



Managing Blueprints

The following topics tell you how to manage Cisco NFVI Blueprints.

- [Blueprints](#), on page 1
- [Creating a Blueprint Using Upload Functionality](#), on page 2
- [Managing Post Install Features](#), on page 124

Blueprints

Blueprints contain the configuration metadata required to deploy an OpenStack system through a Cisco VIM pod in Cisco VIM Unified Management. You can create a blueprint in Cisco UM or you can upload a yaml file that contains the metadata for a blueprint. You can also create a blueprint from an existing OpenStack system that you are configuring as a Cisco VIM pod.

The configuration in the blueprint is specific to the type of Cisco UCS server that is in the OpenStack system. A blueprint for a C-Series server-based OpenStack system cannot be used to configure a B-Series server-based OpenStack system. Cisco UM displays an error if the blueprint does not match the configuration of the OpenStack system.

The blueprint enables you to quickly change the configuration of an OpenStack system. While only one blueprint can be active, you can create or upload multiple blueprints for a Cisco VIM pod. If you change the active blueprint for a pod, you have to update the configuration of the OpenStack system to match the new blueprint.



Note You can modify and validate an existing blueprint, or delete a blueprint. However, you cannot modify any of the configuration metadata in the active blueprint for a Cisco VIM pod.

Blueprint Activation

A blueprint becomes active when you use it in a successful installation for a Cisco VIM pod. Other blueprints that you created or uploaded to that pod are in nonactive state.

Uploading or creating a blueprint does not activate that blueprint for the pod. Install a blueprint through the **Cisco VIM Suite** wizard. If the installation is successful, the selected blueprint becomes active.



Note If you want to activate a new blueprint in an existing pod, you have to delete certain accounts and the credential policies for that pod before you activate the blueprint. See [Activating a Blueprint in an Existing Pod with OpenStack Installed, on page 3](#).

Viewing Blueprint Details

To view blueprint details:

-
- Step 1** Log in to Cisco VIM Unified Management as pod user.
 - Step 2** Choose the Cisco VIM pod with the blueprint that you want to view.
 - Step 3** Click **Menu** at the top left corner to expand the navigation pane.
 - Step 4** Choose **Pre-Install > Blueprint Management**.
 - Step 5** Choose a blueprint from the list.
 - Step 6** Click **Preview and Download YAML**.
-

Creating a Blueprint Using Upload Functionality

Before you begin

- You must have a YAML file (B series or C Series) on your system.
- Only one blueprint can be uploaded at a time. To create a blueprint off-line, refer to the `setup_data.yaml.B_Series_EXAMPLE` or `setup_data.yaml.C_Series_EXAMPLE`.
- The respective keys in the sample YAML have to match or the corresponding pane does not get populated during the upload.

-
- Step 1** Log in to **Cisco VIM UM**.
 - Step 2** In the navigation pane, expand the **Pre-Install** section and click **Blueprint** setup.
 - Step 3** Click the **Browse** in the **Blueprint Initial Setup**.
 - Step 4** Click **Select**.
 - Step 5** Click **Load** in the **Unified Management UI Application**.
All the fields present in the YAML file is uploaded to the respective fields in the UI.
 - Step 6** Provide a **Name for the Blueprint**.
While saving the blueprint name has to be unique.
 - Step 7** Click **Offline Validation**.

- If all the mandatory fields in the UI are populated, then Offline Validation of the Blueprint commences, or else a pop up message indicating the section of Blueprint creation that has missing information error shows up.

Step 8 On Offline Blueprint Validation being successful, **Save Blueprint** and **Cancel** is enabled.

Note If the Blueprint Validation Fails, only the **Cancel** button is enabled.

Activating a Blueprint in an Existing Pod with OpenStack Installed

Before you begin

You must have a POD which has an active Installation of OpenStack. If the OpenStack installation is in Failed State, then UM UI will not be able to fetch the Blueprint.

Step 1 Go to the **Landing page** of the UM Log in.

Step 2 Click **Register Management Node**.

Step 3 Enter the following details:

- Management Node IP Address.
- Management Node Name (Any friendly Name).
- REST API Password (/opt/cisco/ui_config.json).
- Description about the Management Node.
- POD Admin's Email ID.

A notification email is sent to the email id entered during registration.

Step 4 Log in using the same email id and password.

Step 5 In the navigation pane, click **Pre-Install > Blueprint Management**.

Choose the **NEWSETUPDATA** from the **Blueprint Management** pane.

This is the same setup data which was used by ciscovimclient, to run the installation on the Management Node.

Blueprint Management



Note You must have at least one blueprint (In any state Active or In-Active or In-progress), in the Blueprint Management Pane.

The screenshot shows the Cisco VIM Unified Management interface. The top navigation bar includes the Cisco logo, 'VIM Unified Management', the user's name 'Calsoft', IP address '10.30.116.244', role 'Full-Pod-Access', and user ID 'rohshar'. A notification bar indicates 'Press F11 to exit full screen'. The left sidebar contains navigation options: Dashboard, Pre-Install, Blueprint Setup (with sub-option 'Blueprint Management' selected), Post-Install, View Topology, and Pod User Administration. The main content area is titled 'Blueprints Management' and features a table with columns: Blueprint Title, Modified Date, Status, and Action. The table lists four blueprints: 'Test' (Invalid), '5555' (Invalid), 'NEWSETUPDATA' (Deployed), and '56646' (Invalid). Each row has an 'Action' column with icons for edit, delete, and download. A search bar and pagination controls are also visible.

Blueprint Title	Modified Date	Status	Action
Test	4/3/2018, 2:55:18 PM	Invalid	[Edit] [Delete] [Download]
5555	4/2/2018, 9:27:07 PM	Invalid	[Edit] [Delete] [Download]
NEWSETUPDATA	4/3/2018, 5:15:25 PM	Deployed	[Edit] [Delete] [Download]
56646	4/2/2018, 9:29:00 PM	Invalid	[Edit] [Delete] [Download]

Blueprint Management grid contains the list of all the blueprints that are saved. You can save the blueprint even if it is failed in the Blueprint Setup. However, you will not be allowed to deploy those Blueprints.

Blueprint Management table provides the following information:

- Blueprint Name
- Modified Date
- Edit, Remove, and Download Blueprint
- Search Blueprint

Blueprint Name: It shows the name of the Blueprint. You cannot edit this field. It shows the name of the blueprint that is saved after Offline Validation.



Note No two blueprints can have the same Blueprint name.

Modified Date: This shows when blueprint was last modified.

Blueprint Status: There are 6 total status for the Blueprint.

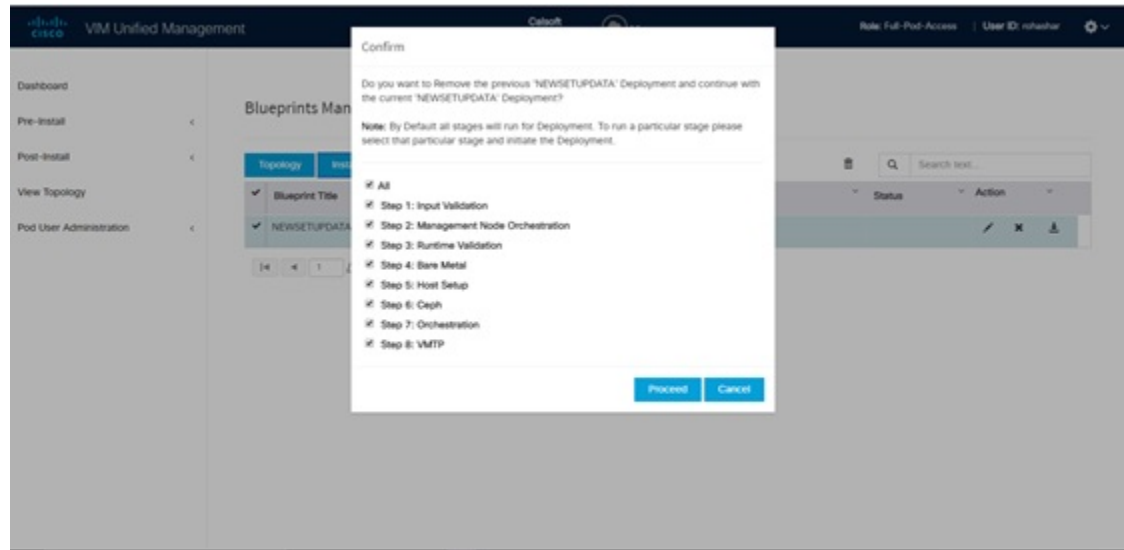
- Valid: Blueprint that is saved after offline validation success.
- Invalid: Blueprint that is saved after Offline Validation failure.
- Inprogress: Blueprint that is saved without running Offline Validation.
- Deployed: Blueprint that is used to bring up cloud without failures.
- Installing: Blueprint that is used to initiate the cloud deployment.

- Failed: Blueprint that is used to deploy the cloud which eventually failed.

With every blueprint record, there are some operations associated that you can perform by using the buttons – Topology, Install, and Remove.

Topology

Topology allows you to view graphical representation of the control, compute, and storage node that is associated with the various network segments.



Install Button

Click **Install**, a confirmation message is generated requesting to initiate the deployment with the stages you want to run. By default all stages are selected but you can also do an incremented install. In case of Incremented Install, you have to choose stages in the order. For Example: If you choose Validation Stage then the 2nd stage Management Node Orchestration is enabled. You cannot skip stages and run a deployment. Once you click **Proceed**, the Cloud Deployment is initiated and the progress can be viewed from the Dashboard.

Remove Button

Choose the blueprint and click **Remove** to remove the blueprint. A confirmation message appears. If you click **Proceed**, the blueprint removal operation is initiated.

Edit, Remove, and Download Blueprint

You can edit or delete a Blueprint which is not in Deployed State. If you want to take a backup of the Blueprint locally, click *Download* icon which generates the preview to download the Blueprint.

Following are the ways to deploy a Blueprint:

- If there is no Blueprint in Deployed state, then you can choose any Valid Blueprint from the list.
- If there is a Blueprint in a Failed state, you can choose another Valid Blueprint but Unified Management asks you to remove the previous deployment before proceeding.
- If there is a Blueprint in Deployed state, you can choose another Valid Blueprint but Unified Management asks you to remove the previous deployment before proceeding.

The deployment of Blueprint occurs stepwise and if any one step fails for some reason, a **Play** button is displayed on that particular step. You can click a **Play** button and begin the installation for that particular state.



Note There is always one blueprint in Deployed state. You cannot deploy multiple blueprints in the cloud.

Search Blueprint: Search box is displayed on top-right of the table which facilitates you to lookup for Blueprint by their name or status. Navigate to **Topology** and choose a Blueprint which redirects you to the default blueprint, the one which is selected in the Blueprint Management pane.



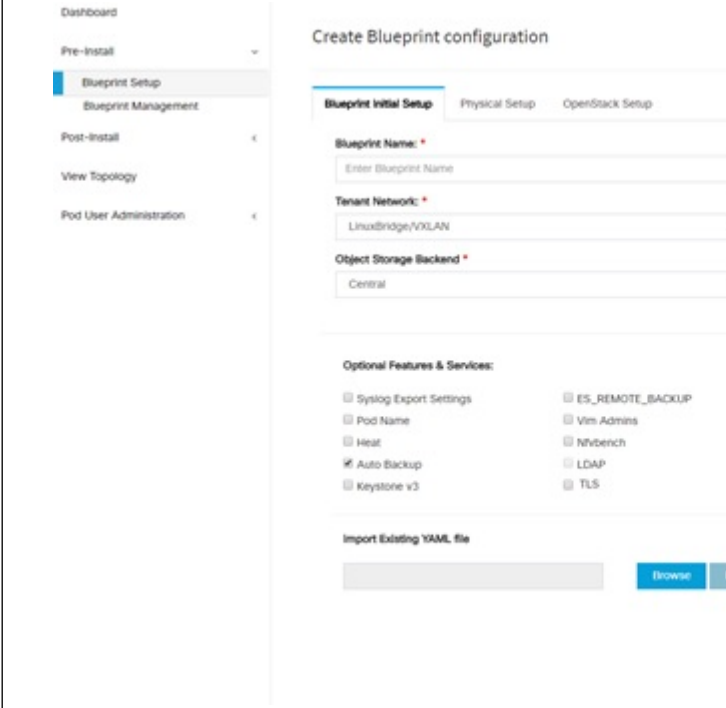
Note During the various operations across the application the cloud icon in the center of the header changes its color which is based on the following table.

Table 1:

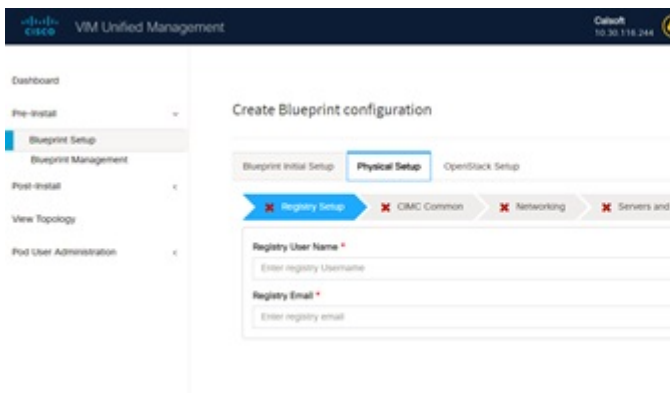
POD Operation	Status	Icon or Color
Management Node Registered, No Active Deployment	Pending	Gray
Cloud Up And Running, No Failure	Active	Green
Cloud Installation/ Any Operation In Progress	In-Progress	Blue
Cloudpulse Failed	Critical Warnings	Red
Pod Operation Failed	Warning	Amber
Software Update (Auto) Rollback Failed	Critical Warnings	Red
Uncommitted Software Update	Warning	Amber
Reconfigure Openstack Password	Critical Warning	Red
Reconfigure CIMC Password	Warning	Amber
Reconfigure Optional Features/ OS	Critical Warning	Red
Power Management Operation Fails	Warning	Amber
Management Not-Reachable	Not-Reachable	Red

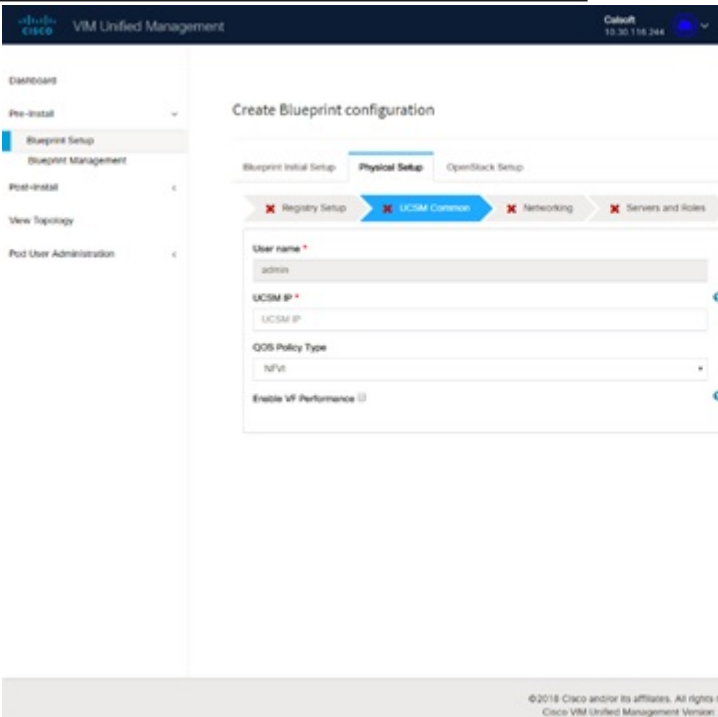
Creating a Blueprint for B-Series Server Platform

Procedure

	Command or Action	Purpose						
Step 1	In the navigation pane, choose Pre-Install > Blueprint Setup .							
Step 2	To create a B Series Blueprint :	<p>a. On the Blueprint Initial Setup pane of the Cisco VIM Unified Management, complete the following fields:</p>  <table border="1" data-bbox="941 1312 1526 1711"> <thead> <tr> <th>Name</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Blueprint Name field</td> <td>Enter blueprint configuration name.</td> </tr> <tr> <td>Platform Type drop-down list</td> <td>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 </td> </tr> </tbody> </table>	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
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 							

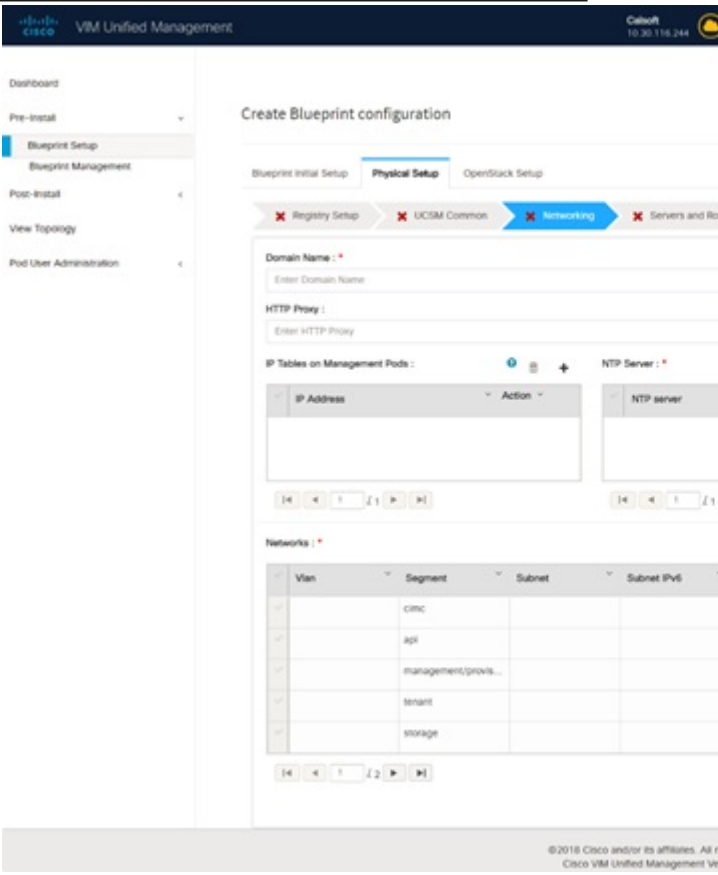
	Command or Action	Purpose			
		<table border="1"> <thead> <tr> <th data-bbox="857 275 1198 327">Name</th> <th data-bbox="1198 275 1494 327">Description</th> </tr> </thead> </table>	Name	Description	
Name	Description				
		<table border="1"> <tbody> <tr> <td data-bbox="857 327 1198 562"> Tenant Network drop-down list </td> <td data-bbox="1198 327 1494 562"> Choose one of the following tenant network types: <ul style="list-style-type: none"> • Linuxbridge/VXLAN • OVS/VLAN </td> </tr> </tbody> </table>	Tenant Network drop-down list	Choose one of the following tenant network types: <ul style="list-style-type: none"> • Linuxbridge/VXLAN • OVS/VLAN 	
Tenant Network drop-down list	Choose one of the following tenant network types: <ul style="list-style-type: none"> • Linuxbridge/VXLAN • OVS/VLAN 				
		<table border="1"> <tbody> <tr> <td data-bbox="857 562 1198 716"> Pod Type drop-down list </td> <td data-bbox="1198 562 1494 716"> Choose one of the following pod types: <ul style="list-style-type: none"> • Fullon(By Default) </td> </tr> </tbody> </table>	Pod Type drop-down list	Choose one of the following pod types: <ul style="list-style-type: none"> • Fullon(By Default) 	
Pod Type drop-down list	Choose one of the following pod types: <ul style="list-style-type: none"> • Fullon(By Default) 				
		<table border="1"> <tbody> <tr> <td data-bbox="857 716 1198 982"> Ceph Mode drop-down list </td> <td data-bbox="1198 716 1494 982"> Choose one of the following Ceph types: <ul style="list-style-type: none"> • Dedicated • Central (By Default) - Not supported in Production </td> </tr> </tbody> </table>	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 	
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 				
		<table border="1"> <tbody> <tr> <td data-bbox="857 982 1198 1293"> SSH Banner </td> <td data-bbox="1198 982 1494 1293"> An optional parameter <code>ssh_banner</code> is available in the <code>setup_data</code>, to accept a string or message that is to be displayed before the login prompt. This message indicates a warning consistent with a company's IT policies. </td> </tr> </tbody> </table>	SSH Banner	An optional parameter <code>ssh_banner</code> is available in the <code>setup_data</code> , to accept a string or message that is to be displayed before the login prompt. This message indicates a warning consistent with a company's IT policies.	
SSH Banner	An optional parameter <code>ssh_banner</code> is available in the <code>setup_data</code> , to accept a string or message that is to be displayed before the login prompt. This message indicates a warning consistent with a company's IT policies.				
		<table border="1"> <tbody> <tr> <td data-bbox="857 1293 1198 1824"> Optional Features and Services Checkbox </td> <td data-bbox="1198 1293 1494 1824"> LDAP, Syslog Export Settings, Install Mode, ToR Switch Information, TLS, NFVMON, Pod Name, VMTP, NFV Bench, Auto-backup, 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> </td> </tr> </tbody> </table>	Optional Features and Services Checkbox	LDAP, Syslog Export Settings, Install Mode, ToR Switch Information, TLS, NFVMON, Pod Name, VMTP, NFV Bench, Auto-backup, 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>	
Optional Features and Services Checkbox	LDAP, Syslog Export Settings, Install Mode, ToR Switch Information, TLS, NFVMON, Pod Name, VMTP, NFV Bench, Auto-backup, 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>				

	Command or Action	Purpose			
		<table border="1"> <thead> <tr> <th data-bbox="941 273 1234 325">Name</th> <th data-bbox="1234 273 1534 325">Description</th> </tr> </thead> </table>	Name	Description	
Name	Description				
		<table border="1"> <tbody> <tr> <td data-bbox="941 325 1234 787"> Import Existing YAML file </td> <td data-bbox="1234 325 1534 787"> 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. </td> </tr> </tbody> </table>	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.	
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.				
		<p>b. Click Physical Setup to navigate to the Registry Setup configuration page. Fill in the following details for Registry Setup:</p>			
					
		<table border="1"> <thead> <tr> <th data-bbox="941 1323 1234 1375">Name</th> <th data-bbox="1234 1323 1534 1375">Description</th> </tr> </thead> </table>	Name	Description	
Name	Description				
		<table border="1"> <tbody> <tr> <td data-bbox="941 1375 1234 1470"> Registry User Name text field </td> <td data-bbox="1234 1375 1534 1470"> Enter the User-Name for Registry (Mandatory). </td> </tr> </tbody> </table>	Registry User Name text field	Enter the User-Name for Registry (Mandatory).	
Registry User Name text field	Enter the User-Name for Registry (Mandatory).				
		<table border="1"> <tbody> <tr> <td data-bbox="941 1470 1234 1564"> Registry Password text field </td> <td data-bbox="1234 1470 1534 1564"> Enter the Password for Registry (Mandatory). </td> </tr> </tbody> </table>	Registry Password text field	Enter the Password for Registry (Mandatory).	
Registry Password text field	Enter the Password for Registry (Mandatory).				
		<table border="1"> <tbody> <tr> <td data-bbox="941 1564 1234 1648"> Registry Email text field </td> <td data-bbox="1234 1564 1534 1648"> Enter the Email ID for Registry (Mandatory). </td> </tr> </tbody> </table>	Registry Email text field	Enter the Email ID for Registry (Mandatory).	
Registry Email text field	Enter the Email ID for Registry (Mandatory).				
		<p>Once all mandatory fields are filled the Validation Check Registry Pane shows a Green Tick.</p>			
		<p>c. Click UCSM Common Tab and complete the following fields:</p>			

Command or Action	Purpose												
	 <table border="1" data-bbox="906 1014 1487 1654"> <thead> <tr> <th>Name</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>User name disabled field</td> <td>By default the value is Admin.</td> </tr> <tr> <td>Password text field</td> <td>Enter Password for UCSM Common (Mandatory).</td> </tr> <tr> <td>UCSM IP text field</td> <td>Enter IP Address for UCSM Common (Mandatory).</td> </tr> <tr> <td>Resource Prefix text field</td> <td>Enter the resource prefix(Mandatory).</td> </tr> <tr> <td>QOS Policy Type drop-down</td> <td>Choose one of the following types: <ul style="list-style-type: none"> • NFVI (Default) • Media </td> </tr> </tbody> </table>	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
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 												

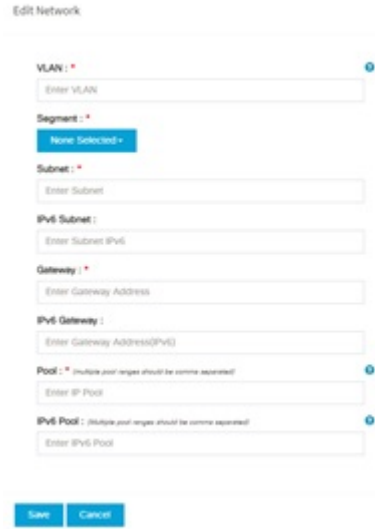
	Command or Action	Purpose	
		Name	Description
		Max VF Count text field	Select the Max VF Count. <1-54> Maximum VF count 54, default is 20. If VF performance is enabled we recommend you to keep MAX_VF_COUNT to 20 else may fail on some VICs like 1240.
		Enable VF Performance optional checkbox	Default is false. Set to true to apply adaptor policy at VF level.
		Enable Prov FI PIN optional checkbox	Default is false.
		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.

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

	Command or Action	Purpose												
		 <table border="1" data-bbox="906 1165 1487 1848"> <thead> <tr> <th data-bbox="906 1165 1198 1213">Name</th> <th data-bbox="1198 1165 1487 1213">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="906 1213 1198 1304">Domain Name field</td> <td data-bbox="1198 1213 1487 1304">Enter the domain name (Mandatory).</td> </tr> <tr> <td data-bbox="906 1304 1198 1455">HTTP Proxy Server field</td> <td data-bbox="1198 1304 1487 1455">If your configuration uses an HTTP proxy server, enter the IP address of the server.</td> </tr> <tr> <td data-bbox="906 1455 1198 1606">HTTPS Proxy Server field</td> <td data-bbox="1198 1455 1487 1606">If your configuration uses an HTTPS proxy server, enter the IP address of the server.</td> </tr> <tr> <td data-bbox="906 1606 1198 1696">IP Tables on Management Pods</td> <td data-bbox="1198 1606 1487 1696">Specifies the list of IP Address with Mask.</td> </tr> <tr> <td data-bbox="906 1696 1198 1848">NTP Server</td> <td data-bbox="1198 1696 1487 1848">Enter a maximum of four and minimum of one IPv4 and /or IPv6 addresses in the table.</td> </tr> </tbody> </table>	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 Server	Enter a maximum of four and minimum of one IPv4 and /or IPv6 addresses in the table.
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 Server	Enter a maximum of four and minimum of one IPv4 and /or IPv6 addresses in the table.													

	Command or Action	Purpose	
		Name	Description
		Domain Name Server	Enter a maximum of three and minimum of one IPv4 and/or IPv6 addresses.

