



Managing Blueprints

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

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- [Creating a Blueprint for C-Series Server Platform](#), on page 12
- [Creating a Blueprint using Upload Functionality](#), on page 21
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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 22](#).

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.	<ul style="list-style-type: none"> • B-Series (By Default) • C-Series
Tenant Network drop-down. list.	Choose one of the following tenant network types: <ul style="list-style-type: none"> • Linux Bridge/VXLAN • OVS/VLAN

Name	Description
Ceph Mode drop-down list.	Choose one of the following Ceph types: <ul style="list-style-type: none"> • Dedicated (By Default) • Central
Optional Features and Services checkbox.	Swiftstack, LDAP, Syslog Export Settings, COLLECTD, Install Mode, TorSwitch Information, TLS, Nfvmon, Pod Name, VMTP, Nfvbench, Auto Backup, Heat, Keystone v3. If any one is selected, the corresponding section is visible in various Blueprint sections. By default all options are disabled.
Import Existing YAML field.	If you have an existing B Series YAML file you can use this feature to upload the file. Insight will automatically fill in the fields and if any mandatory fields are missed then the respective section will be highlighted.

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

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

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

Step 6 Click **UCSM Common** tab and fill the following fields:

Name	Description
User name disabled field.	By default value is admin.
Password text field.	Enter Password for UCSM Common (Mandatory).
UCSM IP text field.	Enter IP Address for UCSM Common (Mandatory).
Resource Prefix text field	Enter the resource prefix (Mandatory)
QOS Policy Type drop-down.	Choose one of the following types: <ul style="list-style-type: none"> • NFVI (Default) • Media

Name	Description
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).
NTP Servers field.	Enter a maximum of four and minimum of one IPv4 addresses in the table.
Domain Name Servers field.	Enter a maximum of three and minimum of one IPv4 addresses.
HTTP Proxy Server field.	If your configuration uses an HTTP proxy server, enter the IP address of the server.
HTTPS Proxy Server field.	If your configuration uses an HTTPS proxy server, enter the IP address of the server.

Name	Description														
<p>Network table.</p>	<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 Edit to enter new entries (networks) to the table. • Specify the following fields in the Edit Entry to Networks dialog: <table border="1" data-bbox="911 661 1528 1730"> <tr> <td data-bbox="911 661 1219 716">Segment drop-down list.</td> <td data-bbox="1219 661 1528 716">By Default already Selected.</td> </tr> <tr> <td data-bbox="911 716 1219 1016">Management Node IP field.</td> <td data-bbox="1219 716 1528 1016"> Enter the IP address of the build node. This field is only available for the Mgmt/Provision segment and is only Mandatory if Zenoss is selected to be a part of Blueprint. </td> </tr> <tr> <td data-bbox="911 1016 1219 1167">VALN field.</td> <td data-bbox="1219 1016 1528 1167">Enter the VLAN ID. For Segment - Provider, the VLAN ID value is always none.</td> </tr> <tr> <td data-bbox="911 1167 1219 1255">Subnet ID field.</td> <td data-bbox="1219 1167 1528 1255">Enter the IPv4 address for the subnet.</td> </tr> <tr> <td data-bbox="911 1255 1219 1344">Gateway field.</td> <td data-bbox="1219 1255 1528 1344">Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td data-bbox="911 1344 1219 1432">If Rack is chosen, the Rack Unit ID field is displayed</td> <td data-bbox="1219 1344 1528 1432">Enter a Rack Unit ID.</td> </tr> <tr> <td data-bbox="911 1432 1219 1730">Pool field.</td> <td data-bbox="1219 1432 1528 1730"> Enter the pool information in the required format, for example: 10.1.15-10.1.10,102.15-102.1.10 This field is only available for the Mgmt/Provision, Storage, and Tenant segments. </td> </tr> </table>	Segment drop-down list.	By Default already Selected.	Management Node IP field.	Enter the IP address of the build node. This field is only available for the Mgmt/Provision segment and is only Mandatory if Zenoss is selected to be a part of Blueprint.	VALN field.	Enter the VLAN ID. For Segment - Provider, the VLAN ID value is always none .	Subnet ID field.	Enter the IPv4 address for the subnet.	Gateway field.	Enter the IPv4 address for the Gateway.	If Rack is chosen, the Rack Unit ID field is displayed	Enter a Rack Unit ID.	Pool field.	Enter the pool information in the required format, for example: 10.1.15-10.1.10,102.15-102.1.10 This field is only available for the Mgmt/Provision, Storage, and Tenant segments.
Segment drop-down list.	By Default already Selected.														
Management Node IP field.	Enter the IP address of the build node. This field is only available for the Mgmt/Provision segment and is only Mandatory if Zenoss is selected to be a part of Blueprint.														
VALN field.	Enter the VLAN ID. For Segment - Provider, the VLAN ID value is always none .														
Subnet ID field.	Enter the IPv4 address for the subnet.														
Gateway field.	Enter the IPv4 address for the Gateway.														
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Pool field.	Enter the pool information in the required format, for example: 10.1.15-10.1.10,102.15-102.1.10 This field is only available for the Mgmt/Provision, Storage, and Tenant segments.														
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	
Add Entry to Servers and Roles.	Click Edit or + to add a new server and role to the 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.	It is an optional field but if provided for one server then it is mandatory to provide it for other Servers as well.	
Click Save or Add button.	Clicking Save or Add button, adds all information for Servers and Roles. Fill in all mandatory fields.	

