



# Installing Cisco VIM through Cisco VIM Insight

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The VIM Insight has an UI admin, who has the privilege to manage the UI offering. The Insight UI admin, has the rights to add the right users as Pod administrators. Post bootstrap, the URL for the UI will be: [https://br\\_api:9000](https://br_api:9000).

The following topics helps you to install and configure Cisco Virtual Infrastructure Manager with VIM Insight:

- [Registering New Pod to Insight , page 1](#)
- [Configuring OpenStack Installation, page 9](#)
- [Post Installation Features for Active Blueprint, page 43](#)

## Registering New Pod to Insight

In this step the User registers a new pod to Insight. Pod registration includes the following steps:

### Before You Begin

Insight UI Admin needs to register a Pod Admin to allow the user to register a pod. Following are the steps required for UI Admin to register a Pod Admin:

- 
- Step 1** Login as UI Admin and navigate to **Manage Pod Admin(s)** page.
  - Step 2** Click **Add Pod Admin**.
  - Step 3** Enter the username of the user.
    - a) If email is already registered then Username will be populated automatically.
    - b) If not registered, an email would be sent to the user email ID.
  - Step 4** Navigate to [https://br\\_api:9000](https://br_api:9000).
  - Step 5** Click the **Register Management Node** link.
    - a) Enter the Endpoint which is the br\_api IP for the management node.  
Run time validation will check if the endpoint is already registered.
    - b) Give a Friendly name / tag for the particular management node.
    - c) Enter the REST API Password. (REST Password is present on the Pod at `"/opt/cisco/ui_config.json"`)

- d) Provide a brief description about the management node (Max 200 characters are allowed).
- e) Enter the Pod Admin's Email ID.
  - 1 Run time validation will check if the entered Email ID belong to the Pod Admin.
  - 2 If entered Email ID is not the Pod Admin's ID, then User is not registered as Pod Admin error is displayed.
  - 3 If entered Email ID is the Pod Admin's ID, then User-Name is auto-populated.
  - 4 Section to upload Management Node CA Certificate is visible if POD Admin validation is true.
    - Server certificate is located at /var/www/mercury/mercury-ca.crt.
    - Validation to check the cert file size and extensions are handled.
    - Click on Upload and Update button.
    - If certificate file passes all the validation then a message would be visible "Uploaded Root CA Certificate).

**Figure 1: Register Management Node**

The screenshot shows the 'Register Management Node' interface in Cisco VIM Insight. The form is titled 'Register Management Node' and is divided into two main sections. The first section, 'Register Management Node', contains the following fields: 'Enter End Point IP', 'Enter Management Node Name' (with 'admin' entered), 'Enter Rest Server Password', and 'Description'. The second section, 'Management Node Administrator Details', contains the following fields: 'Enter Email ID' and 'Enter User Name'. At the bottom of the form, there are two buttons: 'Register' and 'Cancel'.

- f) Click **Register** and management node health validation would take place.
  - 1 If Management Node Validation fails due to invalid certificate, then Insight will delete the certificate from the uploaded path.
  - 2 If Management Node Validation fails due to Password mismatch, then proper message for password mismatch would be visible but certificate won't be deleted hence you can fix the password then go ahead with the Registration.
  - 3 If Rest API service is down on the Management Node then error message "Installer REST API Service is not available" message would be visible.

## Login to Insight as Pod Admin

To login to Insight as Pod Admin, complete the instructions below:

- 
- Step 1** Enter the relevant registered email id.
- Step 2** Enter the valid password.
- Step 3** Click **login as POD**.
- Note** After successful Sign in user will be redirected to the Dashboard.
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## The VIM Insight UI

The VIM Insight UI is divided into four parts:

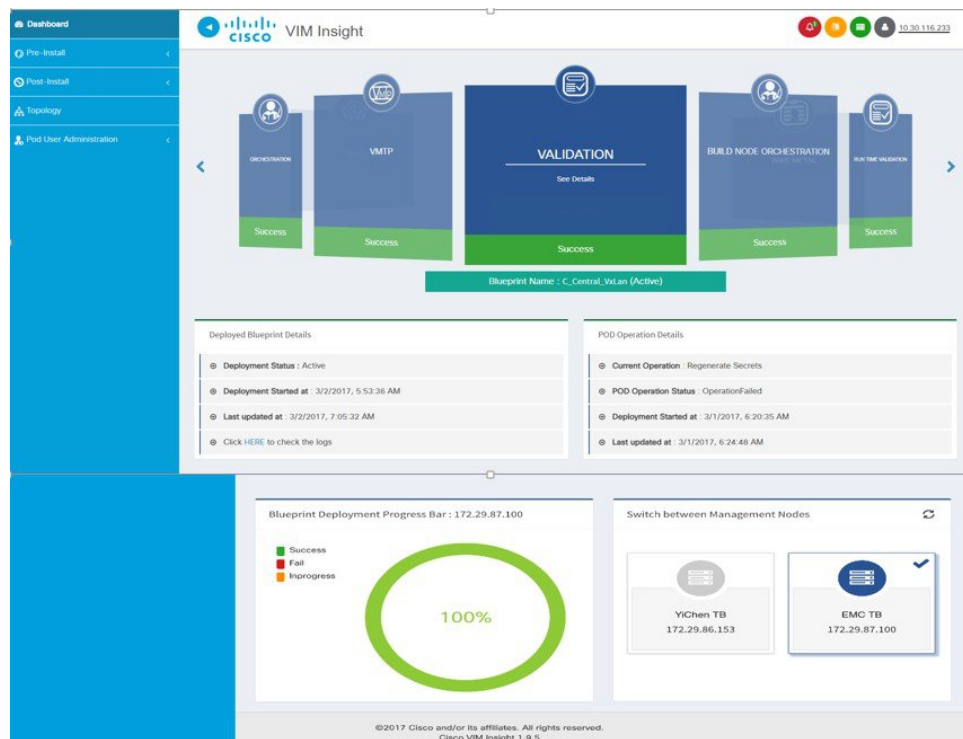
### 1 Dashboard

Dashboard of the VIM Installer provides the user an intuitive view of monitoring deployment. Dashboard provides a 3D view of 8 stages, which are present in the Installer CLI. The Carrousel displays the real-time status of the install steps, and it rotates automatically once an install stage is completed and a new install stage is started or scheduled. Dashboard maintains the pod state even when the User logs out. It will show the most recent data available via the VIM REST API on the management node. Dashboard provides the following rights to the administrator:

- a Deployed Blueprint Details:** Shows information about the current Blueprint (Active/In-Progress). In case of an Inactive Blueprint, the table will be blank.
  - a Deployment Status:** This tells the status of the Blueprint. There are 3 stages of a Blueprint : Active, in-progress and Failed. Incase of in-progress and Failed states, the stage name would be mentioned in Deployment Status which is a hyperlink. If you click on the stage name, the carrousel will directly jump to that particular stage.
  - b Deployment Started at:** This tells the time when the installation was started.
  - c Last Updated at:** This tells the last updated time of the installation.
  - d Click Here to check logs:** If you click **Here** you will be redirected to the logs page in a new tab for which you will have to enter the REST Username and Password located at /opt/cisco/ui\_config.json on the node. By default REST Username is "admin".
- b POD Operation Details:** Displays the status regarding all the POD Activities done POST Installation like POD Management, Re-generate Secrets, etc. Following are the information shared in POD Operation Details table:
  - a Current Operation:** Name of the Operation Running.
  - b POD Operation Status:** Status of the Operation.
  - c Operation Started at:** Operation Start time.

- d Last Updated at: Operation last update time.
- c **Blueprint Deployment Progress bar for a given POD:** Shows the Blueprint success or failure state in percentage.
- d **Switch Between Management Nodes:** Will be covered later in this chapter.

**Figure 2: VIM Insight Dashboard**



## 2 Pre-install

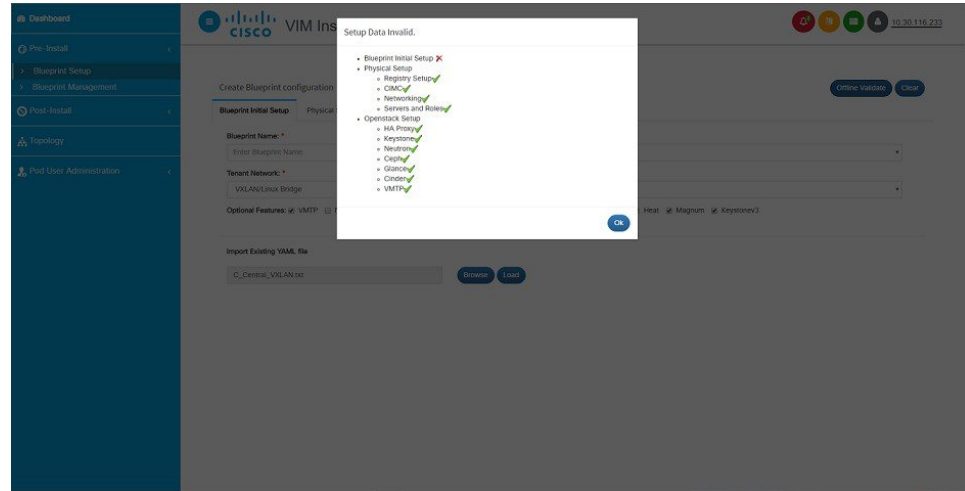
This section has two menus:

- a **Blueprint Setup:** Blueprint is the YAML (setupdata) present in the Management node. There are two ways to create a Blueprint:
  - a Form based through the UI.
  - b Upload an existing YAML.

In case of manual creation the user has to fill in details for Initial setup, physical setup and OpenStack, which covers core and optional features like VMTP, NFVI Monitoring, Auto configuration of ToR, Optional services like Heat, Keystonev3 and so on. In case of upload of an existing YAML, the user can just upload the file and click **Upload** to automatically populate all the corresponding fields in the UI. At any given point, one can initiate the offline validation of the entry, by clicking the **Offline Validate** button, on the upper right hand corner in the **Blueprint Setup** menu.

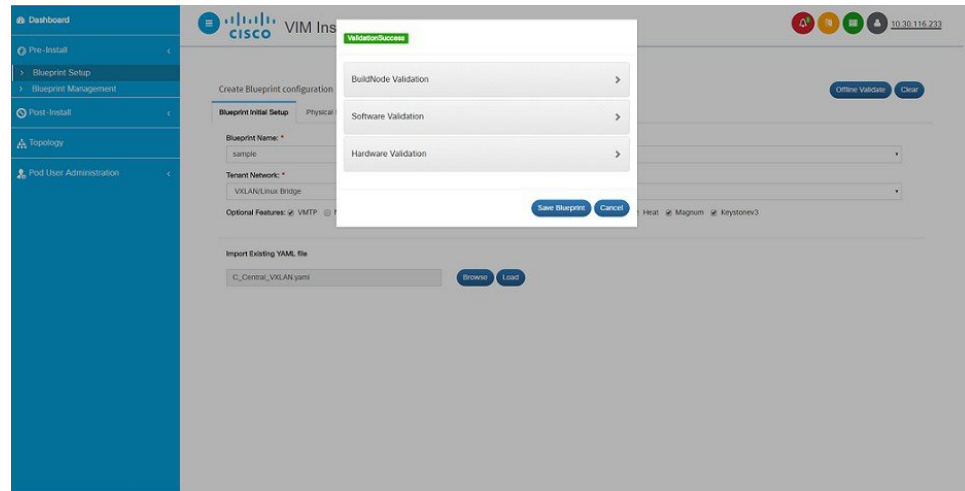
Offline Validation will only take place if all the fields marked in Blueprint are filled and there are no client side validations remaining. Even if they are the Offline Validation, pop up will show which field is missing.

