



# Managing Blueprints

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

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- [Creating a Blueprint for C-Series Server Platform](#), page 19
- [Creating a Blueprint using Upload Functionality](#), page 39
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## 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.

- 
- 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"> <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
<b>Password</b> text field	Enter Password for UCSM Common (Mandatory).
<b>UCSM IP</b> text field	Enter IP Address for UCSM Common (Mandatory).
<b>Resource Prefix</b> text field	Enter the resource prefix (Mandatory)
<b>QoS Policy Type</b> drop-down list	Choose one of the following types: <ul style="list-style-type: none"> <li>• NFVI (Default)</li> <li>• Media</li> </ul>
<b>Enable Prov FI PIN</b> optional checkbox	Default is false.
<b>MRAID-CARD</b> optional checkbox	Enables JBOD mode to be set on disks. Applicable only if you have RAID controller configured on Storage C240 Rack servers.
<b>Enable UCSM Plugin</b> optional checkbox	Visible when Tenant Network type is OVS/VLA.
<b>Enable QoS Policy</b> optional checkbox	Visible only when UCSM Plugin is enabled. If UCSM Plugin is disabled then this option will be set to False.
<b>SRIOV Multi VLAN Trunk</b> 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
<b>Domain Name</b> field	Enter the domain name (Mandatory).
<b>HTTP Proxy Server</b> field	If your configuration uses an HTTP proxy server, enter the IP address of the server.
<b>HTTPS Proxy Server</b> field	If your configuration uses an HTTPS proxy server, enter the IP address of the server.
<b>IP Tables on Management Pods</b>	
<b>NTP Servers</b> field	Enter a maximum of four and minimum of one IPv4 and/or IPv6 addresses in the table.
<b>Domain Name Servers</b> 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" data-bbox="867 695 1479 1850"> <tbody> <tr> <td data-bbox="867 695 1174 856"><b>VALN</b> field</td> <td data-bbox="1174 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="867 856 1174 1472"><b>Segment</b> drop-down list</td> <td data-bbox="1174 856 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="867 1472 1174 1570"><b>Subnet</b> field</td> <td data-bbox="1174 1472 1479 1570">Enter the IPv4 address for the subnet.</td> </tr> <tr> <td data-bbox="867 1570 1174 1732"><b>IPv6 Subnet</b> field</td> <td data-bbox="1174 1570 1479 1732">Enter IPv6 Subnet Address. This field will be available only for Management Provision and API .</td> </tr> <tr> <td data-bbox="867 1732 1174 1850"><b>Gateway</b> field</td> <td data-bbox="1174 1732 1479 1850">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.
<b>VALN</b> field	Enter the VLAN ID. For Segment - Provider, the VLAN ID value is always <b>none</b> .										
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<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	
	<b>IPv6 Gateway field</b>	Enter IPv6 gateway. This field is only available for the Management Provision and API .
	<b>Pool field</b>	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
	<b>IPv6 Pool field</b>	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 available only for Management Provision.
Click <b>Save</b> .		

