



# Managing Blueprints

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

- [Blueprints, page 1](#)
- [Creating a Blueprint for B-Series Server Platform, page 2](#)
- [Creating a Blueprint for C-Series Server Platform, page 19](#)
- [Creating a Blueprint using Upload Functionality, page 39](#)
- [Managing Post Install Features, page 42](#)

## Blueprints

Blueprints contain the configuration metadata required to deploy an OpenStack system through a Cisco VIM pod in Cisco VIM Insight. You can create a blueprint in Cisco Insight 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 Insight will display 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 update the configuration of the OpenStack system to match the new blueprint.

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. Any other blueprints that you created or uploaded to that pod are in non-active state.

Uploading or creating a blueprint does not activate that blueprint for the pod. You need to 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 need 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 40.

## Viewing Blueprint Details

You can view the details of an OpenStack installation blueprint. To view blueprint details:

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- Step 1** Log in to Cisco VIM Insight as pod User.
  - Step 2** In the Dashboard's Switch between Management Nodes, select the Cisco VIM pod with the blueprint that you want to view.
  - Step 3** Click **Menu** button 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 & Download YAML**.
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## 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.

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- 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:

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

Name	Description
Tenant Network drop-down list	Choose one of the following tenant network types: <ul style="list-style-type: none"> <li>Linux Bridge/VXLAN</li> <li>OVS/VLAN</li> </ul>
Ceph Mode drop-down list	Choose one of the following Ceph types: <ul style="list-style-type: none"> <li>Dedicated</li> <li>Central (By Default) (not supported in production)</li> </ul>
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.

Name	Description
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"> <li>• NFVI (Default)</li> <li>• Media</li> </ul>
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.
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 <b>Delete all</b> or click <b>Edit</b> 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"> <li>• Click <b>Add</b> to enter new entries (networks) to the table.</li> <li>• Specify the following fields in the <b>Edit Entry to Networks</b> dialog:</li> </ul> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td data-bbox="868 695 1175 856"><b>VALN</b> field</td> <td data-bbox="1182 695 1479 856">Enter the VLAN ID. For Segment - Provider, the VLAN ID value is always <b>none</b>.</td> </tr> <tr> <td data-bbox="868 865 1175 1472"><b>Segment</b> drop-down list</td> <td data-bbox="1182 865 1479 1472">           You can select any of one segment from dropdown list           <ul style="list-style-type: none"> <li>• API</li> <li>• Management Provision</li> <li>• Tenant</li> <li>• CIMC</li> <li>• Storage</li> <li>• External</li> <li>• Provider (optional)</li> </ul> <p><b>Note</b> Depending upon the segment not all entries listed below are needed</p> </td> </tr> <tr> <td data-bbox="868 1480 1175 1570"><b>Subnet</b> field</td> <td data-bbox="1182 1480 1479 1570">Enter the IPv4 address for the subnet.</td> </tr> <tr> <td data-bbox="868 1579 1175 1740"><b>IPv6 Subnet</b> field</td> <td data-bbox="1182 1579 1479 1740">Enter IPv6 Subnet Address. This field will be available only for Management Provision and API .</td> </tr> <tr> <td data-bbox="868 1749 1175 1854"><b>Gateway</b> field</td> <td data-bbox="1182 1749 1479 1854">Enter the IPv4 address for the Gateway.</td> </tr> </tbody> </table>	<b>VALN</b> field	Enter the VLAN ID. For Segment - Provider, the VLAN ID value is always <b>none</b> .	<b>Segment</b> drop-down list	You can select any of one segment from dropdown list <ul style="list-style-type: none"> <li>• API</li> <li>• Management Provision</li> <li>• Tenant</li> <li>• CIMC</li> <li>• Storage</li> <li>• External</li> <li>• Provider (optional)</li> </ul> <p><b>Note</b> Depending upon the segment not all entries listed below are needed</p>	<b>Subnet</b> field	Enter the IPv4 address for the subnet.	<b>IPv6 Subnet</b> field	Enter IPv6 Subnet Address. This field will be available only for Management Provision and API .	<b>Gateway</b> field	Enter the IPv4 address for the Gateway.
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<b>Subnet</b> field	Enter the IPv4 address for the subnet.										
<b>IPv6 Subnet</b> field	Enter IPv6 Subnet Address. This field will be available only for Management Provision and API .										
<b>Gateway</b> field	Enter the IPv4 address for the Gateway.										

Name	Description	
	IPv6 Gateway field	Enter IPv6 gateway. This field is only available for the 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: 10.1.1.5-10.1.1.10,10.2.15-10.2.1.10  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:	
	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><b>Add Entry to Servers and Roles.</b></p>	<p>Click <b>Edit</b> or + to add a new server and role to the table.</p> <table border="1" data-bbox="906 373 1515 1276"> <tbody> <tr> <td data-bbox="906 373 1213 436"><b>Server Name</b></td> <td data-bbox="1213 373 1515 436">Enter a server name.</td> </tr> <tr> <td data-bbox="906 436 1213 533"><b>Server Type</b> drop-down list.</td> <td data-bbox="1213 436 1515 533">Choose Blade or Rack from the drop-down list.</td> </tr> <tr> <td data-bbox="906 533 1213 596"><b>Rack ID</b> field.</td> <td data-bbox="1213 533 1515 596">The Rack ID for the server.</td> </tr> <tr> <td data-bbox="906 596 1213 659"><b>Chassis ID</b> field</td> <td data-bbox="1213 596 1515 659">Enter a Chassis ID.</td> </tr> <tr> <td data-bbox="906 659 1213 756">If Rack is chosen, the <b>Rack Unit ID</b> field is displayed.</td> <td data-bbox="1213 659 1515 756">Enter a Rack Unit ID.</td> </tr> <tr> <td data-bbox="906 756 1213 852">If Blade is chosen, the <b>Blade ID</b> field is displayed.</td> <td data-bbox="1213 756 1515 852">Enter a Blade ID.</td> </tr> <tr> <td data-bbox="906 852 1213 1012">Select the <b>Role</b> from the drop down list.</td> <td data-bbox="1213 852 1515 1012">If Server type is Blade then Control and Compute. If Rack is selected then Block Storage.</td> </tr> <tr> <td data-bbox="906 1012 1213 1171"><b>Management IP</b> field.</td> <td data-bbox="1213 1012 1515 1171">It is an optional field but if provided for one server then it is mandatory to provide it for other Servers as well.</td> </tr> <tr> <td data-bbox="906 1171 1213 1276"><b>Management IPv6</b> field.</td> <td data-bbox="1213 1171 1515 1276">Enter Management Ipv6 address.</td> </tr> </tbody> </table>	<b>Server Name</b>	Enter a server name.	<b>Server Type</b> drop-down list.	Choose Blade or Rack from the drop-down list.	<b>Rack ID</b> field.	The Rack ID for the server.	<b>Chassis ID</b> field	Enter a Chassis ID.	If Rack is chosen, the <b>Rack Unit ID</b> field is displayed.	Enter a Rack Unit ID.	If Blade is chosen, the <b>Blade ID</b> field is displayed.	Enter a Blade ID.	Select the <b>Role</b> from the drop down list.	If Server type is Blade then Control and Compute. If Rack is selected then Block Storage.	<b>Management IP</b> field.	It is an optional field but if provided for one server then it is mandatory to provide it for other Servers as well.	<b>Management IPv6</b> field.	Enter Management Ipv6 address.
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<p>Click <b>Save or Add.</b></p>	<p>Clicking <b>Save or Add</b>, 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><b>Configure ToR optional checkbox .</b></p>	<p>If you enable this checkbox, the Configure ToR section will change from false to true.</p>