Figure 3: Blueprint Creation



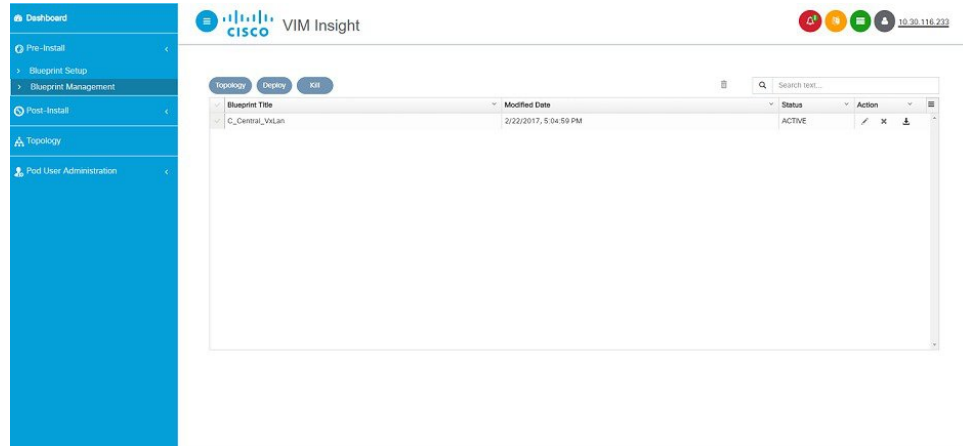
After filling all the details offline validation will take place, if successful, **Save Blueprint** option will be enabled, else user will not be allowed to save the Blueprint. Click **Save blueprint** to be redirected to Blueprint Management.

Figure 4: Blueprint Successful



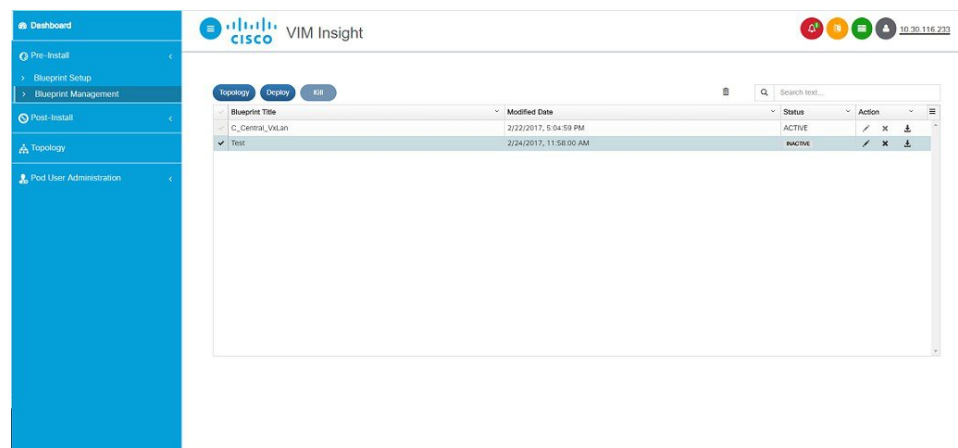
- b Blueprint Management:** Blueprint Management gives CRUD access to users for Blueprints in the System. A user can use following features in Blueprint Management:

**Figure 5: Blueprint Management**



- a Delete Single or Multiple Blueprints which are in Inactive State.
- b Edit Blueprint which are in Inactive State.
- c Deploy Blueprint.
- d Uninstall or Abort Blueprint.
- e Preview and Download created Blueprint on local machine.
- f Search Blueprint from created Blueprints.

**Figure 6: Blueprint Management Test**



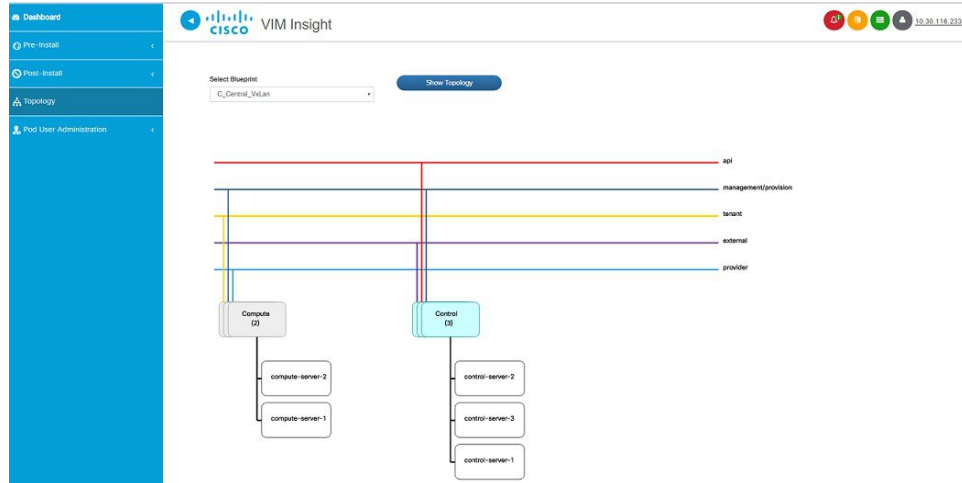
### 3 Post-install.

This section is active only when a Blueprint is in active state; that is if the install is successful, hence day-n operations are allowed.

#### 4 Topology.

Topology is a logical representation of the Blueprint where it tells the user about the nodes connectivity with the respective networks and hardware information. Topology shows the active blueprints and user can select one among them.

**Figure 7: Topology**



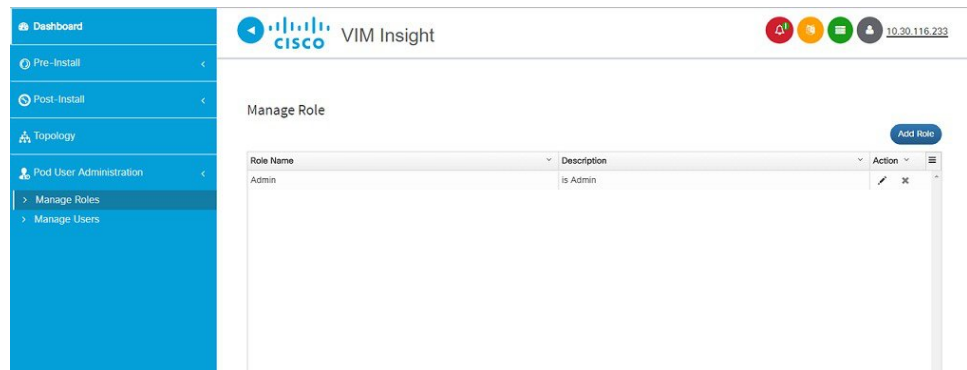
#### 5 Pod User Administration

Pod User Administration menu is available only to admin of the Management Node. This admin can be default admin of the pod or users assigned with Pod Admin role by the default admin. It has two additional sub-panel options:

##### a Manage Roles:

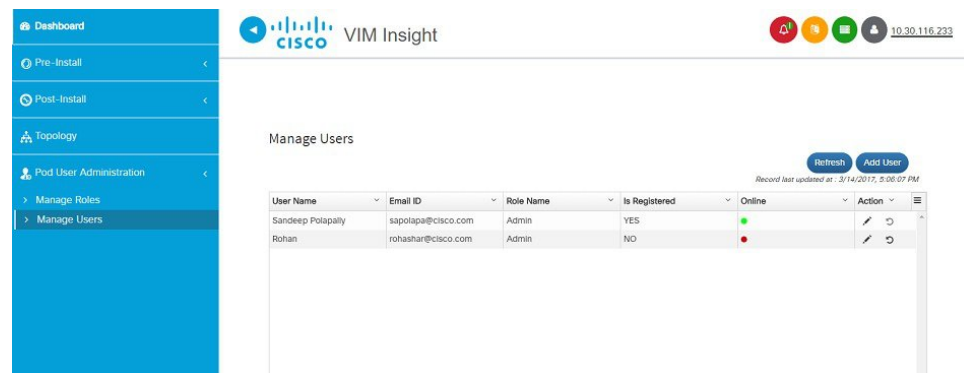
- a Add/Edit/Delete Roles.
- b Permissions to restrict the user access.
- c Roles provide the granular access to a specific user.
- d A role cannot be deleted directly if it is associated to an user.

**Figure 8: Manage roles**



**b Manage Users:**

- a Add/Edit/Delete Users.
- b List User name and Email ID for the users registered in the system.
- c Roles associated to users.
- d The current status of the user (Online and Offline user with Green and Red dot respectively).
- e User registration status.
- f Refresh button to get latest information about the users status.

**Figure 9: Manage users**

VIM Insight also have some extra features in the header (top right hand corner):

- 1 Notification - Tells the current status of Blueprint.
- 2 Context Switching - User can switch between two or more nodes.
- 3 User Profile - User can change the Password or Logout or change log level between Info and Debug .

## Context Switching within Insight

There are two ways that you can switch to another pod:

- 1 **Context Switching Icon:** Context Switching Icon is situated on the top right corner of the UI and is the second icon from the left tool tip. Click **Management Node Context Switching**, to access all pods. There can be a case when a pod has red dot right next to it which indicates that the REST Password provided during registration of Management node does not matches with the current REST Password for that particular node. The Pod Admin/User can reach out to UI Admin and ask them to update the password for that Node from **Manage Nodes** in Insight UI Admin Portal.
- 2 **Switch Between Management Nodes:** Switch Between Management Nodes is situated in Dashboard. You can navigate to the pods by a single click. If mouse changes from hand or cursor to a red not sign then it is the same case as mentioned above for the REST Password mismatch.



# Configuring OpenStack Installation

## Before You Begin

You need to create a Blueprint (B or C Series) to initiate OpenStack Installation through the VIM.

**Step 1** In the **Navigation** pane, choose **Pre-Install > Blueprint Setup**.

**Step 2** To create a **B Series Blueprint**:

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

Name	Description
<b>Blueprint Name</b> field	Enter the name of the blueprint configuration.
<b>Platform Type</b> drop-down list	B-Series (By default) choose B series for this section. C-Series
<b>Tenant Network</b> drop-down list	For B Series, the available tenant network types are: <ul style="list-style-type: none"> <li>• Linuxbridge/VXLAN</li> <li>• OVS/VLAN</li> </ul>
<b>Ceph Mode</b> drop-down list	Choose one of the following Ceph types: <ul style="list-style-type: none"> <li>• Dedicated</li> <li>• Central (By default)</li> </ul>
<b>Pod Type</b> drop-down list	Fullon (By default)
<b>Optional and ServicesFeatures</b> checkbox	Swiftstack, LDAP, Syslog Export Settings, Install Mode, ToR Switch Information, TLS, NFVMON, Pod Name, VMTP, Nfv Bench, Auto-Backup, Heat, Keystone v3  If any one is selected, the corresponding section is visible in various Blueprint sections.  By default all features are disabled except Auto Backup.
<b>Import Existing YAML</b> 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 field is missed then it will be highlight it in the respective section.