**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
<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	Enter the Cobbler details in the following fields:				
	<table border="1"> <thead> <tr> <th data-bbox="863 375 1172 424">Name</th> <th data-bbox="1172 375 1477 424">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="863 424 1172 659">Cobbler Timeout field</td> <td data-bbox="1172 424 1477 659">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> </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.
	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 <b>+</b> to add a new server and role to the table.</p> <table border="1" data-bbox="906 373 1513 1270"> <tbody> <tr> <td data-bbox="906 373 1211 436"><b>Server Name</b></td> <td data-bbox="1211 373 1513 436">Enter a server name.</td> </tr> <tr> <td data-bbox="906 436 1211 531"><b>Server Type</b> drop-down list.</td> <td data-bbox="1211 436 1513 531">Choose Blade or Rack from the drop-down list.</td> </tr> <tr> <td data-bbox="906 531 1211 594"><b>Rack ID</b> field.</td> <td data-bbox="1211 531 1513 594">The Rack ID for the server.</td> </tr> <tr> <td data-bbox="906 594 1211 657"><b>Chassis ID</b> field</td> <td data-bbox="1211 594 1513 657">Enter a Chassis ID.</td> </tr> <tr> <td data-bbox="906 657 1211 758">If Rack is chosen, the <b>Rack Unit ID</b> field is displayed.</td> <td data-bbox="1211 657 1513 758">Enter a Rack Unit ID.</td> </tr> <tr> <td data-bbox="906 758 1211 858">If Blade is chosen, the <b>Blade ID</b> field is displayed.</td> <td data-bbox="1211 758 1513 858">Enter a Blade ID.</td> </tr> <tr> <td data-bbox="906 858 1211 1014">Select the <b>Role</b> from the drop down list.</td> <td data-bbox="1211 858 1513 1014">If Server type is Blade then Control and Compute. If Rack is selected then Block Storage.</td> </tr> <tr> <td data-bbox="906 1014 1211 1169"><b>Management IP</b> field.</td> <td data-bbox="1211 1014 1513 1169">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 1169 1211 1270"><b>Management IPv6</b> field.</td> <td data-bbox="1211 1169 1513 1270">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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<b>Management IPv6</b> field.	Enter Management Ipv6 address.																		
<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="873 373 1479 1514"> <thead> <tr> <th data-bbox="873 373 1175 422">Name</th> <th data-bbox="1175 373 1479 422">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="873 422 1175 489">Name</td> <td data-bbox="1175 422 1479 489">ToR switch name.</td> </tr> <tr> <td data-bbox="873 489 1175 556">Username</td> <td data-bbox="1175 489 1479 556">ToR switch username.</td> </tr> <tr> <td data-bbox="873 556 1175 623">Password</td> <td data-bbox="1175 556 1479 623">ToR switch Password.</td> </tr> <tr> <td data-bbox="873 623 1175 716">SSH IP</td> <td data-bbox="1175 623 1479 716">ToR switch SSH IP Address.</td> </tr> <tr> <td data-bbox="873 716 1175 842">SSN Num</td> <td data-bbox="1175 716 1479 842">ToR switch ssn num. output of show license host-id.</td> </tr> <tr> <td data-bbox="873 842 1175 1035">VPC Peer Keepalive</td> <td data-bbox="1175 842 1479 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="873 1035 1175 1127">VPC Domain</td> <td data-bbox="1175 1035 1479 1127">Need not define if there is no peer.</td> </tr> <tr> <td data-bbox="873 1127 1175 1194">VPC Peer port</td> <td data-bbox="1175 1127 1479 1194">Interface for vpc peer ports.</td> </tr> <tr> <td data-bbox="873 1194 1175 1287">VPC Peer VLAN Info</td> <td data-bbox="1175 1194 1479 1287">vlan ids for vpc peer ports (optional).</td> </tr> <tr> <td data-bbox="873 1287 1175 1379">BR Management Port Info</td> <td data-bbox="1175 1287 1479 1379">Management interface of build node.</td> </tr> <tr> <td data-bbox="873 1379 1175 1514">BR Management PO Info</td> <td data-bbox="1175 1379 1479 1514">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: <table border="1" data-bbox="862 447 1515 863"> <tr> <td data-bbox="862 447 1190 541"><b>External VIP Address</b></td> <td data-bbox="1190 447 1515 541">Enter IP address of External VIP.</td> </tr> <tr> <td data-bbox="862 541 1190 636"><b>External VIP Address IPv6</b></td> <td data-bbox="1190 541 1515 636">Enter IPv6 address of External VIP.</td> </tr> <tr> <td data-bbox="862 636 1190 699"><b>Virtual Router ID</b></td> <td data-bbox="1190 636 1515 699">Enter the Router ID for HA.