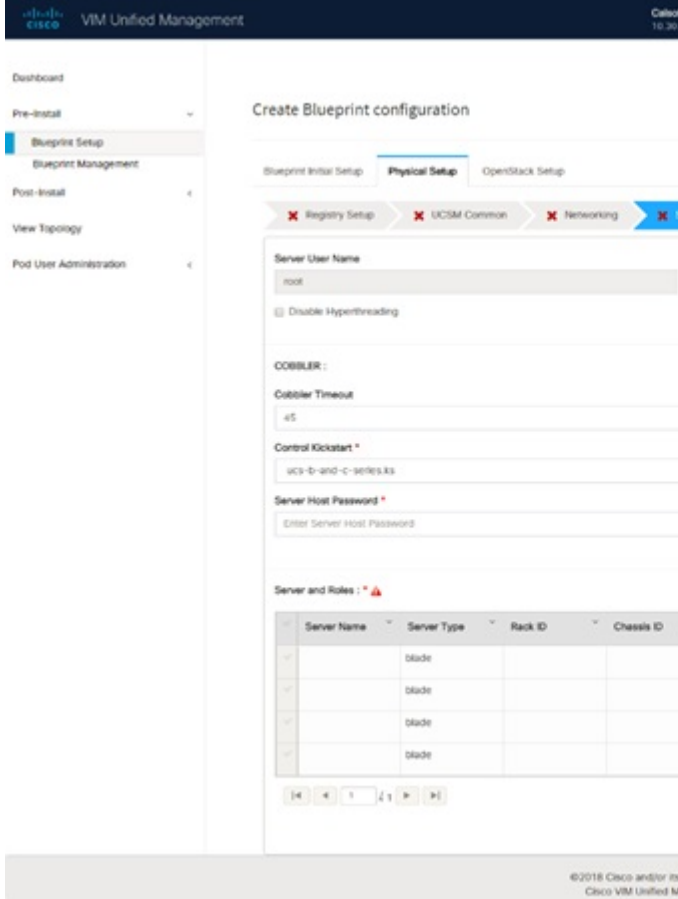
	Command or Action	Purpose	
		Name	Description
		Network table	

	Command or Action	Purpose					
		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" data-bbox="1242 1554 1526 1848"> <thead> <tr> <th data-bbox="1242 1554 1380 1606">Name</th> <th data-bbox="1380 1554 1526 1606">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="1242 1606 1380 1848">VLAN field</td> <td data-bbox="1380 1606 1526 1848">Enter the VLAN ID. For Segment - Provider, the VLAN ID value is</td> </tr> </tbody> </table>	Name	Description	VLAN field	Enter the VLAN ID. For Segment - Provider, the VLAN ID value is
Name	Description						
VLAN field	Enter the VLAN ID. For Segment - Provider, the VLAN ID value is						

	Command or Action	Purpose											
		Name	Description										
			<table border="1"> <thead> <tr> <th data-bbox="1200 327 1349 373">Name</th> <th data-bbox="1349 327 1487 373">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="1200 373 1349 457"></td> <td data-bbox="1349 373 1487 457">always <i>none.</i></td> </tr> <tr> <td data-bbox="1200 457 1349 1493"> Segment drop-down list </td> <td data-bbox="1349 457 1487 1493"> You can select any one segment from the drop-down list. <ul style="list-style-type: none"> • API • Management • Tenant • CIMC • Storage • External • Provider (optional) <p>Note Some segments do not need some of the values listed in the preceding points.</p> </td> </tr> <tr> <td data-bbox="1200 1493 1349 1644"> Subnet field </td> <td data-bbox="1349 1493 1487 1644">Enter the IPv4 address for the subnet.</td> </tr> <tr> <td data-bbox="1200 1644 1349 1764"> IPv6 Subnet field </td> <td data-bbox="1349 1644 1487 1764"></td> </tr> </tbody> </table>	Name	Description		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 • Tenant • CIMC • Storage • External • 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	
Name	Description												
	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 • Tenant • CIMC • Storage • External • 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													

	Command or Action	Purpose		
		Name	Description	
			Name	Description
				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	

	Command or Action	Purpose										
		<table border="1"> <thead> <tr> <th data-bbox="854 275 1198 327">Name</th> <th colspan="2" data-bbox="1198 275 1494 327">Description</th> </tr> <tr> <td data-bbox="854 327 1198 884"></td> <th data-bbox="1198 327 1349 380">Name</th> <th data-bbox="1349 327 1494 380">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="854 380 1198 884"></td> <td data-bbox="1198 380 1349 821"></td> <td data-bbox="1349 380 1494 821"> Enter the pool information in the following format. For example: CISCO025010 This field is only available for the Mgmt Provision </td> </tr> </tbody> </table>	Name	Description			Name	Description			Enter the pool information in the following format. For example: CISCO025010 This field is only available for the Mgmt Provision	<p>Click Save.</p>
Name	Description											
	Name	Description										
		Enter the pool information in the following format. For example: CISCO025010 This field is only available for the Mgmt Provision										
		<p>e. 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.</p>										

	Command or Action	Purpose										
		 <table border="1" data-bbox="941 1197 1526 1596"> <thead> <tr> <th>Name</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Server User Name field</td> <td>Enter the username of the server.</td> </tr> <tr> <td>Disable Hyperthreading</td> <td>Default value is false. You can set it as true or false.</td> </tr> <tr> <td>Vendor</td> <td>Set vendor type at the global level</td> </tr> <tr> <td>Roles</td> <td>Set Vendor type at per role level in the roles table</td> </tr> </tbody> </table>	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.	Vendor	Set vendor type at the global level	Roles	Set Vendor type at per role level in the roles table
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.											
Vendor	Set vendor type at the global level											
Roles	Set Vendor type at per role level in the roles table											

	Command or Action	Purpose	
		Name	Description
		Cobbler	

	Command or Action	Purpose																		
		<table border="1"> <thead> <tr> <th data-bbox="889 275 1235 323">Name</th> <th data-bbox="1235 275 1534 323">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="889 323 1235 1860"></td> <td data-bbox="1235 323 1534 405"> Enter the Cobbler details in the following fields: </td> </tr> <tr> <td data-bbox="889 405 1235 919"> <table border="1"> <thead> <tr> <th data-bbox="889 405 1235 464">Name</th> <th data-bbox="1235 405 1534 464">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="889 464 1235 919"> Cobbler Timeout field </td> <td data-bbox="1235 464 1534 919"> 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="889 919 1235 1073"> Block Storage Kickstart field </td> <td data-bbox="1235 919 1534 1073"> Kickstart file for Storage Node. </td> </tr> <tr> <td data-bbox="889 1073 1235 1577"> Admin Password Hash field </td> <td data-bbox="1235 1073 1534 1577"> 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="889 1577 1235 1787"> Cobbler Username field </td> <td data-bbox="1235 1577 1534 1787"> Enter the cobbler username to access the cobbler server. </td> </tr> <tr> <td data-bbox="889 1787 1235 1860"> Control Kickstart </td> <td data-bbox="1235 1787 1534 1860"> Kickstart file for </td> </tr> </tbody> </table> </td> <td data-bbox="1235 405 1534 1860"></td> </tr> </tbody> </table>	Name	Description		Enter the Cobbler details in the following fields:	<table border="1"> <thead> <tr> <th data-bbox="889 405 1235 464">Name</th> <th data-bbox="1235 405 1534 464">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="889 464 1235 919"> Cobbler Timeout field </td> <td data-bbox="1235 464 1534 919"> 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="889 919 1235 1073"> Block Storage Kickstart field </td> <td data-bbox="1235 919 1534 1073"> Kickstart file for Storage Node. </td> </tr> <tr> <td data-bbox="889 1073 1235 1577"> Admin Password Hash field </td> <td data-bbox="1235 1073 1534 1577"> 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="889 1577 1235 1787"> Cobbler Username field </td> <td data-bbox="1235 1577 1534 1787"> Enter the cobbler username to access the cobbler server. </td> </tr> <tr> <td data-bbox="889 1787 1235 1860"> Control Kickstart </td> <td data-bbox="1235 1787 1534 1860"> Kickstart file for </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	Kickstart file for	
Name	Description																			
	Enter the Cobbler details in the following fields:																			
<table border="1"> <thead> <tr> <th data-bbox="889 405 1235 464">Name</th> <th data-bbox="1235 405 1534 464">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="889 464 1235 919"> Cobbler Timeout field </td> <td data-bbox="1235 464 1534 919"> 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="889 919 1235 1073"> Block Storage Kickstart field </td> <td data-bbox="1235 919 1534 1073"> Kickstart file for Storage Node. </td> </tr> <tr> <td data-bbox="889 1073 1235 1577"> Admin Password Hash field </td> <td data-bbox="1235 1073 1534 1577"> 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="889 1577 1235 1787"> Cobbler Username field </td> <td data-bbox="1235 1577 1534 1787"> Enter the cobbler username to access the cobbler server. </td> </tr> <tr> <td data-bbox="889 1787 1235 1860"> Control Kickstart </td> <td data-bbox="1235 1787 1534 1860"> Kickstart file for </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	Kickstart file for								
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	Kickstart file for																			

	Command or Action	Purpose									
		Name	Description								
			<table border="1"> <thead> <tr> <th data-bbox="1198 327 1349 380">Name</th> <th data-bbox="1349 327 1494 380">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="1198 380 1349 464">field</td> <td data-bbox="1349 380 1494 464">Control Node.</td> </tr> <tr> <td data-bbox="1198 464 1349 621">Compute Kickstart field</td> <td data-bbox="1349 464 1494 621">Kickstart file for Compute Node.</td> </tr> <tr> <td data-bbox="1198 621 1349 787">Cobbler Admin Username field</td> <td data-bbox="1349 621 1494 787">Enter the admin username of the Cobbler.</td> </tr> </tbody> </table>	Name	Description	field	Control Node.	Compute Kickstart field	Kickstart file for Compute Node.	Cobbler Admin Username field	Enter the admin username of the Cobbler.
Name	Description										
field	Control Node.										
Compute Kickstart field	Kickstart file for Compute Node.										
Cobbler Admin Username field	Enter the admin username of the Cobbler.										

	Command or Action	Purpose	
		Name	Description
		Add Entry to Servers and Roles	

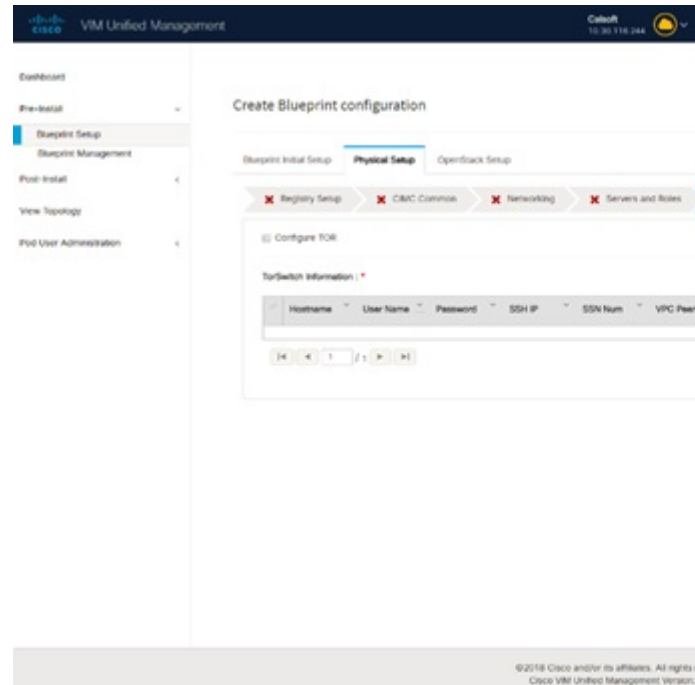
	Command or Action	Purpose														
		<table border="1"> <thead> <tr> <th data-bbox="854 275 1198 323">Name</th> <th data-bbox="1198 275 1494 323">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="854 323 1198 1869"></td> <td data-bbox="1198 323 1494 1869"> <p>Click Edit or + to add a new server and role to the table.</p> <div data-bbox="1214 457 1333 478">Server And Roles</div> <div data-bbox="1247 533 1333 554">Server Name *</div> <input data-bbox="1255 562 1620 583" type="text"/> <div data-bbox="1247 604 1300 625">VIC Slot</div> <input data-bbox="1255 634 1620 655" type="text"/> <div data-bbox="1247 676 1300 697">CIMC IP *</div> <input data-bbox="1255 705 1620 726" type="text"/> <div data-bbox="1247 747 1349 768">CIMC User Name</div> <input data-bbox="1255 777 1620 798" type="text"/> <div data-bbox="1247 819 1333 840">CIMC Password</div> <input data-bbox="1255 848 1620 869" type="text"/> <div data-bbox="1247 890 1300 911">Rack ID *</div> <input data-bbox="1255 919 1620 940" type="text"/> <div data-bbox="1247 961 1284 982">Role *</div> <input data-bbox="1255 991 1620 1012" type="text"/> <div data-bbox="1247 1033 1333 1054">Management IP</div> <input data-bbox="1255 1062 1620 1083" type="text"/> <div data-bbox="1247 1104 1349 1125">Management IPv6</div> <input data-bbox="1255 1134 1620 1155" type="text"/> <div data-bbox="1219 1222 1360 1243"> <input type="button" value="Save"/> <input type="button" value="Cancel"/> </div> <table border="1"> <tbody> <tr> <td data-bbox="1208 1285 1344 1398">Server Name</td> <td data-bbox="1351 1285 1487 1398">Enter a server name.</td> </tr> <tr> <td data-bbox="1208 1407 1344 1612">Server Type drop-down list</td> <td data-bbox="1351 1407 1487 1612">Choose Blade or Rack from the drop-down list.</td> </tr> <tr> <td data-bbox="1208 1621 1344 1734">Rack ID</td> <td data-bbox="1351 1621 1487 1734">The Rack ID for the server.</td> </tr> <tr> <td data-bbox="1208 1743 1344 1835">Chassis ID</td> <td data-bbox="1351 1743 1487 1835">Enter a Chassis ID.</td> </tr> <tr> <td data-bbox="1208 1843 1344 1869">If Rack is</td> <td data-bbox="1351 1843 1487 1869">Enter a</td> </tr> </tbody> </table> </td></tr></tbody></table>	Name	Description		<p>Click Edit or + to add a new server and role to the table.</p> <div data-bbox="1214 457 1333 478">Server And Roles</div> <div data-bbox="1247 533 1333 554">Server Name *</div> <input data-bbox="1255 562 1620 583" type="text"/> <div data-bbox="1247 604 1300 625">VIC Slot</div> <input data-bbox="1255 634 1620 655" type="text"/> <div data-bbox="1247 676 1300 697">CIMC IP *</div> <input data-bbox="1255 705 1620 726" type="text"/> <div data-bbox="1247 747 1349 768">CIMC User Name</div> <input data-bbox="1255 777 1620 798" type="text"/> <div data-bbox="1247 819 1333 840">CIMC Password</div> <input data-bbox="1255 848 1620 869" type="text"/> <div data-bbox="1247 890 1300 911">Rack ID *</div> <input data-bbox="1255 919 1620 940" type="text"/> <div data-bbox="1247 961 1284 982">Role *</div> <input data-bbox="1255 991 1620 1012" type="text"/> <div data-bbox="1247 1033 1333 1054">Management IP</div> <input data-bbox="1255 1062 1620 1083" type="text"/> <div data-bbox="1247 1104 1349 1125">Management IPv6</div> <input data-bbox="1255 1134 1620 1155" type="text"/> <div data-bbox="1219 1222 1360 1243"> <input type="button" value="Save"/> <input type="button" value="Cancel"/> </div> <table border="1"> <tbody> <tr> <td data-bbox="1208 1285 1344 1398">Server Name</td> <td data-bbox="1351 1285 1487 1398">Enter a server name.</td> </tr> <tr> <td data-bbox="1208 1407 1344 1612">Server Type drop-down list</td> <td data-bbox="1351 1407 1487 1612">Choose Blade or Rack from the drop-down list.</td> </tr> <tr> <td data-bbox="1208 1621 1344 1734">Rack ID</td> <td data-bbox="1351 1621 1487 1734">The Rack ID for the server.</td> </tr> <tr> <td data-bbox="1208 1743 1344 1835">Chassis ID</td> <td data-bbox="1351 1743 1487 1835">Enter a Chassis ID.</td> </tr> <tr> <td data-bbox="1208 1843 1344 1869">If Rack is</td> <td data-bbox="1351 1843 1487 1869">Enter a</td> </tr> </tbody> </table>	Server Name	Enter a server name.	Server Type drop-down list	Choose Blade or Rack from the drop-down list.	Rack ID	The Rack ID for the server.	Chassis ID	Enter a Chassis ID.	If Rack is	Enter a
Name	Description															
	<p>Click Edit or + to add a new server and role to the table.</p> <div data-bbox="1214 457 1333 478">Server And Roles</div> <div data-bbox="1247 533 1333 554">Server Name *</div> <input data-bbox="1255 562 1620 583" type="text"/> <div data-bbox="1247 604 1300 625">VIC Slot</div> <input data-bbox="1255 634 1620 655" type="text"/> <div data-bbox="1247 676 1300 697">CIMC IP *</div> <input data-bbox="1255 705 1620 726" type="text"/> <div data-bbox="1247 747 1349 768">CIMC User Name</div> <input data-bbox="1255 777 1620 798" type="text"/> <div data-bbox="1247 819 1333 840">CIMC Password</div> <input data-bbox="1255 848 1620 869" type="text"/> <div data-bbox="1247 890 1300 911">Rack ID *</div> <input data-bbox="1255 919 1620 940" type="text"/> <div data-bbox="1247 961 1284 982">Role *</div> <input data-bbox="1255 991 1620 1012" type="text"/> <div data-bbox="1247 1033 1333 1054">Management IP</div> <input data-bbox="1255 1062 1620 1083" type="text"/> <div data-bbox="1247 1104 1349 1125">Management IPv6</div> <input data-bbox="1255 1134 1620 1155" type="text"/> <div data-bbox="1219 1222 1360 1243"> <input type="button" value="Save"/> <input type="button" value="Cancel"/> </div> <table border="1"> <tbody> <tr> <td data-bbox="1208 1285 1344 1398">Server Name</td> <td data-bbox="1351 1285 1487 1398">Enter a server name.</td> </tr> <tr> <td data-bbox="1208 1407 1344 1612">Server Type drop-down list</td> <td data-bbox="1351 1407 1487 1612">Choose Blade or Rack from the drop-down list.</td> </tr> <tr> <td data-bbox="1208 1621 1344 1734">Rack ID</td> <td data-bbox="1351 1621 1487 1734">The Rack ID for the server.</td> </tr> <tr> <td data-bbox="1208 1743 1344 1835">Chassis ID</td> <td data-bbox="1351 1743 1487 1835">Enter a Chassis ID.</td> </tr> <tr> <td data-bbox="1208 1843 1344 1869">If Rack is</td> <td data-bbox="1351 1843 1487 1869">Enter a</td> </tr> </tbody> </table>	Server Name	Enter a server name.	Server Type drop-down list	Choose Blade or Rack from the drop-down list.	Rack ID	The Rack ID for the server.	Chassis ID	Enter a Chassis ID.	If Rack is	Enter a					
Server Name	Enter a server name.															
Server Type drop-down list	Choose Blade or Rack from the drop-down list.															
Rack ID	The Rack ID for the server.															
Chassis ID	Enter a Chassis ID.															
If Rack is	Enter a															

	Command or Action	Purpose	
		Name	Description
			chosen, the Rack Unit ID field is displayed. Rack Unit ID.
			If Blade is chosen, the Blade ID field is displayed. Enter a Blade ID.
			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 .
			VIC Admin FEC mode Applicable only for Cisco VIC that supports to change the admin FEC mode. Can be auto/off/4/91.
			VIC Port Channel Enable Optional. By default, it is true. Can be either true or false.
			Secure Computing mode Optional, it can be either 0 or 1. By default, it is 1 if not defined.

	Command or Action	Purpose	
		Name	Description
		Nova CPU Allocation Ratio	Optional, override the <code>NOVA_CPU_RATIO</code> configuration defined in <code>nova.conf</code> . Values are in the range of 0.958 to 16.0
		Nova RAM Allocation Ratio	Optional, overrides the <code>NOVA_RAM_RATIO</code> configuration defined in <code>nova.conf</code> . Values are in the range of 1.0 to 4.0
		VM Hugepage Size	Optional, 2M or 1G. Overrides the global <code>VM_HUGEPAGE_SIZE</code> value, when <code>NFV_HOSTS</code> is enabled.
		Management IP	It is an optional field but if provided for one server then it is mandatory to provide details for other servers.
		Storage IP	

Command or Action	Purpose	
	Name	Description
		It is an optional field, but if provided for one server then it is mandatory to provide details for other servers.
	Management IPv6	Enter the Management IPv6 Address.
	Click Save .	

- f. 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.



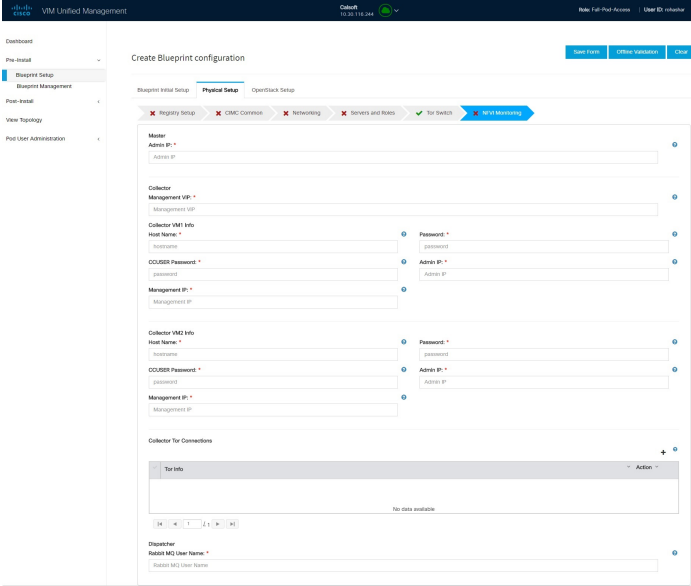
	Command or Action	Purpose	
		Name	Description
		Configure ToR optional checkbox.	Enabling this checkbox, changes the configure ToR section from false to true.

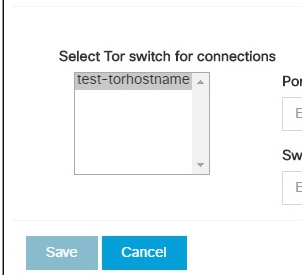
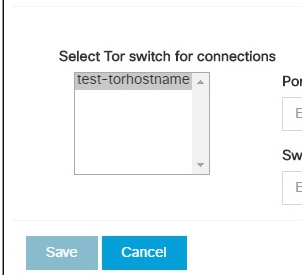
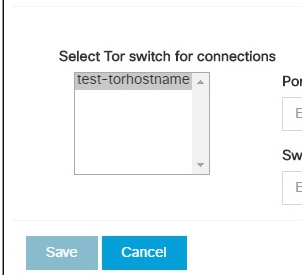
	Command or Action	Purpose	
		Name	Description
		ToR Switch Information mandatory table.	

	Command or Action	Purpose															
		<table border="1"> <thead> <tr> <th data-bbox="854 275 1179 323">Name</th> <th data-bbox="1179 275 1494 323">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="854 323 1179 1843"></td> <td data-bbox="1179 323 1494 1843"> <p>Click (+) to add information for ToR Switch.</p> <p>Switch Details</p> <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>Save Cancel</p> <table border="1"> <thead> <tr> <th data-bbox="1179 1444 1334 1501">Name</th> <th data-bbox="1334 1444 1494 1501">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="1179 1501 1334 1591">Hostname</td> <td data-bbox="1334 1501 1494 1591">ToR switch hostname.</td> </tr> <tr> <td data-bbox="1179 1591 1334 1682">Username</td> <td data-bbox="1334 1591 1494 1682">ToR switch username.</td> </tr> <tr> <td data-bbox="1179 1682 1334 1772">Password</td> <td data-bbox="1334 1682 1494 1772">ToR switch password.</td> </tr> <tr> <td data-bbox="1179 1772 1334 1843">SSH IP</td> <td data-bbox="1334 1772 1494 1843">ToR switch SSH IP</td> </tr> </tbody> </table> </td> </tr> </tbody> </table>	Name	Description		<p>Click (+) to add information for ToR Switch.</p> <p>Switch Details</p> <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>Save Cancel</p> <table border="1"> <thead> <tr> <th data-bbox="1179 1444 1334 1501">Name</th> <th data-bbox="1334 1444 1494 1501">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="1179 1501 1334 1591">Hostname</td> <td data-bbox="1334 1501 1494 1591">ToR switch hostname.</td> </tr> <tr> <td data-bbox="1179 1591 1334 1682">Username</td> <td data-bbox="1334 1591 1494 1682">ToR switch username.</td> </tr> <tr> <td data-bbox="1179 1682 1334 1772">Password</td> <td data-bbox="1334 1682 1494 1772">ToR switch password.</td> </tr> <tr> <td data-bbox="1179 1772 1334 1843">SSH IP</td> <td data-bbox="1334 1772 1494 1843">ToR switch SSH IP</td> </tr> </tbody> </table>	Name	Description	Hostname	ToR switch hostname.	Username	ToR switch username.	Password	ToR switch password.	SSH IP	ToR switch SSH IP	
Name	Description																
	<p>Click (+) to add information for ToR Switch.</p> <p>Switch Details</p> <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>Save Cancel</p> <table border="1"> <thead> <tr> <th data-bbox="1179 1444 1334 1501">Name</th> <th data-bbox="1334 1444 1494 1501">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="1179 1501 1334 1591">Hostname</td> <td data-bbox="1334 1501 1494 1591">ToR switch hostname.</td> </tr> <tr> <td data-bbox="1179 1591 1334 1682">Username</td> <td data-bbox="1334 1591 1494 1682">ToR switch username.</td> </tr> <tr> <td data-bbox="1179 1682 1334 1772">Password</td> <td data-bbox="1334 1682 1494 1772">ToR switch password.</td> </tr> <tr> <td data-bbox="1179 1772 1334 1843">SSH IP</td> <td data-bbox="1334 1772 1494 1843">ToR switch SSH IP</td> </tr> </tbody> </table>	Name	Description	Hostname	ToR switch hostname.	Username	ToR switch username.	Password	ToR switch password.	SSH IP	ToR switch SSH IP						
Name	Description																
Hostname	ToR switch hostname.																
Username	ToR switch username.																
Password	ToR switch password.																
SSH IP	ToR switch SSH IP																

	Command or Action	Purpose				
		<table border="1"> <thead> <tr> <th data-bbox="889 273 1214 325">Name</th> <th data-bbox="1214 273 1534 325">Description</th> </tr> </thead> </table>	Name	Description		
Name	Description					
			Address.			
		<table border="1"> <tr> <td data-bbox="889 378 1214 462">SSN Num</td> <td data-bbox="1214 378 1534 462">ToR switch ssn num.</td> </tr> </table>	SSN Num	ToR switch ssn num.		
SSN Num	ToR switch ssn num.					
		<table border="1"> <tr> <td data-bbox="889 462 1214 682">VPC Peer Keepalive</td> <td data-bbox="1214 462 1534 682">Peer Management IP. You do not define if there is no peer.</td> </tr> </table>	VPC Peer Keepalive	Peer Management IP. You do not define if there is no peer.		
VPC Peer Keepalive	Peer Management IP. You do not define if there is no peer.					
		<table border="1"> <tr> <td data-bbox="889 682 1214 798">VPC Domain</td> <td data-bbox="1214 682 1534 798">Do not define if peer is absent.</td> </tr> </table>	VPC Domain	Do not define if peer is absent.		
VPC Domain	Do not define if peer is absent.					
		<table border="1"> <tr> <td data-bbox="889 798 1214 913">VPC Peer Port Info</td> <td data-bbox="1214 798 1534 913">Interface for vpc peer ports.</td> </tr> </table>	VPC Peer Port Info	Interface for vpc peer ports.		
VPC Peer Port Info	Interface for vpc peer ports.					
		<table border="1"> <tr> <td data-bbox="889 913 1214 1102">BR Management Port Info</td> <td data-bbox="1214 913 1534 1102">Management interface of the management node.</td> </tr> </table>	BR Management Port Info	Management interface of the management node.		
BR Management Port Info	Management interface of the management node.					
		<table border="1"> <tr> <td data-bbox="889 1102 1214 1354">BR Management PO Info</td> <td data-bbox="1214 1102 1534 1354">Port channel number for management interface of the management node.</td> </tr> </table>	BR Management PO Info	Port channel number for management interface of the management node.		
BR Management PO Info	Port channel number for management interface of the management node.					
		ClickSave.				
		<table border="1"> <tr> <td data-bbox="889 1417 1214 1564">On clicking save button, Add ToR Info Connected to Fabric field is visible.</td> <td data-bbox="1214 1417 1534 1564">Port Channel field.</td> <td data-bbox="1214 1417 1534 1564">Enter the Port Channel input.</td> </tr> </table>	On clicking save button, Add ToR Info Connected to Fabric field is visible.	Port Channel field.	Enter the Port Channel input.	
On clicking save button, Add ToR Info Connected to Fabric field is visible.	Port Channel field.	Enter the Port Channel input.				
		<table border="1"> <tr> <td data-bbox="889 1564 1214 1690"></td> <td data-bbox="1214 1564 1534 1690">Switch Name field.</td> <td data-bbox="1214 1564 1534 1690">Enter the name of the Switch.</td> </tr> </table>		Switch Name field.	Enter the name of the Switch.	
	Switch Name field.	Enter the name of the Switch.				

