



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 40](#)

Blueprints

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

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

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



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

Blueprint Activation

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

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



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

Viewing Blueprint Details

To view blueprint details:

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

Before you begin

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

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

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

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

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

Activating a Blueprint in an Existing Pod with OpenStack Installed

Before you begin

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

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

Step 2 Click **Register Management Node**.

Step 3 Enter the following details:

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

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

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

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

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

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

Blueprint Management



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

Blueprints Management

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

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

Blueprint Management table provides the following information:

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

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



Note No two blueprints can have the same Blueprint name.

Modified Date: This shows when blueprint was last modified.

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

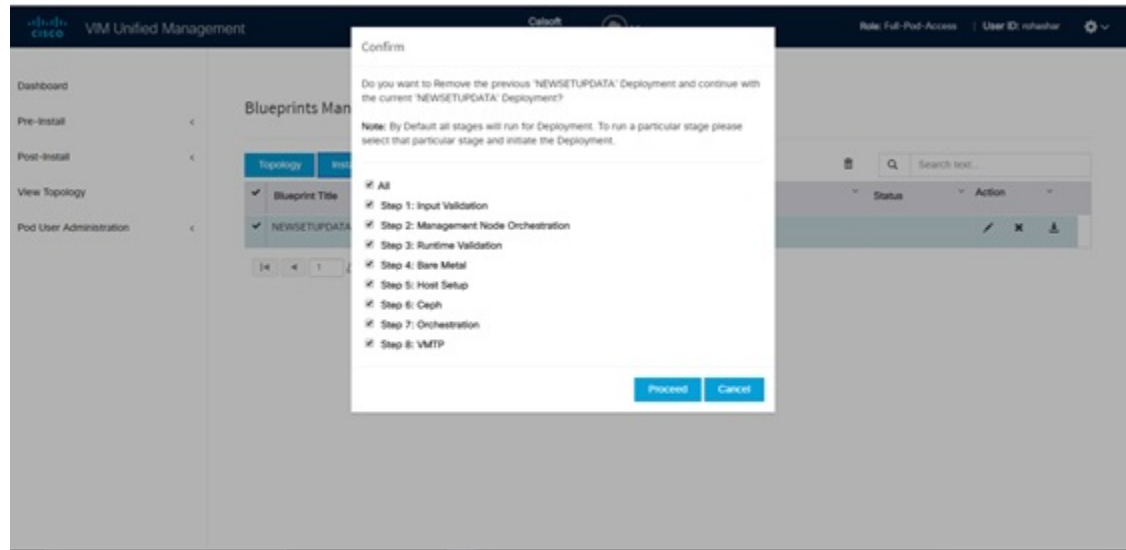
- Valid: Blueprint that is saved after offline validation success.
- Invalid: Blueprint that is saved after Offline Validation failure.
- Inprogress: Blueprint that is saved without running Offline Validation.
- Deployed: Blueprint that is used to bring up cloud without failures.
- Installing: Blueprint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

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

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

Topology

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



Install Button

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

Remove Button

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

Edit, Remove, and Download Blueprint

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

Following are the ways to deploy a Blueprint:

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

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



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

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



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

Table 1:

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

Creating a Blueprint for B-Series Server Platform

Typically, you create the blueprint when you create the Cisco VIM pod. Follow the instructions below to create an additional blueprint for a pod that uses B-Series servers.

Before you begin

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

Step 1

Log-in to Cisco VIM Insight.

Step 2

In the **Navigation** pane, expand the **Pre-Install Section**.

Step 3

Click **Blueprint Setup**.

Step 4

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

Name	Description
Blueprint Name field	Enter the name for the blueprint configuration.
Platform Type drop-down list	Choose one of the following platform types: <ul style="list-style-type: none"> • B-Series (By Default) • C-Series
Tenant Network drop-down list	Choose one of the following tenant network types: <ul style="list-style-type: none"> • Linux Bridge/VXLAN • OVS/VLAN
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)
Pod Type drop-down list	Fullon (By default).
Optional Features and Services checkbox	Syslog Export Settings, Swiftstack, Nfvbench, VMTP, LDAP, Pod Name, TOR Switch Information, TLS, Heat, Vim Admins, Auto Backup, NFVI Monitoring, Install Mode, Keystone v3, Enable Esc Priv. If any one is selected, the corresponding section is visible in various Blueprint sections. By default all options are disabled.
Import Existing YAML file field	If you have an existing B Series YAML file you can use this feature to upload the file. Insight will automatically fill in the fields and if any mandatory fields are missed then the respective section will be highlighted.

Step 5

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

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

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

Step 6

Click **UCSM Common** tab and fill the following fields:

Name	Description
User name disabled field	By default 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 list	Choose one of the following types: <ul style="list-style-type: none"> • NFVI (Default) • Media
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/VLA.
Enable QoS Policy optional checkbox	Visible only when UCSM Plugin is enabled. If UCSM Plugin is disabled then this option will be set to False.
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 like Add, Delete, Edit and Multiple Delete.

Step 7

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

Name	Description
Domain Name field	Enter the domain name (Mandatory).
HTTP Proxy Server field	If your configuration uses an HTTP proxy server, enter the IP address of the server.
HTTPS Proxy Server field	If your configuration uses an HTTPS proxy server, enter the IP address of the server.

Name	Description
IP Tables on Management Pods	
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
Network table	

Name	Description												
	<p>Network table is pre-populated with segments. To add Networks you can either clear all the table using Delete all or click Edit icon for each segment and fill in the details.</p> <p>You can add, edit, or delete network information in the table.</p> <ul style="list-style-type: none"> • Click Add to enter new entries (networks) to the table. • Specify the following fields in the Edit Entry to Networks dialog: <table border="1" data-bbox="911 653 1528 1839"> <tr> <td data-bbox="911 653 1219 806">VALN field</td> <td data-bbox="1219 653 1528 806">Enter the VLAN ID. For Segment - Provider, the VLAN ID value is always none.</td> </tr> <tr> <td data-bbox="911 806 1219 1430">Segment drop-down list</td> <td data-bbox="1219 806 1528 1430"> You can select any of one segment from dropdown list <ul style="list-style-type: none"> • API • Management Provision • Tenant • CIMC • Storage • External • Provider (optional) <p>Note Depending upon the segment not all entries listed below are needed</p> </td> </tr> <tr> <td data-bbox="911 1430 1219 1518">Subnet field</td> <td data-bbox="1219 1430 1528 1518">Enter the IPv4 address for the subnet.</td> </tr> <tr> <td data-bbox="911 1518 1219 1671">IPv6 Subnet field</td> <td data-bbox="1219 1518 1528 1671">Enter IPv6 Subnet Address. This field will be available only for Management Provision and API .</td> </tr> <tr> <td data-bbox="911 1671 1219 1766">Gateway field</td> <td data-bbox="1219 1671 1528 1766">Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td data-bbox="911 1766 1219 1839">IPv6 Gateway field</td> <td data-bbox="1219 1766 1528 1839">Enter IPv6 gateway. This field is only available for the</td> </tr> </table>	VALN field	Enter the VLAN ID. For Segment - Provider, the VLAN ID value is always none .	Segment drop-down list	You can select any of one segment from dropdown list <ul style="list-style-type: none"> • API • Management Provision • Tenant • CIMC • Storage • External • Provider (optional) <p>Note Depending upon the segment not all entries listed below are needed</p>	Subnet field	Enter the IPv4 address for the subnet.	IPv6 Subnet field	Enter IPv6 Subnet Address. This field will be available only for Management Provision and API .	Gateway field	Enter the IPv4 address for the Gateway.	IPv6 Gateway field	Enter IPv6 gateway. This field is only available for the
VALN field	Enter the VLAN ID. For Segment - Provider, the VLAN ID value is always none .												
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Gateway field	Enter the IPv4 address for the Gateway.												
IPv6 Gateway field	Enter IPv6 gateway. This field is only available for the												

Name	Description	
		Management Provision and API .
	Pool field	Pool can be defined with single IP, range of IP or discontinuous pool. Enter the pool information in the required format: Single IP: Example: 10.30.118.101 Range of IP: Example: 10.30.118.98 to 10.30.118.105 Discontinuous IP: Example: 10.30.118.101, 10.30.118.98 to 10.30.118.105
	IPv6 Pool field	Enter the pool information in the required format. For Example: 10.1.15-10.1.1.10,10.2.15-10.2.1.10 This field is available only for Management Provision.
Click Save .		

