



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 109](#)

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 Unified Management as pod user.
 - Step 2** Choose the Cisco VIM pod with the blueprint that you want to view.
 - Step 3** Click **Menu** at the top left corner to expand the navigation pane.
 - Step 4** Choose **Pre-Install > Blueprint Management**.
 - Step 5** Choose a blueprint from the list.
 - Step 6** Click **Preview and Download YAML**.
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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 **Unified Management UI Application**.
All the fields present in the YAML file is uploaded to the respective fields in the UI.
 - Step 6** Provide a **Name for the Blueprint**.
While saving the blueprint name has to be unique.
 - Step 7** Click **Offline Validation**.

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

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

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

Activating a Blueprint in an Existing Pod with OpenStack Installed

Before you begin

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

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

Step 2 Click **Register Management Node**.

Step 3 Enter the following details:

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

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

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

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

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

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

Blueprint Management



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

The screenshot shows the Cisco VIM Unified Management interface. The top navigation bar includes the Cisco logo, 'VIM Unified Management', the user's name 'Calsoft', IP address '10.30.116.244', role 'Full-Pod-Access', and user ID 'rohshar'. A notification bar at the top center says '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' of 5 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.

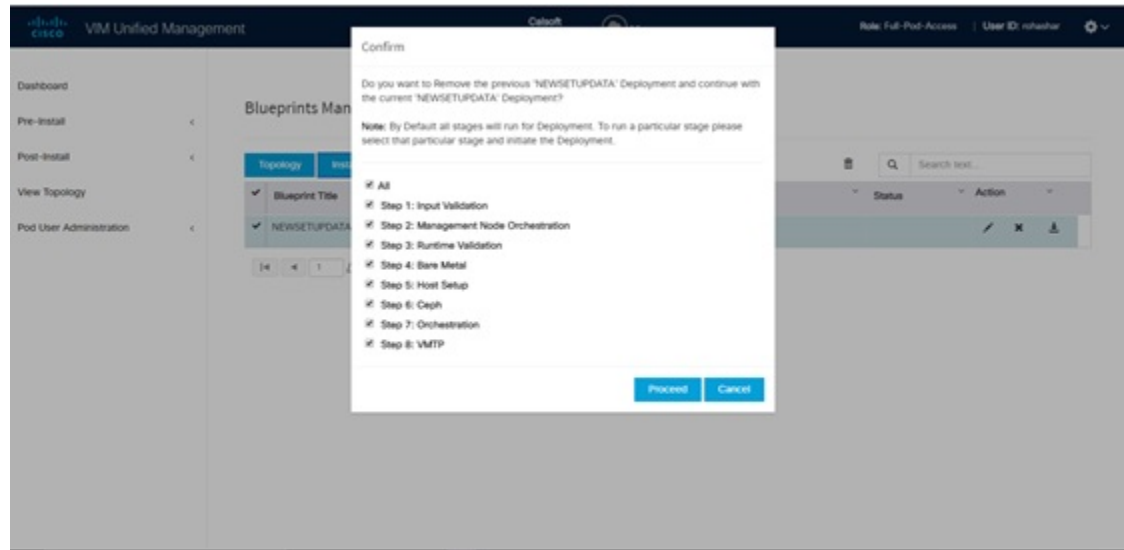
- Valid: Blueprint that is saved after offline validation success.
- Invalid: Blueprint that is saved after Offline Validation failure.
- Inprogress: Blueprint that is saved without running Offline Validation.
- Deployed: Blueprint that is used to bring up cloud without failures.
- Installing: Blueprint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

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



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

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



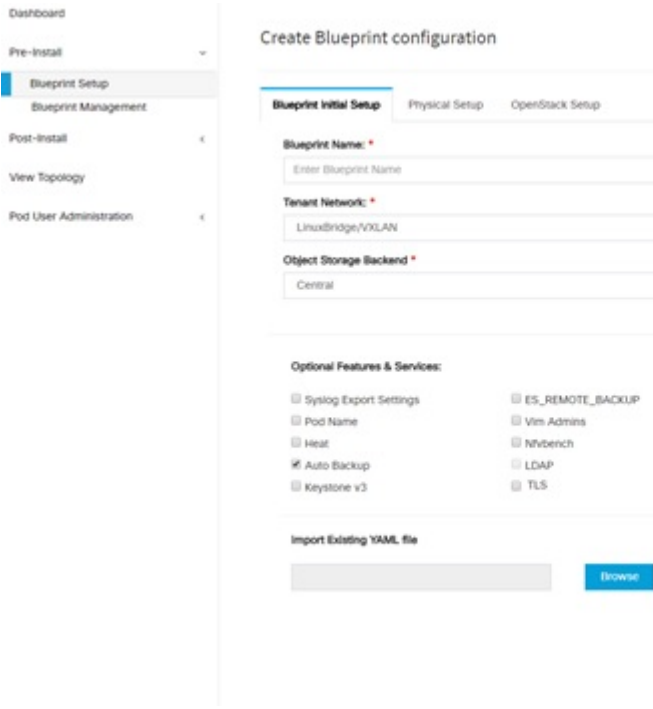
Note During the various operations across the application the cloud icon in the center of the header changes its color which is based on the following table.

Table 1:

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

Creating a Blueprint for B-Series Server Platform

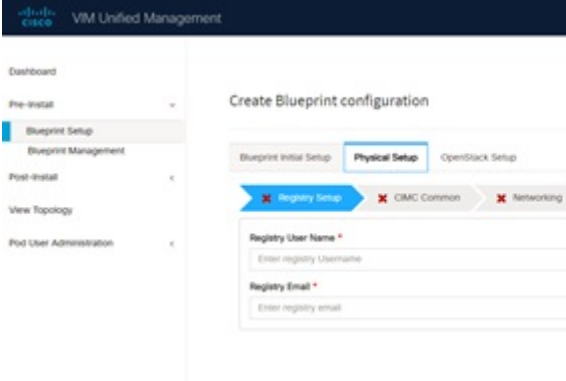
Procedure

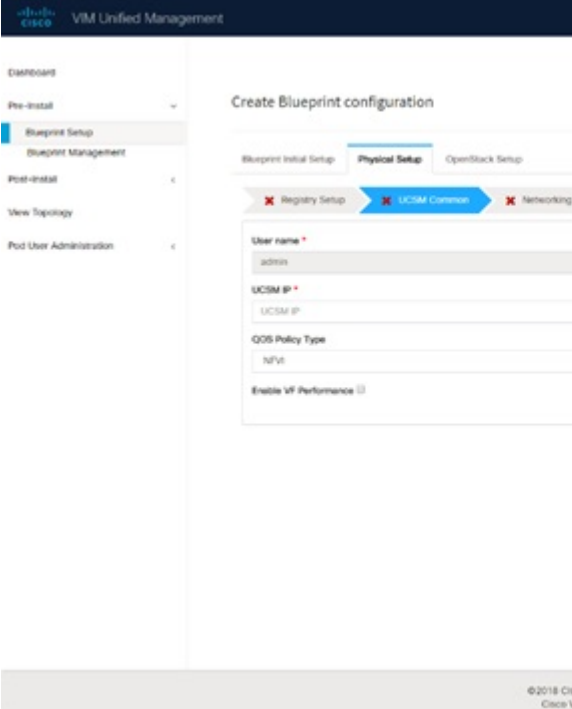
	Command or Action	Purpose						
Step 1	In the navigation pane, choose Pre-Install > Blueprint Setup .							
Step 2	To create a B Series Blueprint :	<p>1. On the Blueprint Initial Setup pane of the Cisco VIM Unified Management, complete the following fields:</p>  <table border="1" data-bbox="966 1344 1526 1774"> <thead> <tr> <th>Name</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Blueprint Name field</td> <td>Enter blueprint configuration name.</td> </tr> <tr> <td>Platform Type drop-down list</td> <td>Choose one of the following platform types: <ul style="list-style-type: none"> • B-Series (By default) choose B series for this section. • C-Series </td> </tr> </tbody> </table>	Name	Description	Blueprint Name field	Enter blueprint configuration name.	Platform Type drop-down list	Choose one of the following platform types: <ul style="list-style-type: none"> • B-Series (By default) choose B series for this section. • C-Series
Name	Description							
Blueprint Name field	Enter blueprint configuration name.							
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	Command or Action	Purpose	
		Name	Description
		Tenant Network drop-down list	Choose one of the following tenant network types: <ul style="list-style-type: none"> • Linuxbridge/VXLAN • OVS/VLAN
		Pod Type drop-down list	Choose one of the following pod types: <ul style="list-style-type: none"> • Fullon(By Default)
		Ceph Mode drop-down list	Choose one of the following Ceph types: <ul style="list-style-type: none"> • Dedicated • Central (By Default) - Not supported in Production
		SSH Banner	An optional parameter <code>ssh_banner</code> is available in the <code>setup_data</code> , to accept a string or message that is to be displayed before the login prompt. This message indicates a warning consistent with a company's IT policies.

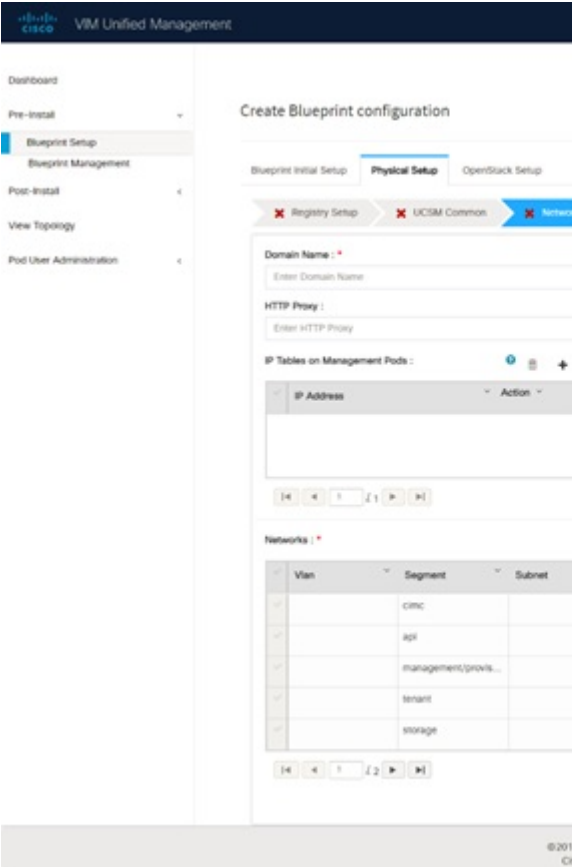
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		<table border="1"> <tbody> <tr> <td data-bbox="893 325 1247 892"> Optional Features and Services Checkbox </td> <td data-bbox="1247 325 1534 892"> Swiftstack, LDAP, Syslog Export Settings, Install Mode, ToR Switch Information, TLS, NFVMON, Pod Name, VMTP, NFV Bench, Auto-backup, Heat, Keystone v3, Enable Esc Priv. If any one is selected, the corresponding section is visible in various Blueprint sections. By default all features are disabled except Auto-backup. </td> </tr> </tbody> </table>	Optional Features and Services Checkbox	Swiftstack, LDAP, Syslog Export Settings, Install Mode, ToR Switch Information, TLS, NFVMON, Pod Name, VMTP, NFV Bench, Auto-backup, Heat, Keystone v3, Enable Esc Priv. If any one is selected, the corresponding section is visible in various Blueprint sections. By default all features are disabled except Auto-backup.	
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		<table border="1"> <tbody> <tr> <td data-bbox="893 892 1247 1360"> Import Existing YAML file </td> <td data-bbox="1247 892 1534 1360"> Click Browse button to import the existing yaml file. If you have an existing B Series YAML file you can use this feature to upload the file. Unified Management automatically fill in the fields and if any mandatory field is missed then it gets highlighted in the respective section. </td> </tr> </tbody> </table>	Import Existing YAML file	Click Browse button to import the existing yaml file. If you have an existing B Series YAML file you can use this feature to upload the file. Unified Management automatically fill in the fields and if any mandatory field is missed then it gets highlighted in the respective section.	
Import Existing YAML file	Click Browse button to import the existing yaml file. If you have an existing B Series YAML file you can use this feature to upload the file. Unified Management automatically fill in the fields and if any mandatory field is missed then it gets highlighted in the respective section.				

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

	Command or Action	Purpose								
		 <table border="1" data-bbox="927 684 1489 1003"> <thead> <tr> <th>Name</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Registry User Name text field</td> <td>Enter the User-Name for Registry (Mandatory).</td> </tr> <tr> <td>Registry Password text field</td> <td>Enter the Password for Registry (Mandatory).</td> </tr> <tr> <td>Registry Email text field</td> <td>Enter the Email ID for Registry (Mandatory).</td> </tr> </tbody> </table> <p>Once all mandatory fields are filled the Validation Check Registry Pane shows a Green Tick.</p> <p>3. Click UCSM Common Tab and complete the following fields:</p>	Name	Description	Registry User Name text field	Enter the User-Name for Registry (Mandatory).	Registry Password text field	Enter the Password for Registry (Mandatory).	Registry Email text field	Enter the Email ID for Registry (Mandatory).
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		 <table border="1" data-bbox="966 1018 1526 1680"> <thead> <tr> <th>Name</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>User name disabled field</td> <td>By default the value is Admin.</td> </tr> <tr> <td>Password text field</td> <td>Enter Password for UCSM Common (Mandatory).</td> </tr> <tr> <td>UCSM IP text field</td> <td>Enter IP Address for UCSM Common (Mandatory).</td> </tr> <tr> <td>Resource Prefix text field</td> <td>Enter the resource prefix(Mandatory).</td> </tr> <tr> <td>QOS Policy Type drop-down</td> <td>Choose one of the following types: <ul style="list-style-type: none"> NFVI (Default) Media </td> </tr> </tbody> </table>	Name	Description	User name disabled field	By default the value is Admin.	Password text field	Enter Password for UCSM Common (Mandatory) .	UCSM IP text field	Enter IP Address for UCSM Common (Mandatory) .	Resource Prefix text field	Enter the resource prefix (Mandatory) .	QOS Policy Type drop-down	Choose one of the following types: <ul style="list-style-type: none"> NFVI (Default) Media
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	Command or Action	Purpose	
		Name	Description
		Max VF Count text field	Select the Max VF Count. <1-54> Maximum VF count 54, default is 20. If VF performance is enabled we recommend you to keep MAX_VF_COUNT to 20 else may fail on some VICs like 1240.
		Enable VF Performance optional checkbox	Default is false. Set to true to apply adaptor policy at VF level.
		Enable Prov FI PIN optional checkbox	Default is false.
		MRAID-CARD optional checkbox	Enables JBOD mode to be set on disks. Applicable only if you have RAID controller configured on Storage C240 Rack servers.
		Enable UCSM Plugin optional checkbox	Visible when Tenant Network type is OVS/VLAN.
		Enable QoS Policy optional checkbox	Visible only when UCSM Plugin is enabled. If UCSM Plugin is disabled then this option is set to False.
		Enable QOS for Port Profile optional checkbox	Visible only when UCSM Plugin is enabled.
		SRIOV Multi VLAN Trunk optional grid	Visible when UCSM Plugin is enabled. Enter the values for network and vlans ranges. Grid can handle all CRUD operations such as Add, Delete, Edit and, Multiple Delete.