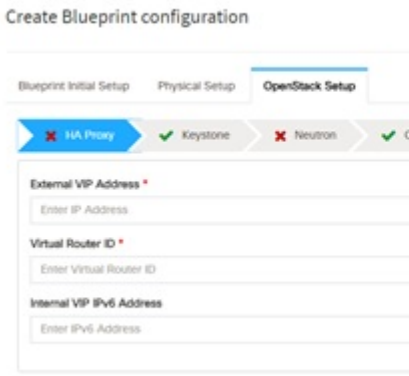
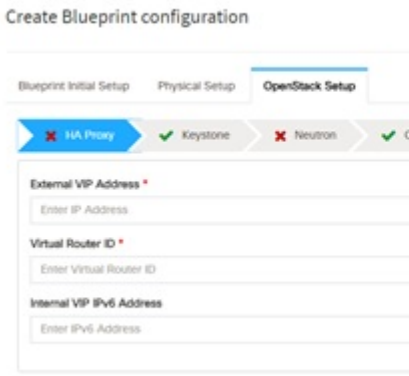
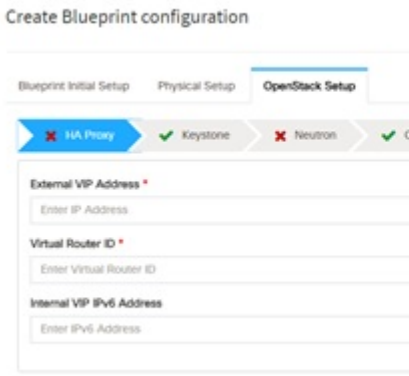
g. Click **NFVI Monitoring** checkbox in Blueprint Initial Setup to enable the NFVI Monitoring configuration tab.

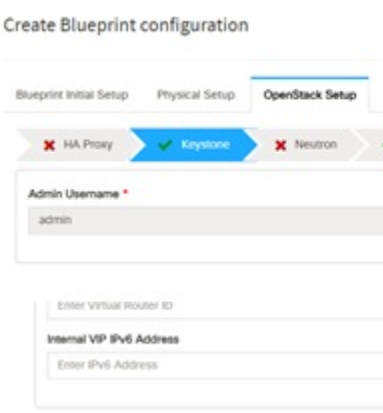
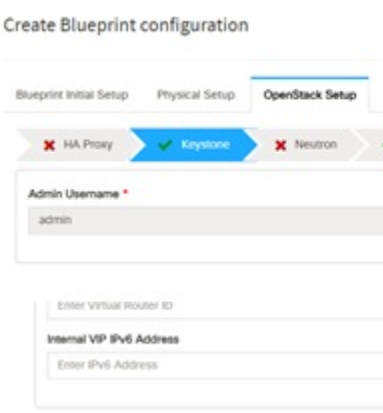
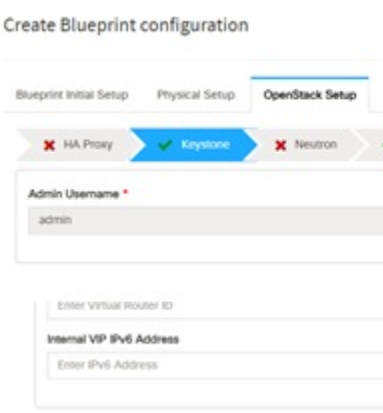
Command or Action	Purpose
	
<p>Name</p>	<p>Description</p>
<p>Admin IP</p>	<p>IP Address of Control Center VM</p>
<p>Management VIP</p>	<p>VIP for ceilometer/dispatcher to use, must be unique across VIM Pod</p>
<p>Host Name</p>	<p>Hostname of Collector VM</p>
<p>Password</p>	<p>Password of Collector VM</p>
<p>CCUSER Password</p>	<p>Password of CCUSER</p>
<p>Admin IP</p>	<p>SSH IP of Collector VM</p>
<p>Management IP</p>	<p>Management IP of Collector VM</p>
<p>Master 2</p>	<p>Optional, but becomes mandatory if collector 2 is defined. Must contain valid Admin IP.</p>

	Command or Action	Purpose							
		<table border="1"> <thead> <tr> <th data-bbox="889 275 1234 331">Name</th> <th data-bbox="1234 275 1534 331">Description</th> </tr> </thead> </table>	Name	Description					
Name	Description								
		<table border="1"> <tbody> <tr> <td data-bbox="889 331 1234 661">Collector 2</td> <td data-bbox="1234 331 1534 661"> Optional, but becomes mandatory if Master 2 is defined. Collector 2 is secondary set to collector and with all the properties of Collector. Contains Management VIP and Collector VM information. </td> </tr> </tbody> </table>	Collector 2	Optional, but becomes mandatory if Master 2 is defined. Collector 2 is secondary set to collector and with all the properties of Collector. Contains Management VIP and Collector VM information.					
Collector 2	Optional, but becomes mandatory if Master 2 is defined. Collector 2 is secondary set to collector and with all the properties of Collector. Contains Management VIP and Collector VM information.								
		<table border="1"> <tbody> <tr> <td data-bbox="889 661 1234 1801">Collector ToR Connections</td> <td data-bbox="1234 661 1534 1801"> <ol style="list-style-type: none"> Click on (+) icon to Add Collector ToR Connections. Select the ToR switches from list to add the information. It is optional and available for ToR type NCS-5500 For now, it supports adding only one Collector ToR Connection <p>Add Collector Tor Connections</p>  <table border="1"> <tbody> <tr> <td data-bbox="1234 1533 1380 1617">Port Channel</td> <td data-bbox="1380 1533 1534 1617">Enter port channel.</td> </tr> <tr> <td data-bbox="1234 1617 1380 1722">Switch - test-torhostname</td> <td data-bbox="1380 1617 1534 1722">Enter port number, E.g:eth1/15.</td> </tr> </tbody> </table> <p>Click Save</p> </td> </tr> </tbody> </table>	Collector ToR Connections	<ol style="list-style-type: none"> Click on (+) icon to Add Collector ToR Connections. Select the ToR switches from list to add the information. It is optional and available for ToR type NCS-5500 For now, it supports adding only one Collector ToR Connection <p>Add Collector Tor Connections</p>  <table border="1"> <tbody> <tr> <td data-bbox="1234 1533 1380 1617">Port Channel</td> <td data-bbox="1380 1533 1534 1617">Enter port channel.</td> </tr> <tr> <td data-bbox="1234 1617 1380 1722">Switch - test-torhostname</td> <td data-bbox="1380 1617 1534 1722">Enter port number, E.g:eth1/15.</td> </tr> </tbody> </table> <p>Click Save</p>	Port Channel	Enter port channel.	Switch - test-torhostname	Enter port number, E.g:eth1/15.	
Collector ToR Connections	<ol style="list-style-type: none"> Click on (+) icon to Add Collector ToR Connections. Select the ToR switches from list to add the information. It is optional and available for ToR type NCS-5500 For now, it supports adding only one Collector ToR Connection <p>Add Collector Tor Connections</p>  <table border="1"> <tbody> <tr> <td data-bbox="1234 1533 1380 1617">Port Channel</td> <td data-bbox="1380 1533 1534 1617">Enter port channel.</td> </tr> <tr> <td data-bbox="1234 1617 1380 1722">Switch - test-torhostname</td> <td data-bbox="1380 1617 1534 1722">Enter port number, E.g:eth1/15.</td> </tr> </tbody> </table> <p>Click Save</p>	Port Channel	Enter port channel.	Switch - test-torhostname	Enter port number, E.g:eth1/15.				
Port Channel	Enter port channel.								
Switch - test-torhostname	Enter port number, E.g:eth1/15.								

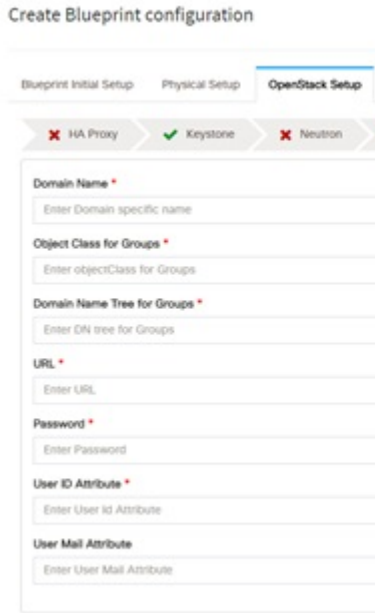
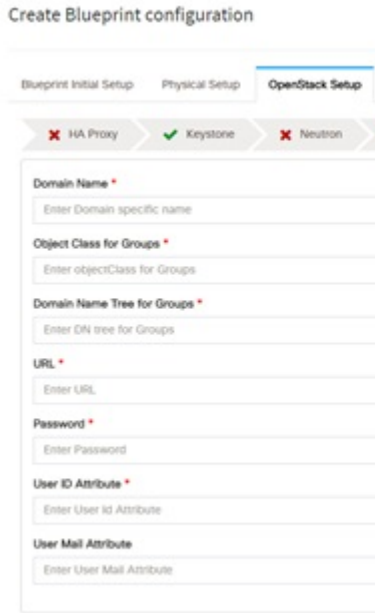
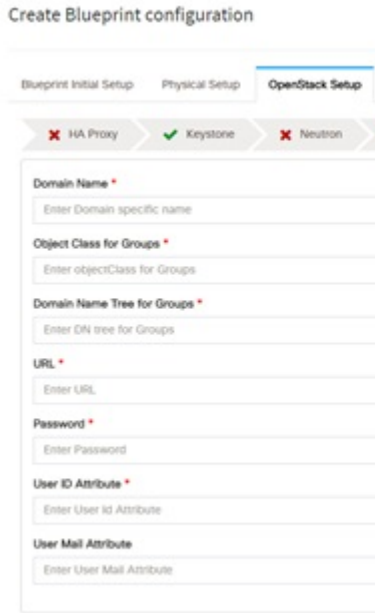
	Command or Action	Purpose																																				
		<table border="1" data-bbox="906 275 1490 422"> <thead> <tr> <th data-bbox="906 275 1198 331">Name</th> <th data-bbox="1198 275 1490 331">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="906 331 1198 422">Rabbit MQ User Name</td> <td data-bbox="1198 331 1490 422">Enter Rabbit MQ username.</td> </tr> </tbody> </table> <p data-bbox="855 443 1490 506">h. Click CVIMMON option in Blueprint Initial Setup to enable the CVIM Monitoring configuration tab.</p> <div data-bbox="922 562 1620 1696"> <p data-bbox="922 562 1230 594">Create Blueprint configuration</p> <p data-bbox="938 646 1344 678"> Blueprint Initial Setup Physical Setup OpenStack Setup </p> <p data-bbox="971 709 1604 741"> ✖ Registry Setup ✖ UCSM Common ✖ Networking ✖ Services and Rules </p> <p data-bbox="971 772 1027 804">Enable <input type="checkbox"/></p> <p data-bbox="971 846 1133 877">UI Access <input type="text"/> + ?</p> <p data-bbox="971 909 1068 930">Polling Intervals</p> <table data-bbox="995 930 1466 1066"> <tbody> <tr> <td data-bbox="995 930 1222 961">Low Frequency</td> <td data-bbox="1222 930 1401 961">1</td> <td data-bbox="1401 930 1466 961">m ▼</td> </tr> <tr> <td data-bbox="995 961 1222 993">Medium Frequency</td> <td data-bbox="1222 961 1401 993">30</td> <td data-bbox="1401 961 1466 993">s ▼</td> </tr> <tr> <td data-bbox="995 993 1222 1024">High Frequency</td> <td data-bbox="1222 993 1401 1024">15</td> <td data-bbox="1401 993 1466 1024">s ▼</td> </tr> <tr> <td data-bbox="995 1024 1222 1066">CVIMMON Central</td> <td colspan="2" data-bbox="1222 1024 1466 1066">▼</td> </tr> </tbody> </table> <p data-bbox="971 1098 1068 1119">External Servers</p> <table data-bbox="971 1161 1620 1234"> <thead> <tr> <th data-bbox="971 1161 1450 1192">Server IP</th> <th data-bbox="1450 1161 1620 1192">Action</th> </tr> </thead> <tbody> <tr> <td colspan="2" data-bbox="971 1192 1620 1234">No Data Available</td> </tr> </tbody> </table> <p data-bbox="971 1318 1003 1339">LDAP</p> <p data-bbox="971 1350 1076 1371">Group Mappings</p> <table data-bbox="971 1413 1620 1486"> <thead> <tr> <th data-bbox="971 1413 1287 1444">Group DN</th> <th data-bbox="1287 1413 1620 1444">Org Role</th> </tr> </thead> <tbody> <tr> <td colspan="2" data-bbox="971 1444 1620 1486">No Data Available</td> </tr> </tbody> </table> <p data-bbox="971 1518 1084 1539">Domain Mappings</p> <table data-bbox="971 1581 1620 1654"> <thead> <tr> <th data-bbox="971 1581 1084 1612">Domain Name...</th> <th data-bbox="1084 1581 1190 1612">Attributes</th> <th data-bbox="1190 1581 1304 1612">Bind DN</th> <th data-bbox="1304 1581 1417 1612">Bind Passwor...</th> <th data-bbox="1417 1581 1531 1612">LDAP URI</th> <th data-bbox="1531 1581 1620 1612">Sea</th> </tr> </thead> <tbody> <tr> <td colspan="6" data-bbox="971 1612 1620 1654">No Data Available</td> </tr> </tbody> </table> </div>	Name	Description	Rabbit MQ User Name	Enter Rabbit MQ username.	Low Frequency	1	m ▼	Medium Frequency	30	s ▼	High Frequency	15	s ▼	CVIMMON Central	▼		Server IP	Action	No Data Available		Group DN	Org Role	No Data Available		Domain Name...	Attributes	Bind DN	Bind Passwor...	LDAP URI	Sea	No Data Available					
Name	Description																																					
Rabbit MQ User Name	Enter Rabbit MQ username.																																					
Low Frequency	1	m ▼																																				
Medium Frequency	30	s ▼																																				
High Frequency	15	s ▼																																				
CVIMMON Central	▼																																					
Server IP	Action																																					
No Data Available																																						
Group DN	Org Role																																					
No Data Available																																						
Domain Name...	Attributes	Bind DN	Bind Passwor...	LDAP URI	Sea																																	
No Data Available																																						

	Command or Action	Purpose	
		Name	Description
		Enable	By default, it is false. It is case-sensitive and can be True or False
		UI Access	Optional, and if not defined it is set to True by default. With this option disabled, CVIM_MON with SNMP is available but you cannot access Grafana, Alert-Manager, and Prometheus UIs
		Polling Interval	Optional. Denotes 's' for seconds, m for minutes, and h for hours
		High Frequency	Minimum of 10 seconds (10s) and maximum of 60 mins (1h). If not defined, defaults to 15s.
		Medium Frequency	Minimum of 30 seconds (30s) and maximum of 60 mins (1h). If not defined, defaults to 30s. It must be more than high interval
		Low Frequency	Minimum of 1 minute (1m) and maximum of 60 mins (1h). If not defined, defaults to 1 minute. It must be more than medium interval.
		CVIMMON Central	Optional, if not defined, defaults to False. With this option enabled, you will get central CVIM-MON (only telegraf agents running on pod), without local Prometheus, AlertManager, or Grafana
		External Servers	Optional, list of external server IPs (v4 or v6) to be monitored by CVIM MON

	Command or Action	Purpose														
		<p>i. Click OpenStack Setup tab to advance to the OpenStack Setup Configuration page. On the OpenStack Setup page of the Cisco VIM Unified Management wizard, complete the following fields:</p> <table border="1" data-bbox="906 420 1492 1797"> <thead> <tr> <th data-bbox="906 420 1179 478">Name</th> <th data-bbox="1179 420 1492 478">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="906 478 1179 1003"> HA Proxy </td> <td data-bbox="1179 478 1492 1003"> Fill in the following details:  </td> </tr> <tr> <td data-bbox="1179 1003 1338 1176"> External VIP Address </td> <td data-bbox="1338 1003 1492 1176"> Enter the IP address of the External field </td> </tr> <tr> <td data-bbox="1179 1176 1338 1360"> External VIP Address IPv6 field </td> <td data-bbox="1338 1176 1492 1360"> Enter the IPv6 address of the External field </td> </tr> <tr> <td data-bbox="1179 1360 1338 1482"> Virtual Router ID field </td> <td data-bbox="1338 1360 1492 1482"> Enter the Router ID for the HA. </td> </tr> <tr> <td data-bbox="1179 1482 1338 1633"> Internal VIP Address IPv6 field </td> <td data-bbox="1338 1482 1492 1633"> Enter the IPv6 address of the Internal IP. </td> </tr> <tr> <td data-bbox="1179 1633 1338 1797"> Internal VIP Address field </td> <td data-bbox="1338 1633 1492 1797"> Enter the IP address of the Internal field </td> </tr> </tbody> </table>	Name	Description	HA Proxy	Fill in the following details: 	External VIP Address	Enter the IP address of the External field	External VIP Address IPv6 field	Enter the IPv6 address of the External field	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 field
Name	Description															
HA Proxy	Fill in the following details: 															
External VIP Address	Enter the IP address of the External field															
External VIP Address IPv6 field	Enter the IPv6 address of the External field															
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 field															

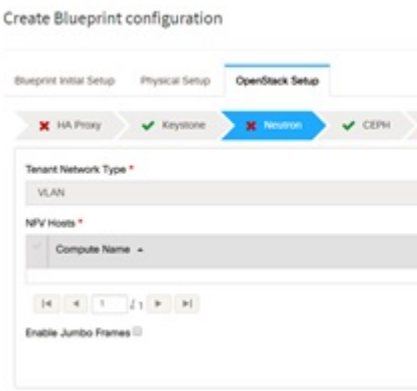
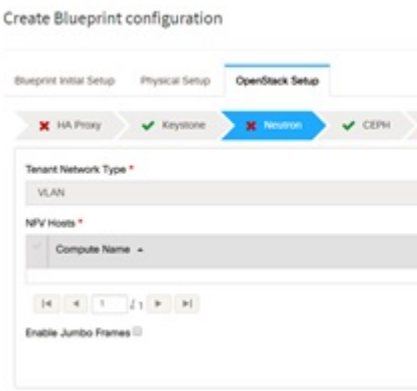
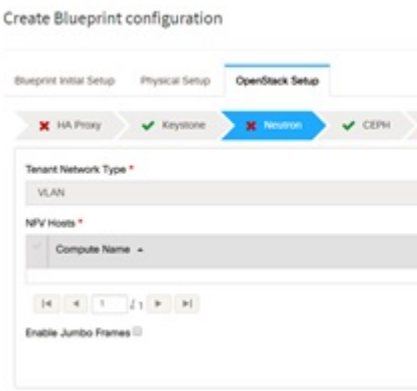
	Command or Action	Purpose								
		<table border="1"> <thead> <tr> <th data-bbox="889 275 1214 331">Name</th> <th data-bbox="1214 275 1534 331">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="889 331 1214 1218">Keystone</td> <td data-bbox="1214 331 1534 1218"> <p>The following are the Pre-populated field values. This option is always set to be true.</p>  <table border="1"> <tbody> <tr> <td data-bbox="1214 966 1377 1081">Admin Username field</td> <td data-bbox="1377 966 1534 1081">admin</td> </tr> <tr> <td data-bbox="1214 1081 1377 1218">Admin Tenant Name field</td> <td data-bbox="1377 1081 1534 1218">admin</td> </tr> </tbody> </table> </td> </tr> </tbody> </table>	Name	Description	Keystone	<p>The following are the Pre-populated field values. This option is always set to be true.</p>  <table border="1"> <tbody> <tr> <td data-bbox="1214 966 1377 1081">Admin Username field</td> <td data-bbox="1377 966 1534 1081">admin</td> </tr> <tr> <td data-bbox="1214 1081 1377 1218">Admin Tenant Name field</td> <td data-bbox="1377 1081 1534 1218">admin</td> </tr> </tbody> </table>	Admin Username field	admin	Admin Tenant Name field	admin
Name	Description									
Keystone	<p>The following are the Pre-populated field values. This option is always set to be true.</p>  <table border="1"> <tbody> <tr> <td data-bbox="1214 966 1377 1081">Admin Username field</td> <td data-bbox="1377 966 1534 1081">admin</td> </tr> <tr> <td data-bbox="1214 1081 1377 1218">Admin Tenant Name field</td> <td data-bbox="1377 1081 1534 1218">admin</td> </tr> </tbody> </table>	Admin Username field	admin	Admin Tenant Name field	admin					
Admin Username field	admin									
Admin Tenant Name field	admin									

	Command or Action	Purpose	
		Name	Description
		<p>LDAP (Only if Keystonev3 is enabled)</p> <p>Note This option is only available with Keystone v3</p>	

	Command or Action	Purpose															
		<table border="1"> <thead> <tr> <th data-bbox="889 273 1218 325">Name</th> <th data-bbox="1218 273 1534 325">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="889 325 1218 1207"></td> <td data-bbox="1218 325 1534 1207"> <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>  </td> </tr> <tr> <td data-bbox="889 1207 1218 1333">Domain Name field</td> <td data-bbox="1218 1207 1534 1333">Enter the Domain name.</td> </tr> <tr> <td data-bbox="889 1333 1218 1459">Object Class for Users field</td> <td data-bbox="1218 1333 1534 1459">Enter a string as input.</td> </tr> <tr> <td data-bbox="889 1459 1218 1585">Object Class for Groups field</td> <td data-bbox="1218 1459 1534 1585">Enter a string.</td> </tr> <tr> <td data-bbox="889 1585 1218 1732">Domain Name Tree for Users field</td> <td data-bbox="1218 1585 1534 1732">Enter a string.</td> </tr> <tr> <td data-bbox="889 1732 1218 1837">Domain Name Tree for Groups</td> <td data-bbox="1218 1732 1534 1837">Enter a string.</td> </tr> </tbody> </table>	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> 	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	Enter a string.	
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> 																
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	Enter a string.																

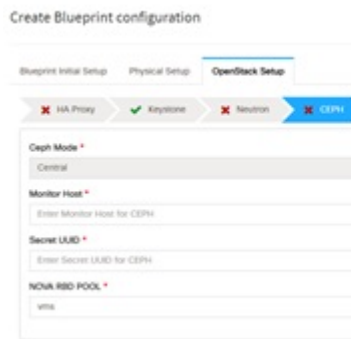
	Command or Action	Purpose	
		Name	Description
		field	
		Suffix for Domain Name field	Enter a string.
		URL field	Enter a URL with ending port number.
		Domain Name of bind user field	Enter a string.
		Password field	Enter Password as string format.
		User Filter field	Enter filter name as string.
		User ID Attribute field	Enter a string.
		User Name Attribute field	Enter a string.
		User Mail Attribute field	Enter a string.
		Group Name Attribute field	Enter a string.

