



Managing Blueprints

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

- [Blueprints, page 1](#)
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- [Creating a Blueprint for C-Series Server Platform, page 18](#)
- [Creating a Blueprint using Upload Functionality , page 34](#)
- [Managing Post Install Features , page 37](#)

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 35.

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:

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

Name	Description
Tenant Network drop-down list	Choose one of the following tenant network types: <ul style="list-style-type: none"> Linux Bridge/VXLAN OVS/VLAN
Ceph Mode drop-down list	Choose one of the following Ceph types: <ul style="list-style-type: none"> Dedicated Central (By Default) (not supported in production)
Pod Type drop-down list	Fullon (By default).
Optional Features and Services checkbox	Syslog Export Settings, Swiftstack, Nfvbench, VMTP, LDAP, Pod Name, TOR Switch Information, TLS, Heat, Vim Admins, Auto Backup, NFVI Monitoring, Install Mode, Keystone v3, etc. 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"> • NFVI (Default) • Media
Enable Prov FI PIN optional checkbox	Default is false.
MRAID-CARD optional checkbox	Enables JBOD mode to be set on disks. Applicable only if you have RAID controller configured on Storage C240 Rack servers.
Enable UCSM Plugin optional checkbox	Visible when Tenant Network type is OVS/VLA.
Enable QoS Policy optional checkbox	Visible only when UCSM Plugin is enabled. If UCSM Plugin is disabled then this option will be set to False.
SRIOV Multi VLAN Trunk optional grid	Visible when UCSM Plugin is enabled. Enter the values for network and vlans ranges. Grid can handle all CRUD operations like Add, Delete, Edit and Multiple Delete.

Step 7 Click **Networking** to advance to the networking section of the Blueprint.

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

Name	Description
Network table	

Name	Description										
	<p>Network table is pre-populated with segments. To add Networks you can either clear all the table using Delete all or click Edit icon for each segment and fill in the details.</p> <p>You can add, edit, or delete network information in the table.</p> <ul style="list-style-type: none"> • Click Add to enter new entries (networks) to the table. • Specify the following fields in the Edit Entry to Networks dialog: <table border="1" data-bbox="867 695 1484 1862"> <tbody> <tr> <td data-bbox="867 695 1174 856">VALN field</td> <td data-bbox="1174 695 1484 856">Enter the VLAN ID. For Segment - Provider, the VLAN ID value is always none.</td> </tr> <tr> <td data-bbox="867 856 1174 1476">Segment drop-down list</td> <td data-bbox="1174 856 1484 1476"> You can select any of one segment from dropdown list <ul style="list-style-type: none"> • API • Management Provision • Tenant • CIMC • Storage • External • Provider (optional) <p>Note Depending upon the segment not all entries listed below are needed</p> </td> </tr> <tr> <td data-bbox="867 1476 1174 1570">Subnet field</td> <td data-bbox="1174 1476 1484 1570">Enter the IPv4 address for the subnet.</td> </tr> <tr> <td data-bbox="867 1570 1174 1732">IPv6 Subnet field</td> <td data-bbox="1174 1570 1484 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 1862">Gateway field</td> <td data-bbox="1174 1732 1484 1862">Enter the IPv4 address for the Gateway.</td> </tr> </tbody> </table>	VALN field	Enter the VLAN ID. For Segment - Provider, the VLAN ID value is always none .	Segment drop-down list	You can select any of one segment from dropdown list <ul style="list-style-type: none"> • API • Management Provision • Tenant • CIMC • Storage • External • Provider (optional) <p>Note Depending upon the segment not all entries listed below are needed</p>	Subnet field	Enter the IPv4 address for the subnet.	IPv6 Subnet field	Enter IPv6 Subnet Address. This field will be available only for Management Provision and API .	Gateway field	Enter the IPv4 address for the Gateway.
VALN field	Enter the VLAN ID. For Segment - Provider, the VLAN ID value is always none .										
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Subnet field	Enter the IPv4 address for the subnet.										
IPv6 Subnet field	Enter IPv6 Subnet Address. This field will be available only for Management Provision and API .										
Gateway field	Enter the IPv4 address for the Gateway.										

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: 10.1.1.5-10.1.1.10,10.2.1.5-10.2.1.10 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	<p data-bbox="867 327 1382 359">Enter the Cobbler details in the following fields:</p> <table border="1" data-bbox="867 373 1479 1367"> <thead> <tr> <th data-bbox="867 373 1174 422">Name</th> <th data-bbox="1174 373 1479 422">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="867 422 1174 663">Cobbler Timeout field</td> <td data-bbox="1174 422 1479 663">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="867 663 1174 758">Block Storage Kickstart field</td> <td data-bbox="1174 663 1479 758">Kickstart file for Storage Node.</td> </tr> <tr> <td data-bbox="867 758 1174 978">Admin Password Hash field</td> <td data-bbox="1174 758 1479 978">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="867 978 1174 1073">Cobbler Username field</td> <td data-bbox="1174 978 1479 1073">Enter the cobbler username to access the cobbler server.</td> </tr> <tr> <td data-bbox="867 1073 1174 1167">Control Kickstart field</td> <td data-bbox="1174 1073 1479 1167">Kickstart file for Control Node.</td> </tr> <tr> <td data-bbox="867 1167 1174 1262">Compute Kickstart field</td> <td data-bbox="1174 1167 1479 1262">Kickstart file for Compute Node.</td> </tr> <tr> <td data-bbox="867 1262 1174 1367">Cobbler Admin Username field</td> <td data-bbox="1174 1262 1479 1367">Enter the admin username of the Cobbler.</td> </tr> </tbody> </table>	Name	Description	Cobbler Timeout field	The default value is 45 min. This is an optional parameter. Timeout is displayed in minutes, and its value ranges from 30 to 120.	Block Storage Kickstart field	Kickstart file for Storage Node.	Admin Password Hash field	Enter the Admin Password. Password should be Alphanumeric. Password should contain minimum 8 characters and maximum of 32 characters.	Cobbler Username field	Enter the cobbler username to access the cobbler server.	Control Kickstart field	Kickstart file for Control Node.	Compute Kickstart field	Kickstart file for Compute Node.	Cobbler Admin Username field	Enter the admin username of the Cobbler.
Name	Description																
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Name	Description																		
<p>Add Entry to Servers and Roles.</p>	<p>Click Edit or + to add a new server and role to the table.</p> <table border="1" data-bbox="906 369 1513 1270"> <tr> <td data-bbox="906 369 1211 434">Server Name</td> <td data-bbox="1211 369 1513 434">Enter a server name.</td> </tr> <tr> <td data-bbox="906 434 1211 533">Server Type drop-down list.</td> <td data-bbox="1211 434 1513 533">Choose Blade or Rack from the drop-down list.</td> </tr> <tr> <td data-bbox="906 533 1211 598">Rack ID field.</td> <td data-bbox="1211 533 1513 598">The Rack ID for the server.</td> </tr> <tr> <td data-bbox="906 598 1211 663">Chassis ID field</td> <td data-bbox="1211 598 1513 663">Enter a Chassis ID.</td> </tr> <tr> <td data-bbox="906 663 1211 762">If Rack is chosen, the Rack Unit ID field is displayed.</td> <td data-bbox="1211 663 1513 762">Enter a Rack Unit ID.</td> </tr> <tr> <td data-bbox="906 762 1211 858">If Blade is chosen, the Blade ID field is displayed.</td> <td data-bbox="1211 762 1513 858">Enter a Blade ID.</td> </tr> <tr> <td data-bbox="906 858 1211 1016">Select the Role from the drop down list.</td> <td data-bbox="1211 858 1513 1016">If Server type is Blade then Control and Compute. If Rack is selected then Block Storage.</td> </tr> <tr> <td data-bbox="906 1016 1211 1176">Management IP field.</td> <td data-bbox="1211 1016 1513 1176">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 1176 1211 1270">Management IPv6 field.</td> <td data-bbox="1211 1176 1513 1270">Enter Management Ipv6 address.</td> </tr> </table>	Server Name	Enter a server name.	Server Type drop-down list.	Choose Blade or Rack from the drop-down list.	Rack ID field.	The Rack ID for the server.	Chassis ID field	Enter a Chassis ID.	If Rack is chosen, the Rack Unit ID field is displayed.	Enter a Rack Unit ID.	If Blade is chosen, the Blade ID field is displayed.	Enter a Blade ID.	Select the Role from the drop down list.	If Server type is Blade then Control and Compute. If Rack is selected then Block Storage.	Management IP field.	It is an optional field but if provided for one server then it is mandatory to provide it for other Servers as well.	Management IPv6 field.	Enter Management Ipv6 address.
Server Name	Enter a server name.																		
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Management IPv6 field.	Enter Management Ipv6 address.																		
<p>Click Save or Add.</p>	<p>Clicking Save or Add, adds all information for Servers and Roles.</p>																		

