



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 99](#)

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:

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- Step 1** Log in to Cisco VIM Insight 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**.
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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.

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- 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 **Insight UI Application**.
All the fields present in the YAML file is uploaded to the respective fields in the UI.
 - Step 6** Provide a **Name for the Blueprint**.
While saving the blueprint name has to be unique.
 - Step 7** Click **Offline Validation**.

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

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

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

Activating a Blueprint in an Existing Pod with OpenStack Installed

Before you begin

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

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

Step 2 Click **Register Management Node**.

Step 3 Enter the following details:

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

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

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

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

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

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

Blueprint Management



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

The screenshot shows the Cisco VIM Unified Management interface. The top navigation bar includes the Cisco logo, 'VIM Unified Management', the user's name 'Calsoft', IP address '10.30.116.244', role 'Full-Pod-Access', and user ID 'rohshar'. A notification bar indicates 'Press F11 to exit full screen'. The left sidebar contains navigation options: Dashboard, Pre-Install, Blueprint Setup (with sub-option 'Blueprint Management' selected), Post-Install, View Topology, and Pod User Administration. The main content area is titled 'Blueprints Management' and features a table with columns: Blueprint Title, Modified Date, Status, and Action. The table contains four rows of 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]

Below the table is a pagination control showing '1' items per page.

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.

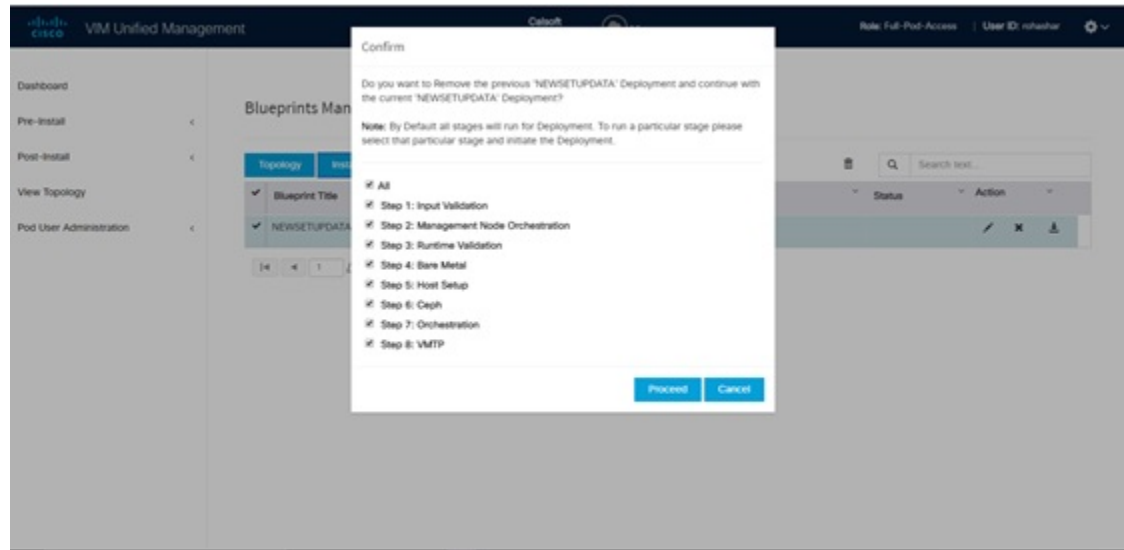
- Valid: Blueprint that is saved after offline validation success.
- Invalid: Blueprint that is saved after Offline Validation failure.
- Inprogress: Blueprint that is saved without running Offline Validation.
- Deployed: Blueprint that is used to bring up cloud without failures.
- Installing: Blueprint 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, then you can choose another Valid Blueprint but Insight asks you to remove the previous deployment before proceeding.
- If there is a Blueprint in Deployed state, then you can choose another Valid Blueprint but Insight 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.



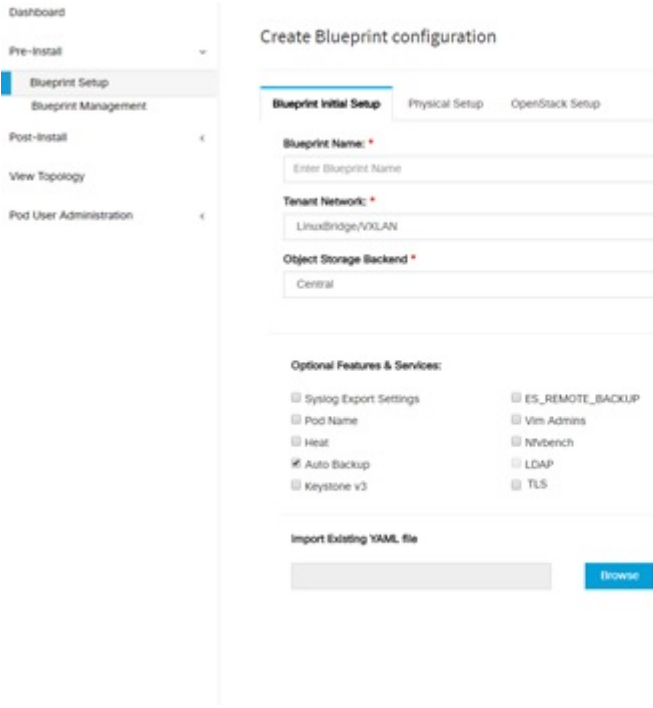
Note During the various operations across the application the cloud icon in the center of the header changes its color which is based on the following table.

Table 1:

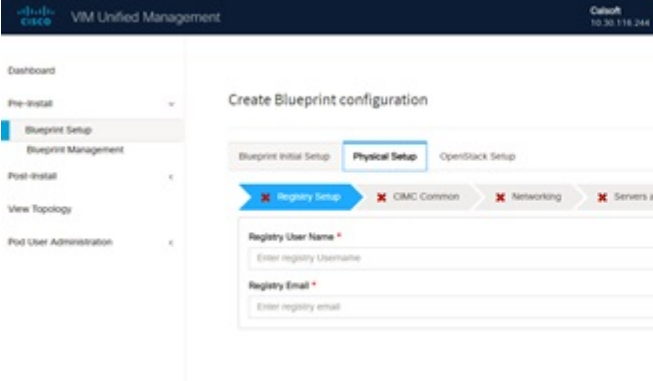
POD Operation	Status	Icon or Color
Management Node Registered, No Active Deployment	Pending	Gray
Cloud Up And Running, No Failure	Active	Green
Cloud Installation/ Any Operation In Progress	In-Progress	Blue
Cloudpulse Failed	Critical Warnings	Red
Pod Operation Failed	Warning	Amber
Software Update (Auto)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

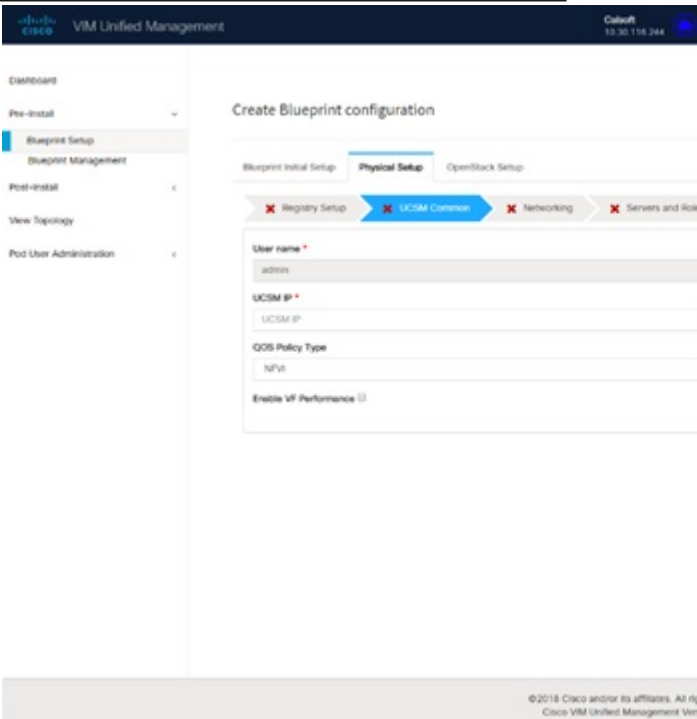
Creating a Blueprint for B-Series Server Platform

Procedure

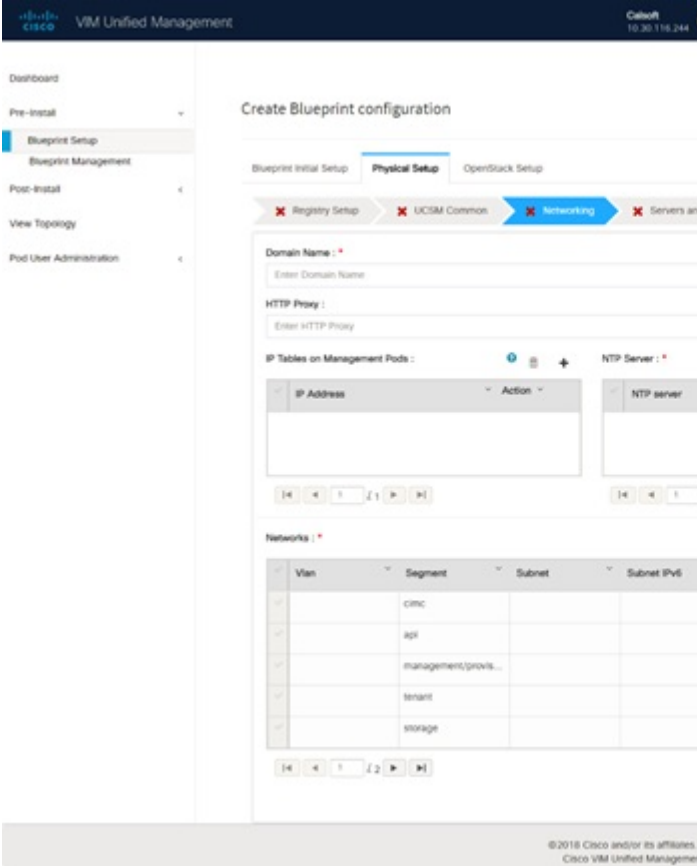
	Command or Action	Purpose						
Step 1	In the navigation pane, choose Pre-Install > Blueprint Setup .							
Step 2	To create a B Series Blueprint :	<p>1. On the Blueprint Initial Setup pane of the Cisco VIM Insight, complete the following fields:</p>  <table border="1" data-bbox="966 1312 1531 1747"> <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
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		<table border="1"> <tbody> <tr> <td data-bbox="854 327 1208 562"> Tenant Network drop-down list </td> <td data-bbox="1208 327 1494 562"> Choose one of the following tenant network types: <ul style="list-style-type: none"> • Linuxbridge/VXLAN • OVS/VLAN </td> </tr> </tbody> </table>	Tenant Network drop-down list	Choose one of the following tenant network types: <ul style="list-style-type: none"> • Linuxbridge/VXLAN • OVS/VLAN 	
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		<table border="1"> <tbody> <tr> <td data-bbox="854 562 1208 716"> Pod Type drop-down list </td> <td data-bbox="1208 562 1494 716"> Choose one of the following pod types: <ul style="list-style-type: none"> • Fullon(By Default) </td> </tr> </tbody> </table>	Pod Type drop-down list	Choose one of the following pod types: <ul style="list-style-type: none"> • Fullon(By Default) 	
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		<table border="1"> <tbody> <tr> <td data-bbox="893 325 1242 661"> Max VF Count text field </td> <td data-bbox="1242 325 1534 661"> 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. </td> </tr> </tbody> </table>	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.	
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		<table border="1"> <tbody> <tr> <td data-bbox="893 871 1242 1092"> MRAID-CARD optional checkbox </td> <td data-bbox="1242 871 1534 1092"> Enables JBOD mode to be set on disks. Applicable only if you have RAID controller configured on Storage C240 Rack servers. </td> </tr> </tbody> </table>	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.	
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	Command or Action	Purpose										
		<p>4. Click Networking to advance to the networking section of the Blueprint:</p>  <table border="1" data-bbox="927 1245 1487 1774"> <thead> <tr> <th>Name</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Domain Name field</td> <td>Enter the domain name (Mandatory).</td> </tr> <tr> <td>HTTP Proxy Server field</td> <td>If your configuration uses an HTTP proxy server, enter the IP address of the server.</td> </tr> <tr> <td>HTTPS Proxy Server field</td> <td>If your configuration uses an HTTPS proxy server, enter the IP address of the server.</td> </tr> <tr> <td>IP Tables on Management Pods</td> <td>Specifies the list of IP Address with Mask.</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.
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	Command or Action	Purpose	
		Name	Description
		NTP Server	Enter a maximum of four and minimum of one IPv4 and /or IPv6 addresses in the table.
		Domain Name Server	Enter a maximum of three and minimum of one IPv4 and/or IPv6 addresses.