	Command or Action	Purpose	
		Name	Description
		Neutron	

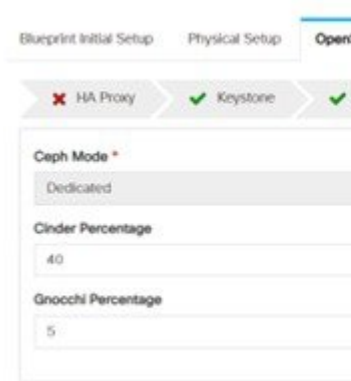
	Command or Action	Purpose										
		<table border="1"> <thead> <tr> <th data-bbox="854 275 1179 331">Name</th> <th data-bbox="1179 275 1494 331">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="854 331 1179 1862"></td> <td data-bbox="1179 331 1494 1862"> <p>Neutron fields change on the basis of <i>Tenant Network Type</i> selection from Blueprint Initial Setup. Following are the options available for Neutron for OVS/VLAN:</p>  <table border="1"> <tbody> <tr> <td data-bbox="1179 1008 1331 1354">Tenant Network Type field</td> <td data-bbox="1331 1008 1494 1354">It is Auto-filled based on the <i>Tenant Network Type</i> selected in the Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="1179 1354 1331 1690">Mechanism Drivers field</td> <td data-bbox="1331 1354 1494 1690">It is Auto-filled based on the <i>Tenant Network Type</i> selected in Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="1179 1690 1331 1862">NFV Hosts field</td> <td data-bbox="1331 1690 1494 1862">It is Auto-filled with the Compute you added in</td> </tr> </tbody> </table> </td> </tr> </tbody> </table>	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>  <table border="1"> <tbody> <tr> <td data-bbox="1179 1008 1331 1354">Tenant Network Type field</td> <td data-bbox="1331 1008 1494 1354">It is Auto-filled based on the <i>Tenant Network Type</i> selected in the Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="1179 1354 1331 1690">Mechanism Drivers field</td> <td data-bbox="1331 1354 1494 1690">It is Auto-filled based on the <i>Tenant Network Type</i> selected in Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="1179 1690 1331 1862">NFV Hosts field</td> <td data-bbox="1331 1690 1494 1862">It is Auto-filled with the Compute you added in</td> </tr> </tbody> </table>	Tenant Network Type field	It is Auto-filled based on the <i>Tenant Network Type</i> selected in the Blueprint Initial Setup page.	Mechanism Drivers field	It is Auto-filled based on the <i>Tenant Network Type</i> selected in Blueprint Initial Setup page.	NFV Hosts field	It is Auto-filled with the Compute you added in
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>  <table border="1"> <tbody> <tr> <td data-bbox="1179 1008 1331 1354">Tenant Network Type field</td> <td data-bbox="1331 1008 1494 1354">It is Auto-filled based on the <i>Tenant Network Type</i> selected in the Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="1179 1354 1331 1690">Mechanism Drivers field</td> <td data-bbox="1331 1354 1494 1690">It is Auto-filled based on the <i>Tenant Network Type</i> selected in Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="1179 1690 1331 1862">NFV Hosts field</td> <td data-bbox="1331 1690 1494 1862">It is Auto-filled with the Compute you added in</td> </tr> </tbody> </table>	Tenant Network Type field	It is Auto-filled based on the <i>Tenant Network Type</i> selected in the Blueprint Initial Setup page.	Mechanism Drivers field	It is Auto-filled based on the <i>Tenant Network Type</i> selected in Blueprint Initial Setup page.	NFV Hosts field	It is Auto-filled with the Compute you added in					
Tenant Network Type field	It is Auto-filled based on the <i>Tenant Network Type</i> selected in the Blueprint Initial Setup page.											
Mechanism Drivers field	It is Auto-filled based on the <i>Tenant Network Type</i> selected in Blueprint Initial Setup page.											
NFV Hosts field	It is Auto-filled with the Compute you added in											

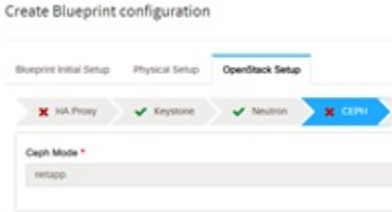
	Command or Action	Purpose	
		Name	Description
			<p>Server and Roles.</p> <p>If you select All in this section <code>NFV_HOSTS: ALL</code> is added to the Blueprint or you can select one particular compute. For Example: <code>NFV_HOSTS: compute-server-1, compute-server-2</code></p>
		Tenant VLAN Ranges field	List of ranges separated by comma form start:end.
		Provider VLAN Ranges field	List of ranges separated by comma form start:end.
		VM High Page Size (available for NFV_HOSTS option) field	2M or 1G
		Enable Jumbo Frames field	Enable the checkbox.
		<p>For Tenant Network Type, Linux Bridge everything remains the same but Tenant VLAN Ranges is removed.</p>	

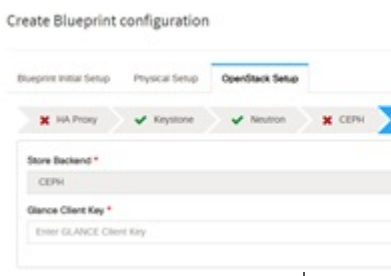
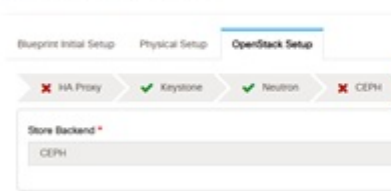
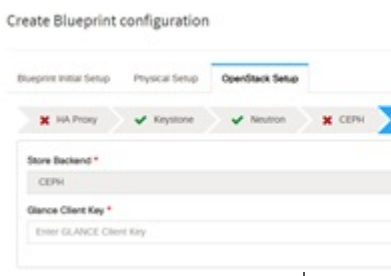
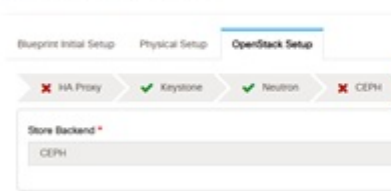
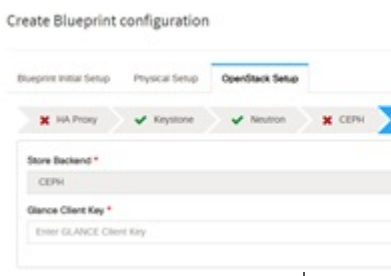
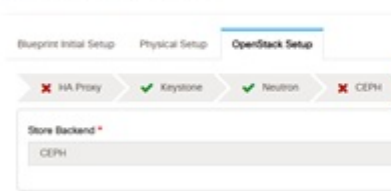
	Command or Action	Purpose	
		Name	Description
		CEPH	

	Command or Action	Purpose																	
		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="1266 861 1526 1858"> <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</td> <td>CEPH NAT</td> </tr> </table>	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	CEPH NAT
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	CEPH NAT																		

	Command or Action	Purpose	
		Name	Description
			NAT is required for Central Ceph and when mgmt network is not routable.

	Command or Action	Purpose	
		Name	Description
			<p>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, it is set to Dedicated. • Nova Boot From: You can choose CEPH or local. • Cinder Percentage: Must be 60 when Nova Boot From is local, and must be 40 when Nova Boot is Ceph • Nova Percentage: Only applicable when Nova Boot From is Ceph. Must be 30% otherwise. • Glance Percentage : Must be 40 when Nova Boot From is local, and must be 30 when NOVA Boot From is Ceph. If Ceilometer is enabled, it must be 35% for Nova Boot from local and 25% for NOVA Boot From is Ceph.

	Command or Action	Purpose	
		Name	Description
			<ul style="list-style-type: none"> • Gnocchi Percentage: Only applicable when ceilometer is enabled, and must be 5%. <p>3. When Object Storage Backend is selected as <i>NetApp</i> in the blueprint initial setup.</p>  <p>The screenshot shows the 'OpenStack Setup' step of a wizard. It has three sub-steps: 'Blueprint Initial Setup', 'Physical Setup', and 'OpenStack Setup'. Below these are three progress indicators: 'NA Proxy' with a red 'X', 'Keystone' with a green checkmark, and 'Neutron' with a green checkmark. A blue arrow points to 'Ceph Mode', which is currently set to 'netapp'.</p> <ul style="list-style-type: none"> • Ceph mode : By Default netapp • Cinder Percenatge : Must be 60% • Glance Percenatge: Must be 40%

	Command or Action	Purpose										
		<table border="1"> <thead> <tr> <th data-bbox="889 275 1214 331">Name</th> <th data-bbox="1214 275 1534 331">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="889 331 1214 1642">GLANCE</td> <td data-bbox="1214 331 1534 1642"> <p>1. When Object Storage Backend is selected as <i>Central</i> in the blueprint initial setup.</p>  <table border="1"> <tr> <td data-bbox="1226 787 1372 871">Store Backend</td> <td data-bbox="1372 787 1534 871">By default CEPH.</td> </tr> <tr> <td data-bbox="1226 871 1372 976">Glance RBD Pool field</td> <td data-bbox="1372 871 1534 976">By default images.</td> </tr> <tr> <td data-bbox="1226 976 1372 1102">Glance Client Key</td> <td data-bbox="1372 976 1534 1102">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> </td> </tr> </tbody> </table>	Name	Description	GLANCE	<p>1. When Object Storage Backend is selected as <i>Central</i> in the blueprint initial setup.</p>  <table border="1"> <tr> <td data-bbox="1226 787 1372 871">Store Backend</td> <td data-bbox="1372 787 1534 871">By default CEPH.</td> </tr> <tr> <td data-bbox="1226 871 1372 976">Glance RBD Pool field</td> <td data-bbox="1372 871 1534 976">By default images.</td> </tr> <tr> <td data-bbox="1226 976 1372 1102">Glance Client Key</td> <td data-bbox="1372 976 1534 1102">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
Name	Description											
GLANCE	<p>1. When Object Storage Backend is selected as <i>Central</i> in the blueprint initial setup.</p>  <table border="1"> <tr> <td data-bbox="1226 787 1372 871">Store Backend</td> <td data-bbox="1372 787 1534 871">By default CEPH.</td> </tr> <tr> <td data-bbox="1226 871 1372 976">Glance RBD Pool field</td> <td data-bbox="1372 871 1534 976">By default images.</td> </tr> <tr> <td data-bbox="1226 976 1372 1102">Glance Client Key</td> <td data-bbox="1372 976 1534 1102">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											

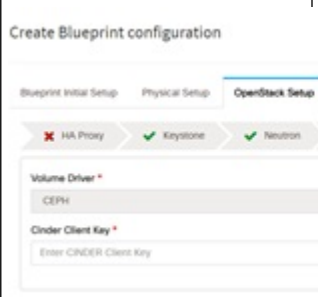
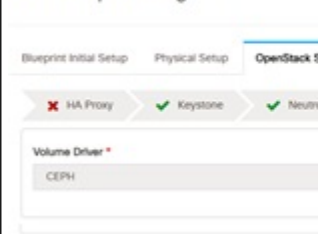
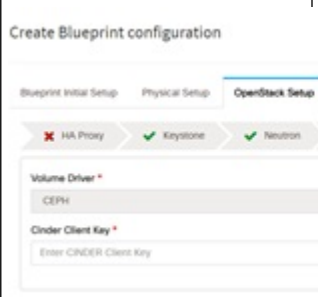
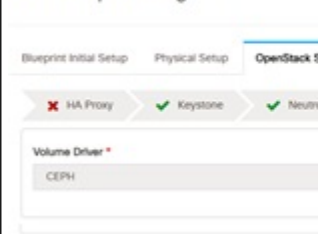
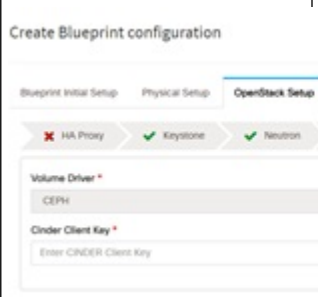
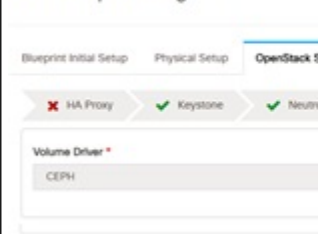
	Command or Action	Purpose	
		Name	Description
		Vim LDAP Admins	

	Command or Action	Purpose	
		Name	Description
			<p>Optional entry to support LDAP for Admin access to management node. TLS must be enabled for the external api (i.e. external_lb_vip_tls: True).</p> <p>Following are the values to be filled to add vim LDAP admins:</p>

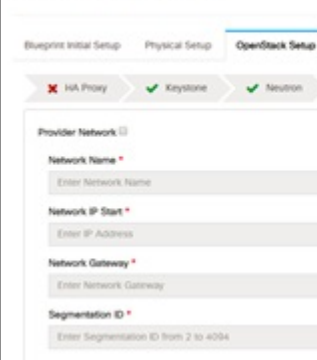
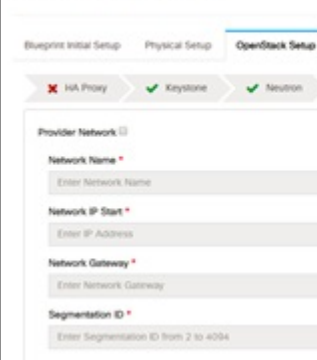
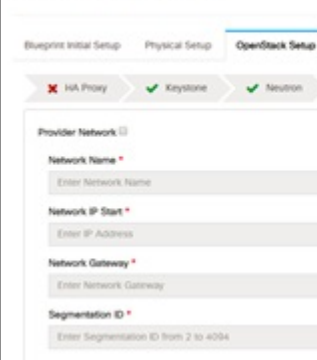
	Command or Action	Purpose	
		Name	Description
			<p>Add Vlm LDAP Admins</p> <p>Domain Name *</p> <input type="text" value="Enter Domain Name"/> <p>LDAP URI *</p> <input type="text" value="Enter LDAP uri Name"/> <p>LDAP Search Base *</p> <input type="text" value="Enter Search Base"/> <p>LDAP Schema</p> <input type="text" value="Enter LDAP Schema"/> <p>LDAP User object Class</p> <input type="text" value="Enter LDAP User object Class"/> <p>LDAP User UID number</p> <input type="text" value="Enter LDAP User UID number"/> <p>LDAP User GID number</p> <input type="text" value="Enter LDAP User GID number"/> <p>LDAP Group Member</p> <input type="text" value="Enter LDAP Group Member"/> <p>LDAP Default Bind DN</p> <input type="text" value="Enter LDAP Default Bind DN"/> <p>LDAP Default Auth Token</p> <input type="text" value="Enter LDAP Default Auth Token"/> <p>LDAP Default Auth Token Type</p> <input type="text" value="Enter LDAP Default Auth Token Type"/> <p>Ldap Group Search Base</p> <input type="text" value="Enter Ldap Group Search Base"/> <p>Ldap User Search Base</p> <input type="text" value="Enter Ldap User Search Base"/> <p>Access Provider</p> <input type="text" value="Enter Access Provider"/> <p>Simple Allow Groups</p> <input type="text" value="Enter Simple Allow Groups"/> <p>LDAP ID use start TLS</p> <input type="text" value="Select"/> <p>LDAP TLS Request Certificate</p> <input type="text" value="Select"/> <p>Ctppos Provider</p> <input type="text" value="Select"/> <p><input type="button" value="Save"/> <input type="button" value="Cancel"/></p>




	Command or Action	Purpose	
		Name	Description
			<ul style="list-style-type: none"> • domain_name: Mandatory to define vim LDAP admins. • ldap_uri : The ldap_uris must be secured over ldaps. It is mandatory field • ldap_search_base: It is mandatory. Enter search base • ldap_schema: Optional. Enter the schema. • ldap_user_object_class: Optional. Indicates the posixAccount. • ldap_user_uid_number: Optional. Enter the user id number. • ldap_user_gid_number: Optional. Enter the group id number. • ldap_group_member: Optional. Enter the group member. • ldap_default_bind_dn: Optional . Enter default distinguished name • ldap_default_authtok: Optional. Default authentication token. • ldap_default_authtok_type: Optional. Default authentication token type. • ldap_group_search_base: Optional. Enter group search base • ldap_user_search_base:

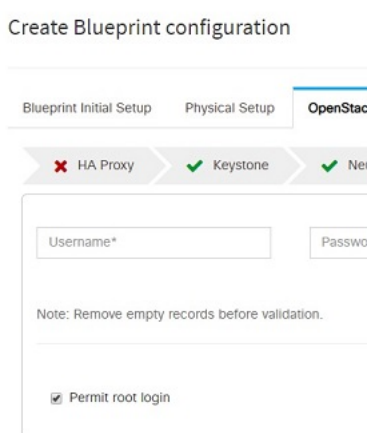
	Command or Action	Purpose	
		Name	Description
			<p>Optional. Enter user Search Base</p> <ul style="list-style-type: none"> • access_provider: Optional • simple_allow_groups: Optional • ldap_id_use_start_tls: Optional. Can be true or false. • ldap_tls_reqcert: Optional . Can be never/allow/try/demand. • chpass_provider: Optional. Can be ldap/krb5/ad/none.

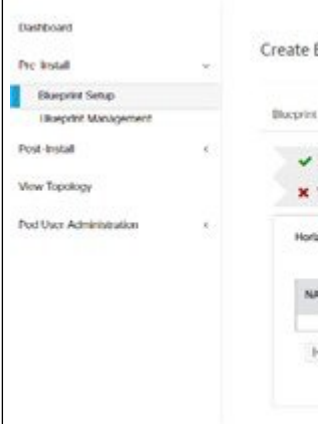
	Command or Action	Purpose											
		<table border="1"> <thead> <tr> <th data-bbox="889 275 1218 331">Name</th> <th data-bbox="1218 275 1534 331">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="889 331 1218 1411">CINDER</td> <td data-bbox="1218 331 1534 1411"> <p>By default Populated for <i>CEPH Dedicated</i> with Volume Driver value as CEPH.</p> <p>Create Blueprint configuration</p>  <table border="1"> <tbody> <tr> <td data-bbox="1218 798 1377 882">Volume Driver</td> <td data-bbox="1377 798 1534 882">By default CEPH.</td> </tr> <tr> <td data-bbox="1218 882 1377 997">Cinder RBD Pool field</td> <td data-bbox="1377 882 1534 997">By default volumes.</td> </tr> <tr> <td data-bbox="1218 997 1377 1092">Cinder Client Key</td> <td data-bbox="1377 997 1534 1092">Enter Cinder Client Key</td> </tr> </tbody> </table> <p>Create Blueprint configuration</p>  </td> </tr> </tbody> </table>	Name	Description	CINDER	<p>By default Populated for <i>CEPH Dedicated</i> with Volume Driver value as CEPH.</p> <p>Create Blueprint configuration</p>  <table border="1"> <tbody> <tr> <td data-bbox="1218 798 1377 882">Volume Driver</td> <td data-bbox="1377 798 1534 882">By default CEPH.</td> </tr> <tr> <td data-bbox="1218 882 1377 997">Cinder RBD Pool field</td> <td data-bbox="1377 882 1534 997">By default volumes.</td> </tr> <tr> <td data-bbox="1218 997 1377 1092">Cinder Client Key</td> <td data-bbox="1377 997 1534 1092">Enter Cinder Client Key</td> </tr> </tbody> </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	
Name	Description												
CINDER	<p>By default Populated for <i>CEPH Dedicated</i> with Volume Driver value as CEPH.</p> <p>Create Blueprint configuration</p>  <table border="1"> <tbody> <tr> <td data-bbox="1218 798 1377 882">Volume Driver</td> <td data-bbox="1377 798 1534 882">By default CEPH.</td> </tr> <tr> <td data-bbox="1218 882 1377 997">Cinder RBD Pool field</td> <td data-bbox="1377 882 1534 997">By default volumes.</td> </tr> <tr> <td data-bbox="1218 997 1377 1092">Cinder Client Key</td> <td data-bbox="1377 997 1534 1092">Enter Cinder Client Key</td> </tr> </tbody> </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												

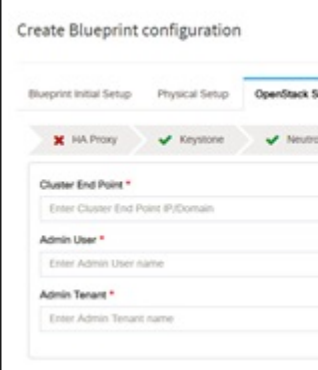
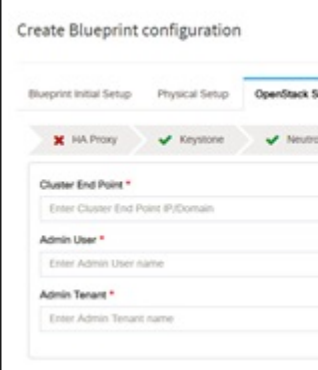
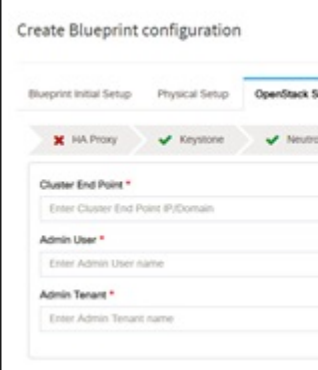
	Command or Action	Purpose	
		Name	Description
		VMTP VMTP optional section will only be visible once VMTP is selected from Blueprint Initial Setup.	

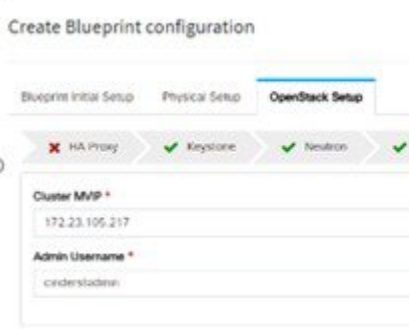
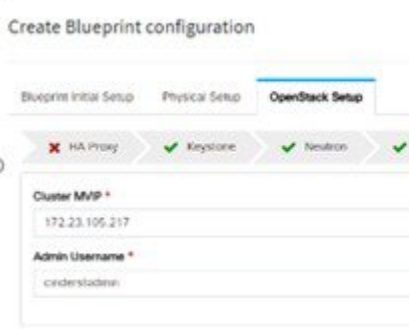
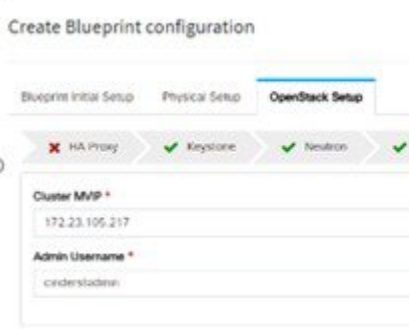
	Command or Action	Purpose															
		<table border="1"> <thead> <tr> <th data-bbox="889 275 1219 331">Name</th> <th data-bbox="1219 275 1534 331">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="889 331 1219 1050"></td> <td data-bbox="1219 331 1534 1050"> <p>Check one of the check boxes 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>  </td> </tr> <tr> <td data-bbox="889 1050 1219 1228"> <p>Network Name field</p> </td> <td data-bbox="1219 1050 1534 1228"> <p>Enter the name for the external network.</p> </td> </tr> <tr> <td data-bbox="889 1228 1219 1381"> <p>Subnet field</p> </td> <td data-bbox="1219 1228 1534 1381"> <p>Enter the Subnet for Provider Network.</p> </td> </tr> <tr> <td data-bbox="889 1381 1219 1535"> <p>Network IP Start field</p> </td> <td data-bbox="1219 1381 1534 1535"> <p>Enter the start of the floating IPv4 address.</p> </td> </tr> <tr> <td data-bbox="889 1535 1219 1688"> <p>Network IP End field</p> </td> <td data-bbox="1219 1535 1534 1688"> <p>Enter the end of the floating IPv4 address.</p> </td> </tr> <tr> <td data-bbox="889 1688 1219 1848"> <p>Network Gateway field</p> </td> <td data-bbox="1219 1688 1534 1848"> <p>Enter the IPv4 address for the Gateway.</p> </td> </tr> </tbody> </table>	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> 	<p>Network Name field</p>	<p>Enter the name for the external network.</p>	<p>Subnet field</p>	<p>Enter the Subnet for Provider Network.</p>	<p>Network IP Start field</p>	<p>Enter the start of the floating IPv4 address.</p>	<p>Network IP End field</p>	<p>Enter the end of the floating IPv4 address.</p>	<p>Network Gateway field</p>	<p>Enter the IPv4 address for the Gateway.</p>	
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> 																
<p>Network Name field</p>	<p>Enter the name for the external network.</p>																
<p>Subnet field</p>	<p>Enter the Subnet for Provider Network.</p>																
<p>Network IP Start field</p>	<p>Enter the start of the floating IPv4 address.</p>																
<p>Network IP End field</p>	<p>Enter the end of the floating IPv4 address.</p>																
<p>Network Gateway field</p>	<p>Enter the IPv4 address for the Gateway.</p>																

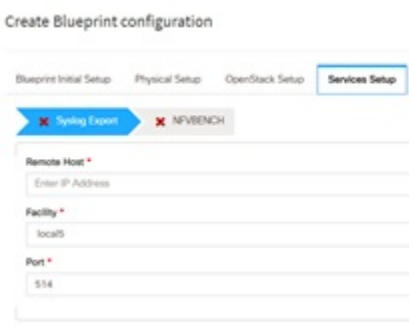
	Command or Action	Purpose																							
		<table border="1"> <thead> <tr> <th data-bbox="854 275 1179 329">Name</th> <th data-bbox="1179 275 1494 329">Description</th> </tr> </thead> </table>	Name	Description	<table border="1"> <tbody> <tr> <td data-bbox="1179 329 1338 478"> DNS Server field </td> <td data-bbox="1338 329 1494 478"> Enter the DNS server IPv4 address. </td> </tr> <tr> <td data-bbox="1179 478 1338 598"> Segmentation ID field </td> <td data-bbox="1338 478 1494 598"> Enter the segmentation ID. </td> </tr> <tr> <td colspan="2" data-bbox="1179 598 1494 699"> For External Network fill in the following details: </td> </tr> <tr> <td colspan="2" data-bbox="1179 699 1494 926">  </td> </tr> <tr> <td data-bbox="1179 926 1338 1102"> Network Name field </td> <td data-bbox="1338 926 1494 1102"> Enter the name for the external network. </td> </tr> <tr> <td data-bbox="1179 1102 1338 1255"> Subnet field </td> <td data-bbox="1338 1102 1494 1255"> Enter the Subnet for the external Network. </td> </tr> <tr> <td data-bbox="1179 1255 1338 1409"> Network IP Start field </td> <td data-bbox="1338 1255 1494 1409"> Enter the start of the floating IPv4 address. </td> </tr> <tr> <td data-bbox="1179 1409 1338 1562"> Network IP End field </td> <td data-bbox="1338 1409 1494 1562"> Enter the end of the floating IPv4 address. </td> </tr> <tr> <td data-bbox="1179 1562 1338 1715"> Network Gateway field </td> <td data-bbox="1338 1562 1494 1715"> Enter the IPv4 address for the Gateway. </td> </tr> <tr> <td data-bbox="1179 1715 1338 1869"> DNS Server field </td> <td data-bbox="1338 1715 1494 1869"> Enter the DNS server IPv4 address. </td> </tr> </tbody> </table>	DNS Server field	Enter the DNS server IPv4 address.	Segmentation ID field	Enter the segmentation ID.	For External Network fill in the following details:				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 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.
Name	Description																								
DNS Server field	Enter the DNS server IPv4 address.																								
Segmentation ID field	Enter the segmentation ID.																								
For External Network fill in the following details:																									
																									
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 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.																								