	Command or Action	Purpose										
		<p>4. Click Networking to advance to the networking section of the Blueprint:</p>  <table border="1" data-bbox="966 1249 1534 1776"> <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.

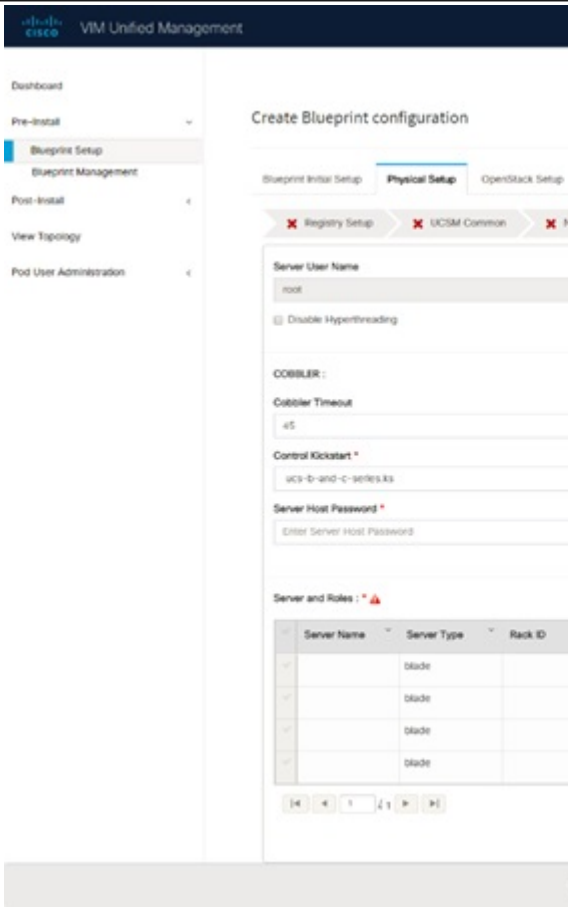
	Command or Action	Purpose	
		Name	Description
		Network table	

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	Command or Action	Purpose		
		Name	Description	
			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 • Management • Tenant • CIMC • Storage • External • Provider (optional) <p>Note Some segments do not need some of the values listed in the preceding points.</p>
			Subnet field	Enter the IPv4 address for the subnet.
			IPv6 Subnet field	

	Command or Action	Purpose																							
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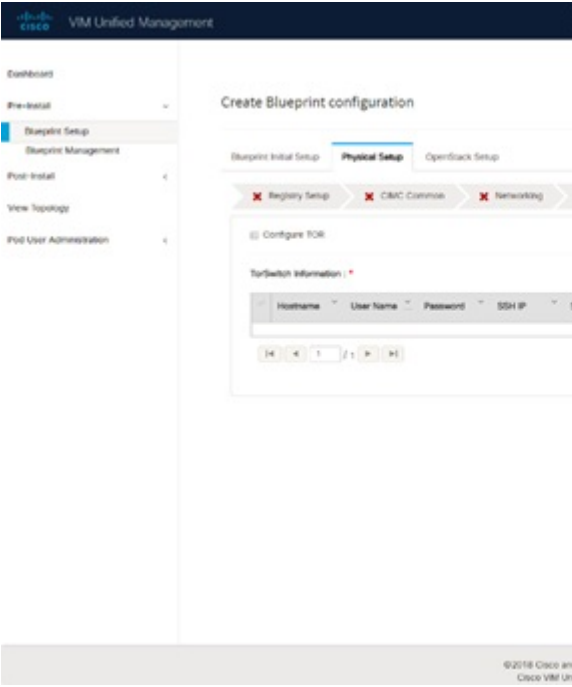
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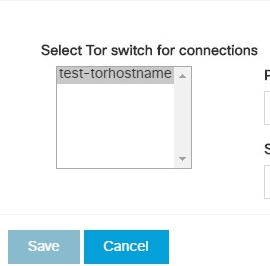
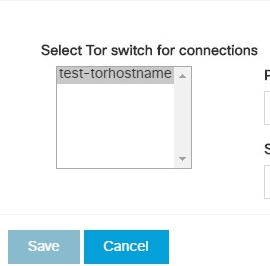
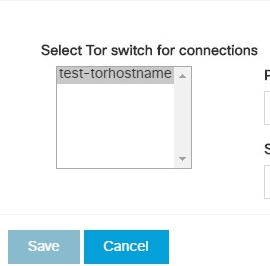
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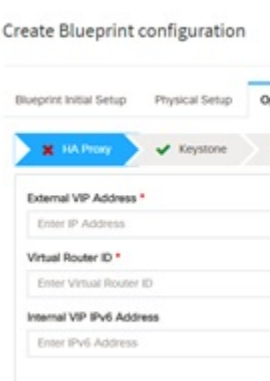
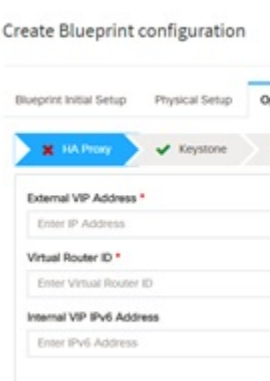
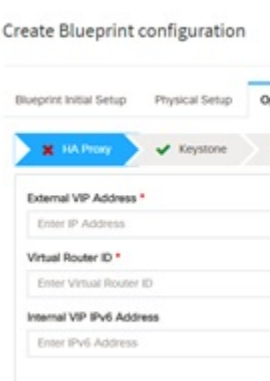
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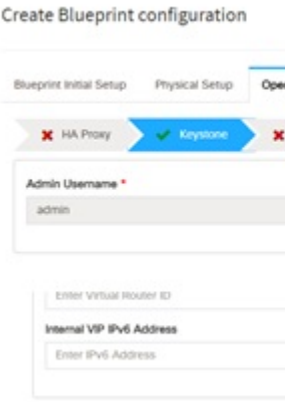
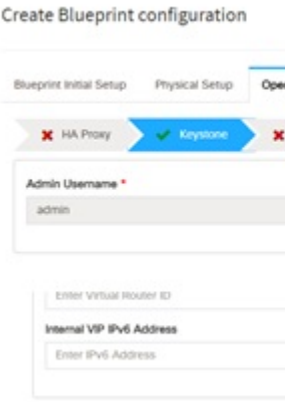
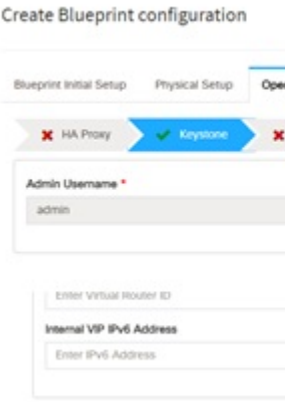
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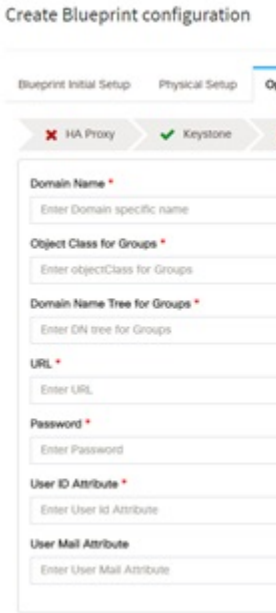
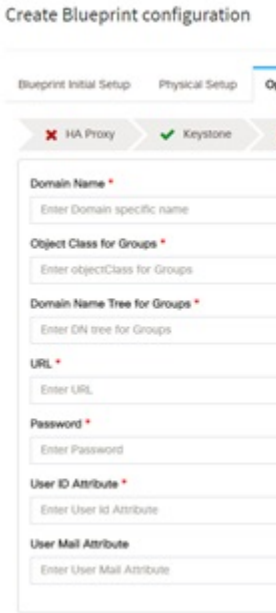
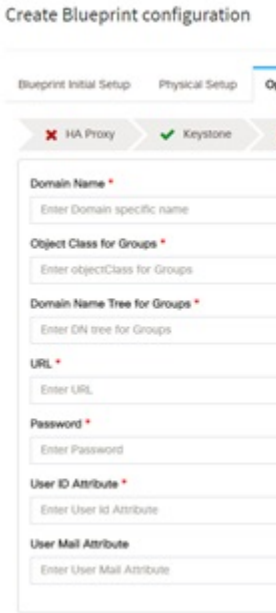
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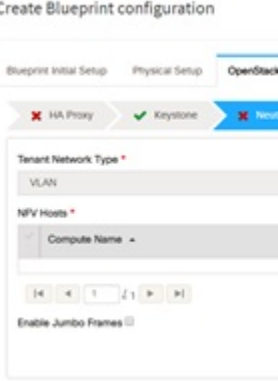
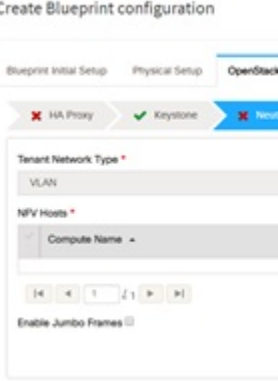
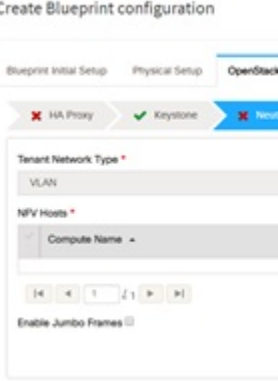
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		Note This option is only available with Keystone v3	

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	Command or Action	Purpose	
		Name	Description
			field
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			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.
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			User Mail Attribute field Enter a string.
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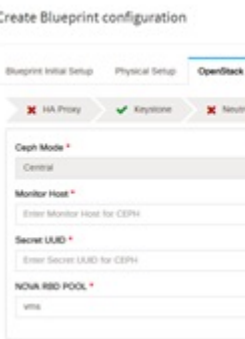
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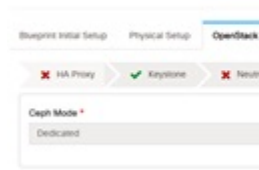
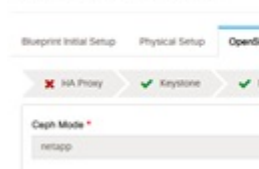
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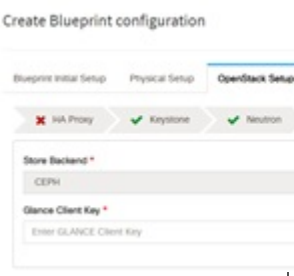
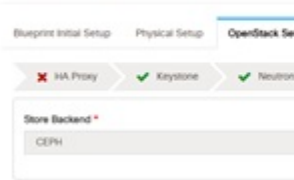
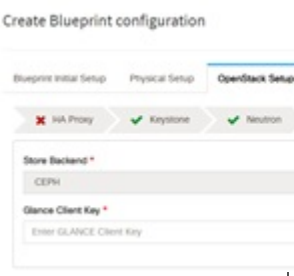
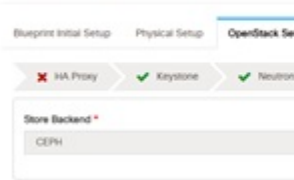
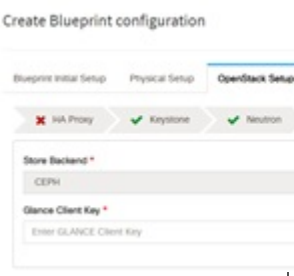
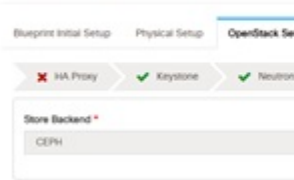
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	Command or Action	Purpose	
		Name	Description
			For Tenant Network Type, Linux Bridge everything remains the same but Tenant VLAN Ranges is removed.