</td> </tr> <tr> <td data-bbox="862 699 1190 762"><b>Internal VIP Address IPv6</b></td> <td data-bbox="1190 699 1515 762">Enter IPv6 address.</td> </tr> <tr> <td data-bbox="862 762 1190 863"><b>Internal VIP Address</b></td> <td data-bbox="1190 762 1515 863">Enter IP address of Internal VIP.</td> </tr> </table>	<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>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. <table border="1" data-bbox="862 989 1515 1119"> <tr> <td data-bbox="862 989 1190 1052"><b>Admin Username</b></td> <td data-bbox="1190 989 1515 1052">admin.</td> </tr> <tr> <td data-bbox="862 1052 1190 1119"><b>Admin Tenant Name</b></td> <td data-bbox="1190 1052 1515 1119">admin.</td> </tr> </table>	<b>Admin Username</b>	admin.	<b>Admin Tenant Name</b>	admin.						
<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 1149 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="824 506 1149 569"><b>Object Class for Users</b> field</td> <td data-bbox="1154 506 1479 569">Enter a string as input.</td> </tr> <tr> <td data-bbox="824 575 1149 638"><b>Object Class for Groups</b></td> <td data-bbox="1154 575 1479 638">Enter a string.</td> </tr> <tr> <td data-bbox="824 644 1149 728"><b>Domain Name Tree for Users</b></td> <td data-bbox="1154 644 1479 728">Enter a string.</td> </tr> <tr> <td data-bbox="824 735 1149 819"><b>Domain Name Tree for Groups</b> field</td> <td data-bbox="1154 735 1479 819">Enter a string.</td> </tr> <tr> <td data-bbox="824 825 1149 909"><b>Suffix for Domain Name</b> field</td> <td data-bbox="1154 825 1479 909">Enter a string.</td> </tr> <tr> <td data-bbox="824 915 1149 1020"><b>URL</b> field</td> <td data-bbox="1154 915 1479 1020">Enter a URL with ending port number.</td> </tr> <tr> <td data-bbox="824 1026 1149 1110"><b>Domain Name for Bind User</b> field</td> <td data-bbox="1154 1026 1479 1110">Enter a string.</td> </tr> <tr> <td data-bbox="824 1117 1149 1201"><b>Password</b> field</td> <td data-bbox="1154 1117 1479 1201">Enter Password as string format.</td> </tr> <tr> <td data-bbox="824 1207 1149 1270"><b>User Filter</b> field</td> <td data-bbox="1154 1207 1479 1270">Enter filter name as string.</td> </tr> <tr> <td data-bbox="824 1276 1149 1339"><b>User ID Attribute</b> field</td> <td data-bbox="1154 1276 1479 1339">Enter a string.</td> </tr> <tr> <td data-bbox="824 1346 1149 1409"><b>User Name Attribute</b> field</td> <td data-bbox="1154 1346 1479 1409">Enter a string.</td> </tr> <tr> <td data-bbox="824 1415 1149 1478"><b>User Mail Attribute</b>field</td> <td data-bbox="1154 1415 1479 1478">Enter a string.</td> </tr> <tr> <td data-bbox="824 1484 1149 1526"><b>Group Name Attribute</b> field</td> <td data-bbox="1154 1484 1479 1526">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.
<b>Domain Name</b> field	Enter name for Domain name.																												
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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="862 480 1516 1596"> <tr> <td data-bbox="862 480 1187 642"><b>Tenant Network Type</b></td> <td data-bbox="1187 480 1516 642">Auto Filled based on the Tenant Network Type selected in the Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="862 642 1187 804"><b>Mechanism Drivers</b></td> <td data-bbox="1187 642 1516 804">Auto Filled based on the Tenant Network Type selected in Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="862 804 1187 1211"><b>NFV Hosts</b></td> <td data-bbox="1187 804 1516 1211">                     Auto filled with the Compute you added in Server and Roles.                       If you select All in this section NFV_HOSTS: <b>ALL</b> 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="862 1211 1187 1308"><b>Tenant VLAN Ranges</b></td> <td data-bbox="1187 1211 1516 1308">List of ranges separated by comma of form start:end.</td> </tr> <tr> <td data-bbox="862 1308 1187 1404"><b>Provider VLAN Ranges</b></td> <td data-bbox="1187 1308 1516 1404">List of ranges separated by comma of form start:end.</td> </tr> <tr> <td data-bbox="862 1404 1187 1530"><b>VM Hugh Page Size (available for NFV_HOSTS option)</b></td> <td data-bbox="1187 1404 1516 1530">2M or 1G</td> </tr> <tr> <td data-bbox="862 1530 1187 1596"><b>Enable Jumbo Frames</b></td> <td data-bbox="1187 1530 1516 1596">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 NFV_HOSTS: <b>ALL</b> will be added to the Blueprint or you can select one particular compute. For Eg: NFV_HOSTS: 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> .