Step 9

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

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

Name	Description																									
<p>ToR Switch Information mandatory table if you want to enter ToR information.</p>	<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.
Name	Description																									
Name	ToR switch name.																									
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<p>On clicking Save, Add ToR Info connected to Fabric field will be visible.</p>	<p>Port Channel field.</p>	<p>Enter the port channel input.</p>																								
	<p>Switch Name 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	
HA Proxy	Fill in the mandatory fields:	
	External VIP Address	Enter IP address of External VIP.
	External VIP Address IPv6	Enter IPv6 address of External VIP.
	Virtual Router ID	Enter the Router ID for HA.
	Internal VIP Address IPv6	Enter IPv6 address.
	Internal VIP Address	Enter IP address of Internal VIP.
Keystone	Mandatory fields are pre-populated. This option is always true.	
	Admin Username	admin.
	Admin Tenant Name	admin.

Name	Description																												
<p>LDAP on Keystone.</p> <p>Note: this option is only available with Keystone v3</p>	<p>This is available only when Keystone v3 and LDAP both are enabled under Optional Features and Services in Blueprint Initial Setup.</p> <table border="1" data-bbox="824 436 1479 1528"> <tbody> <tr> <td data-bbox="824 436 1149 499">Domain Name field</td> <td data-bbox="1154 436 1479 499">Enter name for Domain name.</td> </tr> <tr> <td data-bbox="824 506 1149 569">Object Class for Users field</td> <td data-bbox="1154 506 1479 569">Enter a string as input.</td> </tr> <tr> <td data-bbox="824 575 1149 638">Object Class for Groups</td> <td data-bbox="1154 575 1479 638">Enter a string.</td> </tr> <tr> <td data-bbox="824 644 1149 728">Domain Name Tree for Users</td> <td data-bbox="1154 644 1479 728">Enter a string.</td> </tr> <tr> <td data-bbox="824 735 1149 819">Domain Name Tree for Groups field</td> <td data-bbox="1154 735 1479 819">Enter a string.</td> </tr> <tr> <td data-bbox="824 825 1149 909">Suffix for Domain Name field</td> <td data-bbox="1154 825 1479 909">Enter a string.</td> </tr> <tr> <td data-bbox="824 915 1149 1020">URL 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">Domain Name for Bind User field</td> <td data-bbox="1154 1026 1479 1110">Enter a string.</td> </tr> <tr> <td data-bbox="824 1117 1149 1201">Password field</td> <td data-bbox="1154 1117 1479 1201">Enter Password as string format.</td> </tr> <tr> <td data-bbox="824 1207 1149 1270">User Filter field</td> <td data-bbox="1154 1207 1479 1270">Enter filter name as string.</td> </tr> <tr> <td data-bbox="824 1276 1149 1339">User ID Attribute field</td> <td data-bbox="1154 1276 1479 1339">Enter a string.</td> </tr> <tr> <td data-bbox="824 1346 1149 1409">User Name Attribute field</td> <td data-bbox="1154 1346 1479 1409">Enter a string.</td> </tr> <tr> <td data-bbox="824 1415 1149 1478">User Mail Attributefield</td> <td data-bbox="1154 1415 1479 1478">Enter a string.</td> </tr> <tr> <td data-bbox="824 1484 1149 1526">Group Name Attribute field</td> <td data-bbox="1154 1484 1479 1526">Enter a string.</td> </tr> </tbody> </table>	Domain Name field	Enter name for Domain name.	Object Class for Users field	Enter a string as input.	Object Class for Groups	Enter a string.	Domain Name Tree for Users	Enter a string.	Domain Name Tree for Groups field	Enter a string.	Suffix for Domain Name field	Enter a string.	URL field	Enter a URL with ending port number.	Domain Name for Bind User field	Enter a string.	Password field	Enter Password as string format.	User Filter field	Enter filter name as string.	User ID Attribute field	Enter a string.	User Name Attribute field	Enter a string.	User Mail Attribute field	Enter a string.	Group Name Attribute field	Enter a string.
Domain Name field	Enter name for Domain name.																												
Object Class for Users field	Enter a string as input.																												
Object Class for Groups	Enter a string.																												
Domain Name Tree for Users	Enter a string.																												
Domain Name Tree for Groups field	Enter a string.																												
Suffix for Domain Name field	Enter a string.																												
URL field	Enter a URL with ending port number.																												
Domain Name for Bind User field	Enter a string.																												
Password field	Enter Password as string format.																												
User Filter field	Enter filter name as string.																												
User ID Attribute field	Enter a string.																												
User Name Attribute field	Enter a string.																												
User Mail Attribute field	Enter a string.																												
Group Name Attribute field	Enter a string.																												

