Client Key' field is empty.</p> <p>When Object Storage Backend is selected Dedicated in blueprint initial setup.</p>  <p>The screenshot shows the 'OpenStack Setup' step with 'Glance' selected as the storage backend. The progress bar shows HA Proxy (failed), Keystone (success), Neutron (success), CEPH (failed), Glance (selected), and Cinder (failed). The 'Store Backend' dropdown is set to 'CEPH'.</p> <p>Note By default Populated for CEPH Dedicated with Store Backend value as CEPH.</p>


Name	Description
CINDER	<p>By default Populated for CEPH Dedicated with Volume Driver value as CEPH.</p>  <p>2. When Object Storage Backend is selected Dedicated in blueprint initial setup.</p>  <p>Note By default Populated for CEPH Dedicated with Volume Driver value as CEPH.</p>

Name	Description
VMTP optional section, this will be visible only if VMTP is selected from Blueprint Initial Setup. For VTS tenant type Provider network is only supported.	

Name	Description		
	<p>Check one of the check boxes to specify a VMTP network:</p> <ul style="list-style-type: none"> • Provider Network • External Network <p>For the Provider Network complete the following:</p> <p>Create Blueprint configuration</p> 		
	<table border="1"> <tr> <td data-bbox="857 930 1187 997">Network Name field</td> <td data-bbox="1195 930 1518 997">Enter the name for the external network.</td> </tr> </table>	Network Name field	Enter the name for the external network.
Network Name field	Enter the name for the external network.		
	<table border="1"> <tr> <td data-bbox="857 1014 1187 1081">Subnet field</td> <td data-bbox="1195 1014 1518 1081">Enter the Subnet for Provider Network.</td> </tr> </table>	Subnet field	Enter the Subnet for Provider Network.
Subnet field	Enter the Subnet for Provider Network.		
	<table border="1"> <tr> <td data-bbox="857 1104 1187 1171">Network IP Start field</td> <td data-bbox="1195 1104 1518 1171">Enter the starting floating IPv4 address.</td> </tr> </table>	Network IP Start field	Enter the starting floating IPv4 address.
Network IP Start field	Enter the starting floating IPv4 address.		
	<table border="1"> <tr> <td data-bbox="857 1194 1187 1262">Network IP End field</td> <td data-bbox="1195 1194 1518 1262">Enter the ending floating IPv4 address.</td> </tr> </table>	Network IP End field	Enter the ending floating IPv4 address.
Network IP End field	Enter the ending floating IPv4 address.		
	<table border="1"> <tr> <td data-bbox="857 1285 1187 1352">Network Gatewayfield</td> <td data-bbox="1195 1285 1518 1352">Enter the IPv4 address for the Gateway.</td> </tr> </table>	Network Gateway field	Enter the IPv4 address for the Gateway.
Network Gateway field	Enter the IPv4 address for the Gateway.		
	<table border="1"> <tr> <td data-bbox="857 1375 1187 1442">DNS Server field</td> <td data-bbox="1195 1375 1518 1442">Enter the DNS server IPv4 address.</td> </tr> </table>	DNS Server field	Enter the DNS server IPv4 address.
DNS Server field	Enter the DNS server IPv4 address.		
	<table border="1"> <tr> <td data-bbox="857 1465 1187 1491">Segmentation ID field</td> <td data-bbox="1195 1465 1518 1491">Enter the segmentation ID.</td> </tr> </table>	Segmentation ID field	Enter the segmentation ID.
Segmentation ID field	Enter the segmentation ID.		
	<p>For External Network fill in the following details:</p>		
			

Name	Description	
	Network Name field	Enter the name for the external network.
	IP Start field	Enter the starting floating IPv4 address.
	IP End field	Enter the ending floating IPv4 address.
	Gateway field	Enter the IPv4 address for the Gateway.
	DNS Server field	Enter the DNS server IPv4 address.
	Subnet field	Enter the Subnet for External Network.
<p>TLS optional section, this will be visible only if TLS is selected from Blueprint Initial Setup Page.</p>	<p>TLS has two options:</p> <ul style="list-style-type: none"> • External LB VIP FQDN - Text Field. • External LB VIP TLS - True/False. By default this option is false. 	