Name	Description																									
<p><b>ToR Switch Information</b> mandatory table if you want to enter ToR information.</p>	<p>Click + to add information for ToR Switch.</p> <table border="1" data-bbox="870 373 1477 1516"> <thead> <tr> <th data-bbox="870 373 1172 422">Name</th> <th data-bbox="1172 373 1477 422">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="870 422 1172 491">Name</td> <td data-bbox="1172 422 1477 491">ToR switch name.</td> </tr> <tr> <td data-bbox="870 491 1172 560">Username</td> <td data-bbox="1172 491 1477 560">ToR switch username.</td> </tr> <tr> <td data-bbox="870 560 1172 630">Password</td> <td data-bbox="1172 560 1477 630">ToR switch Password.</td> </tr> <tr> <td data-bbox="870 630 1172 716">SSH IP</td> <td data-bbox="1172 630 1477 716">ToR switch SSH IP Address.</td> </tr> <tr> <td data-bbox="870 716 1172 848">SSN Num</td> <td data-bbox="1172 716 1477 848">ToR switch ssn num. output of show license host-id.</td> </tr> <tr> <td data-bbox="870 848 1172 1035">VPC Peer Keepalive</td> <td data-bbox="1172 848 1477 1035">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.</td> </tr> <tr> <td data-bbox="870 1035 1172 1129">VPC Domain</td> <td data-bbox="1172 1035 1477 1129">Need not define if there is no peer.</td> </tr> <tr> <td data-bbox="870 1129 1172 1194">VPC Peer port</td> <td data-bbox="1172 1129 1477 1194">Interface for vpc peer ports.</td> </tr> <tr> <td data-bbox="870 1194 1172 1293">VPC Peer VLAN Info</td> <td data-bbox="1172 1194 1477 1293">vlan ids for vpc peer ports (optional).</td> </tr> <tr> <td data-bbox="870 1293 1172 1388">BR Management Port Info</td> <td data-bbox="1172 1293 1477 1388">Management interface of build node.</td> </tr> <tr> <td data-bbox="870 1388 1172 1516">BR Management PO Info</td> <td data-bbox="1172 1388 1477 1516">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 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.
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<p>On clicking <b>Save</b>, Add ToR Info connected to Fabric field will be visible.</p>	<p><b>Port Channel</b> field.</p>	<p>Enter the port channel input.</p>																								
	<p><b>Switch Name</b> field.</p>	<p>Enter the switch name.</p>																								

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

Name	Description																												
<p><b>LDAP on Keystone.</b></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="824 436 1479 1528"> <tbody> <tr> <td data-bbox="824 436 1154 499"><b>Domain Name</b> field</td> <td data-bbox="1154 436 1479 499">Enter name for Domain name.</td> </tr> <tr> <td data-bbox="824 499 1154 562"><b>Object Class for Users</b> field</td> <td data-bbox="1154 499 1479 562">Enter a string as input.</td> </tr> <tr> <td data-bbox="824 562 1154 625"><b>Object Class for Groups</b></td> <td data-bbox="1154 562 1479 625">Enter a string.</td> </tr> <tr> <td data-bbox="824 625 1154 724"><b>Domain Name Tree for Users</b></td> <td data-bbox="1154 625 1479 724">Enter a string.</td> </tr> <tr> <td data-bbox="824 724 1154 823"><b>Domain Name Tree for Groups</b> field</td> <td data-bbox="1154 724 1479 823">Enter a string.</td> </tr> <tr> <td data-bbox="824 823 1154 921"><b>Suffix for Domain Name</b> field</td> <td data-bbox="1154 823 1479 921">Enter a string.</td> </tr> <tr> <td data-bbox="824 921 1154 1020"><b>URL</b> field</td> <td data-bbox="1154 921 1479 1020">Enter a URL with ending port number.</td> </tr> <tr> <td data-bbox="824 1020 1154 1119"><b>Domain Name for Bind User</b> field</td> <td data-bbox="1154 1020 1479 1119">Enter a string.</td> </tr> <tr> <td data-bbox="824 1119 1154 1218"><b>Password</b> field</td> <td data-bbox="1154 1119 1479 1218">Enter Password as string format.</td> </tr> <tr> <td data-bbox="824 1218 1154 1281"><b>User Filter</b> field</td> <td data-bbox="1154 1218 1479 1281">Enter filter name as string.</td> </tr> <tr> <td data-bbox="824 1281 1154 1344"><b>User ID Attribute</b> field</td> <td data-bbox="1154 1281 1479 1344">Enter a string.</td> </tr> <tr> <td data-bbox="824 1344 1154 1407"><b>User Name Attribute</b> field</td> <td data-bbox="1154 1344 1479 1407">Enter a string.</td> </tr> <tr> <td data-bbox="824 1407 1154 1470"><b>User Mail Attribute</b> field</td> <td data-bbox="1154 1407 1479 1470">Enter a string.</td> </tr> <tr> <td data-bbox="824 1470 1154 1528"><b>Group Name Attribute</b> field</td> <td data-bbox="1154 1470 1479 1528">Enter a string.</td> </tr> </tbody> </table>	<b>Domain Name</b> field	Enter name for Domain name.	<b>Object Class for Users</b> field	Enter a string as input.	<b>Object Class for Groups</b>	Enter a string.	<b>Domain Name Tree for Users</b>	Enter a string.	<b>Domain Name Tree for Groups</b> field	Enter a string.	<b>Suffix for Domain Name</b> field	Enter a string.	<b>URL</b> field	Enter a URL with ending port number.	<b>Domain Name for Bind User</b> field	Enter a string.	<b>Password</b> field	Enter Password as string format.	<b>User Filter</b> field	Enter filter name as string.	<b>User ID Attribute</b> field	Enter a string.	<b>User Name Attribute</b> field	Enter a string.	<b>User Mail Attribute</b> field	Enter a string.	<b>Group Name Attribute</b> field	Enter a string.
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Name	Description														
<p><b>Neutron</b></p>	<p>Neutron fields change on the basis of <b>Tenant Network Type</b> Selection from <b>Blueprint Initial Setup</b> page.</p> <p>Following are the options available for Neutron for OVS/VLAN:</p> <table border="1" data-bbox="862 478 1523 1593"> <tr> <td data-bbox="862 478 1192 642"><b>Tenant Network Type</b></td> <td data-bbox="1192 478 1523 642">Auto Filled based on the Tenant Network Type selected in the Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="862 642 1192 806"><b>Mechanism Drivers</b></td> <td data-bbox="1192 642 1523 806">Auto Filled based on the Tenant Network Type selected in Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="862 806 1192 1213"><b>NFV Hosts</b></td> <td data-bbox="1192 806 1523 1213">                     Auto filled with the Compute you added in Server and Roles.                       If you select All in this section <b>NFV_HOSTS: ALL</b> will be added to the Blueprint or you can select one particular compute. For Eg:   <b>NFV_HOSTS:</b>                      compute-server-1,                      compute-server-2.                 </td> </tr> <tr> <td data-bbox="862 1213 1192 1308"><b>Tenant VLAN Ranges</b></td> <td data-bbox="1192 1213 1523 1308">List of ranges separated by comma of form start:end.</td> </tr> <tr> <td data-bbox="862 1308 1192 1402"><b>Provider VLAN Ranges</b></td> <td data-bbox="1192 1308 1523 1402">List of ranges separated by comma of form start:end.</td> </tr> <tr> <td data-bbox="862 1402 1192 1530"><b>VM Hugh Page Size (available for NFV_HOSTS option)</b></td> <td data-bbox="1192 1402 1523 1530">2M or 1G</td> </tr> <tr> <td data-bbox="862 1530 1192 1593"><b>Enable Jumbo Frames</b></td> <td data-bbox="1192 1530 1523 1593">Check Box</td> </tr> </table> <p>For Tenant Network Type Linux Bridge, everything will remain the same except <b>Tenant VLAN Ranges</b> which will be removed.</p>	<b>Tenant Network Type</b>	Auto Filled based on the Tenant Network Type selected in the Blueprint Initial Setup page.	<b>Mechanism Drivers</b>	Auto Filled based on the Tenant Network Type selected in Blueprint Initial Setup page.	<b>NFV Hosts</b>	Auto filled with the Compute you added in Server and Roles.  If you select All in this section <b>NFV_HOSTS: ALL</b> will be added to the Blueprint or you can select one particular compute. For Eg:  <b>NFV_HOSTS:</b> compute-server-1, compute-server-2.	<b>Tenant VLAN Ranges</b>	List of ranges separated by comma of form start:end.	<b>Provider VLAN Ranges</b>	List of ranges separated by comma of form start:end.	<b>VM Hugh Page Size (available for NFV_HOSTS option)</b>	2M or 1G	<b>Enable Jumbo Frames</b>	Check Box
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<b>VM Hugh Page Size (available for NFV_HOSTS option)</b>	2M or 1G														
<b>Enable Jumbo Frames</b>	Check Box														

Name	Description
CEPH	Ceph has two pre-populated fields <ul style="list-style-type: none"> <li>• <b>CEPH Mode:</b> By default <b>Dedicated</b>.</li> <li>• <b>NOVA Boot from:</b> From the drop-down, choose <b>Ceph</b> or <b>local</b>.</li> </ul>
GLANCE	By default Populated for <b>CEPH Dedicated</b> with <b>Store Backend</b> value as <b>CEPH</b> .
CINDER	By default Populated for <b>CEPH Dedicated</b> with <b>Volume Driver</b> value as <b>CEPH</b> .