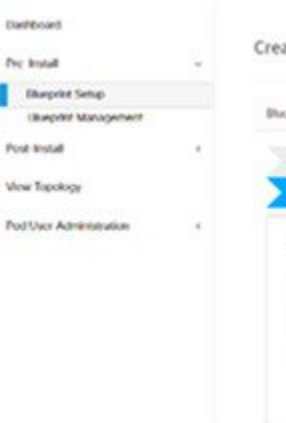
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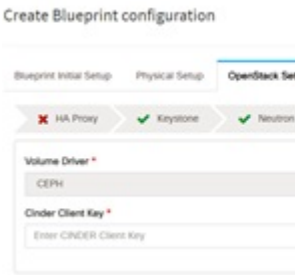

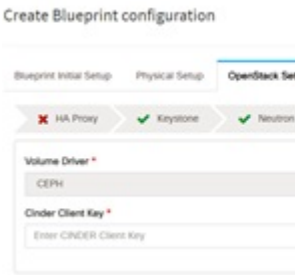

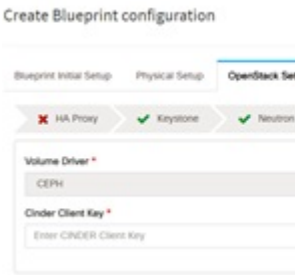

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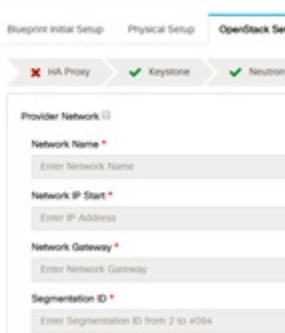
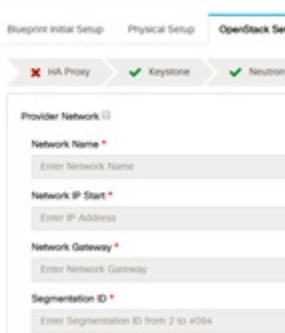
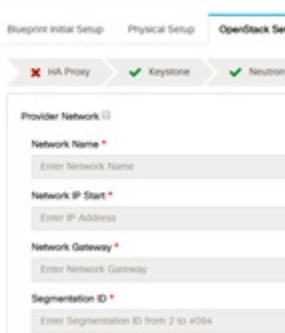
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	Command or Action	Purpose	
		Name	Description
		Vim LDAP Admins	

	Command or Action	Purpose	
		Name	Description
			<p>Optional entry to support LDAP for Admin access to management node. TLS must be enabled for the external api (i.e. external_lb_vip_tls: True).</p> <p>Following are the values to be filled to add vim LDAP admins:</p>  <ul style="list-style-type: none"> • domain_name: Mandatory to define vim LDAP admins. • ldap_uri : The ldap_uris must be secured over ldaps. It is mandatory field • ldap_search_base: It is mandatory. Enter search base • ldap_schema: Optional. Enter the schema. • ldap_user_object_class: Optional. Indicates the posixAccount. • ldap_user_uid_number: Optional. Enter the user id number.

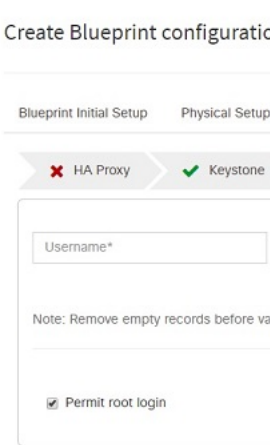
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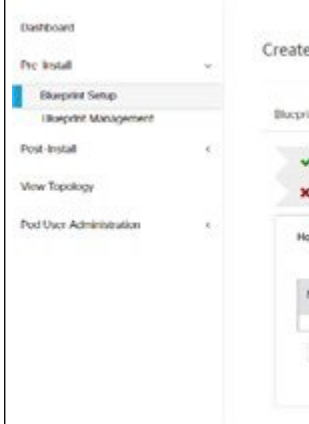
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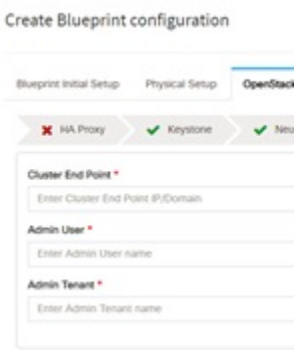
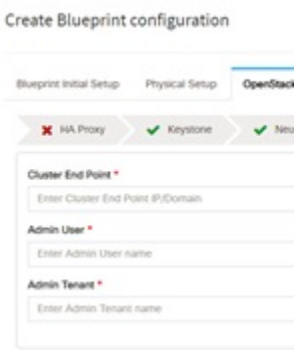
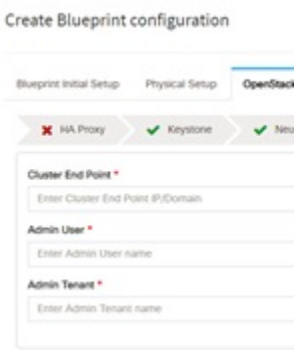
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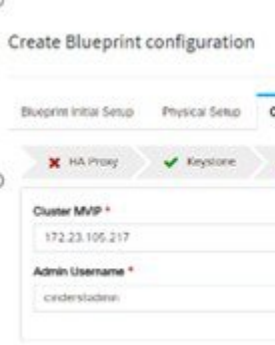
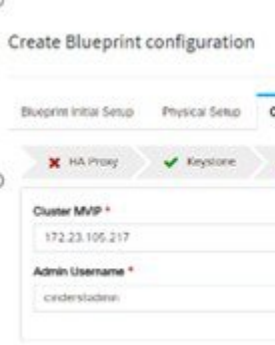
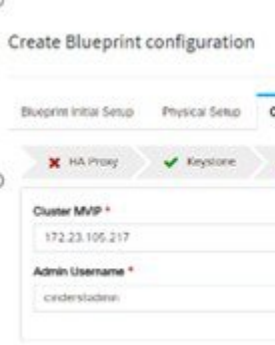
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		Name	Description						
			<table border="1"> <tr> <td data-bbox="1230 331 1382 415"></td> <td data-bbox="1382 331 1534 415">the Gateway.</td> </tr> <tr> <td data-bbox="1230 415 1382 569">DNS Server field</td> <td data-bbox="1382 415 1534 569">Enter the DNS server IPv4 address.</td> </tr> <tr> <td data-bbox="1230 569 1382 688">Segmentation ID field</td> <td data-bbox="1382 569 1534 688">Enter the segmentation ID.</td> </tr> </table>		the Gateway.	DNS Server field	Enter the DNS server IPv4 address.	Segmentation ID field	Enter the segmentation ID.
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DNS Server field	Enter the DNS server IPv4 address.								
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		<p>For External Network fill in the following details:</p>  <p>The screenshot shows a form titled 'External Network' with the following fields: 'Network Name' (with a red asterisk), 'Network IP Start' (with a red asterisk), and 'Network Gateway'. Each field has a corresponding input box with placeholder text: 'Enter Network Name', 'Enter IP Address', and 'Enter Network Gateway'.</p>							




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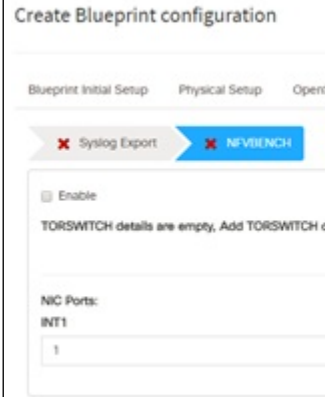
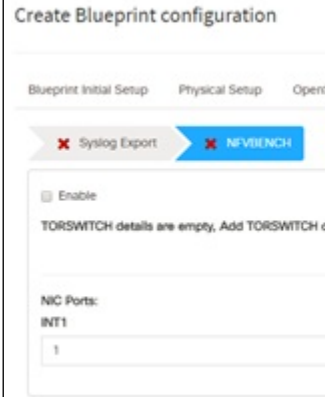
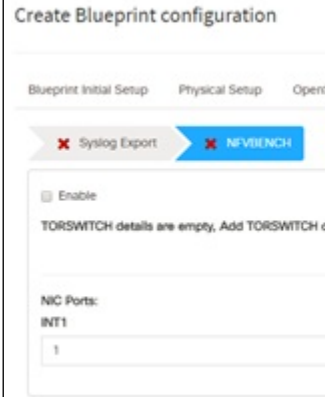
	Command or Action	Purpose	
		Name	Description
		<p>Under the OpenStack setup tab, Vim_admins tab will be visible only when Vim_admins is selected from the Optional Features & Services under the Blueprint Initial setup tab</p>	<p>Following are the field descriptions for VIM Admins:</p>  <ul style="list-style-type: none"> • User Name - Text field. • Password - Password field. Admin hash password should always start with \$6.

	Command or Action	Purpose					
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		<p>9. For SolidFire, enter the following:</p> <table border="1" data-bbox="927 323 1492 1341"> <thead> <tr> <th data-bbox="927 323 1208 380">Name</th> <th data-bbox="1208 323 1492 380">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="927 380 1208 764"> SolidFire is visible for configuration on day0 SolidFire is not allowed as a day-2 deployment option SolidFire is always available with CEPH. </td> <td data-bbox="1208 380 1492 1341">  <table border="1" data-bbox="1208 764 1492 1341"> <tbody> <tr> <td data-bbox="1208 764 1333 926">Cluster MVIP field</td> <td data-bbox="1333 764 1492 926">Management IP of SolidFire cluster.</td> </tr> <tr> <td data-bbox="1208 926 1333 1052">Cluster SVIP field</td> <td data-bbox="1333 926 1492 1052">Storage VIP of SolidFire cluster.</td> </tr> <tr> <td data-bbox="1208 1052 1333 1167">Admin Username</td> <td data-bbox="1333 1052 1492 1167">Admin user on SolidFire cluster</td> </tr> <tr> <td data-bbox="1208 1167 1333 1341">Admin Password</td> <td data-bbox="1333 1167 1492 1341">Admin password on SolidFire cluster.</td> </tr> </tbody> </table> </td> </tr> </tbody> </table> <p>10. If Syslog Export or NFVBENCH is selected in Blueprint Initial Setup, the Services Setup pane is enabled for the user to view.</p> <p>Following are the options under Services Setup Tab:</p>	Name	Description	SolidFire is visible for configuration on day0 SolidFire is not allowed as a day-2 deployment option SolidFire is always available with CEPH.	 <table border="1" data-bbox="1208 764 1492 1341"> <tbody> <tr> <td data-bbox="1208 764 1333 926">Cluster MVIP field</td> <td data-bbox="1333 764 1492 926">Management IP of SolidFire cluster.</td> </tr> <tr> <td data-bbox="1208 926 1333 1052">Cluster SVIP field</td> <td data-bbox="1333 926 1492 1052">Storage VIP of SolidFire cluster.</td> </tr> <tr> <td data-bbox="1208 1052 1333 1167">Admin Username</td> <td data-bbox="1333 1052 1492 1167">Admin user on SolidFire cluster</td> </tr> <tr> <td data-bbox="1208 1167 1333 1341">Admin Password</td> <td data-bbox="1333 1167 1492 1341">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.
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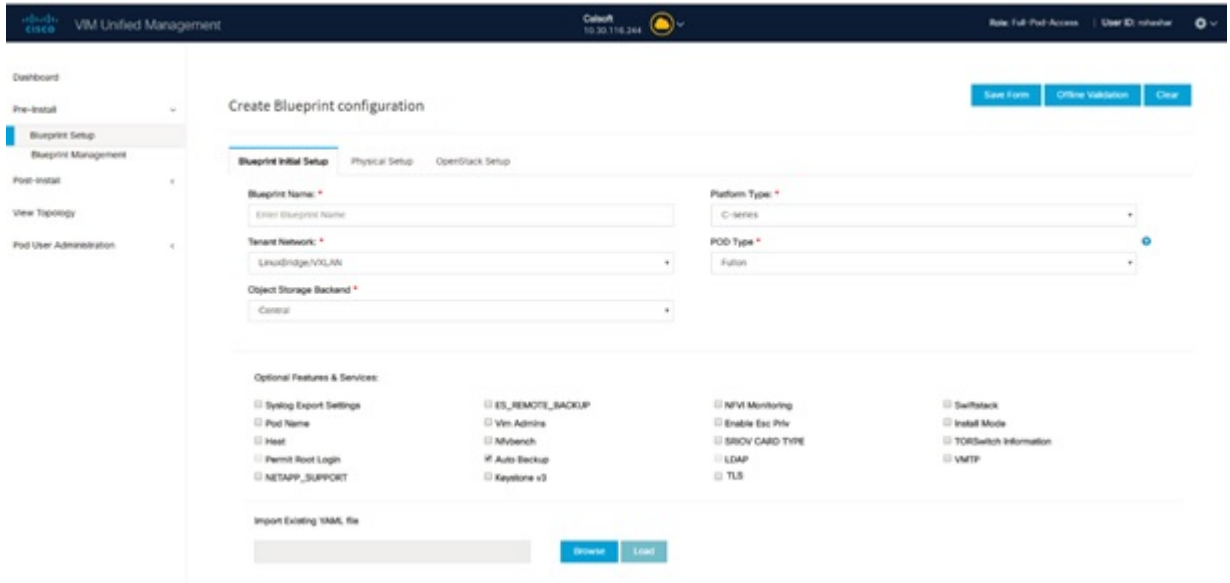
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		ENABLE_ESC_PRIV	<p>Enable the checkbox to set it as True. By default it is <i>False</i>.</p>				

Creating Blueprint for C-Series Server Platform

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

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

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

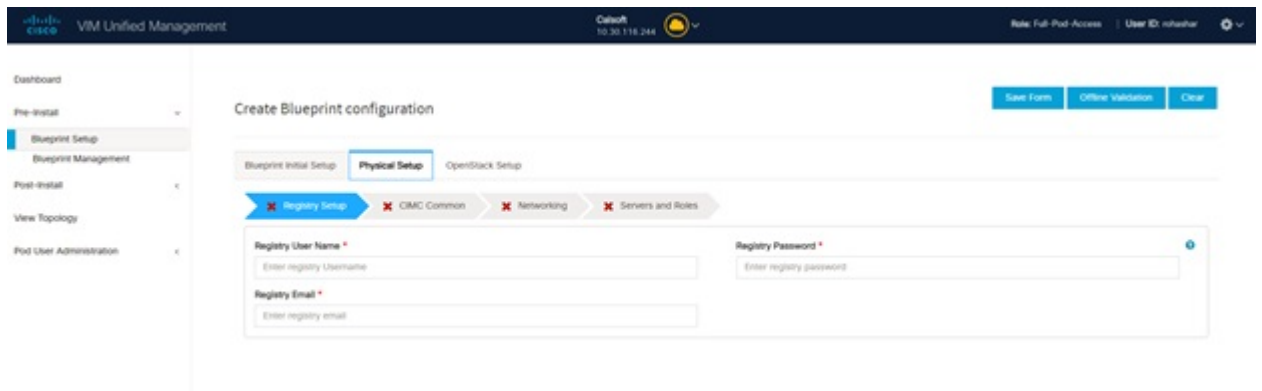


Name	Description
Blueprint Name field.	Enter the name for the blueprint configuration.
Platform Type drop-down list	Choose one of the following platform types: <ul style="list-style-type: none"> • B-Series (By default) • C-Series (Select C Series)