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

Name	Description																												
	<p data-bbox="824 327 1451 359">Check one of the check boxes to specify a VMTP network:</p> <ul data-bbox="865 380 1073 453" style="list-style-type: none"> <li data-bbox="865 380 1073 411">• Provider Network</li> <li data-bbox="865 428 1073 453">• External Network</li> </ul> <p data-bbox="824 491 1354 522">For the Provider Network complete the following:</p> <table border="1" data-bbox="824 537 1479 1209"> <tbody> <tr> <td data-bbox="824 537 1151 632"><b>Network Name</b> field.</td> <td data-bbox="1151 537 1479 632">Enter the name for the external network.</td> </tr> <tr> <td data-bbox="824 632 1151 726"><b>IP Start</b> field.</td> <td data-bbox="1151 632 1479 726">Enter the starting floating IPv4 address.</td> </tr> <tr> <td data-bbox="824 726 1151 821"><b>IP End</b> field.</td> <td data-bbox="1151 726 1479 821">Enter the ending floating IPv4 address.</td> </tr> <tr> <td data-bbox="824 821 1151 915"><b>Gateway</b> field</td> <td data-bbox="1151 821 1479 915">Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td data-bbox="824 915 1151 1010"><b>DNS Server</b> field.</td> <td data-bbox="1151 915 1479 1010">Enter the DNS server IPv4 address.</td> </tr> <tr> <td data-bbox="824 1010 1151 1083"><b>Segmentation ID</b> field.</td> <td data-bbox="1151 1010 1479 1083">Enter the segmentation ID.</td> </tr> <tr> <td data-bbox="824 1083 1151 1178"><b>Subnet</b></td> <td data-bbox="1151 1083 1479 1178">Enter the Subnet for Provider Network.</td> </tr> <tr> <td data-bbox="824 1178 1151 1209"></td> <td data-bbox="1151 1178 1479 1209"></td> </tr> </tbody> </table> <p data-bbox="824 1272 1365 1304">For <b>External Network</b> fill in the following details:</p> <table border="1" data-bbox="824 1318 1479 1858"> <tbody> <tr> <td data-bbox="824 1318 1151 1413"><b>Network Name</b> field.</td> <td data-bbox="1151 1318 1479 1413">Enter the name for the external network.</td> </tr> <tr> <td data-bbox="824 1413 1151 1507"><b>Network IP Start</b> field.</td> <td data-bbox="1151 1413 1479 1507">Enter the starting floating IPv4 address.</td> </tr> <tr> <td data-bbox="824 1507 1151 1602"><b>Network IP End</b> field.</td> <td data-bbox="1151 1507 1479 1602">Enter the ending floating IPv4 address.</td> </tr> <tr> <td data-bbox="824 1602 1151 1696"><b>Network Gateway</b> field</td> <td data-bbox="1151 1602 1479 1696">Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td data-bbox="824 1696 1151 1791"><b>DNS Server</b> field.</td> <td data-bbox="1151 1696 1479 1791">Enter the DNS server IPv4 address.</td> </tr> <tr> <td data-bbox="824 1791 1151 1858"><b>Subnet</b></td> <td data-bbox="1151 1791 1479 1858">Enter the Subnet for External</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
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Name	Description												
	<table border="1" style="width: 100%;"> <tr> <td style="width: 70%;"></td> <td style="width: 30%;">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" style="width: 100%;"> <tr> <td style="width: 30%;"><b>Cluster End Point</b></td> <td>IP address of PAC (proxy-account-container) endpoint.</td> </tr> <tr> <td><b>Admin User</b></td> <td>Admin user for swift to authenticate in keystone.</td> </tr> <tr> <td><b>Admin Tenant</b></td> <td>The service tenant corresponding to the Account-Container used by Swiftstack.</td> </tr> <tr> <td><b>Reseller Prefix</b></td> <td>Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_</td> </tr> <tr> <td><b>Admin Password</b></td> <td>swiftstack_admin_password</td> </tr> <tr> <td><b>Protocol</b></td> <td>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
<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.												
