



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 125

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 'Role: Full-Pod-Access', and user ID 'User ID: rohassar'. A notification bar at the top right says 'Press F11 to exit full screen'. The left sidebar contains a menu with 'Blueprint Management' selected. The main content area is titled 'Blueprints Management' and features a table with the following data:

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.

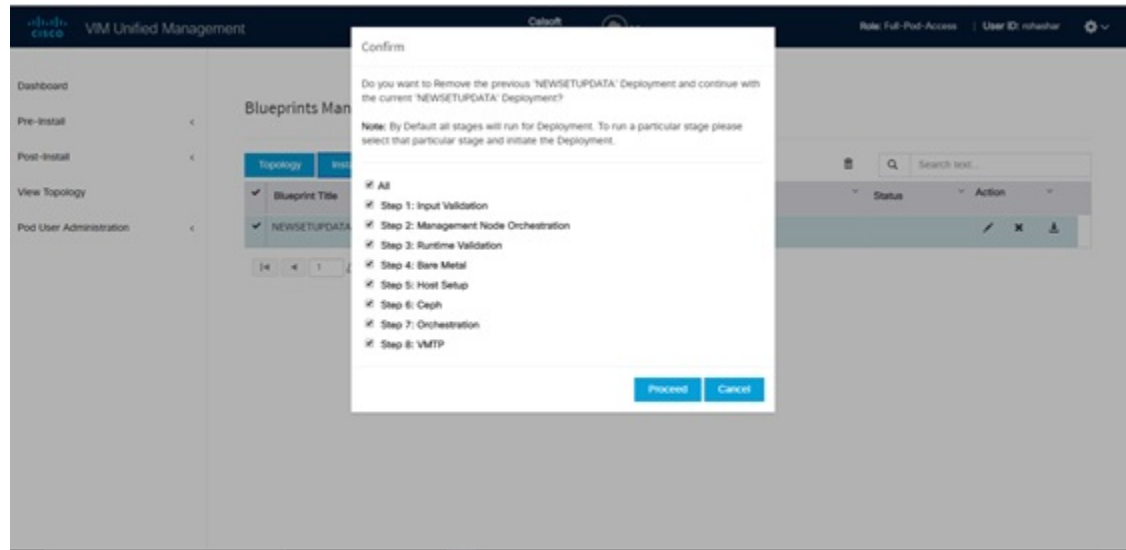
- Valid: Blueprint that is saved after offline validation success.
- Invalid: Blueprint that is saved after Offline Validation failure.
- Inprogress: Blueprint that is saved without running Offline Validation.
- Deployed: Blueprint that is used to bring up cloud without failures.
- Installing: Blueprint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



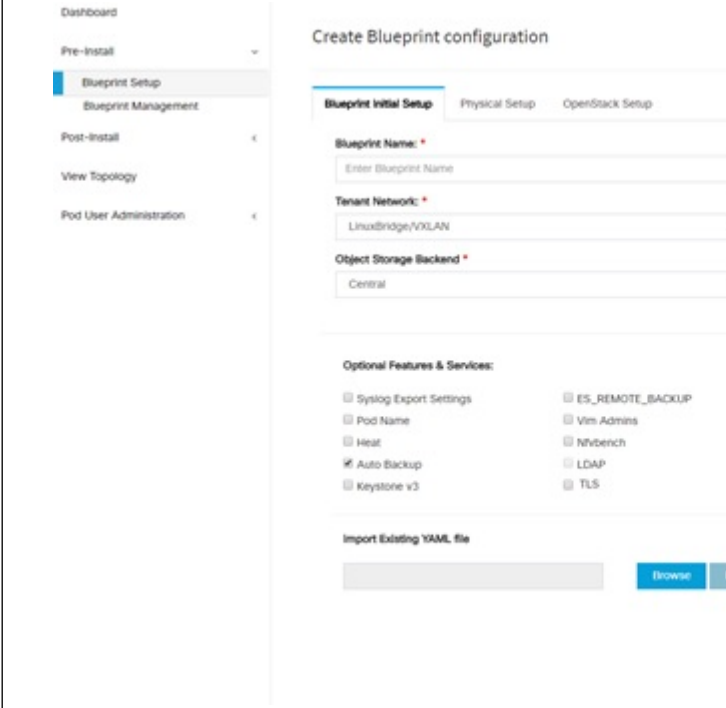
Note During the various operations across the application the cloud icon in the center of the header changes its color which is based on the following table.

Table 1:

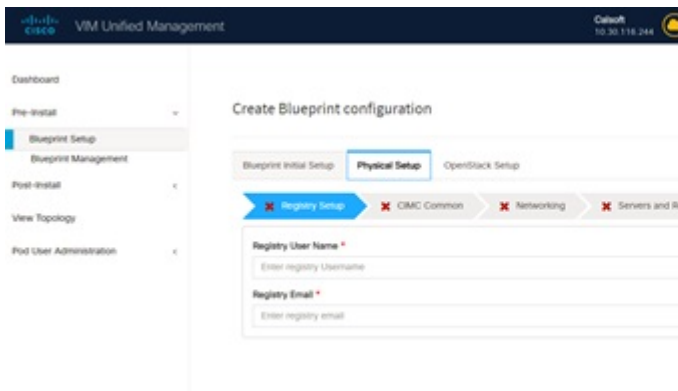
POD Operation	Status	Icon or Color
Management Node Registered, No Active Deployment	Pending	Gray
Cloud Up And Running, No Failure	Active	Green
Cloud Installation/ Any Operation In Progress	In-Progress	Blue
Cloudpulse Failed	Critical Warnings	Red
Pod Operation Failed	Warning	Amber
Software Update (Auto) 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

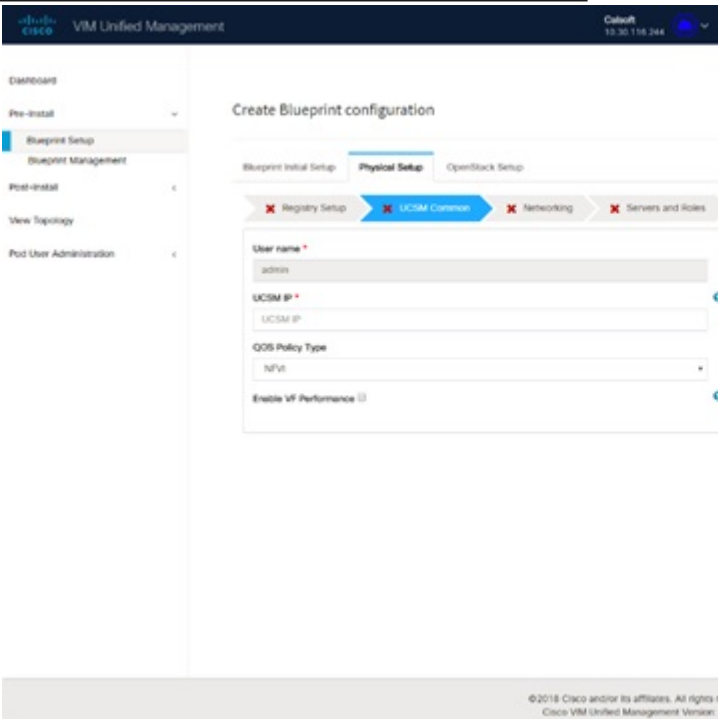
Creating a Blueprint for B-Series Server Platform

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"> <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 							

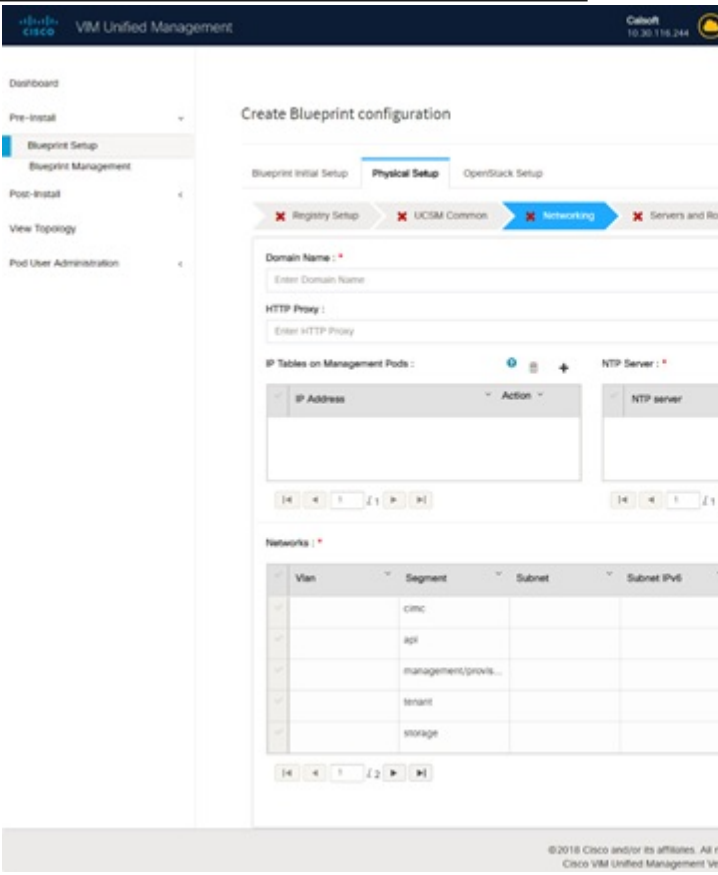
	Command or Action	Purpose	
		Name	Description
		Tenant Network drop-down list	Choose one of the following tenant network types: <ul style="list-style-type: none"> • Linuxbridge/VXLAN • OVS/VLAN
		Pod Type drop-down list	Choose one of the following pod types: <ul style="list-style-type: none"> • Fullon(By Default)
		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
		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.
		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. If any one is selected, the corresponding section is visible in various Blueprint sections. By default all features are disabled except Auto-backup.

	Command or Action	Purpose													
		<table border="1"> <thead> <tr> <th data-bbox="885 273 1234 325">Name</th> <th data-bbox="1234 273 1534 325">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="885 325 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>	Name	Description	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 1333 1234 1386">Name</th> <th data-bbox="1234 1333 1534 1386">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="941 1386 1234 1470">Registry User Name text field</td> <td data-bbox="1234 1386 1534 1470">Enter the User-Name for Registry (Mandatory).</td> </tr> <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> <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> <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>	Name	Description	Registry User Name text field	Enter the User-Name for Registry (Mandatory).	Registry Password text field	Enter the Password for Registry (Mandatory).	Registry Email text field	Enter the Email ID for Registry (Mandatory).
Name	Description														
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.														
Name	Description														
Registry User Name text field	Enter the User-Name for Registry (Mandatory).														
Registry Password text field	Enter the Password for Registry (Mandatory).														
Registry Email text field	Enter the Email ID for Registry (Mandatory).														

Command or Action	Purpose												
	 <table border="1" data-bbox="906 1014 1487 1654"> <thead> <tr> <th data-bbox="906 1014 1195 1062">Name</th> <th data-bbox="1195 1014 1487 1062">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="906 1062 1195 1150">User name disabled field</td> <td data-bbox="1195 1062 1487 1150">By default the value is Admin.</td> </tr> <tr> <td data-bbox="906 1150 1195 1239">Password text field</td> <td data-bbox="1195 1150 1487 1239">Enter Password for UCSM Common (Mandatory).</td> </tr> <tr> <td data-bbox="906 1239 1195 1360">UCSM IP text field</td> <td data-bbox="1195 1239 1487 1360">Enter IP Address for UCSM Common (Mandatory).</td> </tr> <tr> <td data-bbox="906 1360 1195 1449">Resource Prefix text field</td> <td data-bbox="1195 1360 1487 1449">Enter the resource prefix(Mandatory).</td> </tr> <tr> <td data-bbox="906 1449 1195 1654">QOS Policy Type drop-down</td> <td data-bbox="1195 1449 1487 1654"> 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 												

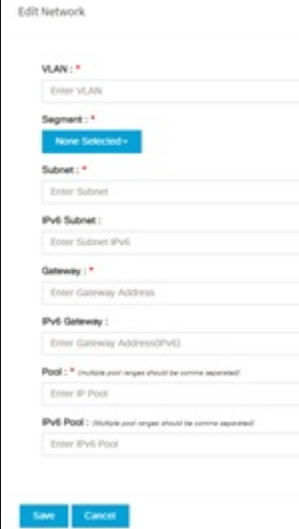
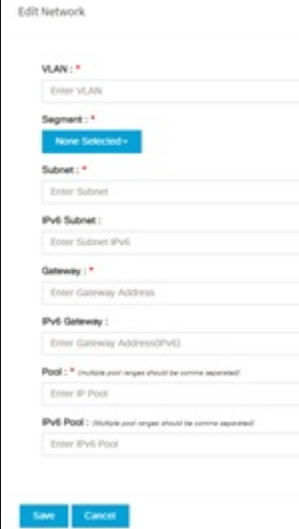
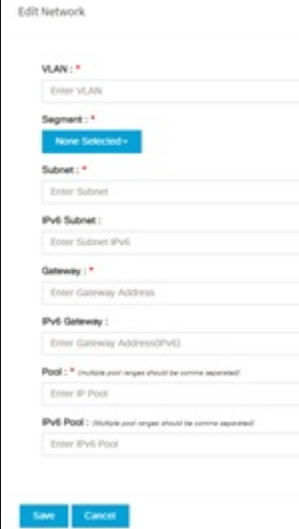
Command or Action	Purpose	
	Name	Description
	Max VF Count text field	Select the Max VF Count. <1-54> Maximum VF count 54, default is 20. If VF performance is enabled we recommend you to keep MAX_VF_COUNT to 20 else may fail on some VICs like 1240.
	Enable VF Performance optional checkbox	Default is 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 1195 1213">Name</th> <th data-bbox="1195 1165 1487 1213">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="906 1213 1195 1304">Domain Name field</td> <td data-bbox="1195 1213 1487 1304">Enter the domain name (Mandatory).</td> </tr> <tr> <td data-bbox="906 1304 1195 1455">HTTP Proxy Server field</td> <td data-bbox="1195 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 1195 1606">HTTPS Proxy Server field</td> <td data-bbox="1195 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 1195 1696">IP Tables on Management Pods</td> <td data-bbox="1195 1606 1487 1696">Specifies the list of IP Address with Mask.</td> </tr> <tr> <td data-bbox="906 1696 1195 1848">NTP Server</td> <td data-bbox="1195 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.

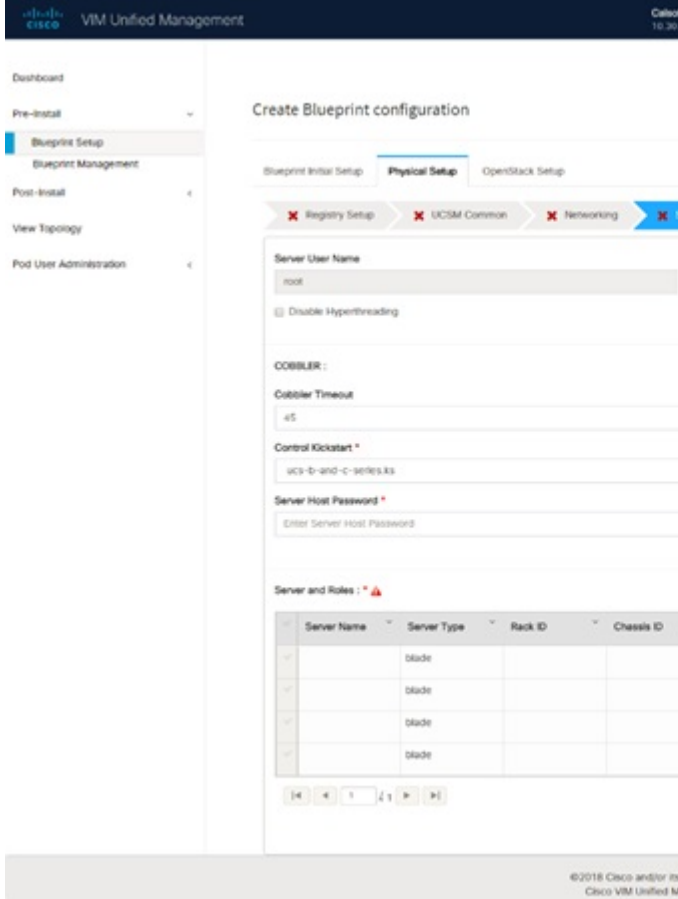
	Command or Action	Purpose	
		Name	Description
		Network table	

	Command or Action	Purpose								
		<table border="1"> <thead> <tr> <th data-bbox="889 273 1237 325">Name</th> <th data-bbox="1237 273 1534 325">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="889 325 1237 1852"></td> <td data-bbox="1237 325 1534 1852"> <p>Network table is pre-populated with segments. To add Networks you can either clear all the table using Delete All or click Edit icon for each segment and fill in the details.</p> <p>You can add, edit, or delete network information in the table:</p>  <ul style="list-style-type: none"> • Click + to enter new entries (networks) to the table. • Specify the following fields in the Edit Entry to Networks dialog box. <table border="1"> <thead> <tr> <th data-bbox="1237 1554 1383 1606">Name</th> <th data-bbox="1383 1554 1534 1606">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="1237 1606 1383 1852">VLAN field</td> <td data-bbox="1383 1606 1534 1852">Enter the VLAN ID. For Segment - Provider, the VLAN ID value is</td> </tr> </tbody> </table> </td> </tr> </tbody> </table>	Name	Description		<p>Network table is pre-populated with segments. To add Networks you can either clear all the table using Delete All or click Edit icon for each segment and fill in the details.</p> <p>You can add, edit, or delete network information in the table:</p>  <ul style="list-style-type: none"> • Click + to enter new entries (networks) to the table. • Specify the following fields in the Edit Entry to Networks dialog box. <table border="1"> <thead> <tr> <th data-bbox="1237 1554 1383 1606">Name</th> <th data-bbox="1383 1554 1534 1606">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="1237 1606 1383 1852">VLAN field</td> <td data-bbox="1383 1606 1534 1852">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									
	<p>Network table is pre-populated with segments. To add Networks you can either clear all the table using Delete All or click Edit icon for each segment and fill in the details.</p> <p>You can add, edit, or delete network information in the table:</p>  <ul style="list-style-type: none"> • Click + to enter new entries (networks) to the table. • Specify the following fields in the Edit Entry to Networks dialog box. <table border="1"> <thead> <tr> <th data-bbox="1237 1554 1383 1606">Name</th> <th data-bbox="1383 1554 1534 1606">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="1237 1606 1383 1852">VLAN field</td> <td data-bbox="1383 1606 1534 1852">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	
			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 • Machine • 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 1793"> Cobbler Username field </td> <td data-bbox="1235 1577 1534 1793"> Enter the cobbler username to access the cobbler server. </td> </tr> <tr> <td data-bbox="889 1793 1235 1860"> Control Kickstart </td> <td data-bbox="1235 1793 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 1793"> Cobbler Username field </td> <td data-bbox="1235 1577 1534 1793"> Enter the cobbler username to access the cobbler server. </td> </tr> <tr> <td data-bbox="889 1793 1235 1860"> Control Kickstart </td> <td data-bbox="1235 1793 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 1793"> Cobbler Username field </td> <td data-bbox="1235 1577 1534 1793"> Enter the cobbler username to access the cobbler server. </td> </tr> <tr> <td data-bbox="889 1793 1235 1860"> Control Kickstart </td> <td data-bbox="1235 1793 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																			