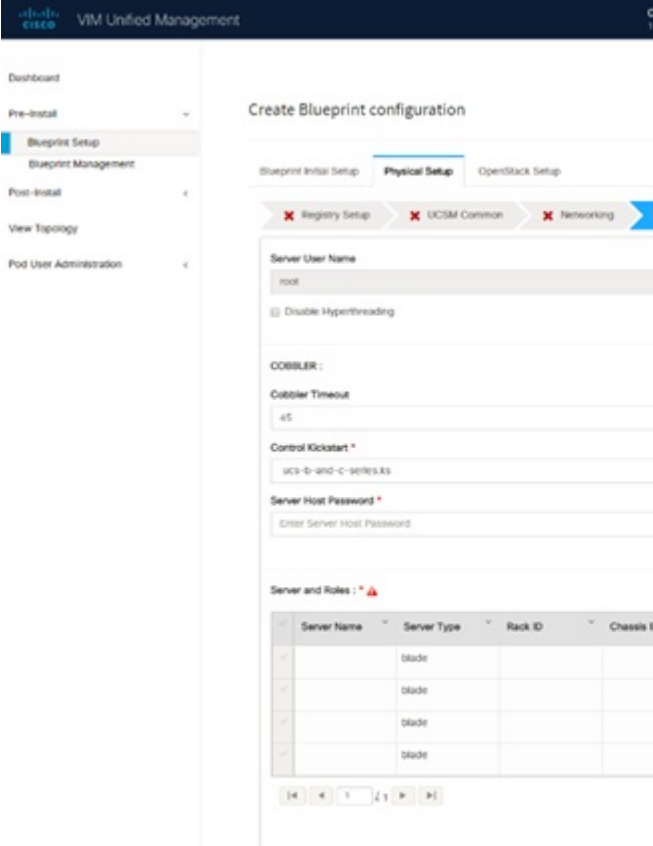
	Command or Action	Purpose	
		Name	Description
		Network table	

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			Name	Description
				ID value is always <i>none</i> .
			Segment drop-down list	You can select any one segment from the drop-down list. <ul style="list-style-type: none"> • API • 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	
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				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	

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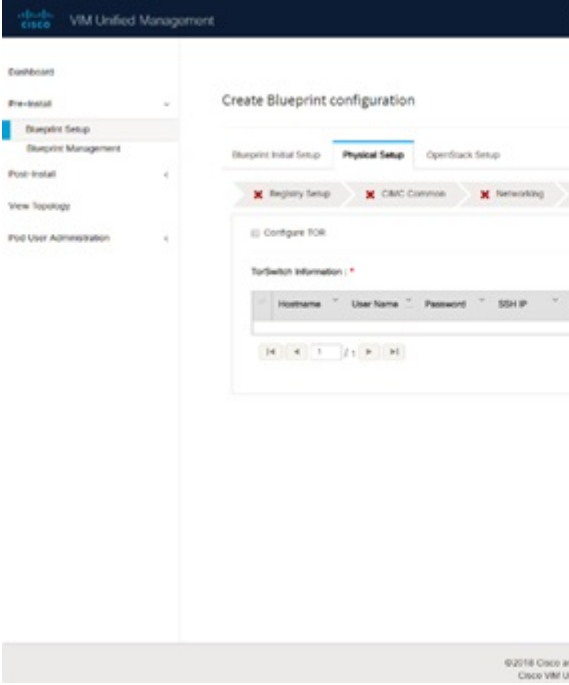
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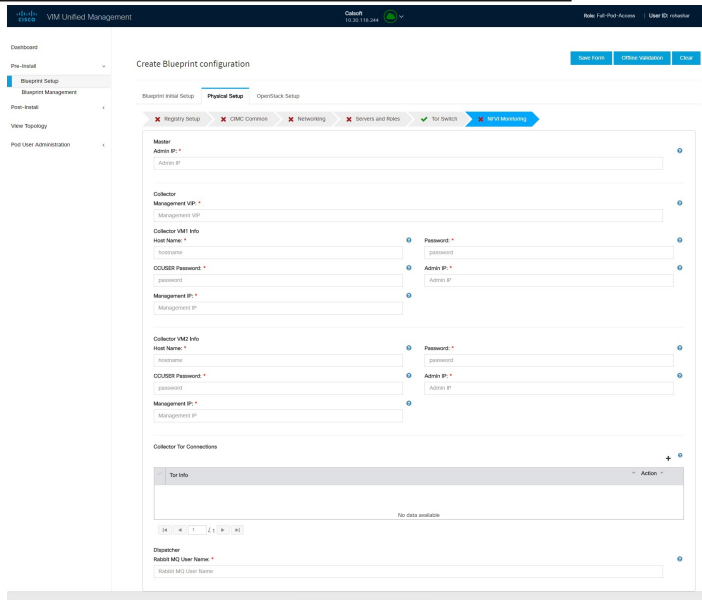
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		<p>but when all the fields are filled it is a part of the Blueprint.</p>  <table border="1" data-bbox="927 1062 1492 1232"> <thead> <tr> <th>Name</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Configure ToR optional checkbox.</td> <td>Enabling this checkbox, changes the configure ToR section from false to true.</td> </tr> </tbody> </table>	Name	Description	Configure ToR optional checkbox.	Enabling this checkbox, changes the configure ToR section from false to true.
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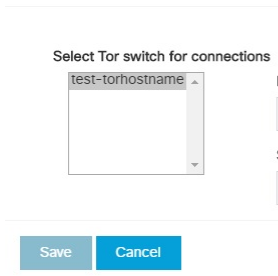
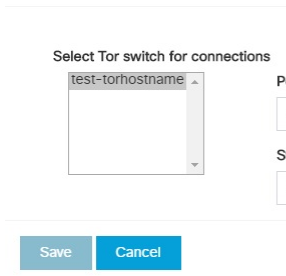
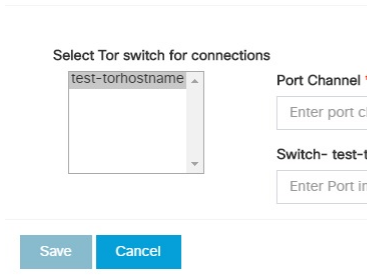
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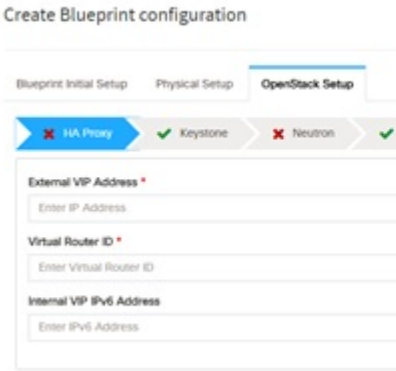
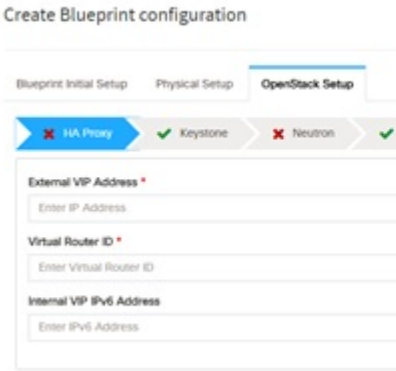
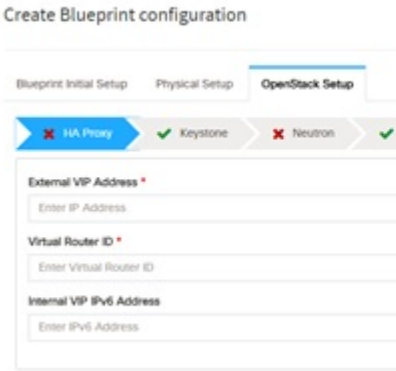
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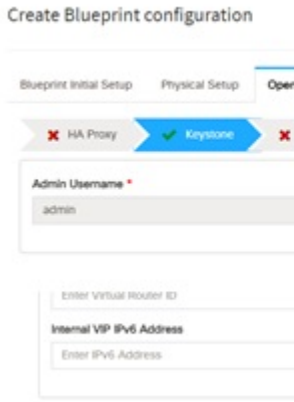
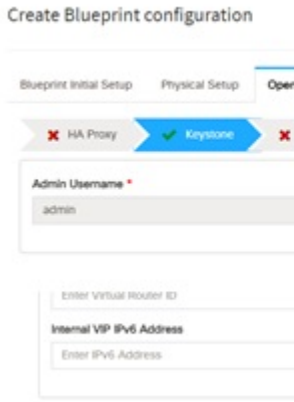
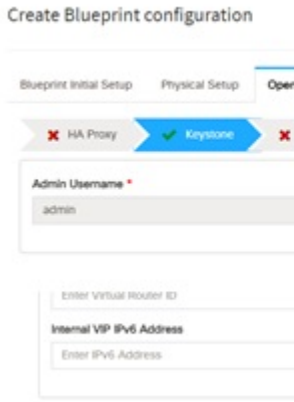
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- Click **NFVI Monitoring** checkbox in Blueprint Initial Setup to enable the NFVI Monitoring configuration tab.

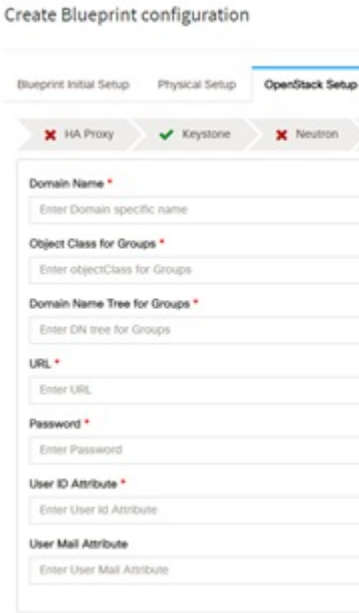
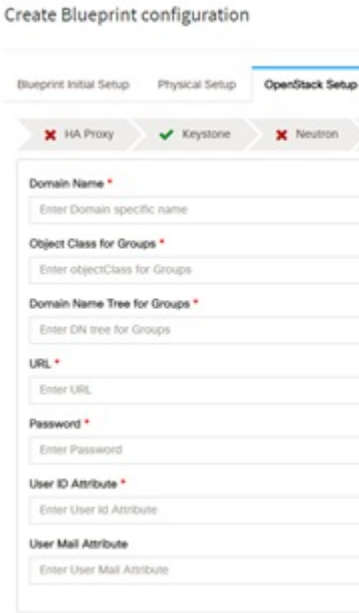
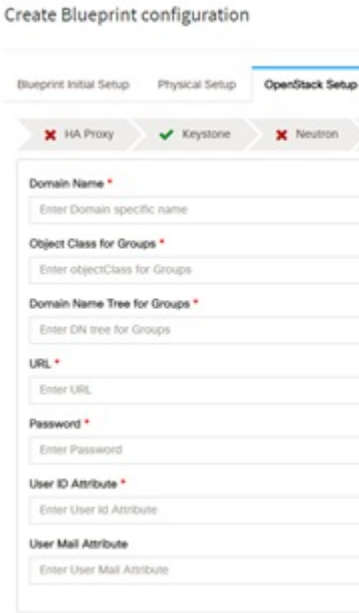
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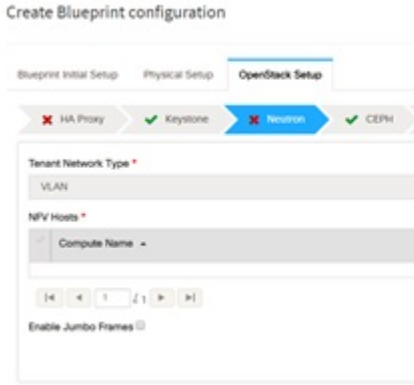
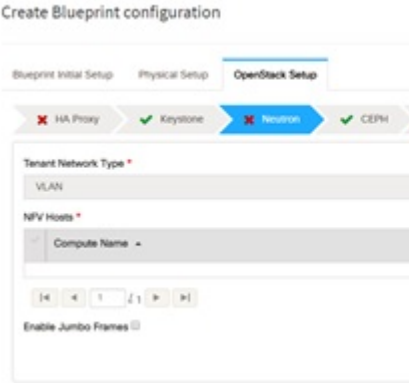
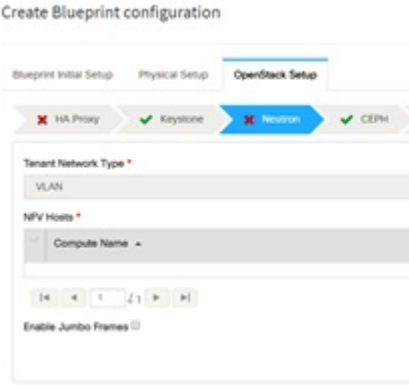
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Command or Action	Purpose	
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	LDAP (Only if Keystonev3 is enabled) Note This option is only available with Keystone v3	

	Command or Action	Purpose															
		<table border="1"> <thead> <tr> <th data-bbox="885 273 1226 325">Name</th> <th data-bbox="1226 273 1534 325">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="885 325 1226 1837"></td> <td data-bbox="1226 325 1534 1837"> <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="1226 1218 1380 1333">Domain Name field</td> <td data-bbox="1380 1218 1534 1333">Enter the Domain name.</td> </tr> <tr> <td data-bbox="1226 1333 1380 1459">Object Class for Users field</td> <td data-bbox="1380 1333 1534 1459">Enter a string as input.</td> </tr> <tr> <td data-bbox="1226 1459 1380 1585">Object Class for Groups field</td> <td data-bbox="1380 1459 1534 1585">Enter a string.</td> </tr> <tr> <td data-bbox="1226 1585 1380 1732">Domain Name Tree for Users field</td> <td data-bbox="1380 1585 1534 1732">Enter a string.</td> </tr> <tr> <td data-bbox="1226 1732 1380 1837">Domain Name Tree for Groups</td> <td data-bbox="1380 1732 1534 1837">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="1226 1218 1380 1333">Domain Name field</td> <td data-bbox="1380 1218 1534 1333">Enter the Domain name.</td> </tr> <tr> <td data-bbox="1226 1333 1380 1459">Object Class for Users field</td> <td data-bbox="1380 1333 1534 1459">Enter a string as input.</td> </tr> <tr> <td data-bbox="1226 1459 1380 1585">Object Class for Groups field</td> <td data-bbox="1380 1459 1534 1585">Enter a string.</td> </tr> <tr> <td data-bbox="1226 1585 1380 1732">Domain Name Tree for Users field</td> <td data-bbox="1380 1585 1534 1732">Enter a string.</td> </tr> <tr> <td data-bbox="1226 1732 1380 1837">Domain Name Tree for Groups</td> <td data-bbox="1380 1732 1534 1837">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																
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	Command or Action	Purpose			
		Name	Description		
			field		
			<table border="1"> <tr> <td data-bbox="1192 384 1344 506">Suffix for Domain Name field</td> <td data-bbox="1344 384 1494 506">Enter a string.</td> </tr> </table>	Suffix for Domain Name field	Enter a string.
Suffix for Domain Name field	Enter a string.				
			<table border="1"> <tr> <td data-bbox="1192 506 1344 657">URL field</td> <td data-bbox="1344 506 1494 657">Enter a URL with ending port number.</td> </tr> </table>	URL field	Enter a URL with ending port number.
URL field	Enter a URL with ending port number.				
			<table border="1"> <tr> <td data-bbox="1192 657 1344 808">Domain Name of bind user field</td> <td data-bbox="1344 657 1494 808">Enter a string.</td> </tr> </table>	Domain Name of bind user field	Enter a string.
Domain Name of bind user field	Enter a string.				
			<table border="1"> <tr> <td data-bbox="1192 808 1344 959">Password field</td> <td data-bbox="1344 808 1494 959">Enter Password as string format.</td> </tr> </table>	Password field	Enter Password as string format.
Password field	Enter Password as string format.				
			<table border="1"> <tr> <td data-bbox="1192 959 1344 1081">User Filter field</td> <td data-bbox="1344 959 1494 1081">Enter filter name as string.</td> </tr> </table>	User Filter field	Enter filter name as string.
User Filter field	Enter filter name as string.				
			<table border="1"> <tr> <td data-bbox="1192 1081 1344 1203">User ID Attribute field</td> <td data-bbox="1344 1081 1494 1203">Enter a string.</td> </tr> </table>	User ID Attribute field	Enter a string.
User ID Attribute field	Enter a string.				
			<table border="1"> <tr> <td data-bbox="1192 1203 1344 1325">User Name Attribute field</td> <td data-bbox="1344 1203 1494 1325">Enter a string.</td> </tr> </table>	User Name Attribute field	Enter a string.
User Name Attribute field	Enter a string.				
			<table border="1"> <tr> <td data-bbox="1192 1325 1344 1446">User Mail Attribute field</td> <td data-bbox="1344 1325 1494 1446">Enter a string.</td> </tr> </table>	User Mail Attribute field	Enter a string.
User Mail Attribute field	Enter a string.				
			<table border="1"> <tr> <td data-bbox="1192 1446 1344 1610">Group Name Attribute field</td> <td data-bbox="1344 1446 1494 1610">Enter a string.</td> </tr> </table>	Group Name Attribute field	Enter a string.
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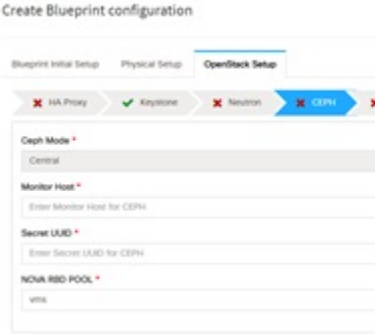
	Command or Action	Purpose	
		Name	Description
		Neutron	