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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.	<p>Following are the options for Syslog Settings:</p> <table border="1" data-bbox="824 373 1479 730"> <tbody> <tr> <td data-bbox="824 373 1154 436"><b>Remote Host</b></td> <td data-bbox="1154 373 1479 436">Enter Syslog IP Address</td> </tr> <tr> <td data-bbox="824 436 1154 499"><b>Facility</b></td> <td data-bbox="1154 436 1479 499">Defaults to local5</td> </tr> <tr> <td data-bbox="824 499 1154 562"><b>Severity</b></td> <td data-bbox="1154 499 1479 562">Defaults to debug</td> </tr> <tr> <td data-bbox="824 562 1154 625"><b>Clients</b></td> <td data-bbox="1154 562 1479 625">Defaults to ELK</td> </tr> <tr> <td data-bbox="824 625 1154 730"><b>Port</b></td> <td data-bbox="1154 625 1479 730">Defaults to 514 but can be modified by the User.</td> </tr> </tbody> </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	<p>Enable checkbox which by default is <b>False</b>.</p> <p>Add Tor information connected to switch:</p> <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, Nfvmon, 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
<b>Domain Name Servers</b> field	Enter a maximum of three and minimum of one IPv4 and/or IPv6 addresses
<b>HTTP Proxy Server</b> field	If your configuration uses an HTTP proxy server, enter the IP address of the server.
<b>HTTPS Proxy Server</b> 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 1511 1854"> <thead> <tr> <th data-bbox="906 514 1211 562">Name</th> <th data-bbox="1211 514 1511 562">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="906 562 1211 737"> <b>VLAN field</b> </td> <td data-bbox="1211 562 1511 737">                     Enter the VLAN ID.                      For Segment - Provider, the VLAN ID value is always "none".                 </td> </tr> <tr> <td data-bbox="906 737 1211 1388"> <b>Segment drop-down list</b> </td> <td data-bbox="1211 737 1511 1388">                     You can select any one segment from the 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> 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"> <b>Subnet field</b> </td> <td data-bbox="1211 1388 1511 1482">                     Enter the IPv4 address for the subnet.                 </td> </tr> <tr> <td data-bbox="906 1482 1211 1640"> <b>IPv6 Subnet field</b> </td> <td data-bbox="1211 1482 1511 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"> <b>Gateway field</b> </td> <td data-bbox="1211 1640 1511 1734">                     Enter the IPv4 address for the Gateway.                 </td> </tr> <tr> <td data-bbox="906 1734 1211 1854"> <b>IPv6 Gateway field</b> </td> <td data-bbox="1211 1734 1511 1854">                     Enter IPv6 gateway. This field will only available only for Management                 </td> </tr> </tbody> </table>	Name	Description	<b>VLAN field</b>	Enter the VLAN ID. For Segment - Provider, the VLAN ID value is always "none".	<b>Segment drop-down list</b>	You can select any one segment from the 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> Some segments do not need some of the values listed in the preceding points.</p>	<b>Subnet field</b>	Enter the IPv4 address for the subnet.	<b>IPv6 Subnet field</b>	Enter IPv6 address. This field will be available only for Management provision and API.	<b>Gateway field</b>	Enter the IPv4 address for the Gateway.	<b>IPv6 Gateway field</b>	Enter IPv6 gateway. This field will only available only for Management
Name	Description														
<b>VLAN field</b>	Enter the VLAN ID. For Segment - Provider, the VLAN ID value is always "none".														
<b>Segment drop-down list</b>	You can select any one segment from the 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> Some segments do not need some of the values listed in the preceding points.</p>														
<b>Subnet field</b>	Enter the IPv4 address for the subnet.														
<b>IPv6 Subnet field</b>	Enter IPv6 address. This field will be available only for Management provision and API.														
<b>Gateway field</b>	Enter the IPv4 address for the Gateway.														
<b>IPv6 Gateway field</b>	Enter IPv6 gateway. This field will only available only for Management														