Name	Description
Tenant Network drop-down list	<p>Choose one of the following tenant network types:</p> <ul style="list-style-type: none"> • Linux Bridge/VXLAN • OVS/VLAN • VTS/VLAN • VPP/VLAN • ACI/VLAN <p>Note when VTS/VLAN or ACI/VLAN is selected then respective tabs are available on Blueprint setup. When Mechanism driver OVS or ACI is selected, VM_HUGEPAGE_PERCENTAGE field is enabled for all standalone compute nodes, when NFV_HOSTS is enabled.</p>
Pod Type drop-down list	<p>Choose one of the following pod type :</p> <ul style="list-style-type: none"> • Fullon(By Default) • Micro • UMHC • NGENAHC <p>Note</p> <ul style="list-style-type: none"> • UMHC pod type is only supported for OVS/VLAN tenant type. • NGENAHC is supported for VPP/VLAN tenant type with no SRIOV • Pod type micro is supported for OVS/VLAN, ACI/VLAN,VPP/VLAN.
Ceph Mode drop-down list	<p>Choose one of the following Ceph types:</p> <ul style="list-style-type: none"> • Dedicated (By Default) • Central. Central is not supported in Production
SSH Banner	<p>Optional parameter <code>ssh_banner</code> is available in the <code>setup_data</code>, to accept a string or message that is to be displayed before the login prompt. This message indicates a warning in consistent with company's IT policies.</p>

Name	Description
<p>Optional and Services Features checkbox</p>	<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>
<p>Import Existing YAML file</p>	<p>If you have an existing C Series YAML file you can use this feature to upload the file.</p> <p>Unified Management will automatically fill in the fields and any missed mandatory field will be highlighted in the respective section.</p>

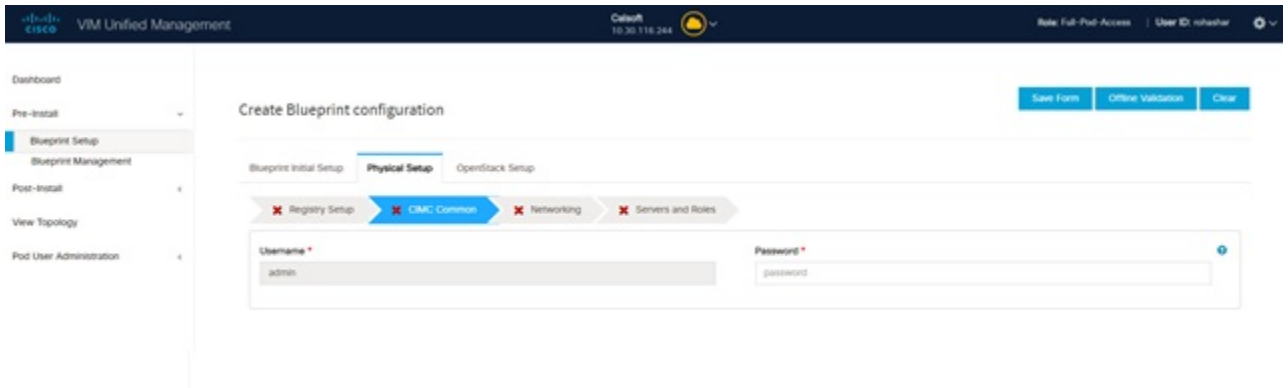
2. Click **Physical Setup** to advance to the **Registry Setup** configuration page. Fill in the following details for Registry Setup:



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

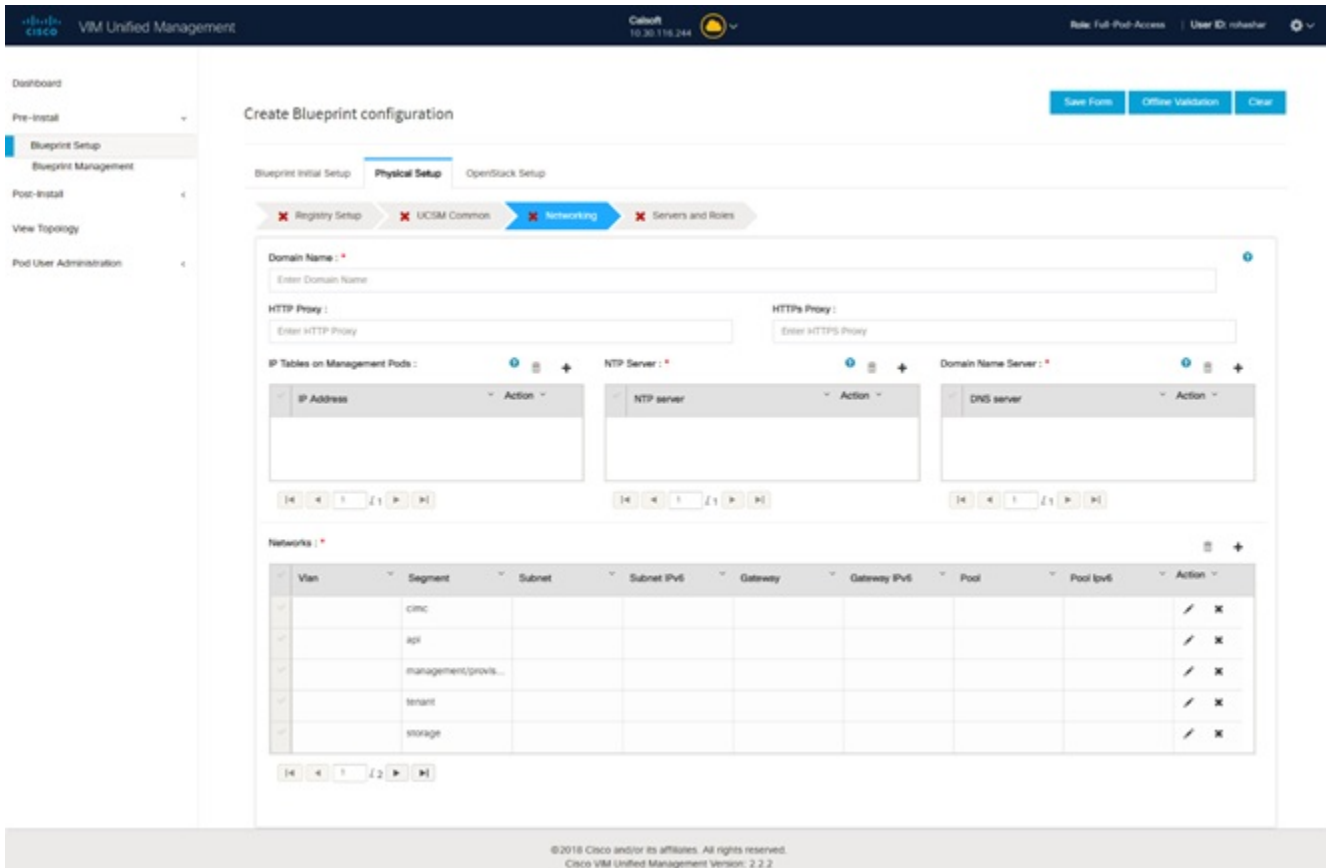
Once all the mandatory fields are filled the **Validation Check Registry Page** will be changed to a Green Tick.

3. 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).

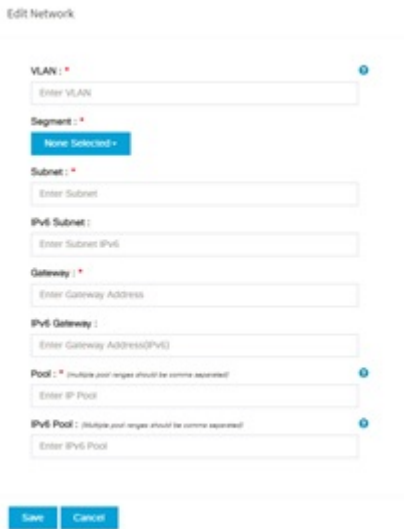
- Click **Networking** to advance to the networking section of the Blueprint.



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

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

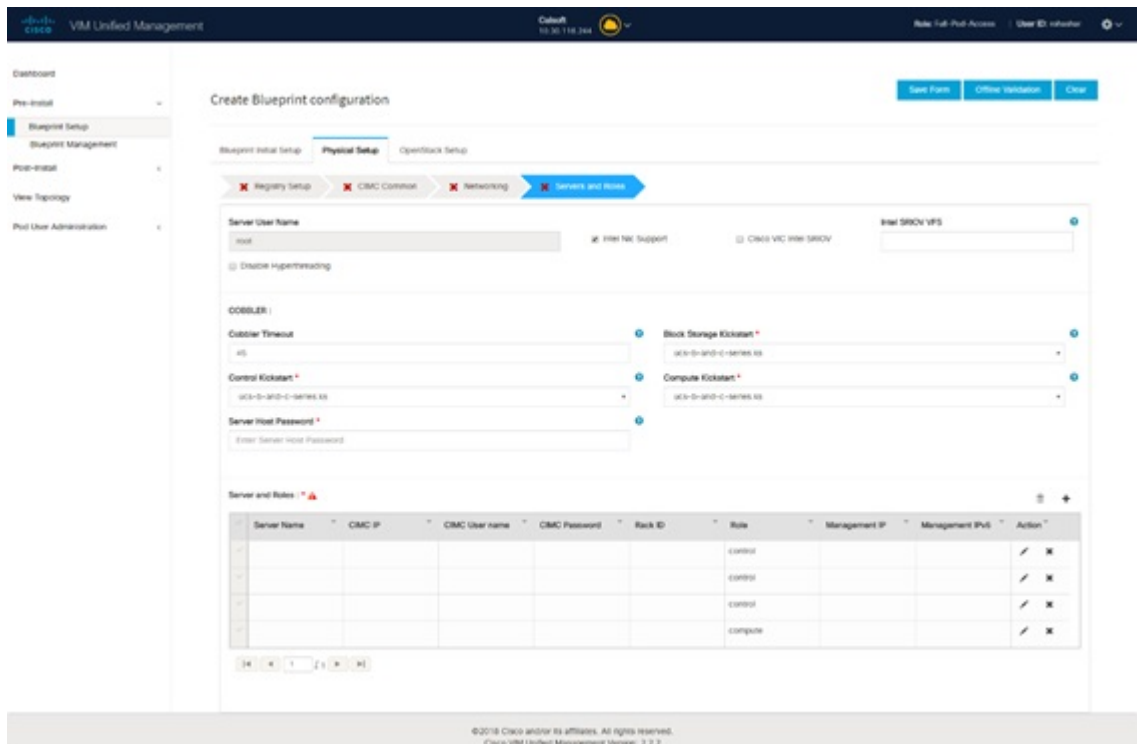
Name	Description
Networks table	

Name	Description						
	<p>Network table is pre-populated with Segments. To add Networks you can either clear all the table with Delete all or click edit icon for each segment and fill in the details.</p> <p>You can add, edit, or delete network information in the table.</p>  <ul style="list-style-type: none"> • Click Add (+) to add new entries (networks) to the table. • Specify the following fields in the Edit Entry to Networks dialog: 						
	<table border="1"> <thead> <tr> <th data-bbox="932 1270 1230 1304">Name</th> <th data-bbox="1235 1270 1524 1304">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="932 1310 1230 1478"> VLAN field </td> <td data-bbox="1235 1310 1524 1478"> Enter the VLAN ID. For Segment - Provider, the VLAN ID value is 'none'. </td> </tr> <tr> <td data-bbox="932 1484 1230 1839"> Segment drop-down list </td> <td data-bbox="1235 1484 1524 1839"> When you add/edit new segment then following segments types are available in the form of dropdown list and you can select only one. <ul style="list-style-type: none"> • API • Management/provision • Tenant </td> </tr> </tbody> </table>	Name	Description	VLAN field	Enter the VLAN ID . For Segment - Provider, the VLAN ID value is 'none'.	Segment drop-down list	When you add/edit new segment then following segments types are available in the form of dropdown list and you can select only one. <ul style="list-style-type: none"> • API • Management/provision • Tenant
Name	Description						
VLAN field	Enter the VLAN ID . For Segment - Provider, the VLAN ID value is 'none'.						
Segment drop-down list	When you add/edit new segment then following segments types are available in the form of dropdown list and you can select only one. <ul style="list-style-type: none"> • API • Management/provision • Tenant 						

Name	Description	
		<ul style="list-style-type: none"> • Storage • External • Provider • ACIINFRA <p>Note Aciiinfra segment is available only when ACI/VLAN tenant type is selected) Depending upon the segment some of the entries below are not needed. Please refer to the example file in openstack-configs dir for details.</p>
	Subnet field	Enter the IPv4 address for the subnet.
	IPv6 Subnet field	Enter IPv6 Address. This field will be available only for Management provision and API
	Gateway field	Enter the IPv4 address for the Gateway.
	Gateway IPv6 field	Enter the IPv6 address for the gateway. This will support for API and management provision.
	Pool field	Enter the pool information in the required format, for example: 10.1.15-10.1.10,102.15-102.1.10 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: 10.1.15-10.1.1.10,102.15-102.1.10
		Allowed only when ToR is NCS-5500 Can only be defined for management/provision, storage, and tenant segments
	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="867 527 1398 1318" style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <p style="text-align: center; margin: 0;">Server And Roles</p> <div style="margin-top: 10px;"> <p>Server Name * ?</p> <input style="width: 100%; margin-bottom: 5px;" type="text" value="Enter Server Name"/> </div> <div> <p>VIC Slot</p> <input style="width: 100%; margin-bottom: 5px;" type="text" value="Enter VIC Slot"/> </div> <div> <p>CIMC IP * ?</p> <input style="width: 100%; margin-bottom: 5px;" type="text" value="Enter CIMC IP Address"/> </div> <div> <p>CIMC User Name</p> <input style="width: 100%; margin-bottom: 5px;" type="text" value="Enter CIMC Username"/> </div> <div> <p>CIMC Password ?</p> <input style="width: 100%; margin-bottom: 5px;" type="password" value="Enter CIMC Password"/> </div> <div> <p>Rack ID * ?</p> <input style="width: 100%; margin-bottom: 5px;" type="text" value="Enter Rack ID"/> </div> <div> <p>Role *</p> <div style="border: 1px solid #ccc; height: 20px; width: 100%; margin-bottom: 5px;"></div> </div> <div> <p>Management IP ?</p> <input style="width: 100%; margin-bottom: 5px;" type="text" value="Enter Management IP Address"/> </div> <div> <p>Management IPv6 ?</p> <input style="width: 100%; margin-bottom: 5px;" type="text" value="Enter Management IPv6 Address"/> </div> <div style="margin-top: 10px; text-align: center;"> Save Cancel </div> </div>

