



Managing Blueprints

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

- [Blueprints](#), page 1
- [Creating a Blueprint for B-Series Server Platform](#), page 2
- [Creating a Blueprint for C-Series Server Platform](#), page 17
- [Creating a Blueprint using Upload Functionality](#), page 32
- [Managing Post Install Features](#), page 35

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 33.

Viewing Blueprint Details

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

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- Step 1** Log in to Cisco VIM Insight as pod User.
 - Step 2** In the Dashboard's Switch between Management Nodes, select the Cisco VIM pod with the blueprint that you want to view.
 - Step 3** Click **Menu** button at the top left corner to expand the navigation pane.
 - Step 4** Choose **Pre-Install > Blueprint Management**.
 - Step 5** Choose a blueprint from the list.
 - Step 6** Click **Preview & Download YAML**.
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Creating a Blueprint for B-Series Server Platform

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

Before You Begin

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

-
- Step 1** Log-in to Cisco VIM Insight.
 - Step 2** In the **Navigation** pane, expand the **Pre-Install Section**.
 - Step 3** Click **Blueprint Setup**.
 - Step 4** On the **Blueprint Initial Setup** page of the Cisco VIM Insight, complete the following fields:

Name	Description
Blueprint Name field	Enter the name for the blueprint configuration.
Platform Type drop-down list	<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 (By Default) Central (not supported in production)
Pod Type drop-down list	Fullon (By default).
Optional Features and Services checkbox	Swiftstack, LDAP, Syslog Export Settings, Install Mode, TorSwitch Information, TLS, Nfvmon, Pod Name, VMTP, Nfvbench, Auto Backup, Heat, Keystone v3. 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.

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

Name	Description
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 Edit to enter new entries (networks) to the table. • Specify the following fields in the Edit Entry to Networks dialog: <table border="1"> <tbody> <tr> <td>Segment drop-down list</td> <td> 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>IPv6 Subnet field</td> <td>Enter Ipv6 Address. This field will be available only for Management provision and API .</td> </tr> <tr> <td>VALN field</td> <td>Enter the VLAN ID. For Segment - Provider, the VLAN ID value is always none.</td> </tr> <tr> <td>Subnet field.</td> <td>Enter the IPv4 address for the subnet.</td> </tr> <tr> <td>Gateway field</td> <td>Enter the IPv4 address for the Gateway.</td> </tr> </tbody> </table>	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>	IPv6 Subnet field	Enter Ipv6 Address. This field will be available only for Management provision and API .	VALN 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.
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>										
IPv6 Subnet field	Enter Ipv6 Address. This field will be available only for Management provision and API .										
VALN 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.										

Name	Description	
	IPv6 Gateway field	Enter IPv6 gateway. This field is only available for the Mgmt/Provision, Storage, and API Segments.
	Pool field	Enter the pool information in the required format: Example: 10.30.1.1 or 10.30.1.1 to 10.30.1.12
	IPv6 Pool field.	Enter the pool information in the required format, for example: 10.1.15-10.1.1.10,10.2.15-10.2.1.10 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.	<p>Click Edit or + to add a new server and role to the table.</p> <table border="1"> <tbody> <tr> <td>Server Name</td> <td>Enter a server name.</td> </tr> <tr> <td>Server Type drop-down list.</td> <td>Choose Blade or Rack from the drop-down list.</td> </tr> <tr> <td>Rack ID field.</td> <td>The Rack ID for the server.</td> </tr> <tr> <td>Chassis ID field</td> <td>Enter a Chassis ID.</td> </tr> <tr> <td>If Rack is chosen, the Rack Unit ID field is displayed.</td> <td>Enter a Rack Unit ID.</td> </tr> <tr> <td>If Blade is chosen, the Blade ID field is displayed.</td> <td>Enter a Blade ID.</td> </tr> <tr> <td>Select the Role from the drop down list.</td> <td>If Server type is Blade then Control and Compute. If Rack is selected then Block Storage.</td> </tr> <tr> <td>Management IP field.</td> <td>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>Management IPv6 field.</td> <td>Enter Management Ipv6 address.</td> </tr> </tbody> </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.																		
Server Type drop-down list.	Choose Blade or Rack from the drop-down list.																		
Rack ID field.	The Rack ID for the server.																		
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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.																		
Click Save or Add.	<p>Clicking Save or Add, adds all information for Servers and Roles.</p> <p>Fill in all mandatory fields.</p>																		
Disable Hyperthreading	True or False. Default is false.																		