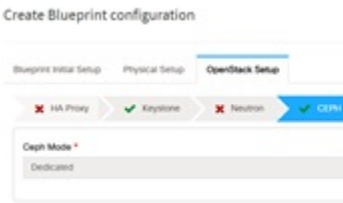
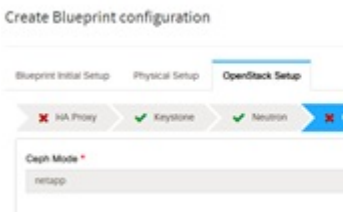
	Command or Action	Purpose										
		<table border="1"> <thead> <tr> <th data-bbox="927 275 1192 331">Name</th> <th data-bbox="1192 275 1492 331">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="927 331 1192 1003"></td> <td data-bbox="1192 331 1492 1003"> <p>Neutron fields change on the basis 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="1192 1003 1341 1350">Tenant Network Type field</td> <td data-bbox="1341 1003 1492 1350">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="1192 1350 1341 1696">Mechanism Drivers field</td> <td data-bbox="1341 1350 1492 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="1192 1696 1341 1862">NFV Hosts field</td> <td data-bbox="1341 1696 1492 1862">It is Auto-filled with the Compute you added</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
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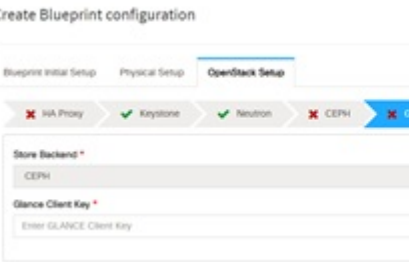
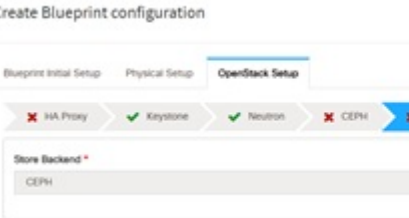
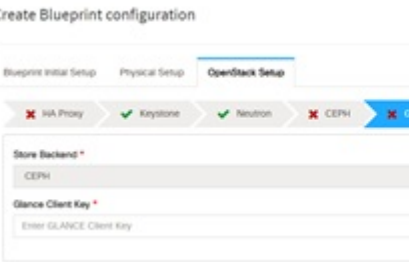
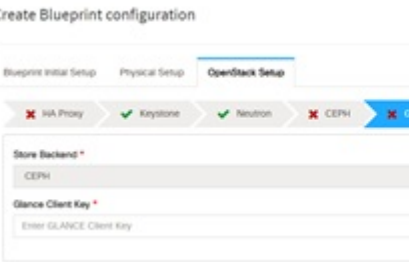
	Command or Action	Purpose	
		Name	Description
			<p>in Server and Roles.</p> <p>If you select All in this section NFV_HOSTS: ALL is added to the Blueprint or you can select one particular compute. For Example: NFV_HOSTS: compute-1, compute-2</p>
		<p>Tenant VLAN Ranges field</p>	<p>List of ranges separated by comma form start:end.</p>
		<p>Provider VLAN Ranges field</p>	<p>List of ranges separated by comma form start:end.</p>
		<p>VM High Page Size (available for NFV_HOSTS option) field</p>	<p>2M or 1G</p>
		<p>Enable Jumbo Frames field</p>	<p>Enable the checkbox.</p>

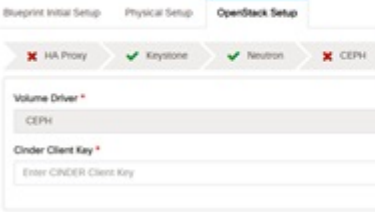
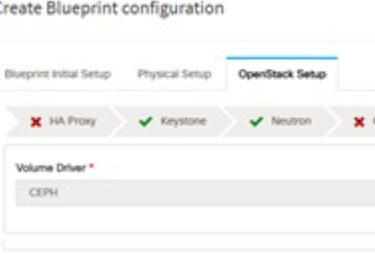
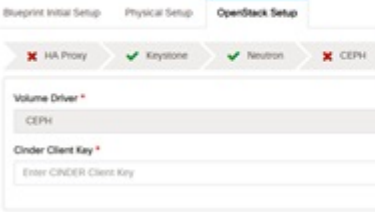
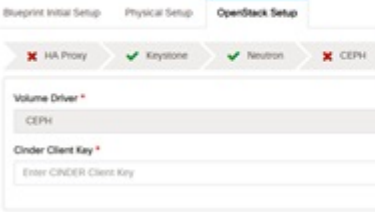
	Command or Action	Purpose	
		Name	Description
			For Tenant Network Type, Linux Bridge everything remains the same but Tenant VLAN Ranges is removed.

	Command or Action	Purpose	
		Name	Description
		CEPH	

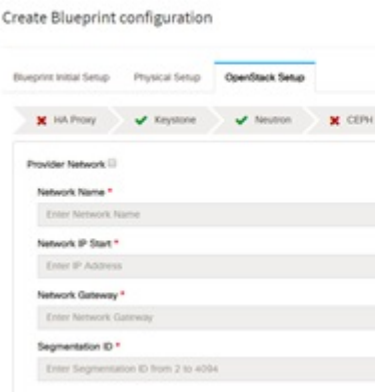
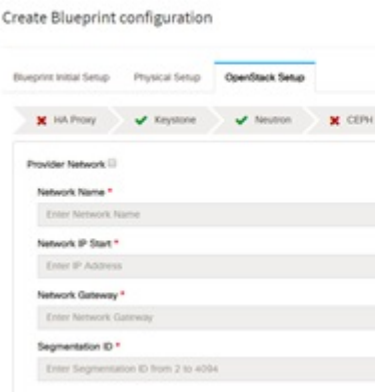
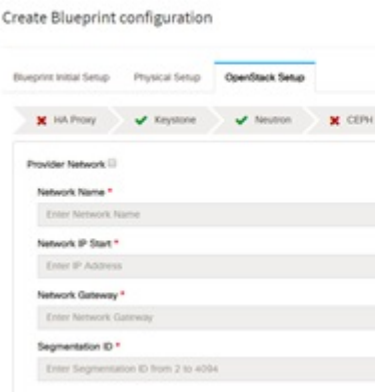
	Command or Action	Purpose															
		Name	Description														
			<p>1. 1. When Object Storage Backend is selected as <i>Central</i> in the blueprint initial setup.</p>  <table border="1" data-bbox="1247 898 1492 1839"> <tr> <td>CEPH Mode</td> <td>By default Ceph Mode is Central.</td> </tr> <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</td> <td>Enter the NOVA</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	Enter the NOVA
CEPH Mode	By default Ceph Mode is Central.																
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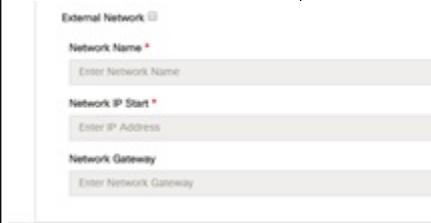
	Command or Action	Purpose					
		Name	Description				
			<table border="1"> <tr> <td data-bbox="1279 331 1377 449">POOL</td> <td data-bbox="1377 331 1534 449">RBD Pool (default's to vms)</td> </tr> <tr> <td data-bbox="1279 449 1377 695">CEPH NAT</td> <td data-bbox="1377 449 1534 695">CEPH NAT is required for Central Ceph and when mgmt network is not routable.</td> </tr> </table>	POOL	RBD Pool (default's to vms)	CEPH NAT	CEPH NAT is required for Central Ceph and when mgmt network is not routable.
POOL	RBD Pool (default's to vms)						
CEPH NAT	CEPH NAT is required for Central Ceph and when mgmt network is not routable.						
			<p>2. When Object Storage Backend is selected as <i>Dedicated</i> in the blueprint initial setup.</p>  <p>Create Blueprint configuration</p> <p>Blueprint Initial Setup Physical Setup OpenStack Setup</p> <p>HA Proxy X Keystone ✓ Neutron X CEPH ✓</p> <p>Ceph Mode + Dedicated</p> <ul style="list-style-type: none"> • CEPH Mode: By default Dedicated. • NOVA Boot: From drop-down selection you can choose CEPH or local. <p>3. When Object Storage Backend is selected as <i>NetApp</i> in the blueprint initial setup.</p>  <p>Create Blueprint configuration</p> <p>Blueprint Initial Setup Physical Setup OpenStack Setup</p> <p>HA Proxy X Keystone ✓ Neutron X CEPH ✓</p> <p>Ceph Mode + netapp</p>				

	Command or Action	Purpose										
		<table border="1"> <thead> <tr> <th data-bbox="927 275 1190 331">Name</th> <th data-bbox="1190 275 1492 331">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="927 331 1190 758">GLANCE</td> <td data-bbox="1190 331 1492 758"> <p>1. When Object Storage Backend is selected as <i>Central</i> in the blueprint initial setup.</p>  </td> </tr> <tr> <td data-bbox="1190 758 1344 867">Store Backend</td> <td data-bbox="1344 758 1492 867">By default CEPH.</td> </tr> <tr> <td data-bbox="1190 867 1344 976">Glance RBD Pool field</td> <td data-bbox="1344 867 1492 976">By default images.</td> </tr> <tr> <td data-bbox="1190 976 1344 1098">Glance Client Key</td> <td data-bbox="1344 976 1492 1098">Enter GLANCE Client Key</td> </tr> </tbody> </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>	Name	Description	GLANCE	<p>1. When Object Storage Backend is selected as <i>Central</i> in the blueprint initial setup.</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> 											
Store Backend	By default CEPH.											
Glance RBD Pool field	By default images.											
Glance Client Key	Enter GLANCE Client Key											

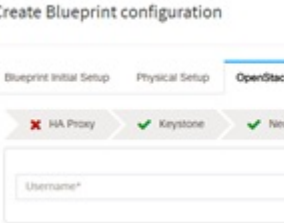
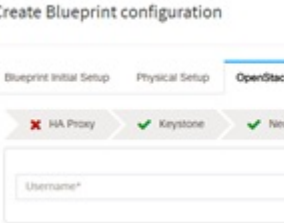
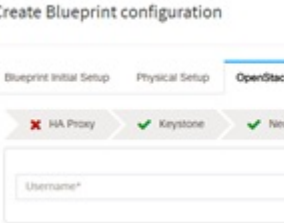
	Command or Action	Purpose										
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Name	Description											
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Volume Driver	By default CEPH.											
Cinder RBD Pool field	By default volumes.											
Cinder Client Key	Enter Cinder Client Key											

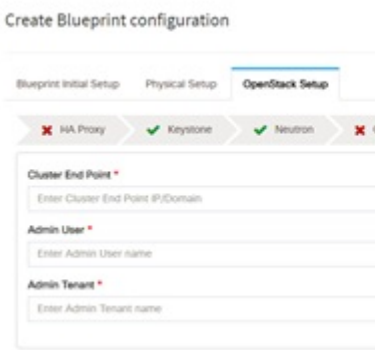
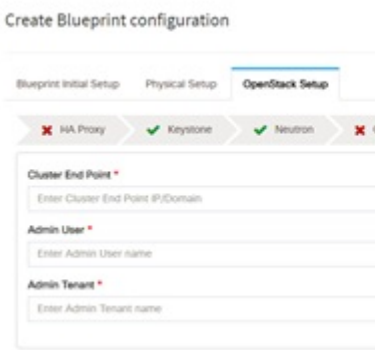
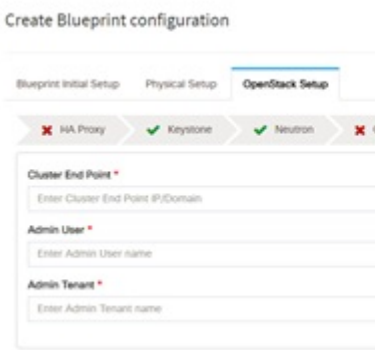
	Command or Action	Purpose	
		Name	Description
		VMTP VMTP optional section will only be visible once VMTP is selected from Blueprint Initial Setup.	