Name	Description						
<p>Under the OpenStack setup tab, Vim_admins tab will be visible only when Vim_admins is selected from the Optional Features & Services under the Blueprint Initial setup tab</p>	<p>Following are the field descriptions for VIM Admins:</p> <ul style="list-style-type: none"> • Add Username, Password, Public key or both for the non-root login. • At least one Vim Admin must be configured when Permit root login is false. <p>Create Blueprint configuration</p>  <table border="1" data-bbox="852 1050 1526 1386"> <tbody> <tr> <td data-bbox="852 1050 1185 1144">User Name</td> <td data-bbox="1193 1050 1526 1144">Enter username for Vim Admin.</td> </tr> <tr> <td data-bbox="852 1144 1185 1260">Password</td> <td data-bbox="1193 1144 1526 1260">Password field. Admin hash password should always start with \$6.</td> </tr> <tr> <td data-bbox="852 1260 1185 1386">Public Key</td> <td data-bbox="1193 1260 1526 1386">Public key for vim admin should always start with 'ssh-rsa AAAA....'</td> </tr> </tbody> </table>	User Name	Enter username for Vim Admin.	Password	Password field. Admin hash password should always start with \$6.	Public Key	Public key for vim admin should always start with 'ssh-rsa AAAA....'
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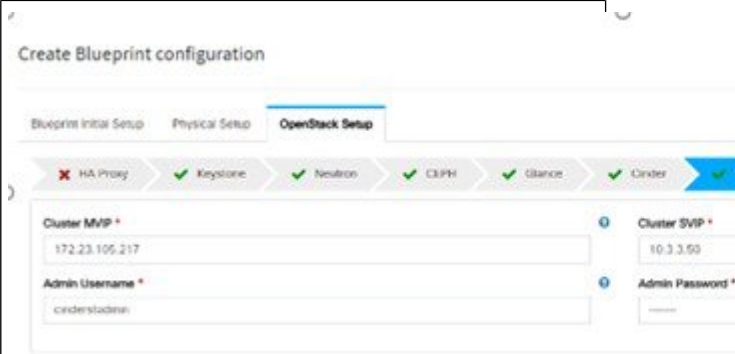
Name	Description												
<p>SwiftStack optional section will be visible only if SwiftStack is selected from Blueprint Initial Setup Page. SwiftStack is only supported with KeyStone2. If you select Keystone3, swiftstack will not be available to configure.</p>	<p>Following are the options that needs to be filled for SwiftStack:</p>  <table border="1" data-bbox="820 688 1485 1318"> <tbody> <tr> <td data-bbox="820 688 1149 814">Cluster End Point</td> <td data-bbox="1149 688 1485 814">IP address of PAC (proxy-account-container) endpoint.</td> </tr> <tr> <td data-bbox="820 814 1149 905">Admin User</td> <td data-bbox="1149 814 1485 905">Admin user for swift to authenticate in keystone.</td> </tr> <tr> <td data-bbox="820 905 1149 1056">Admin Tenant</td> <td data-bbox="1149 905 1485 1056">The service tenant corresponding to the Account-Container used by Swiftstack.</td> </tr> <tr> <td data-bbox="820 1056 1149 1207">Reseller Prefix</td> <td data-bbox="1149 1056 1485 1207">Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_</td> </tr> <tr> <td data-bbox="820 1207 1149 1266">Admin Password</td> <td data-bbox="1149 1207 1485 1266">swiftstack_admin_password</td> </tr> <tr> <td data-bbox="820 1266 1149 1318">Protocol</td> <td data-bbox="1149 1266 1485 1318">http or https</td> </tr> </tbody> </table>	Cluster End Point	IP address of PAC (proxy-account-container) endpoint.	Admin User	Admin user for swift to authenticate in keystone.	Admin Tenant	The service tenant corresponding to the Account-Container used by Swiftstack.	Reseller Prefix	Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_	Admin Password	swiftstack_admin_password	Protocol	http or https
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Name	Description																									
<p>APICINFO tab is available in Openstack setup, when the Tenant type ACI/VLAN is selected in blueprint initial setup.</p> <p>Note When ACI/VLAN is selected then ToR switch from initial setup is mandatory.</p>	<table border="1"> <thead> <tr> <th data-bbox="857 298 1180 352">Name</th> <th data-bbox="1196 298 1516 352">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="857 361 1180 470">APIC Hosts field</td> <td data-bbox="1196 361 1516 470">Enter host input. Example: <ip1 host1>:[port] . max of 3, min of 1, not 2;</td> </tr> <tr> <td data-bbox="857 478 1180 533">apic_username field</td> <td data-bbox="1196 478 1516 533">Enter a string format.</td> </tr> <tr> <td data-bbox="857 541 1180 596">apic_password filed</td> <td data-bbox="1196 541 1516 596">Enter Password.