Name	Description	
	Management IP	It is an optional field but if 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)	

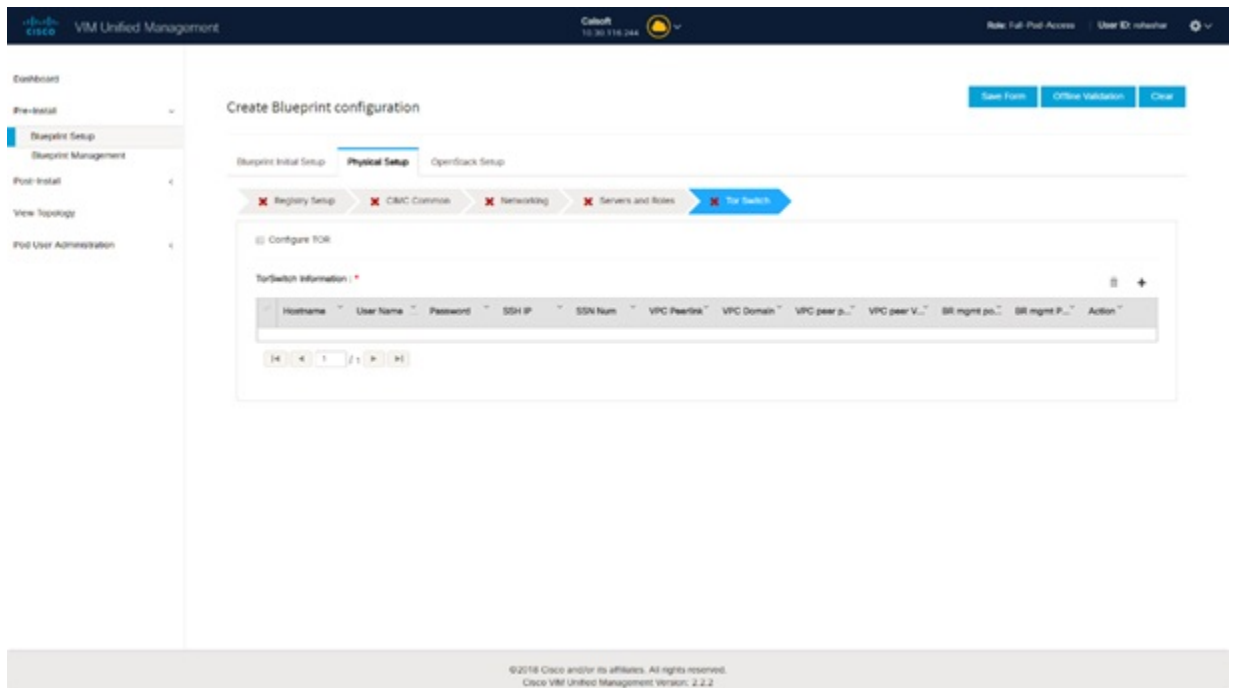
Name	Description
INTEL_SRIOV_PHYS_PORTS (valid for Intel NIC test beds) and can be of value 2 or 4 (default is 2)	In some cases the # of Physical SRIOV port needed is 4; to meet that requirement, define the following: # this is optional, if nothing is defined code will assume it to be 2; the only 2 integer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

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

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

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

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



Name	Description
<p data-bbox="326 289 711 321">Configure ToR optional checkbox.</p> <p data-bbox="326 338 792 401">Note If UMHC is selected as podtype, configure TOR is not allowed.</p>	<p data-bbox="834 289 1533 352">Enabling this checkbox, changes the configure ToR section from false to true.</p> <p data-bbox="834 369 1533 432">Note Configure tor is true then ToR switch info maps in servers</p>

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

Name	Description														
	<p>Click (+) to add information for ToR Switch.</p> <p>Switch Details</p> <div style="border: 1px solid #ccc; padding: 10px;"> <p>Hostname * ⓘ</p> <input type="text" value="Enter Switch Hostname"/> <p>Username * ⓘ</p> <input type="text" value="Enter Switch Username"/> <p>Password * ⓘ</p> <input type="text" value="Enter Password"/> <p>SSH-IP * ⓘ</p> <input type="text" value="Enter IP Address"/> <p>SSN Num ⓘ</p> <input type="text" value="Enter SSN Num"/> <p>VPC Peer Keepalive ⓘ</p> <input type="text" value="Enter IP Address"/> <p>VPC Domain ⓘ</p> <input type="text" value="Enter VPC Domain"/> <p>VPC Peer Port Info ⓘ</p> <input type="text" value="Enter VPC Port"/> <p>VPC Peer VLAN Info ⓘ</p> <input type="text" value="Enter VPC VLAN Info"/> <p>BR Management Port Info ⓘ</p> <input type="text" value="Enter BR Port Info"/> <p>BR Management PO Info ⓘ</p> <input type="text" value="Enter BR PO Info"/> <p style="text-align: right;"> <input type="button" value="Save"/> <input type="button" value="Cancel"/> </p> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Name</th> <th style="width: 50%;">Description</th> </tr> </thead> <tbody> <tr> <td>Name</td> <td>ToR switch name.</td> </tr> <tr> <td>Username</td> <td>ToR switch username.</td> </tr> <tr> <td>Password</td> <td>ToR switch password.</td> </tr> <tr> <td>SSH IP</td> <td>ToR switch SSH IP.</td> </tr> <tr> <td>SSN Num</td> <td>ToR switch ssn num.</td> </tr> <tr> <td>VPC Peer Keepalive</td> <td>Peer Management IP. You cannot define if there is no peer.</td> </tr> </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.

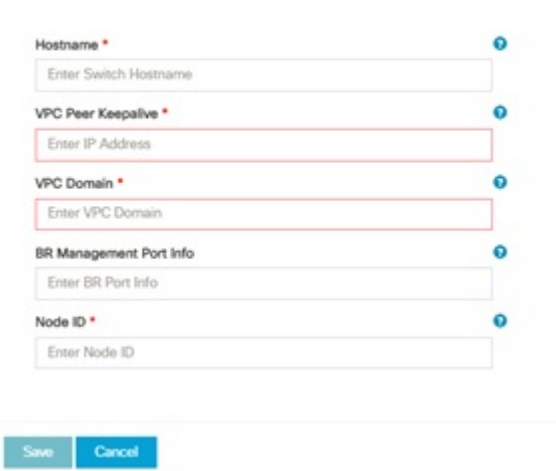
Name	Description	
<p>Configure ToR optional checkbox.</p> <p>Note If UMHC is selected as podtype, configure TOR is not allowed.</p>	<p>Enabling this checkbox, changes the configure ToR section from false to true.</p> <p>Note Configure tor is true then ToR switch info maps in servers</p>	

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"/></div> <div style="border: 1px solid #ccc; padding: 10px;"> <p>Username * ?</p> <input type="text" value="Enter Switch Username"/></div> <div style="border: 1px solid #ccc; padding: 10px;"> <p>Password * ?</p> <input type="text" value="Enter Password"/></div> <div style="border: 1px solid #ccc; padding: 10px;"> <p>SSH-IP * ?</p> <input type="text" value="Enter IP Address"/></div> <div style="border: 1px solid #ccc; padding: 10px;"> <p>SSN Num ?</p> <input type="text" value="Enter SSN Num"/></div> <div style="border: 1px solid #ccc; padding: 10px;"> <p>VPC Peer Keepalive ?</p> <input type="text" value="Enter IP Address"/></div> <div style="border: 1px solid #ccc; padding: 10px;"> <p>VPC Domain ?</p> <input type="text" value="Enter VPC Domain"/></div> <div style="border: 1px solid #ccc; padding: 10px;"> <p>VPC Peer Port Info ?</p> <input type="text" value="Enter VPC Port"/></div> <div style="border: 1px solid #ccc; padding: 10px;"> <p>VPC Peer VLAN Info ?</p> <input type="text" value="Enter VPC VLAN Info"/></div> <div style="border: 1px solid #ccc; padding: 10px;"> <p>BR Management Port Info ?</p> <input type="text" value="Enter BR Port Info"/></div> <div style="border: 1px solid #ccc; padding: 10px;"> <p>BR Management PO Info ?</p> <input type="text" value="Enter BR PO Info"/></div> <div style="text-align: right; margin-top: 10px;"> <input type="button" value="Save"/> <input type="button" value="Cancel"/> </div>														
	<table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 50%;">Name</th> <th style="width: 50%;">Description</th> </tr> </thead> <tbody> <tr> <td>Name</td> <td>ToR switch name.</td> </tr> <tr> <td>Username</td> <td>ToR switch username.</td> </tr> <tr> <td>Password</td> <td>ToR switch password.</td> </tr> <tr> <td>SSH IP</td> <td>ToR switch SSH IP.</td> </tr> <tr> <td>SSN Num</td> <td>ToR switch ssn num.</td> </tr> <tr> <td>VPC Peer Keepalive</td> <td>Peer Management IP. You cannot define if there is no peer.</td> </tr> </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 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 1323"> <tbody> <tr> <td>Host Name</td> <td>ToR switch name.</td> </tr> <tr> <td>VPC Peer keep alive</td> <td>Enter Peer must be exist pair.</td> </tr> <tr> <td>VPC Domain</td> <td>Enter an integer.</td> </tr> <tr> <td>BR management port info</td> <td>Enter BR management port info eg. Eth1/19 ,atleast one pair to be exist.</td> </tr> <tr> <td>Enter Node ID</td> <td>Entered integer must be unique.</td> </tr> </tbody> </table>	Host Name	ToR switch name.	VPC Peer keep alive	Enter Peer must be exist pair.	VPC Domain	Enter an integer.	BR management port info	Enter BR management port info eg. Eth1/19 ,atleast one pair to be exist.	Enter Node ID	Entered integer must be unique.
Host Name	ToR switch name.										
VPC Peer keep alive	Enter Peer must be exist pair.										
VPC Domain	Enter an integer.										
BR management port info	Enter BR management port info eg. Eth1/19 ,atleast one pair to be exist.										
Enter Node ID	Entered integer must be unique.										

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

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

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

Name	Description
	<p>Click (+) to add information for NCS-500 Switch.</p> <p>Switch Details</p> <div style="border: 1px solid #ccc; padding: 10px;"> <p>Hostname * +</p> <input type="text" value="Enter Switch Hostname"/> <p>Username * +</p> <input type="text" value="Enter Switch Username"/> <p>Password * +</p> <input type="text" value="Enter Password"/> <p>SSH-IP * +</p> <input type="text" value="Enter IP Address"/> <p>VPC Peer Keepalive +</p> <input type="text" value="Enter IP Address"/> <p>VPC Peer Port Info +</p> <input type="text" value="Enter VPC Port"/> <p>VPC Peer Port Address +</p> <input type="text" value="Enter VPC Port Address"/> <p>ISIS Loopback Address +</p> <input type="text" value="Enter ISIS Loopback Address"/> <p>ISIS Net Entity Title +</p> <input type="text" value="Enter ISIS net entity title"/> <p>ISIS Prefix SID +</p> <input type="text" value="Enter ISIS Prefix SID"/> <p>BR Management Port Info +</p> <input type="text" value="Enter BR Port Info"/> <p>BR Management PO Info +</p> <input type="text" value="Enter BR PO Info"/> <p style="text-align: right;"> <input type="button" value="Save"/> <input type="button" value="Cancel"/> </p> </div>
Name	Description
Name	Enter the NCS-5500 hostname.
User Name	Enter the NCS-5500 username.
Password	Enter the NCS-5500 password.
SSH IP	Enter the NCS-5500 ssh IP Address.
VPC Peer Link	Peer management IP.

Name	Description	
	Name	Description
	BR Management PO Info	Port channel number for management interface of build node.
	BR Management VLAN info	VLAN id for management interface of build node (access).
	VPC Peer Port Info	Interface for vpc peer ports.
	VPC Peer Port Address	Address for ISIS exchange.
	ISIS Loopback Interface address	ISIS loopback IP Address.
	ISIS net entity title	Enter a String.
	ISIS prefix SID	Integer between 16000 to 1048575. Optional, if TOR-TYPE is NCS-5500. Entry not allowed when ESI_PREFIX is defined.