Name	Description														
<p>Neutron</p>	<p>Neutron fields change on the basis of Tenant Network Type Selection from Blueprint Initial Setup page.</p> <p>Following are the options available for Neutron for OVS/VLAN:</p> <table border="1" data-bbox="862 480 1515 1596"> <tr> <td data-bbox="862 480 1187 642">Tenant Network Type</td> <td data-bbox="1187 480 1515 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">Mechanism Drivers</td> <td data-bbox="1187 642 1515 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">NFV Hosts</td> <td data-bbox="1187 804 1515 1211"> Auto filled with the Compute you added in Server and Roles. If you select All in this section NFV_HOSTS: ALL will be added to the Blueprint or you can select one particular compute. For Eg: NFV_HOSTS: compute-server-1, compute-server-2. </td> </tr> <tr> <td data-bbox="862 1211 1187 1308">Tenant VLAN Ranges</td> <td data-bbox="1187 1211 1515 1308">List of ranges separated by comma of form start:end.</td> </tr> <tr> <td data-bbox="862 1308 1187 1404">Provider VLAN Ranges</td> <td data-bbox="1187 1308 1515 1404">List of ranges separated by comma of form start:end.</td> </tr> <tr> <td data-bbox="862 1404 1187 1530">VM Hugh Page Size (available for NFV_HOSTS option)</td> <td data-bbox="1187 1404 1515 1530">2M or 1G</td> </tr> <tr> <td data-bbox="862 1530 1187 1596">Enable Jumbo Frames</td> <td data-bbox="1187 1530 1515 1596">Check Box</td> </tr> </table> <p>For Tenant Network Type Linux Bridge, everything will remain the same except Tenant VLAN Ranges which will be removed.</p>	Tenant Network Type	Auto Filled based on the Tenant Network Type selected in the Blueprint Initial Setup page.	Mechanism Drivers	Auto Filled based on the Tenant Network Type selected in Blueprint Initial Setup page.	NFV Hosts	Auto filled with the Compute you added in Server and Roles. If you select All in this section NFV_HOSTS: ALL will be added to the Blueprint or you can select one particular compute. For Eg: NFV_HOSTS: compute-server-1, compute-server-2.	Tenant VLAN Ranges	List of ranges separated by comma of form start:end.	Provider VLAN Ranges	List of ranges separated by comma of form start:end.	VM Hugh Page Size (available for NFV_HOSTS option)	2M or 1G	Enable Jumbo Frames	Check Box
Tenant Network Type	Auto Filled based on the Tenant Network Type selected in the Blueprint Initial Setup page.														
Mechanism Drivers	Auto Filled based on the Tenant Network Type selected in Blueprint Initial Setup page.														
NFV Hosts	Auto filled with the Compute you added in Server and Roles. If you select All in this section NFV_HOSTS: ALL will be added to the Blueprint or you can select one particular compute. For Eg: NFV_HOSTS: compute-server-1, compute-server-2.														
Tenant VLAN Ranges	List of ranges separated by comma of form start:end.														
Provider VLAN Ranges	List of ranges separated by comma of form start:end.														
VM Hugh Page Size (available for NFV_HOSTS option)	2M or 1G														
Enable Jumbo Frames	Check Box														

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

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 data-bbox="865 428 1073 453">• External Network <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">Network Name 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">IP Start 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">IP End 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">Gateway 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">DNS Server 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">Segmentation ID field.</td> <td data-bbox="1151 1010 1479 1083">Enter the segmentation ID.</td> </tr> <tr> <td data-bbox="824 1083 1151 1178">Subnet</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 External Network fill in the following details:</p> <table border="1" data-bbox="824 1318 1479 1858"> <tbody> <tr> <td data-bbox="824 1318 1151 1413">Network Name 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">Network IP Start 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">Network IP End 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">Network Gateway 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">DNS Server 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">Subnet</td> <td data-bbox="1151 1791 1479 1858">Enter the Subnet for External</td> </tr> </tbody> </table>	Network Name field.	Enter the name for the external network.	IP Start field.	Enter the starting floating IPv4 address.	IP End field.	Enter the ending floating IPv4 address.	Gateway field	Enter the IPv4 address for the Gateway.	DNS Server field.	Enter the DNS server IPv4 address.	Segmentation ID field.	Enter the segmentation ID.	Subnet	Enter the Subnet for Provider Network.			Network Name field.	Enter the name for the external network.	Network IP Start field.	Enter the starting floating IPv4 address.	Network IP End field.	Enter the ending floating IPv4 address.	Network Gateway field	Enter the IPv4 address for the Gateway.	DNS Server field.	Enter the DNS server IPv4 address.	Subnet	Enter the Subnet for External
Network Name field.	Enter the name for the external network.																												
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Subnet	Enter the Subnet for External																												

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>TLS section will be visible if TLS is selected from Blueprint Initial Setup Page.</p>	<p>TLS has two options:</p> <ul style="list-style-type: none"> • External LB VIP FQDN - Text Field. • External LB VIP TLS - True/False. By default this option is false. 												
<p>SwiftStack optional section will be visible if SwiftStack is selected from Blueprint Initial Setup Page. SwiftStack is only supported with KeyStonev2 . If you select Keystonev3, swiftstack cannot be configured.</p>	<p>Following are the options that needs to be filled for SwiftStack:</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 30%;">Cluster End Point</td> <td>IP address of PAC (proxy-account-container) endpoint.</td> </tr> <tr> <td>Admin User</td> <td>Admin user for swift to authenticate in keystone.</td> </tr> <tr> <td>Admin Tenant</td> <td>The service tenant corresponding to the Account-Container used by Swiftstack.</td> </tr> <tr> <td>Reseller Prefix</td> <td>Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_</td> </tr> <tr> <td>Admin Password</td> <td>swiftstack_admin_password</td> </tr> <tr> <td>Protocol</td> <td>http or https</td> </tr> </table>	Cluster End Point	IP address of PAC (proxy-account-container) endpoint.	Admin User	Admin user for swift to authenticate in keystone.	Admin Tenant	The service tenant corresponding to the Account-Container used by Swiftstack.	Reseller Prefix	Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_	Admin Password	swiftstack_admin_password	Protocol	http or https
Cluster End Point	IP address of PAC (proxy-account-container) endpoint.												
Admin User	Admin user for swift to authenticate in keystone.												
Admin Tenant	The service tenant corresponding to the Account-Container used by Swiftstack.												
Reseller Prefix	Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_												
Admin Password	swiftstack_admin_password												
Protocol	http or https												
<p>Under the openstack setup tab, the Vim_admins tab will only be visible once Vim_admins is selected from the Optional Features & Services under the Blueprint InitialSetup tab.</p>	<p>Following are the options that needs to be filled for Vim Admins:</p> <ul style="list-style-type: none"> • Username - Text Field • Password - Password field. Admin hash password should always start with \$6 												