</td> </tr> <tr> <td data-bbox="857 604 1180 672">apic_system_id field</td> <td data-bbox="1196 604 1516 672">Enter input as string. Max length 8.</td> </tr> <tr> <td data-bbox="857 680 1180 735">apic_resource_prefix field</td> <td data-bbox="1196 680 1516 735">Enter string max length 6.</td> </tr> <tr> <td data-bbox="857 743 1180 798">apic_tep_address_pool field</td> <td data-bbox="1196 743 1516 798">Allowed only 10.0.0.0/16</td> </tr> <tr> <td data-bbox="857 806 1180 873">multiclass_address_pool field</td> <td data-bbox="1196 806 1516 873">Allowed only 225.0.0.0/15</td> </tr> <tr> <td data-bbox="857 882 1180 936">apic_pod_id field</td> <td data-bbox="1196 882 1516 936">Enter integer(1- 65535)</td> </tr> <tr> <td data-bbox="857 945 1180 999">apic_installer_tenant field</td> <td data-bbox="1196 945 1516 999">Enter String, max length 32</td> </tr> <tr> <td data-bbox="857 1008 1180 1062">apic_installer_vrf field</td> <td data-bbox="1196 1008 1516 1062">Enter String, max length 32</td> </tr> <tr> <td data-bbox="857 1071 1180 1117">api_l3out_network field</td> <td data-bbox="1196 1071 1516 1117">Enter String, max length 32</td> </tr> </tbody> </table>	Name	Description	APIC Hosts field	Enter host input. Example: <ip1 host1>:[port] . max of 3, min of 1, not 2;	apic_username field	Enter a string format.	apic_password filed	Enter Password.	apic_system_id field	Enter input as string. Max length 8.	apic_resource_prefix field	Enter string max length 6.	apic_tep_address_pool field	Allowed only 10.0.0.0/16	multiclass_address_pool field	Allowed only 225.0.0.0/15	apic_pod_id field	Enter integer(1- 65535)	apic_installer_tenant field	Enter String, max length 32	apic_installer_vrf field	Enter String, max length 32	api_l3out_network field	Enter String, max length 32	
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apic_tep_address_pool field	Allowed only 10.0.0.0/16																									
multiclass_address_pool field	Allowed only 225.0.0.0/15																									
apic_pod_id field	Enter integer(1- 65535)																									
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api_l3out_network field	Enter String, max length 32																									
<p>VTS tab is available in Openstack setup, when Tenant Type is VTS/VLAN selected.</p> <p>If vts day0 is enabled then SSH username and SSH password is mandatory.</p> <p>If SSH_username is input present then SSH password is mandatory vice-versa</p>	<table border="1"> <thead> <tr> <th data-bbox="857 1134 1180 1188">Name</th> <th data-bbox="1196 1134 1516 1188">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="857 1197 1180 1251">VTS Day0 (checkbox)</td> <td data-bbox="1196 1197 1516 1251">True or false default is false.</td> </tr> <tr> <td data-bbox="857 1260 1180 1327">VTS User name</td> <td data-bbox="1196 1260 1516 1327">Enter as string does not contain special characters.</td> </tr> <tr> <td data-bbox="857 1335 1180 1390">VTS Password</td> <td data-bbox="1196 1335 1516 1390">Enter password</td> </tr> <tr> <td data-bbox="857 1398 1180 1453">VTS NCS IP</td> <td data-bbox="1196 1398 1516 1453">Enter IP Address format.</td> </tr> <tr> <td data-bbox="857 1461 1180 1516">VTC SSH Username</td> <td data-bbox="1196 1461 1516 1516">Enter a string</td> </tr> <tr> <td data-bbox="857 1524 1180 1562">VTC SHH Password</td> <td data-bbox="1196 1524 1516 1562">Enter password</td> </tr> </tbody> </table>	Name	Description	VTS Day0 (checkbox)	True or false default is false.	VTS User name	Enter as string does not contain special characters.	VTS Password	Enter password	VTS NCS IP	Enter IP Address format.	VTC SSH Username	Enter a string	VTC SHH Password	Enter password											
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VTS Password	Enter password																									
VTS NCS IP	Enter IP Address format.																									
VTC SSH Username	Enter a string																									
VTC SHH Password	Enter password																									