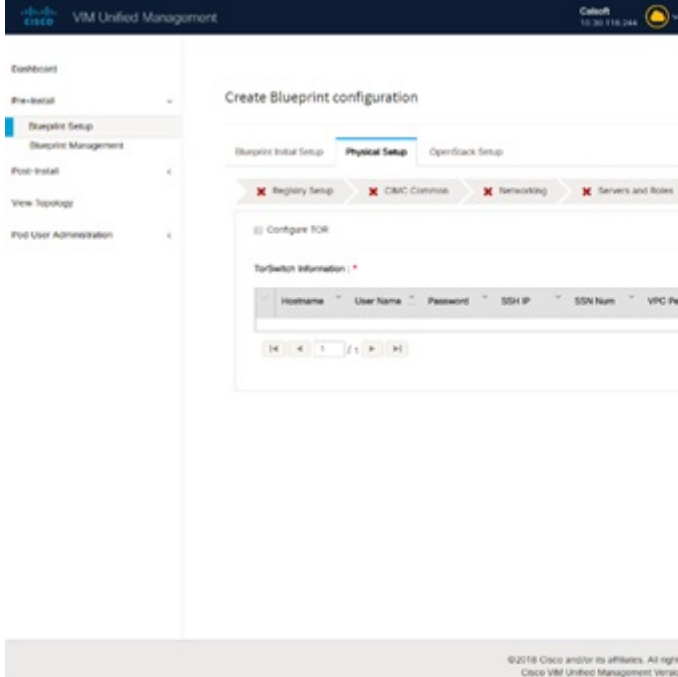
	Command or Action	Purpose									
		Name	Description								
			<table border="1"> <thead> <tr> <th data-bbox="1198 329 1349 384">Name</th> <th data-bbox="1349 329 1494 384">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="1198 384 1349 468">field</td> <td data-bbox="1349 384 1494 468">Control Node.</td> </tr> <tr> <td data-bbox="1198 468 1349 615">Compute Kickstart field</td> <td data-bbox="1349 468 1494 615">Kickstart file for Compute Node.</td> </tr> <tr> <td data-bbox="1198 615 1349 787">Cobbler Admin Username field</td> <td data-bbox="1349 615 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 1295 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 1344 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 1344 1054">Management IP</div> <input data-bbox="1255 1062 1620 1083" type="text"/> <div data-bbox="1247 1104 1360 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 1822">Chassis ID</td> <td data-bbox="1351 1743 1487 1822">Enter a Chassis ID.</td> </tr> <tr> <td data-bbox="1208 1831 1344 1869">If Rack is</td> <td data-bbox="1351 1831 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 1295 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 1344 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 1344 1054">Management IP</div> <input data-bbox="1255 1062 1620 1083" type="text"/> <div data-bbox="1247 1104 1360 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 1822">Chassis ID</td> <td data-bbox="1351 1743 1487 1822">Enter a Chassis ID.</td> </tr> <tr> <td data-bbox="1208 1831 1344 1869">If Rack is</td> <td data-bbox="1351 1831 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 1295 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 1344 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 1344 1054">Management IP</div> <input data-bbox="1255 1062 1620 1083" type="text"/> <div data-bbox="1247 1104 1360 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 1822">Chassis ID</td> <td data-bbox="1351 1743 1487 1822">Enter a Chassis ID.</td> </tr> <tr> <td data-bbox="1208 1831 1344 1869">If Rack is</td> <td data-bbox="1351 1831 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>NovaCPUAllocationRatio</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>NovaRAMAllocationRatio</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>VMHugepageSize</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	

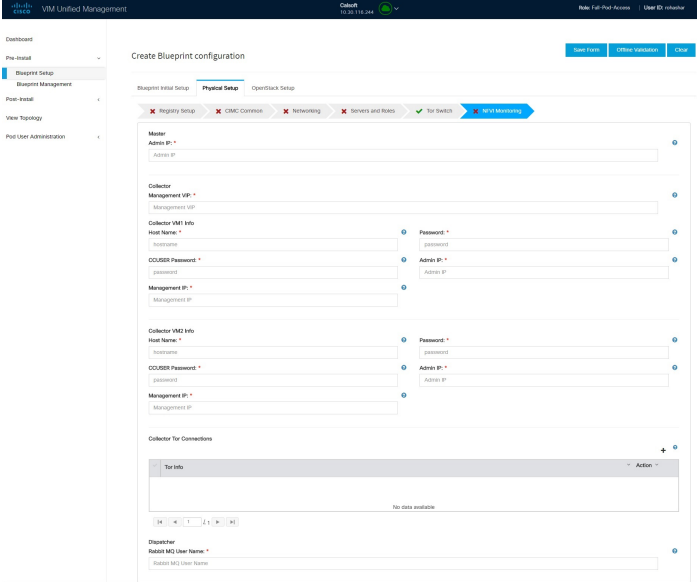
Command or Action	Purpose						
		Name	Description				
	<table border="1"> <tr> <td></td> <td>It is an optional field, but if provided for one server then it is mandatory to provide details for other servers.</td> </tr> <tr> <td>Management IPv6</td> <td>Enter the Management IPv6 Address.</td> </tr> <tr> <td colspan="2">Click Save.</td> </tr> </table> <p>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.</p> 		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 .	
	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 .							

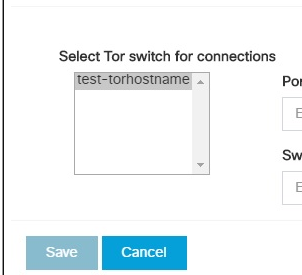
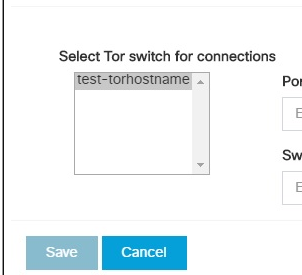
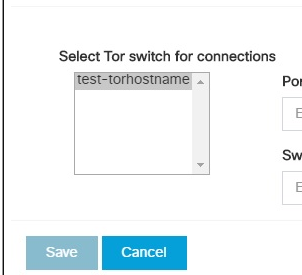
	Command or Action	Purpose	
		Name	Description
		Configure ToR optional checkbox.	Enabling this checkbox, changes the configure ToR section from false to true.


	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																

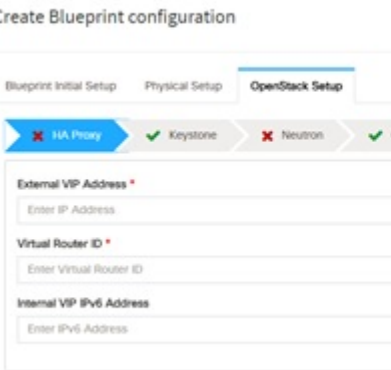
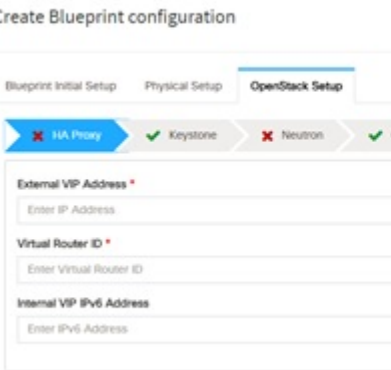
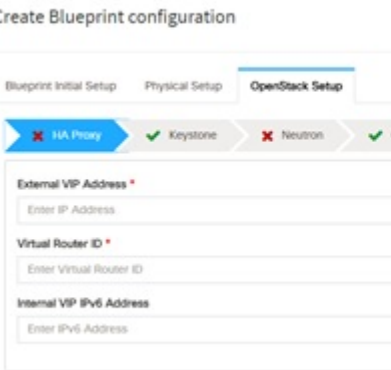
	Command or Action	Purpose																							
		<table border="1"> <thead> <tr> <th data-bbox="893 273 1218 325">Name</th> <th data-bbox="1218 273 1534 325">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="893 325 1218 378"></td> <td data-bbox="1218 325 1534 378">Address.</td> </tr> <tr> <td data-bbox="893 378 1218 462">SSN Num</td> <td data-bbox="1218 378 1534 462">ToR switch ssn num.</td> </tr> <tr> <td data-bbox="893 462 1218 682">VPC Peer Keepalive</td> <td data-bbox="1218 462 1534 682">Peer Management IP. You do not define if there is no peer.</td> </tr> <tr> <td data-bbox="893 682 1218 798">VPC Domain</td> <td data-bbox="1218 682 1534 798">Do not define if peer is absent.</td> </tr> <tr> <td data-bbox="893 798 1218 913">VPC Peer Port Info</td> <td data-bbox="1218 798 1534 913">Interface for vpc peer ports.</td> </tr> <tr> <td data-bbox="893 913 1218 1102">BR Management Port Info</td> <td data-bbox="1218 913 1534 1102">Management interface of the management node.</td> </tr> <tr> <td data-bbox="893 1102 1218 1354">BR Management PO Info</td> <td data-bbox="1218 1102 1534 1354">Port channel number for management interface of the management node.</td> </tr> <tr> <td colspan="2" data-bbox="893 1354 1534 1417">ClickSave.</td> </tr> </tbody> </table>	Name	Description		Address.	SSN Num	ToR switch ssn num.	VPC Peer Keepalive	Peer Management IP. You do not define if there is no peer.	VPC Domain	Do not define if peer is absent.	VPC Peer Port Info	Interface for vpc peer ports.	BR Management Port Info	Management interface of the management node.	BR Management PO Info	Port channel number for management interface of the management node.	ClickSave.		<p data-bbox="893 1417 1218 1564">On clicking save button, Add ToR Info Connected to Fabric field is visible.</p> <table border="1"> <tbody> <tr> <td data-bbox="893 1417 1218 1564">Port Channel field.</td> <td data-bbox="1218 1417 1534 1564">Enter the Port Channel input.</td> </tr> <tr> <td data-bbox="893 1564 1218 1774">Switch Name field.</td> <td data-bbox="1218 1564 1534 1774">Enter the name of the Switch.</td> </tr> </tbody> </table>	Port Channel field.	Enter the Port Channel input.	Switch Name field.	Enter the name of the Switch.
Name	Description																								
	Address.																								
SSN Num	ToR switch ssn num.																								
VPC Peer Keepalive	Peer Management IP. You do not define if there is no peer.																								
VPC Domain	Do not define if peer is absent.																								
VPC Peer Port Info	Interface for vpc peer ports.																								
BR Management Port Info	Management interface of the management node.																								
BR Management PO Info	Port channel number for management interface of the management node.																								
ClickSave.																									
Port Channel field.	Enter the Port Channel input.																								
Switch Name field.	Enter the name of the Switch.																								
		<p data-bbox="893 1774 1534 1774">g. Click NFVI Monitoring checkbox in Blueprint Initial Setup to enable the NFVI Monitoring configuration tab.</p>																							

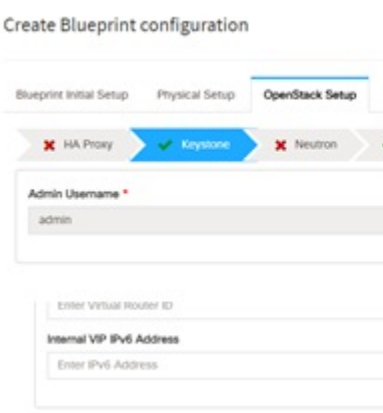
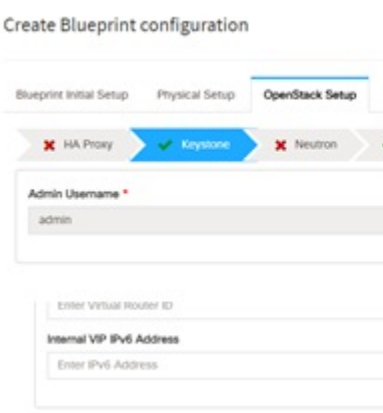
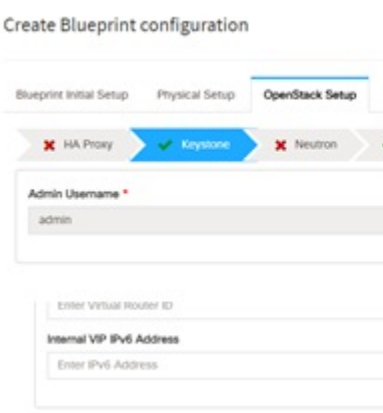
	Command or Action	Purpose																		
		 <table border="1" data-bbox="906 913 1489 1707"> <thead> <tr> <th data-bbox="906 913 1198 968">Name</th> <th data-bbox="1198 913 1489 968">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="906 968 1198 1058">Admin IP</td> <td data-bbox="1198 968 1489 1058">IP Address of Control Center VM</td> </tr> <tr> <td data-bbox="906 1058 1198 1209">Management VIP</td> <td data-bbox="1198 1058 1489 1209">VIP for ceilometer/dispatcher to use, must be unique across VIM Pod</td> </tr> <tr> <td data-bbox="906 1209 1198 1299">Host Name</td> <td data-bbox="1198 1209 1489 1299">Hostname of Collector VM</td> </tr> <tr> <td data-bbox="906 1299 1198 1354">Password</td> <td data-bbox="1198 1299 1489 1354">Password of Collector VM</td> </tr> <tr> <td data-bbox="906 1354 1198 1409">CCUSER Password</td> <td data-bbox="1198 1354 1489 1409">Password of CCUSER</td> </tr> <tr> <td data-bbox="906 1409 1198 1463">Admin IP</td> <td data-bbox="1198 1409 1489 1463">SSH IP of Collector VM</td> </tr> <tr> <td data-bbox="906 1463 1198 1554">Management IP</td> <td data-bbox="1198 1463 1489 1554">Management IP of Collector VM</td> </tr> <tr> <td data-bbox="906 1554 1198 1707">Master 2</td> <td data-bbox="1198 1554 1489 1707">Optional, but becomes mandatory if collector 2 is defined. Must contain valid Admin IP.</td> </tr> </tbody> </table>	Name	Description	Admin IP	IP Address of Control Center VM	Management VIP	VIP for ceilometer/dispatcher to use, must be unique across VIM Pod	Host Name	Hostname of Collector VM	Password	Password of Collector VM	CCUSER Password	Password of CCUSER	Admin IP	SSH IP of Collector VM	Management IP	Management IP of Collector VM	Master 2	Optional, but becomes mandatory if collector 2 is defined. Must contain valid Admin IP.
Name	Description																			
Admin IP	IP Address of Control Center VM																			
Management VIP	VIP for ceilometer/dispatcher to use, must be unique across VIM Pod																			
Host Name	Hostname of Collector VM																			
Password	Password of Collector VM																			
CCUSER Password	Password of CCUSER																			
Admin IP	SSH IP of Collector VM																			
Management IP	Management IP of Collector VM																			
Master 2	Optional, but becomes mandatory if collector 2 is defined. Must contain valid Admin IP.																			

	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 659">Collector 2</td> <td data-bbox="1234 331 1534 659"> 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="889 659 1234 1801">Collector ToR Connections</td> <td data-bbox="1234 659 1534 1801"> <ol style="list-style-type: none"> 1. Click on (+) icon to Add Collector ToR Connections. 2. Select the ToR switches from list to add the information. 3. It is optional and available for ToR type NCS-5500 4. For now, it supports adding only one Collector ToR Connection <p>Add Collector Tor Connections</p>  <table border="1"> <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"> 1. Click on (+) icon to Add Collector ToR Connections. 2. Select the ToR switches from list to add the information. 3. It is optional and available for ToR type NCS-5500 4. For now, it supports adding only one Collector ToR Connection <p>Add Collector Tor Connections</p>  <table border="1"> <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"> 1. Click on (+) icon to Add Collector ToR Connections. 2. Select the ToR switches from list to add the information. 3. It is optional and available for ToR type NCS-5500 4. For now, it supports adding only one Collector ToR Connection <p>Add Collector Tor Connections</p>  <table border="1"> <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.								