- 2 Click **Physical Setup** to navigate to the **Registry Setup configuration** page. Fill in the following details for Registry Setup:

Name	Description
<b>Registry User Name</b> text field	User-Name for Registry ( <b>Mandatory</b> ).
<b>Registry Password</b> text field	Password for Registry ( <b>Mandatory</b> ).
<b>Registry Email</b> text field	Email ID for Registry ( <b>Mandatory</b> ).

Once all Mandatory fields are filled the **Validation Check Registry Page** will show a Green Tick.

- 3 Click **UCSM Common Tab** and complete the following fields:

Name	Description
<b>User name</b> text field	By default value is admin.
<b>Password</b> text field	Enter Password for UCSM Common (Mandatory).
<b>UCSM IP</b> text field	Enter IP Address for UCSM Common(Mandatory).
<b>Resource Prefix</b> text field	Enter the resource prefix (Mandatory).
<b>QOS Policy Type</b> drop-down list	Choose one of the following types: <ul style="list-style-type: none"> <li>• NFVI (Default)</li> <li>• Media</li> </ul>
<b>Enable VF Performance</b>	To apply adaptor policy at VF level. Default is false.
<b>Enable Prov FI PIN</b> optional checkbox	Default is false.
<b>MRAID-CARD</b> optional checkbox	Enables JBOD mode to be set on disks. Applicable only if you have RAID controller configured on Storage C240 Rack servers.
<b>Enable UCSM Plugin</b> optional checkbox	Visible when Tenant Network type is OVS/VLAN
<b>Enable QoS Policy</b> optional checkbox	Visible only when UCSM Plugin is enabled.
<b>SRIOV Multi VLAN Trunk</b> optional grid	Visible when UCSM Plugin is enabled. Enter the values for network and vlans ranges. Grid can handle all CRUD operations like Add, Delete, Edit and, Multiple Delete.

- 4 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 <b>Delete All</b> or click <b>Edit</b> icon for each segment and fill in the details.</p> <p>You can add, edit, or delete network information in the table:</p> <ul style="list-style-type: none"> <li>• Click <b>Edit</b> to enter new entries (networks) to the table.</li> <li>• Specify the following fields in the <b>Edit Entry to Networks</b> dialogue box.</li> </ul> <table border="1" data-bbox="922 726 1520 1856"> <thead> <tr> <th data-bbox="927 732 1221 781">Name</th> <th data-bbox="1221 732 1515 781">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="927 781 1221 1461"><b>Segment</b> drop-down list</td> <td data-bbox="1221 781 1515 1461"> <p>You can select any of one segment from dropdown list.</p> <ul style="list-style-type: none"> <li>• API</li> <li>• Management Provision</li> <li>• Tenant</li> <li>• CIMC</li> <li>• Storage</li> <li>• External</li> <li>• Provider (optional)</li> </ul> <p><b>Note</b> Some segments do not need some of the values listed in the preceding points.</p> </td> </tr> <tr> <td data-bbox="927 1461 1221 1621"><b>IPv6 subnet</b></td> <td data-bbox="1221 1461 1515 1621">Enter IPv6 address. This field will be available only for Management provision and API .</td> </tr> <tr> <td data-bbox="927 1621 1221 1793"><b>VLAN</b> field</td> <td data-bbox="1221 1621 1515 1793">Enter the VLAN ID. For Segment - Provider, the VLAN ID value is always none.</td> </tr> <tr> <td data-bbox="927 1793 1221 1856"><b>Subnet ID</b> field</td> <td data-bbox="1221 1793 1515 1856">Enter the IPv4 address for</td> </tr> </tbody> </table>	Name	Description	<b>Segment</b> drop-down list	<p>You can select any of one segment from dropdown list.</p> <ul style="list-style-type: none"> <li>• API</li> <li>• Management Provision</li> <li>• Tenant</li> <li>• CIMC</li> <li>• Storage</li> <li>• External</li> <li>• Provider (optional)</li> </ul> <p><b>Note</b> Some segments do not need some of the values listed in the preceding points.</p>	<b>IPv6 subnet</b>	Enter IPv6 address. This field will be available only for Management provision and API .	<b>VLAN</b> field	Enter the VLAN ID. For Segment - Provider, the VLAN ID value is always none.	<b>Subnet ID</b> field	Enter the IPv4 address for
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Click <b>Save</b> .														

- 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 data-bbox="311 325 675 354"><b>Add Entry to Servers and Roles</b></p>	<p data-bbox="922 325 1516 354">Click <b>Edit</b> or <b>+</b> to add a new server and role to the table.</p> <table border="1" data-bbox="922 373 1516 1528"> <tr> <td data-bbox="928 382 1221 436"><b>Server Name.</b></td> <td data-bbox="1221 382 1510 436">Enter a server name</td> </tr> <tr> <td data-bbox="928 436 1221 533"><b>Server Type</b> drop-down list</td> <td data-bbox="1221 436 1510 533">Choose Blade or Rack from the drop-down list.</td> </tr> <tr> <td data-bbox="928 533 1221 630"><b>Rack ID</b> field</td> <td data-bbox="1221 533 1510 630">The Rack ID for the server.</td> </tr> <tr> <td data-bbox="928 630 1221 684"><b>Chassis ID</b> field</td> <td data-bbox="1221 630 1510 684">Enter a Chassis ID.</td> </tr> <tr> <td data-bbox="928 684 1221 823">If Rack is chosen, the <b>Rack Unit ID</b> field is displayed.</td> <td data-bbox="1221 684 1510 823">Enter a Rack Unit ID.</td> </tr> <tr> <td data-bbox="928 823 1221 961">If Blade is chosen, the <b>Blade ID</b> field is displayed.</td> <td data-bbox="1221 823 1510 961">Enter a Blade ID.</td> </tr> <tr> <td data-bbox="928 961 1221 1058">If Rack is chosen, the Rack Unit ID field is displayed.</td> <td data-bbox="1221 961 1510 1058">Enter a Rack Unit ID.</td> </tr> <tr> <td data-bbox="928 1058 1221 1247">Select the <b>Role</b> from the drop down list.</td> <td data-bbox="1221 1058 1510 1247">If Server type is Blade then select <b>Control and Compute</b>. If server is Rack then select <b>Block Storage</b>.</td> </tr> <tr> <td data-bbox="928 1247 1221 1436"><b>Management IP.</b></td> <td data-bbox="1221 1247 1510 1436">It is an optional field but if provided for one server then it is mandatory to provide details for other Servers as well.</td> </tr> <tr> <td data-bbox="928 1436 1221 1528"><b>Management IPv6</b></td> <td data-bbox="1221 1436 1510 1528">Enter the management IPv6 Address.</td> </tr> </table>	<b>Server Name.</b>	Enter a server name	<b>Server Type</b> drop-down list	Choose Blade or Rack from the drop-down list.	<b>Rack ID</b> field	The Rack ID for the server.	<b>Chassis ID</b> field	Enter a Chassis ID.	If Rack is chosen, the <b>Rack Unit ID</b> field is displayed.	Enter a Rack Unit ID.	If Blade is chosen, the <b>Blade ID</b> field is displayed.	Enter a Blade ID.	If Rack is chosen, the Rack Unit ID field is displayed.	Enter a Rack Unit ID.	Select the <b>Role</b> from the drop down list.	If Server type is Blade then select <b>Control and Compute</b> . If server is Rack then select <b>Block Storage</b> .	<b>Management IP.</b>	It is an optional field but if provided for one server then it is mandatory to provide details for other Servers as well.	<b>Management IPv6</b>	Enter the management IPv6 Address.
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<p data-bbox="311 1606 516 1635">Click <b>Save or Add</b>.</p>	<p data-bbox="922 1606 1516 1698">Clicking <b>Save or Add</b>, adds all the information on Servers and Roles; provided, all mandatory fields are filled.</p>																				

- 6 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 is a part of the Blueprint.

Name	Description	
Configure ToR optional checkbox.	Enabling this checkbox, changes the configure tor section from false to true.	
ToR Switch Information mandatory table to enter ToR information.	Click (+) to add information for Tor Switch.	
	<b>Name</b>	<b>Description</b>
	<b>Name</b>	ToR switch name.
	<b>Username</b>	ToR switch username.
	<b>Password</b>	ToR switch password.
	<b>SSH IP</b>	ToR switch SSH IP address.
	<b>SSN Num</b>	ToR switch ssn number.
	<b>VPC Peer Keepalive</b>	Peer Management IP. You do not define if there is no peer.
	<b>VPC Domain</b>	Do not define if peer is absent.
	<b>VPC Peer Port Info</b>	Interface for vpc peer ports.
	<b>VPC Peer VLAN Info</b>	VLAN ids for vpc peer ports (optional).
	<b>BR Management Port Info</b>	Management interface of management node.
	<b>BR Management PO Info</b>	Port channel number for management interface of management node.
On clicking <b>Save</b> , Add ToR Info Connected to Fabric field will be visible.	<b>Port Channel</b> field	Enter the port channel input.
	<b>Switch Name</b> field	Enter the switch name.

7 Click **OpenStack Setup** Tab to advance to the OpenStack Setup Configuration page.

8 On the **OpenStack Setup** page of the Cisco VIM Insight wizard, complete the following fields:



Name	Description										
<b>HA Proxy</b>	Fill in the following mandatory fields: <table border="1" data-bbox="886 373 1516 793"> <tr> <td data-bbox="886 373 1203 470"><b>External VIP Address</b></td> <td data-bbox="1203 373 1516 470">Enter IP address of External VIP.</td> </tr> <tr> <td data-bbox="886 470 1203 567"><b>External VIP Address IPv6</b></td> <td data-bbox="1203 470 1516 567">Enter IPv6 address of External VIP.</td> </tr> <tr> <td data-bbox="886 567 1203 632"><b>Virtual Router ID</b></td> <td data-bbox="1203 567 1516 632">Enter the Router ID for HA.</td> </tr> <tr> <td data-bbox="886 632 1203 697"><b>Internal VIP Address IPv6</b></td> <td data-bbox="1203 632 1516 697">Enter IPv6 address.</td> </tr> <tr> <td data-bbox="886 697 1203 793"><b>Internal VIP Address</b></td> <td data-bbox="1203 697 1516 793">Enter IP address of Internal VIP.</td> </tr> </table>	<b>External VIP Address</b>	Enter IP address of External VIP.	<b>External VIP Address IPv6</b>	Enter IPv6 address of External VIP.	<b>Virtual Router ID</b>	Enter the Router ID for HA.	<b>Internal VIP Address IPv6</b>	Enter IPv6 address.	<b>Internal VIP Address</b>	Enter IP address of Internal VIP.
<b>External VIP Address</b>	Enter IP address of External VIP.										
<b>External VIP Address IPv6</b>	Enter IPv6 address of External VIP.										
<b>Virtual Router ID</b>	Enter the Router ID for HA.										
<b>Internal VIP Address IPv6</b>	Enter IPv6 address.										
<b>Internal VIP Address</b>	Enter IP address of Internal VIP.										
<b>Keystone</b>	Mandatory field are prepopulated. <table border="1" data-bbox="886 915 1516 1020"> <tr> <td data-bbox="886 915 1203 968"><b>Admin Username</b></td> <td data-bbox="1203 915 1516 968">admin</td> </tr> <tr> <td data-bbox="886 968 1203 1020"><b>Admin Tenant Name</b></td> <td data-bbox="1203 968 1516 1020">admin</td> </tr> </table>	<b>Admin Username</b>	admin	<b>Admin Tenant Name</b>	admin						
<b>Admin Username</b>	admin										
<b>Admin Tenant Name</b>	admin										