<b>Name</b>	<b>Description</b>
VMTP optional section will only be visible once VMTP is selected from Blueprint Initial Setup.	

Name	Description																										
	<p>Check one of the check boxes to specify a VMTP network:</p> <ul style="list-style-type: none"> <li>• Provider Network</li> <li>• External Network</li> </ul> <p>For the Provider Network complete the following:</p> <table border="1" data-bbox="824 533 1479 1207"> <tr> <td data-bbox="824 533 1151 632"><b>Network Name</b> field.</td> <td data-bbox="1151 533 1479 632">Enter the name for the external network.</td> </tr> <tr> <td data-bbox="824 632 1151 730"><b>IP Start</b> field.</td> <td data-bbox="1151 632 1479 730">Enter the starting floating IPv4 address.</td> </tr> <tr> <td data-bbox="824 730 1151 829"><b>IP End</b> field.</td> <td data-bbox="1151 730 1479 829">Enter the ending floating IPv4 address.</td> </tr> <tr> <td data-bbox="824 829 1151 928"><b>Gateway</b> field</td> <td data-bbox="1151 829 1479 928">Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td data-bbox="824 928 1151 1026"><b>DNS Server</b> field.</td> <td data-bbox="1151 928 1479 1026">Enter the DNS server IPv4 address.</td> </tr> <tr> <td data-bbox="824 1026 1151 1083"><b>Segmentation ID</b> field.</td> <td data-bbox="1151 1026 1479 1083">Enter the segmentation ID.</td> </tr> <tr> <td data-bbox="824 1083 1151 1207"><b>Subnet</b></td> <td data-bbox="1151 1083 1479 1207">Enter the Subnet for Provider Network.</td> </tr> </table> <p>For <b>External Network</b> fill in the following details:</p> <table border="1" data-bbox="824 1312 1479 1858"> <tr> <td data-bbox="824 1312 1151 1411"><b>Network Name</b> field.</td> <td data-bbox="1151 1312 1479 1411">Enter the name for the external network.</td> </tr> <tr> <td data-bbox="824 1411 1151 1509"><b>Network IP Start</b> field.</td> <td data-bbox="1151 1411 1479 1509">Enter the starting floating IPv4 address.</td> </tr> <tr> <td data-bbox="824 1509 1151 1608"><b>Network IP End</b> field.</td> <td data-bbox="1151 1509 1479 1608">Enter the ending floating IPv4 address.</td> </tr> <tr> <td data-bbox="824 1608 1151 1707"><b>Network Gateway</b> field</td> <td data-bbox="1151 1608 1479 1707">Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td data-bbox="824 1707 1151 1806"><b>DNS Server</b> field.</td> <td data-bbox="1151 1707 1479 1806">Enter the DNS server IPv4 address.</td> </tr> <tr> <td data-bbox="824 1806 1151 1858"><b>Subnet</b></td> <td data-bbox="1151 1806 1479 1858">Enter the Subnet for External</td> </tr> </table>	<b>Network Name</b> field.	Enter the name for the external network.	<b>IP Start</b> field.	Enter the starting floating IPv4 address.	<b>IP End</b> field.	Enter the ending floating IPv4 address.	<b>Gateway</b> field	Enter the IPv4 address for the Gateway.	<b>DNS Server</b> field.	Enter the DNS server IPv4 address.	<b>Segmentation ID</b> field.	Enter the segmentation ID.	<b>Subnet</b>	Enter the Subnet for Provider Network.	<b>Network Name</b> field.	Enter the name for the external network.	<b>Network IP Start</b> field.	Enter the starting floating IPv4 address.	<b>Network IP End</b> field.	Enter the ending floating IPv4 address.	<b>Network Gateway</b> field	Enter the IPv4 address for the Gateway.	<b>DNS Server</b> field.	Enter the DNS server IPv4 address.	<b>Subnet</b>	Enter the Subnet for External
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Name	Description												
	<table border="1" data-bbox="860 325 1516 394"> <tr> <td data-bbox="860 325 1188 394"></td> <td data-bbox="1188 325 1516 394">Network.</td> </tr> </table>		Network.										
	Network.												
<p><b>TLS</b> section will be visible if TLS is selected from Blueprint Initial Setup Page.</p>	<p><b>TLS</b> has two options:</p> <ul style="list-style-type: none"> <li>• <b>External LB VIP FQDN</b> - Text Field.</li> <li>• <b>External LB VIP TLS - True/False</b>. By default this option is false.</li> </ul>												
<p><b>SwiftStack</b> optional section will be visible if SwiftStack is selected from <b>Blueprint Initial Setup</b> Page. SwiftStack is only supported with KeyStonev2 . If you select <b>Keystonev3</b>, swiftstack cannot be configured.</p>	<p>Following are the options that needs to be filled for SwiftStack:</p> <table border="1" data-bbox="860 730 1516 1402"> <tr> <td data-bbox="860 730 1188 856"><b>Cluster End Point</b></td> <td data-bbox="1188 730 1516 856">IP address of PAC (proxy-account-container) endpoint.</td> </tr> <tr> <td data-bbox="860 856 1188 955"><b>Admin User</b></td> <td data-bbox="1188 856 1516 955">Admin user for swift to authenticate in keystone.</td> </tr> <tr> <td data-bbox="860 955 1188 1117"><b>Admin Tenant</b></td> <td data-bbox="1188 955 1516 1117">The service tenant corresponding to the Account-Container used by Swiftstack.</td> </tr> <tr> <td data-bbox="860 1117 1188 1276"><b>Reseller Prefix</b></td> <td data-bbox="1188 1117 1516 1276">Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_</td> </tr> <tr> <td data-bbox="860 1276 1188 1339"><b>Admin Password</b></td> <td data-bbox="1188 1276 1516 1339">swiftstack_admin_password</td> </tr> <tr> <td data-bbox="860 1339 1188 1402"><b>Protocol</b></td> <td data-bbox="1188 1339 1516 1402">http or https</td> </tr> </table>	<b>Cluster End Point</b>	IP address of PAC (proxy-account-container) endpoint.	<b>Admin User</b>	Admin user for swift to authenticate in keystone.	<b>Admin Tenant</b>	The service tenant corresponding to the Account-Container used by Swiftstack.	<b>Reseller Prefix</b>	Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_	<b>Admin Password</b>	swiftstack_admin_password	<b>Protocol</b>	http or https
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<b>Admin Password</b>	swiftstack_admin_password												
<b>Protocol</b>	http or https												
<p>Under the <b>openstack setup</b> tab, the <b>Vim_admins</b> tab will only be visible once Vim_admins is selected from the <b>Optional Features &amp; Services</b> under the <b>Blueprint InitialSetup</b> tab.</p>	<p>Following are the options that needs to be filled for Vim Admins:</p> <ul style="list-style-type: none"> <li>• <b>Username</b> - Text Field</li> <li>• <b>Password</b> - Password field. Admin hash password should always start with \$6</li> </ul>												