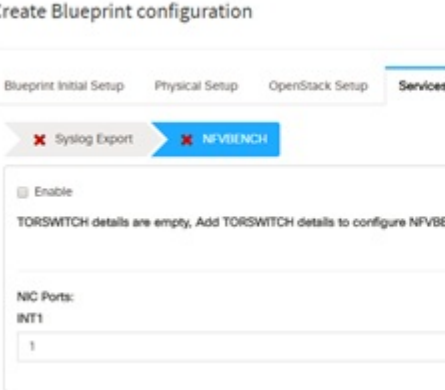
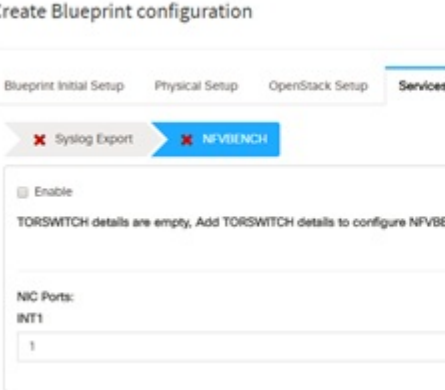
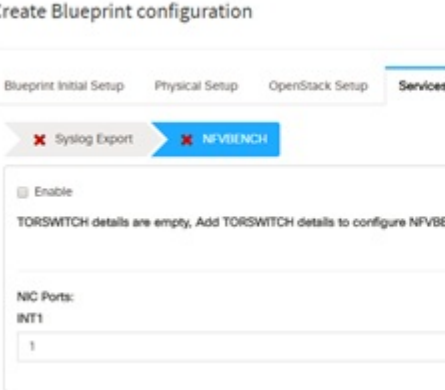
	Command or Action	Purpose					
		<table border="1"> <thead> <tr> <th data-bbox="889 273 1218 325">Name</th> <th data-bbox="1218 273 1534 325">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="889 325 1218 598"> TLS This optional section will only be visible once TLS is selected from Blueprint Initial Setup Page. </td> <td data-bbox="1218 325 1534 598"> TLS has two options: <ul style="list-style-type: none"> • External LB VIP FQDN - -Text field. • External LB VIP TLS True/False. By default this option is false. </td> </tr> </tbody> </table>	Name	Description	TLS This optional section will only be visible once TLS is selected from Blueprint Initial Setup Page.	TLS has two options: <ul style="list-style-type: none"> • External LB VIP FQDN - -Text field. • External LB VIP TLS True/False. By default this option is false. 	<p>Following are the field descriptions for VIM Admins:</p>  <ul style="list-style-type: none"> • User Name - Text field. • Password -Password field. Admin hash password should always start with \$6.
Name	Description						
TLS This optional section will only be visible once TLS is selected from Blueprint Initial Setup Page.	TLS has two options: <ul style="list-style-type: none"> • External LB VIP FQDN - -Text field. • External LB VIP TLS True/False. By default this option is false. 						
	<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>						

	Command or Action	Purpose	
		Name	Description
		Horizon Aliases	<p>If the external_lb_vip is behind a NAT router or has a DNS alias, provide a list of those addresses. Horizon Allowed Hosts uses comma separated list of IP addresses and/or DNS names for horizon hosting.</p>  <p>The screenshot shows the 'Create Blueprint configuration' page in the Horizon management console. On the left is a navigation menu with options: Dashboard, Pre-Install, Blueprint Setup (selected), Blueprint Management, Post-Install, View Topology, and Post-User Administration. The main content area shows 'Blueprint Initial Setup' and 'Physical' tabs. Under 'Blueprint Initial Setup', there are status indicators for 'HA Proxy' (green checkmark), 'Key' (green checkmark), and 'Vim LDAP Admins' (red X). Below this is the 'Horizon Allowed Hosts' section, which includes a 'NAT IP' input field and a list of IP addresses with navigation arrows.</p>

	Command or Action	Purpose																	
		<table border="1"> <thead> <tr> <th data-bbox="885 273 1218 325">Name</th> <th data-bbox="1218 273 1534 325">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="885 325 1218 829"> <p>SwiftStack optional section will be visible once SwiftStack is selected from Blueprint Initial Setup Page. SwiftStack is only supported with KeyStone2 . If you select Keystone3, swiftstack will not be available for configuration.</p> </td> <td data-bbox="1218 325 1534 829"> <p>Following are the options that needs to be filled for SwiftStack:</p>  </td> </tr> <tr> <td data-bbox="885 829 1218 997"> <p>Cluster End Point field</p> </td> <td data-bbox="1218 829 1534 997"> <p>IP address of PAC (by Account) endpoint.</p> </td> </tr> <tr> <td data-bbox="885 997 1218 1144"> <p>Admin User field</p> </td> <td data-bbox="1218 997 1534 1144"> <p>Admin user for swift to authenticate in keystone.</p> </td> </tr> <tr> <td data-bbox="885 1144 1218 1375"> <p>Admin Tenant field</p> </td> <td data-bbox="1218 1144 1534 1375"> <p>The service tenant corresponding to the Account used by the Swiftstack.</p> </td> </tr> <tr> <td data-bbox="885 1375 1218 1690"> <p>Reseller Prefix field</p> </td> <td data-bbox="1218 1375 1534 1690"> <p>Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack. Example: KEY_</p> </td> </tr> <tr> <td data-bbox="885 1690 1218 1795"> <p>Admin Password field</p> </td> <td data-bbox="1218 1690 1534 1795"> <p>swkadminpwd</p> </td> </tr> <tr> <td data-bbox="885 1795 1218 1869"> <p>Protocol</p> </td> <td data-bbox="1218 1795 1534 1869"> <p>http or https</p> </td> </tr> </tbody> </table>	Name	Description	<p>SwiftStack optional section will be visible once SwiftStack is selected from Blueprint Initial Setup Page. SwiftStack is only supported with KeyStone2 . If you select Keystone3, swiftstack will not be available for configuration.</p>	<p>Following are the options that needs to be filled for SwiftStack:</p> 	<p>Cluster End Point field</p>	<p>IP address of PAC (by Account) endpoint.</p>	<p>Admin User field</p>	<p>Admin user for swift to authenticate in keystone.</p>	<p>Admin Tenant field</p>	<p>The service tenant corresponding to the Account used by the Swiftstack.</p>	<p>Reseller Prefix field</p>	<p>Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack. Example: KEY_</p>	<p>Admin Password field</p>	<p>swkadminpwd</p>	<p>Protocol</p>	<p>http or https</p>	
Name	Description																		
<p>SwiftStack optional section will be visible once SwiftStack is selected from Blueprint Initial Setup Page. SwiftStack is only supported with KeyStone2 . If you select Keystone3, swiftstack will not be available for configuration.</p>	<p>Following are the options that needs to be filled for SwiftStack:</p> 																		
<p>Cluster End Point field</p>	<p>IP address of PAC (by Account) endpoint.</p>																		
<p>Admin User field</p>	<p>Admin user for swift to authenticate in keystone.</p>																		
<p>Admin Tenant field</p>	<p>The service tenant corresponding to the Account used by the Swiftstack.</p>																		
<p>Reseller Prefix field</p>	<p>Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack. Example: KEY_</p>																		
<p>Admin Password field</p>	<p>swkadminpwd</p>																		
<p>Protocol</p>	<p>http or https</p>																		

	Command or Action	Purpose															
		<p>j. For SolidFire, enter the following:</p> <table border="1" data-bbox="906 323 1492 1344"> <thead> <tr> <th data-bbox="906 323 1198 380">Name</th> <th data-bbox="1198 323 1492 380">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="906 380 1198 464">SolidFire is visible for configuration on day0</td> <td data-bbox="1198 380 1492 464" rowspan="4">  </td> </tr> <tr> <td data-bbox="906 464 1198 541">SolidFire is not allowed as a day-2 deployment option</td> </tr> <tr> <td data-bbox="906 541 1198 619">SolidFire is always available with CEPH.</td> </tr> <tr> <td data-bbox="906 619 1198 697"></td> </tr> <tr> <td data-bbox="1198 766 1328 926">Cluster MVIP field</td> <td data-bbox="1328 766 1492 926">Management IP of SolidFire cluster.</td> </tr> <tr> <td data-bbox="1198 926 1328 1045">Cluster SVIP field</td> <td data-bbox="1328 926 1492 1045">Storage VIP of SolidFire cluster.</td> </tr> <tr> <td data-bbox="1198 1045 1328 1165">Admin Username</td> <td data-bbox="1328 1045 1492 1165">Admin user on SolidFire cluster</td> </tr> <tr> <td data-bbox="1198 1165 1328 1318">Admin Password</td> <td data-bbox="1328 1165 1492 1318">Admin password on SolidFire cluster.</td> </tr> </tbody> </table> <p>k. If Syslog Export or NFVBENCH is selected in Blueprint Initial Setup, the Services Setup pane is enabled for the user to view.</p> <p>Following are the options under Services Setup Tab:</p>	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 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.
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 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.																

	Command or Action	Purpose													
		Name	Description												
		Syslog Export	<p>Following are the options for Syslog Settings:</p>  <table border="1" data-bbox="1209 766 1534 1375"> <tr> <td>Remote Host</td> <td>Enter Syslog IP address.</td> </tr> <tr> <td>Protocol</td> <td>Only UDP is supported.</td> </tr> <tr> <td>Facility</td> <td>Defaults to local5.</td> </tr> <tr> <td>Severity</td> <td>Defaults to debug.</td> </tr> <tr> <td>Clients</td> <td>Defaults to ELK.</td> </tr> <tr> <td>Port</td> <td>Defaults to 514 but can be modified by the User.</td> </tr> </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.														

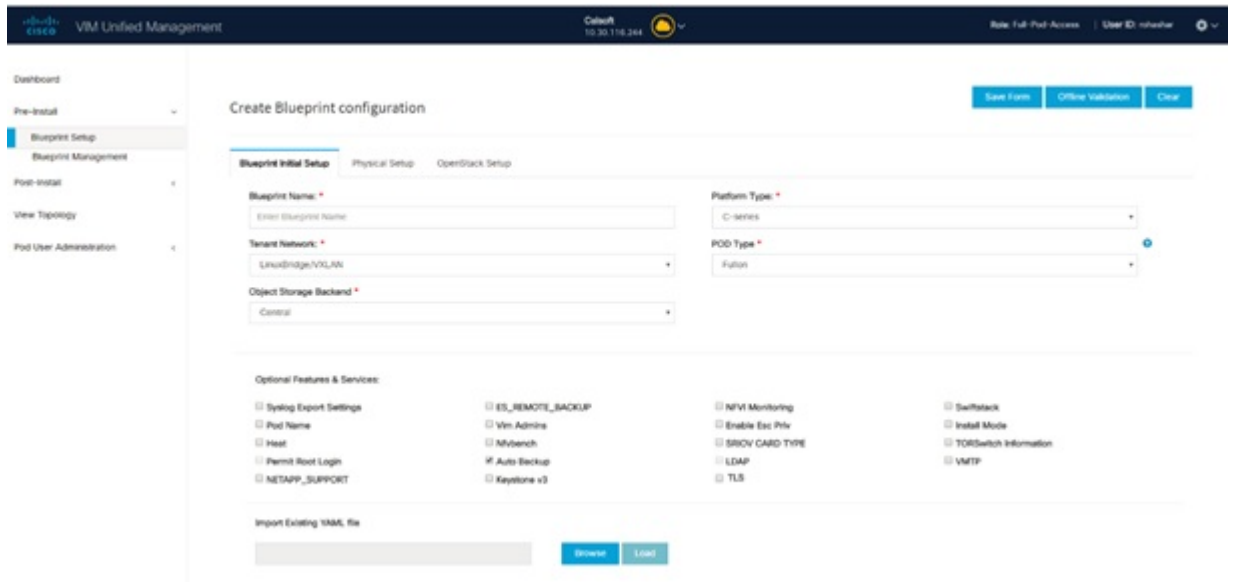
	Command or Action	Purpose					
		<table border="1"> <thead> <tr> <th data-bbox="854 275 1159 323">Name</th> <th data-bbox="1159 275 1492 323">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="854 323 1159 1564">NFVBENCH</td> <td data-bbox="1159 323 1492 1564"> <p>NFVBENCH enable checkbox which by default is <i>False</i>.</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. </td> </tr> </tbody> </table>	Name	Description	NFVBENCH	<p>NFVBENCH enable checkbox which by default is <i>False</i>.</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. 	
Name	Description						
NFVBENCH	<p>NFVBENCH enable checkbox which by default is <i>False</i>.</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> .				

Creating Blueprint for C-Series Server Platform

Create a Cisco VIM Unified Management User Account and register the respective Pod.

- Step 1** Log into **CISCO VIM Unified Management**.
- Step 2** In the **Navigation** pane, expand the **Pre-Install Section**.
- Step 3** Click **Blueprint Setup**.
- Step 4** To create a **C Series Blueprint**:

a. On the **Blueprint Initial Setup** page of the Cisco VIM Unified Management, complete the following fields:

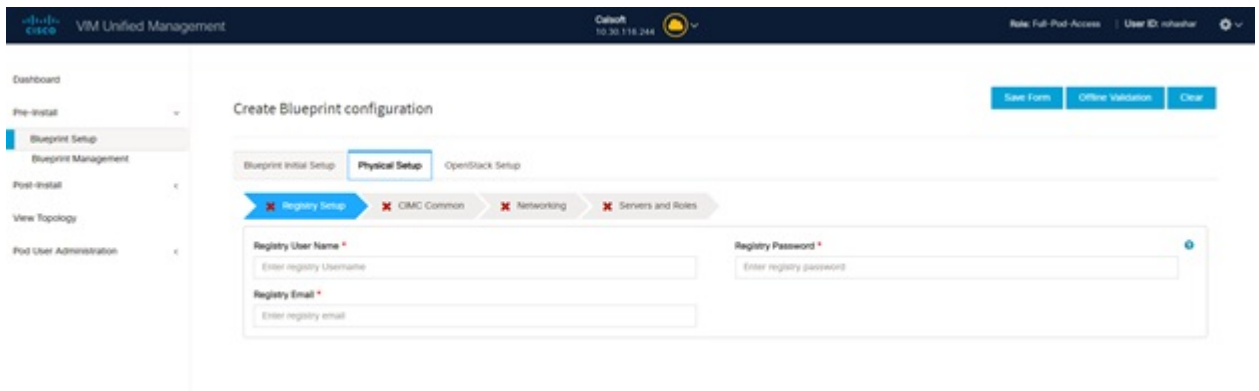


Name	Description
Blueprint Name field.	Enter the name for the blueprint configuration.
Platform Type drop-down list	Choose one of the following platform types: <ul style="list-style-type: none"> • B-Series (By default) • C-Series (Select C Series)

Name	Description
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>
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: Enabled by default. • Central. It is not supported in production
SSH Banner	Optional parameter <code>ssh_banner</code> is available in the <code>setup_data</code> , to accept a string or message that is to be displayed before the login prompt. This message indicates a warning in consistent with company's IT policies.

Name	Description
<p>Optional and Services Features checkbox</p>	<p>LDAP, Syslog Export Settings, Install Mode, TorSwitch Information, TLS, NFVMON, Pod Name, VMTP, NFVBench, Autbackup, Heat, Keystone v3, Enable Esc Priv.</p> <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>
<p>Import Existing YAML file</p>	<p>If you have an existing C Series YAML file you can use this feature to upload the file.</p> <p>Unified Management will automatically fill in the fields and any missed mandatory field will be highlighted in the respective section.</p>

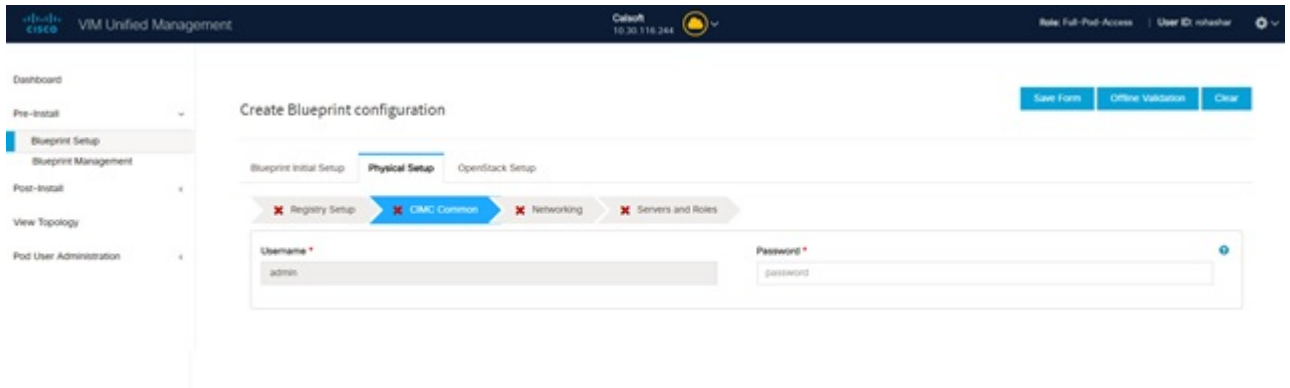
- b. Click **Physical Setup** to advance to the **Registry Setup** configuration page. Fill in the following details for Registry Setup:



Name	Description
<p>Registry User Name text field</p>	<p>User-Name for Registry (Mandatory).</p>
<p>Registry Password text field</p>	<p>Password for Registry (Mandatory).</p>
<p>Registry Email text field</p>	<p>Email ID for Registry (Mandatory).</p>

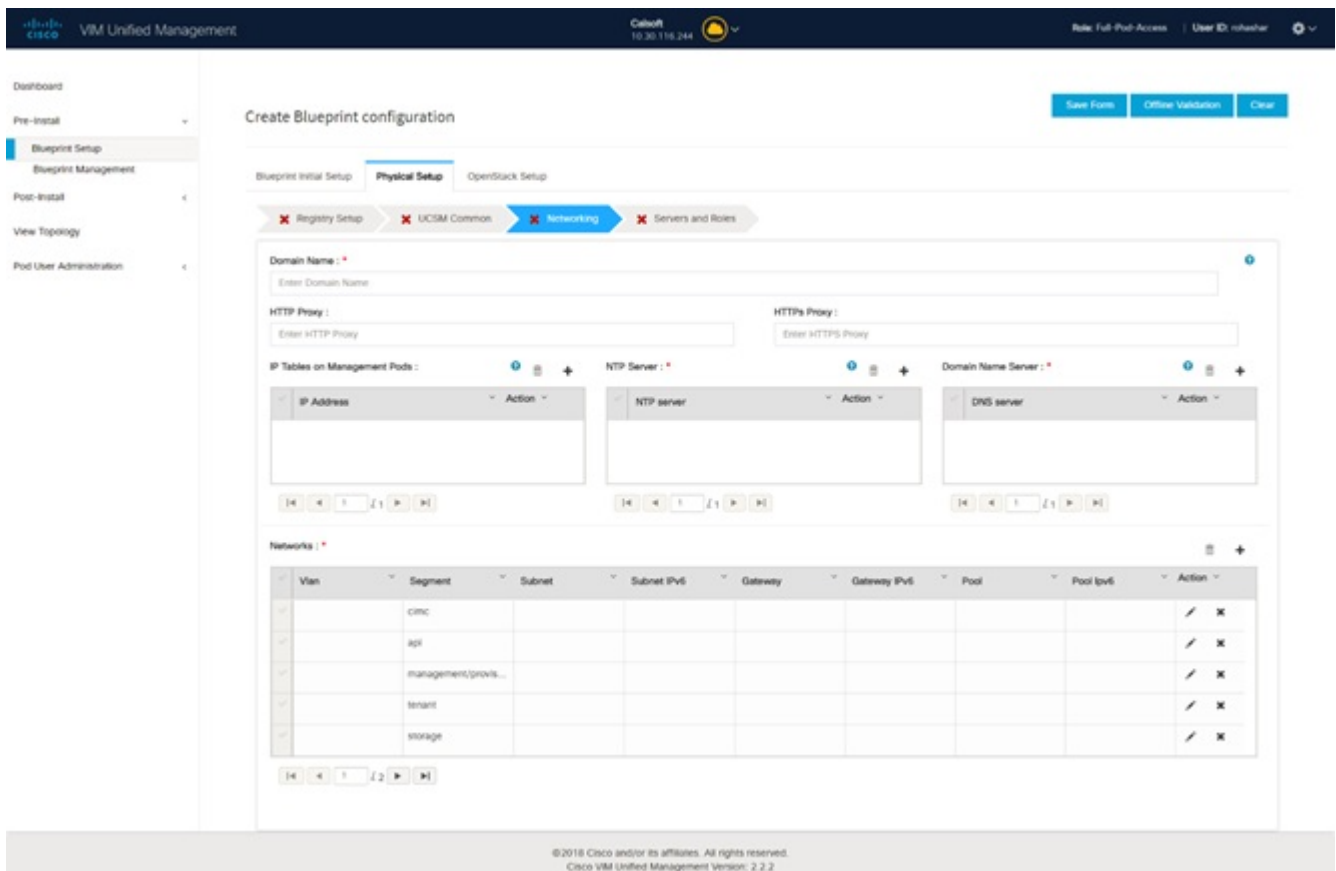
Once all the mandatory fields are filled the **Validation Check Registry Page** will be changed to a Green Tick.

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



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

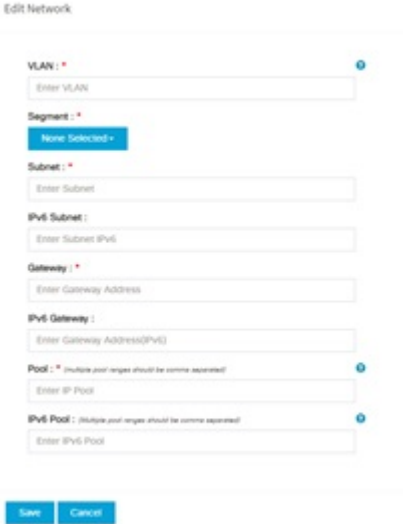
d. Click **Networking** to advance to the networking section of the Blueprint.



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 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.

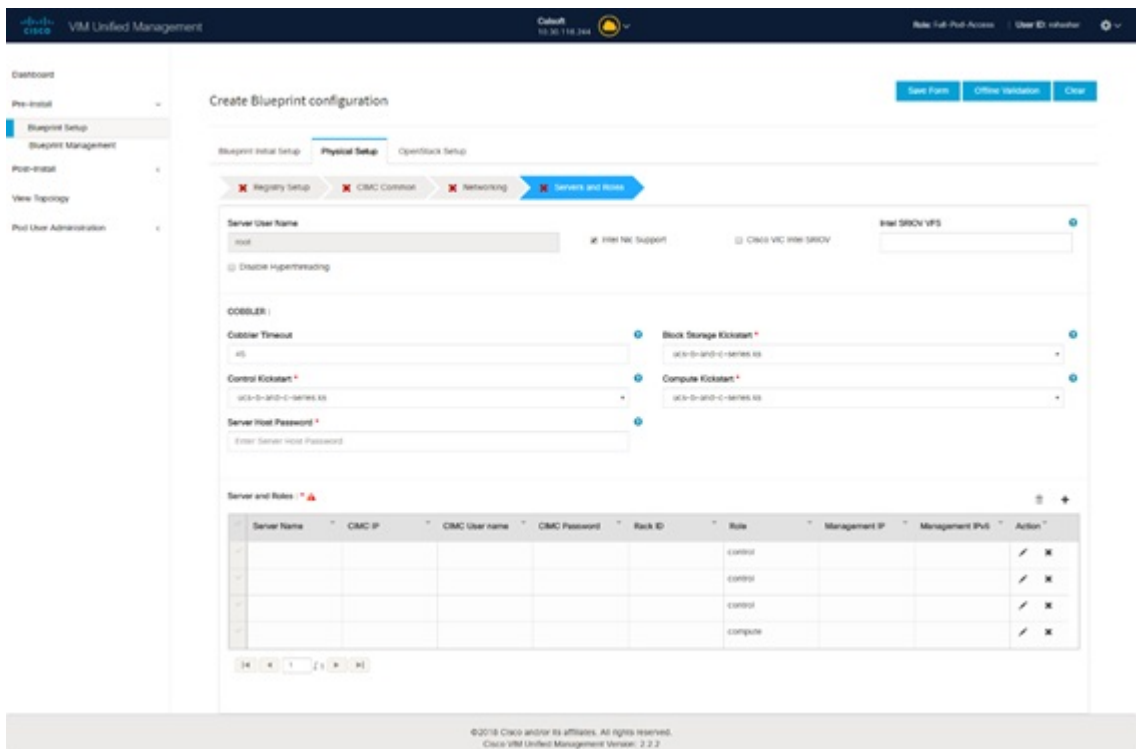
Name	Description
Networks table	

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"> <thead> <tr> <th data-bbox="922 1264 1224 1310">Name</th> <th data-bbox="1224 1264 1518 1310">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="922 1310 1224 1444">VLAN field</td> <td data-bbox="1224 1310 1518 1444">Enter the VLAN ID. For Segment - Provider, the VLAN ID value is 'none'.</td> </tr> <tr> <td data-bbox="922 1444 1224 1858">Segment drop-down list</td> <td data-bbox="1224 1444 1518 1858">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 • Storage </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 • Storage
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 • Storage 						

Name	Description	
		<ul style="list-style-type: none"> • External • Provider • ACIINFRA <p>Note Aciinfra 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: 10.1.15-10.1.1.10,102.15-102.1.10 This field is available only for the Mgmt/Provision, Storage, and Tenant segments.
	IPv6 Pool field	Enter the pool information in the required format. For example: 10.1.15-10.1.1.10,102.15-102.1.10

Name	Description
	Allowed only when ToR is NCS-5500 Can only be defined for management/provision, storage, and tenant segments
	Click Save .

- e. 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.

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>Add Entry to Servers and Roles</p> <p>Note when Pod type micro is selected then all the three servers will be associated with control, compute and block storage role.</p> <p>For Example:</p> <p>Roles</p> <ul style="list-style-type: none"> • Block Storage <ul style="list-style-type: none"> • -Server 1 • -Server 2 • -Server 3 • Control <ul style="list-style-type: none"> • -Server 1 • -Server 2 • -Server 3 • Compute <ul style="list-style-type: none"> • -Server 1 • -Server 2 • -Server 3 <p>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 style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <p style="text-align: center; margin: 0;">Server And Roles</p> <hr/> <div style="display: flex; flex-direction: column; gap: 10px;"> <div> <p>Server Name *</p> <input type="text" value="Enter Server Name"/> </div> <div> <p>VIC Slot</p> <input type="text" value="Enter VIC Slot"/> </div> <div> <p>CIMC IP *</p> <input type="text" value="Enter CIMC IP Address"/> </div> <div> <p>CIMC User Name</p> <input type="text" value="Enter CIMC Username"/> </div> <div> <p>CIMC Password</p> <input type="password" value="Enter CIMC Password"/> </div> <div> <p>Rack ID *</p> <input type="text" value="Enter Rack ID"/> </div> <div> <p>Role *</p> <input type="text" value="CONTROL"/> </div> <div> <p>Disable Hyperthreading</p> <input type="text"/> </div> <div> <p>Num Root Drive</p> <input type="text"/> </div> <div> <p>Root Drive Type</p> <input type="text"/> </div> <div> <p>VIC Admin FEC mode</p> <input type="text"/> </div> <div> <p>VIC Port Channel Enable</p> <input type="text"/> </div> <div> <p>Vendor</p> <input type="text"/> </div> <div> <p>Secure Computing Mode</p> <input type="text"/> </div> <div> <p>Management IP</p> <input type="text" value="Enter Management IP Address"/> </div> <div> <p>Storage IP</p> <input type="text" value="Enter Storage IP Address"/> </div> <div> <p>Management IPv6</p> <input type="text" value="Enter Management IPv6 Address"/> </div> </div> </div>		
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 5px;">Server Name</td> <td style="padding: 5px;">Entry the name of the server.</td> </tr> </table>	Server Name	Entry the name of the server.
Server Name	Entry the name of the server.		