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
Configure ToR optional checkbox .	If you enable this checkbox, the Configure ToR section will change from false to true.

Name	Description	
<p>ToR Switch Information mandatory table if you want to enter Tor information.</p>	Click + to add information for Tor Switch.	
	Name	Description
	Name	ToR switch name.
	Username	ToR switch username.
	Password	ToR switch Password.
	SSH IP	ToR switch SSH IP Address.
	SSN Num	ToR switch ssn num.
	VPC Peer Keepalive	Peer Management IP. You need not define if there is no peer.
	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.	
BR Management VLAN info	vlan id for management interface of build node (access).	
On clicking Save button, Add Tor Info Connected to Fabric field will be visible.	Port Channel field.	Enter the Port Channel input.
	Switch Name field.	Enter the friendly name.

Step 10 Click **OpenStack Setup** tab to advance to the **OpenStack Setup** 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.
	Virtual Router ID	Enter the Router ID for HA.
	Internal VIP Address	Enter IP Address of Internal VIP.
Keystone	Mandatory field and pre-populated. This option is always true.	
	Admin Username	admin.
	Admin Tenant Name	admin.
Ldap on keystone.	Ldap enable checkbox by default is false.	
	Domain Name field.	Enter name for Domain name.
	Object class for User field.	Enter a string as input.
	Object class for Group	Enter a string.
	Domain Name tree for Groups	Enter a string.
	Domain Name tree for User 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.	

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="867 451 1529 1276"> <tr> <td data-bbox="867 451 1195 604">Tenant Network Type</td> <td data-bbox="1195 451 1529 604">Auto Filled based on the Tenant Network Type selected in the Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="867 604 1195 722">Mechanism Drivers</td> <td data-bbox="1195 604 1529 722">Auto Filled based on the Tenant Network Type selected in Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="867 722 1195 1129">NFV Hosts</td> <td data-bbox="1195 722 1529 1129"> Auto filled with the Compute you added in Server and Roles. If you select All in this section NFV_HOSTS: ALL will be added to the Blueprint or you can select one particular compute. For Eg: NFV_HOSTS: compute-server-1, compute-server-2. </td> </tr> <tr> <td data-bbox="867 1129 1195 1220">Tenant VLAN Ranges</td> <td data-bbox="1195 1129 1529 1220">List of ranges separated by comma of formstart:end.</td> </tr> <tr> <td data-bbox="867 1220 1195 1276">Enable Jumbo Frames</td> <td data-bbox="1195 1220 1529 1276">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 formstart:end.	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 formstart:end.										
Enable Jumbo Frames	Check Box										
<p>CEPH</p>	<p>Ceph has two pre-populated fields</p> <ul style="list-style-type: none"> • CEPH Mode: By default Dedicated. • NOVA Boot from: From the drop-down, choose Ceph or local. 										
<p>GLANCE</p>	<p>By default Populated for CEPH Dedicated with Store Backend value as CEPH.</p>										
<p>CINDER</p>	<p>By default Populated for CEPH Dedicated with Volume Driver value as CEPH.</p>										