**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										
Syslog Export.	Following are the options for Syslog Settings: <table border="1" data-bbox="824 373 1479 730"> <tr> <td data-bbox="829 380 1154 436"><b>Remote Host</b></td> <td data-bbox="1154 380 1474 436">Enter Syslog IP Address</td> </tr> <tr> <td data-bbox="829 436 1154 499"><b>Facility</b></td> <td data-bbox="1154 436 1474 499">Defaults to local5</td> </tr> <tr> <td data-bbox="829 499 1154 562"><b>Severity</b></td> <td data-bbox="1154 499 1474 562">Defaults to debug</td> </tr> <tr> <td data-bbox="829 562 1154 625"><b>Clients</b></td> <td data-bbox="1154 562 1474 625">Defaults to ELK</td> </tr> <tr> <td data-bbox="829 625 1154 724"><b>Port</b></td> <td data-bbox="1154 625 1474 724">Defaults to 514 but can be modified by the User.</td> </tr> </table>	<b>Remote Host</b>	Enter Syslog IP Address	<b>Facility</b>	Defaults to local5	<b>Severity</b>	Defaults to debug	<b>Clients</b>	Defaults to ELK	<b>Port</b>	Defaults to 514 but can be modified by the User.
<b>Remote Host</b>	Enter Syslog IP Address										
<b>Facility</b>	Defaults to local5										
<b>Severity</b>	Defaults to debug										
<b>Clients</b>	Defaults to ELK										
<b>Port</b>	Defaults to 514 but can be modified by the User.										
NFVBENCH	Enable checkbox which by default is <b>False</b> . Add Tor information connected to switch: <ul style="list-style-type: none"> <li>• Select a <b>TOR</b> Switch and Enter the <b>Switch</b> name.</li> <li>• Enter the port number. For example: eth1/5. VTEP VLANS (mandatory and needed only for VXLAN): Enter 2 different VLANs for VLAN1 and VLAN2.</li> <li>• 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.</li> </ul>										
ENABLE_ESC_PRIV	Enable the checkbox to set it as <b>True</b> . By default it is <b>False</b> .										

**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
Blueprint Name field	Enter the name for the blueprint configuration.
Platform Type drop-down list	<ul style="list-style-type: none"> <li>• B-Series (By Default)</li> <li>• C-Series ( Select C Series)</li> </ul>
Tenant Network drop-down list	Choose one of the following tenant network types: <ul style="list-style-type: none"> <li>• Linux Bridge/VXLAN</li> <li>• OVS/VLAN</li> <li>• VTS/VLAN</li> <li>• VPP/VLAN</li> <li>• ACI/VLAN</li> </ul> <p><b>Note</b> 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"> <li>• Fullon(By Default)</li> <li>• Micro</li> <li>• UMHC</li> </ul> <p><b>Note</b> UMHC pod type is only supported for OVS/VLAN tenant type.  <b>Note</b> 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"> <li>• Dedicated (By Default)</li> <li>• Central (Is not supported in production)</li> </ul>

Name	Description
Optional Features and Services checkbox.	Swiftstack, LDAP, Syslog Export Settings, Install Mode, TorSwitch Information, TLS, Nfvmmon, Pod Name, VMTP, Nfvbench, 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 options are disabled.
Import Existing YAML file	If you have an existing C Series YAML file you can use this feature to upload the file.  Insight will automatically fill in the fields and if any mandatory field is missed then would highlight it in the respective section.

**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 <b>(Mandatory)</b> .
NTP Servers field.	Enter a maximum of four and minimum of one IPv4 and/or IPv6 addresses in the table.

Name	Description
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 <b>Delete all</b> or click <b>Edit</b> 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" data-bbox="906 514 1513 1854"> <thead> <tr> <th data-bbox="906 514 1211 562">Name</th> <th data-bbox="1211 514 1513 562">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="906 562 1211 739">VLAN field</td> <td data-bbox="1211 562 1513 739">Enter the VLAN ID. For Segment - Provider, the VLAN ID value is always "none".</td> </tr> <tr> <td data-bbox="906 739 1211 1388">Segment drop-down list</td> <td data-bbox="1211 739 1513 1388"> <p>You can select any one segment from the dropdown list.</p> <ul style="list-style-type: none"> <li>• API</li> <li>• Management/Provision</li> <li>• Tenant</li> <li>• CIMC</li> <li>• Storage</li> <li>• External</li> <li>• Provider (optional)</li> </ul> <p><b>Note</b> Some segments do not need some of the values listed in the preceding points.</p> </td> </tr> <tr> <td data-bbox="906 1388 1211 1482">Subnet field</td> <td data-bbox="1211 1388 1513 1482">Enter the IPv4 address for the subnet.</td> </tr> <tr> <td data-bbox="906 1482 1211 1640">IPv6 Subnet field</td> <td data-bbox="1211 1482 1513 1640">Enter IPv6 address. This field will be available only for Management provision and API.</td> </tr> <tr> <td data-bbox="906 1640 1211 1734">Gateway field</td> <td data-bbox="1211 1640 1513 1734">Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td data-bbox="906 1734 1211 1854">IPv6 Gateway field</td> <td data-bbox="1211 1734 1513 1854">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	<p>You can select any one segment from the dropdown list.</p> <ul style="list-style-type: none"> <li>• API</li> <li>• Management/Provision</li> <li>• Tenant</li> <li>• CIMC</li> <li>• Storage</li> <li>• External</li> <li>• Provider (optional)</li> </ul> <p><b>Note</b> 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
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Name	Description	
	<b>Name</b>	<b>Description</b>
		provision and API network.
	<b>Pool field</b>	Enter the pool information in the required format, for example: 10.30.1.1 or 10.30.1.1 to 10.30.1.12
<b>IPv6 Pool field</b>	Enter the pool information in the required format, for example: 10.1.1.5-10.1.1.10,10.1.1.10-10.1.1.10 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
<b>Server User Name</b>	Enter the username of the Server.
<b>Disable Hyperthreading</b>	Default value is false. You can set it as true or false.



Name	Description																
Cobbler	<p data-bbox="805 327 1321 357">Enter the Cobbler details in the following fields:</p> <table border="1" data-bbox="805 373 1515 1205"> <thead> <tr> <th data-bbox="805 373 1162 422">Name</th> <th data-bbox="1162 373 1515 422">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="805 422 1162 632"><b>Cobbler Timeout</b> field</td> <td data-bbox="1162 422 1515 632">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="805 632 1162 695"><b>Block Storage Kickstart</b> field</td> <td data-bbox="1162 632 1515 695">Kickstart file for Storage Node.</td> </tr> <tr> <td data-bbox="805 695 1162 884"><b>Admin Password Hash</b> field</td> <td data-bbox="1162 695 1515 884">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="805 884 1162 978"><b>Cobbler Username</b> field</td> <td data-bbox="1162 884 1515 978">Enter the cobbler username to access the cobbler server.</td> </tr> <tr> <td data-bbox="805 978 1162 1041"><b>Control Kickstart</b> field</td> <td data-bbox="1162 978 1515 1041">Kickstart file for Control Node.</td> </tr> <tr> <td data-bbox="805 1041 1162 1104"><b>Compute Kickstart</b> field</td> <td data-bbox="1162 1041 1515 1104">Kickstart file for Compute Node.</td> </tr> <tr> <td data-bbox="805 1104 1162 1205"><b>Cobbler Admin Username</b> field</td> <td data-bbox="1162 1104 1515 1205">Enter the admin username of the Cobbler.</td> </tr> </tbody> </table>	Name	Description	<b>Cobbler Timeout</b> 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.	<b>Block Storage Kickstart</b> field	Kickstart file for Storage Node.	<b>Admin Password Hash</b> field	Enter the Admin Password. Password should be Alphanumeric. Password should contain minimum 8 characters and maximum of 32 characters.	<b>Cobbler Username</b> field	Enter the cobbler username to access the cobbler server.	<b>Control Kickstart</b> field	Kickstart file for Control Node.	<b>Compute Kickstart</b> field	Kickstart file for Compute Node.	<b>Cobbler Admin Username</b> field	Enter the admin username of the Cobbler.
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<b>Cobbler Admin Username</b> field	Enter the admin username of the Cobbler.																