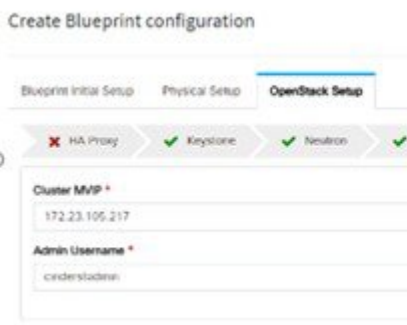
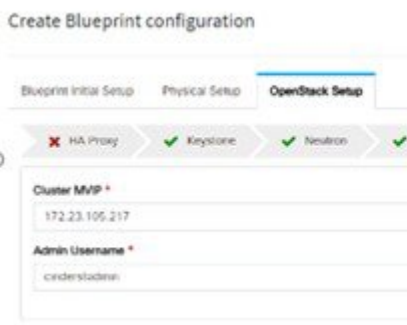
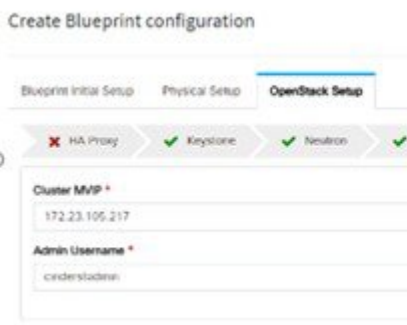
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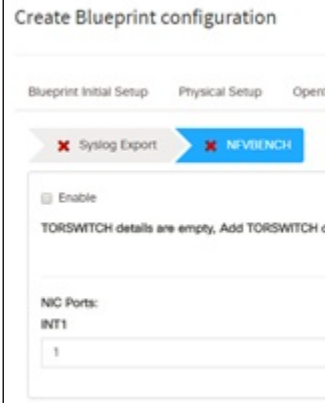
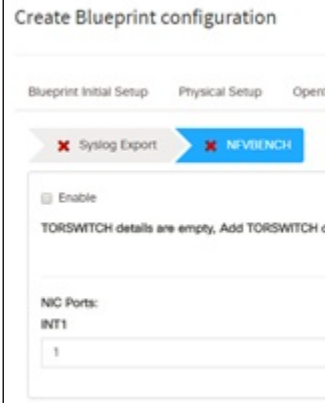
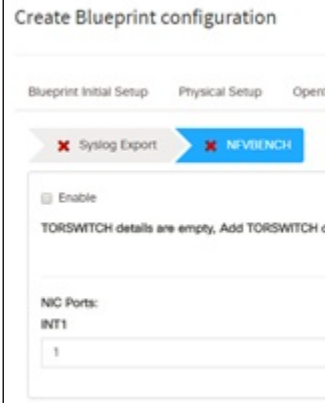
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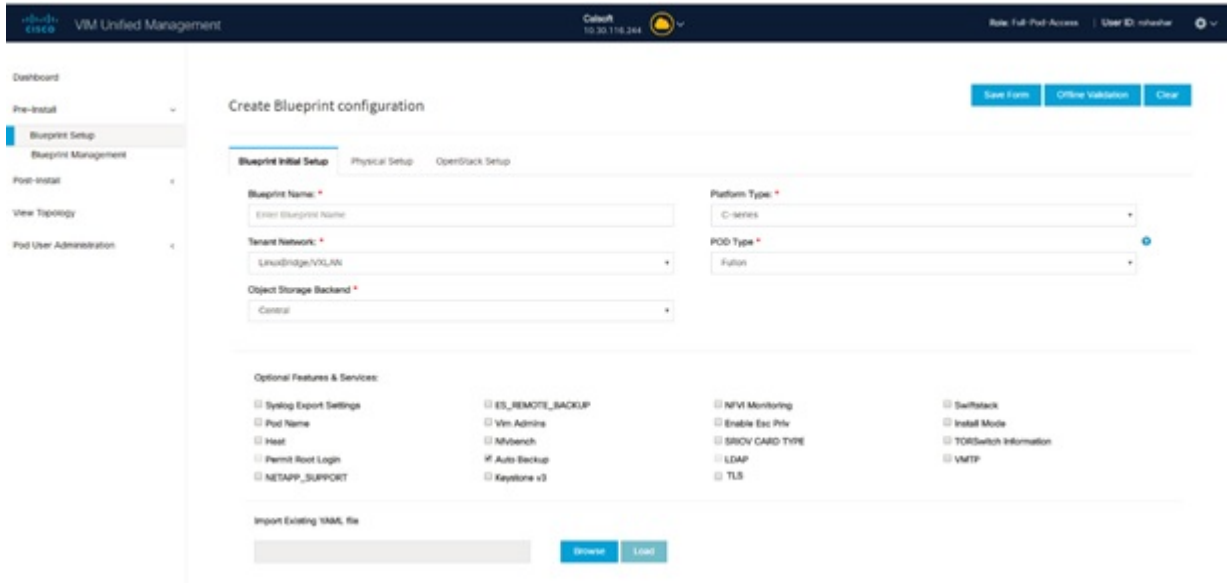
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ENABLE_ESC_PRIV	Enable the checkbox to set it as True. By default it is <i>False</i> .						

Creating a Blueprint for C-Series Server Platform

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

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

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

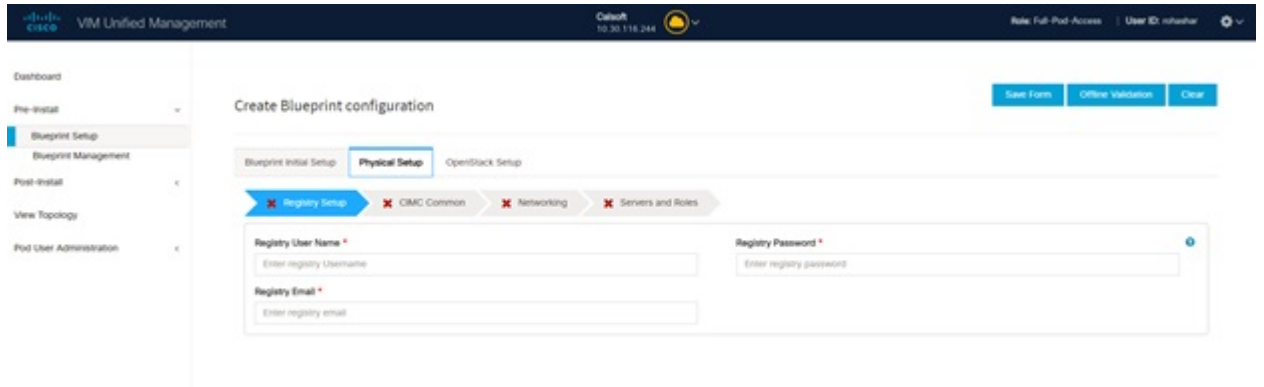


Name	Description
Blueprint Name field.	Enter the name for the blueprint configuration.
Platform Type drop-down list	Choose one of the following platform types: <ul style="list-style-type: none"> • B-Series (By default) • C-Series (Select C Series)

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 (By Default) • Central. Central is not supported in Production
Optional and Services Features checkbox	<p>Swiftstack, LDAP, Syslog Export Settings, Install Mode, TorSwitch Information, TLS, NFVMON, Pod Name, VMTP, NFVBench, Autbackup, Heat, Keystone v3, Enable Esc Priv.</p> <p>If any one is selected, the corresponding section is visible in various Blueprint sections.</p> <p>By default all features are disabled except Auto Backup.</p>

Name	Description
Import Existing YAML file	If you have an existing C Series YAML file you can use this feature to upload the file. Insight will automatically fill in the fields and any missed mandatory field will be highlighted in the respective section.

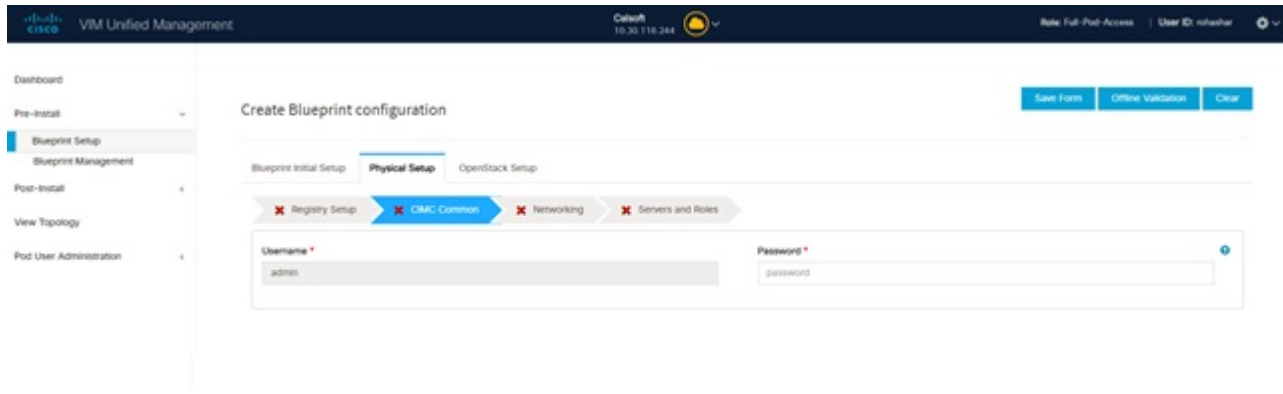
- Click **Physical Setup** to advance to the **Registry Setup** configuration page. Fill in the following details for Registry Setup:



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.

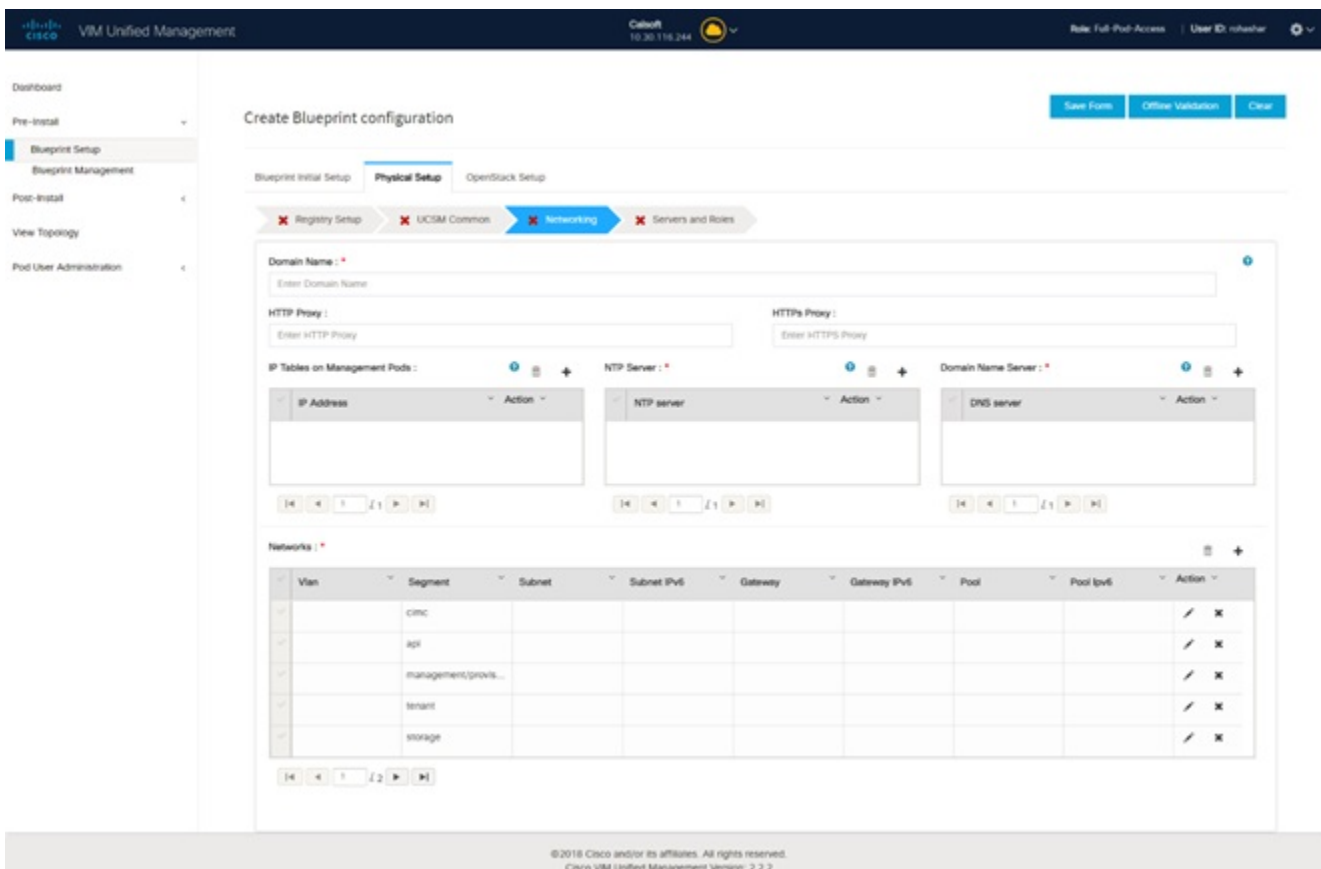
- Click **CIMC Common Tab** and complete the following fields:



Name	Description
User Name disabled field	By default value is Admin.

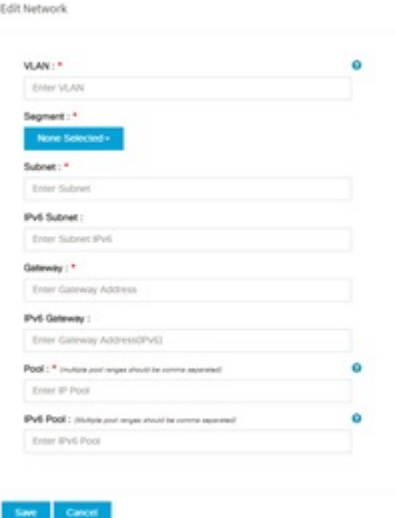
Password text field	Enter Password for UCSM Common (Mandatory).
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4. Click **Networking** to advance to the networking section of the Blueprint.