Step 12 If **Syslog Export** or **NFVBENCH** is selected in **Blueprint Initial Setup** Page, then **Services Setup** page would be **enabled** for user to view. Following are the options under **Services Setup Tab**:

Name	Description										
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">Remote Host</td> <td data-bbox="1154 373 1479 436">Enter Syslog IP Address</td> </tr> <tr> <td data-bbox="824 436 1154 499">Facility</td> <td data-bbox="1154 436 1479 499">Defaults to local5</td> </tr> <tr> <td data-bbox="824 499 1154 562">Severity</td> <td data-bbox="1154 499 1479 562">Defaults to debug</td> </tr> <tr> <td data-bbox="824 562 1154 625">Clients</td> <td data-bbox="1154 562 1479 625">Defaults to ELK</td> </tr> <tr> <td data-bbox="824 625 1154 730">Port</td> <td data-bbox="1154 625 1479 730">Defaults to 514 but can be modified by the User.</td> </tr> </tbody> </table>	Remote Host	Enter Syslog IP Address	Facility	Defaults to local5	Severity	Defaults to debug	Clients	Defaults to ELK	Port	Defaults to 514 but can be modified by the User.
Remote Host	Enter Syslog IP Address										
Facility	Defaults to local5										
Severity	Defaults to debug										
Clients	Defaults to ELK										
Port	Defaults to 514 but can be modified by the User.										
NFVBENCH	<p>Enable checkbox which by default is False.</p> <p>Add Tor information connected to switch:</p> <ul style="list-style-type: none"> • Select a TOR Switch and Enter the Switch name. • Enter the port number. For example: eth1/5. VTEP VLANS (mandatory and needed only for VXLAN): Enter 2 different VLANs for VLAN1 and VLAN2. • NIC Ports: INT1 and INT2 optional input. Enter the 2 port numbers of the 4-port 10G Intel NIC at the management node used for NFVBench. 										

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

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

Creating a Blueprint for C-Series Server Platform

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

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

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

Step 3 Click **Blueprint Setup**.

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

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

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

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

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

Step 6 Click **CIMC Common** tab and complete the following fields:

Name	Description
User Name disabled field	By default value is Admin.
Password text field	Enter Password for UCSM Common (Mandatory).

Step 7 Click **Networking** to advance to the networking section of the Blueprint.

Name	Description
Domain Name field.	Enter the domain name (Mandatory).
NTP Servers field.	Enter a maximum of four and minimum of one IPv4 and/or IPv6 addresses in the table.
Domain Name Servers field	Enter a maximum of three and minimum of one IPv4 and/or IPv6 addresses
HTTP Proxy Server field	If your configuration uses an HTTP proxy server, enter the IP address of the server.
HTTPS Proxy Server field.	If your configuration uses an HTTPS proxy server, enter the IP address of the server.
Networks table	Network table is pre-populated with segments. To add Networks you can either clear all the table using Delete all or click Edit icon for each segment and fill in the details. You can add, edit, or delete network information in the table.

Step 8 Click **Edit** to enter new entries (networks) to the table. Specify the following fields in the **Edit Entry** to Networks dialog:

Name	Description
Segment drop-down list	<p>Default is already selected.</p> <p>When you add/edit the segment then the following are the segment types available and you can select only one from dropdown list.</p> <ul style="list-style-type: none"> • API • Management/provision • Tenant • Storage • External • Provider • ACIINFRA <p>Note Aciinfra segment is available only when ACI/VLAN tenant type is selected) Depending upon the segment some of the entries below are not needed. Please refer to the example file in openstack-configs dir for details.</p>
VLAN field	Enter the VLAN ID. For Segment - Provider , the VLAN ID value is always none .
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 the IPv6 address for the Gateway. This will support for API and management provision
Pool field	<p>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</p> <p>This field is only available for the Mgmt/Provision, Storage, and Tenant segments.</p>
IPv6 Pool field	<p>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</p> <p>This field is only available only for Management provision</p>
Click Save .	

Step 9 On the **Servers and Roles** page of the **Cisco VIM Suite** wizard, click **Add (+)** to add a new entry in the table, and complete the following fields:

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

Name	Description																
Server User Name	Enter the username of the Server.																
Disable Hyperthreading	Default value is false. You can set it as true or false.																
Cobbler	<p>Enter the Cobbler details in the following fields:</p> <table border="1" data-bbox="769 611 1479 1444"> <thead> <tr> <th data-bbox="769 611 1125 661">Name</th> <th data-bbox="1125 611 1479 661">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="769 661 1125 869">Cobbler Timeout field</td> <td data-bbox="1125 661 1479 869">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="769 869 1125 934">Block Storage Kickstart field</td> <td data-bbox="1125 869 1479 934">Kickstart file for Storage Node.</td> </tr> <tr> <td data-bbox="769 934 1125 1121">Admin Password Hash field</td> <td data-bbox="1125 934 1479 1121">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="769 1121 1125 1220">Cobbler Username field</td> <td data-bbox="1125 1121 1479 1220">Enter the cobbler username to access the cobbler server.</td> </tr> <tr> <td data-bbox="769 1220 1125 1285">Control Kickstart field</td> <td data-bbox="1125 1220 1479 1285">Kickstart file for Control Node.</td> </tr> <tr> <td data-bbox="769 1285 1125 1350">Compute Kickstart field</td> <td data-bbox="1125 1285 1479 1350">Kickstart file for Compute Node.</td> </tr> <tr> <td data-bbox="769 1350 1125 1444">Cobbler Admin Username field</td> <td data-bbox="1125 1350 1479 1444">Enter the admin username of the Cobbler.</td> </tr> </tbody> </table>	Name	Description	Cobbler Timeout field	The default value is 45 min. This is an optional parameter. Timeout is displayed in minutes, and its value ranges from 30 to 120.	Block Storage Kickstart field	Kickstart file for Storage Node.	Admin Password Hash field	Enter the Admin Password. Password should be Alphanumeric. Password should contain minimum 8 characters and maximum of 32 characters.	Cobbler Username field	Enter the cobbler username to access the cobbler server.	Control Kickstart field	Kickstart file for Control Node.	Compute Kickstart field	Kickstart file for Compute Node.	Cobbler Admin Username field	Enter the admin username of the Cobbler.
Name	Description																
Cobbler Timeout field	The default value is 45 min. This is an optional parameter. Timeout is displayed in minutes, and its value ranges from 30 to 120.																
Block Storage Kickstart field	Kickstart file for Storage Node.																
Admin Password Hash field	Enter the Admin Password. Password should be Alphanumeric. Password should contain minimum 8 characters and maximum of 32 characters.																
Cobbler Username field	Enter the cobbler username to access the cobbler server.																
Control Kickstart field	Kickstart file for Control Node.																
Compute Kickstart field	Kickstart file for Compute Node.																
Cobbler Admin Username field	Enter the admin username of the Cobbler.																