Name	Description																										
<p>VMTP optional section will only be visible once VMTP is selected from Blueprint Initial Setup.</p>	<p>Check one of the check boxes to specify a VMTP network:</p> <ul style="list-style-type: none"> • Provider Network • External Network <p>For the Provider Network complete the following:</p> <table border="1" data-bbox="829 501 1487 1098"> <tr> <td data-bbox="829 501 1159 590">Network Name field.</td> <td data-bbox="1159 501 1487 590">Enter the name for the external network.</td> </tr> <tr> <td data-bbox="829 590 1159 678">IP Start field.</td> <td data-bbox="1159 590 1487 678">Enter the starting floating IPv4 address.</td> </tr> <tr> <td data-bbox="829 678 1159 766">IP End field.</td> <td data-bbox="1159 678 1487 766">Enter the ending floating IPv4 address.</td> </tr> <tr> <td data-bbox="829 766 1159 854">Gateway field</td> <td data-bbox="1159 766 1487 854">Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td data-bbox="829 854 1159 942">DNS Server field.</td> <td data-bbox="1159 854 1487 942">Enter the DNS server IPv4 address.</td> </tr> <tr> <td data-bbox="829 942 1159 1031">Segmentation ID field.</td> <td data-bbox="1159 942 1487 1031">Enter the segmentation ID.</td> </tr> <tr> <td data-bbox="829 1031 1159 1098">Subnet</td> <td data-bbox="1159 1031 1487 1098">Enter the Subnet for Provider Network.</td> </tr> </table> <p>For External Network fill in the following details:</p> <table border="1" data-bbox="829 1165 1487 1696"> <tr> <td data-bbox="829 1165 1159 1253">Network Name field.</td> <td data-bbox="1159 1165 1487 1253">Enter the name for the external network.</td> </tr> <tr> <td data-bbox="829 1253 1159 1341">Network IP Start field.</td> <td data-bbox="1159 1253 1487 1341">Enter the starting floating IPv4 address.</td> </tr> <tr> <td data-bbox="829 1341 1159 1430">Network IP End field.</td> <td data-bbox="1159 1341 1487 1430">Enter the ending floating IPv4 address.</td> </tr> <tr> <td data-bbox="829 1430 1159 1518">Network Gateway field</td> <td data-bbox="1159 1430 1487 1518">Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td data-bbox="829 1518 1159 1606">DNS Server field.</td> <td data-bbox="1159 1518 1487 1606">Enter the DNS server IPv4 address.</td> </tr> <tr> <td data-bbox="829 1606 1159 1696">Subnet</td> <td data-bbox="1159 1606 1487 1696">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 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	Description												
<p>TLS section will be visible if TLS is selected from Blueprint Initial Setup Page.</p>	<p>TLS has two options:</p> <ul style="list-style-type: none"> • External LB VIP FQDN - Text Field. • External LB VIP TLS - True/False. By default this option is false. 												
<p>SwiftStack optional section will be visible if SwiftStack is selected from Blueprint Initial Setup Page. SwiftStack is only supported with KeyStonev2 . If you select Keystonev3, swiftstack cannot be configured.</p>	<p>Following are the options that needs to be filled for SwiftStack:</p> <table border="1" data-bbox="867 541 1523 1171"> <tbody> <tr> <td data-bbox="867 541 1195 663">Cluster End Point</td> <td data-bbox="1195 541 1523 663">IP address of PAC (proxy-account-container) endpoint.</td> </tr> <tr> <td data-bbox="867 663 1195 751">Admin User</td> <td data-bbox="1195 663 1523 751">Admin user for swift to authenticate in keystone.</td> </tr> <tr> <td data-bbox="867 751 1195 907">Admin Tenant</td> <td data-bbox="1195 751 1523 907">The service tenant corresponding to the Account-Container used by Swiftstack.</td> </tr> <tr> <td data-bbox="867 907 1195 1062">Reseller Prefix</td> <td data-bbox="1195 907 1523 1062">Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_</td> </tr> <tr> <td data-bbox="867 1062 1195 1117">Admin Password</td> <td data-bbox="1195 1062 1523 1117">swiftstack_admin_password</td> </tr> <tr> <td data-bbox="867 1117 1195 1171">Protocol</td> <td data-bbox="1195 1117 1523 1171">http or https</td> </tr> </tbody> </table>	Cluster End Point	IP address of PAC (proxy-account-container) endpoint.	Admin User	Admin user for swift to authenticate in keystone.	Admin Tenant	The service tenant corresponding to the Account-Container used by Swiftstack.	Reseller Prefix	Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_	Admin Password	swiftstack_admin_password	Protocol	http or https
Cluster End Point	IP address of PAC (proxy-account-container) endpoint.												
Admin User	Admin user for swift to authenticate in keystone.												
Admin Tenant	The service tenant corresponding to the Account-Container used by Swiftstack.												
Reseller Prefix	Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_												
Admin Password	swiftstack_admin_password												
Protocol	http or https												