10. For SolidFire, enter the following:


Name	Description

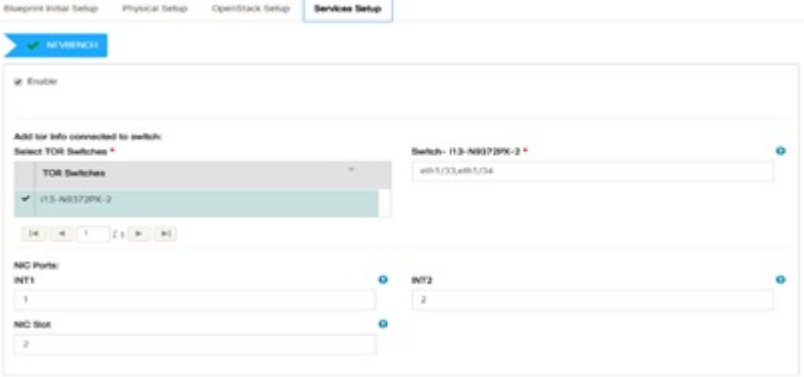
SolidFire is visible for configuration on day0
 SolidFire is not allowed as a day-2 deployment option
 SolidFire is always available with CEPH.



Cluster MVP field	Management IP of SolidFire cluster.
Cluster SVIP field	Storage VIP of SolidFire cluster.
Admin Username	Admin user on SolidFire cluster
Admin Password	Admin password on SolidFire cluster.

11. If **Syslog Export** or **NFVBENCH** is selected in **Blueprint Initial Setup** Page, then **Services Setup** page will be enabled for user to view. Following are the options under **Services Setup** Tab:

Name	Description																					
Syslog Export	<p>Following are the options for Syslog Settings:</p> <p>User can add maximum of three entries.</p> <p>To add new SysLog information, click on Add SysLog button, fill all the required information listed below and hit Save button.</p>  <table border="1" data-bbox="675 800 1528 1171"> <thead> <tr> <th>Remote Host</th> <th>Protocol</th> <th>Facility</th> <th>Severity</th> <th>Port</th> <th>Clients</th> <th>Action</th> </tr> </thead> <tbody> <tr> <td>1.1.1.1</td> <td>udp</td> <td>local5</td> <td>debug</td> <td>514</td> <td>ELK</td> <td>[Edit] [Delete]</td> </tr> <tr> <td>2.2.2.2</td> <td>udp</td> <td>local5</td> <td>debug</td> <td>514</td> <td>ELK</td> <td>[Edit] [Delete]</td> </tr> </tbody> </table>	Remote Host	Protocol	Facility	Severity	Port	Clients	Action	1.1.1.1	udp	local5	debug	514	ELK	[Edit] [Delete]	2.2.2.2	udp	local5	debug	514	ELK	[Edit] [Delete]
Remote Host	Protocol	Facility	Severity	Port	Clients	Action																
1.1.1.1	udp	local5	debug	514	ELK	[Edit] [Delete]																
2.2.2.2	udp	local5	debug	514	ELK	[Edit] [Delete]																
Remote Host	Enter Syslog IP address.																					
Protocol	Only UDP is supported.																					
Facility	Defaults to local5.																					
Severity	Defaults to debug.																					
Clients	Defaults to ELK.																					
Port	Defaults to 514 but can be modified by the User.																					