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>	<p>Click + to add information for Tor Switch.</p> <table border="1"> <thead> <tr> <th>Name</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Name</td> <td>ToR switch name.</td> </tr> <tr> <td>Username</td> <td>ToR switch username.</td> </tr> <tr> <td>Password</td> <td>ToR switch Password.</td> </tr> <tr> <td>SSH IP</td> <td>ToR switch SSH IP Address.</td> </tr> <tr> <td>SSN Num</td> <td>ToR switch ssn num. output of show license host-id.</td> </tr> <tr> <td>VPC Peer Keepalive</td> <td>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>VPC Domain</td> <td>Need not define if there is no peer.</td> </tr> <tr> <td>VPC Peer port</td> <td>Interface for vpc peer ports.</td> </tr> <tr> <td>VPC Peer VLAN Info</td> <td>vlan ids for vpc peer ports (optional).</td> </tr> <tr> <td>BR Management Port Info</td> <td>Management interface of build node.</td> </tr> <tr> <td>BR Management PO Info</td> <td>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.																									
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.																									
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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>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: <table border="1"> <tbody> <tr> <td>External VIP Address</td> <td>Enter IP address of External VIP.</td> </tr> <tr> <td>External VIP Address IPv6</td> <td>Enter IPv6 address of External VIP.</td> </tr> <tr> <td>Virtual Router ID</td> <td>Enter the Router ID for HA.</td> </tr> <tr> <td>Internal VIP Address IPv6</td> <td>Enter IPv6 address.</td> </tr> <tr> <td>Internal VIP Address</td> <td>Enter IP address of Internal VIP.</td> </tr> </tbody> </table>	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.
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. <table border="1"> <tbody> <tr> <td>Admin Username</td> <td>admin.</td> </tr> <tr> <td>Admin Tenant Name</td> <td>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>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"> <tbody> <tr> <td>Domain Name field</td> <td>Enter name for Domain name.</td> </tr> <tr> <td>Object Class for Users field</td> <td>Enter a string as input.</td> </tr> <tr> <td>Object Class for Groups</td> <td>Enter a string.</td> </tr> <tr> <td>Domain Name Tree for Users</td> <td>Enter a string.</td> </tr> <tr> <td>Domain Name Tree for Groups field</td> <td>Enter a string.</td> </tr> <tr> <td>Suffix for Domain Name field</td> <td>Enter a string.</td> </tr> <tr> <td>URL field</td> <td>Enter a URL with ending port number.</td> </tr> <tr> <td>Domain Name for Bind User field</td> <td>Enter a string.</td> </tr> <tr> <td>Password field</td> <td>Enter Password as string format.</td> </tr> <tr> <td>User Filter</td> <td>Enter filter name as string.</td> </tr> <tr> <td>User ID Attribute</td> <td>Enter a string.</td> </tr> <tr> <td>User Name Attribute</td> <td>Enter a string.</td> </tr> <tr> <td>User Mail Attribute</td> <td>Enter a string.</td> </tr> <tr> <td>Group Name Attribute</td> <td>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	Enter filter name as string.	User ID Attribute	Enter a string.	User Name Attribute	Enter a string.	User Mail Attribute	Enter a string.	Group Name Attribute	Enter a string.
Domain Name field	Enter name for Domain name.																												
Object Class for Users field	Enter a string as input.																												
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Suffix for Domain Name field	Enter a string.																												
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Password field	Enter Password as string format.																												
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User ID Attribute	Enter a string.																												
User Name Attribute	Enter a string.																												
User Mail Attribute	Enter a string.																												
Group Name Attribute	Enter a string.																												