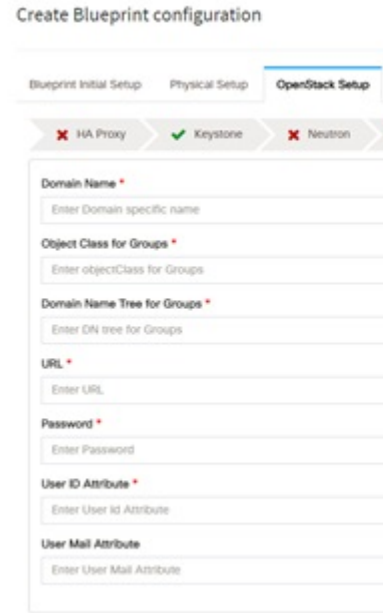
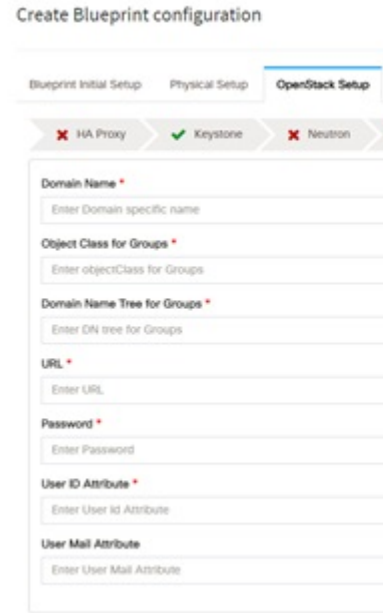
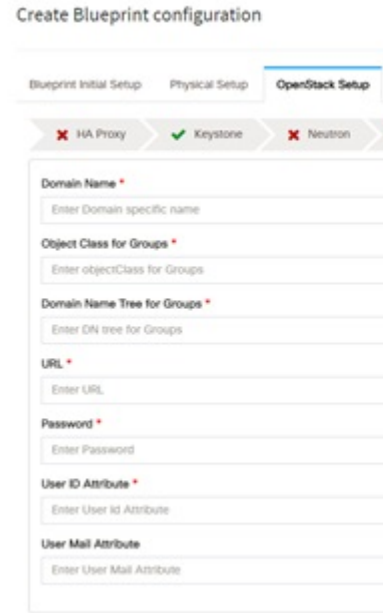
	Command or Action	Purpose																																				
		<table border="1" data-bbox="906 275 1490 422"> <thead> <tr> <th data-bbox="906 275 1198 331">Name</th> <th data-bbox="1198 275 1490 331">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="906 331 1198 422">Rabbit MQ User Name</td> <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 ✗ Servers 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 border="1" 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 1076 1119">External Servers</p> <table border="1" 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 1011 1339">LDAP</p> <p data-bbox="971 1350 1076 1371">Group Mappings</p> <table border="1" 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 border="1" data-bbox="971 1581 1620 1654"> <thead> <tr> <th data-bbox="971 1581 1092 1612">Domain Name...</th> <th data-bbox="1092 1581 1206 1612">Attributes</th> <th data-bbox="1206 1581 1320 1612">Bind DN</th> <th data-bbox="1320 1581 1433 1612">Bind Passwor...</th> <th data-bbox="1433 1581 1547 1612">LDAP URI</th> <th data-bbox="1547 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 1799"> <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 997"> HA Proxy </td> <td data-bbox="1179 478 1492 997"> Fill in the following details:  </td> </tr> <tr> <td data-bbox="1179 997 1338 1176"> External VIP Address </td> <td data-bbox="1338 997 1492 1176"> Enter the IP address of the External field </td> </tr> <tr> <td data-bbox="1179 1176 1338 1354"> External VIP Address IPv6 field </td> <td data-bbox="1338 1176 1492 1354"> Enter the IPv6 address of the External field </td> </tr> <tr> <td data-bbox="1179 1354 1338 1480"> Virtual Router ID field </td> <td data-bbox="1338 1354 1492 1480"> Enter the Router ID for the HA. </td> </tr> <tr> <td data-bbox="1179 1480 1338 1627"> Internal VIP Address IPv6 field </td> <td data-bbox="1338 1480 1492 1627"> Enter the IPv6 address of the Internal IP. </td> </tr> <tr> <td data-bbox="1179 1627 1338 1799"> Internal VIP Address field </td> <td data-bbox="1338 1627 1492 1799"> 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															

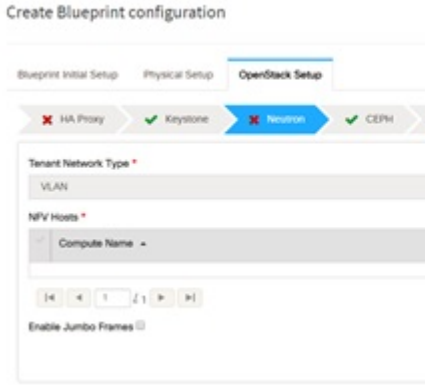
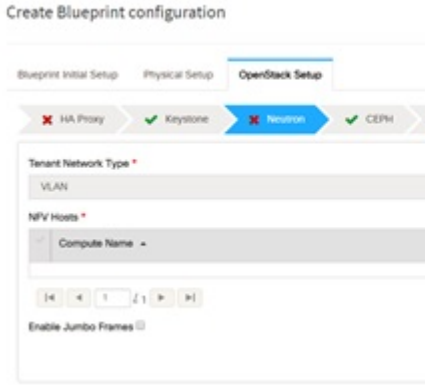
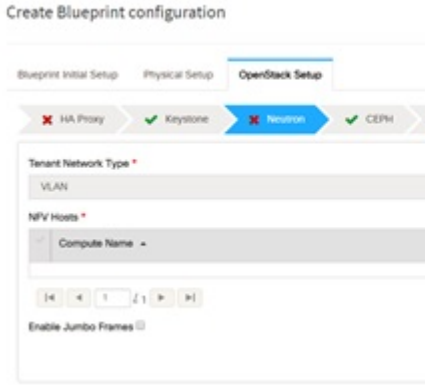
	Command or Action	Purpose								
		<table border="1"> <thead> <tr> <th data-bbox="885 273 1218 325">Name</th> <th data-bbox="1218 273 1534 325">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="885 325 1218 1218">Keystone</td> <td data-bbox="1218 325 1534 1218"> <p>The following are the Pre-populated field values. This option is always set to be true.</p>  <table border="1"> <tbody> <tr> <td data-bbox="1218 966 1372 1081">Admin Username field</td> <td data-bbox="1372 966 1534 1081">admin</td> </tr> <tr> <td data-bbox="1218 1081 1372 1218">Admin Tenant Name field</td> <td data-bbox="1372 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="1218 966 1372 1081">Admin Username field</td> <td data-bbox="1372 966 1534 1081">admin</td> </tr> <tr> <td data-bbox="1218 1081 1372 1218">Admin Tenant Name field</td> <td data-bbox="1372 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="1218 966 1372 1081">Admin Username field</td> <td data-bbox="1372 966 1534 1081">admin</td> </tr> <tr> <td data-bbox="1218 1081 1372 1218">Admin Tenant Name field</td> <td data-bbox="1372 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 1839"></td> <td data-bbox="1218 325 1534 1839"> <p>This is available only when Keystone v3 and LDAP both are enabled under <i>Optional Features and Services</i> in Blueprint Initial Setup.</p>  <table border="1"> <tbody> <tr> <td data-bbox="1218 1218 1372 1333">Domain Name field</td> <td data-bbox="1372 1218 1534 1333">Enter the Domain name.</td> </tr> <tr> <td data-bbox="1218 1333 1372 1459">Object Class for Users field</td> <td data-bbox="1372 1333 1534 1459">Enter a string as input.</td> </tr> <tr> <td data-bbox="1218 1459 1372 1585">Object Class for Groups field</td> <td data-bbox="1372 1459 1534 1585">Enter a string.</td> </tr> <tr> <td data-bbox="1218 1585 1372 1732">Domain Name Tree for Users field</td> <td data-bbox="1372 1585 1534 1732">Enter a string.</td> </tr> <tr> <td data-bbox="1218 1732 1372 1839">Domain Name Tree for Groups</td> <td data-bbox="1372 1732 1534 1839">Enter a string.</td> </tr> </tbody> </table> </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>  <table border="1"> <tbody> <tr> <td data-bbox="1218 1218 1372 1333">Domain Name field</td> <td data-bbox="1372 1218 1534 1333">Enter the Domain name.</td> </tr> <tr> <td data-bbox="1218 1333 1372 1459">Object Class for Users field</td> <td data-bbox="1372 1333 1534 1459">Enter a string as input.</td> </tr> <tr> <td data-bbox="1218 1459 1372 1585">Object Class for Groups field</td> <td data-bbox="1372 1459 1534 1585">Enter a string.</td> </tr> <tr> <td data-bbox="1218 1585 1372 1732">Domain Name Tree for Users field</td> <td data-bbox="1372 1585 1534 1732">Enter a string.</td> </tr> <tr> <td data-bbox="1218 1732 1372 1839">Domain Name Tree for Groups</td> <td data-bbox="1372 1732 1534 1839">Enter a string.</td> </tr> </tbody> </table>	Domain Name field	Enter the Domain name.	Object Class for Users field	Enter a string as input.	Object Class for Groups field	Enter a string.	Domain Name Tree for Users field	Enter a string.	Domain Name Tree for Groups	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>  <table border="1"> <tbody> <tr> <td data-bbox="1218 1218 1372 1333">Domain Name field</td> <td data-bbox="1372 1218 1534 1333">Enter the Domain name.</td> </tr> <tr> <td data-bbox="1218 1333 1372 1459">Object Class for Users field</td> <td data-bbox="1372 1333 1534 1459">Enter a string as input.</td> </tr> <tr> <td data-bbox="1218 1459 1372 1585">Object Class for Groups field</td> <td data-bbox="1372 1459 1534 1585">Enter a string.</td> </tr> <tr> <td data-bbox="1218 1585 1372 1732">Domain Name Tree for Users field</td> <td data-bbox="1372 1585 1534 1732">Enter a string.</td> </tr> <tr> <td data-bbox="1218 1732 1372 1839">Domain Name Tree for Groups</td> <td data-bbox="1372 1732 1534 1839">Enter a string.</td> </tr> </tbody> </table>	Domain Name field	Enter the Domain name.	Object Class for Users field	Enter a string as input.	Object Class for Groups field	Enter a string.	Domain Name Tree for Users field	Enter a string.	Domain Name Tree for Groups	Enter a string.					
Domain Name field	Enter the Domain name.															
Object Class for Users field	Enter a string as input.															
Object Class for Groups field	Enter a string.															
Domain Name Tree for Users field	Enter a string.															
Domain Name Tree for Groups	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 329">Name</th> <th data-bbox="1179 275 1494 329">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="854 329 1179 1003"></td> <td data-bbox="1179 329 1494 1003"> <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>  </td> </tr> <tr> <td data-bbox="854 1003 1179 1352">Tenant Network Type field</td> <td data-bbox="1179 1003 1494 1352">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="854 1352 1179 1696">Mechanism Drivers field</td> <td data-bbox="1179 1352 1494 1696">It is Auto-filled based on the <i>Tenant Network Type</i> selected in Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="854 1696 1179 1862">NFV Hosts field</td> <td data-bbox="1179 1696 1494 1862">It is Auto-filled with the Compute you added in</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> 	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> 												
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												

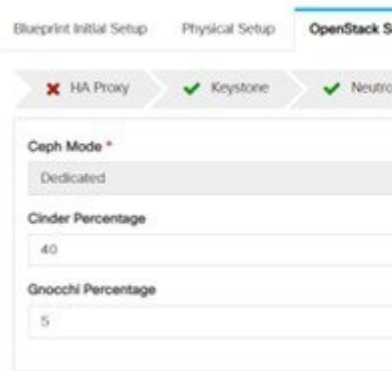
	Command or Action	Purpose	
		Name	Description
			<p>Server and Roles.</p> <p>If you select All in this section NFV_HOSTS: ALL is added to the Blueprint or you can select one particular compute. For Example: NFV_HOSTS: compute-server-1, compute-server-2</p>
		Tenant VLAN Ranges field	List of ranges separated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

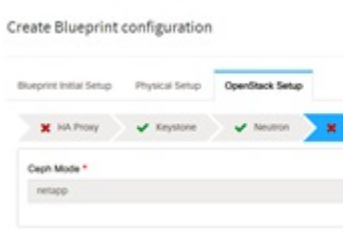
	Command or Action	Purpose	
		Name	Description
			For Tenant Network Type, Linux Bridge everything remains the same but Tenant VLAN Ranges is removed.

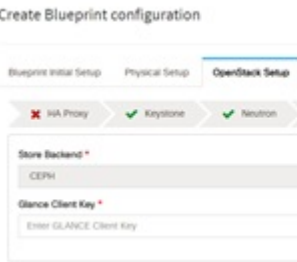
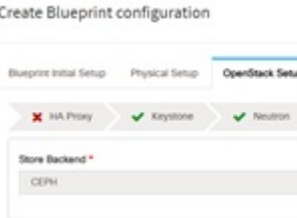
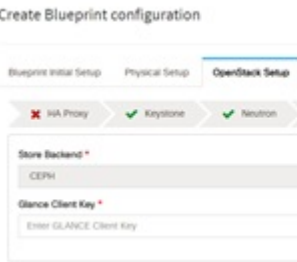
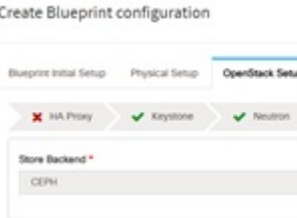
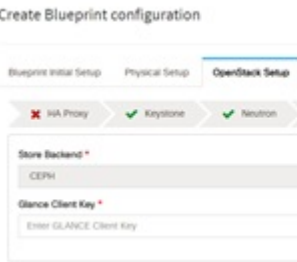
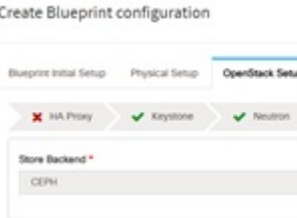
	Command or Action	Purpose	
		Name	Description
		CEPH	

	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="1230 867 1487 1862"> <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		
			<table border="1"> <tr> <td data-bbox="1268 331 1369 541">NAT</td> <td data-bbox="1369 331 1528 541">is required for Central Ceph and when mgmt network is not routable.</td> </tr> </table>	NAT	is required for Central Ceph and when mgmt network is not routable.
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>  <ul style="list-style-type: none"> • Ceph mode : By Default netapp • Cinder Percentatge : Must be 60% • Glance Percentatge: Must be 40%

	Command or Action	Purpose										
		<table border="1"> <thead> <tr> <th data-bbox="854 275 1179 331">Name</th> <th data-bbox="1179 275 1492 331">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="854 331 1179 1642">GLANCE</td> <td data-bbox="1179 331 1492 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="1187 789 1338 867">Store Backend</td> <td data-bbox="1338 789 1492 867">By default CEPH.</td> </tr> <tr> <td data-bbox="1187 867 1338 982">Glance RBD Pool field</td> <td data-bbox="1338 867 1492 982">By default images.</td> </tr> <tr> <td data-bbox="1187 982 1338 1098">Glance Client Key</td> <td data-bbox="1338 982 1492 1098">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="1187 789 1338 867">Store Backend</td> <td data-bbox="1338 789 1492 867">By default CEPH.</td> </tr> <tr> <td data-bbox="1187 867 1338 982">Glance RBD Pool field</td> <td data-bbox="1338 867 1492 982">By default images.</td> </tr> <tr> <td data-bbox="1187 982 1338 1098">Glance Client Key</td> <td data-bbox="1338 982 1492 1098">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="1187 789 1338 867">Store Backend</td> <td data-bbox="1338 789 1492 867">By default CEPH.</td> </tr> <tr> <td data-bbox="1187 867 1338 982">Glance RBD Pool field</td> <td data-bbox="1338 867 1492 982">By default images.</td> </tr> <tr> <td data-bbox="1187 982 1338 1098">Glance Client Key</td> <td data-bbox="1338 982 1492 1098">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											

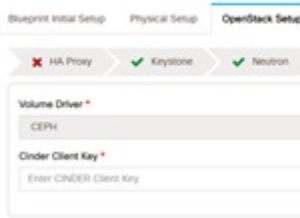
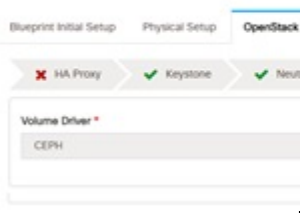
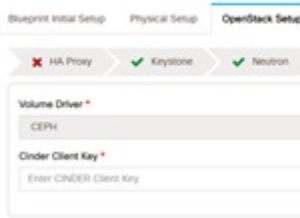
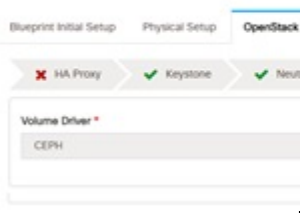
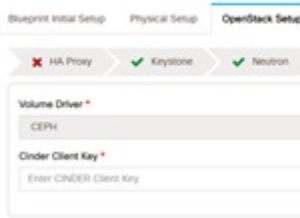
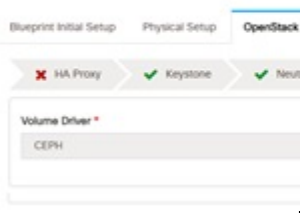
	Command or Action	Purpose	
		Name	Description
		Vim LDAP Admins	

	Command or Action	Purpose	
		Name	Description
			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). Following are the values to be filled to add vim LDAP admins:

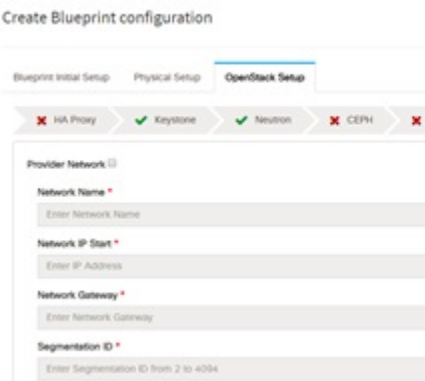
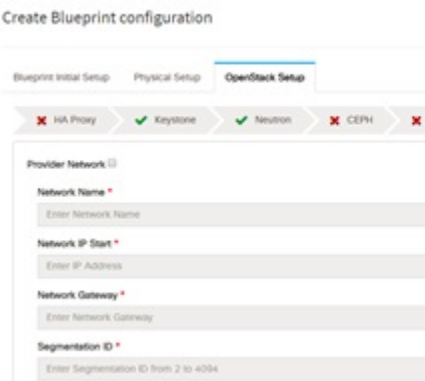
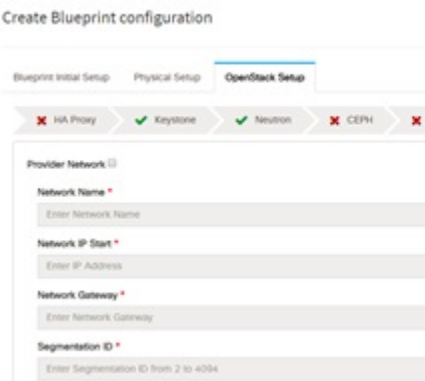
	Command or Action	Purpose	
		Name	Description
			<p>Add Vlm LDAP Admins</p> <p>Domain Name *</p> <input type="text" value="Enter Domain Name"/> <p>LDAP URI *</p> <input type="text" value="Enter LDAP uri Name"/> <p>LDAP Search Base *</p> <input type="text" value="Enter Search Base"/> <p>LDAP Schema</p> <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>Ctexec 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:

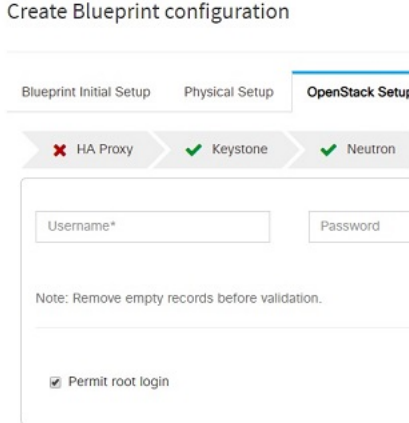
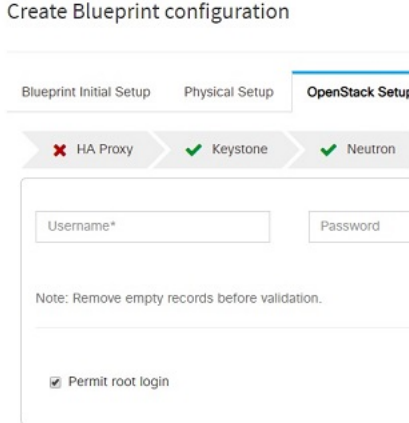
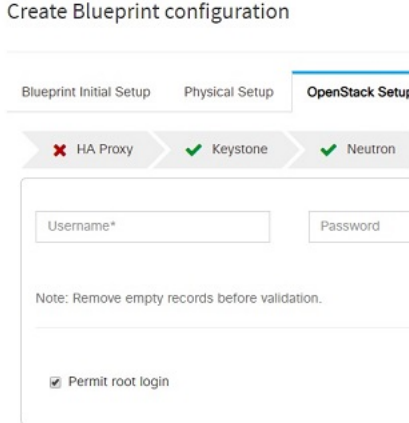
	Command or Action	Purpose	
		Name	Description
			<p>Optional. Enter user Search Base</p> <ul style="list-style-type: none"> • access_provider: Optional • simple_allow_groups: Optional • ldap_id_use_start_tls: Optional. Can be true or false. • ldap_tls_reqcert: Optional . Can be never/allow/try/demand.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