Name	Description																												
<p><b>LDAP (Only if Keystonev3 is enabled)</b></p> <p><b>Note</b> This option is only available with keystonev3</p>	<p>This is available only when Keystone v3 and LDAP both are enabled under Optional Features and Services in Blueprint Initial Setup.</p> <table border="1" data-bbox="847 436 1484 1562"> <tbody> <tr> <td data-bbox="847 436 1166 533"><b>Domain Name</b> field</td> <td data-bbox="1166 436 1484 533">Enter name for Domain name.</td> </tr> <tr> <td data-bbox="847 533 1166 596"><b>Object Class for Users</b> field</td> <td data-bbox="1166 533 1484 596">Enter a string as input.</td> </tr> <tr> <td data-bbox="847 596 1166 659"><b>Object Class for Groups</b></td> <td data-bbox="1166 596 1484 659">Enter a string.</td> </tr> <tr> <td data-bbox="847 659 1166 756"><b>Domain Name Tree for Users</b></td> <td data-bbox="1166 659 1484 756">Enter a string.</td> </tr> <tr> <td data-bbox="847 756 1166 852"><b>Domain Name Tree for Groups</b> field</td> <td data-bbox="1166 756 1484 852">Enter a string.</td> </tr> <tr> <td data-bbox="847 852 1166 949"><b>Suffix for Domain Name</b> field</td> <td data-bbox="1166 852 1484 949">Enter a string.</td> </tr> <tr> <td data-bbox="847 949 1166 1045"><b>URL</b> field</td> <td data-bbox="1166 949 1484 1045">Enter a URL with ending port number.</td> </tr> <tr> <td data-bbox="847 1045 1166 1142"><b>Domain Name for Bind User</b> field</td> <td data-bbox="1166 1045 1484 1142">Enter a string.</td> </tr> <tr> <td data-bbox="847 1142 1166 1239"><b>Password</b> field</td> <td data-bbox="1166 1142 1484 1239">Enter Password as string format.</td> </tr> <tr> <td data-bbox="847 1239 1166 1302"><b>User Filter</b></td> <td data-bbox="1166 1239 1484 1302">Enter filter name as string.</td> </tr> <tr> <td data-bbox="847 1302 1166 1365"><b>User ID Attribute</b></td> <td data-bbox="1166 1302 1484 1365">Enter a string.</td> </tr> <tr> <td data-bbox="847 1365 1166 1428"><b>User Name Attribute</b></td> <td data-bbox="1166 1365 1484 1428">Enter a string.</td> </tr> <tr> <td data-bbox="847 1428 1166 1491"><b>User Mail Attribute</b></td> <td data-bbox="1166 1428 1484 1491">Enter a string.</td> </tr> <tr> <td data-bbox="847 1491 1166 1554"><b>Group Name Attribute</b></td> <td data-bbox="1166 1491 1484 1554">Enter a string.</td> </tr> </tbody> </table>	<b>Domain Name</b> field	Enter name for Domain name.	<b>Object Class for Users</b> field	Enter a string as input.	<b>Object Class for Groups</b>	Enter a string.	<b>Domain Name Tree for Users</b>	Enter a string.	<b>Domain Name Tree for Groups</b> field	Enter a string.	<b>Suffix for Domain Name</b> field	Enter a string.	<b>URL</b> field	Enter a URL with ending port number.	<b>Domain Name for Bind User</b> field	Enter a string.	<b>Password</b> field	Enter Password as string format.	<b>User Filter</b>	Enter filter name as string.	<b>User ID Attribute</b>	Enter a string.	<b>User Name Attribute</b>	Enter a string.	<b>User Mail Attribute</b>	Enter a string.	<b>Group Name Attribute</b>	Enter a string.
<b>Domain Name</b> field	Enter name for Domain name.																												
<b>Object Class for Users</b> field	Enter a string as input.																												
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<b>Group Name Attribute</b>	Enter a string.																												

Name	Description														
Neutron	<p>Neutron fields would change on the basis of <b>Tenant Network Type</b> Selection from <b>Blueprint Initial Setup</b>. Following are the options available for Neutron for OVS/VLAN:</p> <table border="1" data-bbox="885 436 1515 1581"> <tbody> <tr> <td data-bbox="885 443 1198 594"><b>Tenant Network Type</b></td> <td data-bbox="1203 443 1515 594">Auto Filled based on the Tenant Network Type selected in the Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="885 600 1198 751"><b>Mechanism Drivers</b></td> <td data-bbox="1203 600 1515 751">Auto Filled based on the Tenant Network Type selected in Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="885 758 1198 1192"><b>NFV Hosts</b></td> <td data-bbox="1203 758 1515 1192">           Auto filled with the Compute you added in Server and Roles.             If you select All in this section NFV_HOSTS: <b>ALL</b> will be added to the Blueprint or you can select one particular compute. For Eg:             NFV_HOSTS:            compute-server-1,            compute-server-2.         </td> </tr> <tr> <td data-bbox="885 1199 1198 1289"><b>Tenant VLAN Ranges</b></td> <td data-bbox="1203 1199 1515 1289">List of ranges separated by comma of form start:end.</td> </tr> <tr> <td data-bbox="885 1295 1198 1386"><b>Provider VLAN Ranges</b></td> <td data-bbox="1203 1295 1515 1386">List of ranges separated by comma of form start:end.</td> </tr> <tr> <td data-bbox="885 1392 1198 1514"><b>VM High Page Size (available for NFV_HOSTS option)</b></td> <td data-bbox="1203 1392 1515 1514">2M or 1G</td> </tr> <tr> <td data-bbox="885 1520 1198 1581"><b>Enable Jumbo Frames</b></td> <td data-bbox="1203 1520 1515 1581">Check Box</td> </tr> </tbody> </table> <p>For Tenant Network Type Linux Bridge everything will remain the same but <b>Tenant VLAN Ranges</b> will be removed.</p>	<b>Tenant Network Type</b>	Auto Filled based on the Tenant Network Type selected in the Blueprint Initial Setup page.	<b>Mechanism Drivers</b>	Auto Filled based on the Tenant Network Type selected in Blueprint Initial Setup page.	<b>NFV Hosts</b>	Auto filled with the Compute you added in Server and Roles.  If you select All in this section NFV_HOSTS: <b>ALL</b> will be added to the Blueprint or you can select one particular compute. For Eg:  NFV_HOSTS: compute-server-1, compute-server-2.	<b>Tenant VLAN Ranges</b>	List of ranges separated by comma of form start:end.	<b>Provider VLAN Ranges</b>	List of ranges separated by comma of form start:end.	<b>VM High Page Size (available for NFV_HOSTS option)</b>	2M or 1G	<b>Enable Jumbo Frames</b>	Check Box
<b>Tenant Network Type</b>	Auto Filled based on the Tenant Network Type selected in the Blueprint Initial Setup page.														
<b>Mechanism Drivers</b>	Auto Filled based on the Tenant Network Type selected in Blueprint Initial Setup page.														
<b>NFV Hosts</b>	Auto filled with the Compute you added in Server and Roles.  If you select All in this section NFV_HOSTS: <b>ALL</b> will be added to the Blueprint or you can select one particular compute. For Eg:  NFV_HOSTS: compute-server-1, compute-server-2.														
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<b>VM High Page Size (available for NFV_HOSTS option)</b>	2M or 1G														
<b>Enable Jumbo Frames</b>	Check Box														

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

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

Name	Description																										
	<p>Check one of the checkboxes to specify a VMTP network:</p> <ul style="list-style-type: none"> <li>• Provider Network</li> <li>• External Network</li> </ul> <p>For the <b>Provider Network</b> complete the following:</p> <table border="1" data-bbox="849 535 1482 1178"> <tbody> <tr> <td data-bbox="849 535 1166 632"><b>Network Name</b> field</td> <td data-bbox="1166 535 1482 632">Enter the name for the external network.</td> </tr> <tr> <td data-bbox="849 632 1166 728"><b>IP Start</b> field</td> <td data-bbox="1166 632 1482 728">Enter the starting floating IPv4 address.</td> </tr> <tr> <td data-bbox="849 728 1166 825"><b>IP End</b> field</td> <td data-bbox="1166 728 1482 825">Enter the ending floating IPv4 address.</td> </tr> <tr> <td data-bbox="849 825 1166 921"><b>Gateway</b> field</td> <td data-bbox="1166 825 1482 921">Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td data-bbox="849 921 1166 1018"><b>DNS Server</b> field</td> <td data-bbox="1166 921 1482 1018">Enter the DNS server IPv4 address.</td> </tr> <tr> <td data-bbox="849 1018 1166 1081"><b>Segmentation ID</b> field</td> <td data-bbox="1166 1018 1482 1081">Enter the segmentation ID.</td> </tr> <tr> <td data-bbox="849 1081 1166 1178"><b>Subnet</b></td> <td data-bbox="1166 1081 1482 1178">Enter the Subnet for Provider Network.</td> </tr> </tbody> </table> <p>For <b>External Network</b> fill in the following details:</p> <table border="1" data-bbox="849 1283 1482 1856"> <tbody> <tr> <td data-bbox="849 1283 1166 1379"><b>Network Name</b> field</td> <td data-bbox="1166 1283 1482 1379">Enter the name for the external network.</td> </tr> <tr> <td data-bbox="849 1379 1166 1476"><b>Network IP Start</b> field</td> <td data-bbox="1166 1379 1482 1476">Enter the starting floating IPv4 address.</td> </tr> <tr> <td data-bbox="849 1476 1166 1572"><b>Network IP End</b> field</td> <td data-bbox="1166 1476 1482 1572">Enter the ending floating IPv4 address.</td> </tr> <tr> <td data-bbox="849 1572 1166 1669"><b>Network Gateway</b> field</td> <td data-bbox="1166 1572 1482 1669">Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td data-bbox="849 1669 1166 1766"><b>DNS Server</b> field</td> <td data-bbox="1166 1669 1482 1766">Enter the DNS server IPv4 address.</td> </tr> <tr> <td data-bbox="849 1766 1166 1856"><b>Subnet</b></td> <td data-bbox="1166 1766 1482 1856">Enter the Subnet for External Network.</td> </tr> </tbody> </table>	<b>Network Name</b> field	Enter the name for the external network.	<b>IP Start</b> field	Enter the starting floating IPv4 address.	<b>IP End</b> field	Enter the ending floating IPv4 address.	<b>Gateway</b> field	Enter the IPv4 address for the Gateway.	<b>DNS Server</b> field	Enter the DNS server IPv4 address.	<b>Segmentation ID</b> field	Enter the segmentation ID.	<b>Subnet</b>	Enter the Subnet for Provider Network.	<b>Network Name</b> field	Enter the name for the external network.	<b>Network IP Start</b> field	Enter the starting floating IPv4 address.	<b>Network IP End</b> field	Enter the ending floating IPv4 address.	<b>Network Gateway</b> field	Enter the IPv4 address for the Gateway.	<b>DNS Server</b> field	Enter the DNS server IPv4 address.	<b>Subnet</b>	Enter the Subnet for External Network.
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<b>Subnet</b>	Enter the Subnet for External Network.																										