Name	Description														
Neutron	<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"> <tbody> <tr> <td>Tenant Network Type</td> <td>Auto Filled based on the Tenant Network Type selected in the Blueprint Initial Setup page.</td> </tr> <tr> <td>Mechanism Drivers</td> <td>Auto Filled based on the Tenant Network Type selected in Blueprint Initial Setup page.</td> </tr> <tr> <td>NFV Hosts</td> <td> Auto filled with the Compute you added in Server and Roles. If you select All in this section NFV_HOSTS: ALL will be added to the Blueprint or you can select one particular compute. For Eg: NFV_HOSTS: compute-server-1, compute-server-2. </td> </tr> <tr> <td>Tenant VLAN Ranges</td> <td>List of ranges separated by comma of form start:end.</td> </tr> <tr> <td>Provider VLAN Ranges</td> <td>List of ranges separated by comma of form start:end.</td> </tr> <tr> <td>VM Hugh Page Size (available for NFV_HOSTS option)</td> <td>2M or 1G</td> </tr> <tr> <td>Enable Jumbo Frames</td> <td>Check Box</td> </tr> </tbody> </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>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"> <tr> <td>Network Name field.</td> <td>Enter the name for the external network.</td> </tr> <tr> <td>IP Start field.</td> <td>Enter the starting floating IPv4 address.</td> </tr> <tr> <td>IP End field.</td> <td>Enter the ending floating IPv4 address.</td> </tr> <tr> <td>Gateway field</td> <td>Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td>DNS Server field.</td> <td>Enter the DNS server IPv4 address.</td> </tr> <tr> <td>Segmentation ID field.</td> <td>Enter the segmentation ID.</td> </tr> <tr> <td>Subnet</td> <td>Enter the Subnet for Provider Network.</td> </tr> <tr> <td></td> <td></td> </tr> </table> <p>For External Network fill in the following details:</p> <table border="1"> <tr> <td>Network Name field.</td> <td>Enter the name for the external network.</td> </tr> <tr> <td>Network IP Start field.</td> <td>Enter the starting floating IPv4 address.</td> </tr> <tr> <td>Network IP End field.</td> <td>Enter the ending floating IPv4 address.</td> </tr> <tr> <td>Network Gateway field</td> <td>Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td>DNS Server field.</td> <td>Enter the DNS server IPv4 address.</td> </tr> <tr> <td>Subnet</td> <td>Enter the Subnet for External</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 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																												

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

- Step 13** Click **Offline validation** to initiate an offline Blueprint validation.
- Step 14** Once the **Offline validation** is successful, **Save** option will be enabled which will redirect you to the **Blueprint Management** page.