Name	Description
NFVBENCH	<p>NFVBENCH enable checkbox by default is false.</p> <p>Add ToR information connect to Switch:</p>  <ul style="list-style-type: none"> • Select a TOR Switch and enter the Switch name. • Enter the port number. For Example: eth1/5 . VTEP VLANs (mandatory and needed only for VTS/VXLAN,): Enter 2 different VLANs for VLAN1 and VLAN2. • NIC Ports: INT1 and INT2 optional input. Enter the 2 port numbers of the 4-port 10G Intel NIC at the management node used for NFVBench. <p>NIC Slot: Optional input, should be in the range of 1-6, indicates which NIC to use in case there are multiple NICs. If nic_slot is defined, then nic_port has to be defined and vice-versa.</p>
ENABLE_ESC_PRIV	Enable the checkbox to set it as True. By default, it is False .

Step 4 Click **Offlinevalidation**, to initiate an offline validation of the Blueprint.

Step 5 Blueprint can also be created using an **Upload functionality**:

- In Blueprint Initial Setup.
- Click **Browse** in the blueprint initial setup.
- Select the YAML file you want to upload.
- Click **Select** button.
- Clicking on load button in the Insight UI Application. All the fields present in the YAML file would be uploaded to the respective fields in UI.
- Enter the name of the Blueprint (Make sure you enter unique name while saving Blueprints. There would be no two Blueprints with same name.)
- Click **Offline Validation**.
- If all the mandatory fields in the UI are populated, then Offline Validation of the Blueprint will start else a pop up would be visible which will inform which section of Blueprint Creation has a missing information error.

- On Validation Success of Blueprint **Save Blueprint** button will be enabled with **Cancel** button
- A pop up will be generated asking to initiate the deployment with **Blueprint Name** and the stages you need to run.
On Validation Failure of Blueprint **Cancel** button will be enabled.

Once the **Offlinevalidation** is successful, **Save** option will be enabled which will redirect you to the Blueprint Management Page.

The wizard advances to the Blueprint Management page. On the Blueprint Management page you can select the recently added valid Blueprint and click **Install** button which is disabled by default.

A pop up will be generated asking to initiate the deployment with **Blueprint Name** and the stages you need to run.

By default all stages are selected but you can also do an incremented install.

In case of Incremented Install you should select stages in the order. For Example: If you select **Validation Stage** then the 2nd stage Management Node Orchestration will be enabled. You cannot skip stages and run a deployment.

Once you click **Proceed** the Cloud Deployment would be initiated and the progress can be viewed from "Dashboard".

Note Once the Blueprint is in **Active State**, the **Post-Install** features listed in Navigation Bar will changed to **Active** stage.

Post Installation Features for Active Blueprint

This option is only available to a pod, which is successfully deployed. There are multiple sublinks available to manage the day-n operation of the pod. However, often Insight cross-launches the relevant services, through delegating the actual rendering to the individual services.

Monitoring the Pod

Cisco VIM uses ELK (elasticsearch, logstash and Kibana) to monitor the OpenStack services, by cross-launching the Kibana dashboard.

To cross launch Kibana, complete the following instructions:

-
- Step 1** Login as **POD User**.
 - Step 2** Naviagte to **POD**.
 - Step 3** Navigate to **Post-install**
 - Step 4** Click **Monitoring**
The **Authentication Required** browser pop up is displayed.
 - Step 5** Enter the **username** as admin.
 - Step 6** Enter the **ELK_PASSWORD** password obtained from `/root/installer-<tagid>/openstack-configs/secrets.yaml` in the management node.
Kibana is launched in an I-Frame

Note Click [Click here to view Kibana logs in new tab](#) link to view Kibana Logs in a new tab.