Step 8

On the **Servers and Roles** page of the **Cisco VIM Suite** wizard, click **Add (+)** to add a new entry in the table, and complete the following fields:

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

Name	Description																	
Cobbler	Enter the Cobbler details in the following fields:																	
	<table border="1"> <thead> <tr> <th data-bbox="909 344 1213 386">Name</th> <th data-bbox="1219 344 1523 386">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="909 386 1219 596"> Cobbler Timeout field </td> <td data-bbox="1219 386 1523 596"> The default value is 45 min. This is an optional parameter. Timeout is displayed in minutes, and its value ranges from 30 to 120. </td> </tr> <tr> <td data-bbox="909 596 1219 684"> Block Storage Kickstart field </td> <td data-bbox="1219 596 1523 684"> Kickstart file for Storage Node. </td> </tr> <tr> <td data-bbox="909 684 1219 894"> Admin Password Hash field </td> <td data-bbox="1219 684 1523 894"> Enter the Admin Password. Password should be Alphanumeric. Password should contain minimum 8 characters and maximum of 32 characters. </td> </tr> <tr> <td data-bbox="909 894 1219 982"> Cobbler Username field </td> <td data-bbox="1219 894 1523 982"> Enter the cobbler username to access the cobbler server. </td> </tr> <tr> <td data-bbox="909 982 1219 1071"> Control Kickstart field </td> <td data-bbox="1219 982 1523 1071"> Kickstart file for Control Node. </td> </tr> <tr> <td data-bbox="909 1071 1219 1159"> Compute Kickstart field </td> <td data-bbox="1219 1071 1523 1159"> Kickstart file for Compute Node. </td> </tr> <tr> <td data-bbox="909 1159 1219 1247"> Cobbler Admin Username field </td> <td data-bbox="1219 1159 1523 1247"> Enter the admin username of the Cobbler. </td> </tr> </tbody> </table>	Name	Description	Cobbler Timeout field	The default value is 45 min. This is an optional parameter. Timeout is displayed in minutes, and its value ranges from 30 to 120.	Block Storage Kickstart field	Kickstart file for Storage Node.	Admin Password Hash field	Enter the Admin Password. Password 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																
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Cobbler Admin Username field	Enter the admin username of the Cobbler.																	

Name	Description	
<p>Add Entry to Servers and Roles.</p>	<p>Click Edit or + to add a new server and role to the table.</p>	
	<p>Server Name</p>	<p>Enter a server name.</p>
	<p>Server Type drop-down list.</p>	<p>Choose Blade or Rack from the drop-down list.</p>
	<p>Rack ID field.</p>	<p>The Rack ID for the server.</p>
	<p>Chassis ID field</p>	<p>Enter a Chassis ID.</p>
	<p>If Rack is chosen, the Rack Unit ID field is displayed.</p>	<p>Enter a Rack Unit ID.</p>
	<p>If Blade is chosen, the Blade ID field is displayed.</p>	<p>Enter a Blade ID.</p>
	<p>Select the Role from the drop down list.</p>	<p>If Server type is Blade then Control and Compute. If Rack is selected then Block Storage.</p>
	<p>Management IP field.</p>	<p>It is an optional field but if provided for one server then it is mandatory to provide it for other Servers as well.</p>
<p>Management IPv6 field.</p>	<p>Enter Management Ipv6 address.</p>	
<p>Click Save or Add.</p>	<p>Clicking Save or Add, adds all information for Servers and Roles.</p>	

Step 9

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

Name	Description
<p>Configure ToR optional checkbox .</p>	<p>If you enable this checkbox, the Configure ToR section will change from false to true.</p>

Name	Description	
<p>ToR Switch Information mandatory table if you want to enter ToR information.</p>	Click + to add information for ToR Switch.	
	Name	Description
	Name	ToR switch name.
	Username	ToR switch username.
	Password	ToR switch Password.
	SSH IP	ToR switch SSH IP Address.
	SSN Num	ToR switch ssn num. output of show license host-id.
	VPC Peer Keepalive	Peer Management IP. You need not define if there is no peer as it is optional but it will become mandatory when the ToR is in VPC.
	VPC Domain	Need not define if there is no peer.
	VPC Peer port	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.	
On clicking Save , Add ToR Info connected to Fabric field will be visible.	Port Channel field.	Enter the port channel input.
	Switch Name field.	Enter the switch name.

Step 10 Click **OpenStack Setup** tab to advance to the **OpenStack Setup** Configuration page.

Step 11 On the **OpenStack Setup** page of the Cisco VIM Insight wizard, complete the following fields:

Name	Description	
HA Proxy	Fill in the mandatory fields:	
	External VIP Address	Enter IP address of External VIP.
	External VIP Address IPv6	Enter IPv6 address of External VIP.
	Virtual Router ID	Enter the Router ID for HA.
	Internal VIP Address IPv6	Enter IPv6 address.
	Internal VIP Address	Enter IP address of Internal VIP.
Keystone	Mandatory fields are pre-populated. This option is always true.	
	Admin Username	admin.
	Admin Tenant Name	admin.

Name	Description																												
<p>LDAP on Keystone.</p> <p>Note: this option is only available with Keystone v3</p>	<p>This is available only when Keystone v3 and LDAP both are enabled under Optional Features and Services in Blueprint Initial Setup.</p> <table border="1" data-bbox="870 407 1529 1390"> <tbody> <tr> <td data-bbox="870 407 1195 457">Domain Name field</td> <td data-bbox="1195 407 1529 457">Enter name for Domain name.</td> </tr> <tr> <td data-bbox="870 466 1195 516">Object Class for Users field</td> <td data-bbox="1195 466 1529 516">Enter a string as input.</td> </tr> <tr> <td data-bbox="870 525 1195 575">Object Class for Groups</td> <td data-bbox="1195 525 1529 575">Enter a string.</td> </tr> <tr> <td data-bbox="870 583 1195 667">Domain Name Tree for Users</td> <td data-bbox="1195 583 1529 667">Enter a string.</td> </tr> <tr> <td data-bbox="870 676 1195 760">Domain Name Tree for Groups field</td> <td data-bbox="1195 676 1529 760">Enter a string.</td> </tr> <tr> <td data-bbox="870 768 1195 852">Suffix for Domain Name field</td> <td data-bbox="1195 768 1529 852">Enter a string.</td> </tr> <tr> <td data-bbox="870 861 1195 932">URL field</td> <td data-bbox="1195 861 1529 932">Enter a URL with ending port number.</td> </tr> <tr> <td data-bbox="870 940 1195 1024">Domain Name for Bind User field</td> <td data-bbox="1195 940 1529 1024">Enter a string.</td> </tr> <tr> <td data-bbox="870 1033 1195 1104">Password field</td> <td data-bbox="1195 1033 1529 1104">Enter Password as string format.</td> </tr> <tr> <td data-bbox="870 1113 1195 1163">User Filter field</td> <td data-bbox="1195 1113 1529 1163">Enter filter name as string.</td> </tr> <tr> <td data-bbox="870 1171 1195 1222">User ID Attribute field</td> <td data-bbox="1195 1171 1529 1222">Enter a string.</td> </tr> <tr> <td data-bbox="870 1230 1195 1281">User Name Attribute field</td> <td data-bbox="1195 1230 1529 1281">Enter a string.</td> </tr> <tr> <td data-bbox="870 1289 1195 1339">User Mail Attributefield</td> <td data-bbox="1195 1289 1529 1339">Enter a string.</td> </tr> <tr> <td data-bbox="870 1348 1195 1398">Group Name Attribute field</td> <td data-bbox="1195 1348 1529 1398">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	Enter a string.	Domain Name Tree for Users	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 for Bind User field	Enter a string.	Password field	Enter Password as string format.	User Filter field	Enter filter name as string.	User ID Attribute field	Enter a string.	User Name Attribute field	Enter a string.	User Mail Attribute field	Enter a string.	Group Name Attribute field	Enter a string.
Domain Name field	Enter name for Domain name.																												
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Group Name Attribute field	Enter a string.																												