Name	Description												
<p><b>TLS</b> This optional section will only be visible once TLS is selected from Blueprint Initial Setup Page.</p>	<p><b>TLS</b> has two options:</p> <ul style="list-style-type: none"> <li>• <b>External LB VIP FQDN</b> - text Field.</li> <li>• <b>External LB VIP TLS</b> - True/False. By default this option is false.</li> </ul>												
<p><b>SwiftStack</b> optional section will be visible once SwiftStack is selected from <b>Blueprint Initial Setup</b> Page. SwiftStack is only supported with KeyStonev2 . If you select Keystonev3, swiftstack will not be available for configuration.</p>	<p>Following are the options that needs to be filled for SwiftStack:</p> <table border="1" data-bbox="885 695 1516 1289"> <tbody> <tr> <td data-bbox="885 695 1198 814"><b>Cluster End Point</b></td> <td data-bbox="1203 695 1516 814">IP address of PAC (proxy-account-container) endpoint.</td> </tr> <tr> <td data-bbox="885 821 1198 898"><b>Admin User</b></td> <td data-bbox="1203 821 1516 898">Admin user for swift to authenticate in keystone.</td> </tr> <tr> <td data-bbox="885 905 1198 1045"><b>Admin Tenant</b></td> <td data-bbox="1203 905 1516 1045">The service tenant corresponding to the Account-Container used by Swiftstack.</td> </tr> <tr> <td data-bbox="885 1052 1198 1192"><b>Reseller Prefix</b></td> <td data-bbox="1203 1052 1516 1192">Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_</td> </tr> <tr> <td data-bbox="885 1199 1198 1234"><b>Admin Password</b></td> <td data-bbox="1203 1199 1516 1234">swiftstack_admin_password</td> </tr> <tr> <td data-bbox="885 1241 1198 1289"><b>Protocol</b></td> <td data-bbox="1203 1241 1516 1289">http or https</td> </tr> </tbody> </table>	<b>Cluster End Point</b>	IP address of PAC (proxy-account-container) endpoint.	<b>Admin User</b>	Admin user for swift to authenticate in keystone.	<b>Admin Tenant</b>	The service tenant corresponding to the Account-Container used by Swiftstack.	<b>Reseller Prefix</b>	Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_	<b>Admin Password</b>	swiftstack_admin_password	<b>Protocol</b>	http or https
<b>Cluster End Point</b>	IP address of PAC (proxy-account-container) endpoint.												
<b>Admin User</b>	Admin user for swift to authenticate in keystone.												
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<b>Admin Password</b>	swiftstack_admin_password												
<b>Protocol</b>	http or https												

- 9 If **Syslog Export** or **NFVBENCH** is selected in **Blueprint Initial Setup** page, the **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>NFVBENCH <b>enable checkbox</b> which by default is <b>false</b>. Add ToR information connected to switch:</p> <ul style="list-style-type: none"> <li>• Select a TOR Switch and enter the Switch name.</li> <li>• Enter the port number. For example:eth1/5. VTEP VLANS (mandatory and needed only for VXLAN): Enter 2 different VLANs for VLAN1 and VLAN2</li> <li>• NIC Ports: INT1 and INT2 optional input. Enter the 2 port numbers of the 4-port 10G Intel NIC at the management node used for NFVBench.</li> </ul>												

### Step 3 To create a C Series Blueprint:

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

Name	Description
Blueprint Name field	Enter the name for the blueprint configuration.
Platform Type drop-down list	<ul style="list-style-type: none"> <li>• B-Series (By default)</li> <li>• C-Series ( Select C Series)</li> </ul>



Name	Description
<b>Tenant Network</b> drop-down list	Choose one of the following tenant network types: <ul style="list-style-type: none"> <li>• Linux Bridge/VXLAN</li> <li>• OVS/VLAN</li> <li>• VTS/VLAN</li> <li>• VPP/VLAN</li> <li>• ACI/VLAN</li> </ul> <p><b>Note</b> when VTS/VLAN or ACI/VLAN is selected then respective tabs are available on Blueprint setup.</p>
<b>Pod Type</b> drop-down list	Choose one of the following pod type : <ul style="list-style-type: none"> <li>• Fullon(By Default)</li> <li>• Micro</li> <li>• UMHC</li> </ul> <p><b>Note</b> UMHC pod type is only supported for OVS/VLAN tenant type.  <b>Note</b> Pod type micro is supported for OVS/VLAN, ACI/VLAN, VPP/VLAN.</p>
<b>Ceph Mode</b> drop-down list	Choose one of the following Ceph types: <ul style="list-style-type: none"> <li>• Dedicated (By default)</li> <li>• Central</li> </ul>
<b>Optional and Services Features</b> checkbox	Swiftstack, LDAP, Syslog Export Settings, Install Mode, TorSwitch Information, TLS, NFVMON, Pod Name, VMTP, NFVBench, Autbackup, Heat, Keystone v3 If any one is selected, the corresponding section is visible in various Blueprint sections. By default all features are disabled.
<b>Import Existing YAML file</b> field	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 any missed mandatory field will be highlighted in the respective section.

- 2 Click **Physical Setup** to advance to the **Registry Setup** Configuration page. Fill in the following details for Registry Setup:

Name	Description
<b>Registry User Name</b> text field	User-Name for Registry <b>(Mandatory)</b> .
<b>Registry Password</b> text field	Password for Registry <b>(Mandatory)</b> .
<b>Registry Email</b> text field	Email ID for Registry <b>(Mandatory)</b> .

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

- 3 Click **CIMC Common Tab** and complete the following fields:

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

- 4 Click Networking to advance to the networking section of the Blueprint.

Name	Description
<b>Domain Name</b> field	Enter the domain name. (Mandatory)
<b>NTP Servers</b> field	Enter a maximum of four and minimum of one IPv4 and/or IPv6 addresses in the table.
<b>Domain Name Servers</b> field	Enter a maximum of three and minimum of one IPv4 and/or IPV6 addresses.
<b>HTTP Proxy Server</b> field	If your configuration uses an HTTP proxy server, enter the IP address of the server.
<b>HTTPS Proxy Server</b> field	If your configuration uses an HTTPS proxy server, enter the IP address of the server.

Name	Description
Networks table	

Name	Description				
	<p>Network table is pre-populated with Segments. To add Networks you can either clear all the table with <b>Delete all</b> or click <b>Edit</b> icon for each segment and fill in the details.</p> <p>You can add, edit, or delete network information in the table.</p> <ul style="list-style-type: none"> <li>• Click <b>Edit</b> to add new entries (networks) to the table.</li> <li>• Specify the following fields in the Edit Entry to Networks dialogue:</li> </ul> <table border="1" data-bbox="886 726 1484 1818"> <thead> <tr> <th data-bbox="886 726 1182 779">Name</th> <th data-bbox="1182 726 1484 779">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="886 779 1182 1818"><b>Segment</b> drop-down list</td> <td data-bbox="1182 779 1484 1818"> <p>When you add/edit new segment then following segments types are available in the form of dropdown list and you can select only one.</p> <ul style="list-style-type: none"> <li>• API</li> <li>• Management/provision</li> <li>• Tenant</li> <li>• Storage</li> <li>• External</li> <li>• Provider</li> <li>• ACIINFRA</li> </ul> <p><b>Note</b> <b>Aciinfra</b> 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> </td> </tr> </tbody> </table>	Name	Description	<b>Segment</b> drop-down list	<p>When you add/edit new segment then following segments types are available in the form of dropdown list and you can select only one.</p> <ul style="list-style-type: none"> <li>• API</li> <li>• Management/provision</li> <li>• Tenant</li> <li>• Storage</li> <li>• External</li> <li>• Provider</li> <li>• ACIINFRA</li> </ul> <p><b>Note</b> <b>Aciinfra</b> 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>
Name	Description				
<b>Segment</b> drop-down list	<p>When you add/edit new segment then following segments types are available in the form of dropdown list and you can select only one.</p> <ul style="list-style-type: none"> <li>• API</li> <li>• Management/provision</li> <li>• Tenant</li> <li>• Storage</li> <li>• External</li> <li>• Provider</li> <li>• ACIINFRA</li> </ul> <p><b>Note</b> <b>Aciinfra</b> 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>				

Name	Description	
	<b>VLAN field</b>	Enter the <b>VLAN ID</b> . For Segment - Provider, the VLAN ID value is 'none'.
	<b>Subnet ID field</b>	Enter the IPv4 address for the subnet.
	<b>Ipv6 subnet</b>	Enter Ipv6 Address. This field will be available only for Management provision and API
	<b>Gateway field</b>	Enter the IPv4 address for the Gateway.
	<b>Gateway IPv6field</b>	Enter the IPv6 address for the gateway.
	<b>Pool field</b>	Enter the pool information in the required format, for example: 10.1.1.5-10.1.1.10,102.15-102.1.10  This field is available only for the Mgmt/Provision, Storage, and Tenant segments.
	<b>IPv6 Poolfield</b>	Enter the pool information in the required format, for example 2001:c5c0:1234:5678:1002::11 to 2001:c5c0:1234:5678:1002::20
Click <b>Save</b> .		