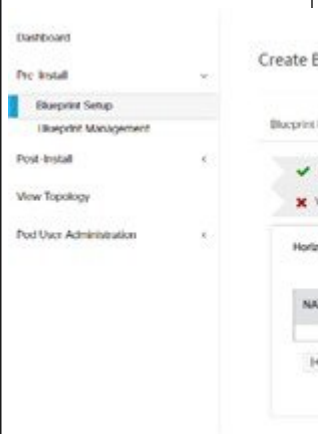
	Command or Action	Purpose										
		<table border="1"> <thead> <tr> <th data-bbox="854 275 1179 331">Name</th> <th data-bbox="1179 275 1490 331">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="854 331 1179 1411">CINDER</td> <td data-bbox="1179 331 1490 1411"> <p>By default Populated for <i>CEPH Dedicated</i> with Volume Driver value as CEPH.</p> <p>Create Blueprint configuration</p>  <table border="1"> <tr> <td data-bbox="1193 808 1339 886">Volume Driver</td> <td data-bbox="1339 808 1490 886">By default CEPH.</td> </tr> <tr> <td data-bbox="1193 886 1339 997">Cinder RBD Pool field</td> <td data-bbox="1339 886 1490 997">By default volumes.</td> </tr> <tr> <td data-bbox="1193 997 1339 1081">Cinder Client Key</td> <td data-bbox="1339 997 1490 1081">Enter Cinder Client Key</td> </tr> </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"> <tr> <td data-bbox="1193 808 1339 886">Volume Driver</td> <td data-bbox="1339 808 1490 886">By default CEPH.</td> </tr> <tr> <td data-bbox="1193 886 1339 997">Cinder RBD Pool field</td> <td data-bbox="1339 886 1490 997">By default volumes.</td> </tr> <tr> <td data-bbox="1193 997 1339 1081">Cinder Client Key</td> <td data-bbox="1339 997 1490 1081">Enter Cinder Client Key</td> </tr> </table> <p>Create Blueprint configuration</p> 	Volume Driver	By default CEPH.	Cinder RBD Pool field	By default volumes.	Cinder Client Key	Enter Cinder Client Key
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"> <tr> <td data-bbox="1193 808 1339 886">Volume Driver</td> <td data-bbox="1339 808 1490 886">By default CEPH.</td> </tr> <tr> <td data-bbox="1193 886 1339 997">Cinder RBD Pool field</td> <td data-bbox="1339 886 1490 997">By default volumes.</td> </tr> <tr> <td data-bbox="1193 997 1339 1081">Cinder Client Key</td> <td data-bbox="1339 997 1490 1081">Enter Cinder Client Key</td> </tr> </table> <p>Create Blueprint configuration</p> 	Volume Driver	By default CEPH.	Cinder RBD Pool field	By default volumes.	Cinder Client Key	Enter Cinder Client Key					
Volume Driver	By default CEPH.											
Cinder RBD Pool field	By default volumes.											
Cinder Client Key	Enter Cinder Client Key											

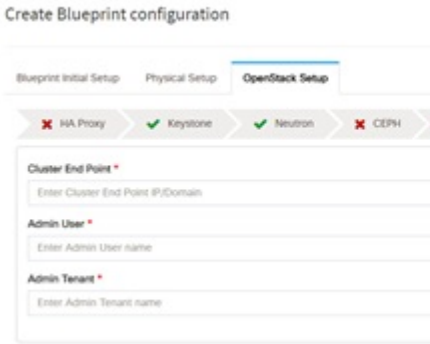
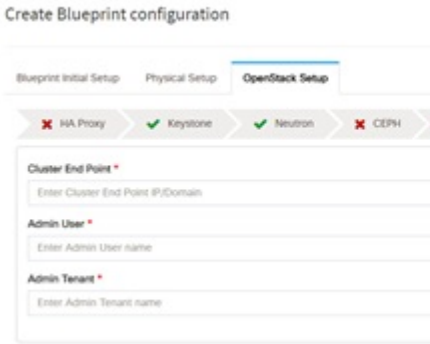
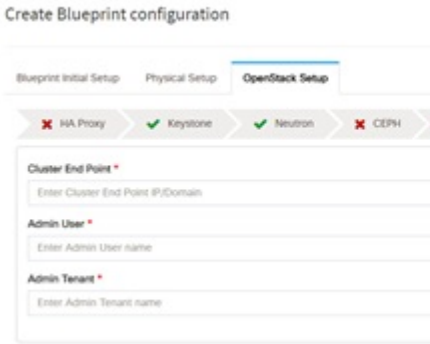
	Command or Action	Purpose	
		Name	Description
		VMTP VMTP optional section will only be visible once VMTP is selected from Blueprint Initial Setup.	

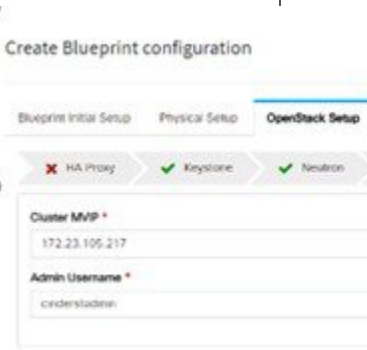
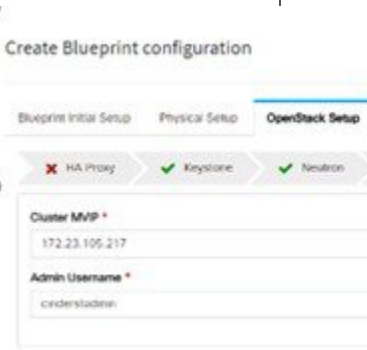
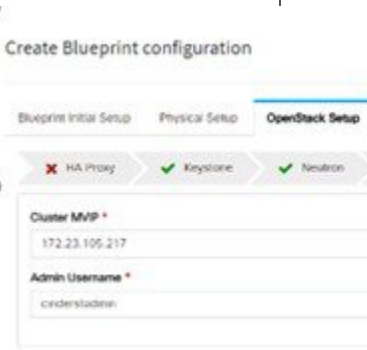
	Command or Action	Purpose														
		<table border="1"> <thead> <tr> <th data-bbox="854 275 1182 331">Name</th> <th data-bbox="1182 275 1492 331">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="854 331 1182 1845"></td> <td data-bbox="1182 331 1492 1845"> <p>Check one of the check boxes 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"> <tbody> <tr> <td data-bbox="1182 1071 1339 1228">Network Name field</td> <td data-bbox="1339 1071 1492 1228">Enter the name for the external network.</td> </tr> <tr> <td data-bbox="1182 1228 1339 1375">Subnet field</td> <td data-bbox="1339 1228 1492 1375">Enter the Subnet for Provider Network.</td> </tr> <tr> <td data-bbox="1182 1375 1339 1522">Network IP Start field</td> <td data-bbox="1339 1375 1492 1522">Enter the start of the floating IPv4 address.</td> </tr> <tr> <td data-bbox="1182 1522 1339 1669">Network IP End field</td> <td data-bbox="1339 1522 1492 1669">Enter the end of the floating IPv4 address.</td> </tr> <tr> <td data-bbox="1182 1669 1339 1845">Network Gateway field</td> <td data-bbox="1339 1669 1492 1845">Enter the IPv4 address for the Gateway.</td> </tr> </tbody> </table> </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>  <table border="1"> <tbody> <tr> <td data-bbox="1182 1071 1339 1228">Network Name field</td> <td data-bbox="1339 1071 1492 1228">Enter the name for the external network.</td> </tr> <tr> <td data-bbox="1182 1228 1339 1375">Subnet field</td> <td data-bbox="1339 1228 1492 1375">Enter the Subnet for Provider Network.</td> </tr> <tr> <td data-bbox="1182 1375 1339 1522">Network IP Start field</td> <td data-bbox="1339 1375 1492 1522">Enter the start of the floating IPv4 address.</td> </tr> <tr> <td data-bbox="1182 1522 1339 1669">Network IP End field</td> <td data-bbox="1339 1522 1492 1669">Enter the end of the floating IPv4 address.</td> </tr> <tr> <td data-bbox="1182 1669 1339 1845">Network Gateway field</td> <td data-bbox="1339 1669 1492 1845">Enter the IPv4 address for the Gateway.</td> </tr> </tbody> </table>	Network Name field	Enter the name for the external network.	Subnet field	Enter the Subnet for Provider Network.	Network IP Start field	Enter the start of the floating IPv4 address.	Network IP End field	Enter the end of the floating IPv4 address.	Network Gateway field	Enter the IPv4 address for the Gateway.
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"> <tbody> <tr> <td data-bbox="1182 1071 1339 1228">Network Name field</td> <td data-bbox="1339 1071 1492 1228">Enter the name for the external network.</td> </tr> <tr> <td data-bbox="1182 1228 1339 1375">Subnet field</td> <td data-bbox="1339 1228 1492 1375">Enter the Subnet for Provider Network.</td> </tr> <tr> <td data-bbox="1182 1375 1339 1522">Network IP Start field</td> <td data-bbox="1339 1375 1492 1522">Enter the start of the floating IPv4 address.</td> </tr> <tr> <td data-bbox="1182 1522 1339 1669">Network IP End field</td> <td data-bbox="1339 1522 1492 1669">Enter the end of the floating IPv4 address.</td> </tr> <tr> <td data-bbox="1182 1669 1339 1845">Network Gateway field</td> <td data-bbox="1339 1669 1492 1845">Enter the IPv4 address for the Gateway.</td> </tr> </tbody> </table>	Network Name field	Enter the name for the external network.	Subnet field	Enter the Subnet for Provider Network.	Network IP Start field	Enter the start of the floating IPv4 address.	Network IP End field	Enter the end of the floating IPv4 address.	Network Gateway field	Enter the IPv4 address for the Gateway.					
Network Name field	Enter the name for the external network.															
Subnet field	Enter the Subnet for Provider Network.															
Network IP Start field	Enter the start of the floating IPv4 address.															
Network IP End field	Enter the end of the floating IPv4 address.															
Network Gateway field	Enter the IPv4 address for the Gateway.															

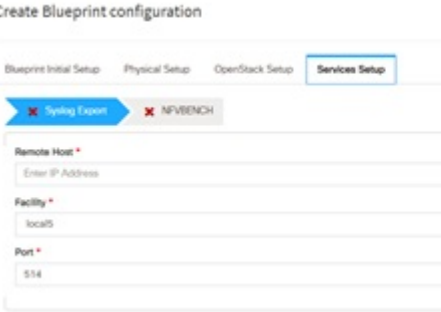
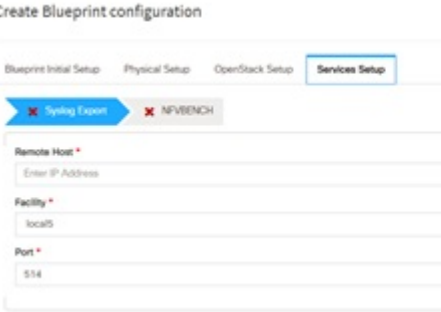
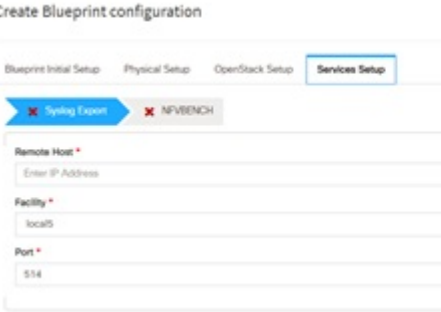
	Command or Action	Purpose																							
		<table border="1"> <thead> <tr> <th data-bbox="889 273 1221 331">Name</th> <th data-bbox="1221 273 1534 331">Description</th> </tr> </thead> </table>	Name	Description	<table border="1"> <tbody> <tr> <td data-bbox="1221 331 1377 478"> DNS Server field </td> <td data-bbox="1377 331 1534 478"> Enter the DNS server IPv4 address. </td> </tr> <tr> <td data-bbox="1221 478 1377 598"> Segmentation ID field </td> <td data-bbox="1377 478 1534 598"> Enter the segmentation ID. </td> </tr> <tr> <td colspan="2" data-bbox="1221 598 1534 693"> For External Network fill in the following details: </td> </tr> <tr> <td colspan="2" data-bbox="1221 693 1534 924">  </td> </tr> <tr> <td data-bbox="1221 924 1377 1102"> Network Name field </td> <td data-bbox="1377 924 1534 1102"> Enter the name for the external network. </td> </tr> <tr> <td data-bbox="1221 1102 1377 1249"> Subnet field </td> <td data-bbox="1377 1102 1534 1249"> Enter the Subnet for the external Network. </td> </tr> <tr> <td data-bbox="1221 1249 1377 1407"> Network IP Start field </td> <td data-bbox="1377 1249 1534 1407"> Enter the start of the floating IPv4 address. </td> </tr> <tr> <td data-bbox="1221 1407 1377 1564"> Network IP End field </td> <td data-bbox="1377 1407 1534 1564"> Enter the endof the floating IPv4 address. </td> </tr> <tr> <td data-bbox="1221 1564 1377 1711"> Network Gateway field </td> <td data-bbox="1377 1564 1534 1711"> Enter the IPv4 address for the Gateway. </td> </tr> <tr> <td data-bbox="1221 1711 1377 1869"> DNS Server field </td> <td data-bbox="1377 1711 1534 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 endof 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 endof the floating IPv4 address.																								
Network Gateway field	Enter the IPv4 address for the Gateway.																								
DNS Server field	Enter the DNS server IPv4 address.																								

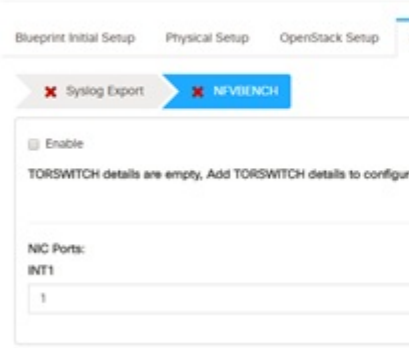
	Command or Action	Purpose						
		<table border="1"> <thead> <tr> <th data-bbox="854 275 1179 331">Name</th> <th data-bbox="1179 275 1494 331">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="854 331 1179 600"> <p>TLS This optional section will only be visible once TLS is selected from Blueprint Initial Setup Page.</p> </td> <td data-bbox="1179 331 1494 600"> <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. </td> </tr> <tr> <td data-bbox="854 600 1179 1497"> <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> </td> <td data-bbox="1179 600 1494 1497"> <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. </td> </tr> </tbody> </table>	Name	Description	<p>TLS This optional section will only be visible once TLS is selected from Blueprint Initial Setup Page.</p>	<p>TLS has two options:</p> <ul style="list-style-type: none"> • External LB VIP FQDN - -Text field. • External LB VIP TLS True/False. By default this option is false. 	<p>Under the OpenStack setup tab, Vim_admins tab will be visible only when Vim_admins is selected from the Optional Features & Services under the Blueprint Initial setup tab</p>	<p>Following are the field descriptions for VIM Admins:</p>  <ul style="list-style-type: none"> • User Name - Text field. • Password -Password field. Admin hash password should always start with \$6.
Name	Description							
<p>TLS This optional section will only be visible once TLS is selected from Blueprint Initial Setup Page.</p>	<p>TLS has two options:</p> <ul style="list-style-type: none"> • External LB VIP FQDN - -Text field. • External LB VIP TLS True/False. By default this option is false. 							
<p>Under the OpenStack setup tab, Vim_admins tab will be visible only when Vim_admins is selected from the Optional Features & Services under the Blueprint Initial setup tab</p>	<p>Following are the field descriptions for VIM Admins:</p>  <ul style="list-style-type: none"> • User Name - Text field. • Password -Password field. Admin hash password should always start with \$6. 							