Name	Description																			
<p><b>Add Entry to Servers and Roles .</b></p> <p><b>Note</b> when Pod type micro is selected then all the three servers will be associated with control, compute and block storage role. For Example: Roles</p> <ul style="list-style-type: none"> <li>• Block Storage <ul style="list-style-type: none"> <li>◦ -Server 1</li> <li>◦ -Server 2</li> <li>◦ -Server 3</li> </ul> </li> <li>• Control <ul style="list-style-type: none"> <li>◦ -Server 1</li> <li>◦ -Server 2</li> <li>◦ -Server 3</li> </ul> </li> <li>• Compute <ul style="list-style-type: none"> <li>◦ -Server 1</li> <li>◦ -Server 2</li> <li>◦ -Server 3</li> </ul> </li> </ul> <p><b>Note</b> 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 <b>Edit</b> or + to add a new server and role to the table.</p> <table border="1" data-bbox="769 373 1479 1142"> <tr> <td data-bbox="769 373 1122 436"><b>Server Name</b></td> <td data-bbox="1127 373 1479 436">Entry the server name .</td> </tr> <tr> <td data-bbox="769 436 1122 499"><b>Rack ID</b> field</td> <td data-bbox="1127 436 1479 499">The rack ID for the server.</td> </tr> <tr> <td data-bbox="769 499 1122 562"><b>VIC Slot</b> field</td> <td data-bbox="1127 499 1479 562">Enter a VIC Slot.</td> </tr> <tr> <td data-bbox="769 562 1122 663"><b>Management IPv6</b>field</td> <td data-bbox="1127 562 1479 663">This is optional field. Enter Ipv6 format address</td> </tr> <tr> <td data-bbox="769 663 1122 726"><b>CIMC IP</b> field</td> <td data-bbox="1127 663 1479 726">Enter a IP address.</td> </tr> <tr> <td data-bbox="769 726 1122 789"><b>CIMC Username</b> field</td> <td data-bbox="1127 726 1479 789">Enter a Username.</td> </tr> <tr> <td data-bbox="769 789 1122 852"><b>CIMC Password</b> field</td> <td data-bbox="1127 789 1479 852">Enter a Password for CIMC</td> </tr> <tr> <td data-bbox="769 852 1122 982">Select the <b>Role</b> from the drop down list</td> <td data-bbox="1127 852 1479 982">Choose Control or Compute or Block Storage from the drop-down list.</td> </tr> <tr> <td data-bbox="769 982 1122 1142"><b>Management IP</b></td> <td data-bbox="1127 982 1479 1142">It is an optional field but if provided for one server then it is mandatory to provide it for other servers.</td> </tr> </table>		<b>Server Name</b>	Entry the server name .	<b>Rack ID</b> field	The rack ID for the server.	<b>VIC Slot</b> field	Enter a VIC Slot.	<b>Management IPv6</b> field	This is optional field. Enter Ipv6 format address	<b>CIMC IP</b> field	Enter a IP address.	<b>CIMC Username</b> field	Enter a Username.	<b>CIMC Password</b> field	Enter a Password for CIMC	Select the <b>Role</b> from the drop down list	Choose Control or Compute or Block Storage from the drop-down list.	<b>Management IP</b>	It is an optional field but if provided for one server then it is mandatory to provide it for other servers.
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<b>Management IP</b>	It is an optional field but if provided for one server then it is mandatory to provide it for other servers.																			
<p>Click <b>Save or Add</b> .</p>	<p>On clicking <b>Save or Add</b> all information related to Servers and Roles gets saved.</p>																			
<p>If <b>Configure ToR</b> checkbox is <b>True</b> with at-least one switch detail, these fields will be displayed for each server and this is similar to DP Tor: <b>Port Channel and Switch Name (Mandatory if Configure ToR is true)</b></p>	<ul style="list-style-type: none"> <li>• <b>Port Channel</b> field</li> <li>• <b>Switch Name</b> field</li> <li>• <b>Switch Port Info</b> field</li> </ul>	<ul style="list-style-type: none"> <li>• Enter the port channel input.</li> <li>• Enter the switch name.</li> <li>• Enter the switch port information.</li> </ul>																		

Name	Description	
DP ToR (Only for Control and Compute) : Mandatory if Intel NIC and Configure TOR is True.	<ul style="list-style-type: none"> <li>• <b>Port Channel</b> field</li> <li>• <b>Switch Name</b> field</li> <li>• <b>Switch Port Info</b> field</li> </ul>	<ul style="list-style-type: none"> <li>• Enter the port channel input.</li> <li>• Enter the switch name.</li> <li>• Enter the switch port information.</li> </ul>
<b>SRIOV TOR INFO</b> (Only for Compute Nodes). It is mandatory in server and roles if Intel NIC and Configure TOR is True. <b>Switch Name (Mandatory if Configure ToR is true)</b> . 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"> <li>• <b>Switch Name</b> field</li> <li>• <b>Switch Port Info</b> field</li> </ul>	<ul style="list-style-type: none"> <li>• Enter the switch name.</li> <li>• Enter the switch port information.</li> </ul>
<b>Intel SRIOV VFS</b> (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 <b>Save or Add</b> .	On clicking <b>Save or Add</b> 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	
<b>Configure TOR</b> optional checkbox.  <b>Note</b> If UMHC is selected as podtype, configure TOR is not allowed.	If you enable this checkbox configure tor section would be changed from false to true.  <b>Note</b> Configure tor is true then ToR switch info maps in servers	

Name	Description																								
<b>TOR Switch Information</b> mandatory table if you want to enter ToR information.	Click + to add information for ToR Switch.																								
	<table border="1"> <thead> <tr> <th data-bbox="771 384 1122 426">Name</th> <th data-bbox="1127 384 1477 426">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="771 432 1122 489">Name</td> <td data-bbox="1127 432 1477 489">ToR Switch Name.</td> </tr> <tr> <td data-bbox="771 495 1122 552">Username</td> <td data-bbox="1127 495 1477 552">TOR switch username</td> </tr> <tr> <td data-bbox="771 558 1122 615">Password</td> <td data-bbox="1127 558 1477 615">ToR switch Password</td> </tr> <tr> <td data-bbox="771 621 1122 678">SSH IP</td> <td data-bbox="1127 621 1477 678">TOR switch ssh ip</td> </tr> <tr> <td data-bbox="771 684 1122 741">SSN Num</td> <td data-bbox="1127 684 1477 741">TOR switch ssn num</td> </tr> <tr> <td data-bbox="771 747 1122 846">VPC Peer Keepalive</td> <td data-bbox="1127 747 1477 846">Peer Management IP. Do not define if there is no peer</td> </tr> <tr> <td data-bbox="771 852 1122 909">VPC Domain</td> <td data-bbox="1127 852 1477 909">Do not define if there is no peer</td> </tr> <tr> <td data-bbox="771 915 1122 972">VPC Peer Port Info</td> <td data-bbox="1127 915 1477 972">Interface for vpc peer ports</td> </tr> <tr> <td data-bbox="771 978 1122 1077">VPC Peer VLAN Info</td> <td data-bbox="1127 978 1477 1077">vlan ids for vpc peer ports (optional)</td> </tr> <tr> <td data-bbox="771 1083 1122 1161">BR Management Port Info</td> <td data-bbox="1127 1083 1477 1161">Management interface of build node</td> </tr> <tr> <td data-bbox="771 1167 1122 1287">BR Management PO Info</td> <td data-bbox="1127 1167 1477 1287">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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	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																								
Click <b>Save</b> .																									