- 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

Name	Description																			
<p><b>Add Entry to Servers and Roles</b></p> <p><b>Note</b> when Pod type micro is selected then all the three servers will be associated with control, compute and block storage role. For Example: Roles</p> <ul style="list-style-type: none"> <li>• Block Storage <ul style="list-style-type: none"> <li>◦ -Server 1</li> <li>◦ -Server 2</li> <li>◦ -Server 3</li> </ul> </li> <li>• Control <ul style="list-style-type: none"> <li>◦ -Server 1</li> <li>◦ -Server 2</li> <li>◦ -Server 3</li> </ul> </li> <li>• Compute <ul style="list-style-type: none"> <li>◦ -Server 1</li> <li>◦ -Server 2</li> <li>◦ -Server 3</li> </ul> </li> </ul> <p><b>Note</b> When Pod type UMHC is selected then auto ToR configuration is not supported and the ToR info at server and roles level is not allowed to be entered.</p>	<p>Click <b>Edit</b> or + to add a new server and role to the table.</p> <table border="1" data-bbox="850 373 1481 1241"> <tr> <td data-bbox="850 373 1166 436"><b>Server Name</b></td> <td data-bbox="1170 373 1481 436">Entry a friendly name.</td> </tr> <tr> <td data-bbox="850 443 1166 506"><b>Rack ID</b> field</td> <td data-bbox="1170 443 1481 506">The rack ID for the server.</td> </tr> <tr> <td data-bbox="850 512 1166 575"><b>VIC Slot</b> field</td> <td data-bbox="1170 512 1481 575">Enter a VIC Slot.</td> </tr> <tr> <td data-bbox="850 581 1166 644"><b>CIMC IP</b> field</td> <td data-bbox="1170 581 1481 644">Enter a IP address.</td> </tr> <tr> <td data-bbox="850 651 1166 714"><b>CIMC Username</b> field</td> <td data-bbox="1170 651 1481 714">Enter a Username.</td> </tr> <tr> <td data-bbox="850 720 1166 783"><b>CIMC Password</b> field</td> <td data-bbox="1170 720 1481 783">Enter a Password for CIMC.</td> </tr> <tr> <td data-bbox="850 789 1166 888">Select the <b>Role</b> from the drop down list</td> <td data-bbox="1170 789 1481 888">Choose Control or Compute or BlockStorage from the drop-down list.</td> </tr> <tr> <td data-bbox="850 894 1166 1052"><b>Management IP</b></td> <td data-bbox="1170 894 1481 1052">It is an optional field but if provided for one Server then it is mandatory to provide it for other Servers as well.</td> </tr> <tr> <td data-bbox="850 1058 1166 1241"><b>Management IPv6</b></td> <td data-bbox="1170 1058 1481 1241">Routable and valid IPv6 address. It is an optional field but if provided for one server then it is mandatory for all other servers as well.</td> </tr> </table>		<b>Server Name</b>	Entry a friendly name.	<b>Rack ID</b> field	The rack ID for the server.	<b>VIC Slot</b> field	Enter a VIC Slot.	<b>CIMC IP</b> field	Enter a IP address.	<b>CIMC Username</b> field	Enter a Username.	<b>CIMC Password</b> field	Enter a Password for CIMC.	Select the <b>Role</b> from the drop down list	Choose Control or Compute or BlockStorage from the drop-down list.	<b>Management IP</b>	It is an optional field but if provided for one Server then it is mandatory to provide it for other Servers as well.	<b>Management IPv6</b>	Routable and valid IPv6 address. It is an optional field but if provided for one server then it is mandatory for all other servers as well.
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<b>Management IPv6</b>	Routable and valid IPv6 address. It is an optional field but if provided for one server then it is mandatory for all other servers as well.																			
Click <b>Save or Add</b> .	On clicking <b>Save or Add</b> all information related to Servers and Roles gets saved.																			
<p>If <b>Configure ToR</b> checkbox is <b>True</b> with at-least one switch detail, these fields will be displayed for each server and this is similar to DP Tor: <b>Port Channel and Switch Name (Mandatory if Configure ToR is true)</b></p>	<ul style="list-style-type: none"> <li>• <b>Port Channel</b> field</li> <li>• <b>Switch Name</b> field</li> <li>• <b>Switch Port Info</b> field</li> </ul>	<ul style="list-style-type: none"> <li>• Enter the port channel input.</li> <li>• Enter the switch name.</li> <li>• Enter the switch port information.</li> </ul>																		

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

**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.

- 6 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
<b>Configure ToR</b> optional checkbox.	Enabling this checkbox, changes the configure ToR section from false to true.
<b>Note</b> If UMHC is selected as podtype, configure TOR is not allowed.	<b>Note</b> Configure tor is true then ToR switch info maps in servers

Name	Description																										
<p><b>ToR Switch Information</b> mandatory table if you want to enter ToR information.</p>	<p>Click (+) to add information for ToR Switch.</p> <table border="1" data-bbox="797 373 1479 1499"> <thead> <tr> <th data-bbox="797 373 1138 436">Name</th> <th data-bbox="1138 373 1479 436">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="797 436 1138 499"><b>Name</b></td> <td data-bbox="1138 436 1479 499">ToR switch name.</td> </tr> <tr> <td data-bbox="797 499 1138 562"><b>Username</b></td> <td data-bbox="1138 499 1479 562">TOR switch username.</td> </tr> <tr> <td data-bbox="797 562 1138 625"><b>Password</b></td> <td data-bbox="1138 562 1479 625">ToR switch password.</td> </tr> <tr> <td data-bbox="797 625 1138 688"><b>SSH IP</b></td> <td data-bbox="1138 625 1479 688">ToR switch SSH IP.</td> </tr> <tr> <td data-bbox="797 688 1138 751"><b>SSN Num</b></td> <td data-bbox="1138 688 1479 751">ToR switch ssn num.</td> </tr> <tr> <td data-bbox="797 751 1138 888"><b>VPC Peer Keepalive</b></td> <td data-bbox="1138 751 1479 888">Peer Management IP. You cannot define if there is no peer.</td> </tr> <tr> <td data-bbox="797 888 1138 982"><b>VPC Domain</b></td> <td data-bbox="1138 888 1479 982">Cannot define if there is no peer.</td> </tr> <tr> <td data-bbox="797 982 1138 1045"><b>VPC Peer Port Info</b></td> <td data-bbox="1138 982 1479 1045">Interface for vpc peer ports.</td> </tr> <tr> <td data-bbox="797 1045 1138 1140"><b>VPC Peer VLAN Info</b></td> <td data-bbox="1138 1045 1479 1140">VLAN ids for vpc peer ports (optional).</td> </tr> <tr> <td data-bbox="797 1140 1138 1234"><b>BR Management Port Info</b></td> <td data-bbox="1138 1140 1479 1234">Management interface of build node.</td> </tr> <tr> <td data-bbox="797 1234 1138 1360"><b>BR Management PO Info</b></td> <td data-bbox="1138 1234 1479 1360">Port channel number for management interface of build node.</td> </tr> <tr> <td data-bbox="797 1360 1138 1499"><b>BR Management VLAN info</b></td> <td data-bbox="1138 1360 1479 1499">VLAN id for management interface of build node (access).</td> </tr> </tbody> </table>	Name	Description	<b>Name</b>	ToR switch name.	<b>Username</b>	TOR switch username.	<b>Password</b>	ToR switch password.	<b>SSH IP</b>	ToR switch SSH IP.	<b>SSN Num</b>	ToR switch ssn num.	<b>VPC Peer Keepalive</b>	Peer Management IP. You cannot define if there is no peer.	<b>VPC Domain</b>	Cannot define if there is no peer.	<b>VPC Peer Port Info</b>	Interface for vpc peer ports.	<b>VPC Peer VLAN Info</b>	VLAN ids for vpc peer ports (optional).	<b>BR Management Port Info</b>	Management interface of build node.	<b>BR Management PO Info</b>	Port channel number for management interface of build node.	<b>BR Management VLAN info</b>	VLAN id for management interface of build node (access).
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Click <b>Save</b> .																											

**Note** When tenant type ACI/VLAN is selected, the TOR switch information table differs and is mandatory.

7 Name	Description
Configure ToR	Is not checked, as by default ACI will configure the ToRs



	Click + to add information for ToR Switch	
	Name	Description
	<b>Host Name</b>	ToR switch name.
	<b>VPC Peerkeep alive</b>	Peer info must exist in pair.
	<b>VPC Domain</b>	Enter an Integer.
	<b>BR Management Port Info</b>	Enter Br management port info eg. Eth1/19, must have a pair in the peer switch.
<b>Enter Node ID</b>	Entered Integer must be unique.	

- 8 Click **OpenStack Setup** Tab to advance to the **OpenStack Setup** Configuration page.
- 9 On the **OpenStack Setup** page of the Cisco VIM Insight wizard, complete the following fields:

Name	Description	
<b>HA Proxy</b>	Fill in the mandatory details:	
	<b>External VIP Address</b>	Enter IP address of External VIP.
	<b>Virtual Router ID</b>	Enter the Router ID for HA.
	<b>Internal VIP Address</b>	Enter IP address of Internal VIP.
	<b>External VIP IPv6 Address</b>	Enter IPv6 Address of External VIP.
	<b>Internal VIP IPv6 Address</b>	Enter IPv6 Address of Internal VIP.