Name	Description																			
<p>Add Entry to Servers and Roles .</p> <p>Note when Pod type micro is selected then all the three servers will be associated with control, compute and block storage role. For Example: Roles</p> <ul style="list-style-type: none"> • Block Storage <ul style="list-style-type: none"> ◦ -Server 1 ◦ -Server 2 ◦ -Server 3 • Control <ul style="list-style-type: none"> ◦ -Server 1 ◦ -Server 2 ◦ -Server 3 • Compute <ul style="list-style-type: none"> ◦ -Server 1 ◦ -Server 2 ◦ -Server 3 <p>Note When Pod type UMHC is selected then auto ToR configuration is not supported and the ToR info at server and roles level is not allowed to be entered.</p>	<p>Click Edit or + to add a new server and role to the table.</p> <table border="1" data-bbox="807 369 1515 1142"> <tr> <td data-bbox="807 369 1162 436">Server Name</td> <td data-bbox="1162 369 1515 436">Enter the server name .</td> </tr> <tr> <td data-bbox="807 436 1162 501">Rack ID field</td> <td data-bbox="1162 436 1515 501">The rack ID for the server.</td> </tr> <tr> <td data-bbox="807 501 1162 567">VIC Slot field</td> <td data-bbox="1162 501 1515 567">Enter a VIC Slot.</td> </tr> <tr> <td data-bbox="807 567 1162 661">Management IPv6field</td> <td data-bbox="1162 567 1515 661">This is optional field. Enter Ipv6 format address</td> </tr> <tr> <td data-bbox="807 661 1162 726">CIMC IP field</td> <td data-bbox="1162 661 1515 726">Enter a IP address.</td> </tr> <tr> <td data-bbox="807 726 1162 791">CIMC Username field</td> <td data-bbox="1162 726 1515 791">Enter a Username.</td> </tr> <tr> <td data-bbox="807 791 1162 856">CIMC Password field</td> <td data-bbox="1162 791 1515 856">Enter a Password for CIMC</td> </tr> <tr> <td data-bbox="807 856 1162 982">Select the Role from the drop down list</td> <td data-bbox="1162 856 1515 982">Choose Control or Compute or Block Storage from the drop-down list.</td> </tr> <tr> <td data-bbox="807 982 1162 1142">Management IP</td> <td data-bbox="1162 982 1515 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>		Server Name	Enter the server name .	Rack ID field	The rack ID for the server.	VIC Slot field	Enter a VIC Slot.	Management IPv6 field	This is optional field. Enter Ipv6 format address	CIMC IP field	Enter a IP address.	CIMC Username field	Enter a Username.	CIMC Password field	Enter a Password for CIMC	Select the Role from the drop down list	Choose Control or Compute or Block Storage from the drop-down list.	Management IP	It is an optional field but if provided for one server then it is mandatory to provide it for other servers.
Server Name	Enter the server name .																			
Rack ID field	The rack ID for the server.																			
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CIMC IP field	Enter a IP address.																			
CIMC Username field	Enter a Username.																			
CIMC Password field	Enter a Password for CIMC																			
Select the Role from the drop down list	Choose Control or Compute or Block Storage from the drop-down list.																			
Management IP	It is an optional field but if provided for one server then it is mandatory to provide it for other servers.																			
<p>Click Save or Add .</p>	<p>On clicking Save or Add all information related to Servers and Roles gets saved.</p>																			
<p>If Configure ToR checkbox is Truewith at-least one switch detail, these fields will be displayed for each server and this is similar to DP Tor: Port Channel and Switch Name (Mandatory if Configure ToR is true)</p>	<ul style="list-style-type: none"> • Port Channel field • Switch Name field • Switch Port Info field 	<ul style="list-style-type: none"> • Enter the port channel input. • Enter the switch name. • Enter the switch port information. 																		

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

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

Name	Description																								
<p>Configure TOR optional checkbox.</p> <p>Note If UMHC is selected as podtype, configure TOR is not allowed.</p>	<p>If you enable this checkbox configure tor section would be changed from false to true.</p> <p>Note Configure tor is true then ToR switch info maps in servers</p>																								
<p>TOR Switch Information mandatory table if you want to enter ToR information.</p>	<p>Click + to add information for ToR Switch.</p> <table border="1" data-bbox="808 516 1511 1436"> <thead> <tr> <th data-bbox="808 516 1162 569">Name</th> <th data-bbox="1162 516 1511 569">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="808 569 1162 632">Name</td> <td data-bbox="1162 569 1511 632">ToR Switch Name.</td> </tr> <tr> <td data-bbox="808 632 1162 695">Username</td> <td data-bbox="1162 632 1511 695">TOR switch username</td> </tr> <tr> <td data-bbox="808 695 1162 758">Password</td> <td data-bbox="1162 695 1511 758">ToR switch Password</td> </tr> <tr> <td data-bbox="808 758 1162 821">SSH IP</td> <td data-bbox="1162 758 1511 821">TOR switch ssh ip</td> </tr> <tr> <td data-bbox="808 821 1162 884">SSN Num</td> <td data-bbox="1162 821 1511 884">TOR switch ssn num</td> </tr> <tr> <td data-bbox="808 884 1162 989">VPC Peer Keepalive</td> <td data-bbox="1162 884 1511 989">Peer Management IP. Do not define if there is no peer</td> </tr> <tr> <td data-bbox="808 989 1162 1052">VPC Domain</td> <td data-bbox="1162 989 1511 1052">Do not define if there is no peer</td> </tr> <tr> <td data-bbox="808 1052 1162 1115">VPC Peer Port Info</td> <td data-bbox="1162 1052 1511 1115">Interface for vpc peer ports</td> </tr> <tr> <td data-bbox="808 1115 1162 1220">VPC Peer VLAN Info</td> <td data-bbox="1162 1115 1511 1220">vlan ids for vpc peer ports (optional)</td> </tr> <tr> <td data-bbox="808 1220 1162 1304">BR Management Port Info</td> <td data-bbox="1162 1220 1511 1304">Management interface of build node</td> </tr> <tr> <td data-bbox="808 1304 1162 1436">BR Management PO Info</td> <td data-bbox="1162 1304 1511 1436">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
Name	Description																								
Name	ToR Switch Name.																								
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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																								
<p>Click Save.</p>																									

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.