Step 12

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

Name	Description										
<p>Syslog Export.</p>	<p>Following are the options for Syslog Settings:</p> <table border="1" data-bbox="867 1407 1523 1724"> <tbody> <tr> <td data-bbox="867 1407 1195 1461">Remote Host</td> <td data-bbox="1195 1407 1523 1461">Enter Syslog IP Address.</td> </tr> <tr> <td data-bbox="867 1461 1195 1516">Facility</td> <td data-bbox="1195 1461 1523 1516">Defaults to local5</td> </tr> <tr> <td data-bbox="867 1516 1195 1570">Severity</td> <td data-bbox="1195 1516 1523 1570">Defaults to debug</td> </tr> <tr> <td data-bbox="867 1570 1195 1625">Clients</td> <td data-bbox="1195 1570 1523 1625">Defaults to ELK</td> </tr> <tr> <td data-bbox="867 1625 1195 1724">Port</td> <td data-bbox="1195 1625 1523 1724">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.										

Name	Description
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 • 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 **Offlinevalidation** button to initiate an offline Blueprint validation.

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

Creating a Blueprint for C-Series Server Platform

Typically, you create the blueprint when you create the Cisco VIM pod. You can use this procedure to create an additional blueprint for a pod that uses C-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	<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 • ML2VPP/VLAN

Name	Description
Ceph Mode drop-down list	Choose one of the following Ceph types: <ul style="list-style-type: none"> • Dedicated (By Default) • Central
Optional Features and Services checkbox.	Swiftstack, LDAP, Syslog Export Settings, COLLECTD, Install Mode, TorSwitch Information, TLS, Nfvmon, Pod Name, VMTP, Nfvbench, Auto Backup, Heat, Keystone v3 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 (Mandatory).
NTP Servers field.	Enter a maximum of four and minimum of one IPv4 addresses in the table.

Name	Description
Domain Name Servers field	Enter a maximum of three and minimum of one IPv4 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	By default Selected.
Management Node IP field.	Enter the IP address of the build node. This field is only available for the Mgmt/Provision segment and is only Mandatory if Zenoss is selected as part of Blueprint.
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.
Gateway field	Enter the IPv4 address for the Gateway.
Pool field	Enter the pool information in the required format, for example: 10.1.1.5-10.1.1.10,10.2.1.5-10.2.1.10 This field is only available for the Mgmt/Provision, Storage, and Tenant segments.
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	
Add Entry to Servers and Roles .	Click Edit or + to add a new server and role to the table.	
	Server Name	Entry a friendly name .
	Boot Drive drop-down list.	Choose LOCALHDD or SDCARD from the drop-down list.
	Rack ID field.	The rack ID for the server.
	VIC Slot field.	Enter a VIC Slot.
	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 BlockStorage 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.	
If ToR checkbox is selected with an entry, this field will be displayed.	<ul style="list-style-type: none"> • Port Channel field. • Switch Name field. 	<ul style="list-style-type: none"> • Enter the Port Channel input • Enter the friendly name
If Intel NIC support is checked in server and roles with ToR being selected.	Add SRIOV ToR info connected to switch.	Enter the switch-name.
If Intel NIC is checked with an entry of integer value, then Add DP ToR info is connected to switch filed.	<ul style="list-style-type: none"> • Port Channel field. • Switch-Name field. 	<ul style="list-style-type: none"> • Enter the Port channel. • Enter the string.
Click Save or Add button.	If all mandatory fields are filled click Save or Add button information for Servers and Roles	

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	
Configure TOR optional checkbox.	If you enable this checkbox configure tor section would be changed from false to true.	