Name	Description	
	Rack ID field	The rack ID for the server.
	VIC Slot field	Enter a VIC slot.
	CIMC IP	Enter an IP address. Both IPv4 and IPv6 supported.
	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.
	VIC Admin FEC mode	Applicable only for Cisco VIC that supports to change the admin FEC mode. Can be auto/off/c174/c191.
	VIC Port Channel Enable	Optional. Default is true. Can be either true or false.
	Secure Computing mode	Optional, can be either 0 or 1. By default,it is 1 if not defined.
	Nova CPU Allocation Ratio	Optional, overrides the NOVA_CPU_ALLOCATION_RATIO defined in openstack_config.yaml. Values are in the range of 0.958 to 16.0
	Nova RAM Allocation Ratio	Optional, overrides the NOVA_RAM_ALLOCATION_RATIO defined in openstack_config.yaml. Values are in the range of 1.0 to 4.0
	VM Hugepage Size	Optional, 2M or 1G. Overrides the global VM_HUGEPAGE_SIZE value, if NFV_HOSTS is enabled.
	Disable Hyperthreading	True or False. Optional, overrides the global hyper-threading configuration.

Name	Description	
	Root Drive Type	Optional, HDD or SSD in front or rear drive bay. M.2_SATA internal SSD. It is a mandatory configuration if booting off M.2 SATA SSD, and not valid for M4 platform.
	Management IP	It is an optional field, but if provided for one server then it is mandatory to provide it for other servers.
	Storage IP	It is an optional field but if provided for one server then it is mandatory to provide details for other servers.
	Vendor	Allows static override value for platform vendor instead of dynamic discovery at runtime. Can be CISCO - Cisco Systems Inc/ QCT - Quanta Cloud Technology Inc/ HPE - Hewlett Packard Enterprise.
	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.
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.

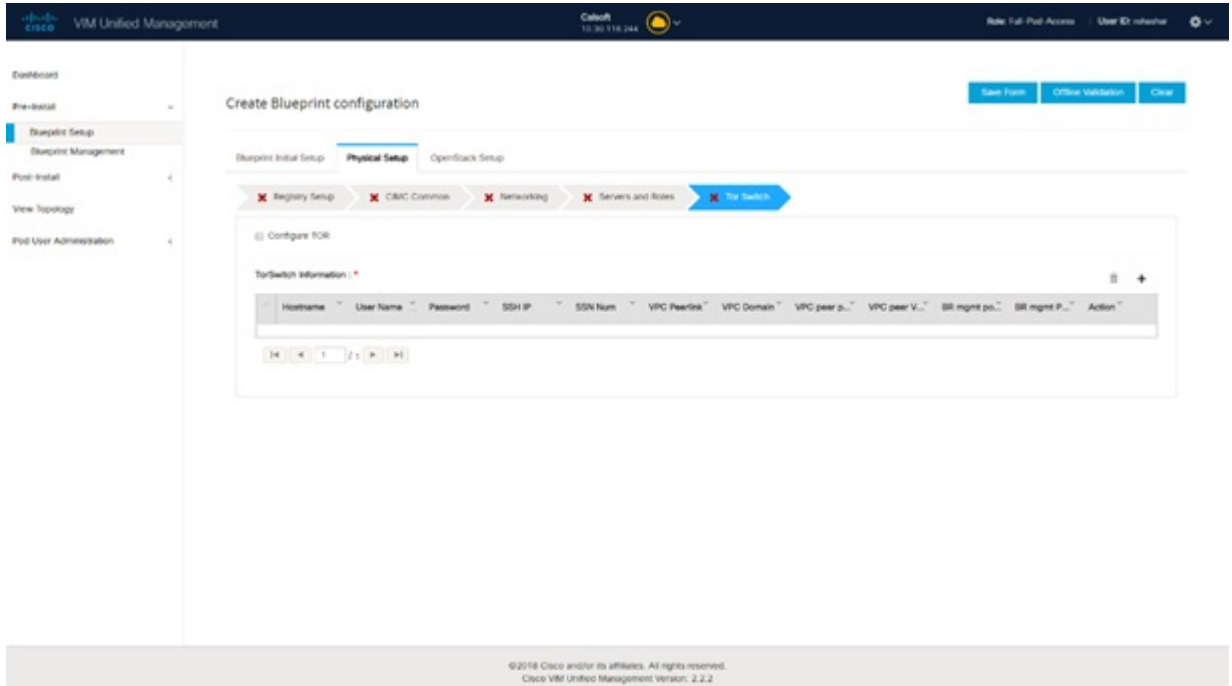
Name	Description				
<p>SRIOV TOR INFO (Only for Compute Nodes). It is mandatory in server and roles if Intel NIC and Configure TOR is True. with TOR TYPE Nexus. For TOR TYPE NCS-5500 these fields are optional Switch Name (Mandatory if Configure ToR is true). This field appears only when Intel NIC support is true, as Auto TOR config is not supported in VIC_NIC combo</p>	<table border="1"> <tr> <td data-bbox="886 281 1187 336"> <ul style="list-style-type: none"> • Switch Name field </td> <td data-bbox="1187 281 1515 336"> <ul style="list-style-type: none"> • Enter the switch name. </td> </tr> <tr> <td data-bbox="886 336 1187 552"> <ul style="list-style-type: none"> • Switch Port Info field </td> <td data-bbox="1187 336 1515 552"> <ul style="list-style-type: none"> • Enter the switch port information. </td> </tr> </table>	<ul style="list-style-type: none"> • Switch Name field 	<ul style="list-style-type: none"> • Enter the switch name. 	<ul style="list-style-type: none"> • Switch Port Info field 	<ul style="list-style-type: none"> • Enter the switch port information.
<ul style="list-style-type: none"> • Switch Name field 	<ul style="list-style-type: none"> • Enter the switch name. 				
<ul style="list-style-type: none"> • Switch Port Info field 	<ul style="list-style-type: none"> • Enter the switch port information. 				
<p>Intel SRIOV VFS (valid for Intel NIC testbeds) and can be integer.</p>	<p>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)</p>				
<p>INTEL_SRIOV_PHYS_PORTS (valid for Intel NIC test beds) and can be of value 2 or 4 (default is 2)</p>	<p>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 Cisco NCS 5500 this value is set to 4 and is non-editable.</p>				
<p>Click Save or Add .</p>	<p>If all mandatory fields are filled click Save or Add to add information on Servers and Roles.</p>				
<p>Disable Hyperthreading</p>	<p>Default value is false. You can set it as true or false.</p>				
<p>Click Save</p>					

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.

- f. 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.



Name	Description
<p>Configure ToR optional checkbox.</p> <p>Note If UMHC is selected as podtype, configure TOR is not allowed.</p>	<p>Enabling this checkbox, changes the configure ToR section from false to true.</p> <p>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.	

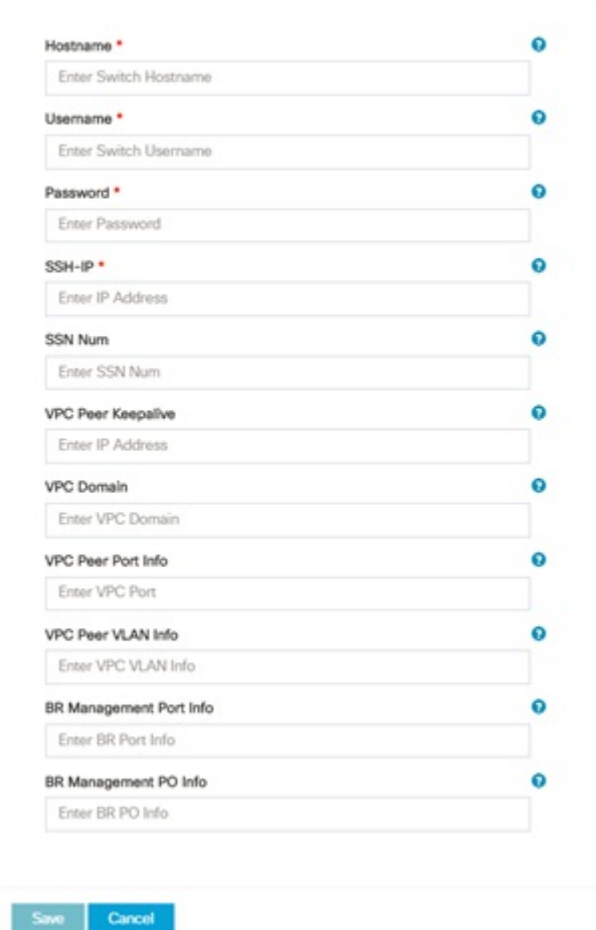
Name	Description																
	<p>Click (+) to add information for ToR Switch.</p> <p>Switch Details</p> <div style="border: 1px solid #ccc; padding: 10px;"> <p>Hostname * ⓘ</p> <input type="text" value="Enter Switch Hostname"/> <p>Username * ⓘ</p> <input type="text" value="Enter Switch Username"/> <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%;"> <thead> <tr> <th data-bbox="792 1373 1138 1428">Name</th> <th data-bbox="1138 1373 1479 1428">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="792 1428 1138 1482">Name</td> <td data-bbox="1138 1428 1479 1482">ToR switch name.</td> </tr> <tr> <td data-bbox="792 1482 1138 1537">Username</td> <td data-bbox="1138 1482 1479 1537">ToR switch username.</td> </tr> <tr> <td data-bbox="792 1537 1138 1591">Password</td> <td data-bbox="1138 1537 1479 1591">ToR switch password.</td> </tr> <tr> <td data-bbox="792 1591 1138 1646">SSH IP</td> <td data-bbox="1138 1591 1479 1646">ToR switch SSH IP.</td> </tr> <tr> <td data-bbox="792 1646 1138 1701">SSN Num</td> <td data-bbox="1138 1646 1479 1701">ToR switch ssn num.</td> </tr> <tr> <td data-bbox="792 1701 1138 1801">VPC Peer Keepalive</td> <td data-bbox="1138 1701 1479 1801">Peer Management IP. You cannot define if there is no peer.</td> </tr> <tr> <td data-bbox="792 1801 1138 1858">VPC Domain</td> <td data-bbox="1138 1801 1479 1858">Cannot define if there is no</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.	VPC Domain	Cannot define if there is no
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.																
VPC Domain	Cannot define if there is no																

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

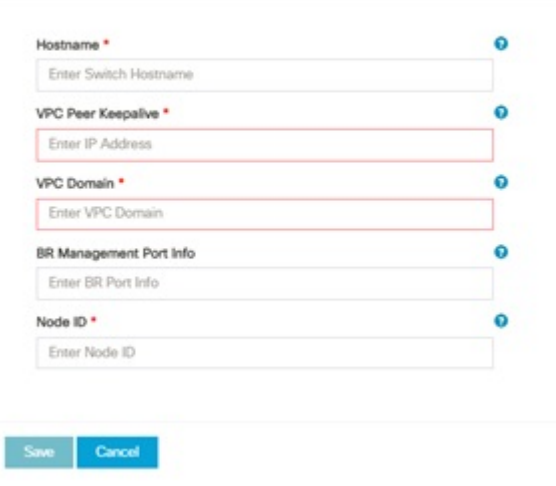
Name	Description	
<p>Configure ToR optional checkbox.</p> <p>Note If UMHC is selected as podtype, configure TOR is not allowed.</p>	<p>Enabling this checkbox, changes the configure ToR section from false to true.</p> <p>Note Configure tor is true then ToR switch info maps in servers</p>	

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> 																
	<table border="1"> <thead> <tr> <th data-bbox="831 1379 1177 1428">Name</th> <th data-bbox="1177 1379 1520 1428">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="831 1428 1177 1484">Name</td> <td data-bbox="1177 1428 1520 1484">ToR switch name.</td> </tr> <tr> <td data-bbox="831 1484 1177 1541">Username</td> <td data-bbox="1177 1484 1520 1541">ToR switch username.</td> </tr> <tr> <td data-bbox="831 1541 1177 1598">Password</td> <td data-bbox="1177 1541 1520 1598">ToR switch password.</td> </tr> <tr> <td data-bbox="831 1598 1177 1654">SSH IP</td> <td data-bbox="1177 1598 1520 1654">ToR switch SSH IP.</td> </tr> <tr> <td data-bbox="831 1654 1177 1711">SSN Num</td> <td data-bbox="1177 1654 1520 1711">ToR switch ssn num.</td> </tr> <tr> <td data-bbox="831 1711 1177 1801">VPC Peer Keepalive</td> <td data-bbox="1177 1711 1520 1801">Peer Management IP. You cannot define if there is no peer.</td> </tr> <tr> <td data-bbox="831 1801 1177 1858">VPC Domain</td> <td data-bbox="1177 1801 1520 1858">Cannot define if there is no</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.	VPC Domain	Cannot define if there is no
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.																
VPC Domain	Cannot define if there is no																

Name	Description	
		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="922 913 1528 1323"> <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-500 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>												
	<table border="1" style="width: 100%;"> <thead> <tr> <th data-bbox="920 1430 1224 1482">Name</th> <th data-bbox="1224 1430 1521 1482">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="920 1482 1224 1572">Name</td> <td data-bbox="1224 1482 1521 1572">Enter the NCS-5500 hostname.</td> </tr> <tr> <td data-bbox="920 1572 1224 1663">User Name</td> <td data-bbox="1224 1572 1521 1663">Enter the NCS-5500 username.</td> </tr> <tr> <td data-bbox="920 1663 1224 1753">Password</td> <td data-bbox="1224 1663 1521 1753">Enter the NCS-5500 password.</td> </tr> <tr> <td data-bbox="920 1753 1224 1843">SSH IP</td> <td data-bbox="1224 1753 1521 1843">Enter the NCS-5500 ssh IP Address.</td> </tr> <tr> <td data-bbox="920 1843 1224 1871">VPC Peer Link</td> <td data-bbox="1224 1843 1521 1871">Peer management IP.</td> </tr> </tbody> </table>	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	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. Optional, if TOR-TYPE is NCS-5500. Entry not allowed when ESI_PREFIX is defined.

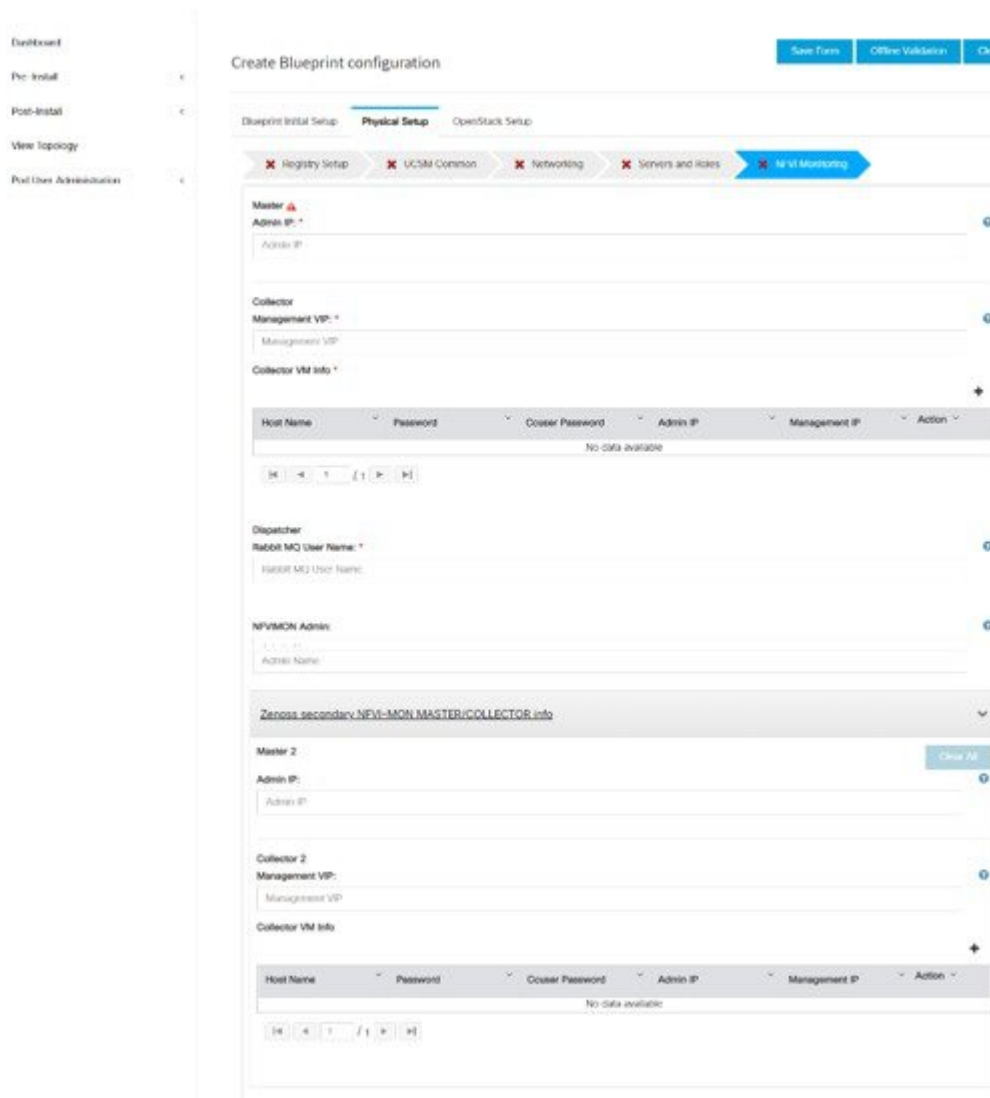
When TOR-TYPE selected as NCS-5500 and 2 NCS-5500 are configured, it is mandatory to configure MULTI_SEGMENT_ROUTING_INFO

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).

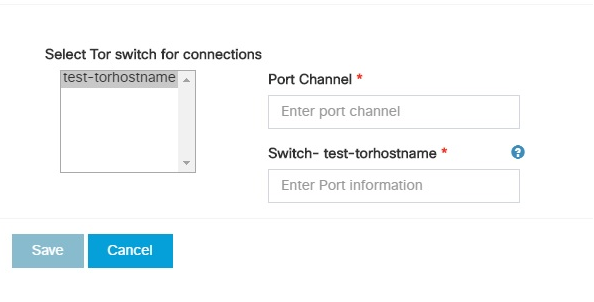
When TOR-TYPE is NCS-5500, you can optionally define ESI_PREFIX field.

Name	Description
ESI_PREFIX	Ethernet-segment identifier type Example: 91.<Pod_number>.<pod_region_number>.00.00.00.00.

- g. Click **NFVI Monitoring** checkbox in Blueprint Initial Setup, to enable the NFVI Monitoring configuration tab. NFVIMON can be un-configured once configured.



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

Name	Description				
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				
Master 2	Optional, but becomes mandatory if collector 2 is defined. Must contain valid Admin IP.				
Collector 2	Optional, but becomes mandatory if Master 2 is defined. Collector 2 is secondary set to collector and with all the properties of Collector. Contains Management VIP and Collector VM information.				
NFVIMON ADMIN	Optional and reconfigurable to add/update user id. Once enabled, you must have only one admin.				
Collector ToR Connections	<ol style="list-style-type: none"> Click on (+) icon to Add Collector ToR Connections. Select the ToR switches from list to add the information. It is optional and available for ToR type NCS-5500 For now, it supports adding only one Collector ToR Connection <p>Add Collector Tor Connections</p>  <table border="1" data-bbox="883 1608 1487 1738"> <tr> <td>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.				

- h. Click CVIMMON option in **Blueprint Initial Setup** to enable the **CVIM Monitoring** configuration tab.

Save Form Offline Validation Clear

Create Blueprint configuration

Blueprint Initial Setup
Physical Setup
OpenStack Setup

✗ Registry Setup
✗ UCSM Common
✗ Networking
✗ Servers and Roles
✔ CVIMMON

Enable

UI Access

Polling Intervals

Low Frequency	1	m	⊕
Medium Frequency	30	s	⊕
High Frequency	15	s	⊕
CVIMMON Central			⊕

External Servers

Server IP	Action
No Data Available	

LDAP Group Mappings

Group DN	Org Role	Action
No Data Available		

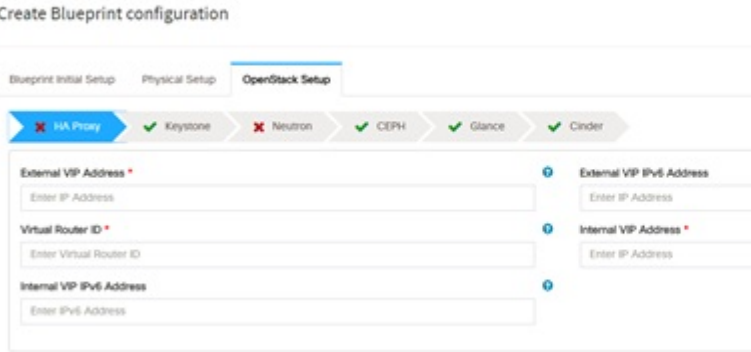
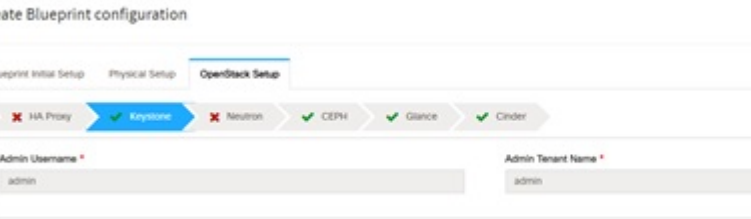
Domain Mappings

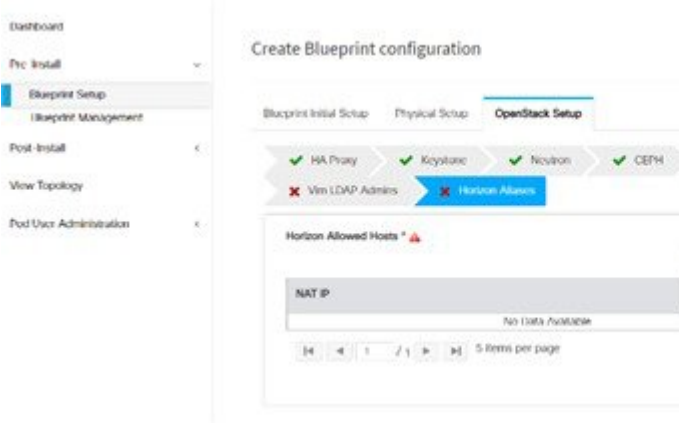
Domain Name	Attributes	Bind DN	Bind Password	LDAP URI	Search Base D	Search Filter	Action
No Data Available							

Name	Description
Enable	By default, it is false. It is case-sensitive and can be True or False
UI Access	Optional, and if not defined it is set to True by default. With this option disabled, CVIM_MON with SNMP is available but you cannot access Grafana, Alert-Manager, and Prometheus UIs
Polling Interval	Optional. Denotes 's' for seconds, m for minutes, and h for hours

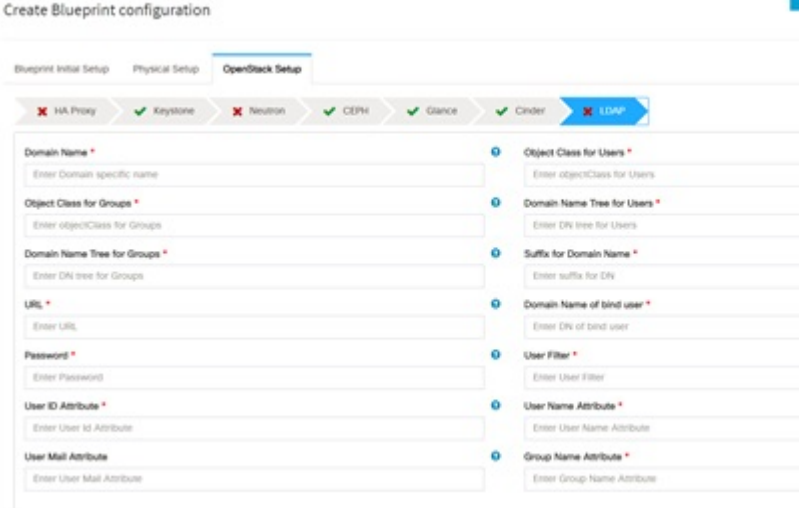
Name	Description
High Frequency	Minimum of 10 seconds (10s) and maximum of 60 mins (1h). If not defined, defaults to 15s.
Medium Frequency	Minimum of 30 seconds (30s) and maximum of 60 mins (1h). If not defined, defaults to 30s. It must be more than high interval
Low Frequency	Minimum of 1 minute (1m) and maximum of 60 mins (1h). If not defined, defaults to 1 minute. It must be more than medium interval.
CVIMMON Central	Optional, if not defined, defaults to False. With this option enabled, you will get central CVIM-MON (only telegraf agents running on pod), without local Prometheus, AlertManager, or Grafana
External Servers	Optional, list of external server IPs (v4 or v6) to be monitored by CVIM MON
CVIMMON LDAP	If defined, the group mappings and domain mappings are mandatory.
group_mappings	Must contain at least one group with org_role Admin Optionally, you can add a second group with org_role Viewer
domain_mappings	Must contain one domain exactly.
domain_name	Any non-empty name is acceptable.
attributes	All subkeys are mandatory
bind_dn	Describes the user that can connect to the LDAP server to check credentials. It can be a read-only user or refer to a group that matches all possible users.
bind_password	This is the password of the bind_dn user. When the bind_dn is a group, this field must be omitted.
ldap_uri	The URI used to connect to the LDAP servers One or multiple URIs are configurable and separated by a comma.
search_base_dns	The base dns name used for all queries
search_filter	Filter used for the queries

- i. Click **OpenStack Setup** Tab to advance to the **OpenStack Setup** Configuration page. On the **OpenStack Setup** Configuration page of the Cisco VIM Unified Management wizard, complete the following fields:

Name	Description										
<p>HA Proxy</p>	<p>Fill in the following details:</p>  <table border="1" data-bbox="841 806 1531 1220"> <tr> <td>External VIP Address field</td> <td>Enter IP address of External VIP.</td> </tr> <tr> <td>External VIP Address IPv6 field</td> <td>Enter IPv6 address of External VIP.</td> </tr> <tr> <td>Virtual Router ID field</td> <td>Enter the Router ID for HA.</td> </tr> <tr> <td>Internal VIP Address IPv6 field</td> <td>Enter IPv6 address of Internal IP.</td> </tr> <tr> <td>Internal VIP Address field</td> <td>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="841 1591 1531 1703"> <tr> <td>Admin User Name</td> <td>admin.</td> </tr> <tr> <td>Admin Tenant Name</td> <td>admin.</td> </tr> </table>	Admin User Name	admin.	Admin Tenant Name	admin.						
Admin User Name	admin.										
Admin Tenant Name	admin.										

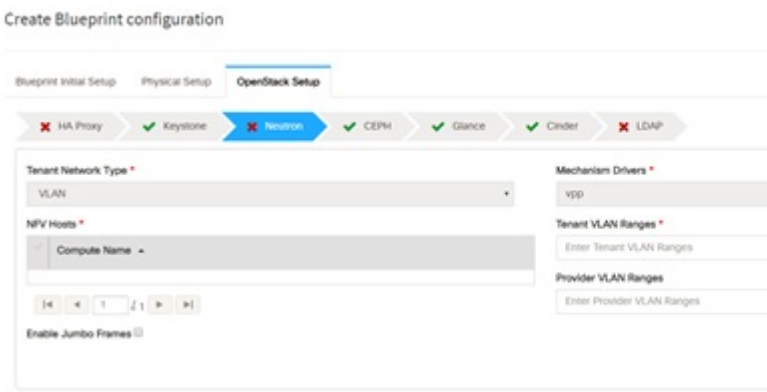
Name	Description
<p>Horizon Aliases</p>	<p>If the external_lb_vip is behind a NAT router or with a DNS alias, provide a list of those addresses.</p>  <p>Horizon Allowed hosts– NAT IP : Uses comma separated list of IP addresses and/or DNS names</p>

Name	Description
LDAP	

Name	Description																										
	<p>LDAP enable checkbox which by default is false, if LDAP is enabled on keystone.</p>  <table border="1" data-bbox="803 934 1485 1837"> <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.																										