Step 11 Click **OpenStack Setup** Tab to advance to the **OpenStack Setup** page.

Step 12 In the **OpenStack Setup** page of the Cisco VIM Insight wizard, complete the following fields:

Name	Description												
<p>Neutron</p>	<p>Neutron fields would change on the basis of Tenant Network Type Selection from Blueprint Initial Setup. Following are the options available for Neutron:</p> <table border="1" data-bbox="865 436 1520 1381"> <tr> <td data-bbox="865 436 1166 554">Tenant Network Type</td> <td data-bbox="1166 436 1520 554">Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="865 554 1166 667">Mechanism Drivers</td> <td data-bbox="1166 554 1520 667">Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="865 667 1166 1003">NFV Hosts</td> <td data-bbox="1166 667 1520 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="865 1003 1166 1121">Tenant VLAN Ranges</td> <td data-bbox="1166 1003 1520 1121">Allowed with VTS/VLAN VPP/VLAN, OVS/VLAN, ACI/VLAN</td> </tr> <tr> <td data-bbox="865 1121 1166 1171">Enable Jumbo Frames</td> <td data-bbox="1166 1121 1520 1171">Check Box default is false.</td> </tr> <tr> <td data-bbox="865 1171 1166 1381"> <p>Huge page size Note : . This is available only when Compute node is present in NFV host</p> </td> <td data-bbox="1166 1171 1520 1381"> <p>The following are the drop-downs:</p> <ul style="list-style-type: none"> • 2M • 1G </td> </tr> </table> <p>For Tenant Network Type Linux Bridge everything will remain the same but Tenant VLAN Ranges will be removed.</p>	Tenant Network Type	Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.	Mechanism Drivers	Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.	NFV Hosts	Auto filled with the Compute you added in Server and Roles. If you select All in this section NFV_HOSTS: "ALL" will be added to the Blueprint or else you can select particular computes as well for eg: NFV_HOSTS: "compute-server-1, compute-server-2"	Tenant VLAN Ranges	Allowed with VTS/VLAN VPP/VLAN, OVS/VLAN, ACI/VLAN	Enable Jumbo Frames	Check Box default is false.	<p>Huge page size Note : . This is available only when Compute node is present in NFV host</p>	<p>The following are the drop-downs:</p> <ul style="list-style-type: none"> • 2M • 1G
Tenant Network Type	Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.												
Mechanism Drivers	Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.												
NFV Hosts	Auto filled with the Compute you added in Server and Roles. If you select All in this section NFV_HOSTS: "ALL" will be added to the Blueprint or else you can select particular computes as well for eg: NFV_HOSTS: "compute-server-1, compute-server-2"												
Tenant VLAN Ranges	Allowed with VTS/VLAN VPP/VLAN, OVS/VLAN, ACI/VLAN												
Enable Jumbo Frames	Check Box default is false.												
<p>Huge page size Note : . This is available only when Compute node is present in NFV host</p>	<p>The following are the drop-downs:</p> <ul style="list-style-type: none"> • 2M • 1G 												
<p>CEPH</p>	<p>Ceph has two pre-populated fields</p> <ul style="list-style-type: none"> • CEPH Mode : By default Dedicated. • NOVA Boot from: Drop Down selection. You can choose Ceph or local. 												
<p>GLANCE</p>	<p>By default populated for CEPH Dedicated with Store Backend value as CEPH.</p>												

Name	Description										
CINDER	By default Populated for CEPH Dedicated with Volume Driver value as CEPH .										
HA Proxy	Enter the Mandatory fields: <table border="1" data-bbox="829 470 1479 919"> <tbody> <tr> <td data-bbox="829 470 1154 564">External VIP Address</td> <td data-bbox="1154 470 1479 564">Enter IP Address of External VIP.</td> </tr> <tr> <td data-bbox="829 564 1154 659">External VIP Address IPv6</td> <td data-bbox="1154 564 1479 659">Enter IP v6 Address of External VIP .</td> </tr> <tr> <td data-bbox="829 659 1154 726">Virtual Router ID</td> <td data-bbox="1154 659 1479 726">Enter the Router ID for HA.</td> </tr> <tr> <td data-bbox="829 726 1154 821">Internal VIP Address</td> <td data-bbox="1154 726 1479 821">Enter IP Address of Internal VIP.</td> </tr> <tr> <td data-bbox="829 821 1154 919">Internal VIP Address IPv6</td> <td data-bbox="1154 821 1479 919">Enter IP v6 Address for Internal VIP.</td> </tr> </tbody> </table>	External VIP Address	Enter IP Address of External VIP.	External VIP Address IPv6	Enter IP v6 Address of External VIP .	Virtual Router ID	Enter the Router ID for HA.	Internal VIP Address	Enter IP Address of Internal VIP.	Internal VIP Address IPv6	Enter IP v6 Address for Internal VIP.
External VIP Address	Enter IP Address of External VIP.										
External VIP Address IPv6	Enter IP v6 Address of External VIP .										
Virtual Router ID	Enter the Router ID for HA.										
Internal VIP Address	Enter IP Address of Internal VIP.										
Internal VIP Address IPv6	Enter IP v6 Address for Internal VIP.										
Keystone	<table border="1" data-bbox="829 1010 1479 1115"> <tbody> <tr> <td data-bbox="829 1010 1154 1062">Admin Username</td> <td data-bbox="1154 1010 1479 1062">admin</td> </tr> <tr> <td data-bbox="829 1062 1154 1115">Admin Tenant Name</td> <td data-bbox="1154 1062 1479 1115">admin</td> </tr> </tbody> </table>	Admin Username	admin	Admin Tenant Name	admin						
Admin Username	admin										
Admin Tenant Name	admin										