Name	Description																										
TOR Switch Information mandatory table if you want to enter ToR information.	Click + to add information for ToR Switch.																										
	<table border="1"> <thead> <tr> <th data-bbox="776 344 1133 394">Name</th> <th data-bbox="1133 344 1481 394">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="776 394 1133 453">Name</td> <td data-bbox="1133 394 1481 453">ToR Switch Name.</td> </tr> <tr> <td data-bbox="776 453 1133 512">Username</td> <td data-bbox="1133 453 1481 512">TOR switch username</td> </tr> <tr> <td data-bbox="776 512 1133 571">Password</td> <td data-bbox="1133 512 1481 571">ToR switch Password</td> </tr> <tr> <td data-bbox="776 571 1133 630">SSH IP</td> <td data-bbox="1133 571 1481 630">TOR switch ssh ip</td> </tr> <tr> <td data-bbox="776 630 1133 688">SSN Num</td> <td data-bbox="1133 630 1481 688">TOR switch ssn num</td> </tr> <tr> <td data-bbox="776 688 1133 772">VPC Peer Keepalive</td> <td data-bbox="1133 688 1481 772">Peer Management IP. Do not define if there is no peer</td> </tr> <tr> <td data-bbox="776 772 1133 831">VPC Domain</td> <td data-bbox="1133 772 1481 831">Do not define if there is no peer</td> </tr> <tr> <td data-bbox="776 831 1133 890">VPC Peer Port Info</td> <td data-bbox="1133 831 1481 890">Interface for vpc peer ports</td> </tr> <tr> <td data-bbox="776 890 1133 974">VPC Peer VLAN Info</td> <td data-bbox="1133 890 1481 974">vlan ids for vpc peer ports (optional)</td> </tr> <tr> <td data-bbox="776 974 1133 1058">BR Management Port Info</td> <td data-bbox="1133 974 1481 1058">Management interface of build node</td> </tr> <tr> <td data-bbox="776 1058 1133 1142">BR Management PO Info</td> <td data-bbox="1133 1058 1481 1142">Port channel number for management interface of build node</td> </tr> <tr> <td data-bbox="776 1142 1133 1276">BR Management VLAN info</td> <td data-bbox="1133 1142 1481 1276">vlan id for management interface of build node (access)</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	BR Management VLAN info	vlan id for management interface of build node (access)
	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																										
BR Management VLAN info	vlan id for management interface of build node (access)																										
Click Save.																											

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		
HA Proxy	Mandatory Field. Fill in the following details:		
	<table border="1"> <tr> <td data-bbox="831 1577 1159 1661"> External VIP Address </td> <td data-bbox="1159 1577 1481 1661"> Enter IP Address of External VIP </td> </tr> </table>	External VIP Address	Enter IP Address of External VIP
	External VIP Address	Enter IP Address of External VIP	
	<table border="1"> <tr> <td data-bbox="831 1669 1159 1715"> Virtual Router ID </td> <td data-bbox="1159 1669 1481 1715"> Enter the Router ID for HA </td> </tr> </table>	Virtual Router ID	Enter the Router ID for HA
Virtual Router ID	Enter the Router ID for HA		
<table border="1"> <tr> <td data-bbox="831 1724 1159 1810"> Internal VIP Address </td> <td data-bbox="1159 1724 1481 1810"> Enter IP Address of Internal VIP </td> </tr> </table>	Internal VIP Address	Enter IP Address of Internal VIP	
Internal VIP Address	Enter IP Address of Internal VIP		