**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
	<b>Host Name</b>	ToR switch name.
	<b>VPC Peerkeep alive</b>	Peer info must exist in pair.
	<b>VPC Domain</b>	Enter an Integer.
	<b>BR Management Port Info</b>	Enter Br management port info eg. Eth1/19, must have a pair in the peer switch.
	<b>Enter Node ID</b>	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><b>Configure ToR</b> optional checkbox.</p> <p><b>Note</b> 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><b>Note</b> Configure TOR is true then ToR switchinfo maps in servers.</p>

Name	Description																										
If you want to enter Fretta details fill in the <b>NCS-5500 Information</b> table.	Click (+) to add information for Fretta Switch.																										
	<table border="1"> <thead> <tr> <th data-bbox="868 384 1170 426">Name</th> <th data-bbox="1175 384 1477 426">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="868 432 1170 522"><b>Name</b></td> <td data-bbox="1175 432 1477 522">Enter the NCS-5500 hostname.</td> </tr> <tr> <td data-bbox="868 529 1170 619"><b>User Name</b></td> <td data-bbox="1175 529 1477 619">Enter the NCS-5500 username.</td> </tr> <tr> <td data-bbox="868 625 1170 716"><b>Password</b></td> <td data-bbox="1175 625 1477 716">Enter the NCS-5500 password.</td> </tr> <tr> <td data-bbox="868 722 1170 812"><b>SSH IP</b></td> <td data-bbox="1175 722 1477 812">Enter the NCS-5500 ssh IP Address.</td> </tr> <tr> <td data-bbox="868 819 1170 867"><b>VPC Peer Link</b></td> <td data-bbox="1175 819 1477 867">Peer management IP.</td> </tr> <tr> <td data-bbox="868 873 1170 989"><b>BR Management PO Info</b></td> <td data-bbox="1175 873 1477 989">Port channel number for management interface of build node.</td> </tr> <tr> <td data-bbox="868 995 1170 1113"><b>BR Management VLAN info</b></td> <td data-bbox="1175 995 1477 1113">VLAN ID for management interface of build node (access).</td> </tr> <tr> <td data-bbox="868 1119 1170 1167"><b>VPC Peer Port Info</b></td> <td data-bbox="1175 1119 1477 1167">Interface for vpc peer ports.</td> </tr> <tr> <td data-bbox="868 1173 1170 1222"><b>VPC Peer Port Address</b></td> <td data-bbox="1175 1173 1477 1222">Address for ISIS exchange.</td> </tr> <tr> <td data-bbox="868 1228 1170 1323"><b>ISIS Loopback Interface address</b></td> <td data-bbox="1175 1228 1477 1323">ISIS loopback IP Address.</td> </tr> <tr> <td data-bbox="868 1329 1170 1377"><b>ISIS net entity title</b></td> <td data-bbox="1175 1329 1477 1377">Enter a String.</td> </tr> <tr> <td data-bbox="868 1383 1170 1478"><b>ISIS prefix SID</b></td> <td data-bbox="1175 1383 1477 1478">Integer between 16000 to 1048575.</td> </tr> </tbody> </table>	Name	Description	<b>Name</b>	Enter the NCS-5500 hostname.	<b>User Name</b>	Enter the NCS-5500 username.	<b>Password</b>	Enter the NCS-5500 password.	<b>SSH IP</b>	Enter the NCS-5500 ssh IP Address.	<b>VPC Peer Link</b>	Peer management IP.	<b>BR Management PO Info</b>	Port channel number for management interface of build node.	<b>BR Management VLAN info</b>	VLAN ID for management interface of build node (access).	<b>VPC Peer Port Info</b>	Interface for vpc peer ports.	<b>VPC Peer Port Address</b>	Address for ISIS exchange.	<b>ISIS Loopback Interface address</b>	ISIS loopback IP Address.	<b>ISIS net entity title</b>	Enter a String.	<b>ISIS prefix SID</b>	Integer between 16000 to 1048575.
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When ToR-TYPE selected as NCS-5500 and 2 NCS-5500 are configured it is mandatory to configure MULTI\_SEGMENT\_ROUTING\_INFO.

Name	Description
<b>BGP AS Number</b>	Integer between 1 to 65535.
<b>ISIS Area Tag</b>	A valid string.

Name	Description
Loopback Interface name	Loopback Interface name.
API bundle ID	Integer between 1 to 65535.
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	<p>Neutron fields would change on the basis of <b>Tenant Network Type</b> Selection from <b>Blueprint Initial Setup</b>. Following are the options available for Neutron:</p> <table border="1" data-bbox="829 436 1479 1381"> <tr> <td data-bbox="829 436 1130 552"><b>Tenant Network Type</b></td> <td data-bbox="1130 436 1479 552">Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="829 552 1130 667"><b>Mechanism Drivers</b></td> <td data-bbox="1130 552 1479 667">Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="829 667 1130 1003"><b>NFV Hosts</b></td> <td data-bbox="1130 667 1479 1003">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 data-bbox="829 1003 1130 1119"><b>Tenant VLAN Ranges</b></td> <td data-bbox="1130 1003 1479 1119">Allowed with VTS/VLAN VPP/VLAN, OVS/VLAN, ACI/VLAN</td> </tr> <tr> <td data-bbox="829 1119 1130 1171"><b>Enable Jumbo Frames</b></td> <td data-bbox="1130 1119 1479 1171">Check Box default is false.</td> </tr> <tr> <td data-bbox="829 1171 1130 1381">Huge page size Note : . This is available only when Compute node is present in NFV host</td> <td data-bbox="1130 1171 1479 1381">The following are the drop-downs: <ul style="list-style-type: none"> <li>• 2M</li> <li>• 1G</li> </ul> </td> </tr> </table> <p>For Tenant Network Type Linux Bridge everything will remain the same but <b>Tenant VLAN Ranges</b> will be removed.</p>	<b>Tenant Network Type</b>	Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.	<b>Mechanism Drivers</b>	Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.	<b>NFV Hosts</b>	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"	<b>Tenant VLAN Ranges</b>	Allowed with VTS/VLAN VPP/VLAN, OVS/VLAN, ACI/VLAN	<b>Enable Jumbo Frames</b>	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"> <li>• 2M</li> <li>• 1G</li> </ul>
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CEPH	<p>Ceph has two pre-populated fields</p> <ul style="list-style-type: none"> <li>• <b>CEPH Mode</b> : By default Dedicated.</li> <li>• <b>NOVA Boot from:</b> Drop Down selection. You can choose Ceph or local.</li> </ul>												
GLANCE	By default populated for <b>CEPH Dedicated</b> with Store Backend value as <b>CEPH</b> .												



Name	Description										
<b>CINDER</b>	By default Populated for <b>CEPH Dedicated</b> with Volume Driver value as <b>CEPH</b> .										
<b>HA Proxy</b>	Enter the Mandatory fields: <table border="1" data-bbox="865 470 1520 919"> <tbody> <tr> <td data-bbox="865 470 1192 569"><b>External VIP Address</b></td> <td data-bbox="1192 470 1520 569">Enter IP Address of External VIP.</td> </tr> <tr> <td data-bbox="865 569 1192 667"><b>External VIP Address IPv6</b></td> <td data-bbox="1192 569 1520 667">Enter IP v6 Address of External VIP .</td> </tr> <tr> <td data-bbox="865 667 1192 726"><b>Virtual Router ID</b></td> <td data-bbox="1192 667 1520 726">Enter the Router ID for HA.</td> </tr> <tr> <td data-bbox="865 726 1192 825"><b>Internal VIP Address</b></td> <td data-bbox="1192 726 1520 825">Enter IP Address of Internal VIP.</td> </tr> <tr> <td data-bbox="865 825 1192 919"><b>Internal VIP Address IPv6</b></td> <td data-bbox="1192 825 1520 919">Enter IP v6 Address for Internal VIP.</td> </tr> </tbody> </table>	<b>External VIP Address</b>	Enter IP Address of External VIP.	<b>External VIP Address IPv6</b>	Enter IP v6 Address of External VIP .	<b>Virtual Router ID</b>	Enter the Router ID for HA.	<b>Internal VIP Address</b>	Enter IP Address of Internal VIP.	<b>Internal VIP Address IPv6</b>	Enter IP v6 Address for Internal VIP.
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<b>Keystone</b>	<table border="1" data-bbox="865 1010 1520 1115"> <tbody> <tr> <td data-bbox="865 1010 1192 1062"><b>Admin Username</b></td> <td data-bbox="1192 1010 1520 1062">admin</td> </tr> <tr> <td data-bbox="865 1062 1192 1115"><b>Admin Tenant Name</b></td> <td data-bbox="1192 1062 1520 1115">admin</td> </tr> </tbody> </table>	<b>Admin Username</b>	admin	<b>Admin Tenant Name</b>	admin						
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<b>Admin Tenant Name</b>	admin										