Name	Description		
<p>LDAP</p>	<p>This is available only when Keystone v3 and LDAP both are enabled under Optional Features and Services in Blueprint Initial Setup.</p>		
	<table border="1"> <tr> <td data-bbox="865 443 1190 533">Domain Name field</td> <td data-bbox="1190 443 1515 533">Enter name for Domain name.</td> </tr> </table>	Domain Name field	Enter name for Domain name.
	Domain Name field	Enter name for Domain name.	
	<table border="1"> <tr> <td data-bbox="865 539 1190 598">Object Class for Users field</td> <td data-bbox="1190 539 1515 598">Enter a string as input.</td> </tr> </table>	Object Class for Users field	Enter a string as input.
	Object Class for Users field	Enter a string as input.	
	<table border="1"> <tr> <td data-bbox="865 604 1190 663">Object Class for Groups</td> <td data-bbox="1190 604 1515 663">Enter a string.</td> </tr> </table>	Object Class for Groups	Enter a string.
	Object Class for Groups	Enter a string.	
	<table border="1"> <tr> <td data-bbox="865 669 1190 760">Domain Name Tree for Users</td> <td data-bbox="1190 669 1515 760">Enter a string.</td> </tr> </table>	Domain Name Tree for Users	Enter a string.
	Domain Name Tree for Users	Enter a string.	
	<table border="1"> <tr> <td data-bbox="865 766 1190 856">Domain Name Tree for Groups field</td> <td data-bbox="1190 766 1515 856">Enter a string.</td> </tr> </table>	Domain Name Tree for Groups field	Enter a string.
	Domain Name Tree for Groups field	Enter a string.	
	<table border="1"> <tr> <td data-bbox="865 863 1190 953">Suffix for Domain Name field</td> <td data-bbox="1190 863 1515 953">Enter a string.</td> </tr> </table>	Suffix for Domain Name field	Enter a string.
	Suffix for Domain Name field	Enter a string.	
	<table border="1"> <tr> <td data-bbox="865 959 1190 1050">URL field</td> <td data-bbox="1190 959 1515 1050">Enter a URL with ending port number.</td> </tr> </table>	URL field	Enter a URL with ending port number.
URL field	Enter a URL with ending port number.		
<table border="1"> <tr> <td data-bbox="865 1056 1190 1146">Domain Name for Bind User field</td> <td data-bbox="1190 1056 1515 1146">Enter a string.</td> </tr> </table>	Domain Name for Bind User field	Enter a string.	
Domain Name for Bind User field	Enter a string.		
<table border="1"> <tr> <td data-bbox="865 1152 1190 1243">Password field</td> <td data-bbox="1190 1152 1515 1243">Enter Password as string format.</td> </tr> </table>	Password field	Enter Password as string format.	
Password field	Enter Password as string format.		
<table border="1"> <tr> <td data-bbox="865 1249 1190 1308">User Filter</td> <td data-bbox="1190 1249 1515 1308">Enter filter name as string.</td> </tr> </table>	User Filter	Enter filter name as string.	
User Filter	Enter filter name as string.		
<table border="1"> <tr> <td data-bbox="865 1314 1190 1373">User ID Attribute</td> <td data-bbox="1190 1314 1515 1373">Enter a string.</td> </tr> </table>	User ID Attribute	Enter a string.	
User ID Attribute	Enter a string.		
<table border="1"> <tr> <td data-bbox="865 1379 1190 1438">User Name Attribute</td> <td data-bbox="1190 1379 1515 1438">Enter a string.</td> </tr> </table>	User Name Attribute	Enter a string.	
User Name Attribute	Enter a string.		
<table border="1"> <tr> <td data-bbox="865 1444 1190 1503">User Mail Attribute</td> <td data-bbox="1190 1444 1515 1503">Enter a string.</td> </tr> </table>	User Mail Attribute	Enter a string.	
User Mail Attribute	Enter a string.		
<table border="1"> <tr> <td data-bbox="865 1509 1190 1568">Group Name Attribute</td> <td data-bbox="1190 1509 1515 1568">Enter a string.</td> </tr> </table>	Group Name Attribute	Enter a string.	
Group Name Attribute	Enter a string.		

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

Name	Description																										
	<p>Check one of the check boxes to specify a VMTP network:</p> <ul style="list-style-type: none"> • Provider Network • External Network <p>For the Provider Network complete the following:</p> <table border="1" data-bbox="865 535 1515 1178"> <tr> <td data-bbox="865 535 1190 632">Network Name field</td> <td data-bbox="1190 535 1515 632">Enter the name for the external network.</td> </tr> <tr> <td data-bbox="865 632 1190 728">IP Start field</td> <td data-bbox="1190 632 1515 728">Enter the starting floating IPv4 address.</td> </tr> <tr> <td data-bbox="865 728 1190 825">IP End field</td> <td data-bbox="1190 728 1515 825">Enter the ending floating IPv4 address.</td> </tr> <tr> <td data-bbox="865 825 1190 921">Gateway field</td> <td data-bbox="1190 825 1515 921">Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td data-bbox="865 921 1190 1018">DNS Server field</td> <td data-bbox="1190 921 1515 1018">Enter the DNS server IPv4 address.</td> </tr> <tr> <td data-bbox="865 1018 1190 1083">Segmentation ID field</td> <td data-bbox="1190 1018 1515 1083">Enter the segmentation ID.</td> </tr> <tr> <td data-bbox="865 1083 1190 1178">Subnet</td> <td data-bbox="1190 1083 1515 1178">Enter the Subnet for Provider Network.</td> </tr> </table> <p>For External Network fill in the following details:</p> <table border="1" data-bbox="865 1283 1515 1858"> <tr> <td data-bbox="865 1283 1190 1379">Network Name field</td> <td data-bbox="1190 1283 1515 1379">Enter the name for the external network.</td> </tr> <tr> <td data-bbox="865 1379 1190 1476">Network IP Start field</td> <td data-bbox="1190 1379 1515 1476">Enter the starting floating IPv4 address.</td> </tr> <tr> <td data-bbox="865 1476 1190 1572">Network IP End field</td> <td data-bbox="1190 1476 1515 1572">Enter the ending floating IPv4 address.</td> </tr> <tr> <td data-bbox="865 1572 1190 1669">Network Gateway field</td> <td data-bbox="1190 1572 1515 1669">Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td data-bbox="865 1669 1190 1766">DNS Server field</td> <td data-bbox="1190 1669 1515 1766">Enter the DNS server IPv4 address.</td> </tr> <tr> <td data-bbox="865 1766 1190 1858">Subnet</td> <td data-bbox="1190 1766 1515 1858">Enter the Subnet for External Network.</td> </tr> </table>	Network Name field	Enter the name for the external network.	IP Start field	Enter the starting floating IPv4 address.	IP End field	Enter the ending floating IPv4 address.	Gateway field	Enter the IPv4 address for the Gateway.	DNS Server field	Enter the DNS server IPv4 address.	Segmentation ID field	Enter the segmentation ID.	Subnet	Enter the Subnet for Provider Network.	Network Name field	Enter the name for the external network.	Network IP Start field	Enter the starting floating IPv4 address.	Network IP End field	Enter the ending floating IPv4 address.	Network Gateway field	Enter the IPv4 address for the Gateway.	DNS Server field	Enter the DNS server IPv4 address.	Subnet	Enter the Subnet for External Network.
Network Name field	Enter the name for the external network.																										
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Network Gateway field	Enter the IPv4 address for the Gateway.																										
DNS Server field	Enter the DNS server IPv4 address.																										
Subnet	Enter the Subnet for External Network.																										