Name	Description														
<p>Neutron</p>	<p>Neutron fields change on the basis of Tenant Network Type Selection from Blueprint Initial Setup page.</p> <p>Following are the options available for Neutron for OVS/VLAN:</p> <table border="1" data-bbox="829 451 1487 1486"> <tr> <td data-bbox="829 451 1159 604">Tenant Network Type</td> <td data-bbox="1159 451 1487 604">Auto Filled based on the Tenant Network Type selected in the Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="829 604 1159 724">Mechanism Drivers</td> <td data-bbox="1159 604 1487 724">Auto Filled based on the Tenant Network Type selected in Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="829 724 1159 1129">NFV Hosts</td> <td data-bbox="1159 724 1487 1129"> Auto filled with the Compute you added in Server and Roles. If you select All in this section NFV_HOSTS: ALL will be added to the Blueprint or you can select one particular compute. For Eg: NFV_HOSTS: compute-server-1, compute-server-2. </td> </tr> <tr> <td data-bbox="829 1129 1159 1220">Tenant VLAN Ranges</td> <td data-bbox="1159 1129 1487 1220">List of ranges separated by comma of form start:end.</td> </tr> <tr> <td data-bbox="829 1220 1159 1310">Provider VLAN Ranges</td> <td data-bbox="1159 1220 1487 1310">List of ranges separated by comma of form start:end.</td> </tr> <tr> <td data-bbox="829 1310 1159 1430">VM Hugh Page Size (available for NFV_HOSTS option)</td> <td data-bbox="1159 1310 1487 1430">2M or 1G</td> </tr> <tr> <td data-bbox="829 1430 1159 1486">Enable Jumbo Frames</td> <td data-bbox="1159 1430 1487 1486">Check Box</td> </tr> </table> <p>For Tenant Network Type Linux Bridge, everything will remain the same except Tenant VLAN Ranges which will be removed.</p>	Tenant Network Type	Auto Filled based on the Tenant Network Type selected in the Blueprint Initial Setup page.	Mechanism Drivers	Auto Filled based on the Tenant Network Type selected in Blueprint Initial Setup page.	NFV Hosts	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	List of ranges separated by comma of form start:end.	Provider VLAN Ranges	List of ranges separated by comma of form start:end.	VM Hugh Page Size (available for NFV_HOSTS option)	2M or 1G	Enable Jumbo Frames	Check Box
Tenant Network Type	Auto Filled based on the Tenant Network Type selected in the Blueprint Initial Setup page.														
Mechanism Drivers	Auto Filled based on the Tenant Network Type selected in Blueprint Initial Setup page.														
NFV Hosts	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	List of ranges separated by comma of form start:end.														
Provider VLAN Ranges	List of ranges separated by comma of form start:end.														
VM Hugh Page Size (available for NFV_HOSTS option)	2M or 1G														
Enable Jumbo Frames	Check Box														
<p>CEPH</p>	<p>Ceph has two pre-populated fields</p> <ul style="list-style-type: none"> • CEPH Mode: By default Dedicated. • NOVA Boot from: From the drop-down, choose Ceph or local. 														

Name	Description																										
GLANCE	By default Populated for CEPH Dedicated with Store Backend value as CEPH .																										
CINDER	By default Populated for CEPH Dedicated with Volume Driver value as CEPH .																										
<p>VMTP optional section will only be visible once VMTP is selected from Blueprint Initial Setup.</p>	<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> <table border="1" data-bbox="867 682 1531 1276"> <tr> <td data-bbox="867 682 1195 770">Network Name field.</td> <td data-bbox="1195 682 1531 770">Enter the name for the external network.</td> </tr> <tr> <td data-bbox="867 770 1195 858">IP Start field.</td> <td data-bbox="1195 770 1531 858">Enter the starting floating IPv4 address.</td> </tr> <tr> <td data-bbox="867 858 1195 947">IP End field.</td> <td data-bbox="1195 858 1531 947">Enter the ending floating IPv4 address.</td> </tr> <tr> <td data-bbox="867 947 1195 1035">Gateway field</td> <td data-bbox="1195 947 1531 1035">Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td data-bbox="867 1035 1195 1123">DNS Server field.</td> <td data-bbox="1195 1035 1531 1123">Enter the DNS server IPv4 address.</td> </tr> <tr> <td data-bbox="867 1123 1195 1182">Segmentation ID field.</td> <td data-bbox="1195 1123 1531 1182">Enter the segmentation ID.</td> </tr> <tr> <td data-bbox="867 1182 1195 1276">Subnet</td> <td data-bbox="1195 1182 1531 1276">Enter the Subnet for Provider Network.</td> </tr> </table> <p>For External Network fill in the following details:</p> <table border="1" data-bbox="867 1346 1531 1862"> <tr> <td data-bbox="867 1346 1195 1434">Network Name field.</td> <td data-bbox="1195 1346 1531 1434">Enter the name for the external network.</td> </tr> <tr> <td data-bbox="867 1434 1195 1522">Network IP Start field.</td> <td data-bbox="1195 1434 1531 1522">Enter the starting floating IPv4 address.</td> </tr> <tr> <td data-bbox="867 1522 1195 1610">Network IP End field.</td> <td data-bbox="1195 1522 1531 1610">Enter the ending floating IPv4 address.</td> </tr> <tr> <td data-bbox="867 1610 1195 1698">Network Gateway field</td> <td data-bbox="1195 1610 1531 1698">Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td data-bbox="867 1698 1195 1787">DNS Server field.</td> <td data-bbox="1195 1698 1531 1787">Enter the DNS server IPv4 address.</td> </tr> <tr> <td data-bbox="867 1787 1195 1862">Subnet</td> <td data-bbox="1195 1787 1531 1862">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.	Segmentation ID field.	Enter the segmentation ID.	Subnet	Enter the Subnet for Provider Network.	Network Name field.	Enter the name for the external network.	Network IP Start field.	Enter the starting floating IPv4 address.	Network IP End field.	Enter the ending floating IPv4 address.	Network Gateway field	Enter the IPv4 address for the Gateway.	DNS Server field.	Enter the DNS server IPv4 address.	Subnet	Enter the Subnet for External Network.
Network Name field.	Enter the name for the external network.																										
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Network Gateway field	Enter the IPv4 address for the Gateway.																										
DNS Server field.	Enter the DNS server IPv4 address.																										
Subnet	Enter the Subnet for External Network.																										