Name	Description																												
LDAP	<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="829 436 1479 1562"> <tbody> <tr> <td data-bbox="829 436 1154 531"><b>Domain Name</b> field</td> <td data-bbox="1154 436 1479 531">Enter name for Domain name.</td> </tr> <tr> <td data-bbox="829 531 1154 598"><b>Object Class for Users</b> field</td> <td data-bbox="1154 531 1479 598">Enter a string as input.</td> </tr> <tr> <td data-bbox="829 598 1154 665"><b>Object Class for Groups</b></td> <td data-bbox="1154 598 1479 665">Enter a string.</td> </tr> <tr> <td data-bbox="829 665 1154 760"><b>Domain Name Tree for Users</b></td> <td data-bbox="1154 665 1479 760">Enter a string.</td> </tr> <tr> <td data-bbox="829 760 1154 854"><b>Domain Name Tree for Groups</b> field</td> <td data-bbox="1154 760 1479 854">Enter a string.</td> </tr> <tr> <td data-bbox="829 854 1154 949"><b>Suffix for Domain Name</b> field</td> <td data-bbox="1154 854 1479 949">Enter a string.</td> </tr> <tr> <td data-bbox="829 949 1154 1043"><b>URL</b> field</td> <td data-bbox="1154 949 1479 1043">Enter a URL with ending port number.</td> </tr> <tr> <td data-bbox="829 1043 1154 1138"><b>Domain Name for Bind User</b> field</td> <td data-bbox="1154 1043 1479 1138">Enter a string.</td> </tr> <tr> <td data-bbox="829 1138 1154 1232"><b>Password</b> field</td> <td data-bbox="1154 1138 1479 1232">Enter Password as string format.</td> </tr> <tr> <td data-bbox="829 1232 1154 1299"><b>User Filter</b></td> <td data-bbox="1154 1232 1479 1299">Enter filter name as string.</td> </tr> <tr> <td data-bbox="829 1299 1154 1367"><b>User ID Attribute</b></td> <td data-bbox="1154 1299 1479 1367">Enter a string.</td> </tr> <tr> <td data-bbox="829 1367 1154 1434"><b>User Name Attribute</b></td> <td data-bbox="1154 1367 1479 1434">Enter a string.</td> </tr> <tr> <td data-bbox="829 1434 1154 1501"><b>User Mail Attribute</b></td> <td data-bbox="1154 1434 1479 1501">Enter a string.</td> </tr> <tr> <td data-bbox="829 1501 1154 1568"><b>Group Name Attribute</b></td> <td data-bbox="1154 1501 1479 1568">Enter a string.</td> </tr> </tbody> </table>	<b>Domain Name</b> field	Enter name for Domain name.	<b>Object Class for Users</b> field	Enter a string as input.	<b>Object Class for Groups</b>	Enter a string.	<b>Domain Name Tree for Users</b>	Enter a string.	<b>Domain Name Tree for Groups</b> field	Enter a string.	<b>Suffix for Domain Name</b> field	Enter a string.	<b>URL</b> field	Enter a URL with ending port number.	<b>Domain Name for Bind User</b> field	Enter a string.	<b>Password</b> field	Enter Password as string format.	<b>User Filter</b>	Enter filter name as string.	<b>User ID Attribute</b>	Enter a string.	<b>User Name Attribute</b>	Enter a string.	<b>User Mail Attribute</b>	Enter a string.	<b>Group Name Attribute</b>	Enter a string.
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<b>Group Name Attribute</b>	Enter a string.																												

Name	Description
<p><b>VMTP</b> optional section will only be visible once VMTP is selected from Blueprint Initial Setup.</p> <p><b>Note</b> For VTS, Provider network is only supported</p>	

Name	Description																										
	<p>Check one of the check boxes to specify a VMTP network:</p> <ul style="list-style-type: none"> <li>• Provider Network</li> <li>• External Network</li> </ul> <p>For the <b>Provider Network</b> complete the following:</p> <table border="1" data-bbox="829 537 1479 1178"> <tbody> <tr> <td data-bbox="829 537 1154 632"><b>Network Name</b> field</td> <td data-bbox="1154 537 1479 632">Enter the name for the external network.</td> </tr> <tr> <td data-bbox="829 632 1154 726"><b>IP Start</b> field</td> <td data-bbox="1154 632 1479 726">Enter the starting floating IPv4 address.</td> </tr> <tr> <td data-bbox="829 726 1154 821"><b>IP End</b> field</td> <td data-bbox="1154 726 1479 821">Enter the ending floating IPv4 address.</td> </tr> <tr> <td data-bbox="829 821 1154 915"><b>Gateway</b> field</td> <td data-bbox="1154 821 1479 915">Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td data-bbox="829 915 1154 1010"><b>DNS Server</b> field</td> <td data-bbox="1154 915 1479 1010">Enter the DNS server IPv4 address.</td> </tr> <tr> <td data-bbox="829 1010 1154 1083"><b>Segmentation ID</b> field</td> <td data-bbox="1154 1010 1479 1083">Enter the segmentation ID.</td> </tr> <tr> <td data-bbox="829 1083 1154 1178"><b>Subnet</b></td> <td data-bbox="1154 1083 1479 1178">Enter the Subnet for Provider Network.</td> </tr> </tbody> </table> <p>For <b>External Network</b> fill in the following details:</p> <table border="1" data-bbox="829 1283 1479 1856"> <tbody> <tr> <td data-bbox="829 1283 1154 1377"><b>Network Name</b> field</td> <td data-bbox="1154 1283 1479 1377">Enter the name for the external network.</td> </tr> <tr> <td data-bbox="829 1377 1154 1472"><b>Network IP Start</b> field</td> <td data-bbox="1154 1377 1479 1472">Enter the starting floating IPv4 address.</td> </tr> <tr> <td data-bbox="829 1472 1154 1566"><b>Network IP End</b> field</td> <td data-bbox="1154 1472 1479 1566">Enter the ending floating IPv4 address.</td> </tr> <tr> <td data-bbox="829 1566 1154 1661"><b>Network Gateway</b> field</td> <td data-bbox="1154 1566 1479 1661">Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td data-bbox="829 1661 1154 1755"><b>DNS Server</b> field</td> <td data-bbox="1154 1661 1479 1755">Enter the DNS server IPv4 address.</td> </tr> <tr> <td data-bbox="829 1755 1154 1856"><b>Subnet</b></td> <td data-bbox="1154 1755 1479 1856">Enter the Subnet for External Network.</td> </tr> </tbody> </table>	<b>Network Name</b> field	Enter the name for the external network.	<b>IP Start</b> field	Enter the starting floating IPv4 address.	<b>IP End</b> field	Enter the ending floating IPv4 address.	<b>Gateway</b> field	Enter the IPv4 address for the Gateway.	<b>DNS Server</b> field	Enter the DNS server IPv4 address.	<b>Segmentation ID</b> field	Enter the segmentation ID.	<b>Subnet</b>	Enter the Subnet for Provider Network.	<b>Network Name</b> field	Enter the name for the external network.	<b>Network IP Start</b> field	Enter the starting floating IPv4 address.	<b>Network IP End</b> field	Enter the ending floating IPv4 address.	<b>Network Gateway</b> field	Enter the IPv4 address for the Gateway.	<b>DNS Server</b> field	Enter the DNS server IPv4 address.	<b>Subnet</b>	Enter the Subnet for External Network.
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Name	Description												
<p><b>TLS</b> This optional section will only be visible once TLS is selected from Blueprint Initial Setup Page.</p>	<p><b>TLS</b> has two options:</p> <ul style="list-style-type: none"> <li>• <b>External LB VIP FQDN</b> - Text Field.</li> <li>• <b>External LB VIP TLS</b> - True/False. By default this option is false.</li> </ul>												
<p><b>SwiftStack</b> optional section will be visible once SwiftStack is selected from <b>Blueprint Initial Setup</b> 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="865 663 1515 1289"> <tbody> <tr> <td data-bbox="865 663 1190 779"><b>Cluster End Point</b></td> <td data-bbox="1190 663 1515 779">IP address of PAC (proxy-account-container) endpoint.</td> </tr> <tr> <td data-bbox="865 779 1190 863"><b>Admin User</b></td> <td data-bbox="1190 779 1515 863">Admin user for swift to authenticate in keystone.</td> </tr> <tr> <td data-bbox="865 863 1190 1010"><b>Admin Tenant</b></td> <td data-bbox="1190 863 1515 1010">The service tenant corresponding to the Account-Container used by Swiftstack.</td> </tr> <tr> <td data-bbox="865 1010 1190 1157"><b>Reseller Prefix</b></td> <td data-bbox="1190 1010 1515 1157">Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_</td> </tr> <tr> <td data-bbox="865 1157 1190 1209"><b>Admin Password</b></td> <td data-bbox="1190 1157 1515 1209">swiftstack_admin_password</td> </tr> <tr> <td data-bbox="865 1209 1190 1289"><b>Protocol</b></td> <td data-bbox="1190 1209 1515 1289">http or https. Protocol that swiftstack is running on top</td> </tr> </tbody> </table>	<b>Cluster End Point</b>	IP address of PAC (proxy-account-container) endpoint.	<b>Admin User</b>	Admin user for swift to authenticate in keystone.	<b>Admin Tenant</b>	The service tenant corresponding to the Account-Container used by Swiftstack.	<b>Reseller Prefix</b>	Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_	<b>Admin Password</b>	swiftstack_admin_password	<b>Protocol</b>	http or https. Protocol that swiftstack is running on top
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<b>Admin Password</b>	swiftstack_admin_password												
<b>Protocol</b>	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
<b>APIC Hosts</b> field	Enter host input. Example: <ip1 host1>:[port] . max of 3, min of 1, not 2;
<b>apic_username</b> field	Enter a string format.
<b>apic_password</b> filed	Enter Password.
<b>apic_system_id</b> field	Enter input as string. Max length 8.