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

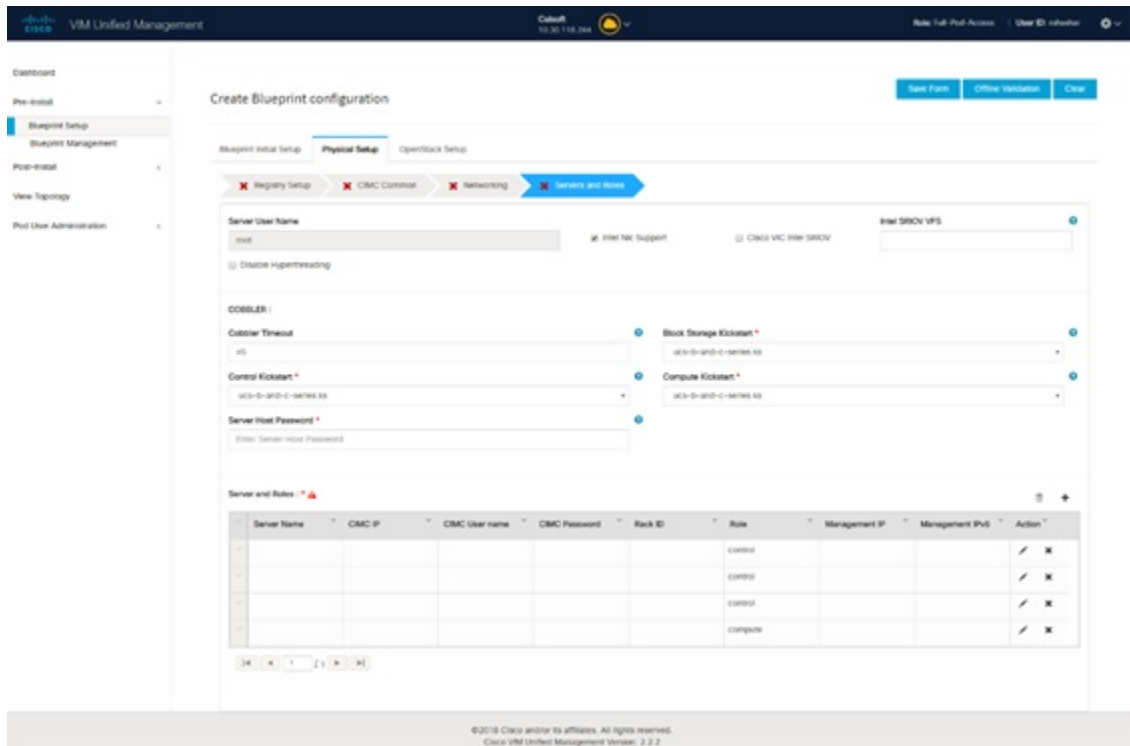
Name	Description
Networks table	

Name	Description		
	<p>Network table is pre-populated with Segments. To add Networks you can either clear all the table with Delete all or click edit icon for each segment and fill in the details.</p> <p>You can add, edit, or delete network information in the table.</p>  <ul style="list-style-type: none"> • Click Add (+) to add new entries (networks) to the table. • Specify the following fields in the Edit Entry to Networks dialog: 		
<table border="1"> <thead> <tr> <th data-bbox="894 1262 1192 1310">Name</th> <th data-bbox="1192 1262 1487 1310">Description</th> </tr> </thead> </table>	Name	Description	
Name	Description		
<table border="1"> <tbody> <tr> <td data-bbox="894 1310 1192 1478">VLAN field</td> <td data-bbox="1192 1310 1487 1478">Enter the VLAN ID. For Segment - Provider, the VLAN ID value is 'none'.</td> </tr> </tbody> </table>	VLAN field	Enter the VLAN ID . For Segment - Provider, the VLAN ID value is 'none'.	
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Segment drop-down list	When you add/edit new segment then following segments types are available in the form of dropdown list and you can select only one. <ul style="list-style-type: none"> • API • Management/provision • Tenant 		

Name	Description	
		<ul style="list-style-type: none"> • Storage • External • Provider • ACIINFRA <p>Note Acinfra 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	

Name	Description
	Enter the pool information in the required format. For example: 101.15-101.1.10,102.15-102.1.10
	Click Save .

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



Note If you choose mechanism driver as OVS or ACI, VM_HUGEPAGE_PERCENTAGE field column is available for compute nodes, where you can fill values from 0 to 100%, when NFV_HOSTS: ALL is chosen.

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="906 527 1437 1323"> <p>Server And Roles</p> <p>The screenshot shows a form titled 'Server And Roles' with the following fields: <ul style="list-style-type: none"> Server Name *: Text input with placeholder 'Enter Server Name' and a help icon. VIC Slot: Text input with placeholder 'Enter VIC Slot'. CIMC IP *: Text input with placeholder 'Enter CIMC IP Address' and a help icon. CIMC User Name: Text input with placeholder 'Enter CIMC Username'. CIMC Password: Text input with placeholder 'Enter CIMC Password' and a help icon. Rack ID *: Text input with placeholder 'Enter Rack ID' and a help icon. Role *: A dropdown menu. Management IP: Text input with placeholder 'Enter Management IP Address' and a help icon. Management IPv6: Text input with placeholder 'Enter Management IPv6 Address' and a help icon. At the bottom of the form are 'Save' and 'Cancel' buttons. </p> </div> <table border="1"> <tbody> <tr> <td data-bbox="906 1354 1214 1396">Server Name</td> <td data-bbox="1214 1354 1534 1396">Entry the name of the server.</td> </tr> <tr> <td data-bbox="906 1407 1214 1449">Rack ID field</td> <td data-bbox="1214 1407 1534 1449">The rack ID for the server.</td> </tr> <tr> <td data-bbox="906 1459 1214 1501">VIC Slot field</td> <td data-bbox="1214 1459 1534 1501">Enter a VIC Slot.</td> </tr> <tr> <td data-bbox="906 1512 1214 1554">CIMC IP field</td> <td data-bbox="1214 1512 1534 1554">Enter a IP address.</td> </tr> <tr> <td data-bbox="906 1564 1214 1606">CIMC Username field</td> <td data-bbox="1214 1564 1534 1606">Enter a Username.</td> </tr> <tr> <td data-bbox="906 1617 1214 1659">CIMC Password field</td> <td data-bbox="1214 1617 1534 1659">Enter a Password for CIMC.</td> </tr> <tr> <td data-bbox="906 1669 1214 1795">Select the Role from the drop down list</td> <td data-bbox="1214 1669 1534 1795">Choose Control or Compute or Block Storage from the drop-down list.</td> </tr> <tr> <td data-bbox="906 1806 1214 1848">Management IP</td> <td data-bbox="1214 1806 1534 1848">It is an optional field but if</td> </tr> </tbody> </table>	Server Name	Entry the name of the server.	Rack ID field	The rack ID for the server.	VIC Slot field	Enter a VIC Slot.	CIMC IP field	Enter a IP address.	CIMC Username field	Enter a Username.	CIMC Password field	Enter a Password for CIMC.	Select the Role from the drop down list	Choose Control or Compute or Block Storage from the drop-down list.	Management IP	It is an optional field but if
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Select the Role from the drop down list	Choose Control or Compute or Block Storage from the drop-down list.																
Management IP	It is an optional field but if																

Name	Description	
		provided for one Server then it is mandatory to provide it for other Servers as well.
	Management IPv6	Routable and valid IPv6 address. It is an optional field but if provided for one server then it is mandatory for all other servers as well.
Click Save or Add .	On clicking Save or Add all information related to Servers and Roles gets saved.	
If Configure ToR checkbox is True with at-least one switch detail, these fields will be displayed for each server and this is similar to DP Tor: Port Channel and Switch Name (Mandatory if Configure ToR is true)	<ul style="list-style-type: none"> • Port Channel field • Switch Name field • Switch Port Info field 	<ul style="list-style-type: none"> • Enter the port channel input. • Enter the switch name. • Enter the switch port information.
DP ToR (Only for Control and Compute) : Mandatory if Intel NIC and Configure TOR is True.	<ul style="list-style-type: none"> • Port Channel field • Switch Name field • Switch Port Info field 	<ul style="list-style-type: none"> • Enter the port channel input. • Enter the switch name. • Enter the switch port information.
SRIOV TOR INFO (Only for Compute Nodes). It is mandatory in server and roles if Intel NIC and Configure TOR is True. with TOR TYPE Nexus. For TOR TYPE NCS-5500 these fields are optional Switch Name (Mandatory if Configure ToR is true) . This field appears only when Intel NIC support is true, as Auto TOR config is not supported in VIC_NIC combo	<ul style="list-style-type: none"> • Switch Name field • Switch Port Info field 	<ul style="list-style-type: none"> • Enter the switch name. • Enter the switch port information.
Intel SRIOV VFS (valid for Intel NIC testbeds) and can be integer.	For SRIOV support for Intel NIC. By Default, SRIOV support is disabled. To enable, define a value in the range # * 1-32 when INTEL_NIC_SUPPORT is set True (X710 Max VFs = 32) # * 1-63 when CISCO_VIC_INTEL_SRIOV is set True (X520 Max VFs = 63)	
INTEL_SRIOV_PHYS_PORTS (valid for Intel NIC test beds) and can be of value 2 or 4 (default is 2)	In some cases the # of Physical SRIOV port needed is 4; to meet that requirement, define the following: # this is optional, if nothing is defined code will assume it to be 2; the only 2 integer values this parameter # takes is 2 or 4 and is true when INTEL_NIC_SUPPORT is True and INTEL_SRIOV_VFS is valid.. For NCS-5500 this value is set to 4 and is non-editable.	

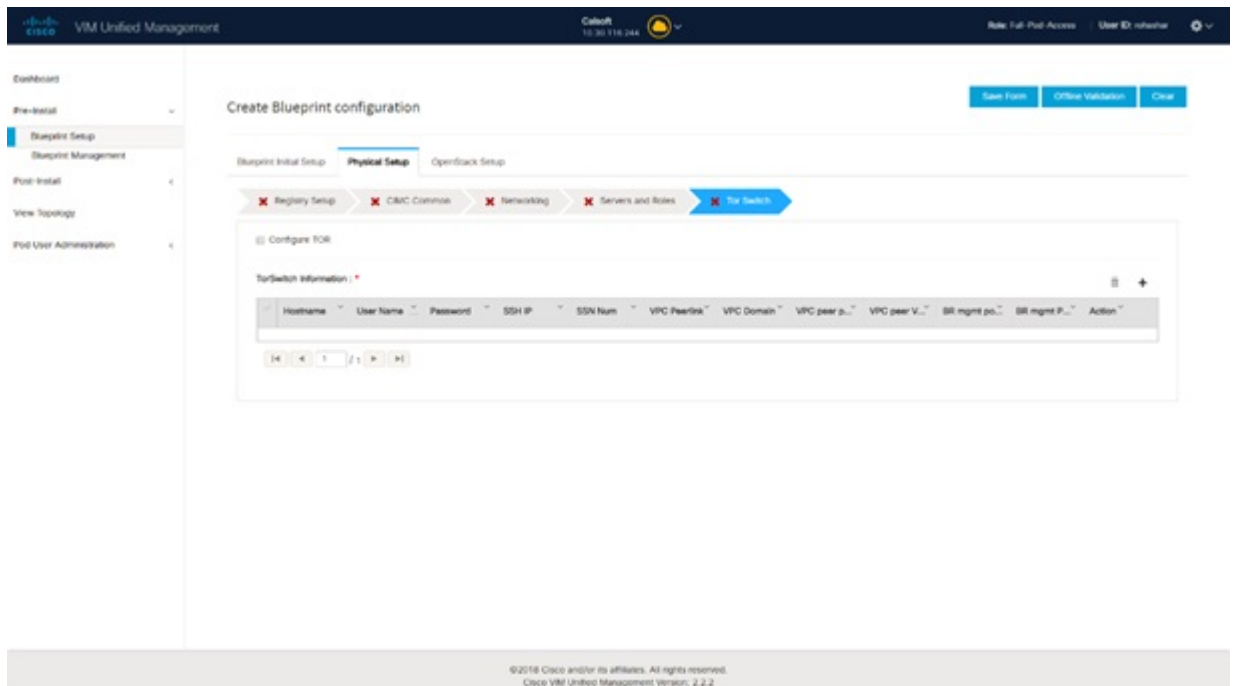
Name	Description
Click Save or Add .	If all mandatory fields are filled click Save or Add to add information on Servers and Roles.
Disable Hyperthreading	Default value is false. You can set it as true or false.
Click Save	

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

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

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

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



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

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

Name	Description														
	<p>Click (+) to add information for ToR Switch.</p> <p>Switch Details</p> <div style="border: 1px solid #ccc; padding: 10px;"> <p>Hostname * ⓘ</p> <input type="text" value="Enter Switch Hostname"/> <p>Username * ⓘ</p> <input type="text" value="Enter Switch Username"/> <p>Password * ⓘ</p> <input type="text" value="Enter Password"/> <p>SSH-IP * ⓘ</p> <input type="text" value="Enter IP Address"/> <p>SSN Num ⓘ</p> <input type="text" value="Enter SSN Num"/> <p>VPC Peer Keepalive ⓘ</p> <input type="text" value="Enter IP Address"/> <p>VPC Domain ⓘ</p> <input type="text" value="Enter VPC Domain"/> <p>VPC Peer Port Info ⓘ</p> <input type="text" value="Enter VPC Port"/> <p>VPC Peer VLAN Info ⓘ</p> <input type="text" value="Enter VPC VLAN Info"/> <p>BR Management Port Info ⓘ</p> <input type="text" value="Enter BR Port Info"/> <p>BR Management PO Info ⓘ</p> <input type="text" value="Enter BR PO Info"/> <p style="text-align: right;"> <input type="button" value="Save"/> <input type="button" value="Cancel"/> </p> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th data-bbox="846 1373 1187 1428">Name</th> <th data-bbox="1187 1373 1515 1428">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="846 1428 1187 1482">Name</td> <td data-bbox="1187 1428 1515 1482">ToR switch name.</td> </tr> <tr> <td data-bbox="846 1482 1187 1537">Username</td> <td data-bbox="1187 1482 1515 1537">ToR switch username.</td> </tr> <tr> <td data-bbox="846 1537 1187 1591">Password</td> <td data-bbox="1187 1537 1515 1591">ToR switch password.</td> </tr> <tr> <td data-bbox="846 1591 1187 1646">SSH IP</td> <td data-bbox="1187 1591 1515 1646">ToR switch SSH IP.</td> </tr> <tr> <td data-bbox="846 1646 1187 1701">SSN Num</td> <td data-bbox="1187 1646 1515 1701">ToR switch ssn num.</td> </tr> <tr> <td data-bbox="846 1701 1187 1841">VPC Peer Keepalive</td> <td data-bbox="1187 1701 1515 1841">Peer Management IP. You cannot define if there is no peer.</td> </tr> </tbody> </table>	Name	Description	Name	ToR switch name.	Username	ToR switch username.	Password	ToR switch password.	SSH IP	ToR switch SSH IP.	SSN Num	ToR switch ssn num.	VPC Peer Keepalive	Peer Management IP. You cannot define if there is no peer.
Name	Description														
Name	ToR switch name.														
Username	ToR switch username.														
Password	ToR switch password.														
SSH IP	ToR switch SSH IP.														
SSN Num	ToR switch ssn num.														
VPC Peer Keepalive	Peer Management IP. You cannot define if there is no peer.														