Name	Description																												
<b>Keystone</b>	<p>Mandatory field are pre-populated.</p> <table border="1" data-bbox="803 373 1481 501"> <tr> <td data-bbox="803 373 1141 436"><b>Admin Username</b></td> <td data-bbox="1146 373 1481 436">admin.</td> </tr> <tr> <td data-bbox="803 436 1141 501"><b>Admin Tenant Name</b></td> <td data-bbox="1146 436 1481 501">admin.</td> </tr> </table>	<b>Admin Username</b>	admin.	<b>Admin Tenant Name</b>	admin.																								
<b>Admin Username</b>	admin.																												
<b>Admin Tenant Name</b>	admin.																												
<b>LDAP</b>	<p>This is available only when Keystone v3 and LDAP both are enabled under Optional Features and Services in Blueprint Initial Setup.</p> <table border="1" data-bbox="803 688 1481 1719"> <tr> <td data-bbox="803 688 1141 751"><b>Domain Name field</b></td> <td data-bbox="1146 688 1481 751">Enter name for Domain name.</td> </tr> <tr> <td data-bbox="803 751 1141 814"><b>Object Class for Users field</b></td> <td data-bbox="1146 751 1481 814">Enter a string as input.</td> </tr> <tr> <td data-bbox="803 814 1141 877"><b>Object Class for Groups</b></td> <td data-bbox="1146 814 1481 877">Enter a string.</td> </tr> <tr> <td data-bbox="803 877 1141 940"><b>Domain Name Tree for Users</b></td> <td data-bbox="1146 877 1481 940">Enter a string.</td> </tr> <tr> <td data-bbox="803 940 1141 1045"><b>Domain Name Tree for Groups field</b></td> <td data-bbox="1146 940 1481 1045">Enter a string.</td> </tr> <tr> <td data-bbox="803 1045 1141 1108"><b>Suffix for Domain Name field</b></td> <td data-bbox="1146 1045 1481 1108">Enter a string.</td> </tr> <tr> <td data-bbox="803 1108 1141 1213"><b>URL field</b></td> <td data-bbox="1146 1108 1481 1213">Enter a URL with ending port number.</td> </tr> <tr> <td data-bbox="803 1213 1141 1318"><b>Domain Name for Bind User field</b></td> <td data-bbox="1146 1213 1481 1318">Enter a string.</td> </tr> <tr> <td data-bbox="803 1318 1141 1402"><b>Password field</b></td> <td data-bbox="1146 1318 1481 1402">Enter Password as string format.</td> </tr> <tr> <td data-bbox="803 1402 1141 1465"><b>User Filter</b></td> <td data-bbox="1146 1402 1481 1465">Enter filter name as string.</td> </tr> <tr> <td data-bbox="803 1465 1141 1528"><b>User ID Attribute</b></td> <td data-bbox="1146 1465 1481 1528">Enter a string.</td> </tr> <tr> <td data-bbox="803 1528 1141 1591"><b>User Name Attribute</b></td> <td data-bbox="1146 1528 1481 1591">Enter a string.</td> </tr> <tr> <td data-bbox="803 1591 1141 1654"><b>User Mail Attribute</b></td> <td data-bbox="1146 1591 1481 1654">Enter a string.</td> </tr> <tr> <td data-bbox="803 1654 1141 1719"><b>Group Name Attribute</b></td> <td data-bbox="1146 1654 1481 1719">Enter a string.</td> </tr> </table>	<b>Domain Name field</b>	Enter name for Domain name.	<b>Object Class for Users field</b>	Enter a string as input.	<b>Object Class for Groups</b>	Enter a string.	<b>Domain Name Tree for Users</b>	Enter a string.	<b>Domain Name Tree for Groups field</b>	Enter a string.	<b>Suffix for Domain Name field</b>	Enter a string.	<b>URL field</b>	Enter a URL with ending port number.	<b>Domain Name for Bind User field</b>	Enter a string.	<b>Password field</b>	Enter Password as string format.	<b>User Filter</b>	Enter filter name as string.	<b>User ID Attribute</b>	Enter a string.	<b>User Name Attribute</b>	Enter a string.	<b>User Mail Attribute</b>	Enter a string.	<b>Group Name Attribute</b>	Enter a string.
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Name	Description												
<p><b>Neutron</b></p>	<p>Neutron fields will change based on <b>Tenant Network Type</b> selection from <b>Blueprint Initial Setup</b>.</p> <p>Following are the options available for Neutron for OVS/VLAN:</p> <table border="1" data-bbox="846 449 1516 1520"> <tbody> <tr> <td data-bbox="846 449 1182 611"><b>Tenant Network Type</b></td> <td data-bbox="1182 449 1516 611">Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="846 611 1182 772"><b>Mechanism Drivers</b></td> <td data-bbox="1182 611 1516 772">Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="846 772 1182 1150"><b>NFV Hosts</b></td> <td data-bbox="1182 772 1516 1150">Auto filled with the <b>Compute</b> added in Server and Roles.  Selecting <b>All</b> in this section of NFV_HOSTS: "ALL" will be added to the Blueprint or you can select the particular compute. For Eg:  NFV_HOSTS: compute-server-1, compute-server-2.</td> </tr> <tr> <td data-bbox="846 1150 1182 1245"><b>Tenant VLAN Ranges</b></td> <td data-bbox="1182 1150 1516 1245">Only with VTS/VXLAN and VPP/VLAN.</td> </tr> <tr> <td data-bbox="846 1245 1182 1308"><b>Enable Jumbo Frames</b></td> <td data-bbox="1182 1245 1516 1308">By default checkbox is false.</td> </tr> <tr> <td data-bbox="846 1308 1182 1520">Huge page size. This is available only when Compute node is present in NFV host</td> <td data-bbox="1182 1308 1516 1520">The following are the drop-downs: <ul style="list-style-type: none"> <li>• 2M</li> <li>• 1G</li> </ul> </td> </tr> </tbody> </table> <p>For Tenant Network Type Linux Bridge everything will remain the same but <b>Tenant VLAN Ranges</b> will be <b>Removed</b>.</p>	<b>Tenant Network Type</b>	Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.	<b>Mechanism Drivers</b>	Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.	<b>NFV Hosts</b>	Auto filled with the <b>Compute</b> added in Server and Roles.  Selecting <b>All</b> in this section of NFV_HOSTS: "ALL" will be added to the Blueprint or you can select the particular compute. For Eg:  NFV_HOSTS: compute-server-1, compute-server-2.	<b>Tenant VLAN Ranges</b>	Only with VTS/VXLAN and VPP/VLAN.	<b>Enable Jumbo Frames</b>	By default checkbox is false.	Huge page size. This is available only when Compute node is present in NFV host	The following are the drop-downs: <ul style="list-style-type: none"> <li>• 2M</li> <li>• 1G</li> </ul>
<b>Tenant Network Type</b>	Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.												
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<b>NFV Hosts</b>	Auto filled with the <b>Compute</b> added in Server and Roles.  Selecting <b>All</b> in this section of NFV_HOSTS: "ALL" will be added to the Blueprint or you can select the particular compute. For Eg:  NFV_HOSTS: compute-server-1, compute-server-2.												
<b>Tenant VLAN Ranges</b>	Only with VTS/VXLAN and VPP/VLAN.												
<b>Enable Jumbo Frames</b>	By default checkbox is false.												
Huge page size. This is available only when Compute node is present in NFV host	The following are the drop-downs: <ul style="list-style-type: none"> <li>• 2M</li> <li>• 1G</li> </ul>												
<p><b>CEPH</b></p>	<p>Ceph has two pre-populated fields:</p> <ul style="list-style-type: none"> <li>• <b>CEPH Mode</b> : By default <b>dedicated</b>.</li> <li>• <b>NOVA Boot</b>: Choose <b>Ceph or local</b> from the drop-down list.</li> </ul>												

Name	Description
<b>GLANCE</b>	By default populated for <b>CEPH Dedicated</b> with <b>Store Backend</b> value as <b>CEPH</b> .
<b>CINDER</b>	By default populated for <b>CEPH Dedicated</b> with <b>Volume Driver</b> value as <b>CEPH</b> .

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

Name	Description																										
	<p>Check one of the check boxes to specify a VMTP network:</p> <ul style="list-style-type: none"> <li>• Provider Network.</li> <li>• External Network.</li> </ul> <p>For the Provider Network complete the following:</p> <table border="1" data-bbox="805 537 1484 1178"> <tr> <td data-bbox="805 537 1143 632"><b>Network Name</b> field</td> <td data-bbox="1143 537 1484 632">Enter the name for the external network.</td> </tr> <tr> <td data-bbox="805 632 1143 726"><b>IP Start</b> field</td> <td data-bbox="1143 632 1484 726">Enter the starting floating IPv4 address.</td> </tr> <tr> <td data-bbox="805 726 1143 821"><b>IP End</b> field</td> <td data-bbox="1143 726 1484 821">Enter the ending floating IPv4 address</td> </tr> <tr> <td data-bbox="805 821 1143 915"><b>Gateway</b> field</td> <td data-bbox="1143 821 1484 915">Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td data-bbox="805 915 1143 1010"><b>DNS Server</b> field</td> <td data-bbox="1143 915 1484 1010">Enter the DNS server IPv4 address.</td> </tr> <tr> <td data-bbox="805 1010 1143 1083"><b>Segmentation ID</b> field</td> <td data-bbox="1143 1010 1484 1083">Enter the segmentation ID.</td> </tr> <tr> <td data-bbox="805 1083 1143 1178"><b>Subnet</b></td> <td data-bbox="1143 1083 1484 1178">Enter the Subnet for Provider Network.</td> </tr> </table> <p>For <b>External Network</b> fill in the following details:</p> <table border="1" data-bbox="805 1283 1484 1862"> <tr> <td data-bbox="805 1283 1143 1377"><b>Network Name</b> field</td> <td data-bbox="1143 1283 1484 1377">Enter the name for the external network.</td> </tr> <tr> <td data-bbox="805 1377 1143 1472"><b>Network IP Start</b> field</td> <td data-bbox="1143 1377 1484 1472">Enter the starting floating IPv4 address.</td> </tr> <tr> <td data-bbox="805 1472 1143 1566"><b>Network IP End</b> field</td> <td data-bbox="1143 1472 1484 1566">Enter the ending floating IPv4 address.</td> </tr> <tr> <td data-bbox="805 1566 1143 1661"><b>Network Gateway</b> field</td> <td data-bbox="1143 1566 1484 1661">Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td data-bbox="805 1661 1143 1755"><b>DNS Server</b> field</td> <td data-bbox="1143 1661 1484 1755">Enter the DNS server IPv4 address.</td> </tr> <tr> <td data-bbox="805 1755 1143 1862"><b>Subnet.</b></td> <td data-bbox="1143 1755 1484 1862">Enter the Subnet for External Network.</td> </tr> </table>	<b>Network Name</b> field	Enter the name for the external network.	<b>IP Start</b> field	Enter the starting floating IPv4 address.	<b>IP End</b> field	Enter the ending floating IPv4 address	<b>Gateway</b> field	Enter the IPv4 address for the Gateway.	<b>DNS Server</b> field	Enter the DNS server IPv4 address.	<b>Segmentation ID</b> field	Enter the segmentation ID.	<b>Subnet</b>	Enter the Subnet for Provider Network.	<b>Network Name</b> field	Enter the name for the external network.	<b>Network IP Start</b> field	Enter the starting floating IPv4 address.	<b>Network IP End</b> field	Enter the ending floating IPv4 address.	<b>Network Gateway</b> field	Enter the IPv4 address for the Gateway.	<b>DNS Server</b> field	Enter the DNS server IPv4 address.	<b>Subnet.</b>	Enter the Subnet for External Network.
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<b>Subnet</b> field	Enter the Subnet for External Network.												
<p><b>TLS</b> optional section, this will be visible only if TLS is selected from Blueprint Initial Setup Page.</p>	<p><b>TLS</b> has two options:</p> <ul style="list-style-type: none"> <li>• <b>External LB VIP FQDN</b> - Text Field.</li> <li>• <b>External LB VIP TLS</b> - True/False. By default this option is false.</li> </ul>												

Name	Description												
<p><b>SwiftStack</b> optional section will be visible only if SwiftStack is selected from Blueprint Initial Setup Page. SwiftStack is only supported with <b>KeyStone2</b>. If you select <b>Keystone3</b>, swiftstack will not be available to configure.</p>	<p>Following are the options that needs to be filled for SwiftStack:</p> <table border="1" data-bbox="803 373 1479 1045"> <tbody> <tr> <td data-bbox="803 373 1138 499"><b>Cluster End Point</b></td> <td data-bbox="1143 373 1479 499">IP address of PAC (proxy-account-container) endpoint.</td> </tr> <tr> <td data-bbox="803 506 1138 596"><b>Admin User</b></td> <td data-bbox="1143 506 1479 596">Admin user for swift to authenticate in keystone.</td> </tr> <tr> <td data-bbox="803 602 1138 753"><b>Admin Tenant</b></td> <td data-bbox="1143 602 1479 753">The service tenant corresponding to the Account-Container used by Swiftstack.</td> </tr> <tr> <td data-bbox="803 760 1138 915"><b>Reseller Prefix</b></td> <td data-bbox="1143 760 1479 915">Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_</td> </tr> <tr> <td data-bbox="803 921 1138 978"><b>Admin Password</b></td> <td data-bbox="1143 921 1479 978">swiftstack_admin_password</td> </tr> <tr> <td data-bbox="803 984 1138 1045"><b>Protocol</b></td> <td data-bbox="1143 984 1479 1045">http or https</td> </tr> </tbody> </table>	<b>Cluster End Point</b>	IP address of PAC (proxy-account-container) endpoint.	<b>Admin User</b>	Admin user for swift to authenticate in keystone.	<b>Admin Tenant</b>	The service tenant corresponding to the Account-Container used by Swiftstack.	<b>Reseller Prefix</b>	Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_	<b>Admin Password</b>	swiftstack_admin_password	<b>Protocol</b>	http or https
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<b>Reseller Prefix</b>	Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_												
<b>Admin Password</b>	swiftstack_admin_password												
<b>Protocol</b>	http or https												

**Note** When tenant type ACI/VLAN is selected then ACIINFO 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 field	Enter Password.
apic_system_id field	Enter input as string. Max length 8.
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