Creating a Blueprint for C-Series Server Platform

- 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
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</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 elected.</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 Acinfra 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																			
<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"> <tr> <td>Server Name</td> <td>Entry the server name .</td> </tr> <tr> <td>Rack ID field</td> <td>The rack ID for the server.</td> </tr> <tr> <td>VIC Slot field</td> <td>Enter a VIC Slot.</td> </tr> <tr> <td>Management IPv6field</td> <td>This is optional field. Enter Ipv6 format address</td> </tr> <tr> <td>CIMC IP field</td> <td>Enter a IP address.</td> </tr> <tr> <td>CIMC Username field</td> <td>Enter a Username.</td> </tr> <tr> <td>CIMC Password field</td> <td>Enter a Password for CIMC</td> </tr> <tr> <td>Select the Role from the drop down list</td> <td>Choose Control or Compute or Block Storage from the drop-down list.</td> </tr> <tr> <td>Management IP</td> <td>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	Entry 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	Entry 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																			
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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"> • Port Channel field. • Switch-Name field. 	<ul style="list-style-type: none"> • Enter the Port channel. • Enter the string.
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"> <thead> <tr> <th>Name</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Name</td> <td>ToR Switch Name.</td> </tr> <tr> <td>Username</td> <td>TOR switch username</td> </tr> <tr> <td>Password</td> <td>ToR switch Password</td> </tr> <tr> <td>SSH IP</td> <td>TOR switch ssh ip</td> </tr> <tr> <td>SSN Num</td> <td>TOR switch ssn num</td> </tr> <tr> <td>VPC Peer Keepalive</td> <td>Peer Management IP. Do not define if there is no peer</td> </tr> <tr> <td>VPC Domain</td> <td>Do not define if there is no peer</td> </tr> <tr> <td>VPC Peer Port Info</td> <td>Interface for vpc peer ports</td> </tr> <tr> <td>VPC Peer VLAN Info</td> <td>vlan ids for vpc peer ports (optional)</td> </tr> <tr> <td>BR Management Port Info</td> <td>Management interface of build node</td> </tr> <tr> <td>BR Management PO Info</td> <td>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.																								
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																								
<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"> <tr> <td>Tenant Network Type</td> <td>Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.</td> </tr> <tr> <td>Mechanism Drivers</td> <td>Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.</td> </tr> <tr> <td>NFV Hosts</td> <td>Auto filled with the Compute you added in Server and Roles. If you select All in this section NFV_HOSTS: "ALL" will be added to the Blueprint or else you can select particular computes as well for eg: NFV_HOSTS: "compute-server-1, compute-server-2"</td> </tr> <tr> <td>Tenant VLAN Ranges</td> <td>Only with VTS/VLAN and VPP/VLAN.</td> </tr> <tr> <td>Enable Jumbo Frames</td> <td>Check Box default is false.</td> </tr> <tr> <td>Huge page size Note : . This is available only when Compute node is present in NFV host</td> <td> The following are the drop-downs: <ul style="list-style-type: none"> • 2M • 1G </td> </tr> </table> <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	Only with VTS/VLAN and VPP/VLAN.	Enable Jumbo Frames	Check Box default is false.	Huge page size Note : . This is available only when Compute node is present in NFV host	The following are the drop-downs: <ul style="list-style-type: none"> • 2M • 1G
Tenant Network Type	Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.												
Mechanism Drivers	Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.												
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	Only with VTS/VLAN and VPP/VLAN.												
Enable Jumbo Frames	Check Box default is false.												
Huge page size Note : . This is available only when Compute node is present in NFV host	The following are the drop-downs: <ul style="list-style-type: none"> • 2M • 1G 												
<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	<table border="1"> <tr> <td>External VIP Address</td> <td>Enter IP Address of External VIP.</td> </tr> <tr> <td>External VIP Address IPv6</td> <td>Enter IP Address of External VIP for IPv6.</td> </tr> <tr> <td>Virtual Router ID</td> <td>Enter the Router ID for HA.</td> </tr> <tr> <td>Internal VIP Address</td> <td>Enter IP Address of Internal VIP.</td> </tr> <tr> <td>Internal VIP Address IPv6</td> <td>Enter the IP Address for Internal VIP IPv6.</td> </tr> </table>		External VIP Address	Enter IP Address of External VIP.	External VIP Address IPv6	Enter IP Address of External VIP for IPv6.	Virtual Router ID	Enter the Router ID for HA.	Internal VIP Address	Enter IP Address of Internal VIP.	Internal VIP Address IPv6	Enter the IP Address for Internal VIP IPv6.
External VIP Address	Enter IP Address of External VIP.											
External VIP Address IPv6	Enter IP Address of External VIP for IPv6.											
Virtual Router ID	Enter the Router ID for HA.											
Internal VIP Address	Enter IP Address of Internal VIP.											
Internal VIP Address IPv6	Enter the IP Address for Internal VIP IPv6.											
Keystone	<table border="1"> <tr> <td>Admin Username</td> <td>admin</td> </tr> <tr> <td>Admin Tenant Name</td> <td>admin</td> </tr> </table>		Admin Username	admin	Admin Tenant Name	admin						
Admin Username	admin											
Admin Tenant Name	admin											