	Command or Action	Purpose	
		Name	Description
		<p>Horizon Aliases</p>	<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> 

	Command or Action	Purpose																
		<table border="1"> <thead> <tr> <th data-bbox="906 275 1179 331">Name</th> <th data-bbox="1179 275 1492 331">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="906 331 1179 829"> <p>SwiftStack optional section will be visible once SwiftStack is selected from Blueprint Initial Setup Page. SwiftStack is only supported with KeyStonev2 . If you select Keystone3, swiftstack will not be available for configuration.</p> </td> <td data-bbox="1179 331 1492 829"> <p>Following are the options that needs to be filled for SwiftStack:</p>  </td> </tr> <tr> <td data-bbox="1179 856 1338 999">Cluster End Point field</td> <td data-bbox="1338 856 1492 999">IP address of PAC (By Account Container) endpoint.</td> </tr> <tr> <td data-bbox="1179 999 1338 1142">Admin User field</td> <td data-bbox="1338 999 1492 1142">Admin user for swift to authenticate in keystone.</td> </tr> <tr> <td data-bbox="1179 1142 1338 1381">Admin Tenant field</td> <td data-bbox="1338 1142 1492 1381">The service tenant corresponding to the Account Container used by the Swiftstack.</td> </tr> <tr> <td data-bbox="1179 1381 1338 1692">Reseller Prefix field</td> <td data-bbox="1338 1381 1492 1692">Reseller_prefix as configured for KeyStone Auth,AuthToken support in Swiftstack. Example: KEY_</td> </tr> <tr> <td data-bbox="1179 1692 1338 1801">Admin Password field</td> <td data-bbox="1338 1692 1492 1801">swiftadminpwd</td> </tr> <tr> <td data-bbox="1179 1801 1338 1866">Protocol</td> <td data-bbox="1338 1801 1492 1866">http or https</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 KeyStonev2 . 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> 	Cluster End Point field	IP address of PAC (By Account Container) endpoint.	Admin User field	Admin user for swift to authenticate in keystone.	Admin Tenant field	The service tenant corresponding to the Account Container used by the Swiftstack.	Reseller Prefix field	Reseller_prefix as configured for KeyStone Auth,AuthToken support in Swiftstack. Example: KEY_	Admin Password field	swiftadminpwd	Protocol	http or https
Name	Description																	
<p>SwiftStack optional section will be visible once SwiftStack is selected from Blueprint Initial Setup Page. SwiftStack is only supported with KeyStonev2 . If you select Keystone3, swiftstack will not be available for configuration.</p>	<p>Following are the options that needs to be filled for SwiftStack:</p> 																	
Cluster End Point field	IP address of PAC (By Account Container) endpoint.																	
Admin User field	Admin user for swift to authenticate in keystone.																	
Admin Tenant field	The service tenant corresponding to the Account Container used by the Swiftstack.																	
Reseller Prefix field	Reseller_prefix as configured for KeyStone Auth,AuthToken support in Swiftstack. Example: KEY_																	
Admin Password field	swiftadminpwd																	
Protocol	http or https																	

	Command or Action	Purpose																		
		<p>j. For SolidFire, enter the following:</p> <table border="1" data-bbox="941 325 1526 1344"> <thead> <tr> <th data-bbox="941 325 1234 378">Name</th> <th data-bbox="1234 325 1526 378">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="941 378 1234 462">SolidFire is visible for configuration on day0</td> <td data-bbox="1234 378 1526 462">  </td> </tr> <tr> <td data-bbox="941 462 1234 546">SolidFire is not allowed as a day-2 deployment option</td> <td data-bbox="1234 462 1526 546"></td> </tr> <tr> <td data-bbox="941 546 1234 630">SolidFire is always available with CEPH.</td> <td data-bbox="1234 546 1526 630"></td> </tr> <tr> <td data-bbox="941 630 1234 756"></td> <td data-bbox="1234 630 1526 756"></td> </tr> <tr> <td data-bbox="941 756 1234 924">Cluster MVIP field</td> <td data-bbox="1234 756 1526 924">Management IP of SolidFire cluster.</td> </tr> <tr> <td data-bbox="941 924 1234 1050">Cluster SVIP field</td> <td data-bbox="1234 924 1526 1050">Storage VIP of SolidFire cluster.</td> </tr> <tr> <td data-bbox="941 1050 1234 1165">Admin Username</td> <td data-bbox="1234 1050 1526 1165">Admin user on SolidFire cluster</td> </tr> <tr> <td data-bbox="941 1165 1234 1344">Admin Password</td> <td data-bbox="1234 1165 1526 1344">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																
		<table border="1"> <thead> <tr> <th data-bbox="857 275 1162 323">Name</th> <th data-bbox="1162 275 1492 323">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="857 323 1162 1386">Syslog Export</td> <td data-bbox="1162 323 1492 1386"> <p>Following are the options for Syslog Settings:</p> <p>Create Blueprint configuration</p>  <table border="1"> <tbody> <tr> <td data-bbox="1162 772 1328 863">Remote Host</td> <td data-bbox="1328 772 1492 863">Enter Syslog IP address.</td> </tr> <tr> <td data-bbox="1162 863 1328 953">Protocol</td> <td data-bbox="1328 863 1492 953">Only UDP is supported.</td> </tr> <tr> <td data-bbox="1162 953 1328 1043">Facility</td> <td data-bbox="1328 953 1492 1043">Defaults to local5.</td> </tr> <tr> <td data-bbox="1162 1043 1328 1134">Severity</td> <td data-bbox="1328 1043 1492 1134">Defaults to debug.</td> </tr> <tr> <td data-bbox="1162 1134 1328 1224">Clients</td> <td data-bbox="1328 1134 1492 1224">Defaults to ELK.</td> </tr> <tr> <td data-bbox="1162 1224 1328 1386">Port</td> <td data-bbox="1328 1224 1492 1386">Defaults to 514 but can be modified by the User.</td> </tr> </tbody> </table> </td> </tr> </tbody> </table>	Name	Description	Syslog Export	<p>Following are the options for Syslog Settings:</p> <p>Create Blueprint configuration</p>  <table border="1"> <tbody> <tr> <td data-bbox="1162 772 1328 863">Remote Host</td> <td data-bbox="1328 772 1492 863">Enter Syslog IP address.</td> </tr> <tr> <td data-bbox="1162 863 1328 953">Protocol</td> <td data-bbox="1328 863 1492 953">Only UDP is supported.</td> </tr> <tr> <td data-bbox="1162 953 1328 1043">Facility</td> <td data-bbox="1328 953 1492 1043">Defaults to local5.</td> </tr> <tr> <td data-bbox="1162 1043 1328 1134">Severity</td> <td data-bbox="1328 1043 1492 1134">Defaults to debug.</td> </tr> <tr> <td data-bbox="1162 1134 1328 1224">Clients</td> <td data-bbox="1328 1134 1492 1224">Defaults to ELK.</td> </tr> <tr> <td data-bbox="1162 1224 1328 1386">Port</td> <td data-bbox="1328 1224 1492 1386">Defaults to 514 but can be modified by the User.</td> </tr> </tbody> </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.
Name	Description																	
Syslog Export	<p>Following are the options for Syslog Settings:</p> <p>Create Blueprint configuration</p>  <table border="1"> <tbody> <tr> <td data-bbox="1162 772 1328 863">Remote Host</td> <td data-bbox="1328 772 1492 863">Enter Syslog IP address.</td> </tr> <tr> <td data-bbox="1162 863 1328 953">Protocol</td> <td data-bbox="1328 863 1492 953">Only UDP is supported.</td> </tr> <tr> <td data-bbox="1162 953 1328 1043">Facility</td> <td data-bbox="1328 953 1492 1043">Defaults to local5.</td> </tr> <tr> <td data-bbox="1162 1043 1328 1134">Severity</td> <td data-bbox="1328 1043 1492 1134">Defaults to debug.</td> </tr> <tr> <td data-bbox="1162 1134 1328 1224">Clients</td> <td data-bbox="1328 1134 1492 1224">Defaults to ELK.</td> </tr> <tr> <td data-bbox="1162 1224 1328 1386">Port</td> <td data-bbox="1328 1224 1492 1386">Defaults to 514 but can be modified by the User.</td> </tr> </tbody> </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.																	

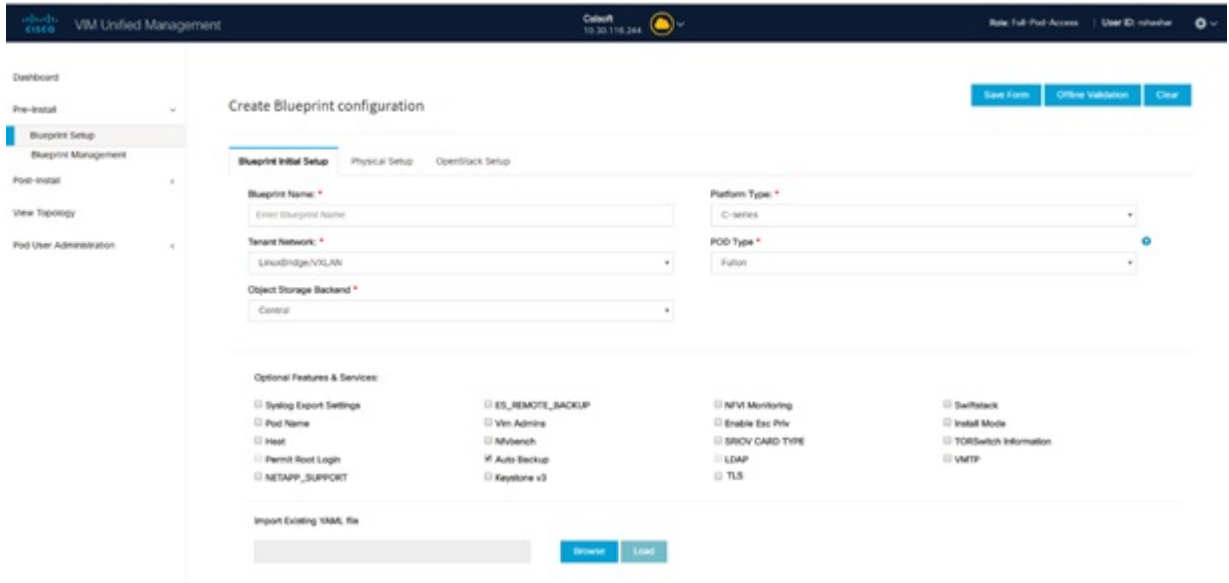
Command or Action	Purpose	
	Name	Description
	NFVBENCH	<p>NFVBENCH enable checkbox which by default is <i>False</i>.</p> <p>Create Blueprint configuration</p>  <p>Add ToR information connected to switch:</p> <ul style="list-style-type: none"> • Select a TOR Switch and enter the Switch name. • Enter the 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:

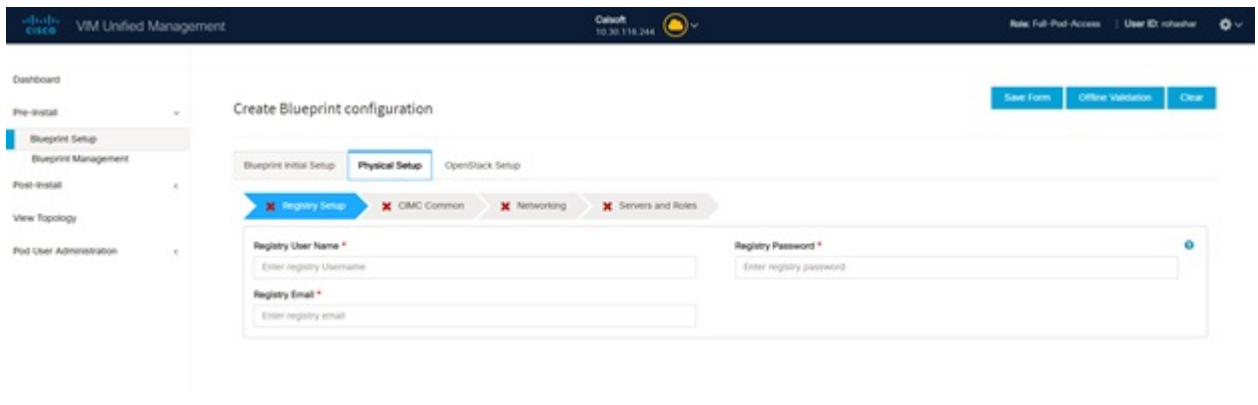


Name	Description
Blueprint Name field.	Enter the name for the blueprint configuration.
Platform Type drop-down list	Choose one of the following platform types: <ul style="list-style-type: none"> • B-Series (By default) • C-Series (Select C Series)

Name	Description
Tenant Network drop-down list	<p>Choose one of the following tenant network types:</p> <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	<p>Choose one of the following pod type :</p> <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	<p>Choose one of the following Ceph types:</p> <ul style="list-style-type: none"> • Dedicated: Enabled by default. • Central. It is not supported in production
SSH Banner	<p>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.</p>

Name	Description
Optional and Services Features checkbox	LDAP, Syslog Export Settings, Install Mode, TorSwitch Information, TLS, NFVMON, Pod Name, VMTP, NFVBench, Autbackup, Heat, Keystone v3, Enable Esc Priv. If any one is selected, the corresponding section is visible in various Blueprint sections. By default all features are disabled except Auto Backup.
Import Existing YAML file	If you have an existing C Series YAML file you can use this feature to upload the file. Unified Management will automatically fill in the fields and any missed mandatory field will be highlighted in the respective section.

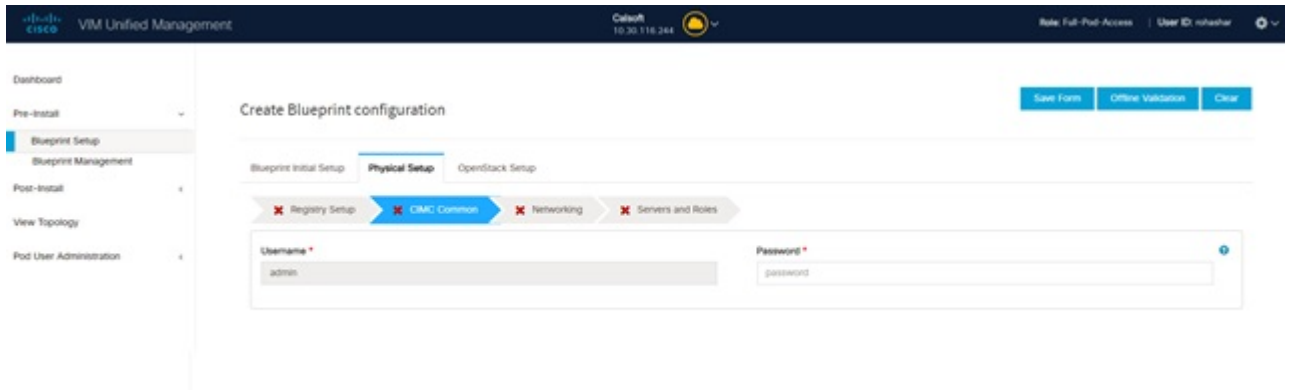
- b. Click **Physical Setup** to advance to the **Registry Setup** configuration page. Fill in the following details for Registry Setup:



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

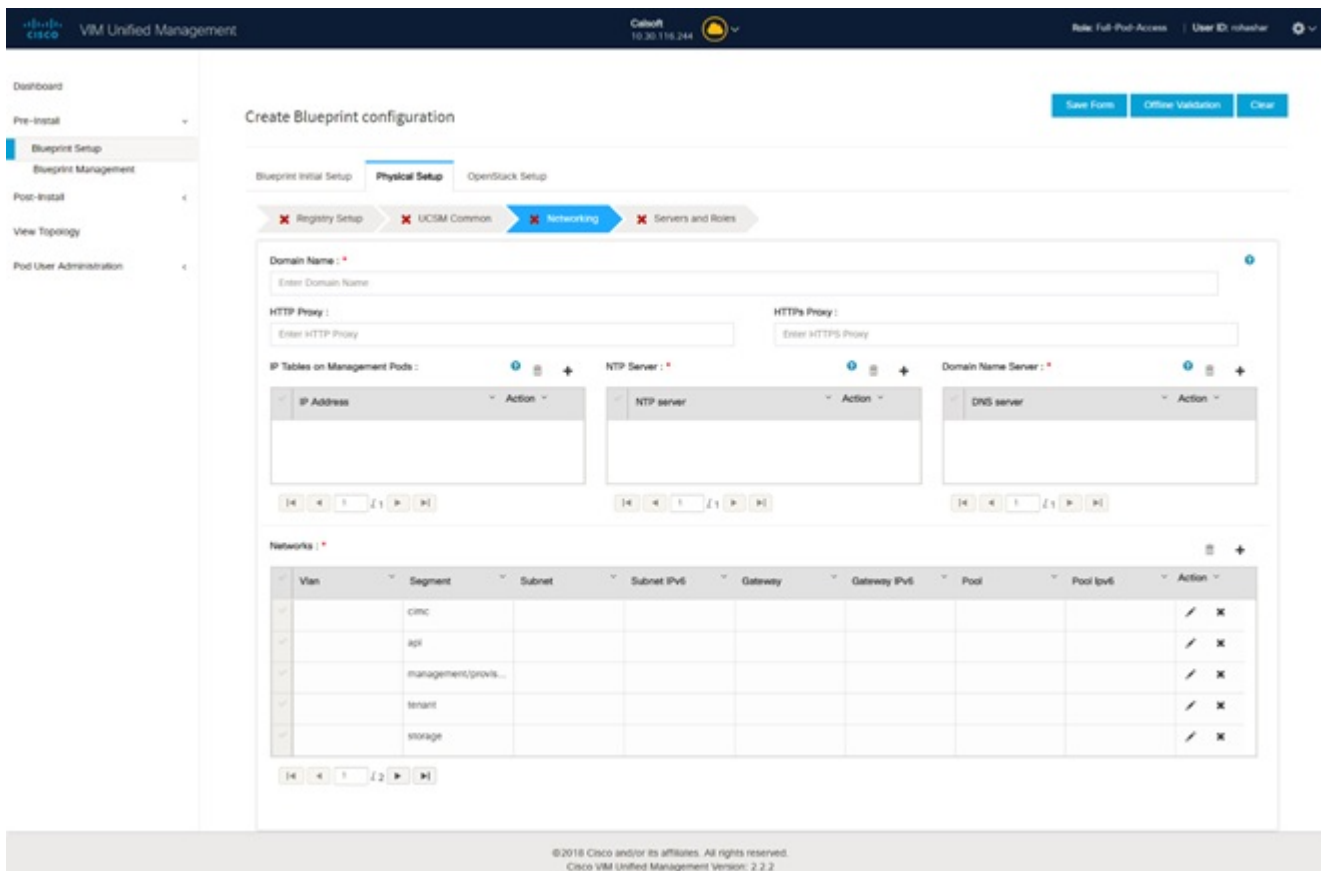
Once all the mandatory fields are filled the **Validation Check Registry Page** will be changed to a Green Tick.

- 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).

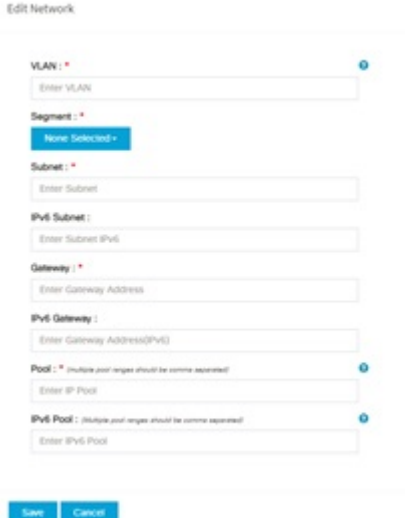
d. Click **Networking** to advance to the networking section of the Blueprint.



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.