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

Name	Description												
Syslog Export	<p>Following are the options for Syslog Settings:</p> <table border="1" data-bbox="623 373 1477 793"> <tr> <td data-bbox="623 373 1052 436"><b>Remote Host</b></td> <td data-bbox="1052 373 1477 436">Enter Syslog IP Address.</td> </tr> <tr> <td data-bbox="623 436 1052 499"><b>Protocol</b></td> <td data-bbox="1052 436 1477 499">Supports only UDP.</td> </tr> <tr> <td data-bbox="623 499 1052 562"><b>Facility</b></td> <td data-bbox="1052 499 1477 562">Defaults to local5.</td> </tr> <tr> <td data-bbox="623 562 1052 625"><b>Severity</b></td> <td data-bbox="1052 562 1477 625">Defaults to debug.</td> </tr> <tr> <td data-bbox="623 625 1052 688"><b>Clients</b></td> <td data-bbox="1052 625 1477 688">Defaults to ELK.</td> </tr> <tr> <td data-bbox="623 688 1052 793"><b>Port</b></td> <td data-bbox="1052 688 1477 793">Defaults to 514 but can be modified by the User.</td> </tr> </table>	<b>Remote Host</b>	Enter Syslog IP Address.	<b>Protocol</b>	Supports only UDP.	<b>Facility</b>	Defaults to local5.	<b>Severity</b>	Defaults to debug.	<b>Clients</b>	Defaults to ELK.	<b>Port</b>	Defaults to 514 but can be modified by the User.
<b>Remote Host</b>	Enter Syslog IP Address.												
<b>Protocol</b>	Supports only UDP.												
<b>Facility</b>	Defaults to local5.												
<b>Severity</b>	Defaults to debug.												
<b>Clients</b>	Defaults to ELK.												
<b>Port</b>	Defaults to 514 but can be modified by the User.												
NFVBENCH	<p><b>NFVBENCH enable checkbox</b> by default is <b>false</b>.</p> <p>Add ToR information connect to Switch:</p> <ul style="list-style-type: none"> <li>• Select a TOR Switch and enter the Switch name.</li> <li>• Enter the port number. For Example: eth1/5 . VTEP VLANS (mandatory and needed only for VTS/VXLAN,): Enter 2 different VLANs for VLAN1 and VLAN2.</li> <li>• NIC Ports: INT1 and INT2 optional input. Enter the 2 port numbers of the 4-port 10G Intel NIC at the management node used for NFVBench.</li> </ul>												

**Step 4** Click **Offline validation**, to initiate an offline validation of the Blueprint.

**Step 5** Blueprint can also be created using an **Upload functionality**:

- In Blueprint Initial Setup.
- Click **Browse** in the blueprint initial setup.
- Select the YAML file you want to upload.
- Click **Select**.
- Clicking on **Load** in the Insight UI Application. All the fields present in the YAML file would be uploaded to the respective fields in UI.
- Enter the name of the Blueprint (Make sure you enter unique name while saving Blueprints. There would be no two Blueprints with same name.).
- Click **Offline Validation**.

- If all the mandatory fields in the UI are populated, then Offline Validation of the Blueprint will start else a pop up would be visible which will inform which section of Blueprint Creation has a missing information error.
- On Validation Success of Blueprint **Save Blueprint** button will be enabled with **Cancel** button
- A pop up will be generated asking to initiate the deployment with **Blueprint Name** and the stages you need to run. On Validation Failure of Blueprint **Cancel** button will be enabled.

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

The wizard advances to the Blueprint Management page. On the Blueprint Management page you can select the recently added Inactive Blueprint and click **Install** which is disabled by default.

A pop up will be generated asking to initiate the deployment with **Blueprint Name** and the stages you need to run.

By default all stages are selected but you can also do an incremented install.

In case of Incremented Install you should select stages in the order. For Example: If you select **Validation Stage** then the 2<sup>nd</sup> stage Management Node Orchestration will be enabled. You cannot skip stages and run a deployment.

Once you click **Proceed** the Cloud Deployment would be initiated and the progress can be viewed from **Dashboard**.

**Note** Once the Blueprint is in **Active** state, the **Post-Install** features listed in navigation bar will be changed to **Active** stage.

---

## Post Installation Features for Active Blueprint

This option is only available to a pod, which is successfully deployed. There are multiple sub-links available to manage the day-n operation of the pod. However, in many cases, Insight cross-launches the relevant services, thereby delegating the actual rendering to the individual services.

### Monitoring the Pod

VIM 2.2 uses 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** Click **Click here to view Kibana logs in new tab** link to view Kibana Logs in a new tab.
-

## 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 **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 a Cross launch browser 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

Endpoints Tests:

- 1 cinder\_endpoint
- 2 glance\_endpoint
- 3 keystone\_endpoint
- 4 nova\_endpoint
- 5 neutron\_endpoint
- 6 all\_endpoint\_tests

Operator Tests:

- 1 rabbitmq\_check
- 2 galera\_check
- 3 ceph\_check
- 4 node\_check
- 5 docker\_check
- 6 all\_operator\_tests

## 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.
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
<b>CIMC_COMMON</b> old Password	<b>CIMC_COMMON</b> old password field cannot be edited.
<b>CIMC-COMMON</b> new Password	Enter new <b>CIMC-COMMON</b> password. Password should be alphanumeric according to the password rule.
Click <b>Update Password</b>	Old <b>CIMC-COMMON</b> password will be updated with new <b>CIMC-COMMON</b> password.

## POD Management

One of the key aspects of Cisco VIM is that it provides the ability for the admin to perform pod life-cycle management from a hardware and software perspective. Nodes of a given pod corrupts at times and VIM provides the ability to add, remove or replace nodes, based on the respective roles with some restrictions. Details of pod management will be listed in the admin guide, however as a summary the following operations are allowed on a running pod:

**Step 1** **Add or Remove Storage Nodes:** You can add one node at a time, given that we run Ceph as a distributed storage offering.

**Step 2** **Add or Remove Computes Nodes:** N-computes nodes can be replaced simultaneously; however at any given point, at least one compute node should be active.

**Step 3** **Replace Control Nodes:** We do not support double fault scenarios, replacement of one controller at a time is supported.

## System Update

As part of the lifecycle management of the cloud, VIM has the ability to bring in patches (bug fixes related to code, security, etc.), thereby providing the additional value of seamless cloud management from software perspective. Software update of the cloud is achieved by uploading a valid tar file following initiation of a System Update from the Insight as follows:

- 
- Step 1** In the Navigation pane, click **Post-Install > System Update**.
  - Step 2** Click **Browse** button.
  - Step 3** Select the valid tar file.
  - Step 4** Click **Open > Upload and Update** .  
Message stating System Update has been initiated will be displayed. Logs front-ended by hyperlink would be visible in the section below before Update Logs to help see the progress of the update. During the software update, all other pod management activities will be disabled. Post-update, normal cloud management will commence.
- 

## Reconfigure Password

There are two options to regenerate the Password:

- 1 Regenerate all passwords:** Click the checkbox of Regenerate all passwords and click **Set Password**. This will automatically regenerate all passwords in alphanumeric format.
- 2 Regenerate single or more password:** If user wants to set a specific password for any service like Horizon's ADMIN\_USER\_PASSWORD they can add it by doing an inline edit. Double click on the filed under Password and then enter the password which will enable **Set Password** button.




---

**Note** During the reconfiguration of password, all other pod management activities will be disabled. Post-update, normal cloud management will commence.

---

## Reconfigure Openstack Services, TLS certs and ELK configurations

Cisco VIM supports the reconfiguration of OpenStack log level services, TLS certificates, and ELK configuration. Listed below are the steps to reconfigure the OpenStack and other services:

- 
- Step 1** In the Navigation pane, click **Post-Install > Reconfigure OpenStack Config**.
  - Step 2** Click on the specific item to be changed and updated; For TLS certificate it is the path to certificate location.
  - Step 3** Enter **Set Config** and the process will commence.  
During the reconfiguration process, all other pod management activities will be disabled. Post-update, normal cloud management will commence.



## Reconfigure Optional Services

Cisco VIM offers optional services such as heat, migration to Keystone v3, NFVBench, NFVIMON and so on, that can be enabled as post-pod deployment. Optional services can be un-configured as post-deployment in 2.2 feature. These services can be enabled in one-shot or selectively. Listed below are the steps to enable optional services:

**Step 1** In the Navigation pane, click **Post-Install > Reconfigure Optional Services**.

**Step 2** Choose the right service and update the fields with the right values.

**Step 3** Enter **Reconfigure** to commence the process.

During the reconfiguration process, all other pod management activities will be disabled. Post-update, normal cloud management will commence. Once reconfigure is initiated then optional feature would be updated in active blueprint. If reconfigure of Optional Services fail in the time of reconfigure process then it is advised to contact CiscoTAC to resolve the situation through CLI.

**Note** All reconfigure operation feature contains repeated deployment true or false.

- Repeated re-deployment true - Feature can be re-deployed again.
- Repeated re-deployment false- Deployment of feature allowed only once.

### Deployment Status :

Optional Features	
APICINFO	True
EXTERNAL_LB_VIP_FQDN	False
EXTERNAL_LB_VIP_TLS	False
INSTALL_MODE	True
LDAP	True
NETWORKING	True
NFVBENCH	False
NFVIMON	False
PODNAME	False
PROVIDER_VLAN_RANGES	True

<b>Optional Features</b>	
SWIFTSTACK	True
SYSLOG_EXPORT_SETTINGS	False
TENANT_VLAN_RANGES	True
TORSWITCHINFO	False
VIM _ ADMINS	True
VMTP	False
VTS_PARAMETERS	False
AUTOBACKUP	True
Heat	False
Keystone v3	False

## Pod User Administration

Cisco VIM Insight offers Users (Pod Admin(s) or Pod Users) to manage Users and roles associated with them.

### Managing Roles

To create a new Role

- Step 1** Click **Login as POD User**.
- Step 2** Navigate to **Pod User Administration** and click **Manage Roles**. By default you will see full-pod-access role in the table.
- Step 3** Click **Add Role** to create a new role.
- Step 4** Complete the following fields in the **Add Roles** page in Cisco VIM Insight:

Field Name	Field Description
Role	Enter the name of the role.
Description	Enter the description of the role.

Field Name	Field Description
Permission	Check the <b>Permission</b> checkbox to select the permission.

**Step 5** Click **Save**. Once the Blueprint is in Active state all the permissions are same for C-series and B-series Pods other than Reconfigure CIMC Password which is missing for B-series Pod.

**Note** Permissions are divided in granular level where viewing **Dashboard** is the default role that is implicitly added while creating a role.

## Managing Users

To add new User

**Step 1** Click **Login as POD User**.

**Step 2** Navigate to **POD User Administration**.

**Step 3** Click **Manage Users**.

**Step 4** Click **Add Users** to add a new user.

**Step 5** Complete the following fields in the **Add Users** page of the Cisco VIM Insight:

Field Name	Field Description
Email ID	Enter the Email ID of the User.
User Name	Enter the User Name if the User is new. If the User is already registered to the Insight the User-Name gets auto-populated.
Role	Select the Role from the drop-down list.

**Step 6** Click **Save**.

## Managing Root CA Certificate

You can update the CA Certificate during the registration of the POD. Once, logged in as POD User and if you have the permission to update the certificate you can view under POD User Administration>> Manage Root CA Certificate.

To update the Certificate:

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**Step 1** Click **Login as POD User**

**Step 2** Navigate to **POD User Administration>>Manage Root CA certificate.**

**Step 3** Click **Browse** and select the certificate that you want to upload.

**Step 4** Click **Upload.**

- If the certificate is Invalid, and does not matches with the certificate on the management node located at (var/www/mercury/mercury-ca.crt) then Insight will revert the certificate which was working previously.
- If the Certificate is valid, Insight will run a management node health check and then update the certificate with the latest one.

**Note** The CA Certificate which is uploaded should be same as the one which is in the management node.

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