Name	Description		
LDAP	<p>This is available only when Keystone v3 and LDAP both are enabled under Optional Features and Services in Blueprint Initial Setup.</p>		
	<table border="1"> <tr> <td>Domain Name field</td> <td>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>Object Class for Users field</td> <td>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>Object Class for Groups</td> <td>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>Domain Name Tree for Users</td> <td>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>Domain Name Tree for Groups field</td> <td>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>Suffix for Domain Name field</td> <td>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>URL field</td> <td>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>Domain Name for Bind User field</td> <td>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>Password field</td> <td>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>User Filter</td> <td>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>User ID Attribute</td> <td>Enter a string.</td> </tr> </table>	User ID Attribute	Enter a string.	
User ID Attribute	Enter a string.		
<table border="1"> <tr> <td>User Name Attribute</td> <td>Enter a string.</td> </tr> </table>	User Name Attribute	Enter a string.	
User Name Attribute	Enter a string.		
<table border="1"> <tr> <td>User Mail Attribute</td> <td>Enter a string.</td> </tr> </table>	User Mail Attribute	Enter a string.	
User Mail Attribute	Enter a string.		
<table border="1"> <tr> <td>Group Name Attribute</td> <td>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"> <tr> <td>Network Name field</td> <td>Enter the name for the external network.</td> </tr> <tr> <td>IP Start field</td> <td>Enter the starting floating IPv4 address.</td> </tr> <tr> <td>IP End field</td> <td>Enter the ending floating IPv4 address.</td> </tr> <tr> <td>Gateway field</td> <td>Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td>DNS Server field</td> <td>Enter the DNS server IPv4 address.</td> </tr> <tr> <td>Segmentation ID field</td> <td>Enter the segmentation ID.</td> </tr> <tr> <td>Subnet</td> <td>Enter the Subnet for Provider Network.</td> </tr> </table> <p>For External Network fill in the following details:</p> <table border="1"> <tr> <td>Network Name field</td> <td>Enter the name for the external network.</td> </tr> <tr> <td>Network IP Start field</td> <td>Enter the starting floating IPv4 address.</td> </tr> <tr> <td>Network IP End field</td> <td>Enter the ending floating IPv4 address.</td> </tr> <tr> <td>Network Gateway field</td> <td>Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td>DNS Server field</td> <td>Enter the DNS server IPv4 address.</td> </tr> <tr> <td>Subnet</td> <td>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.																										
IP Start field	Enter the starting floating IPv4 address.																										
IP End field	Enter the ending floating IPv4 address.																										
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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 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"> <thead> <tr> <th>Cluster End Point</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Admin User</td> <td>IP address of PAC (proxy-account-container) endpoint.</td> </tr> <tr> <td>Admin Tenant</td> <td>Admin user for swift to authenticate in keystone.</td> </tr> <tr> <td>Admin Password</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>Protocol</td> <td>swiftstack_admin_password</td> </tr> <tr> <td></td> <td>http or https. Protocol that swiftstack is running on top</td> </tr> </tbody> </table>	Cluster End Point	Description	Admin User	IP address of PAC (proxy-account-container) endpoint.	Admin Tenant	Admin user for swift to authenticate in keystone.	Admin Password	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_	Protocol	swiftstack_admin_password		http or https. Protocol that swiftstack is running on top
Cluster End Point	Description														
Admin User	IP address of PAC (proxy-account-container) endpoint.														
Admin Tenant	Admin user for swift to authenticate in keystone.														
Admin Password	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_														
Protocol	swiftstack_admin_password														
	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.

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

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"> <tr> <td>Remote Host</td> <td>Enter Syslog IP Address.</td> </tr> <tr> <td>Protocol</td> <td>Only UDP is supported.</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> </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 ELK (elasticsearch, Fluentd and Kibana) to monitor the openstack services, by cross-launching the Kibana dashboard.

To cross launch Kibana, complete the following instructions:

-
- Step 1** In the **Navigation** pane, click **Post-Install > Monitoring**.
The **Authentication Required** browser pop up is displayed.
 - Step 2** Enter the **username** as Admin.
 - Step 3** Enter the ELK_PASSWORD password obtained from /root/installer-`<tagid>/openstack-configs/secrets.yaml` in the management node.
Kibana is launched in an I-Frame.
Note You can also view Kibana Logs in a new tab by clicking the **View Kibana logs** link.
-

Cross Launching Horizon

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

-
- 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.
-

NFVI Monitoring

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

Step 1 In the **Navigation** pane, click **Post-Install > NFVI monitoring**.

Step 2 Click the link **Click here to view NFVI monitoring**.
You will be redirected to NFVI Monitoring page.

Run VMTP

Run VMTP is divided in two sections:

- **Results for Auto Run:** This 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 **BandC** series Pod, through Cisco VIM Insight. On a pod running with CVIM 2.2, click on the NFVbench link on the NAV-Menu.

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

NDR/PDR Test

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

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

Fixed Rate Test

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

Name	Description
Rate	Rate: Select right configuration pps or bps from drop down-list and enter values : For pps: minimum: 2500pps; maximum: 14500000pps (=14.5Mpps); default: 1000000pps (=1Mpps) For bps: minimum: 1400000bps; maximum: 10000000000bps (=10Gbps); default: 1000000000 (=1Gbps)
Iteration Duration	Select duration from 10-60Sec. Default is 20sec.

Name	Description
Frame Size	Select the right frame size(64,IMIX,1518) to run.
Run Fixed rate test	Click on Run Fixed rate test. Once Fixed rate 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 Password	Old CIMC-COMMON password will be updated with new CIMC-COMMON password.