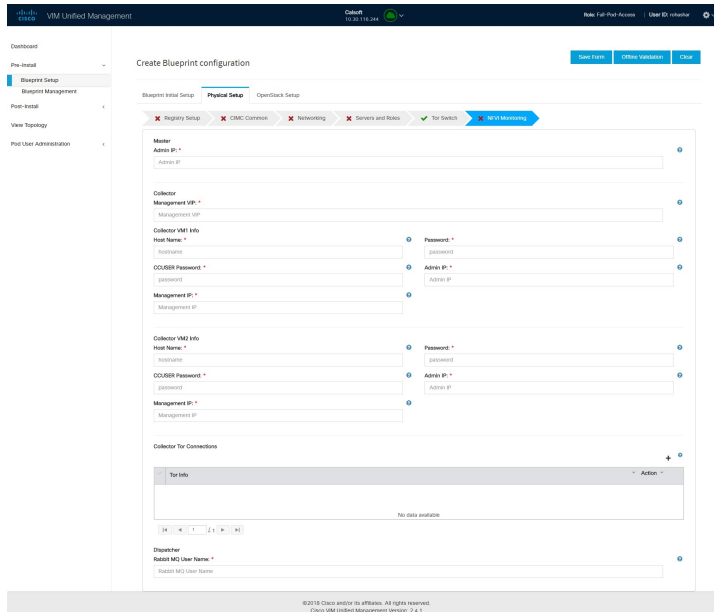
When TOR-TYPE selected as NCS-5500 and 2 NCS-5500 are configured, it is mandatory to configure MULTI_SEGMENT_ROUTING_INFO

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

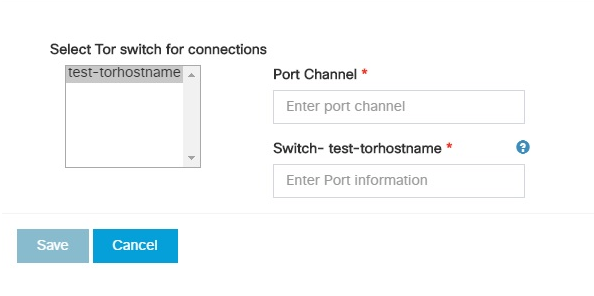
When TOR-TYPE is NCS-5500, you can optionally define ESI_PREFIX field.

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


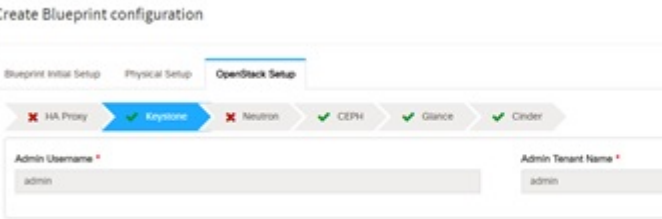
- Click **NFVI Monitoring** checkbox in Blueprint Initial Setup to enable the NFVI Monitoring configuration tab.

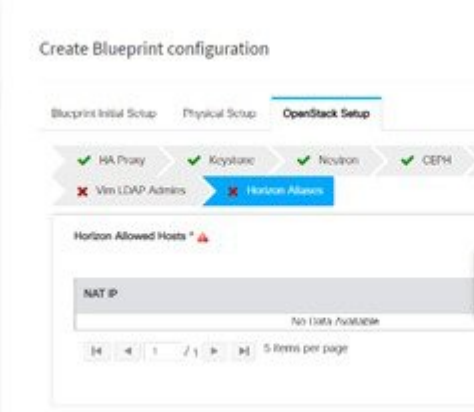


Name	Description
Admin IP	IP Address of Control Center VM
Management VIP	VIP for ceilometer/dispatcher to use, must be unique across VIM Pod
Host Name	Hostname of Collector VM
Password	Password of Collector VM
CCUSER Password	Password of CCUSER
Admin IP	SSH IP of Collector VM
Management IP	Management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

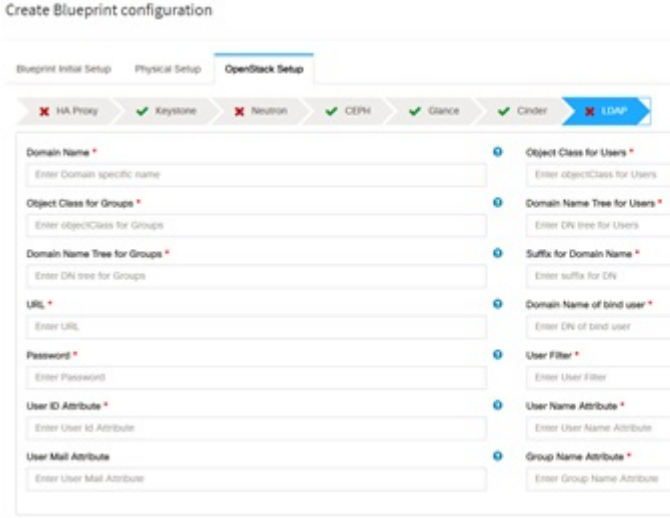
Name	Description				
<p>Collector ToR Connections</p>	<p>1. Click on (+) icon to Add Collector ToR Connections.</p> <p>2. Select the ToR switches from list to add the information.</p> <p>3. It is optional and available for ToR type NCS-5500</p> <p>4. For now, it supports adding only one Collector ToR Connection</p> <p>Add Collector Tor Connections</p>  <table border="1" data-bbox="933 945 1523 1075"> <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>				

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

Name	Description										
<p>HA Proxy</p>	<p>Fill in the following details:</p>  <table border="1" data-bbox="813 806 1489 1220"> <tr> <td>External VIP Address field</td> <td>Enter IP address of External VIP.</td> </tr> <tr> <td>External VIP Address IPv6 field</td> <td>Enter IPv6 address of External VIP.</td> </tr> <tr> <td>Virtual Router ID field</td> <td>Enter the Router ID for HA.</td> </tr> <tr> <td>Internal VIP Address IPv6 field</td> <td>Enter IPv6 address of Internal IP.</td> </tr> <tr> <td>Internal VIP Address field</td> <td>Enter IP address of Internal VIP.</td> </tr> </table>	External VIP Address field	Enter IP address of External VIP.	External VIP Address IPv6 field	Enter IPv6 address of External VIP.	Virtual Router ID field	Enter the Router ID for HA.	Internal VIP Address IPv6 field	Enter IPv6 address of Internal IP.	Internal VIP Address field	Enter IP address of Internal VIP.
External VIP Address field	Enter IP address of External VIP.										
External VIP Address IPv6 field	Enter IPv6 address of External VIP.										
Virtual Router ID field	Enter the Router ID for HA.										
Internal VIP Address IPv6 field	Enter IPv6 address of Internal IP.										
Internal VIP Address field	Enter IP address of Internal VIP.										
<p>Keystone</p>	<p>Mandatory fields are pre-populated.</p>  <table border="1" data-bbox="813 1591 1489 1703"> <tr> <td>Admin User Name</td> <td>admin.</td> </tr> <tr> <td>Admin Tenant Name</td> <td>admin.</td> </tr> </table>	Admin User Name	admin.	Admin Tenant Name	admin.						
Admin User Name	admin.										
Admin Tenant Name	admin.										

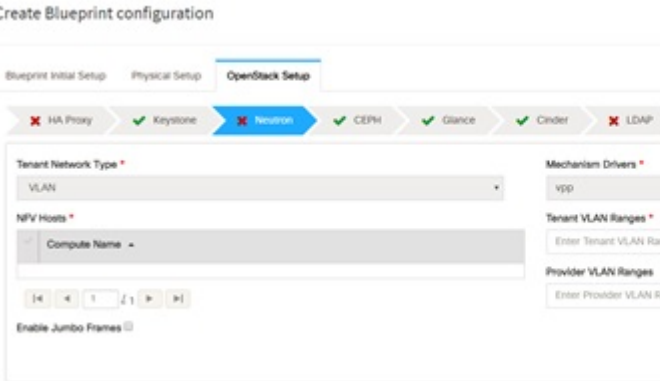
Name	Description
<p>Horizon Aliases</p>	<p>If the external <code>_lb_vip</code> is behind a NAT router or with a DNS alias, provide a list of those addresses.</p>  <p>Horizon Allowed hosts– NAT IP : Uses comma separated list of IP addresses and/or DNS names</p>

Name	Description
LDAP	

Name	Description																										
	<p>LDAP enable checkbox which by default is false, if LDAP is enabled on keystone.</p>  <table border="1" data-bbox="846 934 1534 1848"> <tbody> <tr> <td>Domain Name field</td> <td>Enter name for Domain name.</td> </tr> <tr> <td>Object Class for Users field</td> <td>Enter a string as input.</td> </tr> <tr> <td>Object Class for Groups field</td> <td>Enter a string.</td> </tr> <tr> <td>Domain Name Tree for Users field</td> <td>Enter a string.</td> </tr> <tr> <td>Domain Name Tree for Groups field</td> <td>Enter a string.</td> </tr> <tr> <td>Suffix for Domain Name field</td> <td>Enter a string.</td> </tr> <tr> <td>URL field</td> <td>Enter a URL with ending port number.</td> </tr> <tr> <td>Domain Name of Bind User field</td> <td>Enter a string.</td> </tr> <tr> <td>Password field</td> <td>Enter Password as string format.</td> </tr> <tr> <td>User Filter field</td> <td>Enter filter name as string.</td> </tr> <tr> <td>User ID Attribute field</td> <td>Enter a string.</td> </tr> <tr> <td>User Name Attribute field</td> <td>Enter a string.</td> </tr> <tr> <td>User Mail Attribute field</td> <td>Enter a string.</td> </tr> </tbody> </table>	Domain Name field	Enter name for Domain name.	Object Class for Users field	Enter a string as input.	Object Class for Groups field	Enter a string.	Domain Name Tree for Users field	Enter a string.	Domain Name Tree for Groups field	Enter a string.	Suffix for Domain Name field	Enter a string.	URL field	Enter a URL with ending port number.	Domain Name of Bind User field	Enter a string.	Password field	Enter Password as string format.	User Filter field	Enter filter name as string.	User ID Attribute field	Enter a string.	User Name Attribute field	Enter a string.	User Mail Attribute field	Enter a string.
Domain Name field	Enter name for Domain name.																										
Object Class for Users field	Enter a string as input.																										
Object Class for Groups field	Enter a string.																										
Domain Name Tree for Users field	Enter a string.																										
Domain Name Tree for Groups field	Enter a string.																										
Suffix for Domain Name field	Enter a string.																										
URL field	Enter a URL with ending port number.																										
Domain Name of Bind User field	Enter a string.																										
Password field	Enter Password as string format.																										
User Filter field	Enter filter name as string.																										
User ID Attribute field	Enter a string.																										
User Name Attribute field	Enter a string.																										
User Mail Attribute field	Enter a string.																										

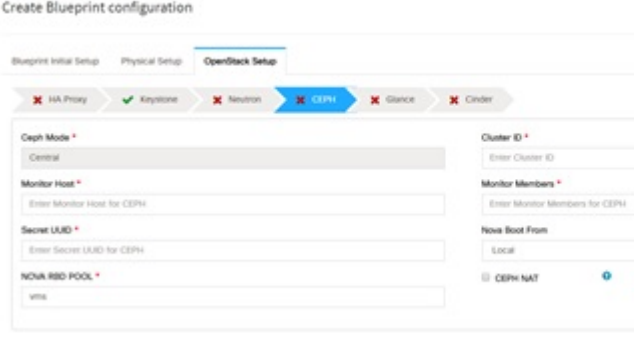

Name	Description		
	<table border="1"><tr><td data-bbox="812 281 1149 331">Group Name Attribute field</td><td data-bbox="1149 281 1477 331">Enter a string.</td></tr></table>	Group Name Attribute field	Enter a string.
Group Name Attribute field	Enter a string.		

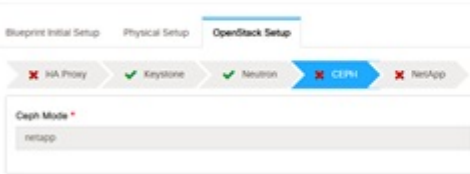

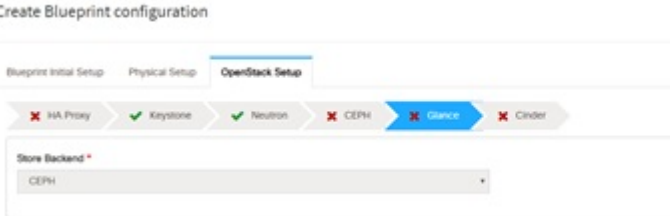
Name	Description
Neutron	

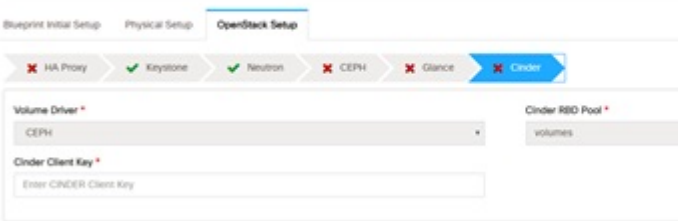
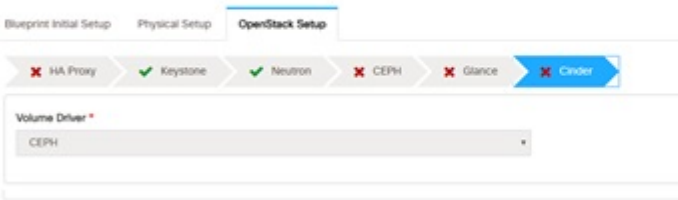
Name	Description
	<p>Neutron fields would change on the basis of Tenant Network Type Selection from Blueprint Initial Setup. Following are the options available for Neutron for OVS/VLAN:</p> 
Tenant Network Type field	Auto Filled based on the Tenant Network Type selected in the Blueprint Initial Setup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

Name	Description
	<p>VSWITCH_WORKER_PROFILE Allowed only for VPP</p> <p>Optionally available options: numa_zero and even</p> <ul style="list-style-type: none"> • numa_zero: Reserved cores will always reside in NUMA node 0. • Even : Reserved cores will be evenly distributed across all NUMA.
	<p>NR_RESERVED_VSWITCH_CORES Allowed only for VPP</p> <p>Number of cores associated to VPP, defaults to 2.</p>
	<p>Enable Jumbo Frames field Enable the checkbox</p>
<p>For Tenant Network Type Linux Bridge everything remains the same but Tenant VLAN Ranges will be removed.</p>	