Name	Description												
<p>TLS section will be visible 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>SwiftStack optional section will be visible if SwiftStack is selected from Blueprint Initial Setup Page. SwiftStack is only supported with KeyStonev2 . If you select Keystonev3, swiftstack cannot be configured.</p>	<p>Following are the options that needs to be filled for SwiftStack:</p> <table border="1" data-bbox="828 541 1485 1171"> <tbody> <tr> <td data-bbox="828 541 1159 663">Cluster End Point</td> <td data-bbox="1159 541 1485 663">IP address of PAC (proxy-account-container) endpoint.</td> </tr> <tr> <td data-bbox="828 663 1159 751">Admin User</td> <td data-bbox="1159 663 1485 751">Admin user for swift to authenticate in keystone.</td> </tr> <tr> <td data-bbox="828 751 1159 905">Admin Tenant</td> <td data-bbox="1159 751 1485 905">The service tenant corresponding to the Account-Container used by Swiftstack.</td> </tr> <tr> <td data-bbox="828 905 1159 1058">Reseller Prefix</td> <td data-bbox="1159 905 1485 1058">Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_</td> </tr> <tr> <td data-bbox="828 1058 1159 1115">Admin Password</td> <td data-bbox="1159 1058 1485 1115">swiftstack_admin_password</td> </tr> <tr> <td data-bbox="828 1115 1159 1171">Protocol</td> <td data-bbox="1159 1115 1485 1171">http or https</td> </tr> </tbody> </table>	Cluster End Point	IP address of PAC (proxy-account-container) endpoint.	Admin User	Admin user for swift to authenticate in keystone.	Admin Tenant	The service tenant corresponding to the Account-Container used by Swiftstack.	Reseller Prefix	Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_	Admin Password	swiftstack_admin_password	Protocol	http or https
Cluster End Point	IP address of PAC (proxy-account-container) endpoint.												
Admin User	Admin user for swift to authenticate in keystone.												
Admin Tenant	The service tenant corresponding to the Account-Container used by Swiftstack.												
Reseller Prefix	Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_												
Admin Password	swiftstack_admin_password												
Protocol	http or https												
<p>Under the openstack setup tab, the Vim_admins tab will only be visible once Vim_admins is selected from the Optional Features & Services under the Blueprint InitialSetup tab.</p>	<p>Following are the options that needs to be filled for Vim Admins:</p> <ul style="list-style-type: none"> • Username - Text Field • Password - Password field. Admin hash password should always start with \$6 												

Step 12

If **Syslog Export** or **NFVBENCH** is selected in **Blueprint Initial Setup** Page, then **Services Setup** page would 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> <table border="1" data-bbox="867 338 1516 659"> <tr> <td data-bbox="867 338 1198 394">Remote Host</td> <td data-bbox="1198 338 1516 394">Enter Syslog IP Address</td> </tr> <tr> <td data-bbox="867 394 1198 451">Facility</td> <td data-bbox="1198 394 1516 451">Defaults to local5</td> </tr> <tr> <td data-bbox="867 451 1198 508">Severity</td> <td data-bbox="1198 451 1516 508">Defaults to debug</td> </tr> <tr> <td data-bbox="867 508 1198 564">Clients</td> <td data-bbox="1198 508 1516 564">Defaults to ELK</td> </tr> <tr> <td data-bbox="867 564 1198 659">Port</td> <td data-bbox="1198 564 1516 659">Defaults to 514 but can be modified by the User.</td> </tr> </table>	Remote Host	Enter Syslog IP Address	Facility	Defaults to local5	Severity	Defaults to debug	Clients	Defaults to ELK	Port	Defaults to 514 but can be modified by the User.
Remote Host	Enter Syslog IP Address										
Facility	Defaults to local5										
Severity	Defaults to debug										
Clients	Defaults to ELK										
Port	Defaults to 514 but can be modified by the User.										
<p>NFVBENCH</p>	<p>Enable checkbox which by default is False.</p> <p>Add Tor information connected to switch:</p> <ul style="list-style-type: none"> • Select a TOR Switch and Enter the Switch name. • Enter the port number. For example: eth1/5. VTEP VLANS (mandatory and needed only for VXLAN): Enter 2 different VLANs for VLAN1 and VLAN2. • NIC Ports: INT1 and INT2 optional input. Enter the 2 port numbers of the 4-port 10G Intel NIC at the management node used for NFVBench. 										

Step 13 Click **Offline validation** to initiate an offline Blueprint validation.

Step 14 Once the **Offline validation** is successful, **Save** option will be enabled which will redirect you to the **Blueprint Management** page.

Creating a Blueprint for C-Series Server Platform

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

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

Step 2 In the **Navigation** pane, expand the **Pre-Install Section**.

Step 3 Click **Blueprint Setup**.

Step 4 On the **Blueprint Initial Setup** page of the Cisco VIM Insight , complete the following fields:

Name	Description
<p>Blueprint Name field</p>	<p>Enter the name for the blueprint configuration.</p>
<p>Platform Type drop-down list</p>	<ul style="list-style-type: none"> • B-Series (By Default) • C-Series (Select C Series)

Name	Description
Tenant Network drop-down list	Choose one of the following tenant network types: <ul style="list-style-type: none"> • Linux Bridge/VXLAN • OVS/VLAN • VTS/VLAN • VPP/VLAN • ACI/VLAN <p>Note when VTS/VLAN or ACI/VLAN is selected then respective tabs are available on Blueprint setup</p>
Pod Type drop-down list	Choose one of the following pod type : <ul style="list-style-type: none"> • Fullon(By Default) • Micro • UMHC <p>Note UMHC pod type is only supported for OVS/VLAN tenant type.</p> <p>Note Pod type micro is supported for OVS/VLAN, ACI/VLAN,VPP/VLAN.</p>
Ceph Mode drop-down list	Choose one of the following Ceph types: <ul style="list-style-type: none"> • Dedicated (By Default) • Central (Is not supported in production)
Optional Features and Services checkbox.	Swiftstack, LDAP, Syslog Export Settings, Install Mode, TorSwitch Information, TLS, Nfvmon, Pod Name, VMTP, Nfvbench, Auto Backup, Heat, Keystone v3, Enable Esc Priv. <p>If any one is selected, the corresponding section is visible in various Blueprint sections.</p> <p>By default all options are disabled.</p>
Import Existing YAML file	If you have an existing C Series YAML file you can use this feature to upload the file. <p>Insight will automatically fill in the fields and if any mandatory field is missed then would highlight it in the respective section.</p>

Step 5 Click **Physical Setup** to advance to the **Registry Setup** configuration page. Fill in the following details for Registry Setup.

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

Once all Mandatory fields are filled, the **Validation Check Registry** page will indicate a green tick.

Step 6

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).