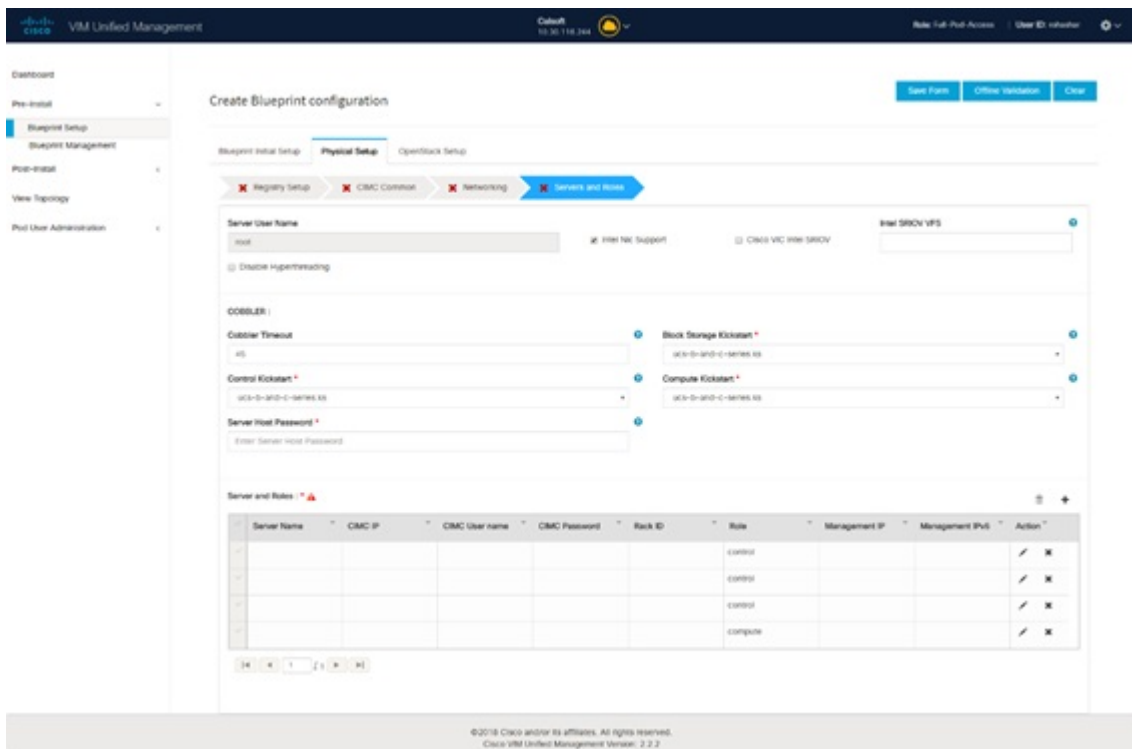
Name	Description
Networks table	

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="886 1270 1179 1302">Name</th> <th data-bbox="1192 1270 1485 1302">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="886 1310 1179 1444"> <p>VLAN field</p> </td> <td data-bbox="1192 1310 1485 1444"> <p>Enter the VLAN ID.</p> <p>For Segment - Provider, the VLAN ID value is 'none'.</p> </td> </tr> <tr> <td data-bbox="886 1453 1179 1856"> <p>Segment drop-down list</p> </td> <td data-bbox="1192 1453 1485 1856"> <p>When you add/edit new segment then following segments types are available in the form of dropdown list and you can select only one.</p> <ul style="list-style-type: none"> • API • Management/provision • Tenant • Storage </td> </tr> </tbody> </table>	Name	Description	<p>VLAN field</p>	<p>Enter the VLAN ID.</p> <p>For Segment - Provider, the VLAN ID value is 'none'.</p>	<p>Segment drop-down list</p>	<p>When you add/edit new segment then following segments types are available in the form of dropdown list and you can select only one.</p> <ul style="list-style-type: none"> • API • Management/provision • Tenant • Storage 	
Name	Description						
<p>VLAN field</p>	<p>Enter the VLAN ID.</p> <p>For Segment - Provider, the VLAN ID value is 'none'.</p>						
<p>Segment drop-down list</p>	<p>When you add/edit new segment then following segments types are available in the form of dropdown list and you can select only one.</p> <ul style="list-style-type: none"> • API • Management/provision • Tenant • Storage 						

Name	Description	
		<ul style="list-style-type: none"> • External • Provider • ACIINFRA <p>Note Aciiinfra segment is available only when ACI/VLAN tenant type is selected) Depending upon the segment some of the entries below are not needed. Please refer to the example file in openstack-configs dir for details.</p>
	Subnet field	Enter the IPv4 address for the subnet.
	IPv6 Subnet field	Enter IPv6 Address. This field will be available only for Management provision and API
	Gateway field	Enter the IPv4 address for the Gateway.
	Gateway IPv6 field	Enter the IPv6 address for the gateway. This will support for API and management provision.
	Pool field	Enter the pool information in the required format, for example: 10.1.15-10.1.1.10,102.15-102.1.10 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
	<p>Allowed only when ToR is NCS-5500</p> <p>Can only be defined for management/provision, storage, and tenant segments</p>
	<p>Click Save.</p>

- 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 data-bbox="889 520 1528 1766" style="border: 1px solid #ccc; padding: 10px;"> <p style="text-align: center; margin-bottom: 10px;">Server And Roles</p> <p>Server Name * +</p> <input type="text" value="Enter Server Name"/> <p>VIC Slot</p> <input type="text" value="Enter VIC Slot"/> <p>CIMC IP * +</p> <input type="text" value="Enter CIMC IP Address"/> <p>CIMC User Name</p> <input type="text" value="Enter CIMC Username"/> <p>CIMC Password +</p> <input type="text" value="Enter CIMC Password"/> <p>Rack ID * +</p> <input type="text" value="Enter Rack ID"/> <p>Role *</p> <div style="border: 1px solid #ccc; padding: 2px; width: 100%;">CONTROL</div> <p>Disable Hyperthreading</p> <div style="border: 1px solid #ccc; padding: 2px; width: 100%; text-align: right;">▼</div> <p>Num Root Drive</p> <input type="text"/> <p>Root Drive Type</p> <div style="border: 1px solid #ccc; padding: 2px; width: 100%; text-align: right;">▼</div> <p>VIC Admin FEC mode +</p> <div style="border: 1px solid #ccc; padding: 2px; width: 100%; text-align: right;">▼</div> <p>VIC Port Channel Enable +</p> <div style="border: 1px solid #ccc; padding: 2px; width: 100%; text-align: right;">▼</div> <p>Vendor +</p> <div style="border: 1px solid #ccc; padding: 2px; width: 100%; text-align: right;">▼</div> <p>Secure Computing Mode +</p> <div style="border: 1px solid #ccc; padding: 2px; width: 100%; text-align: right;">▼</div> <p>Management IP +</p> <input type="text" value="Enter Management IP Address"/> <p>Storage IP +</p> <input type="text" value="Enter Storage IP Address"/> <p>Management IPv6 +</p> <input type="text" value="Enter Management IPv6 Address"/> </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/cl74/cl91.
	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.

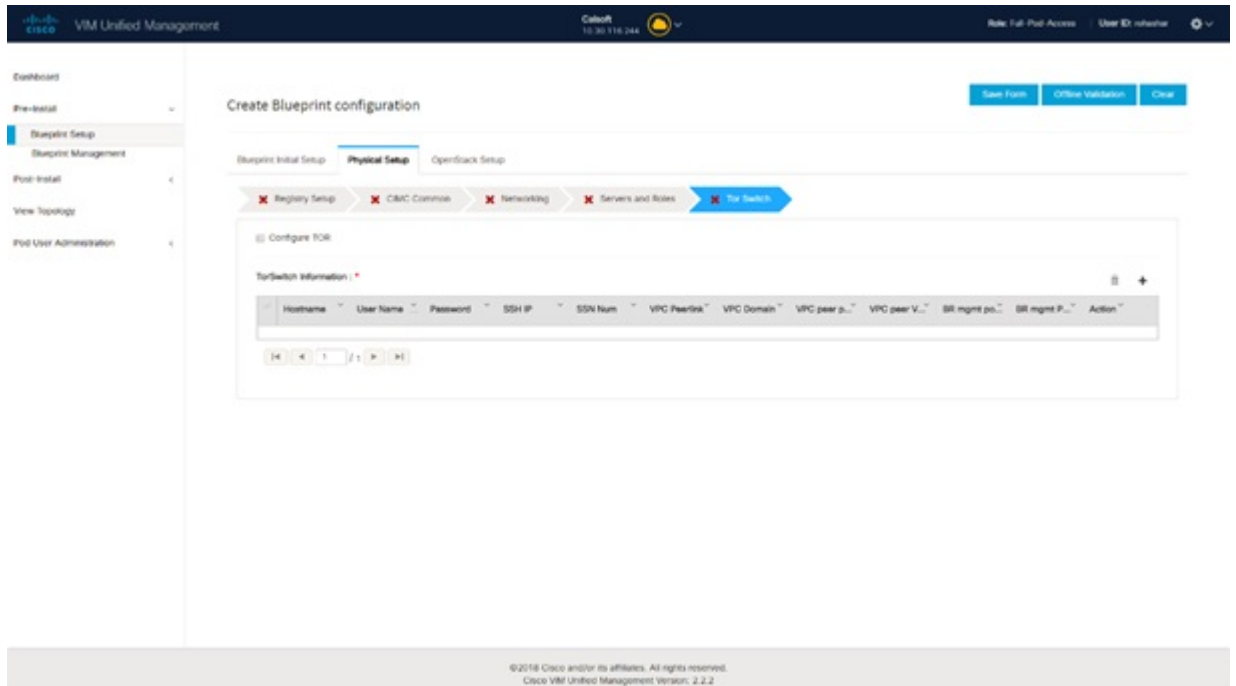
Name	Description
<p>SRIOV TOR INFO (Only for Compute Nodes). It is mandatory in server and roles if Intel NIC and Configure TOR is True. with TOR TYPE Nexus. For TOR TYPE NCS-5500 these fields are optional</p> <p>Switch Name (Mandatory if Configure ToR is true). This field appears only when Intel NIC support is true, as Auto TOR config is not supported in VIC_NIC combo</p>	<ul style="list-style-type: none"> • Switch Name field • Switch Port Info field <ul style="list-style-type: none"> • Enter the switch name. • Enter the switch port information.
<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

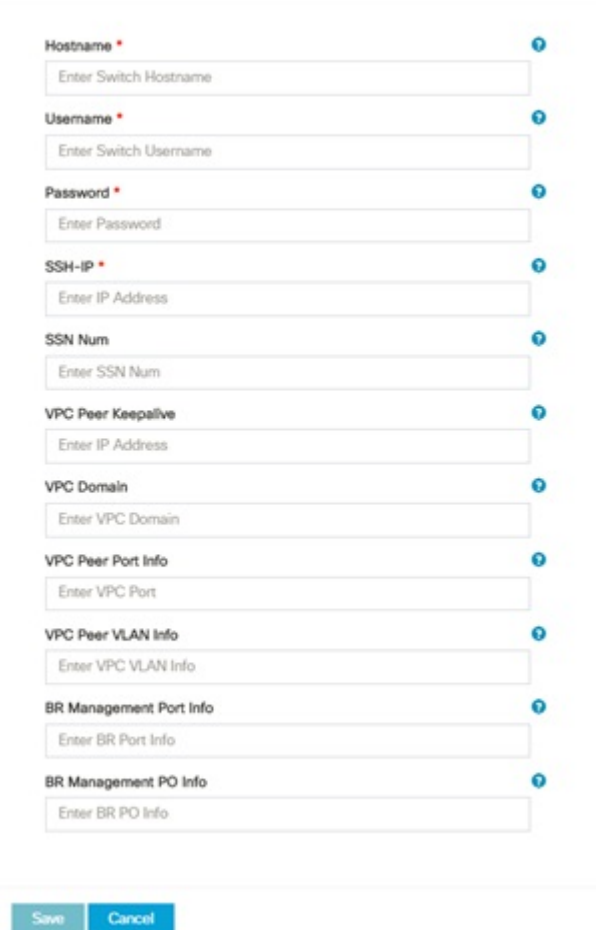
Note For Tenant type **ACI/VLAN**, port channel for each ToR port will not be available in servers and roles, as APIC will automatically assign port-channel numbers. Also, for ACI in full on mode you can select Intel NIC Support in the “Servers and Roles” section.

- 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> 																
	<table border="1"> <thead> <tr> <th data-bbox="836 1375 1177 1428">Name</th> <th data-bbox="1177 1375 1518 1428">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="836 1428 1177 1480">Name</td> <td data-bbox="1177 1428 1518 1480">ToR switch name.</td> </tr> <tr> <td data-bbox="836 1480 1177 1533">Username</td> <td data-bbox="1177 1480 1518 1533">ToR switch username.</td> </tr> <tr> <td data-bbox="836 1533 1177 1585">Password</td> <td data-bbox="1177 1533 1518 1585">ToR switch password.</td> </tr> <tr> <td data-bbox="836 1585 1177 1638">SSH IP</td> <td data-bbox="1177 1585 1518 1638">ToR switch SSH IP.</td> </tr> <tr> <td data-bbox="836 1638 1177 1690">SSN Num</td> <td data-bbox="1177 1638 1518 1690">ToR switch ssn num.</td> </tr> <tr> <td data-bbox="836 1690 1177 1743">VPC Peer Keepalive</td> <td data-bbox="1177 1690 1518 1743">Peer Management IP. You cannot define if there is no peer.</td> </tr> <tr> <td data-bbox="836 1743 1177 1795">VPC Domain</td> <td data-bbox="1177 1743 1518 1795">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.

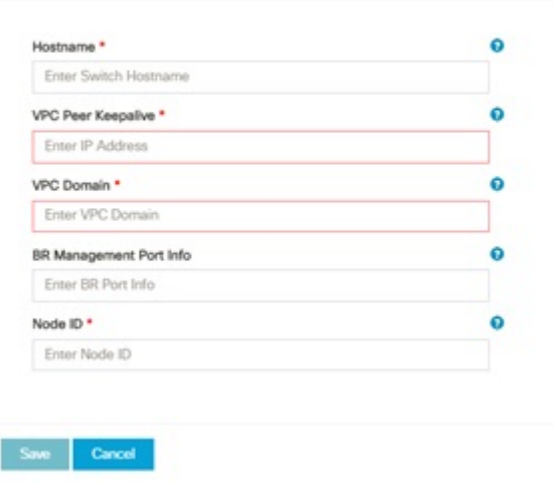
Name	Description	
<p>Configure ToR optional checkbox.</p> <p>Note If UMHC is selected as podtype, configure TOR is not allowed.</p>	<p>Enabling this checkbox, changes the configure ToR section from false to true.</p> <p>Note Configure tor is true then ToR switch info maps in servers</p>	

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> <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 style="width: 50%;">Name</th> <th style="width: 50%;">Description</th> </tr> </thead> <tbody> <tr> <td>Name</td> <td>ToR switch name.</td> </tr> <tr> <td>Username</td> <td>ToR switch username.</td> </tr> <tr> <td>Password</td> <td>ToR switch password.</td> </tr> <tr> <td>SSH IP</td> <td>ToR switch SSH IP.</td> </tr> <tr> <td>SSN Num</td> <td>ToR switch ssn num.</td> </tr> <tr> <td>VPC Peer Keepalive</td> <td>Peer Management IP. You cannot define if there is no peer.</td> </tr> <tr> <td>VPC Domain</td> <td>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="883 911 1487 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>
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.

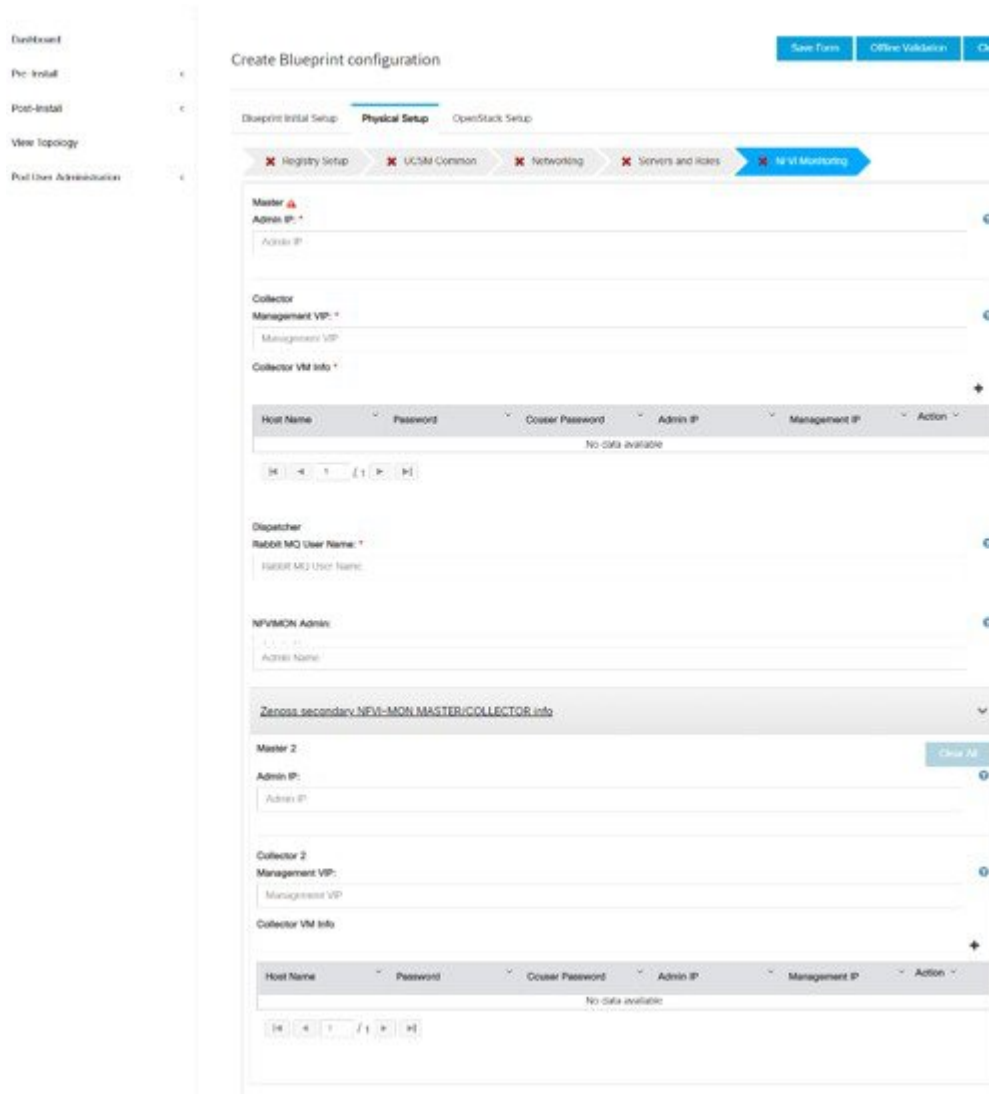
When TOR-TYPE selected as NCS-5500 and 2 NCS-5500 are configured, it is mandatory to configure MULTI_SEGMENT_ROUTING_INFO

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).

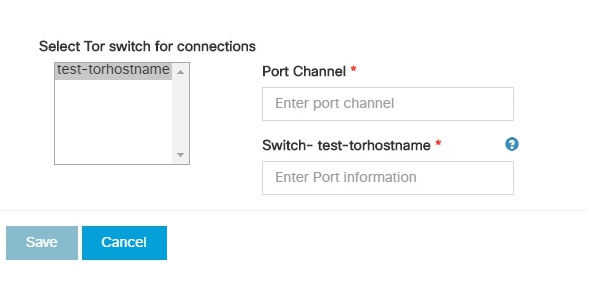
When TOR-TYPE is NCS-5500, you can optionally define ESI_PREFIX field.