Name	Description												
<p>TLS This optional section will only be visible once TLS is selected from Blueprint Initial Setup Page.</p>	<p>TLS has two options:</p> <ul style="list-style-type: none"> • External LB VIP FQDN - Text Field. • External LB VIP TLS - True/False. By default this option is false. 												
<p>SwiftStack optional section will be visible once SwiftStack is selected from Blueprint Initial Setup Page. SwiftStack is only supported with KeyStonev2 . If you select Keystonev3, swiftstack will not be available for configuration.</p>	<p>Following are the options that needs to be filled for SwiftStack:</p> <table border="1" data-bbox="829 663 1479 1289"> <tbody> <tr> <td data-bbox="829 663 1154 779">Cluster End Point</td> <td data-bbox="1154 663 1479 779">IP address of PAC (proxy-account-container) endpoint.</td> </tr> <tr> <td data-bbox="829 779 1154 863">Admin User</td> <td data-bbox="1154 779 1479 863">Admin user for swift to authenticate in keystone.</td> </tr> <tr> <td data-bbox="829 863 1154 1010">Admin Tenant</td> <td data-bbox="1154 863 1479 1010">The service tenant corresponding to the Account-Container used by Swiftstack.</td> </tr> <tr> <td data-bbox="829 1010 1154 1157">Reseller Prefix</td> <td data-bbox="1154 1010 1479 1157">Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_</td> </tr> <tr> <td data-bbox="829 1157 1154 1209">Admin Password</td> <td data-bbox="1154 1157 1479 1209">swiftstack_admin_password</td> </tr> <tr> <td data-bbox="829 1209 1154 1289">Protocol</td> <td data-bbox="1154 1209 1479 1289">http or https. Protocol that swiftstack is running on top</td> </tr> </tbody> </table>	Cluster End Point	IP address of PAC (proxy-account-container) endpoint.	Admin User	Admin user for swift to authenticate in keystone.	Admin Tenant	The service tenant corresponding to the Account-Container used by Swiftstack.	Reseller Prefix	Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_	Admin Password	swiftstack_admin_password	Protocol	http or https. Protocol that swiftstack is running on top
Cluster End Point	IP address of PAC (proxy-account-container) endpoint.												
Admin User	Admin user for swift to authenticate in keystone.												
Admin Tenant	The service tenant corresponding to the Account-Container used by Swiftstack.												
Reseller Prefix	Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_												
Admin Password	swiftstack_admin_password												
Protocol	http or https. Protocol that swiftstack is running on top												

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

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

Name	Description
APIC Hosts field	Enter host input. Example: <ip1 host1>:[port] . max of 3, min of 1, not 2;
apic_username field	Enter a string format.
apic_password filed	Enter Password.
apic_system_id field	Enter input as string. Max length 8.

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 openstack setup tab, the Vim_admins tab will only be visible once Vim_admins is selected from the Optional Features & Services under the Blueprint InitialSetup tab.	Following are the options that needs to be filled for Vim Admins: <ul style="list-style-type: none"> • Username - Text Field • Password - Password field. Admin hash password should always start with \$6
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Step 13 If **Syslog Export** or **NFVBENCH** is selected in **Blueprint Initial Setup** Page then, **Services Setup** page will be enabled for User to view. Following are the options under Services Setup Tab:

Name	Description												
Syslog Export	<p>Following are the options for Syslog Settings:</p> <table border="1" data-bbox="867 373 1477 709"> <tbody> <tr> <td data-bbox="867 373 1172 422">Remote Host</td> <td data-bbox="1172 373 1477 422">Enter Syslog IP Address.</td> </tr> <tr> <td data-bbox="867 422 1172 470">Protocol</td> <td data-bbox="1172 422 1477 470">Only UDP is supported.</td> </tr> <tr> <td data-bbox="867 470 1172 518">Facility</td> <td data-bbox="1172 470 1477 518">Defaults to local5.</td> </tr> <tr> <td data-bbox="867 518 1172 567">Severity</td> <td data-bbox="1172 518 1477 567">Defaults to debug.</td> </tr> <tr> <td data-bbox="867 567 1172 615">Clients</td> <td data-bbox="1172 567 1477 615">Defaults to ELK</td> </tr> <tr> <td data-bbox="867 615 1172 709">Port</td> <td data-bbox="1172 615 1477 709">Defaults to 514 but can be modified by the User.</td> </tr> </tbody> </table>	Remote Host	Enter Syslog IP Address.	Protocol	Only UDP is supported.	Facility	Defaults to local5.	Severity	Defaults to debug.	Clients	Defaults to ELK	Port	Defaults to 514 but can be modified by the User.
Remote Host	Enter Syslog IP Address.												
Protocol	Only UDP is supported.												
Facility	Defaults to local5.												
Severity	Defaults to debug.												
Clients	Defaults to ELK												
Port	Defaults to 514 but can be modified by the User.												
NFVBENCH	<p>Enable checkbox which by default is false.</p> <p>Add ToR info connected to switch:</p> <ul style="list-style-type: none"> • Select a TOR Switch. Switch- (switch name) • Enter the port number. For Example: eth1/5 . VTEP VLANS (mandatory and needed only for VTS/VXLAN,): Enter 2 different VLANs for VLAN1 and VLAN2. • NIC Ports: INT1 & INT2 Optional input, enter the 2 port numbers of the 4-port 10G Intel NIC at the management node used for NFVBench. 												

Step 14 Click **Offline validation** button to initiate an offline validation of the Blueprint.

Step 15 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, 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.
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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.



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 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

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- 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 Update	Old CIMC-COMMON password will be updated with new CIMC-COMMON password.