Name	Description		
Keystone	Mandatory field and prepopulated. This option would always be true.		
	<table border="1"> <tr> <td data-bbox="868 375 1198 422">Admin Username</td> <td data-bbox="1198 375 1523 422">admin</td> </tr> </table>	Admin Username	admin
	Admin Username	admin	
<table border="1"> <tr> <td data-bbox="868 428 1198 474">Admin Tenant Name</td> <td data-bbox="1198 428 1523 474">admin</td> </tr> </table>	Admin Tenant Name	admin	
Admin Tenant Name	admin		
Ldap on keystone	Ldap enable checkbox by default is false .		
	<table border="1"> <tr> <td data-bbox="868 546 1198 594">Domain Namefield.</td> <td data-bbox="1198 546 1523 594">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="868 600 1198 648">Object class for Userfield.</td> <td data-bbox="1198 600 1523 648">Enter a string as input.</td> </tr> </table>	Object class for User field.	Enter a string as input.
	Object class for User field.	Enter a string as input.	
	<table border="1"> <tr> <td data-bbox="868 655 1198 703">Object class for Group</td> <td data-bbox="1198 655 1523 703">Enter a string.</td> </tr> </table>	Object class for Group	Enter a string.
	Object class for Group	Enter a string.	
	<table border="1"> <tr> <td data-bbox="868 709 1198 800">Domain Name tree for Groups</td> <td data-bbox="1198 709 1523 800">Enter a string.</td> </tr> </table>	Domain Name tree for Groups	Enter a string.
	Domain Name tree for Groups	Enter a string.	
	<table border="1"> <tr> <td data-bbox="868 806 1198 896">Domain Name tree for User field.</td> <td data-bbox="1198 806 1523 896">Enter a string.</td> </tr> </table>	Domain Name tree for User field.	Enter a string.
Domain Name tree for User field.	Enter a string.		
<table border="1"> <tr> <td data-bbox="868 903 1198 972">Suffix for domain name field.</td> <td data-bbox="1198 903 1523 972">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="868 978 1198 1068">URL field.</td> <td data-bbox="1198 978 1523 1068">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="868 1075 1198 1144">Domain Name for Bind User field.</td> <td data-bbox="1198 1075 1523 1144">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="868 1150 1198 1241">Password field.</td> <td data-bbox="1198 1150 1523 1241">Enter Password as string format.</td> </tr> </table>	Password field.	Enter Password as string format.	
Password field.	Enter Password as string format.		

Name	Description										
Neutron	<p>Neutron fields would change on the basis of Tenant Network Type Selection from Blueprint Initial Setup. Following are the options available for Neutron for OVS/VLAN:</p> <table border="1" data-bbox="834 405 1484 1094"> <tr> <td data-bbox="834 405 1135 520">Tenant Network Type</td> <td data-bbox="1140 405 1484 520">Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="834 527 1135 630">Mechanism Drivers</td> <td data-bbox="1140 527 1484 630">Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="834 636 1135 961">NFV Hosts</td> <td data-bbox="1140 636 1484 961">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 particlula computes as well for eg: NFV_HOSTS: "compute-server-1, compute-server-2"</td> </tr> <tr> <td data-bbox="834 968 1135 1045">Tenant VLAN Ranges</td> <td data-bbox="1140 968 1484 1045">Only with VTS/VLAN and VPP/VLAN</td> </tr> <tr> <td data-bbox="834 1052 1135 1094">Enable Jumbo Frames</td> <td data-bbox="1140 1052 1484 1094">Check Box default is false</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 particlula computes as well for eg: NFV_HOSTS: "compute-server-1, compute-server-2"	Tenant VLAN Ranges	Only with VTS/VLAN and VPP/VLAN	Enable Jumbo Frames	Check Box default is false
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 particlula computes as well for eg: NFV_HOSTS: "compute-server-1, compute-server-2"										
Tenant VLAN Ranges	Only with VTS/VLAN and VPP/VLAN										
Enable Jumbo Frames	Check Box default is false										
CEPH	<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. 										
GLANCE	<p>By default populated for CEPH Dedicated with Store Backend value as CEPH.</p>										
CINDER	<p>By default Populated for CEPH Dedicated with Volume Driver value as CEPH.</p>										