Cross Launching Horizon

Horizon is the canonical implementation of Openstack's Dashboard, which provides a web based user interface to OpenStack services including Nova, Swift and, Keystone.

- Step 1** In the Navigation pane, click **Post-Install > Horizon**.
- Step 2** Click [Click here to view Horizon logs in new tab](#).
You will be redirected to Horizon landing page in a new tab.
-

NFVI Monitoring

NFVI monitoring is a Cross launch browser same as Horizon. NFVI monitoring link is available in the post install only if the setupdata has NFVI Monitoring configuration during the cloud deployment which basically pings the monitoring and checks status of **Collector VM1 Info** and **Collector VM2 Info**.

- Step 1** Login as **POD User**.
- Step 2** Naviagte to **POD**.
- Step 3** Navigate to **Post-install**
- Step 4** Click **Reconfigure**.
- Step 5** Click **NFVI Monitoring**
- Step 6** Click the link [Click here to view NFVI monitoring](#).
You will be redirected to NFVI monitoring page
-

Run VMTP

VIM 2.0, provides an integrated data and control plan test tool (called VMTP).VMTP helps you to test the cloud at any given time.

Run VMTP is divided in two sections:

- **Results for Auto Run:** Auto run shows the results of VMTP which was run during the cloud deployment (Blueprint Installation).
- **Results for Manual Run:** To run VMTP on demand click **Run VMTP**.



Note If VMTP stage was skipped or not-run during Blueprint Installation, this section of POST Install gets disabled for the user.

Run CloudPulse

In VIM, we provide an integrated tool, called Cloud Pulse, that periodically checks the cloud services endpoint. The results of these tests are reflected under the Cloud Pulse link. You can also run these API endpoint tests on demand, and fetch the result of these tests by refreshing the table.

Endpoints Tests:

1. cinder_endpoint
2. glance_endpoint
3. keystone_endpoint
4. nova_endpoint
5. neutron_endpoint
6. all_endpoint_tests

Operator Tests:

1. rabbitmq_check
2. galera_check
3. ceph_check
4. node_check
5. docker_check
6. all_operator_tests

Run NFV Bench

One can **Run NFV Bench** for **BandC** series Pod, through Cisco VIM Insight. On a pod running with CVIM , click on the NFVbench link on the NAV-Menu.

You can run either fixed rate test or NDR/PDR test. As the settings and results for the test types differ, the options to run these tests are presented in two tabs, with its own settings and results .

NDR/PDR Test

- Step 1** Log-in to **CISCO VIM Insight**.
- Step 2** In the Navigation pane, click **Post-Install >Run NFV Bench**.
- Step 3** Click on NDR/PDR test and complete the following fields

Name	Description
Iteration Duration	Select duration from 10 to 60 sec. Default is 20 sec
Frame Size	Select the correct frame size to run

Name	Description
Run NDR/PDR test	Click on Run NDR/PDR test. Once NDR/PDR test is finished it will display each type of test with its own settings and results.

Fixed Rate Test

- Step 1** Log in as **POD User**.
- Step 2** Navigate to **POD**.
- Step 3** Navigate to **Postinstall**.
- Step 4** Click **Run NFV Bench**.
- Step 5** Click Fixed rate test and complete the following fields.

Name	Description
Rate	Rate: Select right configuration pps or bps from drop down-list and enter values: For pps: minimum: 2500pps; maximum: 14500000pps (=14.5Mpps); default: 1000000pps (=1Mpps) For bps: minimum: 1400000bps; maximum: 10000000000bps (=10Gbps); default: 1000000000 (=1Gbps)
Iteration Duration	Select duration from 10-60Sec. Default is 20sec.
Frame Size	Select the right frame size(64,IMIX,1518) to run.
Run Fixed Rate Test	Click Run Fixed Rate Test . Once Fixed rate test is finished, it displays each type of test with its own settings and results.