Name	Description									
	<table border="1"> <thead> <tr> <th data-bbox="867 329 1170 378">Name</th> <th data-bbox="1175 329 1479 378">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="867 384 1170 443"></td> <td data-bbox="1175 384 1479 443">provision and API network.</td> </tr> <tr> <td data-bbox="867 449 1170 604"><b>Pool field</b></td> <td data-bbox="1175 449 1479 604">Enter the pool information in the required format, for example: 10.30.1.1 or 10.30.1.1 to 10.30.1.12</td> </tr> <tr> <td data-bbox="867 611 1170 835"><b>IPv6 Pool field</b></td> <td data-bbox="1175 611 1479 835">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.</td> </tr> </tbody> </table>	Name	Description		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: 10.1.1.5-10.1.1.10,10.2.1.5-10.2.1.10  This field is only available for the Mgmt/Provision.	
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		provision and API network.								
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	provision and API network.									
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<b>IPv6 Pool field</b>	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
<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>Compute Kickstart</b> field	Kickstart file for Compute Node.																
<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="769 443 1122 506"><b>Rack ID</b> field</td> <td data-bbox="1127 443 1479 506">The rack ID for the server.</td> </tr> <tr> <td data-bbox="769 512 1122 575"><b>VIC Slot</b> field</td> <td data-bbox="1127 512 1479 575">Enter a VIC Slot.</td> </tr> <tr> <td data-bbox="769 581 1122 665"><b>Management IPv6</b>field</td> <td data-bbox="1127 581 1479 665">This is optional field. Enter Ipv6 format address</td> </tr> <tr> <td data-bbox="769 672 1122 735"><b>CIMC IP</b> field</td> <td data-bbox="1127 672 1479 735">Enter a IP address.</td> </tr> <tr> <td data-bbox="769 741 1122 804"><b>CIMC Username</b> field</td> <td data-bbox="1127 741 1479 804">Enter a Username.</td> </tr> <tr> <td data-bbox="769 810 1122 873"><b>CIMC Password</b> field</td> <td data-bbox="1127 810 1479 873">Enter a Password for CIMC</td> </tr> <tr> <td data-bbox="769 879 1122 984">Select the <b>Role</b> from the drop down list</td> <td data-bbox="1127 879 1479 984">Choose Control or Compute or Block Storage from the drop-down list.</td> </tr> <tr> <td data-bbox="769 991 1122 1142"><b>Management IP</b></td> <td data-bbox="1127 991 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.																			
Click <b>Save or Add</b> .	On clicking <b>Save or Add</b> all information related to Servers and Roles gets saved.																			
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>	<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																								
<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="769 373 1479 1291"> <thead> <tr> <th data-bbox="774 380 1122 428">Name</th> <th data-bbox="1127 380 1474 428">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="774 434 1122 483">Name</td> <td data-bbox="1127 434 1474 483">ToR Switch Name.</td> </tr> <tr> <td data-bbox="774 489 1122 537">Username</td> <td data-bbox="1127 489 1474 537">TOR switch username</td> </tr> <tr> <td data-bbox="774 543 1122 592">Password</td> <td data-bbox="1127 543 1474 592">ToR switch Password</td> </tr> <tr> <td data-bbox="774 598 1122 646">SSH IP</td> <td data-bbox="1127 598 1474 646">TOR switch ssh ip</td> </tr> <tr> <td data-bbox="774 653 1122 701">SSN Num</td> <td data-bbox="1127 653 1474 701">TOR switch ssn num</td> </tr> <tr> <td data-bbox="774 707 1122 756">VPC Peer Keepalive</td> <td data-bbox="1127 707 1474 756">Peer Management IP. Do not define if there is no peer</td> </tr> <tr> <td data-bbox="774 762 1122 810">VPC Domain</td> <td data-bbox="1127 762 1474 810">Do not define if there is no peer</td> </tr> <tr> <td data-bbox="774 816 1122 865">VPC Peer Port Info</td> <td data-bbox="1127 816 1474 865">Interface for vpc peer ports</td> </tr> <tr> <td data-bbox="774 871 1122 919">VPC Peer VLAN Info</td> <td data-bbox="1127 871 1474 919">vlan ids for vpc peer ports (optional)</td> </tr> <tr> <td data-bbox="774 926 1122 974">BR Management Port Info</td> <td data-bbox="1127 926 1474 974">Management interface of build node</td> </tr> <tr> <td data-bbox="774 980 1122 1029">BR Management PO Info</td> <td data-bbox="1127 980 1474 1029">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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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