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"> 1. Click on (+) icon to Add Collector ToR Connections. 2. Select the ToR switches from list to add the information. 3. It is optional and available for ToR type NCS-5500 4. For now, it supports adding only one Collector ToR Connection <p>Add Collector Tor Connections</p>  <table border="1" data-bbox="925 1606 1518 1732"> <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.

Create Blueprint configuration Save Form Offline Validation Clear

Blueprint Initial Setup **Physical Setup** OpenStack Setup

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

Enable

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		

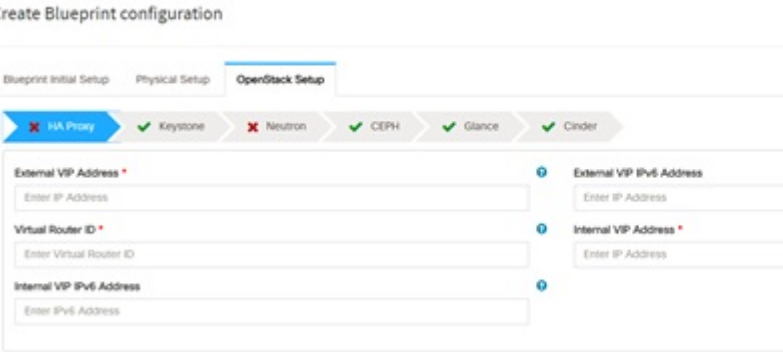

Domain Mappings + +

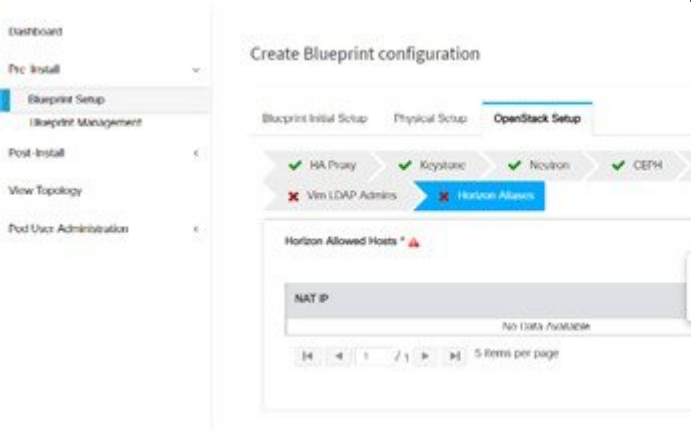
Domain Name...	Attributes	Bind DN	Bind Passwor...	LDAP URI	Search Base D...	Search Filter ...	Action
No Data Available							

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

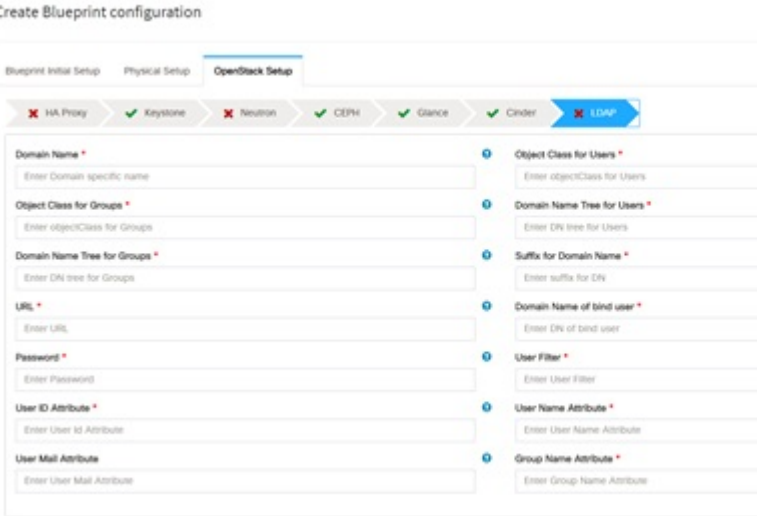
Name	Description
High Frequency	Minimum of 10 seconds (10s) and maximum of 60 mins (1h). If not defined, defaults to 15s.
Medium Frequency	Minimum of 30 seconds (30s) and maximum of 60 mins (1h). If not defined, defaults to 30s. It must be more than high interval
Low Frequency	Minimum of 1 minute (1m) 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="802 806 1489 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="802 1591 1489 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.										

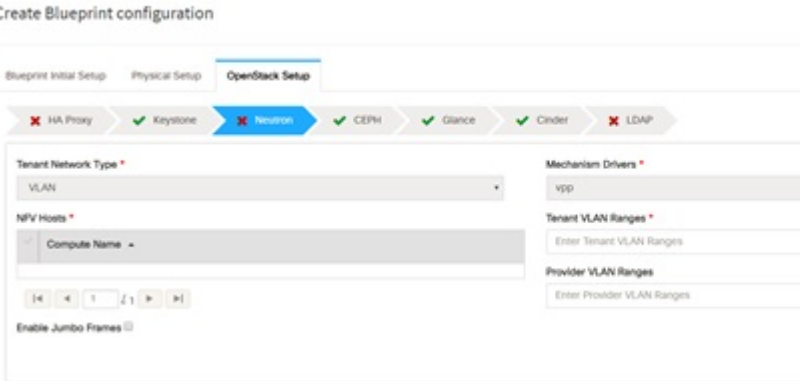
Name	Description
<p>Horizon Aliases</p>	<p>If the external <code>_lb_vip</code> is behind a NAT router or with a DNS alias, provide a list of those addresses.</p>  <p>Horizon Allowed hosts– NAT IP : Uses comma separated list of IP addresses and/or DNS names</p>

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="841 940 1531 1848"> <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.																										

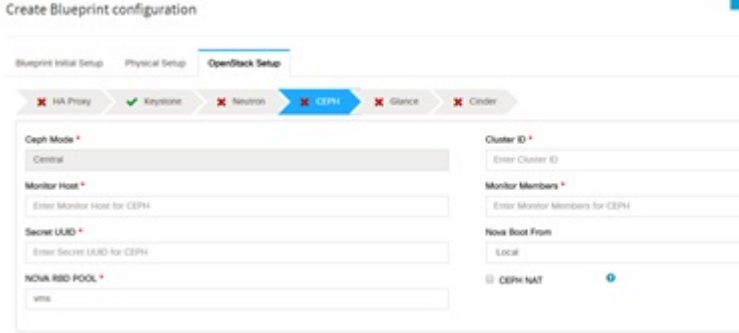

Name	Description		
	<table border="1"><tr><td data-bbox="805 285 1143 331">Group Name Attribute field</td><td data-bbox="1149 285 1479 331">Enter a string.</td></tr></table>	Group Name Attribute field	Enter a string.
Group Name Attribute field	Enter a string.		


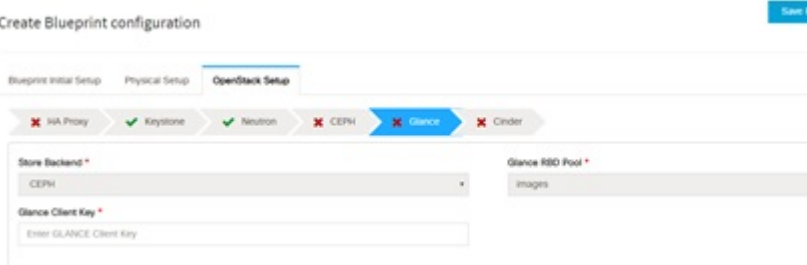

Name	Description
Neutron	



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

Name	Description
	<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>	

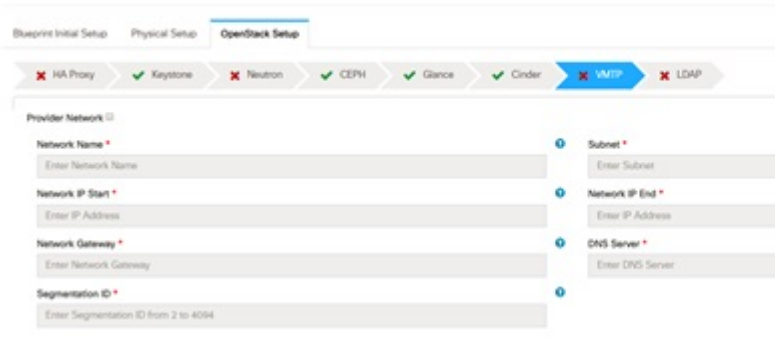

Name	Description
CEPH	

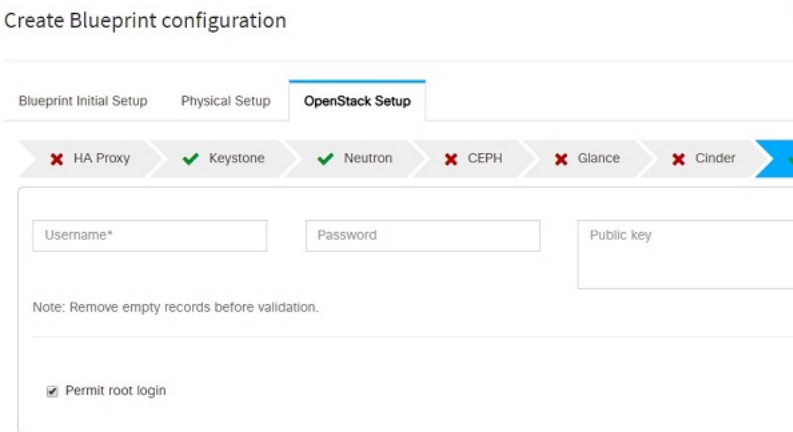
Name	Description																
	<p>1. 1. When Object Storage Backend is selected Central in blueprint initial setup.</p>  <table border="1" data-bbox="885 751 1531 1255"> <tr> <td>CEPH Mode</td> <td>By default Central.</td> </tr> <tr> <td>Cluster ID</td> <td>Enter Cluster ID.</td> </tr> <tr> <td>Monitor 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 Percentatge : Must be 60% • Glance Percentatge: 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>Create Blueprint configuration</p>  <p>2. When Object Storage Backend is selected Dedicated in blueprint initial setup.</p> <p>Create Blueprint configuration</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.	

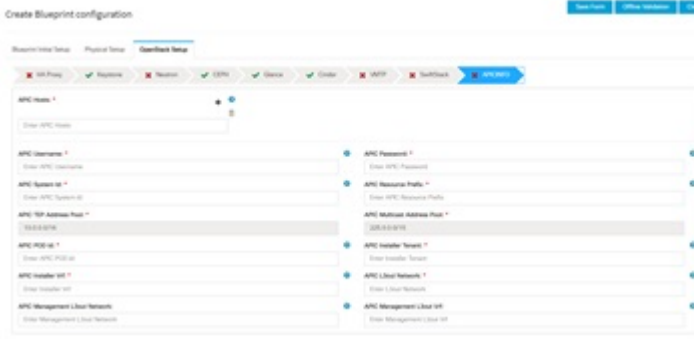
Name	Description		
	<p>Check one of the check boxes to specify a VMTP network:</p> <ul style="list-style-type: none"> • Provider Network • External Network <p>For the Provider Network complete the following:</p> <p>Create Blueprint configuration</p> 		
	<table border="1"> <tr> <td data-bbox="837 926 1182 1003">Network Name field</td> <td data-bbox="1182 926 1518 1003">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="837 1014 1182 1092">Subnet field</td> <td data-bbox="1182 1014 1518 1092">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="837 1102 1182 1180">Network IP Start field</td> <td data-bbox="1182 1102 1518 1180">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="837 1190 1182 1268">Network IP End field</td> <td data-bbox="1182 1190 1518 1268">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="837 1278 1182 1356">Network Gatewayfield</td> <td data-bbox="1182 1278 1518 1356">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="837 1367 1182 1444">DNS Server field</td> <td data-bbox="1182 1367 1518 1444">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="837 1455 1182 1533">Segmentation ID field</td> <td data-bbox="1182 1455 1518 1533">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="805 1612 1487 1801"> <tbody> <tr> <td data-bbox="805 1612 1143 1682">User Name</td> <td data-bbox="1149 1612 1487 1682">Enter username</td> </tr> <tr> <td data-bbox="805 1682 1143 1801">Password</td> <td data-bbox="1149 1682 1487 1801">Password field. Admin hash password should always start with \$6.</td> </tr> </tbody> </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>).	

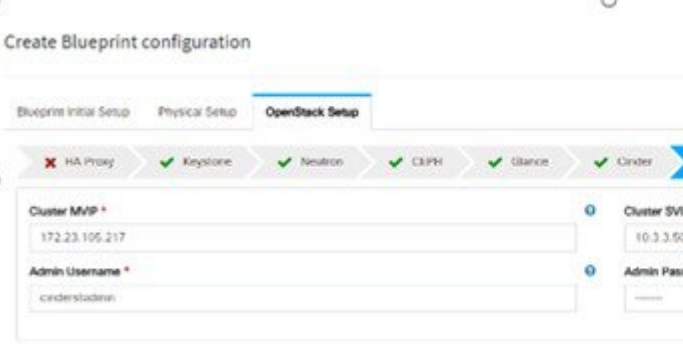
Name	Description				
	<p>Following are the values to be filled to add vim LDAP admins:</p> <div data-bbox="808 342 1477 1596" style="border: 1px solid #ccc; padding: 10px;"> <p>Add Vim LDAP Admins</p> <p>Domain Name *</p> <input type="text" value="Enter Domain Name"/> <p>LDAP URI *</p> <input type="text" 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>Ctppass Provider</p> <input type="text" value="Select"/> <p><input type="button" value="Save"/> <input type="button" value="Cancel"/></p> </div> <table border="1" data-bbox="808 1627 1477 1837"> <tr> <td data-bbox="808 1627 1144 1753">domain_name</td> <td data-bbox="1151 1627 1477 1753">Mandatory field. Indicates the domain name to define vim LDAP admins.</td> </tr> <tr> <td data-bbox="808 1761 1144 1837">ldap_uri</td> <td data-bbox="1151 1761 1477 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

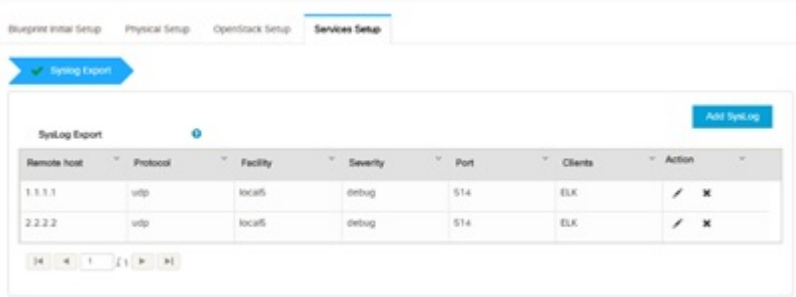
Name	Description
<p>APICINFO tab is available in Openstack setup, when the Tenant type ACI/VLAN is selected in blueprint initial setup.</p> <p>Note When ACI/VLAN is selected then ToR switch from initial setup is mandatory.</p>	
Name	Description
<p>APIC Hosts field</p>	<p>Enter host input. Example: <ip1 host1>:[port] . max of 3, min of 1, not 2;</p>
<p>apic_username field</p>	<p>Enter a string format.</p>
<p>apic_password field</p>	<p>Enter Password.</p>
<p>apic_system_id field</p>	<p>Enter input as string. Max length 8.</p>
<p>apic_resource_prefix field</p>	<p>Enter string max length 6.</p>
<p>apic_tep_address_pool field</p>	<p>Allowed only 10.0.0.0/16</p>
<p>multiclass_address_pool field</p>	<p>Allowed only 225.0.0.0/15</p>
<p>apic_pod_id field</p>	<p>Enter integer(1- 65535)</p>
<p>apic_installer_tenant field</p>	<p>Enter String, max length 32</p>
<p>apic_installer_vrf field</p>	<p>Enter String, max length 32</p>
<p>api_l3out_network field</p>	<p>Enter String, max length 32</p>

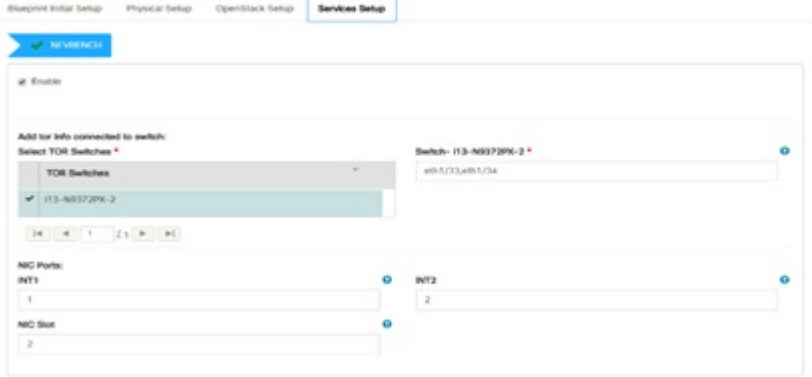
Name	Description														
<p>VTS tab is available in Openstack setup, when Tenant Type is VTS/VLAN selected.</p> <p>If vts day0 is enabled then SSH username and SSH password is mandatory.</p> <p>If SSH_username is input present then SSH password is mandatory vice-versa</p>	 <table border="1" data-bbox="841 562 1528 995"> <thead> <tr> <th data-bbox="841 562 1182 617">Name</th> <th data-bbox="1182 562 1528 617">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="841 617 1182 680">VTS Day0 (checkbox)</td> <td data-bbox="1182 617 1528 680">True or false default is false.</td> </tr> <tr> <td data-bbox="841 680 1182 764">VTS User name</td> <td data-bbox="1182 680 1528 764">Enter as string does not contain special characters.</td> </tr> <tr> <td data-bbox="841 764 1182 827">VTS Password</td> <td data-bbox="1182 764 1528 827">Enter password</td> </tr> <tr> <td data-bbox="841 827 1182 890">VTS NCS IP</td> <td data-bbox="1182 827 1528 890">Enter IP Address format.</td> </tr> <tr> <td data-bbox="841 890 1182 953">VTC SSH Username</td> <td data-bbox="1182 890 1528 953">Enter a string</td> </tr> <tr> <td data-bbox="841 953 1182 995">VTC SHH Password</td> <td data-bbox="1182 953 1528 995">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														