Step 7

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

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

Name	Description
Networks table	

Name	Description														
	<p>Network table is pre-populated with segments. To add Networks you can either clear all the table using Delete all or click Edit icon for each segment and fill in the details.</p> <p>You can add, edit, or delete network information in the table.</p>														
	<table border="1"> <thead> <tr> <th data-bbox="906 506 1219 554">Name</th> <th data-bbox="1219 506 1534 554">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="906 554 1219 722"> VLAN field </td> <td data-bbox="1219 554 1534 722"> Enter the VLAN ID. For Segment - Provider, the VLAN ID value is always "none". </td> </tr> <tr> <td data-bbox="906 722 1219 1409"> Segment drop-down list </td> <td data-bbox="1219 722 1534 1409"> You can select any one segment from the dropdown list. <ul style="list-style-type: none"> • API • Management/Provision • Tenant • CIMC • Storage • External • Provider (optional) <p>Note Some segments do not need some of the values listed in the preceding points.</p> </td> </tr> <tr> <td data-bbox="906 1409 1219 1499"> Subnet field </td> <td data-bbox="1219 1409 1534 1499"> Enter the IPv4 address for the subnet. </td> </tr> <tr> <td data-bbox="906 1499 1219 1654"> IPv6 Subnet field </td> <td data-bbox="1219 1499 1534 1654"> Enter IPv6 address. This field will be available only for Management provision and API. </td> </tr> <tr> <td data-bbox="906 1654 1219 1738"> Gateway field </td> <td data-bbox="1219 1654 1534 1738"> Enter the IPv4 address for the Gateway. </td> </tr> <tr> <td data-bbox="906 1738 1219 1841"> IPv6 Gateway field </td> <td data-bbox="1219 1738 1534 1841"> Enter IPv6 gateway. This field will only available only for Management </td> </tr> </tbody> </table>	Name	Description	VLAN field	Enter the VLAN ID. For Segment - Provider, the VLAN ID value is always "none".	Segment drop-down list	You can select any one segment from the dropdown list. <ul style="list-style-type: none"> • API • Management/Provision • 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	Enter IPv6 address. This field will be available only for Management provision and API.	Gateway field	Enter the IPv4 address for the Gateway.	IPv6 Gateway field	Enter IPv6 gateway. This field will only available only for Management
Name	Description														
VLAN field	Enter the VLAN ID. For Segment - Provider, the VLAN ID value is always "none".														
Segment drop-down list	You can select any one segment from the dropdown list. <ul style="list-style-type: none"> • API • Management/Provision • 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	Enter IPv6 address. This field will be available only for Management provision and API.														
Gateway field	Enter the IPv4 address for the Gateway.														
IPv6 Gateway field	Enter IPv6 gateway. This field will only available only for Management														

Name	Description	
	Name	Description
		provision and API network.
	Pool field	Enter the pool information in the required format, for example: 10.30.1.1 or 10.30.1.1 to 10.30.1.12
IPv6 Pool field	Enter the pool information in the required format, for example: 10.1.1.5-10.1.1.10,10.2.1.5-10.2.1.10 This field is only available for the Mgmt/Provision.	

Step 8

On the **Servers and Roles** page of the **Cisco VIM Suite** wizard, click **Add (+)** to add a new entry in the table, and complete the following fields:

You can edit or delete existing entries in the **Server and Roles** table.

Name	Description
Server User Name	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>	<p>Click Edit or + to add a new server and role to the table.</p> <table border="1" data-bbox="776 338 1487 1045"> <tr> <td data-bbox="776 338 1133 394">Server Name</td> <td data-bbox="1133 338 1487 394">Enter the server name .</td> </tr> <tr> <td data-bbox="776 394 1133 451">Rack ID field</td> <td data-bbox="1133 394 1487 451">The rack ID for the server.</td> </tr> <tr> <td data-bbox="776 451 1133 508">VIC Slot field</td> <td data-bbox="1133 451 1487 508">Enter a VIC Slot.</td> </tr> <tr> <td data-bbox="776 508 1133 598">Management IPv6field</td> <td data-bbox="1133 508 1487 598">This is optional field. Enter Ipv6 format address</td> </tr> <tr> <td data-bbox="776 598 1133 655">CIMC IP field</td> <td data-bbox="1133 598 1487 655">Enter a IP address.</td> </tr> <tr> <td data-bbox="776 655 1133 711">CIMC Username field</td> <td data-bbox="1133 655 1487 711">Enter a Username.</td> </tr> <tr> <td data-bbox="776 711 1133 768">CIMC Password field</td> <td data-bbox="1133 711 1487 768">Enter a Password for CIMC</td> </tr> <tr> <td data-bbox="776 768 1133 892">Select the Role from the drop down list</td> <td data-bbox="1133 768 1487 892">Choose Control or Compute or Block Storage from the drop-down list.</td> </tr> <tr> <td data-bbox="776 892 1133 1045">Management IP</td> <td data-bbox="1133 892 1487 1045">It is an optional field but if provided for one server then it is mandatory to provide it for other servers.</td> </tr> </table>		Server Name	Enter the server name .	Rack ID field	The rack ID for the server.	VIC Slot field	Enter a VIC Slot.	Management IPv6 field	This is optional field. Enter Ipv6 format address	CIMC IP field	Enter a IP address.	CIMC Username field	Enter a Username.	CIMC Password field	Enter a Password for CIMC	Select the Role from the drop down list	Choose Control or Compute or Block Storage from the drop-down list.	Management IP	It is an optional field but if provided for one server then it is mandatory to provide it for other servers.
Server Name	Enter the server name .																			
Rack ID field	The rack ID for the server.																			
VIC Slot field	Enter a VIC Slot.																			
Management IPv6 field	This is optional field. Enter Ipv6 format address																			
CIMC IP field	Enter a IP address.																			
CIMC Username field	Enter a Username.																			
CIMC Password field	Enter a Password for CIMC																			
Select the Role from the drop down list	Choose Control or Compute or Block Storage from the drop-down list.																			
Management IP	It is an optional field but if provided for one server then it is mandatory to provide it for other servers.																			
<p>Click Save or Add .</p>	<p>On clicking Save or Add all information related to Servers and Roles gets saved.</p>																			
<p>If Configure ToR checkbox is Truewith 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)</p>	<ul style="list-style-type: none"> • Port Channel field • Switch Name field • Switch Port Info field 	<ul style="list-style-type: none"> • Enter the port channel input. • Enter the switch name. • Enter the switch port information. 																		

Name	Description	
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. Switch Name (Mandatory if Configure ToR is true) . This field appears only when Intel NIC support is true, as Auto TOR config is not supported in VIC_NIC combo	<ul style="list-style-type: none"> • Switch Name field • Switch Port Info field 	<ul style="list-style-type: none"> • Enter the switch name. • Enter the switch port information.
Intel SRIOV VFS (valid for Intel NIC testbeds) and can be integer.	For SRIOV support for Intel NIC. By Default, SRIOV support is disabled. To enable, define a value in the range # * 1-32 when INTEL_NIC_SUPPORT is set True (X710 Max VFs = 32) # * 1-63 when CISCO_VIC_INTEL_SRIOV is set True (X520 Max VFs = 63)	
INTEL_SRIOV_PHYS_PORTS (valid for Intel NIC test beds) and can be of value 2 or 4 (default is 2)	In some cases the # of Physical SRIOV port needed is 4; to meet that requirement, define the following: # this is optional, if nothing is defined code will assume it to be 2; the only 2 integer values this parameter # takes is 2 or 4 and is true when INTEL_NIC_SUPPORT is True and INTEL_SRIOV_VFS is valid	
Click Save or Add .	On clicking Save or Add all information related to Servers and Roles gets saved.	

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.

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.

Step 9 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, it becomes a part of the Blueprint.