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

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

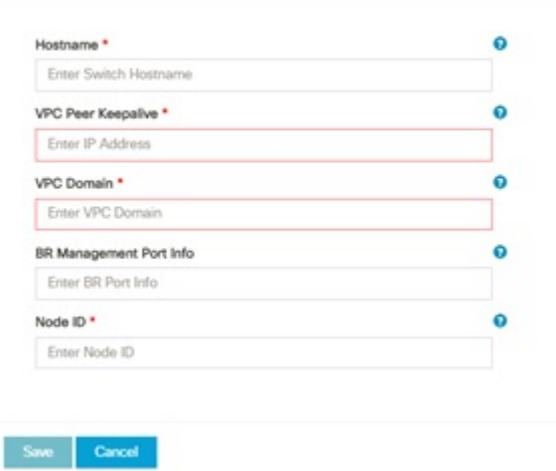
Name	Description	
<p>Configure ToR optional checkbox.</p> <p>Note If UMHC is selected as podtype, configure TOR is not allowed.</p>	<p>Enabling this checkbox, changes the configure ToR section from false to true.</p> <p>Note Configure tor is true then ToR switch info maps in servers</p>	

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="password" value="Enter Password"/> <p>SSH-IP * ⓘ</p> <input type="text" value="Enter IP Address"/> <p>SSN Num ⓘ</p> <input type="text" value="Enter SSN Num"/> <p>VPC Peer Keepalive ⓘ</p> <input type="text" value="Enter IP Address"/> <p>VPC Domain ⓘ</p> <input type="text" value="Enter VPC Domain"/> <p>VPC Peer Port Info ⓘ</p> <input type="text" value="Enter VPC Port"/> <p>VPC Peer VLAN Info ⓘ</p> <input type="text" value="Enter VPC VLAN Info"/> <p>BR Management Port Info ⓘ</p> <input type="text" value="Enter BR Port Info"/> <p>BR Management PO Info ⓘ</p> <input type="text" value="Enter BR PO Info"/> <p style="text-align: right;"> <input type="button" value="Save"/> <input type="button" value="Cancel"/> </p> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th data-bbox="797 1373 1146 1430">Name</th> <th data-bbox="1146 1373 1489 1430">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="797 1430 1146 1486">Name</td> <td data-bbox="1146 1430 1489 1486">ToR switch name.</td> </tr> <tr> <td data-bbox="797 1486 1146 1543">Username</td> <td data-bbox="1146 1486 1489 1543">ToR switch username.</td> </tr> <tr> <td data-bbox="797 1543 1146 1600">Password</td> <td data-bbox="1146 1543 1489 1600">ToR switch password.</td> </tr> <tr> <td data-bbox="797 1600 1146 1656">SSH IP</td> <td data-bbox="1146 1600 1489 1656">ToR switch SSH IP.</td> </tr> <tr> <td data-bbox="797 1656 1146 1713">SSN Num</td> <td data-bbox="1146 1656 1489 1713">ToR switch ssn num.</td> </tr> <tr> <td data-bbox="797 1713 1146 1843">VPC Peer Keepalive</td> <td data-bbox="1146 1713 1489 1843">Peer Management IP. You cannot define if there is no peer.</td> </tr> </tbody> </table>	Name	Description	Name	ToR switch name.	Username	ToR switch username.	Password	ToR switch password.	SSH IP	ToR switch SSH IP.	SSN Num	ToR switch ssn num.	VPC Peer Keepalive	Peer Management IP. You cannot define if there is no peer.
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	VPC Domain	Cannot define if there is no peer.
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	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="894 911 1484 1320"> <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.
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VPC Domain	Enter an integer.										
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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.	

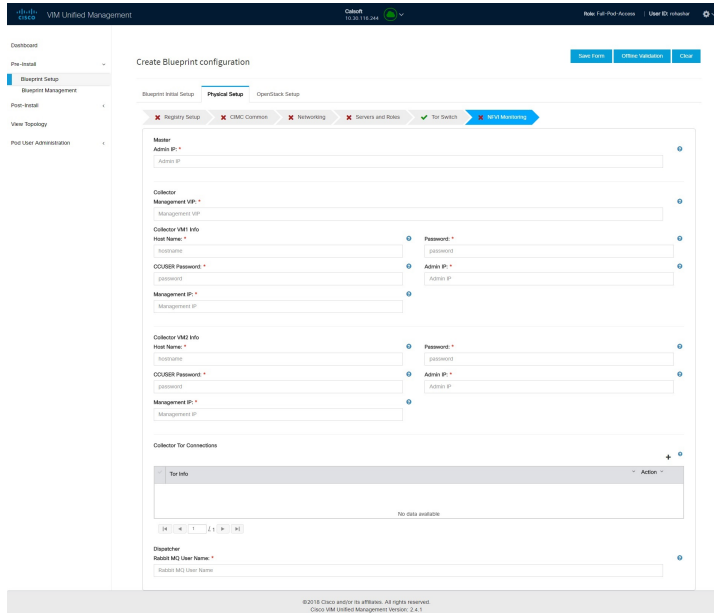
Name	Description
	<p>Click (+) to add information for NCS-500 Switch.</p> <p>Switch Details</p> <div style="border: 1px solid #ccc; padding: 10px;"> <p>Hostname * +</p> <input type="text" value="Enter Switch Hostname"/> <p>Username * +</p> <input type="text" value="Enter Switch Username"/> <p>Password * +</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																	
	<table border="1"> <thead> <tr> <th data-bbox="933 294 1222 342">Name</th> <th data-bbox="1232 294 1526 342">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="933 348 1222 464"> BR Management PO Info </td> <td data-bbox="1232 348 1526 464">Port channel number for management interface of build node.</td> </tr> <tr> <td data-bbox="933 470 1222 585"> BR Management VLAN info </td> <td data-bbox="1232 470 1526 585">VLAN id for management interface of build node (access).</td> </tr> <tr> <td data-bbox="933 592 1222 667"> VPC Peer Port Info </td> <td data-bbox="1232 592 1526 667">Interface for vpc peer ports.</td> </tr> <tr> <td data-bbox="933 674 1222 728"> VPC Peer Port Address </td> <td data-bbox="1232 674 1526 728">Address for ISIS exchange.</td> </tr> <tr> <td data-bbox="933 735 1222 810"> ISIS Loopback Interface address </td> <td data-bbox="1232 735 1526 810">ISIS loopback IP Address.</td> </tr> <tr> <td data-bbox="933 816 1222 871"> ISIS net entity title </td> <td data-bbox="1232 816 1526 871">Enter a String.</td> </tr> <tr> <td data-bbox="933 877 1222 953"> ISIS prefix SID </td> <td data-bbox="1232 877 1526 953">Integer between 16000 to 1048575.</td> </tr> </tbody> </table>	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.	
	Name	Description																
	BR Management PO Info	Port channel number for management interface of build node.																
	BR Management VLAN info	VLAN id for management interface of build node (access).																
	VPC Peer Port Info	Interface for vpc peer ports.																
	VPC Peer Port Address	Address for ISIS exchange.																
	ISIS Loopback Interface address	ISIS loopback IP Address.																
	ISIS net entity title	Enter a String.																
ISIS prefix SID	Integer between 16000 to 1048575.																	

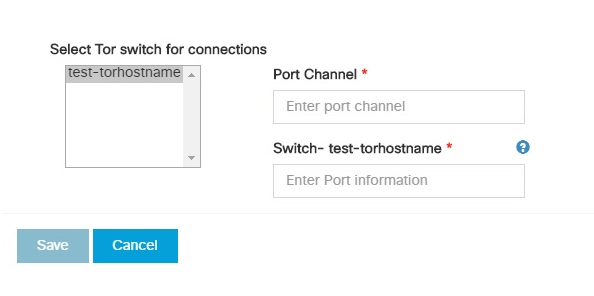
When TOR-TYPE selected as NCS-5500 and 2 NCS-5500 are configured it is mandatory to configure MULTI_SEGMENT_ROUTING_INFO

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

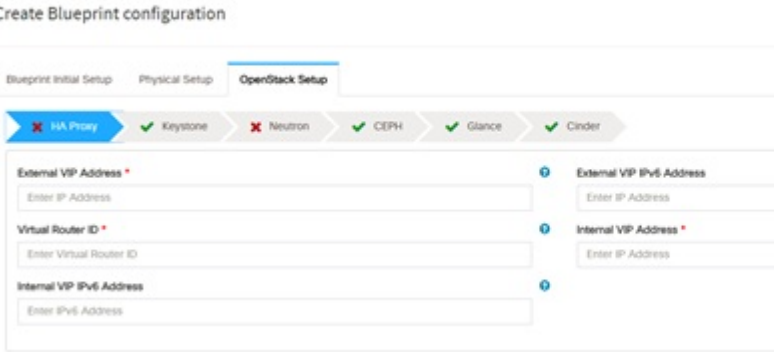

7. Click **NFVI Monitoring** checkbox in Blueprint Initial Setup to enable the NFVI Monitoring configuration tab.



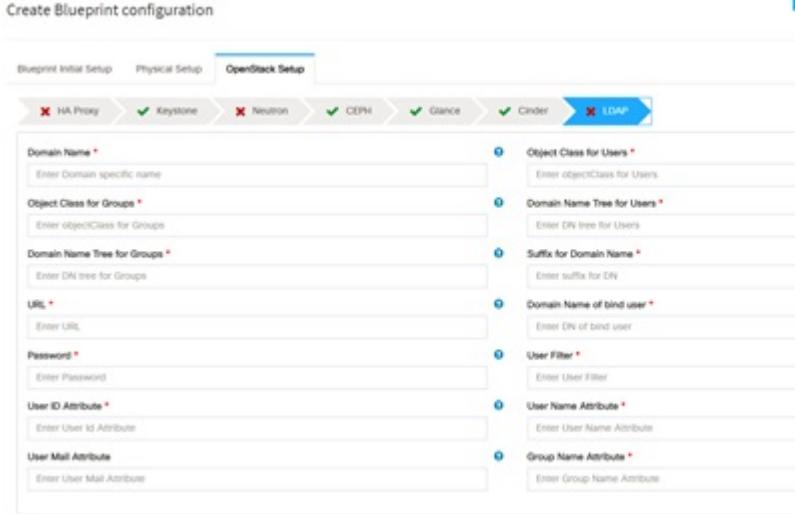
Name	Description
Admin IP	IP Address of Control Center VM
Management VIP	VIP for ceilometer/dispatcher to use, must be unique across VIM Pod
Host Name	Hostname of Collector VM
Password	Password of Collector VM
CCUSER Password	Password of CCUSER
Admin IP	SSH IP of Collector VM
Management IP	Management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

Name	Description				
<p>Collector ToR Connections</p>	<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="933 947 1523 1073"> <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.				
<p>Rabbit MQ User Name</p>	<p>Enter Rabbit MQ username.</p>				

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

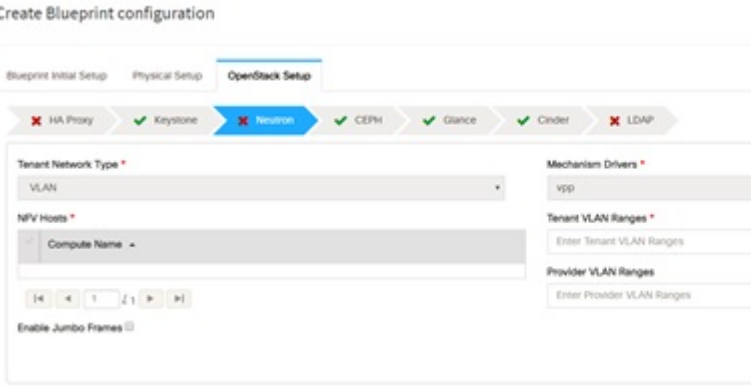
Name	Description										
<p>HA Proxy</p>	<p>Fill in the following details:</p>  <table border="1" data-bbox="813 806 1487 1220"> <tr> <td>External VIP Address field</td> <td>Enter IP address of External VIP.</td> </tr> <tr> <td>External VIP Address IPv6 field</td> <td>Enter IPv6 address of External 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="813 1591 1487 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
LDAP	

Name	Description																										
	<p>LDAP enable checkbox which by default is false, if LDAP is enabled on keystone.</p>  <table border="1" data-bbox="813 940 1487 1841"> <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.																										

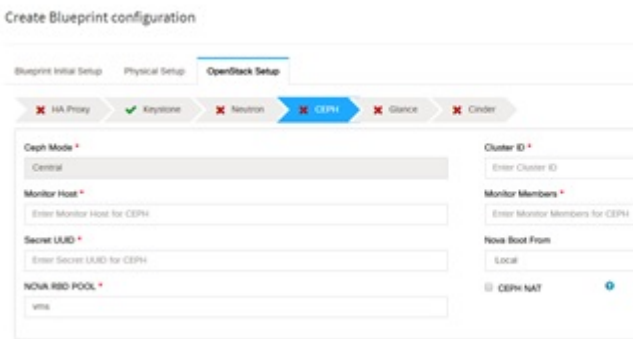

Name	Description		
	<table border="1"><tr><td data-bbox="850 285 1187 331">Group Name Attribute field</td><td data-bbox="1187 285 1524 331">Enter a string.</td></tr></table>	Group Name Attribute field	Enter a string.
Group Name Attribute field	Enter a string.		