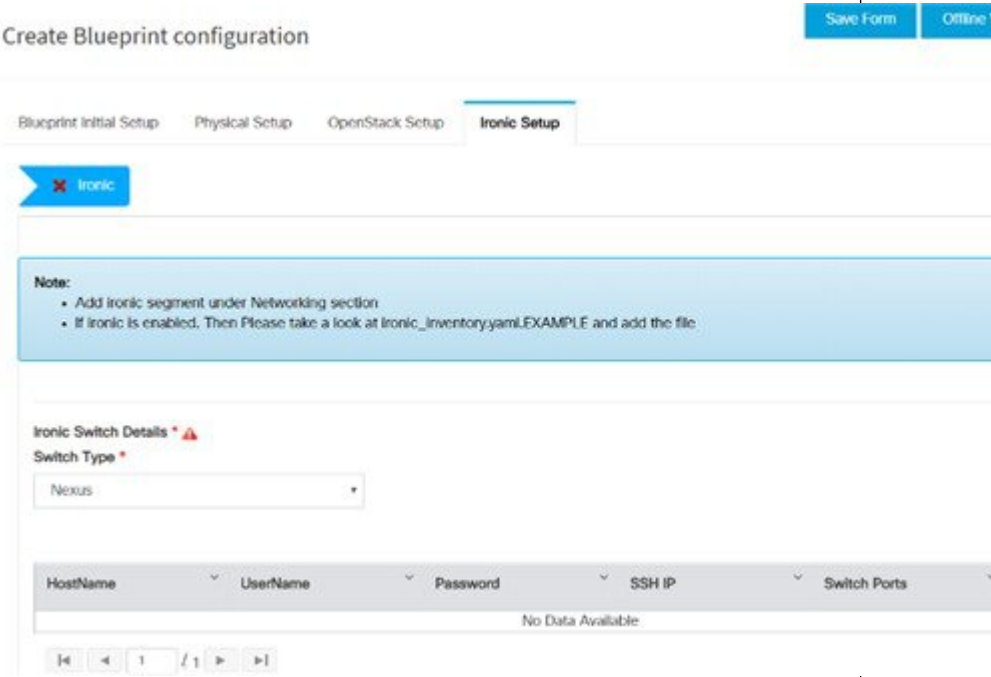
j. For SolidFire, enter the following:

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="922 1522 1528 1822"> <tbody> <tr> <td data-bbox="922 1522 1141 1619">Cluster MVIP field</td> <td data-bbox="1141 1522 1528 1619">Management IP of SolidFire cluster.</td> </tr> <tr> <td data-bbox="922 1619 1141 1682">Cluster SVIP field</td> <td data-bbox="1141 1619 1528 1682">Storage VIP of SolidFire cluster.</td> </tr> <tr> <td data-bbox="922 1682 1141 1734">Admin Username</td> <td data-bbox="1141 1682 1528 1734">Admin user on SolidFire cluster</td> </tr> <tr> <td data-bbox="922 1734 1141 1822">Admin Password</td> <td data-bbox="1141 1734 1528 1822">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.								

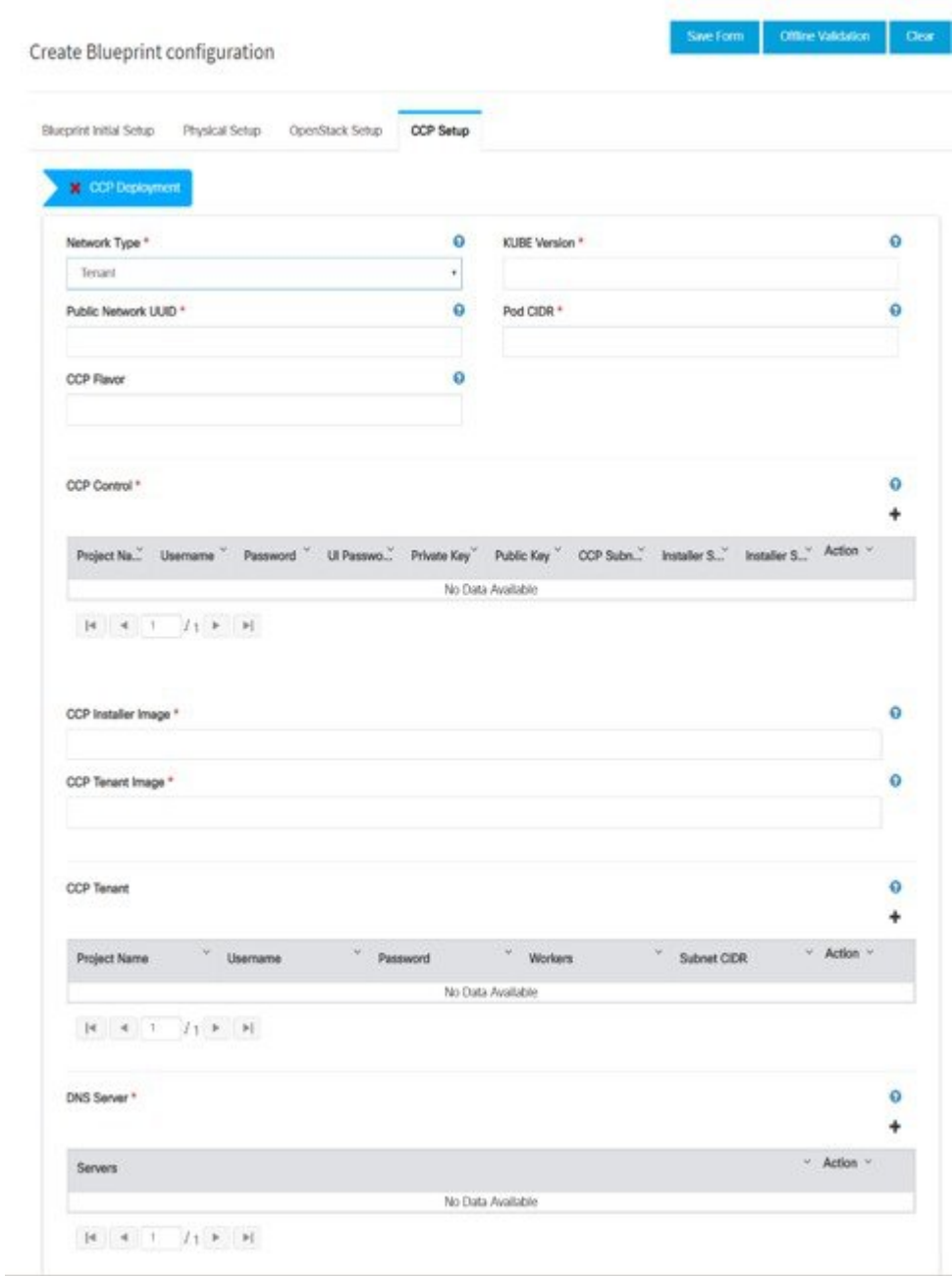
- k. If **Syslog Export** or **NFVBENCH** is selected in **Blueprint Initial Setup** Page, then **Services Setup** page will be enabled for user to view. Following are the options under **Services Setup** Tab:

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="630 877 1487 1255"> <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.												

Name	Description
<p>NFVBENCH</p>	<p>NFVBENCH enable checkbox by default is false.</p> <p>Add ToR information connect to Switch:</p>  <ul style="list-style-type: none"> • Select a TOR Switch and enter the Switch name. • Enter the port number. For example, eth1/5 . VTEP VLANS (mandatory and needed only for VTS/VXLAN). Enter 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.  <table border="1" data-bbox="621 1213 1489 1785"> <tbody> <tr> <td data-bbox="621 1213 768 1304">Switch Type</td> <td data-bbox="768 1213 1489 1304">It can be Nexus, ACI, or BypassNeutron</td> </tr> <tr> <td data-bbox="621 1304 768 1394">Hostname</td> <td data-bbox="768 1304 1489 1394">Enter ironic hostname. Required only if Switch Type is ACI or BypassNeutron.</td> </tr> <tr> <td data-bbox="621 1394 768 1484">Username</td> <td data-bbox="768 1394 1489 1484">Enter ironic username. Required only if Switch Type is ACI or BypassNeutron.</td> </tr> <tr> <td data-bbox="621 1484 768 1575">Password</td> <td data-bbox="768 1484 1489 1575">Enter the ironic password. Required only if Switch Type is ACI or BypassNeutron.</td> </tr> <tr> <td data-bbox="621 1575 768 1665">SSH IP</td> <td data-bbox="768 1575 1489 1665">Enter ironic switch SSH IP. Required only if Switch Type is ACI or BypassNeutron.</td> </tr> <tr> <td data-bbox="621 1665 768 1785">Switch Ports</td> <td data-bbox="768 1665 1489 1785">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> </tbody> </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> 
<p>Network type</p>	<p>It can be Tenant or Provider.</p>

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)

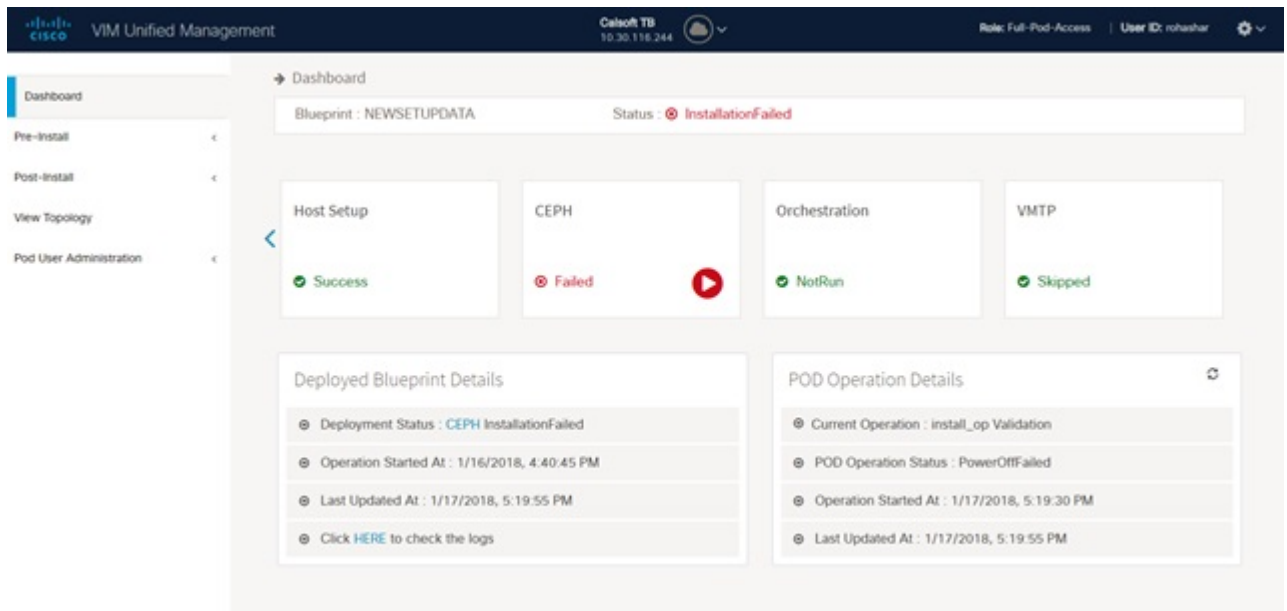
Step 5 Click **Offline validation** button to initiate an offline validation of the Blueprint.

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

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 atleast 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

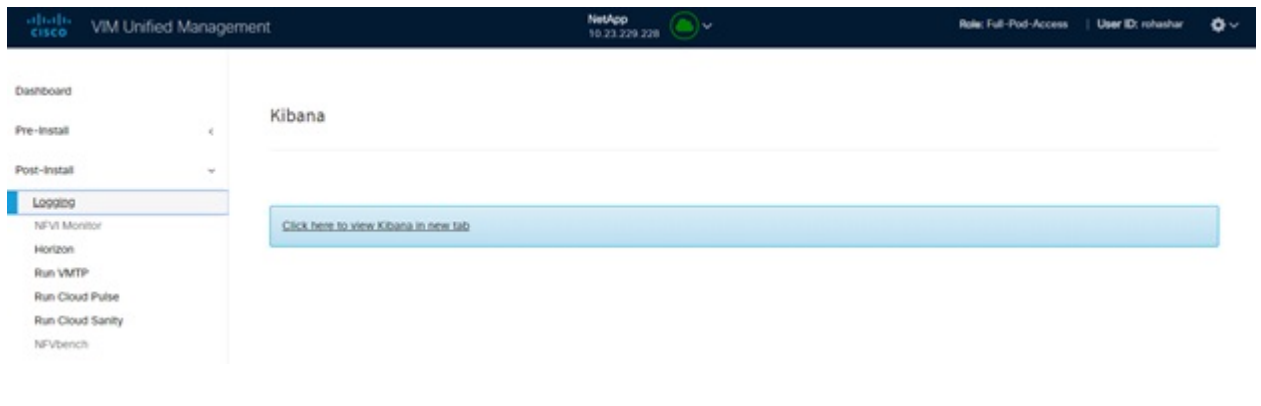
Cisco VIM provides an orchestration that helps in lifecycle management of a cloud. VIM is responsible for pod management activities which includes fixing both hardware and software issues with one-touch automation. VIM Unified Management provides the visualization of the stated goal. As a result, it 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.

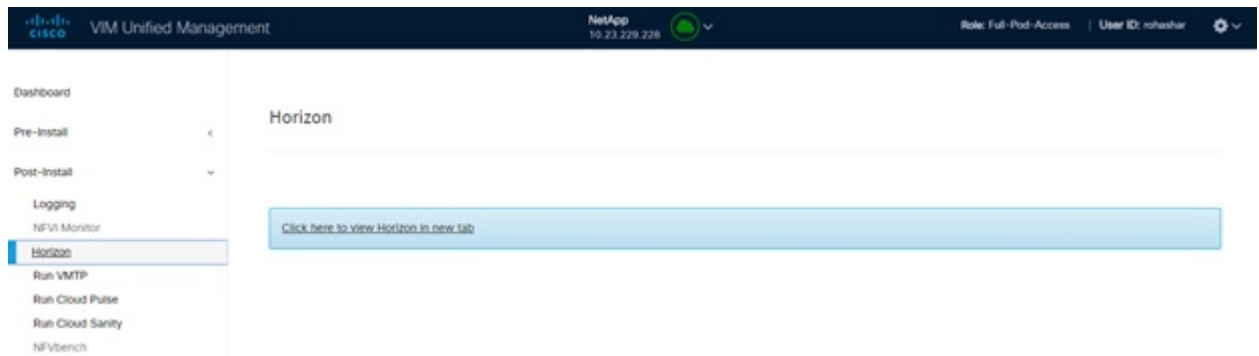
To cross launch Kibana, complete the following instructions:

- 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

CloudPulse

Cloudpulse Monitoring for : **Fixadent-BP**

cinder_endpoint

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

14 1 10 items per page

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

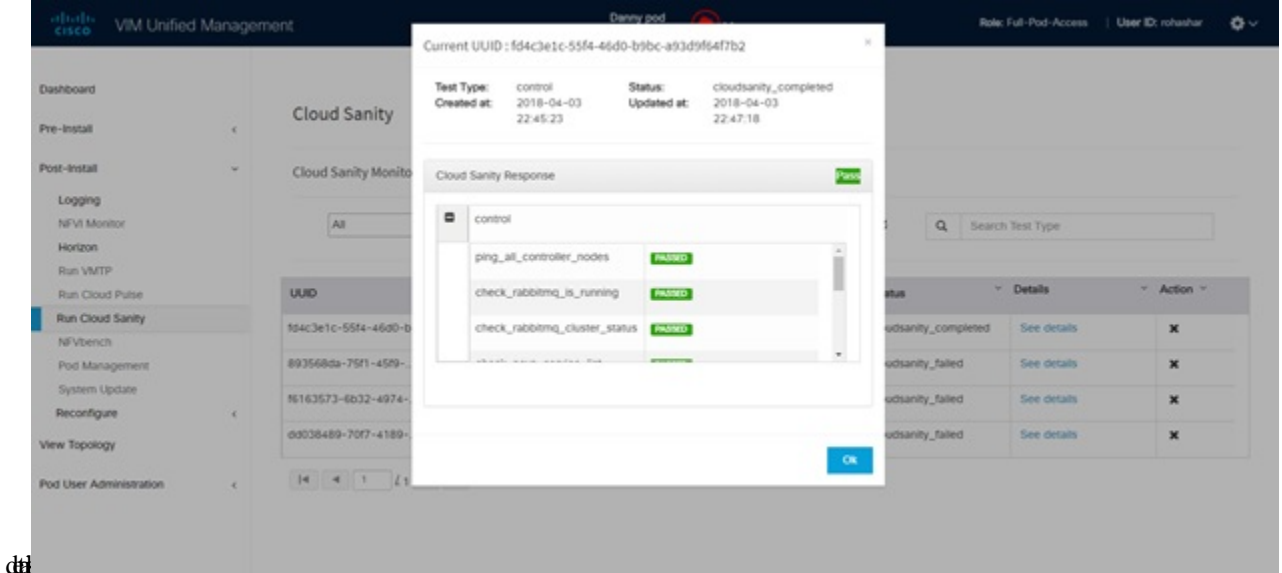
You can use the cloud sanity tool to test the Cisco NFVI pod and cloud infrastructure (host connectivity, basic mraidb, rabbit, ceph cluster check, and RAID disks).

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 interface is divided into a sidebar and a main configuration area.

Sidebar:

- Dashboard
- Pre-Install
- Post-Install
 - Logging
 - CVIM Monitor
 - NI-VI Monitor
 - Horizon
 - Run VMTP
 - Run Cloud Pulse
 - Run Cloud Sanity
 - NFVbench
 - Pod Management
 - System Update
 - CCP**
 - Reconfigure
 - View Topology
 - Pod User Administration

Main Configuration Area (CCP):

- Install / Status:** Tabs for 'Install' and 'Status'.
- Table 1:** Headers: Operation, Result, Status, Created, Updated, Log. Content: No Data Available.
- Note:** Please Update CCP Parameters and start Install.
- Network Type *** (dropdown), **KUBE Version *** (input).
- Public Network UUID *** (input), **Pod CIDR *** (input).
- CCP Flavor** (input).
- CCP Control *** (dropdown).
- Table 2:** Headers: Project Name, Username, Password, UI Password, Private Key, Public Key, Action. Content: No Data Available.
- CCP Installer Image *** (input).
- CCP Tenant Image *** (input).
- CCP Tenant** (dropdown).
- Table 3:** Headers: Project Name, Username, Password, Workers, Subnet CIDR, Action. Content: No Data Available.
- DNS Server *** (dropdown).
- Table 4:** Headers: Servers, Action. Content: No Data Available.
- Install** button.

©2019 Cisco and/or its affiliates. All rights reserved.

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.