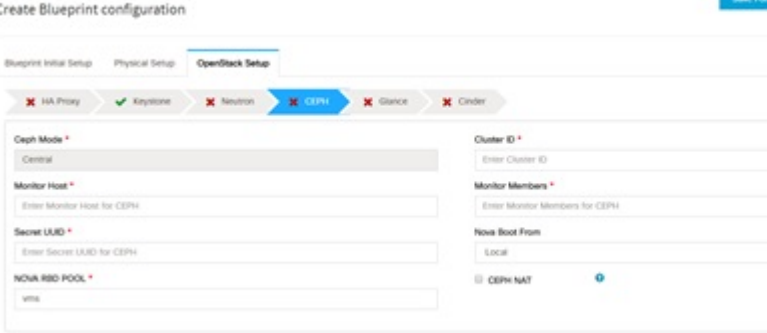

Name	Description		
	<table border="1"><tr><td data-bbox="839 281 1182 331">Group Name Attribute field</td><td data-bbox="1182 281 1521 331">Enter a string.</td></tr></table>	Group Name Attribute field	Enter a string.
Group Name Attribute field	Enter a string.		

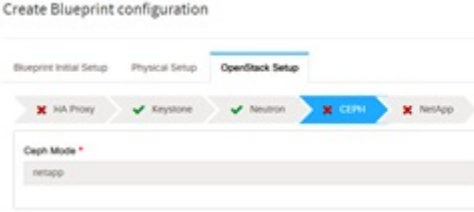
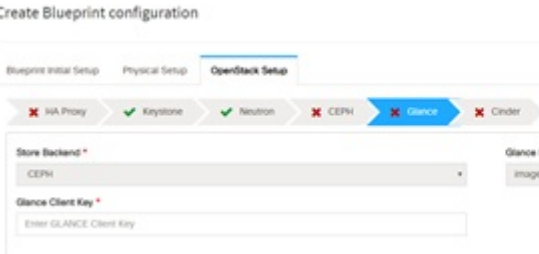
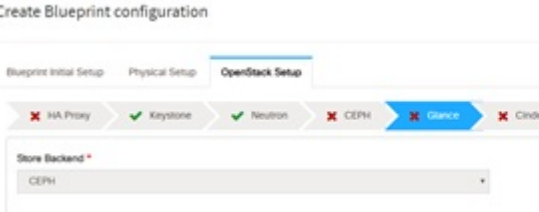
Name	Description
Neutron	

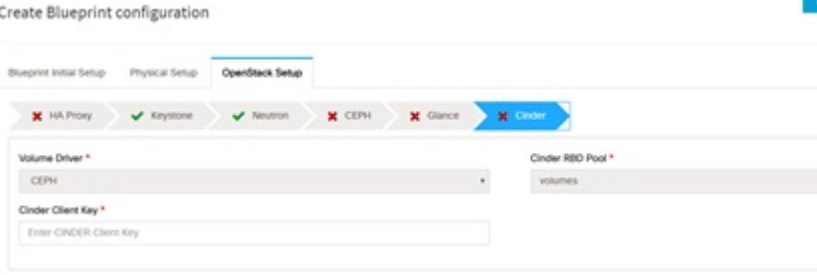
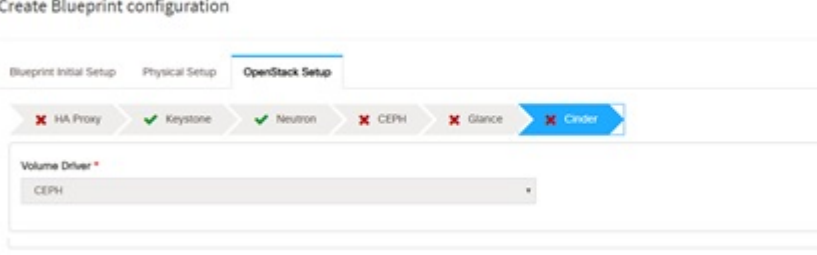
Name	Description														
	<p>Neutron fields would change on the basis of Tenant Network Type Selection from Blueprint Initial Setup. Following are the options available for Neutron for OVS/VLAN:</p>  <table border="1"> <tr> <td data-bbox="839 829 1182 949">Tenant Network Type field</td> <td data-bbox="1182 829 1523 949">Auto Filled based on the Tenant Network Type selected in the Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="839 949 1182 1071">Mechanism Drivers field</td> <td data-bbox="1182 949 1523 1071">Auto Filled based on the Tenant Network Type selected in Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="839 1071 1182 1449">NFV Hosts field</td> <td data-bbox="1182 1071 1523 1449">Auto filled with the Compute you added in Server and Roles. If you select All in this section NFV_HOSTS: ALL will be added to the Blueprint or you can select one particular compute. For Eg: NFV_HOSTS: compute-server-1, compute-server-2.</td> </tr> <tr> <td data-bbox="839 1449 1182 1537">Tenant VLAN Ranges field</td> <td data-bbox="1182 1449 1523 1537">List of ranges separated by comma form start:end.</td> </tr> <tr> <td data-bbox="839 1537 1182 1625">Provider VLAN Ranges field</td> <td data-bbox="1182 1537 1523 1625">List of ranges separated by comma form start:end.</td> </tr> <tr> <td data-bbox="839 1625 1182 1747">VM Hugh Page Size (available for NFV_HOSTS option) field</td> <td data-bbox="1182 1625 1523 1747">2M or 1G (optional, defaults to 2M)</td> </tr> <tr> <td data-bbox="839 1747 1182 1835">VM_HUGHPAGE_PERCENTAGE</td> <td data-bbox="1182 1747 1523 1835">Optional, defaults to 100%; can range between 0 and 100</td> </tr> </table>	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	Auto filled with the Compute you added in Server and Roles. If you select All in this section NFV_HOSTS: ALL will be added to the Blueprint or you can select one particular compute. For Eg: NFV_HOSTS: compute-server-1, compute-server-2.	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
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	Auto filled with the Compute you added in Server and Roles. If you select All in this section NFV_HOSTS: ALL will be added to the Blueprint or you can select one particular compute. For Eg: NFV_HOSTS: compute-server-1, compute-server-2.														
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
	<p>VSWITCH_WORKER_PROFILE Allowed only for VPP</p> <p>Optionally available options: numa_zero and even</p> <ul style="list-style-type: none"> • numa_zero: Reserved cores will always reside in NUMA node 0. • Even : Reserved cores will be evenly distributed across all NUMA.
	<p>NR_RESERVED_VSWITCH_PCORES Allowed only for VPP</p> <p>Number of cores associated to VPP, defaults to 2.</p>
	<p>Enable Jumbo Frames field Enable the checkbox</p>
	<p>For Tenant Network Type Linux Bridge everything remains the same but Tenant VLAN Ranges will be removed.</p>



Name	Description
CEPH	

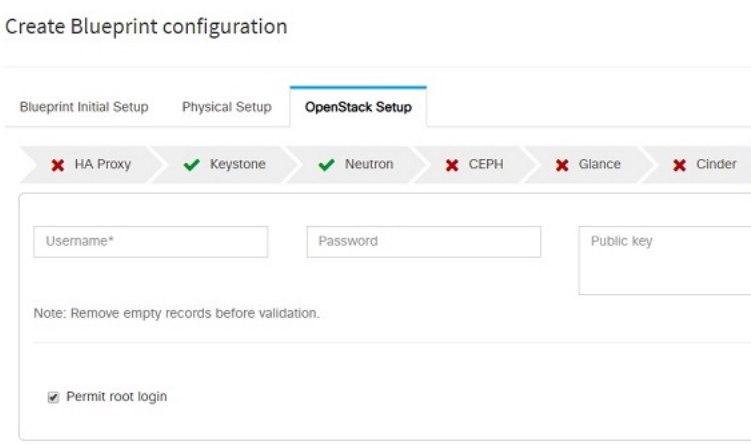
Name	Description																
	<p>1. 1. When Object Storage Backend is selected Central in blueprint initial setup.</p>  <table border="1" data-bbox="846 751 1485 1255"> <tr> <td>CEPH Mode</td> <td>By default Central.</td> </tr> <tr> <td>Cluster ID</td> <td>Enter Cluster ID.</td> </tr> <tr> <td>Monitor 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. • Cinder Percentage: Must be 60 when Nova Boot From is local, and must be 40 when Nova Boot is Ceph • Nova Percentage: Only applicable when Nova Boot From 	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>is Ceph. Must be 30% otherwise.</p> <ul style="list-style-type: none"> • Glance Percentage : Must be 40 when Nova Boot From is local, and must be 30 when NOVA Boot From is Ceph. If Ceilometer is enabled, it must be 35% for Nova Boot from local and 25% for NOVA Boot From is Ceph. • Gnocchi Percentage: Only applicable when ceilometer is enabled, and must be 5%. <p>3. When Object Storage Backend is selected NetApp in blueprint initial setup.</p>  <ul style="list-style-type: none"> • Ceph mode : By default, it is NetApp • Cinder Percentage : Must be 60% • Glance Percentage: Must be 40%
<p>GLANCE</p>	<p>1. When Object Storage Backend is selected Central in blueprint initial setup.</p>  <p>When Object Storage Backend is selected Dedicated in blueprint initial setup.</p>  <p>Note By default Populated for CEPH Dedicated with Store Backend value as CEPH.</p>

Name	Description
<p>CINDER</p>	<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.	

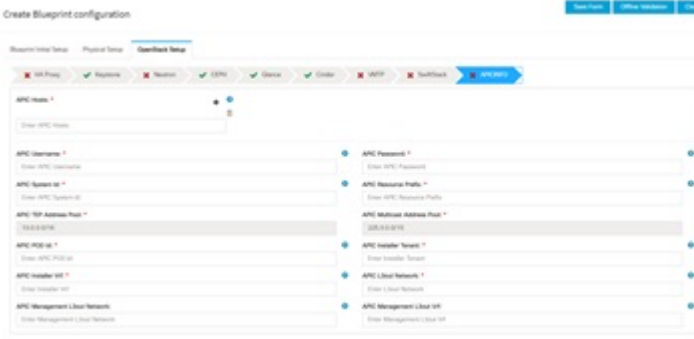
Name	Description		
	<p>Check one of the check boxes to specify a VMTP network:</p> <ul style="list-style-type: none"> • Provider Network • External Network <p>For the Provider Network complete the following:</p> <p>Create Blueprint configuration</p> 		
	<table border="1"> <tr> <td data-bbox="803 926 1144 997">Network Name field</td> <td data-bbox="1144 926 1479 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="803 1010 1144 1081">Subnet field</td> <td data-bbox="1144 1010 1479 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="803 1100 1144 1171">Network IP Start field</td> <td data-bbox="1144 1100 1479 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="803 1190 1144 1262">Network IP End field</td> <td data-bbox="1144 1190 1479 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="803 1281 1144 1352">Network Gatewayfield</td> <td data-bbox="1144 1281 1479 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="803 1371 1144 1442">DNS Server field</td> <td data-bbox="1144 1371 1479 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="803 1461 1144 1491">Segmentation ID field</td> <td data-bbox="1144 1461 1479 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. 					
<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>  <table border="1" data-bbox="831 1606 1526 1810"> <tr> <td data-bbox="831 1606 1182 1669">User Name</td> <td data-bbox="1182 1606 1526 1669">Enter username</td> </tr> <tr> <td data-bbox="831 1669 1182 1810">Password</td> <td data-bbox="1182 1669 1526 1810">Password field. Admin hash password should always start with \$6.</td> </tr> </table>		User Name	Enter username	Password	Password field. Admin hash password should always start with \$6.
User Name	Enter username					
Password	Password field. Admin hash password should always start with \$6.					

Name	Description
Vim LDAP Admins: Optional entry to support LDAP for admin access to management node. For this feature, TLS has to be enabled for the external api (i.e. <code>external_lb_vip_tls: True</code>).	

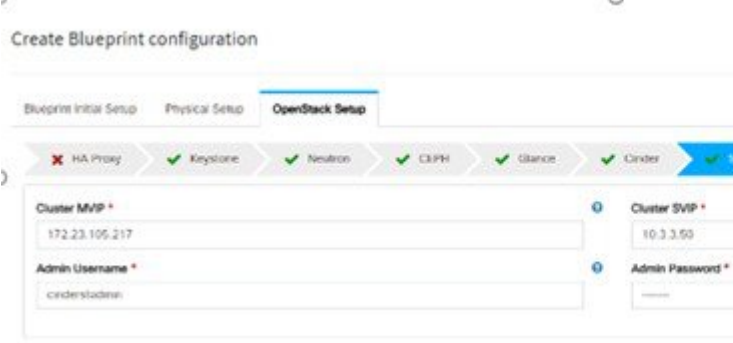
Name	Description				
	<p>Following are the values to be filled to add vim LDAP admins:</p> <div data-bbox="841 342 1534 1606" style="border: 1px solid #ccc; padding: 10px;"> <p style="text-align: center;">Add Vim LDAP Admins</p> <p>Domain Name * <input type="text" value="Enter Domain Name"/></p> <p>LDAP URI * <input type="text" value="Enter LDAP uri Name"/></p> <p>LDAP Search Base * <input type="text" value="Enter Search Base"/></p> <p>LDAP Schema <input type="text" value="Enter LDAP Schema"/></p> <p>LDAP User object Class <input type="text" value="Enter LDAP User object Class"/></p> <p>LDAP User UID number <input type="text" value="Enter LDAP User UID number"/></p> <p>LDAP User GID number <input type="text" value="Enter LDAP User GID number"/></p> <p>LDAP Group Member <input type="text" value="Enter LDAP Group Member"/></p> <p>LDAP Default Bind DN <input type="text" value="Enter LDAP Default Bind DN"/></p> <p>LDAP Default Auth Token <input type="text" value="Enter LDAP Default Auth Token"/></p> <p>LDAP Default Auth Token Type <input type="text" value="Enter LDAP Default Auth Token Type"/></p> <p>Ldap Group Search Base <input type="text" value="Enter Ldap Group Search Base"/></p> <p>Ldap User Search Base <input type="text" value="Enter Ldap User Search Base"/></p> <p>Access Provider <input type="text" value="Enter Access Provider"/></p> <p>Simple Allow Groups <input type="text" value="Enter Simple Allow Groups"/></p> <p>LDAP ID use start TLS <input type="text" value="Select"/></p> <p>LDAP TLS Request Certificate <input type="text" value="Select"/></p> <p>Chpass Provider <input type="text" value="Select"/></p> <p style="text-align: center;"> <input type="button" value="Save"/> <input type="button" value="Cancel"/> </p> </div> <table border="1" data-bbox="841 1627 1526 1837"> <tr> <td data-bbox="841 1627 1182 1753">domain_name</td> <td data-bbox="1182 1627 1526 1753">Mandatory field. Indicates the domain name to define vim LDAP admins.</td> </tr> <tr> <td data-bbox="841 1753 1182 1837">ldap_uri</td> <td data-bbox="1182 1753 1526 1837">Mandatory. Ensure that ldap_uri is secured over ldaps.</td> </tr> </table>	domain_name	Mandatory field. Indicates the domain name to define vim LDAP admins.	ldap_uri	Mandatory. Ensure that ldap_uri is secured over ldaps.
domain_name	Mandatory field. Indicates the domain name to define vim LDAP admins.				
ldap_uri	Mandatory. Ensure that ldap_uri is secured over ldaps.				

Name	Description	
	ldap_search_base	Mandatory. Enter search base.
	ldap_schema	Optional. Enter the schema.
	ldap_user_object_class	Optional. Indicates the posix account.
	ldap_user_uid_number	Optional. Indicates the user ID.
	ldap_user_gid_number	Optional. Indicates the group ID.
	ldap_group_member	Optional. It is the group member ID.
	ldap_default_bind_dn	Optional. Enter default distinguished name
	ldap_default_authtok	Optional. Default authentication token
	ldap_default_authtok_type	Optional. Default authentication token type.
	ldap_group_search_base	Optional. Enter group search base.
	ldap_user_search_base	Optional. Enter user Search Base
	access_provider	Optional.
	simple_allow_groups	Optional
	ldap_id_use_start_tls	Optional .Can be true or false
	ldap_tls_reqcert	Optional . Can be never/allow/try/demand.
	chpass_provider	Optional. Can be ldap/krb5/ad/none

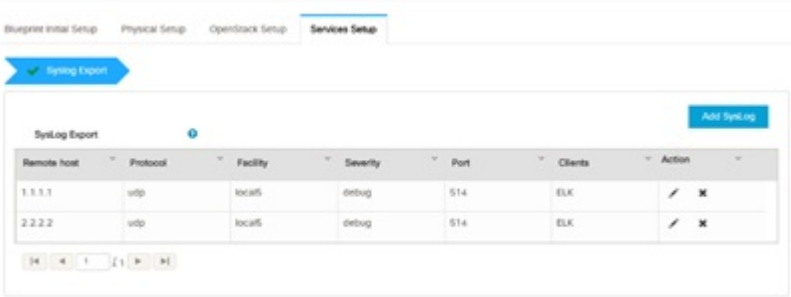
Name	Description																								
<p>APICINFO tab is available in Openstack setup, when the Tenant type ACI/VLAN is selected in blueprint initial setup.</p> <p>Note When ACI/VLAN is selected then ToR switch from initial setup is mandatory.</p>	 <table border="1"> <thead> <tr> <th data-bbox="829 661 1182 724">Name</th> <th data-bbox="1182 661 1534 724">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="829 724 1182 840">APIC Hosts field</td> <td data-bbox="1182 724 1534 840">Enter host input. Example: <ip1 host1>:[port] . max of 3, min of 1, not 2;</td> </tr> <tr> <td data-bbox="829 840 1182 898">apic_username field</td> <td data-bbox="1182 840 1534 898">Enter a string format.</td> </tr> <tr> <td data-bbox="829 898 1182 957">apic_password field</td> <td data-bbox="1182 898 1534 957">Enter Password.</td> </tr> <tr> <td data-bbox="829 957 1182 1050">apic_system_id field</td> <td data-bbox="1182 957 1534 1050">Enter input as string. Max length 8.</td> </tr> <tr> <td data-bbox="829 1050 1182 1108">apic_resource_prefix field</td> <td data-bbox="1182 1050 1534 1108">Enter string max length 6.</td> </tr> <tr> <td data-bbox="829 1108 1182 1167">apic_tep_address_pool field</td> <td data-bbox="1182 1108 1534 1167">Allowed only 10.0.0.0/16</td> </tr> <tr> <td data-bbox="829 1167 1182 1226">multiclass_address_pool field</td> <td data-bbox="1182 1167 1534 1226">Allowed only 225.0.0.0/15</td> </tr> <tr> <td data-bbox="829 1226 1182 1285">apic_pod_id field</td> <td data-bbox="1182 1226 1534 1285">Enter integer(1- 65535)</td> </tr> <tr> <td data-bbox="829 1285 1182 1344">apic_installer_tenant field</td> <td data-bbox="1182 1285 1534 1344">Enter String, max length 32</td> </tr> <tr> <td data-bbox="829 1344 1182 1402">apic_installer_vrf field</td> <td data-bbox="1182 1344 1534 1402">Enter String, max length 32</td> </tr> <tr> <td data-bbox="829 1402 1182 1459">api_l3out_network field</td> <td data-bbox="1182 1402 1534 1459">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 field	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
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 field	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																								

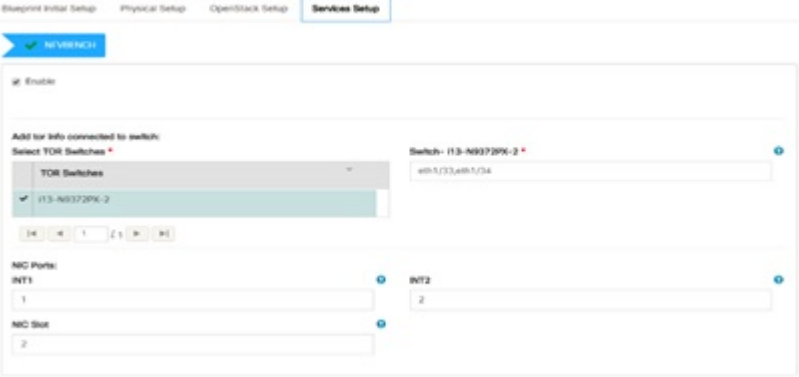
Name	Description														
<p>VTS tab is available in Openstack setup, when Tenant Type is VTS/VLAN selected.</p> <p>If vts day0 is enabled then SSH username and SSH password is mandatory.</p> <p>If SSH_username is input present then SSH password is mandatory vice-versa</p>	 <table border="1" data-bbox="799 562 1487 1003"> <thead> <tr> <th data-bbox="805 571 1143 625">Name</th> <th data-bbox="1149 571 1481 625">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="805 625 1143 680">VTS Day0 (checkbox)</td> <td data-bbox="1149 625 1481 680">True or false default is false.</td> </tr> <tr> <td data-bbox="805 680 1143 772">VTS User name</td> <td data-bbox="1149 680 1481 772">Enter as string does not contain special characters.</td> </tr> <tr> <td data-bbox="805 772 1143 827">VTS Password</td> <td data-bbox="1149 772 1481 827">Enter password</td> </tr> <tr> <td data-bbox="805 827 1143 882">VTS NCS IP</td> <td data-bbox="1149 827 1481 882">Enter IP Address format.</td> </tr> <tr> <td data-bbox="805 882 1143 936">VTC SSH Username</td> <td data-bbox="1149 882 1481 936">Enter a string</td> </tr> <tr> <td data-bbox="805 936 1143 991">VTC SHH Password</td> <td data-bbox="1149 936 1481 991">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
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														

j. For SolidFire, enter the following:

Name	Description								
<p>SolidFire is visible for configuration on day0</p> <p>SolidFire is not allowed as a day-2 deployment option</p> <p>SolidFire is always available with CEPH.</p>	 <table border="1" data-bbox="880 1524 1487 1833"> <tbody> <tr> <td data-bbox="886 1533 1101 1625">Cluster MVIP field</td> <td data-bbox="1107 1533 1481 1625">Management IP of SolidFire cluster.</td> </tr> <tr> <td data-bbox="886 1625 1101 1680">Cluster SVIP field</td> <td data-bbox="1107 1625 1481 1680">Storage VIP of SolidFire cluster.</td> </tr> <tr> <td data-bbox="886 1680 1101 1734">Admin Username</td> <td data-bbox="1107 1680 1481 1734">Admin user on SolidFire cluster</td> </tr> <tr> <td data-bbox="886 1734 1101 1827">Admin Password</td> <td data-bbox="1107 1734 1481 1827">Admin password on SolidFire cluster.</td> </tr> </tbody> </table>	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.
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.								