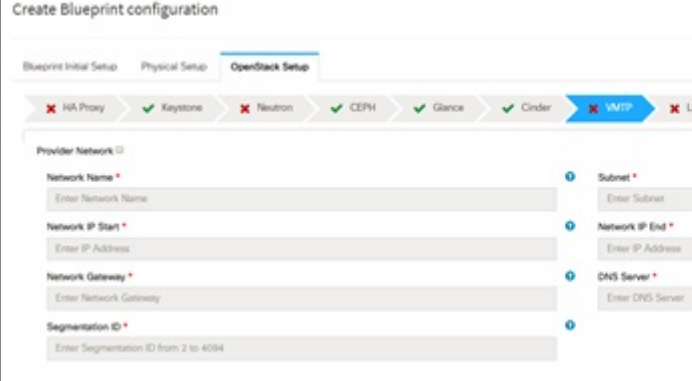

Name	Description
CEPH	

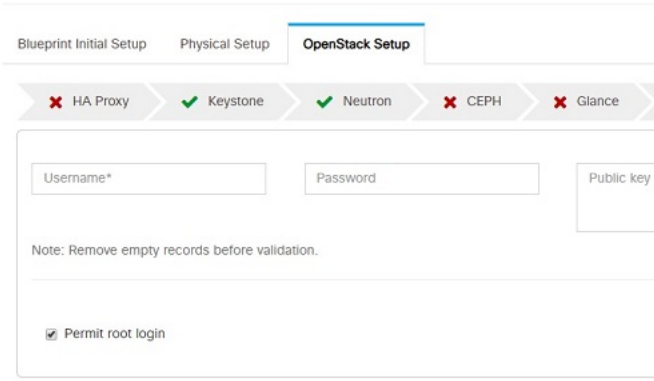
Name	Description																
	<p>1. 1. When Object Storage Backend is selected Central in blueprint initial setup.</p>  <table border="1" data-bbox="893 745 1526 1260"> <tr> <td>CEPH Mode</td> <td>By default Central.</td> </tr> <tr> <td>Cluster ID</td> <td>Enter Cluster ID.</td> </tr> <tr> <td>Monitor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

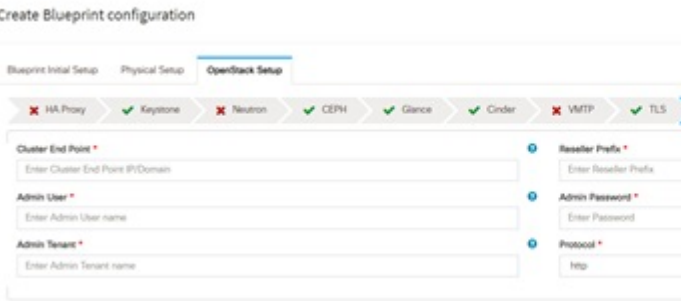
Name	Description
	<p>Create Blueprint configuration</p> 
<p>GLANCE</p>	<p>1. When Object Storage Backend is selected Central in blueprint initial setup.</p>  <p>When Object Storage Backend is selected Dedicated in blueprint initial setup.</p>  <p>Note By default Populated for CEPH Dedicated with Store Backend value as CEPH.</p>

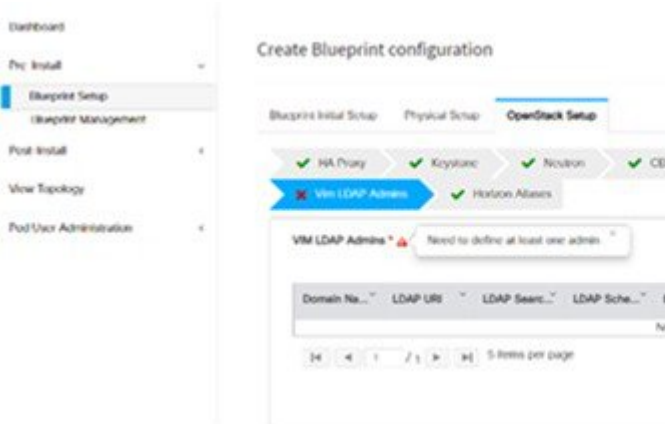
Name	Description
<p>CINDER</p>	<p>By default Populated for CEPH Dedicated with Volume Driver value as CEPH.</p> <p>Create Blueprint configuration</p>  <p>2. When Object Storage Backend is selected Dedicated in blueprint initial setup.</p> <p>Create Blueprint configuration</p>  <p>Note By default Populated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

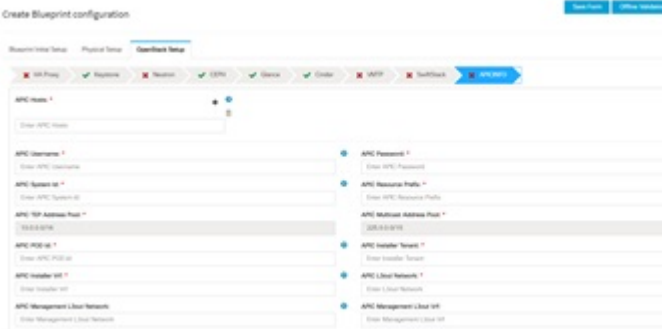
Name	Description
VMTP optional section, this will be visible only if VMTP is selected from Blueprint Initial Setup. For VTS tenant type Provider network is only supported.	


Name	Description		
	<p>Check one of the check boxes to specify a VMTP network:</p> <ul style="list-style-type: none"> • Provider Network • External Network <p>For the Provider Network complete the following:</p> <p>Create Blueprint configuration</p> 		
	<table border="1"> <tr> <td data-bbox="846 919 1188 1010">Network Name field</td> <td data-bbox="1188 919 1534 1010">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="846 1010 1188 1100">Subnet field</td> <td data-bbox="1188 1010 1534 1100">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="846 1100 1188 1190">Network IP Start field</td> <td data-bbox="1188 1100 1534 1190">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="846 1190 1188 1281">Network IP End field</td> <td data-bbox="1188 1190 1534 1281">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="846 1281 1188 1371">Network Gatewayfield</td> <td data-bbox="1188 1281 1534 1371">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="846 1371 1188 1461">DNS Server field</td> <td data-bbox="1188 1371 1534 1461">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="846 1461 1188 1554">Segmentation ID field</td> <td data-bbox="1188 1461 1534 1554">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												
	<table border="1"> <tr> <td data-bbox="813 281 1151 363">Network Name field</td> <td data-bbox="1151 281 1484 363">Enter the name for the external network.</td> </tr> <tr> <td data-bbox="813 363 1151 445">IP Start field</td> <td data-bbox="1151 363 1484 445">Enter the starting floating IPv4 address.</td> </tr> <tr> <td data-bbox="813 445 1151 527">IP End field</td> <td data-bbox="1151 445 1484 527">Enter the ending floating IPv4 address.</td> </tr> <tr> <td data-bbox="813 527 1151 609">Gateway field</td> <td data-bbox="1151 527 1484 609">Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td data-bbox="813 609 1151 711">DNS Server field</td> <td data-bbox="1151 609 1484 711">Enter the DNS server IPv4 address.</td> </tr> <tr> <td data-bbox="813 711 1151 814">Subnet field</td> <td data-bbox="1151 711 1484 814">Enter the Subnet for External Network.</td> </tr> </table>	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.
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"> <tr> <td data-bbox="813 1619 1151 1675">User Name</td> <td data-bbox="1151 1619 1484 1675">Enter username</td> </tr> <tr> <td data-bbox="813 1675 1151 1797">Password</td> <td data-bbox="1151 1675 1484 1797">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.												

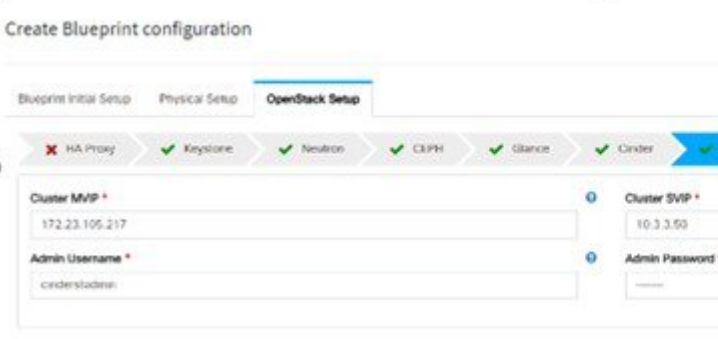
Name	Description												
<p>SwiftStack optional section will be visible only if SwiftStack is selected from Blueprint Initial Setup Page. SwiftStack is only supported with Keystone2. If you select Keystone3, swiftstack will not be available to configure.</p>	<p>Following are the options that needs to be filled for SwiftStack:</p>  <table border="1" data-bbox="857 688 1526 1318"> <tr> <td>Cluster End Point</td> <td>IP address of PAC (proxy-account-container) endpoint.</td> </tr> <tr> <td>Admin User</td> <td>Admin user for swift to authenticate in keystone.</td> </tr> <tr> <td>Admin Tenant</td> <td>The service tenant corresponding to the Account-Container used by Swiftstack.</td> </tr> <tr> <td>Reseller Prefix</td> <td>Reseller_prefix as configured for Keystone Auth,AuthToken support in Swiftstack E.g KEY_</td> </tr> <tr> <td>Admin Password</td> <td>swiftstack_admin_password</td> </tr> <tr> <td>Protocol</td> <td>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 Keystone 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.												
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Reseller Prefix	Reseller_prefix as configured for Keystone Auth,AuthToken support in Swiftstack E.g KEY_												
Admin Password	swiftstack_admin_password												
Protocol	http or https												

Name	Description																
<p>Vim LDAP Admins: Optional entry to support LDAP for admin access to management node. For this feature, TLS has to be enabled for the external api (i.e. external_lb_vip_tls: True).</p>	<p>Following are the values to be filled to add vim LDAP admins:</p> 																
	<table border="1"> <tbody> <tr> <td data-bbox="816 793 1149 919">domain_name</td> <td data-bbox="1149 793 1477 919">Mandatory field. Indicates the domain name to define vim LDAP admins.</td> </tr> <tr> <td data-bbox="816 919 1149 1003">ldap_uri</td> <td data-bbox="1149 919 1477 1003">Mandatory. Ensure that ldap_uri is secured over ldaps.</td> </tr> <tr> <td data-bbox="816 1003 1149 1066">ldap_search_base</td> <td data-bbox="1149 1003 1477 1066">Mandatory. Enter search base.</td> </tr> <tr> <td data-bbox="816 1066 1149 1129">ldap_schema</td> <td data-bbox="1149 1066 1477 1129">Optional. Enter the schema.</td> </tr> <tr> <td data-bbox="816 1129 1149 1213">ldap_user_object_class</td> <td data-bbox="1149 1129 1477 1213">Optional. Indicates the posix account.</td> </tr> <tr> <td data-bbox="816 1213 1149 1276">ldap_user_uid_number</td> <td data-bbox="1149 1213 1477 1276">Optional. Indicates the user ID.</td> </tr> <tr> <td data-bbox="816 1276 1149 1360">ldap_user_gid_number</td> <td data-bbox="1149 1276 1477 1360">Optional. Indicates the group ID.</td> </tr> <tr> <td data-bbox="816 1360 1149 1444">ldap_group_member</td> <td data-bbox="1149 1360 1477 1444">Optional. It is the group member ID.</td> </tr> </tbody> </table>	domain_name	Mandatory field. Indicates the domain name to define vim LDAP admins.	ldap_uri	Mandatory. Ensure that ldap_uri is secured over ldaps.	ldap_search_base	Mandatory. Enter search base.	ldap_schema	Optional. Enter the schema.	ldap_user_object_class	Optional. Indicates the posix account.	ldap_user_uid_number	Optional. Indicates the user ID.	ldap_user_gid_number	Optional. Indicates the group ID.	ldap_group_member	Optional. It is the group member ID.
domain_name	Mandatory field. Indicates the domain name to define vim LDAP admins.																
ldap_uri	Mandatory. Ensure that ldap_uri is secured over ldaps.																
ldap_search_base	Mandatory. Enter search base.																
ldap_schema	Optional. Enter the schema.																
ldap_user_object_class	Optional. Indicates the posix account.																
ldap_user_uid_number	Optional. Indicates the user ID.																
ldap_user_gid_number	Optional. Indicates the group ID.																
ldap_group_member	Optional. It is the group member ID.																