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

Name	Description																								
<p>TOR Switch Information mandatory table if you want to enter ToR information.</p>	Click + to add information for ToR Switch.																								
	<table border="1"> <thead> <tr> <th data-bbox="776 342 1133 394">Name</th> <th data-bbox="1133 342 1481 394">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="776 394 1133 453">Name</td> <td data-bbox="1133 394 1481 453">ToR Switch Name.</td> </tr> <tr> <td data-bbox="776 453 1133 512">Username</td> <td data-bbox="1133 453 1481 512">TOR switch username</td> </tr> <tr> <td data-bbox="776 512 1133 571">Password</td> <td data-bbox="1133 512 1481 571">ToR switch Password</td> </tr> <tr> <td data-bbox="776 571 1133 630">SSH IP</td> <td data-bbox="1133 571 1481 630">TOR switch ssh ip</td> </tr> <tr> <td data-bbox="776 630 1133 688">SSN Num</td> <td data-bbox="1133 630 1481 688">TOR switch ssn num</td> </tr> <tr> <td data-bbox="776 688 1133 772">VPC Peer Keepalive</td> <td data-bbox="1133 688 1481 772">Peer Management IP. Do not define if there is no peer</td> </tr> <tr> <td data-bbox="776 772 1133 831">VPC Domain</td> <td data-bbox="1133 772 1481 831">Do not define if there is no peer</td> </tr> <tr> <td data-bbox="776 831 1133 890">VPC Peer Port Info</td> <td data-bbox="1133 831 1481 890">Interface for vpc peer ports</td> </tr> <tr> <td data-bbox="776 890 1133 974">VPC Peer VLAN Info</td> <td data-bbox="1133 890 1481 974">vlan ids for vpc peer ports (optional)</td> </tr> <tr> <td data-bbox="776 974 1133 1058">BR Management Port Info</td> <td data-bbox="1133 974 1481 1058">Management interface of build node</td> </tr> <tr> <td data-bbox="776 1058 1133 1192">BR Management PO Info</td> <td data-bbox="1133 1058 1481 1192">Port channel number for management interface of build node</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. Do not define if there is no peer	VPC Domain	Do not 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
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Click Save .																									

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

Name	Description
Configure ToR	Is not checked, as by default ACI will configure the ToRs

	Click + to add information for ToR Switch	
	Name	Description
	Host Name	ToR switch name.
	VPC Peerkeep alive	Peer info must exist in pair.
	VPC Domain	Enter an Integer.
	BR Management Port Info	Enter Br management port info eg. Eth1/19, must have a pair in the peer switch.
	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 Fretta details fill in the NCS-5500 Information table.	Click (+) to add information for Fretta Switch.	
	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.
	BR Management PO Info	Port channel number for management interface of build node.
	BR Management VLAN info	VLAN ID for management interface of build node (access).
	VPC Peer Port Info	Interface for vpc peer ports.
	VPC Peer Port Address	Address for ISIS exchange.
	ISIS Loopback Interface address	ISIS loopback IP Address.
	ISIS net entity title	Enter a String.
ISIS prefix SID	Integer between 16000 to 1048575.	

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

Name	Description
BGP AS Number	Integer between 1 to 65535.
ISIS Area Tag	A valid string.
Loopback Interface name	Loopback Interface name.
API bundle ID	Integer between 1 to 65535.

Name	Description
API bridge domain	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	A valid string (user pre-provisions physical, bundle interface, sub-interface and external BD for external uplink and provides external BD info setup_data).

Step 10 Click **OpenStack Setup** Tab to advance to the **OpenStack Setup** page.

Step 11 In the **OpenStack Setup** page of the Cisco VIM Insight wizard, complete the following fields:

Name	Description												
Neutron	Neutron fields would change on the basis of Tenant Network Type Selection from Blueprint Initial Setup . Following are the options available for Neutron:												
	<table border="1"> <tr> <td>Tenant Network Type</td> <td>Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.</td> </tr> <tr> <td>Mechanism Drivers</td> <td>Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.</td> </tr> <tr> <td>NFV Hosts</td> <td>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 else you can select particular computes as well for eg: NFV_HOSTS: "compute-server-1, compute-server-2"</td> </tr> <tr> <td>Tenant VLAN Ranges</td> <td>Allowed with VTS/VLAN VPP/VLAN, OVS/VLAN, ACI/VLAN</td> </tr> <tr> <td>Enable Jumbo Frames</td> <td>Check Box default is false.</td> </tr> <tr> <td>Huge page size Note : . This is available only when Compute node is present in NFV host</td> <td>The following are the drop-downs: <ul style="list-style-type: none"> • 2M • 1G </td> </tr> </table>	Tenant Network Type	Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.	Mechanism Drivers	Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.	NFV Hosts	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 else you can select particular computes as well for eg: NFV_HOSTS: "compute-server-1, compute-server-2"	Tenant VLAN Ranges	Allowed with VTS/VLAN VPP/VLAN, OVS/VLAN, ACI/VLAN	Enable Jumbo Frames	Check Box default is false.	Huge page size Note : . This is available only when Compute node is present in NFV host	The following are the drop-downs: <ul style="list-style-type: none"> • 2M • 1G
	Tenant Network Type	Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.											
	Mechanism Drivers	Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.											
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	Tenant VLAN Ranges	Allowed with VTS/VLAN VPP/VLAN, OVS/VLAN, ACI/VLAN											
	Enable Jumbo Frames	Check Box default is false.											
Huge page size Note : . This is available only when Compute node is present in NFV host	The following are the drop-downs: <ul style="list-style-type: none"> • 2M • 1G 												
For Tenant Network Type Linux Bridge everything will remain the same but Tenant VLAN Ranges will be removed.													

Name	Description										
CEPH	Ceph has two pre-populated fields <ul style="list-style-type: none"> • CEPH Mode : By default Dedicated. • NOVA Boot from: Drop Down selection. You can choose Ceph or local. 										
GLANCE	By default populated for CEPH Dedicated with Store Backend value as CEPH .										
CINDER	By default Populated for CEPH Dedicated with Volume Driver value as CEPH .										
HA Proxy	Enter the Mandatory fields: <table border="1" data-bbox="834 709 1482 1119"> <tr> <td data-bbox="834 709 1159 793">External VIP Address</td> <td data-bbox="1164 709 1482 793">Enter IP Address of External VIP.</td> </tr> <tr> <td data-bbox="834 800 1159 884">External VIP Address IPv6</td> <td data-bbox="1164 800 1482 884">Enter IP v6 Address of External VIP .</td> </tr> <tr> <td data-bbox="834 890 1159 942">Virtual Router ID</td> <td data-bbox="1164 890 1482 942">Enter the Router ID for HA.</td> </tr> <tr> <td data-bbox="834 949 1159 1033">Internal VIP Address</td> <td data-bbox="1164 949 1482 1033">Enter IP Address of Internal VIP.</td> </tr> <tr> <td data-bbox="834 1039 1159 1123">Internal VIP Address IPv6</td> <td data-bbox="1164 1039 1482 1123">Enter IP v6 Address for Internal VIP.</td> </tr> </table>	External VIP Address	Enter IP Address of External VIP.	External VIP Address IPv6	Enter IP v6 Address of External VIP .	Virtual Router ID	Enter the Router ID for HA.	Internal VIP Address	Enter IP Address of Internal VIP.	Internal VIP Address IPv6	Enter IP v6 Address for Internal VIP.
External VIP Address	Enter IP Address of External VIP.										
External VIP Address IPv6	Enter IP v6 Address of External VIP .										
Virtual Router ID	Enter the Router ID for HA.										
Internal VIP Address	Enter IP Address of Internal VIP.										
Internal VIP Address IPv6	Enter IP v6 Address for Internal VIP.										
Keystone	<table border="1" data-bbox="834 1148 1482 1251"> <tr> <td data-bbox="834 1148 1159 1190">Admin Username</td> <td data-bbox="1164 1148 1482 1190">admin</td> </tr> <tr> <td data-bbox="834 1197 1159 1239">Admin Tenant Name</td> <td data-bbox="1164 1197 1482 1239">admin</td> </tr> </table>	Admin Username	admin	Admin Tenant Name	admin						
Admin Username	admin										
Admin Tenant Name	admin										