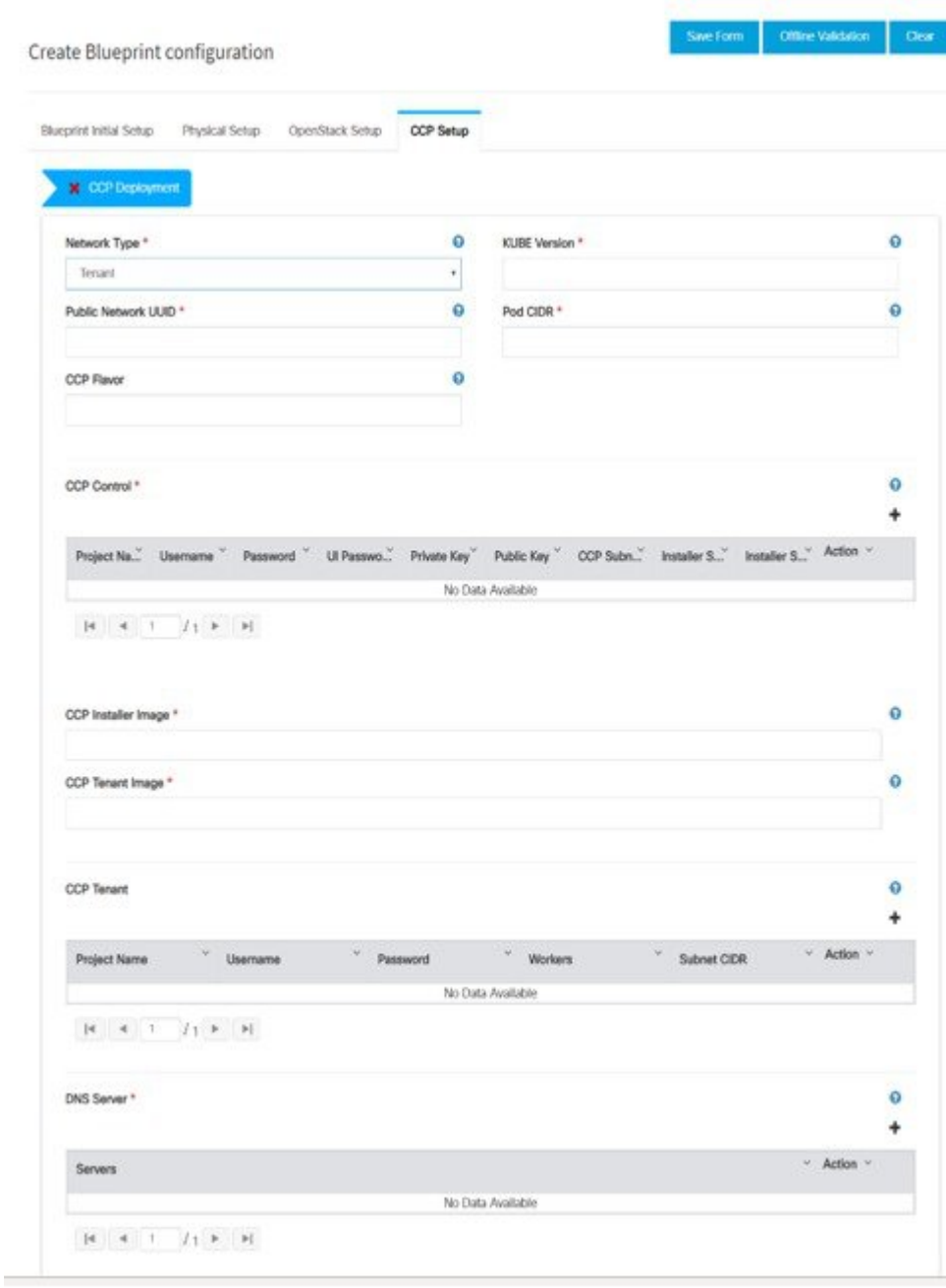
- k. If **Syslog Export** or **NFVBENCH** is selected in **Blueprint Initial Setup** Page, then **Services Setup** page will be enabled for user to view. Following are the options under **Services Setup** Tab:

Name	Description																					
<p>Syslog Export</p>	<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="662 877 1521 1255"> <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> </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> </td> </tr> </tbody> </table>	Remote Host	Protocol	Facility	Severity	Port	Clients	Action	1.1.1.1	udp	local5	debug	514	ELK		2.2.2.2	udp	local5	debug	514	ELK	
Remote Host	Protocol	Facility	Severity	Port	Clients	Action																
1.1.1.1	udp	local5	debug	514	ELK																	
2.2.2.2	udp	local5	debug	514	ELK																	
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
<p>NFVBENCH</p>	<p>NFVBENCH enable checkbox by default is false.</p> <p>Add ToR information connect to Switch:</p>  <p>The screenshot shows the 'Services Setup' tab for the NFVBENCH blueprint. It includes a section for 'Add for info connected to switch' with a dropdown for 'TOR Switches' (currently showing '113-N93720X-2') and a text input for 'Switch- 113-N93720X-2' with the value 'eth1/23,eth1/24'. Below this are 'NIC Ports' fields for 'INT1' (value 1) and 'INT2' (value 2), and 'NIC Slot' fields for '1' and '2'.</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 two different VLANs for VLAN1 and VLAN2. • NIC Ports: INT1 and INT2 optional input. Enter the two port numbers of the 4-port 10G Intel NIC at the management node used for NFVBench. NIC Slot: Optional input, indicates which NIC to use in case there are multiple NICs. <p>Note NIC port and slot need to be together.</p>
<p>ENABLE_ESC_PRIV</p>	<p>Enable the checkbox to set it as True. By default it is False.</p>

Name	Description												
<p>Ironic</p>	<p>Following are the options for Ironic :</p> <ul style="list-style-type: none"> • Ironic is applicable only for C-series and OVS/VLAN tenant network. • Ironic is available in optional service list. If ironic is enabled, the Ironic Segment under Networks Segment and Ironic Switch Details under Ironic are mandatory. <p>Create Blueprint configuration Save Form</p> <p>Blueprint Initial Setup Physical Setup OpenStack Setup Ironic Setup</p> <p>Ironic</p> <p>Note:</p> <ul style="list-style-type: none"> • Add ironic segment under Networking section • If ironic is enabled, Then Please take a look at ironic_inventory.yamlEXAMPLE and add the file <p>Ironic Switch Details ⚠</p> <p>Switch Type *</p> <p>Nexus</p> <p>HostName UserName Password SSH IP Switch Ports</p> <p>No Data Available</p>												
	<table border="1"> <tr> <td data-bbox="659 1213 805 1304">Switch Type</td> <td data-bbox="805 1213 1518 1304">It can be Nexus, ACI, or BypassNeutron</td> </tr> <tr> <td data-bbox="659 1304 805 1394">Hostname</td> <td data-bbox="805 1304 1518 1394">Enter ironic hostname. Required only if Switch Type is ACI or BypassNeutron.</td> </tr> <tr> <td data-bbox="659 1394 805 1484">Username</td> <td data-bbox="805 1394 1518 1484">Enter ironic username. Required only if Switch Type is ACI or BypassNeutron.</td> </tr> <tr> <td data-bbox="659 1484 805 1575">Password</td> <td data-bbox="805 1484 1518 1575">Enter the ironic password. Required only if Switch Type is ACI or BypassNeutron.</td> </tr> <tr> <td data-bbox="659 1575 805 1665">SSH IP</td> <td data-bbox="805 1575 1518 1665">Enter ironic switch SSH IP. Required only if Switch Type is ACI or BypassNeutron.</td> </tr> <tr> <td data-bbox="659 1665 805 1776">Switch Ports</td> <td data-bbox="805 1665 1518 1776">Optional. Indicates the ports that are in use to slap on inspector VLAN through Auto-ToR. Can be specified if Switch Type is ACI or BypassNeutron.</td> </tr> </table>	Switch Type	It can be Nexus, ACI, or BypassNeutron	Hostname	Enter ironic hostname. Required only if Switch Type is ACI or BypassNeutron.	Username	Enter ironic username. Required only if Switch Type is ACI or BypassNeutron.	Password	Enter the ironic password. Required only if Switch Type is ACI or BypassNeutron.	SSH IP	Enter ironic switch SSH IP. Required only if Switch Type is ACI or BypassNeutron.	Switch Ports	Optional. Indicates the ports that are in use to slap on inspector VLAN through Auto-ToR. Can be specified if Switch Type is ACI or BypassNeutron.
Switch Type	It can be Nexus, ACI, or BypassNeutron												
Hostname	Enter ironic hostname. Required only if Switch Type is ACI or BypassNeutron.												
Username	Enter ironic username. Required only if Switch Type is ACI or BypassNeutron.												
Password	Enter the ironic password. Required only if Switch Type is ACI or BypassNeutron.												
SSH IP	Enter ironic switch SSH IP. Required only if Switch Type is ACI or BypassNeutron.												
Switch Ports	Optional. Indicates the ports that are in use to slap on inspector VLAN through Auto-ToR. Can be specified if Switch Type is ACI or BypassNeutron.												

Name	Description
CCP	

Name	Description		
	<p>Cisco Container Platform is applicable only for C-series and OVS/VLAN tenant network.</p> <p>Ironic is available in optional service list. LBAAS must be enabled to define Cisco Container Platform.</p> 		
	<table border="1"> <tr> <td data-bbox="657 1780 883 1835">Network type</td> <td data-bbox="883 1780 1521 1835">It can be Tenant or Provider.</td> </tr> </table>	Network type	It can be Tenant or Provider.
Network type	It can be Tenant or Provider.		

Name	Description	
	Kubernetes Version	Version of Kubernetes to be installed
	Public Network UUID	UUID of Openstack external network or provider network
	Pod CIDR	Pod CIDR to use for calico network optional if not to be changed
	CCP Flavor	Optional, but mandatory when NFV_HOSTS is enabled during Cisco Container Platform installation.
	CCP Control	<p>Following fields are mandatory for network types tenant and provider.</p> <p>Project Name - Tenant name to create in Openstack to host tenant cluster</p> <p>Username - Username for openstack tenant</p> <p>Password - Password for the Openstack tenant</p> <p>UI Password - Password for Cisco Container Platform UI</p> <p>Private Key - Private key to be used to SSH to VM must be ed25519</p> <p>Public Key - Public key for Cisco Container Platform VMs, for example, /root/ecdsa-key.pub</p> <p>Following fields are mandatory for network type tenant:</p> <p>Cisco Container Platform Subnet - Subnet to create to deploy Cisco Container Platform control plane</p> <p>Installer Subnet - Subnet used for creating bootstrap installer</p> <p>Installer Subnet Gateway - Gateway used for bootstrap installer</p>
	CCP Installer Image	Pointer to the CCP Installer image (required)
	CCP Tenant Image	Pointer to CCP tenant cluster image (required)
	CCP Tenant	

Name	Description
	Fields are mandatory Project Name - Tenant name to be created in Openstack to host tenant cluster Username - Username for openstack tenant. Password - Password for tenant. Workers - Number of kubernetes workers in tenant cluster (required). Tenant Subnet CIDR - Tenant subnet CIDR.
	DNS Server - DNS server must be reachable from cloud (required)

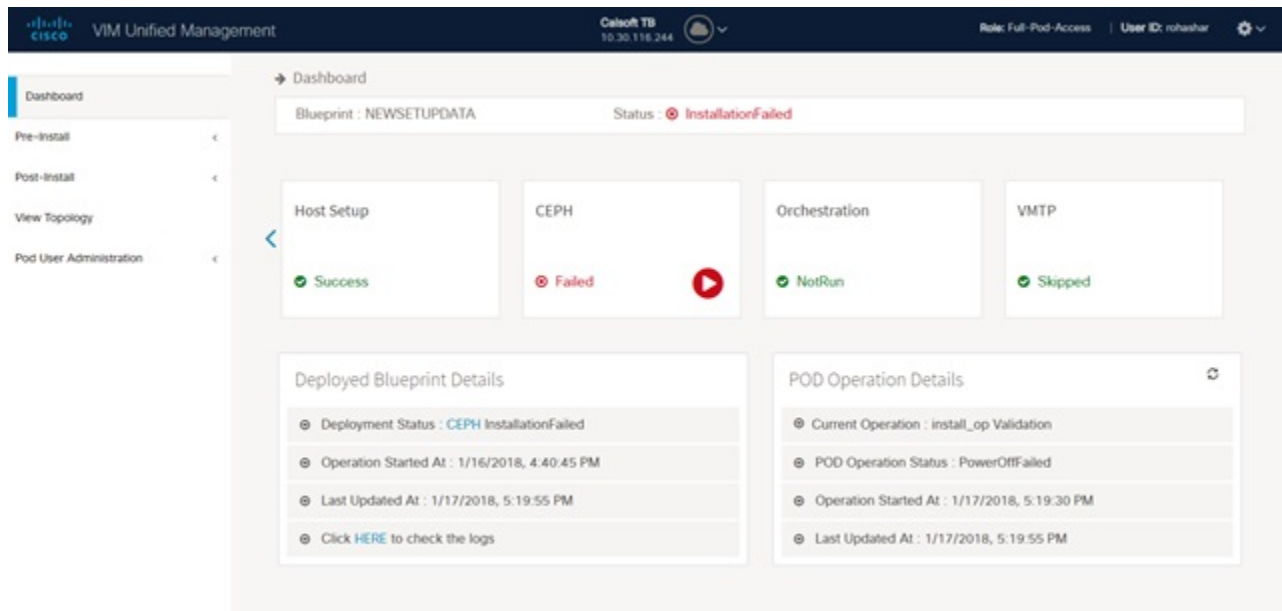
Step 5 Click **Offline validation** button to initiate an offline validation of the Blueprint.

Step 6 Once the **Offline validation** is successful, **Save** option will be enabled for you which when clicked would redirect you to the **Blueprint Management** page.

Redeploy Multiple Install Stages during Cisco VIM Installation using Unified Management

You can redeploy Cisco VIM in multiple stages during blueprint installation using the Cisco VIM Unified Management dashboard.

Step 1 When the blueprint installation status is in Active/failed/Installation failed and stage install status as Failed/NotRun/Skipped., the redeployed icon is displayed.



Step 2 Click **Redeploy** icon to redeploy multiple stages during installation. A confirmation dialogue box appears.

Confirm

Do you want to Deploy the 'NEWSETUPDATA' Blueprint?

Note:

Stages which are successfully installed will be disabled for selection.

- Step 1: Input Validation
- Step 2: Management Node Orchestration
- Step 3: Runtime Validation
- Step 4: Bare Metal
- Step 5: Host Setup
- Step 6: Ceph
- Step 7: Orchestration
- Step 8: VMTP

Proceed

Cancel

Step 3 Select the stages to be installed.

- Step 4** You can select the stages only in sequence. For example, you can select the VMTP stage (current) stage only if the Orchestration (previous) stage is selected for blueprint installation (assuming Orchestration was in Failed/NotRun state)
- Step 5** Click **Proceed** to run the installation.
-

Downloading Blueprint

Before you begin

You must have at least one blueprint (In any state Active/In-Active or In-progress), in the **Blueprint Management Page**.

- Step 1** Log in to **CISCO VIM Unified Management**.
- Step 2** In the navigation pane, expand the **Pre-Install Section**.
- Step 3** Click **Blueprint Management**.
- Step 4** Go-to **Download** for any Blueprint under Action title. (**Download Button** > **Downward Arrow** (with tooltip Preview & Download YAML)).
- Step 5** Click the **Download** icon.
A pop to view the Blueprint in the YAML format is displayed.
- Step 6** Click the **Download** button at the bottom left of the pop-up window.
YAML is saved locally with the same name of the Blueprint.
-

Validating Blueprint

- Step 1** Log in to **CISCO VIM Unified Management**.
- Step 2** In the **Navigation** pane, expand the **Pre-Install Section**.
- Step 3** Click **Blueprint Creation**.
- Step 4** Upload an existing YAML, or create a **New Blueprint**.
Fill all the mandatory fields so that all Red Cross changes to **Green Tick**.
- Step 5** Enter the name of the Blueprint.
- Step 6** Click **Offline Validation**.
Only, if the Validation is successful, the Unified Management allows you to save the blueprint.
-

What to do next

If you see any errors, a hyperlink is created for those errors. Click the link to be navigated to the page where error has been encountered.

Managing Post Install Features

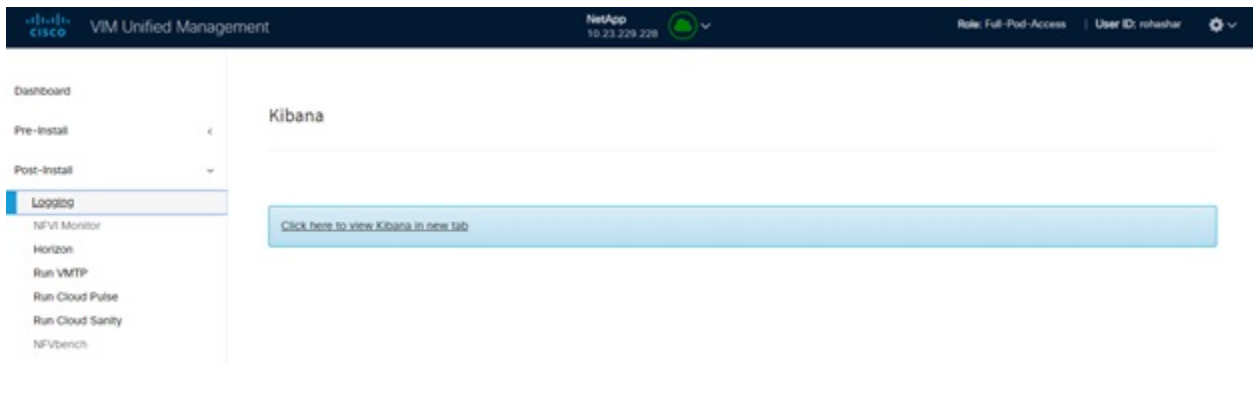
Cisco VIM provides an orchestration that helps in lifecycle management of a cloud. VIM is responsible for pod management activities which includes fixing both hardware and software issues with one-touch automation. VIM Unified Management provides the visualization of the stated goal. As a result, it integrates with POST install features that Cisco VIM offers through its Rest API. These features are enabled only if there is an active Blueprint deployment on the pod.

Monitoring the Pod

Cisco VIM uses EFK (Elasticsearch, Fluentd, and Kibana) to monitor the OpenStack services, by cross-launching the Kibana dashboard.

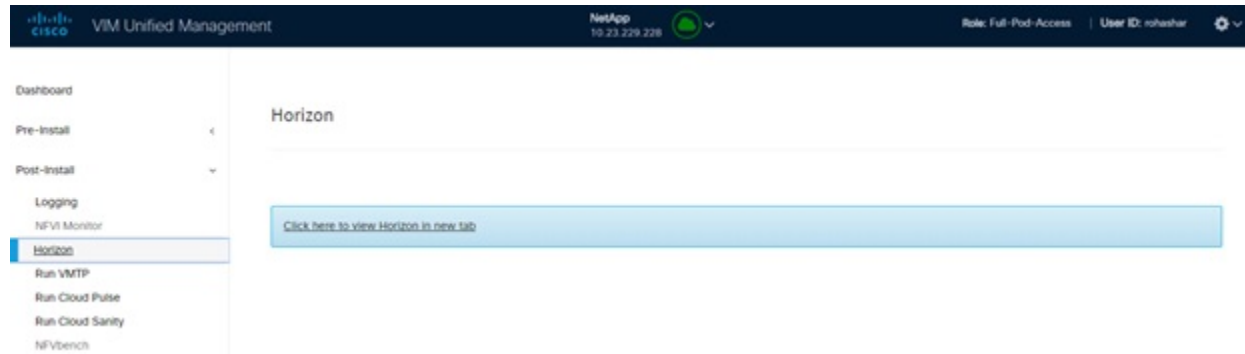
To cross launch Kibana, complete the following instructions:

- Step 1** In the navigation pane, click **Post-Install > Logging**.
- Step 2** Click **Click here to view Kibana in new tab**.
- Step 3** Enter the **Username** as Admin.
- Step 4** Enter the **Kibana_PASSWORD** password that is obtained from `/root/installer-<tagid>/openstack-configs/secrets.yaml` in the management node.



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 the link **Click here to view Horizon logs in new tab**. You will be redirected to Horizon landing page in a new tab.

Step 3 Enter the ADMIN_USER_PASSWORD obtained from /root/installer-`<tagid>/openstack-configs/secrets.yaml` in the management node.

NFVI Monitoring

NFVI monitoring is the 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. NFVI Monitoring checks the status of **Collector VM1 Info** and **Collector VM2 Info**.

Step 1 In the navigation pane, click **Post-Install > NFVI Monitoring**.

Step 2 Click the link **Click here to view NFVI monitoring**.

You will be redirected to NFVI Monitoring page.

Run VMTP

Run VMTP is divided in two sections:

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



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

Run CloudPulse

In VIM 2.0 and later, 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. Also, you can run these API endpoint tests on demand, and fetch the result of these tests by refreshing the table.

OpenStack CloudPulse tool is used to verify Cisco NFVI health. CloudPulse servers are installed in containers on all Cisco NFVI control nodes and CloudPulse clients are installed on the management node.

CloudPulse has two test sets: endpoint scenario (runs as a cron or manually) and operator test (run manually).

Following are the tests which are supported in CloudPulse:

Endpoint tests include

- cinder_endpoint
- glance_endpoint
- keystone_endpoint
- nova_endpoint
- neutron_endpoint

Operator tests include

- ceph_check
- docker_check
- galera_check
- node_check
- rabbitmq_check

The screenshot shows the Cisco VIM Unified Management interface. The left sidebar contains navigation options: Dashboard, Pre-Install, Post-Install, Logging, NFVI Monitor, Horizon, Run VMTP, Run Cloud Pulse (highlighted), Run Cloud Sanity, NFVbench, Pod Management, System Update, Reconfigure, View Topology, and Pod User Administration. The main content area is titled 'CloudPulse' and shows 'Cloudpulse Monitoring for: Fixident-BP'. A dropdown menu is set to 'cinder_endpoint' and a 'Run Tests' button is visible. Below this is a table of test results.

Name	Result	State	Test Type	Created Date	Updated Date
neutron_endpoint	success	success	periodic	05/04/2018, 11:51:28	05/04/2018, 11:51:29
docker_check	All docker containers are ...	success	periodic	05/04/2018, 11:55:17	05/04/2018, 11:55:20
nova_endpoint	success	success	periodic	05/04/2018, 11:51:29	05/04/2018, 11:51:30
cinder_endpoint	success	success	periodic	05/04/2018, 11:55:20	05/04/2018, 11:55:27
keystone_endpoint	success	success	periodic	05/04/2018, 11:55:20	05/04/2018, 11:55:28
rabbitmq_check	Running Nodes : [rabbit...	success	periodic	05/04/2018, 11:55:20	05/04/2018, 11:55:27
galera_check	Active Nodes : 10.10.35...	success	periodic	05/04/2018, 11:55:22	05/04/2018, 11:55:25
glance_endpoint	success	success	periodic	05/04/2018, 11:55:28	05/04/2018, 11:55:28
neutron_endpoint	success	success	periodic	05/04/2018, 11:55:28	05/04/2018, 11:55:29
nova_endpoint	success	success	periodic	05/04/2018, 11:55:29	05/04/2018, 11:55:30

To run a cloud pulse test, choose a particular test from the dropdown and click **Run Test**. Once the test is in progress, Click **(Spin/refresh)** icon to fetch the latest result. This grid does not fetch the latest result automatically.

Run Cloud Sanity Test

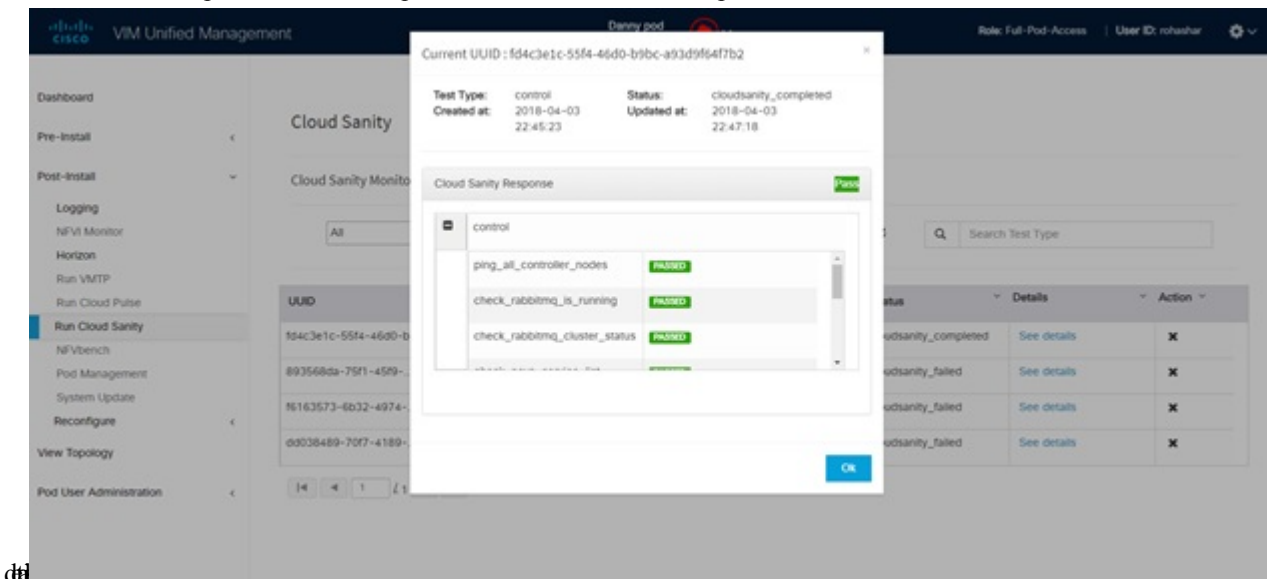
You can use the cloud sanity tool to test the Cisco NFVI pod and cloud infrastructure (host connectivity, basic mraiadb, rabbit, ceph cluster check, and RAID disks).

Following are the test available to run from Unified Management.

- Control
- Compute
- Cephmon
- Cephosd
- Management
- All

Step 1 To run a Cloud sanity test choose a particular test from the dropdown.

Step 2 Click **Run Test** to proceed with the operation. Once the test is completed, click **See Details** for more



Run NFV Bench

You can **Run NFV Bench** for **B** and **C** series Pod, through Cisco VIM Unified Management. On a pod running with CVIM, choose a *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. To run a particular test, you can either select a particular hypervisor from the available list or allow the system to select any hypervisor.

NDR/PDR Test

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

Name	Description
Select a hypervisor (Optional)	Select any hypervisor to run the NDR/PDR. By default, the option Use any hypervisor is selected.
Iteration Duration	Choose duration from 10 to 60 sec. Default is 20 sec.
Frame Size	Choose the correct frame size to run.
VXLAN	Enable VXLAN encapsulation, only if VXLAN is enabled.
Run NDR/PDR test	Click Run NDR/PDR test . After, completion it displays each type of test with its own settings and results.

Cisco Container Platform

You can install, verify, and cleanup Cisco Container Platform for B and C series pod with OVS/VLAN tenant type, through Cisco VIM Unified Management. On a pod running with Cisco VIM, choose a Cisco Container Platform link on the NAV menu.

You can either install Cisco Container Platform during initial installation or add Cisco Container Platform during install operation.

The screenshot displays the Cisco VIM Unified Management interface for configuring the Cisco Container Platform (CCP). The top navigation bar shows the user is logged in as 'saisikha' with 'Full Pod Access' role. The left sidebar lists various management tasks, with 'CCP' selected. The main panel is titled 'CCP' and features an 'Install' tab. Below the tab is a table for tracking operations, which is currently empty. A blue note box prompts the user to update CCP parameters before starting the installation. The configuration section includes several required input fields: Network Type, KUBE Version, Public Network UUID, Pod CIDR, and CCP Flavor. Below these are sections for CCP Control, CCP Installer Image, and CCP Tenant Image, each with an associated empty table. At the bottom, there is a table for DNS Servers and a prominent 'Install' button.

After successful installation, you can either do verify or cleanup operation.

Step 1 Log into **Cisco VIM Unified Management**.

Step 2 In the navigation pane, click **Post-Install > CCP**.

Step 3 Under **Install** tab, enter the following values if not defined during initial installation.

Name	Description
Network type	It can be tenant or provider.
Kube version	Version of Kubernetes to be installed
Public network UUID	UUID of Openstack external network or provider network.
Pod CIDR	Optionally, used for calico network.
Cisco Container Platform Flavor	Optional, but mandatory when NFV_HOSTS is enabled during Cisco Container Platform installation
Cisco Container Platform Control	<p>Project Name: Tenant name to create in Openstack to host tenant cluster. It is mandatory for network type tenant and provider.</p> <p>Username: Username of openstack tenant. It is mandatory for network type tenant and provider.</p> <p>Password: Password for the Openstack tenant. It is mandatory for network type tenant and provider.</p> <p>UI Password: Password for Cisco Container Platform UI. It is mandatory for network type tenant and provider.</p> <p>Private Key: Private key used to SSH to VM must be ed25519. It is mandatory for network type tenant and provider.</p> <p>Public Key: Public key for Cisco Container Platform VMs, for example /root/ecdsa-key.pub. It is mandatory for network type tenant and provider.</p> <p>Cisco Container Platform Subnet: Subnet to deploy Cisco Container Platform</p> <p>Control plane installer subnet : Subnet to create for bootstrap installer. It is mandatory for network type tenant.</p> <p>Installer Subnet Gateway: Gateway used for bootstrap installer. It is mandatory for network type tenant.</p>
Cisco Container Platform Installer Image	Pointer to the Cisco Container Platform installer image (required)
Cisco Container Platform Tenant Image	Pointer to Cisco Container Platform tenant cluster image (required)

Name	Description
Cisco Container Platform Tenant	<p>Project Name: Tenant name to create in Openstack to host tenant cluster. It is mandatory.</p> <p>Username: Username for openstack tenant. It is mandatory.</p> <p>Password: Password for tenant. It is mandatory.</p> <p>Workers: Number of kubernetes workers in tenant cluster. It is mandatory</p> <p>Tenant Subnet CIDR: Tenant subnet CIDR. It is mandatory.</p>
DNS Server	DNS server to be reachable from cloud (required)

Reconfiguring CIMC Password Through Unified Management

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

To update a password, you have 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 is disabled if the pod is in failed state as indicated by `ciscovim install-status`.

Step 1 Log in to **CISCO VIM Unified Management**.

Step 2 In the navigation pane, choose **Post-Install**

Step 3 Click **Reconfigure CIMC Password**.

Step 4 On the Reconfigure CIMC Password page of the Cisco VIM UM, complete the following fields:

Name	Description
<code>CIMC_COMMON</code> old Password	<code>CIMC_COMMON</code> old password field cannot be edited.

Name	Description
CIMC-COMMON new Password	Enter the CIMC-COMMON password. Password has to be alphanumeric according to the password rule.
Click Update	Old CIMC-COMMON password can be updated with new CIMC-COMMON password.