Name	Description
apic_resource_prefix field	Enter string max length 6.
apic_tep_address_pool field	Allowed only 10.0.0.0/16
multiclass_address_pool field	Allowed only 225.0.0.0/15
apic_pod_id field	Enter integer(1- 65535)
apic_installer_tenant field	Enter String, max length 32
apic_installer_vrf field	Enter String, max length 32
api_l3out_network field	Enter String, max length 32

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

**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												
<p><b>Syslog Export</b></p>	<p>Following are the options for Syslog Settings:</p> <table border="1" data-bbox="906 373 1511 709"> <tr> <td><b>Remote Host</b></td> <td>Enter Syslog IP Address.</td> </tr> <tr> <td><b>Protocol</b></td> <td>Only UDP is supported.</td> </tr> <tr> <td><b>Facility</b></td> <td>Defaults to local5.</td> </tr> <tr> <td><b>Severity</b></td> <td>Defaults to debug.</td> </tr> <tr> <td><b>Clients</b></td> <td>Defaults to ELK</td> </tr> <tr> <td><b>Port</b></td> <td>Defaults to 514 but can be modified by the User.</td> </tr> </table>	<b>Remote Host</b>	Enter Syslog IP Address.	<b>Protocol</b>	Only UDP is supported.	<b>Facility</b>	Defaults to local5.	<b>Severity</b>	Defaults to debug.	<b>Clients</b>	Defaults to ELK	<b>Port</b>	Defaults to 514 but can be modified by the User.
<b>Remote Host</b>	Enter Syslog IP Address.												
<b>Protocol</b>	Only UDP is supported.												
<b>Facility</b>	Defaults to local5.												
<b>Severity</b>	Defaults to debug.												
<b>Clients</b>	Defaults to ELK												
<b>Port</b>	Defaults to 514 but can be modified by the User.												
<p><b>NFVBENCH</b></p>	<p>Enable checkbox which by default is <b>false</b>.</p> <p>Add ToR info connected to switch:</p> <ul style="list-style-type: none"> <li>• Select a TOR Switch. Switch- (switch name)</li> <li>• 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.</li> <li>• NIC Ports: INT1 &amp; INT2 Optional input, enter the 2 port numbers of the 4-port 10G Intel NIC at the management node used for NFVBench.</li> </ul>												
<p><b>ENABLE_ESC_PRIV</b></p>	<p>Enable the checkbox to set it as <b>True</b>. By default it is <b>False</b>.</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**.

## Creating a Blueprint using Upload Functionality

### Before You Begin

- You should 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, please refer to the setup\_data.yaml.B\_Series\_EXAMPLE or setup\_data.yaml.C\_Series\_EXAMPLE.

- The respective keys in the sample YALM should match or the corresponding section will not be populated during upload.

- 
- 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** Click the **Browse** button in the **Blueprint Initial Setup** page.
- Step 5** Click **Select**.
- Step 6** Click on **Load** button in the **Insight UI Application**.  
All the fields present in the YAML file will be uploaded to the respective fields in the UI.
- Step 7** Provide a **Name for the Blueprint**.  
Make sure the blueprint name is unique while saving it.
- Step 8** Click **Offline Validation**.
- If all the mandatory fields in the UI are populated, then Offline Validation of the Blueprint will commence, or else a pop up message indicating the section of Blueprint Creation that has missing information error shows up.
- Step 9** On Offline Blueprint Validation being successful , **Save Blueprint** and **Cancel** button will be enabled.  
**Note** If the Blueprint Validation Fails, only the **Cancel** button will be 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 Insight UI will not be able to fetch the Blueprint.

- 
- Step 1** Go to the **landing page** of the Insight Login.
- 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 will be sent to the email id entered during registration.

**Step 4** Login using the same email id and password.

**Step 5** In the Navigation pane, click **Pre-Install > Blueprint Management**.  
In the **Blueprint Management** Page you will see **NEWSETUPDATA**.

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

---

## 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** button 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 will be displayed.

**Step 6** Click the **Download** button at the bottom left of the pop-up window.  
YAML will be 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 the **Offline Validation** button.  
Only if the Validation is successful, the Insight will allow the user to save the blueprint.

---

### What to Do Next

If you see any errors, then hyperlink will be created for those errors. Click on 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

In VIM 2.2 and higher releases, we have used 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 > Monitoring**.  
The **Authentication Required** browser pop up is displayed.
- Step 2** Enter the **username** as Admin.
- Step 3** Enter the Kibana\_PASSWORD password obtained from /root/installer-`<tagid>/openstack-configs/secrets.yaml` in the management node.  
Kibana is launched in an I-Frame.
- Note** You can also view Kibana Logs in a new tab by clicking the **View Kibana logs** link.
- 

## 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.
-

## Run VMTP

Run VMTP is divided in two sections:

- **Results for Auto Run:** This will show the results of VMTP which was run during cloud deployment (Blueprint Installation).
- **Results for Manual Run:** Here you have an option to run the VMTP on demand. To run VMTP on demand just click **Run VMTP** button.




---

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

---

## Run CloudPulse

Following are the tests supported in CloudPulse:

- 1 cinder\_endpoint
- 2 glance\_endpoint
- 3 keystone\_endpoint
- 4 nova\_endpoint
- 5 neutron\_endpoint
- 6 rabbitmq\_check
- 7 galera\_check
- 8 ceph\_check

## Run NFV Bench

One can **Run NFV Bench** for **B** and **C** series Pod, through Cisco VIM Insight. On a pod running with CVIM, click on the 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 on NDR/PDR test and complete the following fields

Name	Description
Iteration Duration	Select duration from 10 to 60 sec. Default is 20 sec

Name	Description
Frame Size	Select the correct frame size to run
Run NDR/PDR test	Click on Run NDR/PDR test. Once NDR/PDR test is finished it will display each type of test with its own settings and results.

## Reconfiguring CIMC Password through Insight

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

To update a password, you need 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 would be 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, select **Post-Install**

**Step 3** Click **Reconfigure CIMC Password**.

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

Name	Description
CIMC_COMMON old Password	CIMC_COMMON old password field cannot be edited.
CIMC-COMMON new Password	Enter new CIMC-COMMON password. Password should be alphanumeric according to the password rule.

Name	Description
Click <b>Update</b>	Old <b>CIMC-COMMON</b> password will be updated with new <b>CIMC-COMMON</b> password.

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