Name	Description	
<p>LDAP</p>	<p>This is available only when Keystone v3 and LDAP both are enabled under Optional Features and Services in Blueprint Initial Setup.</p>	
	<p>Domain Name field</p>	<p>Enter name for Domain name.</p>
	<p>Object Class for Users field</p>	<p>Enter a string as input.</p>
	<p>Object Class for Groups</p>	<p>Enter a string.</p>
	<p>Domain Name Tree for Users</p>	<p>Enter a string.</p>
	<p>Domain Name Tree for Groups field</p>	<p>Enter a string.</p>
	<p>Suffix for Domain Name field</p>	<p>Enter a string.</p>
	<p>URL field</p>	<p>Enter a URL with ending port number.</p>
	<p>Domain Name for Bind User field</p>	<p>Enter a string.</p>
	<p>Password field</p>	<p>Enter Password as string format.</p>
	<p>User Filter</p>	<p>Enter filter name as string.</p>
	<p>User ID Attribute</p>	<p>Enter a string.</p>
	<p>User Name Attribute</p>	<p>Enter a string.</p>
	<p>User Mail Attribute</p>	<p>Enter a string.</p>
<p>Group Name Attribute</p>	<p>Enter a string.</p>	

Name	Description																										
<p>VMTP optional section will only be visible once VMTP is selected from Blueprint Initial Setup.</p> <p>Note For VTS, Provider network is only supported</p>	<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> <table border="1" data-bbox="834 506 1485 1094"> <tr> <td data-bbox="834 506 1159 590">Network Name field</td> <td data-bbox="1164 506 1485 590">Enter the name for the external network.</td> </tr> <tr> <td data-bbox="834 596 1159 680">IP Start field</td> <td data-bbox="1164 596 1485 680">Enter the starting floating IPv4 address.</td> </tr> <tr> <td data-bbox="834 686 1159 770">IP End field</td> <td data-bbox="1164 686 1485 770">Enter the ending floating IPv4 address.</td> </tr> <tr> <td data-bbox="834 777 1159 861">Gateway field</td> <td data-bbox="1164 777 1485 861">Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td data-bbox="834 867 1159 951">DNS Server field</td> <td data-bbox="1164 867 1485 951">Enter the DNS server IPv4 address.</td> </tr> <tr> <td data-bbox="834 957 1159 1041">Segmentation ID field</td> <td data-bbox="1164 957 1485 1041">Enter the segmentation ID.</td> </tr> <tr> <td data-bbox="834 1047 1159 1094">Subnet</td> <td data-bbox="1164 1047 1485 1094">Enter the Subnet for Provider Network.</td> </tr> </table> <p>For External Network fill in the following details:</p> <table border="1" data-bbox="834 1157 1485 1688"> <tr> <td data-bbox="834 1157 1159 1241">Network Name field</td> <td data-bbox="1164 1157 1485 1241">Enter the name for the external network.</td> </tr> <tr> <td data-bbox="834 1247 1159 1331">Network IP Start field</td> <td data-bbox="1164 1247 1485 1331">Enter the starting floating IPv4 address.</td> </tr> <tr> <td data-bbox="834 1337 1159 1421">Network IP End field</td> <td data-bbox="1164 1337 1485 1421">Enter the ending floating IPv4 address.</td> </tr> <tr> <td data-bbox="834 1428 1159 1512">Network Gateway field</td> <td data-bbox="1164 1428 1485 1512">Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td data-bbox="834 1518 1159 1602">DNS Server field</td> <td data-bbox="1164 1518 1485 1602">Enter the DNS server IPv4 address.</td> </tr> <tr> <td data-bbox="834 1608 1159 1688">Subnet</td> <td data-bbox="1164 1608 1485 1688">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.	Segmentation ID field	Enter the segmentation ID.	Subnet	Enter the Subnet for Provider Network.	Network Name field	Enter the name for the external network.	Network IP Start field	Enter the starting floating IPv4 address.	Network IP End field	Enter the ending floating IPv4 address.	Network Gateway field	Enter the IPv4 address for the Gateway.	DNS Server field	Enter the DNS server IPv4 address.	Subnet	Enter the Subnet for External Network.
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Subnet	Enter the Subnet for External Network.																										

Name	Description												
<p>TLS This optional section will only be visible once TLS is selected from Blueprint Initial Setup Page.</p>	<p>TLS has two options:</p> <ul style="list-style-type: none"> • External LB VIP FQDN - Text Field. • External LB VIP TLS - True/False. By default this option is false. 												
<p>SwiftStack optional section will be visible once SwiftStack is selected from Blueprint Initial Setup Page. SwiftStack is only supported with KeyStonev2 . If you select Keystonev3, swiftstack will not be available for configuration.</p>	<p>Following are the options that needs to be filled for SwiftStack:</p> <table border="1" data-bbox="873 541 1523 1155"> <tbody> <tr> <td data-bbox="873 541 1198 655">Cluster End Point</td> <td data-bbox="1198 541 1523 655">IP address of PAC (proxy-account-container) endpoint.</td> </tr> <tr> <td data-bbox="873 655 1198 739">Admin User</td> <td data-bbox="1198 655 1523 739">Admin user for swift to authenticate in keystone.</td> </tr> <tr> <td data-bbox="873 739 1198 886">Admin Tenant</td> <td data-bbox="1198 739 1523 886">The service tenant corresponding to the Account-Container used by Swiftstack.</td> </tr> <tr> <td data-bbox="873 886 1198 1075">Reseller Prefix</td> <td data-bbox="1198 886 1523 1075">Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_</td> </tr> <tr> <td data-bbox="873 1075 1198 1155">Admin Password</td> <td data-bbox="1198 1075 1523 1155">swiftstack_admin_password</td> </tr> <tr> <td data-bbox="873 1155 1198 1165">Protocol</td> <td data-bbox="1198 1155 1523 1165">http or https. Protocol that swiftstack is running on top</td> </tr> </tbody> </table>	Cluster End Point	IP address of PAC (proxy-account-container) endpoint.	Admin User	Admin user for swift to authenticate in keystone.	Admin Tenant	The service tenant corresponding to the Account-Container used by Swiftstack.	Reseller Prefix	Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_	Admin Password	swiftstack_admin_password	Protocol	http or https. Protocol that swiftstack is running on top
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 Keysone Auth,AuthToken support in Swiftstack E.g KEY_												
Admin Password	swiftstack_admin_password												
Protocol	http or https. Protocol that swiftstack is running on top												

Note When tenant type ACI/VLAN is selected then ACI INFO tab is available in blueprint setup.

Note When ACI/VLAN is selected then Tor switch from initial setup is mandatory.

Name	Description
APIC Hosts field	Enter host input. Example: <ip1 host1>:[port] . max of 3, min of 1, not 2;
apic_username field	Enter a string format.
apic_password filed	Enter Password.
apic_system_id field	Enter input as string. Max length 8.
apic_resource_prefix field	Enter string max length 6.
apic_tep_address_pool field	Allowed only 10.0.0.0/16
multiclass_address_pool field	Allowed only 225.0.0.0/15
apic_pod_id field	Enter integer(1- 65535)

Name	Description
apic_installer_tenant field	Enter String, max length 32
apic_installer_vrf field	Enter String, max length 32
api_l3out_network field	Enter String, max length 32

Note When Tenant Type is VTS/VLAN then VTS tab is available in blueprint setup.

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

Note If vts day0 is enabled then SSH username and SSH password is mandatory.

If SSH_username is input present then SSH password is mandatory vice-versa

Under the openstack setup tab, the Vim_admins tab will only be visible once Vim_admins is selected from the Optional Features & Services under the Blueprint InitialSetup tab.	<p>Following are the options that needs to be filled for Vim Admins:</p> <ul style="list-style-type: none"> • Username - Text Field • Password - Password field. Admin hash password should always start with \$6
--	---

Step 12

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

Name	Description	
Syslog Export	Following are the options for Syslog Settings:	
	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.