POD Management

One of the key aspects of Cisco VIM is that it provides the ability for the admin to perform pod life-cycle management from a hardware and software perspective. Nodes of a given pod corrupts at times and VIM provides the ability to add, remove or replace nodes, based on the respective roles with some restrictions. Details of pod management will be listed in the admin guide, however as a summary the following operations are allowed on a running pod:

- Step 1** **Add or Remove Storage Nodes:** You can add one node at a time, given that we run Ceph as a distributed storage offering.
- Step 2** **Add or Remove Computes Nodes:** N-computes nodes can be replaced simultaneously; however at any given point, at least one compute node should be active.

Step 3 **Replace Control Nodes:** We do not support double fault scenarios, replacement of one controller at a time is supported.

System Update

As part of the lifecycle management of the cloud, VIM has the ability to bring in patches (bug fixes related to code, security, etc.), thereby providing the additional value of seamless cloud management from software perspective. Software update of the cloud is achieved by uploading a valid tar file following initiation of a System Update from the Insight as follows:

Step 1 Login as **POD User**.

Step 2 Navigate to **POD**.

Step 3 Navigate to **Post-install**

Step 4 Click **System Update**.

Step 5 Click **Openstack Password**

Step 6 Click **Browse** button.

Step 7 Select the valid tar file.

Step 8 Click **Open > Upload and Update** .

Message stating System Update has been initiated will be displayed. Logs front-ended by hyperlink would be visible in the section below before Update Logs to help see the progress of the update. During the software update, all other pod management activities will be disabled. Post-update, normal cloud management will commence.

Reconfiguring CIMC Password through Insight

Update the `cimc_password` in the CIMC-COMMON section, and/or the individual `cimc_password` for each server and then run the update password option.

To update a password, you need to follow the password rules:

- Must contain at least one lower case letter.
- Must contain at least one upper case letter.
- Must contain at least one digit between 0 to 9.
- One of these special characters `!$#@%^-_=*&`
- Your password has to be 8 to 14 characters long.

Before you begin

You must have a C-series pod up and running with Cisco VIM to reconfigure CIMC password.



Note Reconfigure CIMC password section would be disabled if the pod is in failed state as indicated by `ciscovim install-status`.

-
- Step 1** Login as **POD User**.
- Step 2** Naviagte to **POD**.
- Step 3** Navigate to **Post-install**
- Step 4** Click **Reconfigure**.
- Step 5** Click **Openstack Password**

Name	Description
CIMC_COMMON old Password	CIMC_COMMON old password field cannot be edited.
CIMC-COMMON new Password	Enter new CIMC-COMMON password. Password should be alphanumeric according to the password rule.
Click Update Password	Old CIMC-COMMON password will be updated with new CIMC-COMMON password.

Reconfiguring OpenStack Password

Cisco VIM has been designed with security to accommodate users password policy.

There are two options to regenerate the Password:

- 1. Regenerate all passwords:** Check the **Regenerate all passwords** checkbox and click **Set Password**. This automatically regenerates all passwords in alphanumeric format.
- 2. Regenerate single or more password:** If you want to set a specific password for any service like Horizon's ADMIN_USER_PASSWORD you can add it by doing an inline edit. Double click field under Password and then enter the password which enables **Set Password**.



Note During the reconfiguration of password, all other pod management activities are disabled. Postupdate, normal cloud management commences.

Reconfiguring OpenStack Services, TLS certs and ELK configurations

Cisco VIM supports the reconfiguration of OpenStack log level services, TLS certificates, and ELK configuration. Listed below are the steps to reconfigure the OpenStack and other services:

- Step 1** Login as **POD User**.
- Step 2** Naviagte to **POD**.
- Step 3** Navigate to **Post-install**
- Step 4** Click **Reconfigure OpenStack Config**.
- Step 5** Click on the specific item to be changed and updated; For TLS certificate it is the path to certificate location.

Step 6 Enter **Set Config** and the process will commence.

During the reconfiguration process, all other pod management activities will be disabled. Post-update, normal cloud management will commence.