	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><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 991"><b>BR Management PO Info</b></td> <td data-bbox="1175 873 1477 991">Port channel number for management interface of build node.</td> </tr> <tr> <td data-bbox="868 997 1170 1115"><b>BR Management VLAN info</b></td> <td data-bbox="1175 997 1477 1115">VLAN ID for management interface of build node (access).</td> </tr> <tr> <td data-bbox="868 1121 1170 1169"><b>VPC Peer Port Info</b></td> <td data-bbox="1175 1121 1477 1169">Interface for vpc peer ports.</td> </tr> <tr> <td data-bbox="868 1176 1170 1224"><b>VPC Peer Port Address</b></td> <td data-bbox="1175 1176 1477 1224">Address for ISIS exchange.</td> </tr> <tr> <td data-bbox="868 1230 1170 1327"><b>ISIS Loopback Interface address</b></td> <td data-bbox="1175 1230 1477 1327">ISIS loopback IP Address.</td> </tr> <tr> <td data-bbox="868 1333 1170 1381"><b>ISIS net entity title</b></td> <td data-bbox="1175 1333 1477 1381">Enter a String.</td> </tr> <tr> <td data-bbox="868 1388 1170 1484"><b>ISIS prefix SID</b></td> <td data-bbox="1175 1388 1477 1484">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.
	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.																									
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	<b>VPC Peer Port Address</b>	Address for ISIS exchange.																									
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<b>ISIS prefix SID</b>	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
<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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<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>												
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>Internal VIP Address</b>	Enter IP Address of Internal VIP.										
<b>Internal VIP Address IPv6</b>	Enter IP v6 Address for Internal VIP.										
<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						
<b>Admin Username</b>	admin										
<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 1306"><b>User Filter</b></td> <td data-bbox="1154 1232 1479 1306">Enter filter name as string.</td> </tr> <tr> <td data-bbox="829 1306 1154 1373"><b>User ID Attribute</b></td> <td data-bbox="1154 1306 1479 1373">Enter a string.</td> </tr> <tr> <td data-bbox="829 1373 1154 1440"><b>User Name Attribute</b></td> <td data-bbox="1154 1373 1479 1440">Enter a string.</td> </tr> <tr> <td data-bbox="829 1440 1154 1507"><b>User Mail Attribute</b></td> <td data-bbox="1154 1440 1479 1507">Enter a string.</td> </tr> <tr> <td data-bbox="829 1507 1154 1562"><b>Group Name Attribute</b></td> <td data-bbox="1154 1507 1479 1562">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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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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<b>Subnet</b>	Enter the Subnet for External Network.																										

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> field	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 1516 711"> <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.

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## 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.

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## 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.

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### 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, we use 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 ELK\_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.

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- 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.




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

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## 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 2.2, 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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