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 1187 724">Name</th> <th data-bbox="1195 667 1515 724">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="857 730 1187 840"> <p>APIC Hosts field</p> </td> <td data-bbox="1195 730 1515 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 1187 898"> <p>apic_username field</p> </td> <td data-bbox="1195 846 1515 898"> <p>Enter a string format.</p> </td> </tr> <tr> <td data-bbox="857 905 1187 957"> <p>apic_password field</p> </td> <td data-bbox="1195 905 1515 957"> <p>Enter Password.</p> </td> </tr> <tr> <td data-bbox="857 963 1187 1045"> <p>apic_system_id field</p> </td> <td data-bbox="1195 963 1515 1045"> <p>Enter input as string. Max length 8.</p> </td> </tr> <tr> <td data-bbox="857 1052 1187 1104"> <p>apic_resource_prefix field</p> </td> <td data-bbox="1195 1052 1515 1104"> <p>Enter string max length 6.</p> </td> </tr> <tr> <td data-bbox="857 1110 1187 1163"> <p>apic_tep_address_pool field</p> </td> <td data-bbox="1195 1110 1515 1163"> <p>Allowed only 10.0.0.0/16</p> </td> </tr> <tr> <td data-bbox="857 1169 1187 1251"> <p>multiclass_address_pool field</p> </td> <td data-bbox="1195 1169 1515 1251"> <p>Allowed only 225.0.0.0/15</p> </td> </tr> <tr> <td data-bbox="857 1257 1187 1310"> <p>apic_pod_id field</p> </td> <td data-bbox="1195 1257 1515 1310"> <p>Enter integer(1- 65535)</p> </td> </tr> <tr> <td data-bbox="857 1316 1187 1369"> <p>apic_installer_tenant field</p> </td> <td data-bbox="1195 1316 1515 1369"> <p>Enter String, max length 32</p> </td> </tr> <tr> <td data-bbox="857 1375 1187 1428"> <p>apic_installer_vrf field</p> </td> <td data-bbox="1195 1375 1515 1428"> <p>Enter String, max length 32</p> </td> </tr> <tr> <td data-bbox="857 1434 1187 1486"> <p>api_l3out_network field</p> </td> <td data-bbox="1195 1434 1515 1486"> <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 field</p>	<p>Enter Password.</p>	<p>apic_system_id field</p>	<p>Enter input as string. Max length 8.</p>	<p>apic_resource_prefix field</p>	<p>Enter string max length 6.</p>	<p>apic_tep_address_pool field</p>	<p>Allowed only 10.0.0.0/16</p>	<p>multiclass_address_pool field</p>	<p>Allowed only 225.0.0.0/15</p>	<p>apic_pod_id field</p>	<p>Enter integer(1- 65535)</p>	<p>apic_installer_tenant field</p>	<p>Enter String, max length 32</p>	<p>apic_installer_vrf field</p>	<p>Enter String, max length 32</p>	<p>api_l3out_network field</p>	<p>Enter String, max length 32</p>
Name	Description																								
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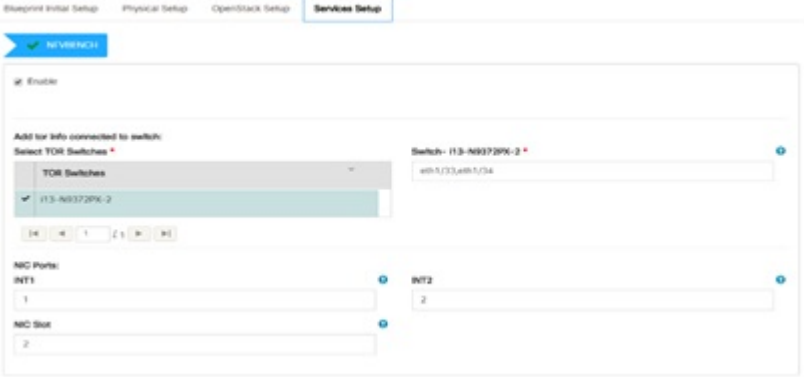
Name	Description														
<p>VTS tab is available in Openstack setup, when Tenant Type is VTS/VLAN selected.</p> <p>If vts day0 is enabled then SSH username and SSH password is mandatory.</p> <p>If SSH_username is input present then SSH password is mandatory vice-versa</p>	 <table border="1" data-bbox="820 556 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
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														

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
NFVBENCH	<p>NFVBENCH enable checkbox by default is false.</p> <p>Add ToR information connect to Switch:</p>  <ul style="list-style-type: none"> • Select a TOR Switch and enter the Switch name. • Enter the port number. For example, eth1/5 . VTEP VLANS (mandatory and needed only for VTS/VXLAN). Enter 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>
ENABLE_ESC_PRIV	Enable the checkbox to set it as True. By default it is False .

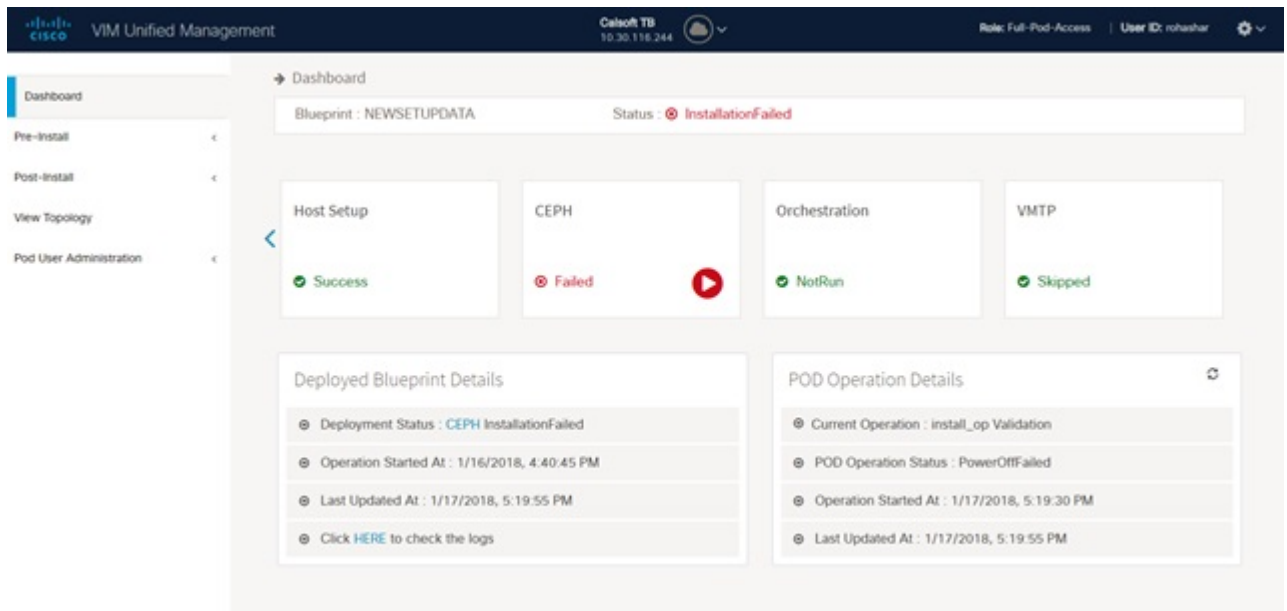
Step 5 Click **Offline validation** button to initiate an offline validation of the Blueprint.

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

Redeploy Multiple Install Stages during Cisco VIM Installation using Unified Management

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

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



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

Confirm

Do you want to Deploy the 'NEWSETUPDATA' Blueprint?

Note:
Stages which are successfully installed will be disabled for selection.

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

Step 3 Select the stages to be installed.

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

Downloading Blueprint

Before you begin

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

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

Validating Blueprint

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

What to do next

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

Managing Post Install Features

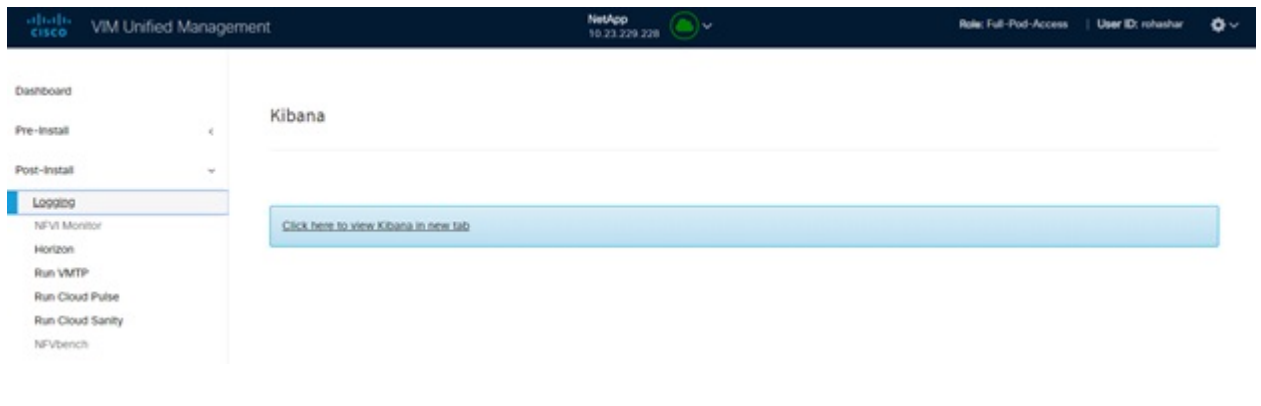
Cisco VIM provides an orchestration that helps in lifecycle management of a cloud. VIM is responsible for pod management activities which includes fixing both hardware and software issues with one-touch automation. VIM Unified Management provides the visualization of the stated goal. As a result, it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

Monitoring the Pod

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

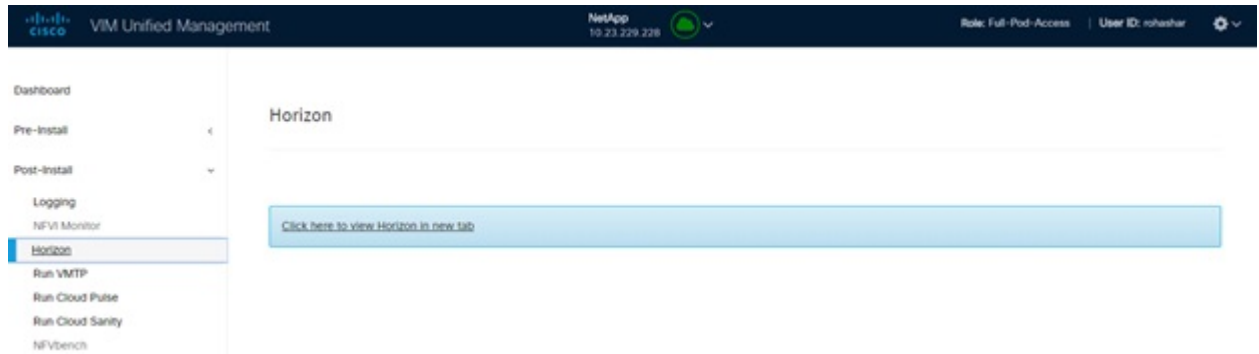
To cross launch Kibana, complete the following instructions:

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



Cross Launching Horizon

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



-
- Step 1** In the navigation pane, click **Post-Install > Horizon**.
- Step 2** Click the link **Click here to view Horizon logs in new tab**. You will be redirected to Horizon landing page in a new tab.
- Step 3** Enter the ADMIN_USER_PASSWORD obtained from /root/installer-`<tagid>/openstack-configs/secrets.yaml` in the management node.
-

NFVI Monitoring

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

- Step 1** In the navigation pane, click **Post-Install > NFVI Monitoring**.
- Step 2** Click the link **Click here to view NFVI monitoring**.
You will be redirected to NFVI Monitoring page.
-

Run VMTP

Run VMTP is divided in two sections:

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



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

Run CloudPulse

In VIM 2.0 and later, we provide an integrated tool, called Cloud Pulse, that periodically checks the cloud services endpoint. The results of these tests are reflected under the Cloud Pulse link. Also, you can run these API endpoint tests on demand, and fetch the result of these tests by refreshing the table.

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

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

Following are the tests which are supported in CloudPulse:

Endpoint tests include

- cinder_endpoint
- glance_endpoint
- keystone_endpoint
- nova_endpoint
- neutron_endpoint

Operator tests include

- ceph_check
- docker_check
- galera_check
- node_check
- rabbitmq_check

CloudPulse

Cloudpulse Monitoring for : **Fixadent-BP**

cinder_endpoint

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

10 items per page

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

Run Cloud Sanity Test

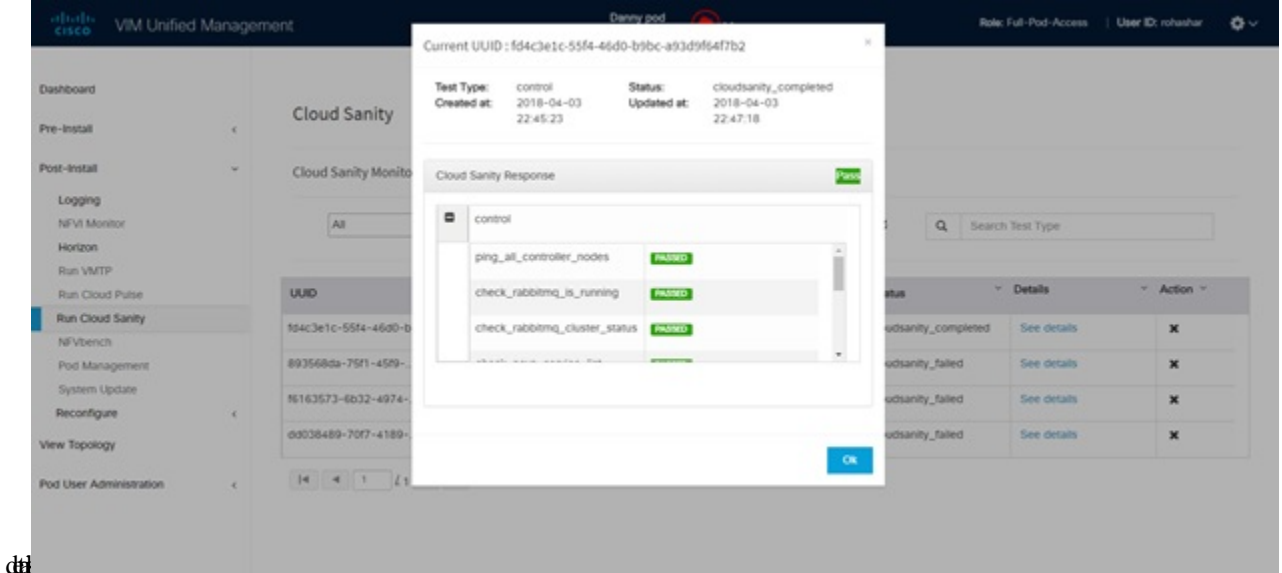
You can use the cloud sanity tool to test the Cisco NFVI pod and cloud infrastructure (host connectivity, basic mraidb, rabbit, ceph cluster check, and RAID disks).

Following are the test available to run from Unified Management.

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

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

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



Run NFV Bench

You can **Run NFV Bench** for **B** and **C** series Pod, through Cisco VIM Unified Management. On a pod running with CVIM, choose a *NFVbench* link on the NAV-Menu.

You can run either fixed rate test or NDR/PDR test. As the settings and results for the test types differ, the options to run these tests are presented in two tabs, with its own settings and results. To run a particular test, you can either select a particular hypervisor from the available list or allow the system to select any hypervisor.

NDR/PDR Test

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

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

Reconfiguring CIMC Password Through Unified Management

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

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

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

Before you begin

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



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

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

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

Step 3 Click **Reconfigure CIMC Password**.

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

Name	Description
<code>CIMC_COMMON</code> old Password	<code>CIMC_COMMON</code> old password field cannot be edited.
<code>CIMC-COMMON</code> new Password	Enter the <code>CIMC-COMMON</code> password. Password has to be alphanumeric according to the password rule.
Click Update	Old <code>CIMC-COMMON</code> password can be updated with new <code>CIMC-COMMON</code> password.