Reconfiguring Optional Services

Cisco VIM offers optional services such as heat, migration to Keystone v3, NFVBench, NFVIMON and so on, that can be enabled as post-pod deployment. Optional services can be un-configured as post-deployment in Cisco VIM feature set. These services can be enabled in one-shot or selectively. Listed below are the steps to enable optional services:

Step 1 Login as **POD User**.

Step 2 Naviagte to **POD**.

Step 3 Navigate to **Post-install**

Step 4 Click **Reconfigure Optional Services**.

Step 5 Choose the right service and update the fields with the right values.

Step 6 Enter **Reconfigure** to commence the process.

During the reconfiguration process, all other pod management activities will be disabled. Post-update, normal cloud management will commence. Once reconfigure is initiated than optional feature would be updated in active blueprint. If reconfigure of Optional Services fail in the time of reconfigure process then it is advised to contact CiscoTAC to resolve the situation through CLI.

Note All reconfigure operation feature contains repeated deployment true or false.

- Repeated re-deployment true - Feature can be re-deployed again.
- Repeated re-deployment false- Deployment of feature allowed only once.

Deployment Status :

Optional Features	Repeated re-deployment Options
APICINFO	True
EXTERNAL_LB_VIP_FQDN	False
EXTERNAL_LB_VIP_TLS	False
INSTALL_MODE	True
LDAP	True
NETWORKING	True
NFVBENCH	False
NFVIMON	False

Optional Features	Repeated re-deployment Options
PODNAME	False
PROVIDER_VLAN_RANGES	True
SWIFTSTACK	True
SYSLOG_EXPORT_SETTINGS	False
TENANT_VLAN_RANGES	True
TORSWITCHINFO	False
VIM_ADMINIS	True
VMTP	False
VTS_PARAMETERS	False
AUTOBACKUP	True
Heat	False
Keystone v3	False
HTTP Proxy Server	True
HTTPS Proxy Server	True
Enable TTY LOGGING	False
MGMTNODE_EXTAPI_REACH	False

Pod User Administration

Cisco VIM Insight offers Users (Pod Admin(s) or Pod Users) to manage Users and roles associated with them.

Managing Users

To add new User

- Step 1** Click **Login as POD User**.
- Step 2** Navigate to **POD User Administration**.
- Step 3** Click **Manage Users**.
- Step 4** Click **Add Users** to add a new user.
- Step 5** Complete the following fields in the **Add Users** page of the Cisco VIM Insight:

Field Name	Field Description
Email ID	Enter the Email ID of the User.
User Name	Enter the User Name if the User is new. If the User is already registered to the Insight the User-Name gets auto-populated.
Role	Select the Role from the drop-down list.

Step 6 Click **Save**.

Managing Roles

To create a new Role:

Step 1 Click **Log in as POD User**.

Step 2 Navigate to **Pod User Administration** and click **Manage Roles**. By default you will see a full-pod-access role in the table.

Step 3 Click **Add Role** to create a new role.

Step 4 Complete the following fields on the **Add Roles** page in Cisco VIM Insight:

Field Name	Field Description
Role	Enter the name of the role.
Description	Enter the description of the role.
Permission	Check the Permission checkbox to select the permission.

Step 5 Click **Save**. Once, the Blueprint is in an Active state all the permissions are same for C-series and B-series Pods other than Reconfigure CIMC Password which is missing for B-series Pod.

Note Permissions are divided in the granular level where viewing *Dashboard* is the default role that is added while creating a role.

Managing Root CA Certificate

You can update the CA Certificate during the registration of the POD. Once, logged in as POD User and if you have the permission to update the certificate you can view under POD User Administration>> Manage Root CA Certificate.

To update the Certificate:

Step 1 Click **Login as POD User**

Step 2 Navigate to **POD User Administration>>Manage Root CA certificate**.

Step 3 Click **Browse** and select the certificate that you want to upload.

Step 4 Click **Upload**.

- If the certificate is Invalid, and does not matches with the certificate on the management node located at (var/www/mercury/mercury-ca.crt) then Insight will revert the certificate which was working previously.
- If the Certificate is valid, Insight will run a management node health check and then update the certificate with the latest one.

Note The CA Certificate which is uploaded should be same as the one which is in the management node.