NFVBENCH	<p>Enable checkbox which by default is false.</p> <p>Add ToR info connected to switch:</p> <ul style="list-style-type: none"> • Select a TOR Switch. Switch- (switch name) • Enter the port number. For Example: eth1/5 . VTEP VLANS (mandatory and needed only for VTS/VXLAN,); Enter 2 different VLANs for VLAN1 and VLAN2. • NIC Ports: INT1 & INT2 Optional input, enter the 2 port numbers of the 4-port 10G Intel NIC at the management node used for NFVBench.
ENABLE_ESC_PRIV	<p>Enable the checkbox to set it as True. By default it is False.</p>

Step 13 Click **Offline validation** button to initiate an offline validation of the Blueprint.

Step 14 Once the **Offline validation** is successful, **Save** option will be enabled for you which when clicked would redirect you to the **Blueprint Management Page**.

Downloading Blueprint

Before you begin

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

Step 1 Log in to **CISCO VIM Insight**.

Step 2 In the navigation pane, expand the **Pre-Install Section**.

Step 3 Click **Blueprint Management**.

Step 4 Go-to **Download** for any Blueprint under Action title. (**Download Button** > **Downward Arrow** (with tooltip Preview & Download YAML).

Step 5 Click the **Download** icon.
A pop to view the Blueprint in the YAML format is displayed.

Step 6 Click the **Download** button at the bottom left of the pop-up window.
YAML is saved locally with the same name of the Blueprint.

Validating Blueprint

Step 1 Log in to **CISCO VIM Insight**.

Step 2 In the **Navigation** pane, expand the **Pre-Install Section**.

- Step 3** Click **Blueprint Creation**.
- Step 4** Upload an existing YAML, or create a **New Blueprint**.
Fill all the mandatory fields so that all Red Cross changes to **Green Tick**.
- Step 5** Enter the name of the Blueprint.
- Step 6** Click **Offline Validation**.
Only, if the Validation is successful, the Insight allows you to save the blueprint.

What to do next

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

Managing Post Install Features

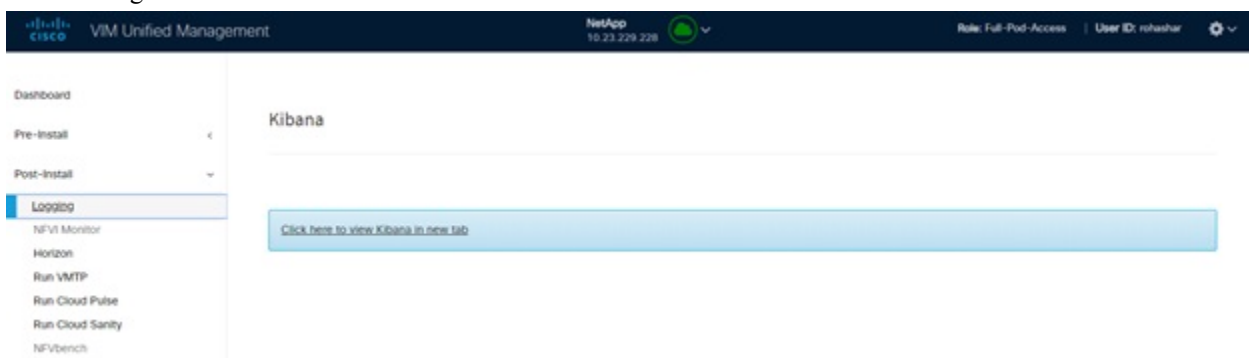
Cisco VIM provides an orchestration that helps in lifecycle management of a cloud. VIM is responsible for pod management activities which includes fixing both hardware and software issues with one-touch automation. VIM Insight provides the visualization of the stated goal. As a result, it integrates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

Monitoring the Pod

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

To cross launch Kibana, complete the following instructions:

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



Cross Launching Horizon

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



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

Step 2 Click the link **Click here to view Horizon logs in new tab**. You will be redirected to Horizon landing page in a new tab.

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

NFVI Monitoring

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

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

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

You will be redirected to NFVI Monitoring page.

Run VMTP

Run VMTP is divided in two sections:

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



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

Run CloudPulse

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

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

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

Following are the tests which are supported in CloudPulse:

Endpoint tests include

- cinder_endpoint
- glance_endpoint
- keystone_endpoint
- nova_endpoint
- neutron_endpoint

Operator tests include

- ceph_check
- docker_check
- galera_check
- node_check
- rabbitmq_check

CloudPulse

Cloudpulse Monitoring for: **Fixadent-BP**

cinder_endpoint Run Tests Search text...

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

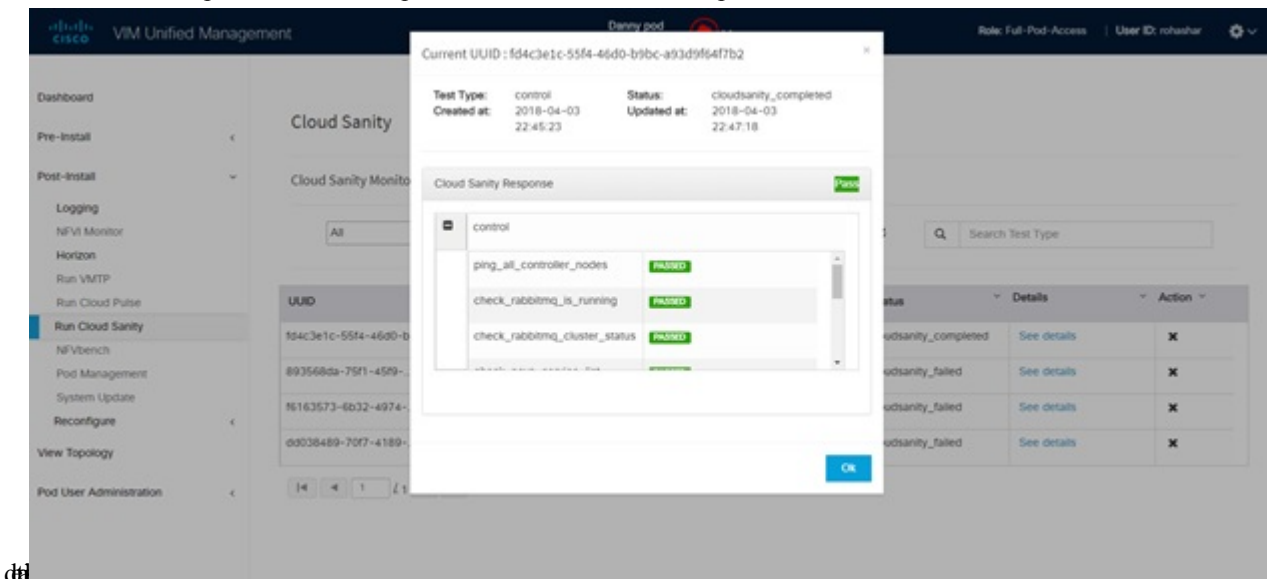
You can use the cloud sanity tool to test the Cisco NFVI pod and cloud infrastructure (host connectivity, basic mraiadb, rabbit, ceph cluster check, and RAID disks).

Following are the test available to run from insight.

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

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

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



Run NFV Bench

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

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

NDR/PDR Test

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

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

Reconfiguring CIMC Password Through Unified Management

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

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

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

Before you begin

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



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

Step 1 Log in to **CISCO VIM Insight**.

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

Step 3 Click **Reconfigure CIMC Password**.

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

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