Name	Description	
<p>VMTP optional section will only be visible once VMTP is selected from Blueprint Initial Setup.</p>	<p>Check one of the check boxes to specify a VMTP network:</p> <ul style="list-style-type: none"> • Provider Network • External Network <p>For the Provider Network complete the following:</p>	
	<p>Network Name field</p>	<p>Enter the name for the external network.</p>
	<p>IP Start field</p>	<p>Enter the starting floating IPv4 address.</p>
	<p>IP End field</p>	<p>Enter the ending floating IPv4 address.</p>
	<p>Gateway field</p>	<p>Enter the IPv4 address for the Gateway.</p>
	<p>DNS Server field</p>	<p>Enter the DNS server IPv4 address.</p>
	<p>Segmentation ID field</p>	<p>Enter the segmentation ID.</p>
	<p>Subnet</p>	<p>Enter the Subnet for Provider Network.</p>
	<p>For External Network fill in the following details:</p>	
	<p>Network Name field</p>	<p>Enter the name for the external network.</p>
	<p>Network IP Start field</p>	<p>Enter the starting floating IPv4 address.</p>
	<p>Network IP End field</p>	<p>Enter the ending floating IPv4 address.</p>
	<p>Network Gateway field</p>	<p>Enter the IPv4 address for the Gateway.</p>
	<p>DNS Server field</p>	<p>Enter the DNS server IPv4 address.</p>
<p>Subnet</p>	<p>Enter the Subnet for External Network.</p>	

Name	Description												
TLS This optional section will only be visible once TLS is selected from Blueprint Initial Setup Page.	<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"> <tbody> <tr> <td>Cluster End Point</td> <td>IP address of PAC (proxy-account-container) endpoint.</td> </tr> <tr> <td>Admin User</td> <td>Admin user for swift to authenticate in keystone.</td> </tr> <tr> <td>Admin Tenant</td> <td>The service tenant corresponding to the Account-Container used by Swiftstack.</td> </tr> <tr> <td>Reseller Prefix</td> <td>Reseller_prefix as configured for 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> </tbody> </table>	Cluster End Point	IP address of PAC (proxy-account-container) endpoint.	Admin User	Admin user for swift to authenticate in keystone.	Admin Tenant	The service tenant corresponding to the Account-Container used by Swiftstack.	Reseller Prefix	Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_	Admin Password	swiftstack_admin_password	Protocol	http or https ?
	Cluster End Point	IP address of PAC (proxy-account-container) endpoint.											
	Admin User	Admin user for swift to authenticate in keystone.											
	Admin Tenant	The service tenant corresponding to the Account-Container used by Swiftstack.											
	Reseller Prefix	Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_											
	Admin Password	swiftstack_admin_password											
Protocol	http or https ?												

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"> <tbody> <tr> <td>Remote Host</td> <td>Enter Syslog IP Address</td> </tr> <tr> <td>Protocol</td> <td>Drop-down selection for UDP and TCP. By default its UDP</td> </tr> <tr> <td>Facility</td> <td>Defaults to local5</td> </tr> <tr> <td>Severity</td> <td>Defaults to debug</td> </tr> <tr> <td>Clients</td> <td>Defaults to ELK</td> </tr> <tr> <td>Port</td> <td>Defaults to 514 but can be modified by the User.</td> </tr> </tbody> </table>	Remote Host	Enter Syslog IP Address	Protocol	Drop-down selection for UDP and TCP. By default its UDP	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	Drop-down selection for UDP and TCP. By default its UDP												
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, e.g. eth1/5 • 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 **Offlinevalidation** button to initiate an offline validation of the Blueprint.

Step 15 Once the **Offlinevalidation** 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 2.0, we use ELK (elasticsearch, logstash 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 **Click here to view Kibana logs in new tab** link.

Cross Launching Horizon

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

- Step 1** In the **Navigation** pane, click **Post-Install > Horizon**.
- Step 2** Click the link **Click here to view Horizon logs in new tab**.
You will be redirected to Horizon landing page in a new tab.
-

Run VMTP

Run VMTP is divided in two sections:

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



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

Run CloudPulse

Following are the tests supported in CloudPulse:

1. cinder_endpoint
2. glance_endpoint
3. keystone_endpoint
4. nova_endpoint
5. neutron_endpoint
6. rabbitmq_check
7. galera_check
8. ceph_check