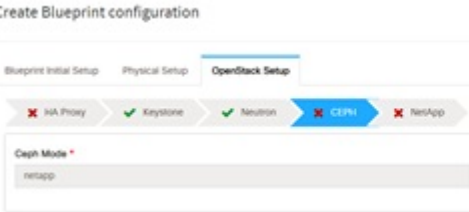
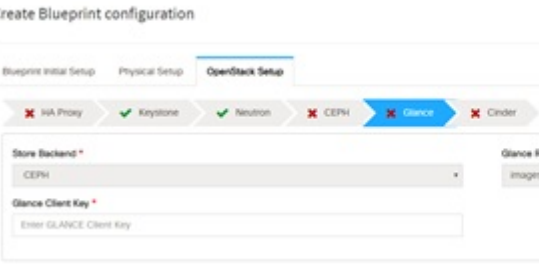
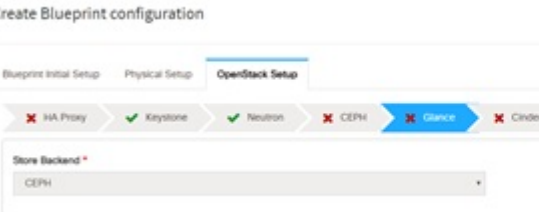
Name	Description
Neutron	

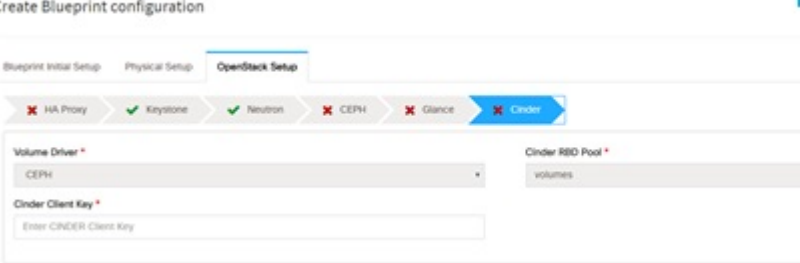
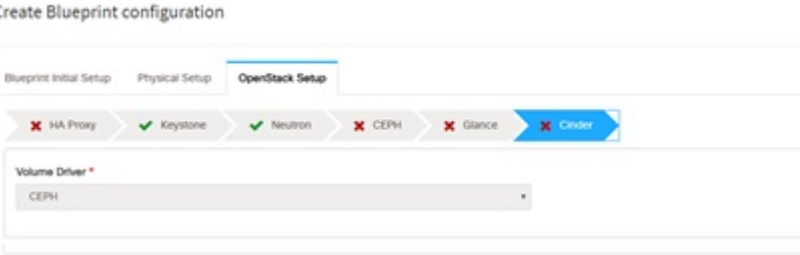
Name	Description														
	<p>Neutron fields would change on the basis of Tenant Network Type Selection from Blueprint Initial Setup. Following are the options available for Neutron for OVS/VLAN:</p>  <table border="1"> <tr> <td data-bbox="846 829 1182 982">Tenant Network Type field</td> <td data-bbox="1182 829 1534 982">Auto Filled based on the Tenant Network Type selected in the Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="846 982 1182 1102">Mechanism Drivers field</td> <td data-bbox="1182 982 1534 1102">Auto Filled based on the Tenant Network Type selected in Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="846 1102 1182 1480">NFV Hosts field</td> <td data-bbox="1182 1102 1534 1480">Auto filled with the Compute you added in Server and Roles. If you select All in this section NFV_HOSTS: ALL will be added to the Blueprint or you can select one particular compute. For Eg: NFV_HOSTS: compute-server-1, compute-server-2.</td> </tr> <tr> <td data-bbox="846 1480 1182 1570">Tenant VLAN Ranges field</td> <td data-bbox="1182 1480 1534 1570">List of ranges separated by comma form start:end.</td> </tr> <tr> <td data-bbox="846 1570 1182 1661">Provider VLAN Ranges field</td> <td data-bbox="1182 1570 1534 1661">List of ranges separated by comma form start:end.</td> </tr> <tr> <td data-bbox="846 1661 1182 1780">VM Huhg Page Size (available for NFV_HOSTS option) field</td> <td data-bbox="1182 1661 1534 1780">2M or 1G (optional, defaults to 2M)</td> </tr> <tr> <td data-bbox="846 1780 1182 1869">VM_HUGHPAGE_PERCENTAGE</td> <td data-bbox="1182 1780 1534 1869">Optional, defaults to 100%; can range between 0 and 100</td> </tr> </table>	Tenant Network Type field	Auto Filled based on the Tenant Network Type selected in the Blueprint Initial Setup page.	Mechanism Drivers field	Auto Filled based on the Tenant Network Type selected in Blueprint Initial Setup page.	NFV Hosts field	Auto filled with the Compute you added in Server and Roles. If you select All in this section NFV_HOSTS: ALL will be added to the Blueprint or you can select one particular compute. For Eg: NFV_HOSTS: compute-server-1, compute-server-2.	Tenant VLAN Ranges field	List of ranges separated by comma form start:end.	Provider VLAN Ranges field	List of ranges separated by comma form start:end.	VM Huhg Page Size (available for NFV_HOSTS option) field	2M or 1G (optional, defaults to 2M)	VM_HUGHPAGE_PERCENTAGE	Optional, defaults to 100%; can range between 0 and 100
Tenant Network Type field	Auto Filled based on the Tenant Network Type selected in the Blueprint Initial Setup page.														
Mechanism Drivers field	Auto Filled based on the Tenant Network Type selected in Blueprint Initial Setup page.														
NFV Hosts field	Auto filled with the Compute you added in Server and Roles. If you select All in this section NFV_HOSTS: ALL will be added to the Blueprint or you can select one particular compute. For Eg: NFV_HOSTS: compute-server-1, compute-server-2.														
Tenant VLAN Ranges field	List of ranges separated by comma form start:end.														
Provider VLAN Ranges field	List of ranges separated by comma form start:end.														
VM Huhg Page Size (available for NFV_HOSTS option) field	2M or 1G (optional, defaults to 2M)														
VM_HUGHPAGE_PERCENTAGE	Optional, defaults to 100%; can range between 0 and 100														

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

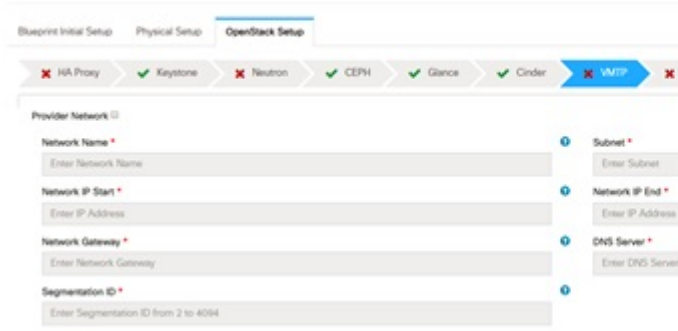

Name	Description
CEPH	

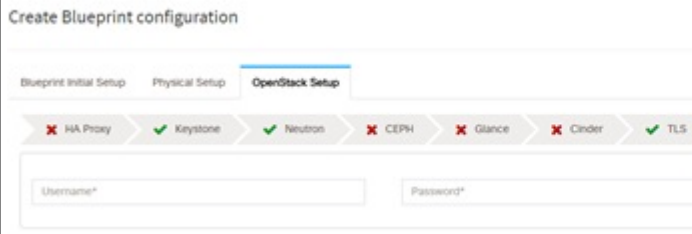
Name	Description																
	<p>1. 1. When Object Storage Backend is selected Central in blueprint initial setup.</p>  <p>The screenshot shows the 'OpenStack Setup' configuration page. The 'Ceph Mode' is set to 'Central'. Other fields include 'Cluster ID', 'Monitor Host', 'Monitor Members', 'Secret UUID', 'NOVA RBD POOL' (set to 'vms'), and 'NOVA Boot From' (set to 'Local'). The 'CEPH NAT' checkbox is checked.</p> <table border="1" data-bbox="857 751 1489 1255"> <tbody> <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> </tbody> </table> <p>2. When Object Storage Backend is selected Dedicated in blueprint initial setup.</p>  <p>The screenshot shows the 'OpenStack Setup' configuration page. The 'Ceph Mode' is set to 'Dedicated'. The 'NOVA Boot From' is set to 'Local'. The 'CEPH NAT' checkbox is unchecked.</p> <ul style="list-style-type: none"> • CEPH Mode: By default Dedicated. • NOVA Boot: From drop down selection you can choose CEPH or local. <p>3. When Object Storage Backend is selected NetApp in blueprint initial setup.</p>	CEPH Mode	By default Central.	Cluster ID	Enter Cluster ID.	Monitor Host	Enter Monitor Host for CEPH	Monitor Members	Enter Monitor Members for CEPH	Secret UUID	Enter Secret UUID for CEPH	NOVA Boot from	Drop down selection. You can choose CEPH or local.	NOVA RBD POOL	Enter NOVA RBD Pool (default's to vms)	CEPH NAT	Optional, needed for Central Ceph and when mgmt network is not routable
CEPH Mode	By default Central.																
Cluster ID	Enter Cluster ID.																
Monitor Host	Enter Monitor Host for CEPH																
Monitor Members	Enter Monitor Members for CEPH																
Secret UUID	Enter Secret UUID for CEPH																
NOVA Boot from	Drop down selection. You can choose CEPH or local.																
NOVA RBD POOL	Enter NOVA RBD Pool (default's to vms)																
CEPH NAT	Optional, needed for Central Ceph and when mgmt network is not routable																

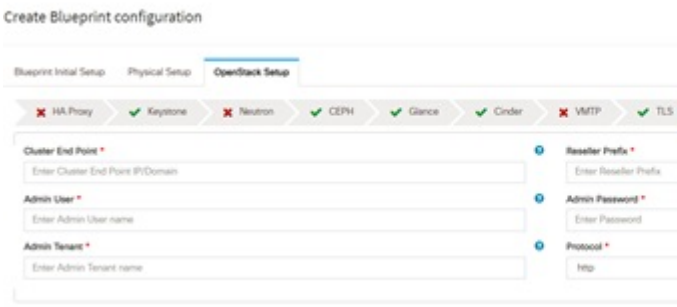
Name	Description
	<p>Create Blueprint configuration</p>  <p>The screenshot shows the 'OpenStack Setup' step of a blueprint configuration wizard. The progress bar indicates that 'HA Proxy', 'Keystone', and 'Neutron' are successfully configured (green checkmarks), while 'CEPH' and 'NetApp' are not (red X marks). The 'Ceph Mode' dropdown menu is set to 'netapp'.</p>
<p>GLANCE</p>	<p>1. When Object Storage Backend is selected Central in blueprint initial setup.</p>  <p>This screenshot shows the 'OpenStack Setup' step with 'Glance' selected as the storage backend. The progress bar shows 'HA Proxy', 'Keystone', and 'Neutron' as successful, and 'CEPH', 'Glance', and 'Cinder' as failed. The 'Store Backend' dropdown is set to 'CEPH', and the 'Glance RBD Pool' dropdown is set to 'images'. The 'Glance Client Key' field is empty with the placeholder text 'Enter GLANCE Client Key'.</p> <p>When Object Storage Backend is selected Dedicated in blueprint initial setup.</p>  <p>This screenshot is similar to the previous one, showing 'Glance' as the selected storage backend. The 'Store Backend' dropdown is set to 'CEPH'.</p> <p>Note By default Populated for CEPH Dedicated with Store Backend value as CEPH.</p>

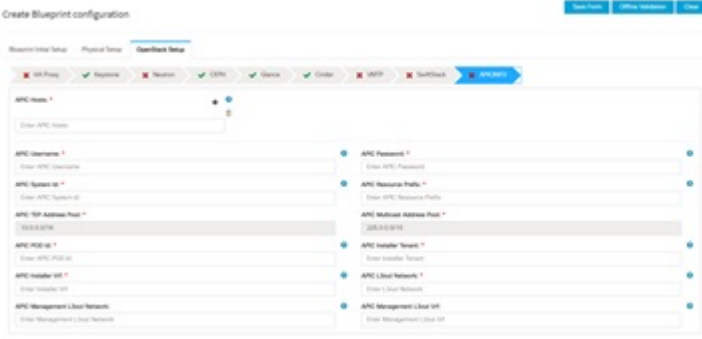
Name	Description
<p>CINDER</p>	<p>By default Populated for CEPH Dedicated with Volume Driver value as CEPH.</p>  <p>2. When Object Storage Backend is selected Dedicated in blueprint initial setup.</p>  <p>Note By default Populated for CEPH Dedicated with Volume Driver value as CEPH.</p>


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

Name	Description		
	<p>Check one of the check boxes to specify a VMTP network:</p> <ul style="list-style-type: none"> • Provider Network • External Network <p>For the Provider Network complete the following:</p> <p>Create Blueprint configuration</p> 		
	<table border="1"> <tr> <td data-bbox="813 926 1149 999">Network Name field</td> <td data-bbox="1149 926 1482 999">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="813 1012 1149 1085">Subnet field</td> <td data-bbox="1149 1012 1482 1085">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="813 1098 1149 1171">Network IP Start field</td> <td data-bbox="1149 1098 1482 1171">Enter the starting floating IPv4 address.</td> </tr> </table>	Network IP Start field	Enter the starting floating IPv4 address.
Network IP Start field	Enter the starting floating IPv4 address.		
	<table border="1"> <tr> <td data-bbox="813 1184 1149 1257">Network IP End field</td> <td data-bbox="1149 1184 1482 1257">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="813 1270 1149 1344">Network Gatewayfield</td> <td data-bbox="1149 1270 1482 1344">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="813 1356 1149 1430">DNS Server field</td> <td data-bbox="1149 1356 1482 1430">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="813 1442 1149 1495">Segmentation ID field</td> <td data-bbox="1149 1442 1482 1495">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> 		

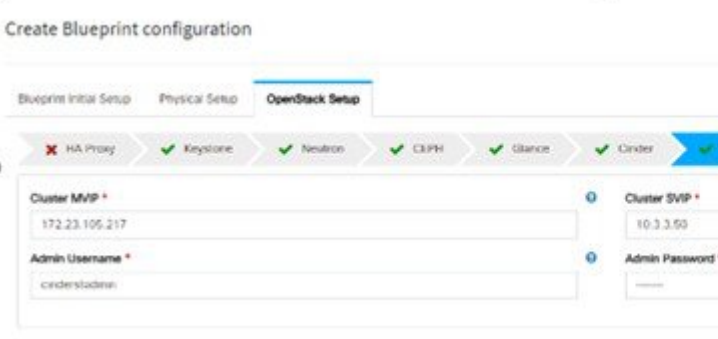
Name	Description					
	Network Name field	Enter the name for the external network.				
	IP Start field	Enter the starting floating IPv4 address.				
	IP End field	Enter the ending floating IPv4 address.				
	Gateway field	Enter the IPv4 address for the Gateway.				
	DNS Server field	Enter the DNS server 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="846 1346 1529 1551"> <tr> <td data-bbox="846 1346 1187 1423">User Name</td> <td data-bbox="1192 1346 1529 1423">Enter username</td> </tr> <tr> <td data-bbox="846 1423 1187 1551">Password</td> <td data-bbox="1192 1423 1529 1551">Password field. Admin hash password should always start with \$6.</td> </tr> </table>		User Name	Enter username	Password	Password field. Admin hash password should always start with \$6.
User Name	Enter username					
Password	Password field. Admin hash password should always start with \$6.					

Name	Description												
<p>SwiftStack optional section will be visible only if SwiftStack is selected from Blueprint Initial Setup Page. SwiftStack is only supported with KeyStone2. If you select Keystone3, swiftstack will not be available to configure.</p>	<p>Following are the options that needs to be filled for SwiftStack:</p>  <table border="1"> <tr> <td data-bbox="812 682 1149 808">Cluster End Point</td> <td data-bbox="1149 682 1485 808">IP address of PAC (proxy-account-container) endpoint.</td> </tr> <tr> <td data-bbox="812 808 1149 892">Admin User</td> <td data-bbox="1149 808 1485 892">Admin user for swift to authenticate in keystone.</td> </tr> <tr> <td data-bbox="812 892 1149 1050">Admin Tenant</td> <td data-bbox="1149 892 1485 1050">The service tenant corresponding to the Account-Container used by Swiftstack.</td> </tr> <tr> <td data-bbox="812 1050 1149 1207">Reseller Prefix</td> <td data-bbox="1149 1050 1485 1207">Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_</td> </tr> <tr> <td data-bbox="812 1207 1149 1260">Admin Password</td> <td data-bbox="1149 1207 1485 1260">swiftstack_admin_password</td> </tr> <tr> <td data-bbox="812 1260 1149 1333">Protocol</td> <td data-bbox="1149 1260 1485 1333">http or https</td> </tr> </table>	Cluster End Point	IP address of PAC (proxy-account-container) endpoint.	Admin User	Admin user for swift to authenticate in keystone.	Admin Tenant	The service tenant corresponding to the Account-Container used by Swiftstack.	Reseller Prefix	Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_	Admin Password	swiftstack_admin_password	Protocol	http or https
Cluster End Point	IP address of PAC (proxy-account-container) endpoint.												
Admin User	Admin user for swift to authenticate in keystone.												
Admin Tenant	The service tenant corresponding to the Account-Container used by Swiftstack.												
Reseller Prefix	Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_												
Admin Password	swiftstack_admin_password												
Protocol	http or https												


Name	Description																								
<p>APICINFO tab is available in Openstack setup, when the Tenant type ACI/VLAN is selected in blueprint initial setup.</p>																									
<p>Note When ACI/VLAN is selected then ToR switch from initial setup is mandatory.</p>	<table border="1"> <thead> <tr> <th data-bbox="857 667 1185 724">Name</th> <th data-bbox="1193 667 1518 724">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="857 730 1185 840"> <p>APIC Hosts field</p> </td> <td data-bbox="1193 730 1518 840"> <p>Enter host input. Example: <ip1 host1>:[port] . max of 3, min of 1, not 2;</p> </td> </tr> <tr> <td data-bbox="857 846 1185 898"> <p>apic_username field</p> </td> <td data-bbox="1193 846 1518 898"> <p>Enter a string format.</p> </td> </tr> <tr> <td data-bbox="857 905 1185 957"> <p>apic_password filed</p> </td> <td data-bbox="1193 905 1518 957"> <p>Enter Password.</p> </td> </tr> <tr> <td data-bbox="857 963 1185 1050"> <p>apic_system_id field</p> </td> <td data-bbox="1193 963 1518 1050"> <p>Enter input as string. Max length 8.</p> </td> </tr> <tr> <td data-bbox="857 1056 1185 1108"> <p>apic_resource_prefix field</p> </td> <td data-bbox="1193 1056 1518 1108"> <p>Enter string max length 6.</p> </td> </tr> <tr> <td data-bbox="857 1115 1185 1167"> <p>apic_tep_address_pool field</p> </td> <td data-bbox="1193 1115 1518 1167"> <p>Allowed only 10.0.0.0/16</p> </td> </tr> <tr> <td data-bbox="857 1173 1185 1249"> <p>multiclass_address_pool field</p> </td> <td data-bbox="1193 1173 1518 1249"> <p>Allowed only 225.0.0.0/15</p> </td> </tr> <tr> <td data-bbox="857 1255 1185 1308"> <p>apic_pod_id field</p> </td> <td data-bbox="1193 1255 1518 1308"> <p>Enter integer(1- 65535)</p> </td> </tr> <tr> <td data-bbox="857 1314 1185 1367"> <p>apic_installer_tenant field</p> </td> <td data-bbox="1193 1314 1518 1367"> <p>Enter String, max length 32</p> </td> </tr> <tr> <td data-bbox="857 1373 1185 1425"> <p>apic_installer_vrf field</p> </td> <td data-bbox="1193 1373 1518 1425"> <p>Enter String, max length 32</p> </td> </tr> <tr> <td data-bbox="857 1432 1185 1484"> <p>api_l3out_network field</p> </td> <td data-bbox="1193 1432 1518 1484"> <p>Enter String, max length 32</p> </td> </tr> </tbody> </table>	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 filed</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>
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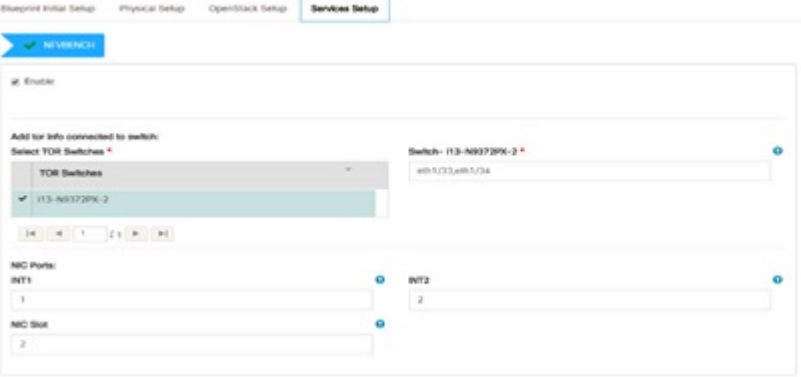
Name	Description														
<p>VTS tab is available in Openstack setup, when Tenant Type is VTS/VLAN selected.</p> <p>If vts day0 is enabled then SSH username and SSH password is mandatory.</p> <p>If SSH_username is input present then SSH password is mandatory vice-versa</p>	 <table border="1" data-bbox="820 556 1485 997"> <thead> <tr> <th>Name</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>VTS Day0 (checkbox)</td> <td>True or false default is false.</td> </tr> <tr> <td>VTS User name</td> <td>Enter as string does not contain special characters.</td> </tr> <tr> <td>VTS Password</td> <td>Enter password</td> </tr> <tr> <td>VTS NCS IP</td> <td>Enter IP Address format.</td> </tr> <tr> <td>VTC SSH Username</td> <td>Enter a string</td> </tr> <tr> <td>VTC SHH Password</td> <td>Enter password</td> </tr> </tbody> </table>	Name	Description	VTS Day0 (checkbox)	True or false default is false.	VTS User name	Enter as string does not contain special characters.	VTS Password	Enter password	VTS NCS IP	Enter IP Address format.	VTC SSH Username	Enter a string	VTC SHH Password	Enter password
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VTS Password	Enter password														
VTS NCS IP	Enter IP Address format.														
VTC SSH Username	Enter a string														
VTC SHH Password	Enter password														

9. 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="901 1522 1485 1816"> <tbody> <tr> <td>Cluster MVIP field</td> <td>Management IP of SolidFire cluster.</td> </tr> <tr> <td>Cluster SVIP field</td> <td>Storage VIP of SolidFire cluster.</td> </tr> <tr> <td>Admin Username</td> <td>Admin user on SolidFire cluster</td> </tr> <tr> <td>Admin Password</td> <td>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.								

10. 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="675 877 1528 1255"> <thead> <tr> <th>Remote Host</th> <th>Protocol</th> <th>Facility</th> <th>Severity</th> <th>Port</th> <th>Clients</th> <th>Action</th> </tr> </thead> <tbody> <tr> <td>1.1.1.1</td> <td>udp</td> <td>local5</td> <td>debug</td> <td>514</td> <td>ELK</td> <td>[Edit] [Delete]</td> </tr> <tr> <td>2.2.2.2</td> <td>udp</td> <td>local5</td> <td>debug</td> <td>514</td> <td>ELK</td> <td>[Edit] [Delete]</td> </tr> </tbody> </table>	Remote Host	Protocol	Facility	Severity	Port	Clients	Action	1.1.1.1	udp	local5	debug	514	ELK	[Edit] [Delete]	2.2.2.2	udp	local5	debug	514	ELK	[Edit] [Delete]
Remote Host	Protocol	Facility	Severity	Port	Clients	Action																
1.1.1.1	udp	local5	debug	514	ELK	[Edit] [Delete]																
2.2.2.2	udp	local5	debug	514	ELK	[Edit] [Delete]																
Remote Host	Enter Syslog IP address.																					
Protocol	Only UDP is supported.																					
Facility	Defaults to local5.																					
Severity	Defaults to debug.																					
Clients	Defaults to ELK.																					
Port	Defaults to 514 but can be modified by the User.																					

Name	Description
<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. <p>NIC Slot: Optional input, indicates which NIC to use in case there are multiple NICs.</p> <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>

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.

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 Insight**.

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 Insight**.
 - 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 Insight 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 Insight 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.

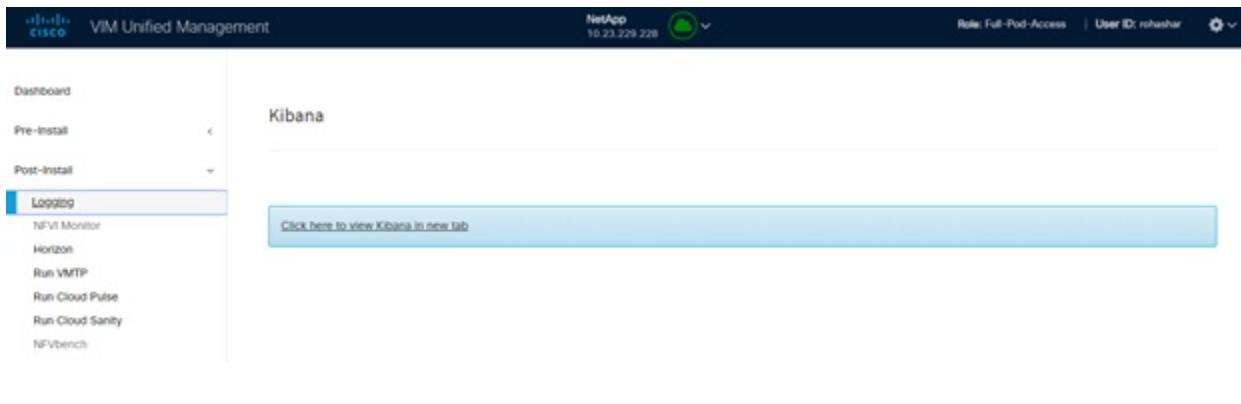
Monitoring the Pod

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:

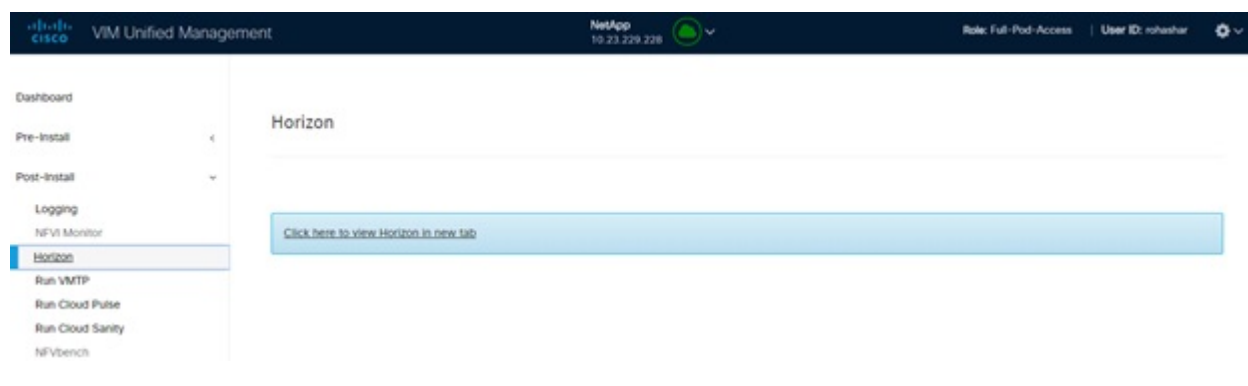
- Step 1** In the navigation pane, click **Post-Install** > **Logging**.
- Step 2** Click **Click here to view Kibana in new tab**.
- Step 3** Enter the **Username** as Admin.

- 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 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

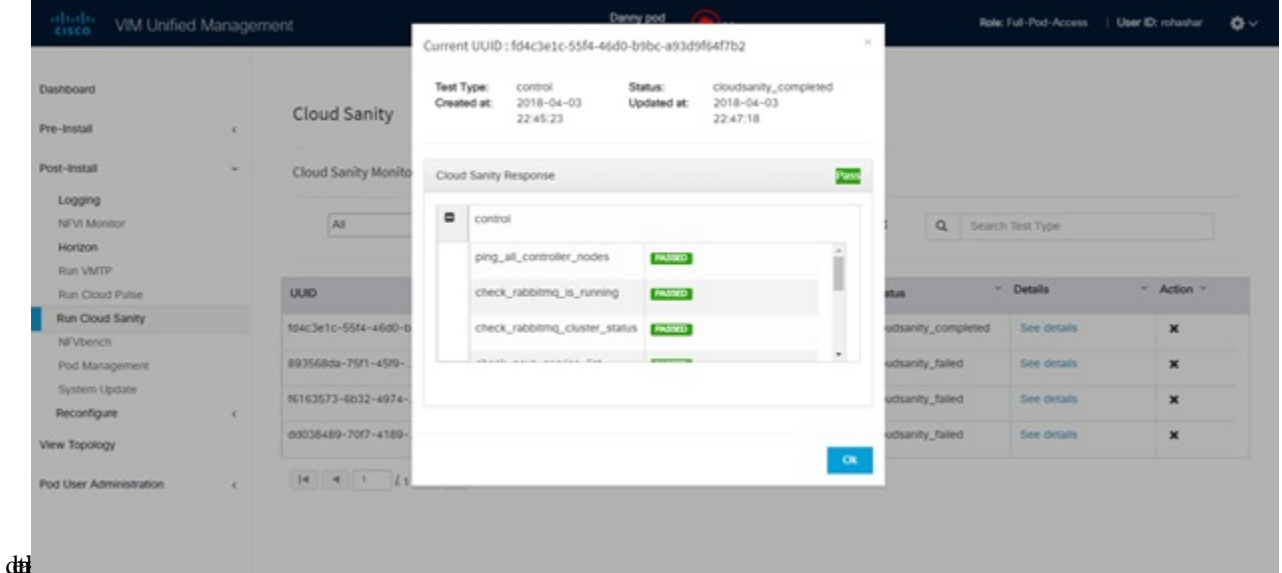
You can use the cloud sanity tool to test the Cisco NFVI pod and cloud infrastructure (host connectivity, basic mraidb, rabbit, ceph cluster check, and RAID disks).

Following are the test available to run from insight.

- 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 Insight. 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.

NDR/PDR Test

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

Name	Description
Iteration Duration	Choose duration from 10 to 60 sec. Default is 20 sec.
Frame Size	Choose the correct frame size to run.
Run NDR/PDR test	Click Run NDR/PDR test . After, completion it displays each type of test with its own settings and results.

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 Insight**.

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
CIMC_COMMON old Password	CIMC_COMMON old password field cannot be edited.
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.