



# Installing Cisco VIM through Cisco VIM Insight (Tech Preview)

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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 , on page 1](#)
- [Configuring OpenStack Installation, on page 9](#)
- [Post Installation Features for Active Blueprint, on page 30](#)

## 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 and the **Register** button is enabled.

**Figure 1: Register Management Node**

- f) Click **Register** to move to the login page and Pod Admin will get a notification mail.

## 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.

## The VIM Insight UI

The VIM Insight UI is divided into four parts:

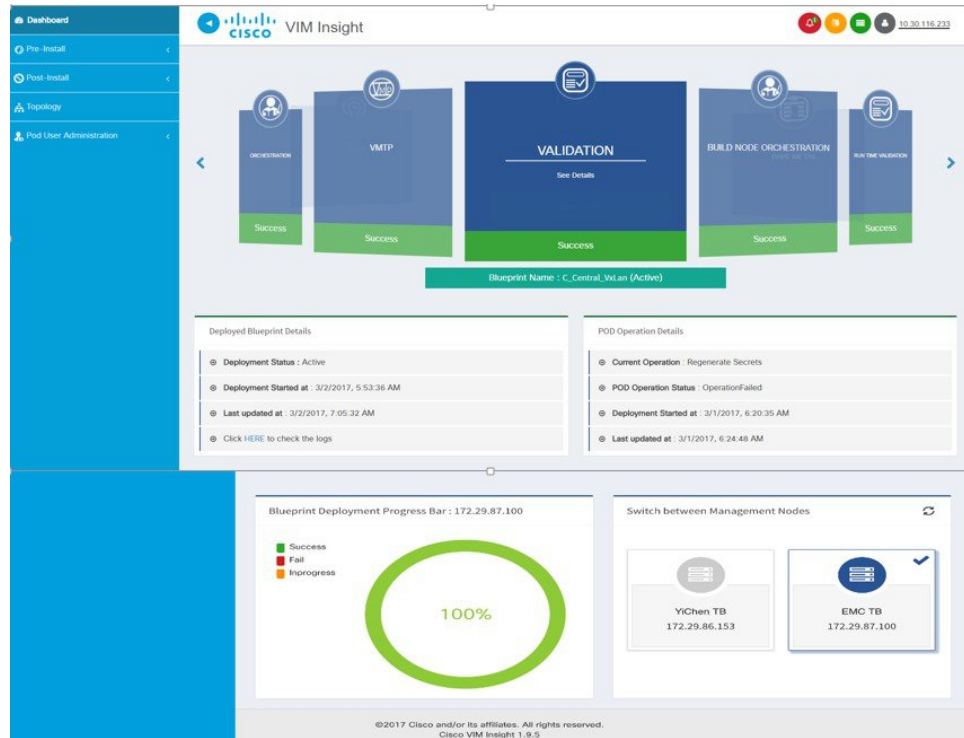
### 1. Dashboard

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 Carousel 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:

- 1. Deployed Blueprint Details:** Shows information about the current Blueprint (Active/In-Progress). In case of an Inactive Blueprint, the table will be blank.
  - 1. Deployment Status:** This tells the status of the Blueprint. There are 3 stages of a Blueprint : Active, in-progress and Failed. In case 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 carousel will directly jump to that particular stage.
  - 2. Deployment Started at:** This tells the time when the installation was started.
  - 3. Last Updated at:** This tells the last updated time of the installation.
  - 4. 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".
- 2. 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:
  - 1. Current Operation:** Name of the Operation Running.
  - 2. POD Operation Status:** Status of the Operation.
  - 3. Operation Started at:** Operation Start time.
  - 4. Last Updated at:** Operation last update time.
- 3. Blueprint Deployment Progress bar for a given POD:** Shows the Blueprint success or failure state in percentage.
- 4. Switch Between Management Nodes:** Will be covered later in this chapter.

Figure 2: VIM Insight Dashboard



## 2. Pre-install

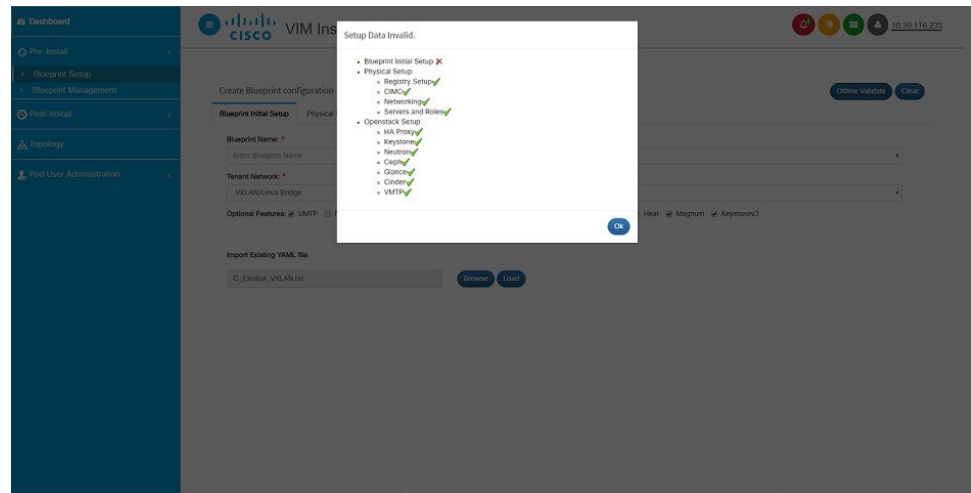
This section has two menus:

1. **Blueprint Setup:** Blueprint is the YAML (setupdata) present in the Management node. There are two ways to create a Blueprint:
  1. Form based through the UI.
  2. 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, COLLECTED, Auto configuration of ToR, Optional services like Heat, Keystone3 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.

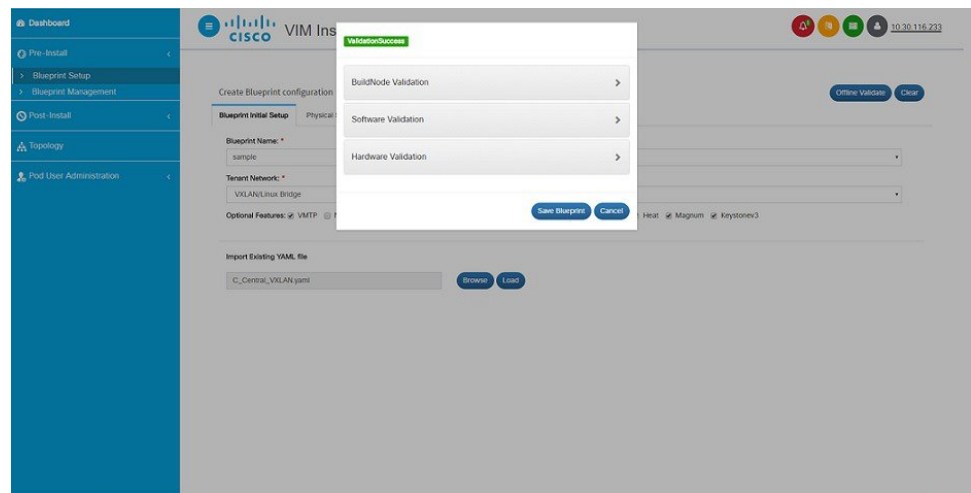
Offline Validation will only take place if all the fields marked in Blueprint are filled and there are no client side validations remaining. Even if they are the Offline Validation, pop up will show which field is missing.

Figure 3: Blueprint Creation

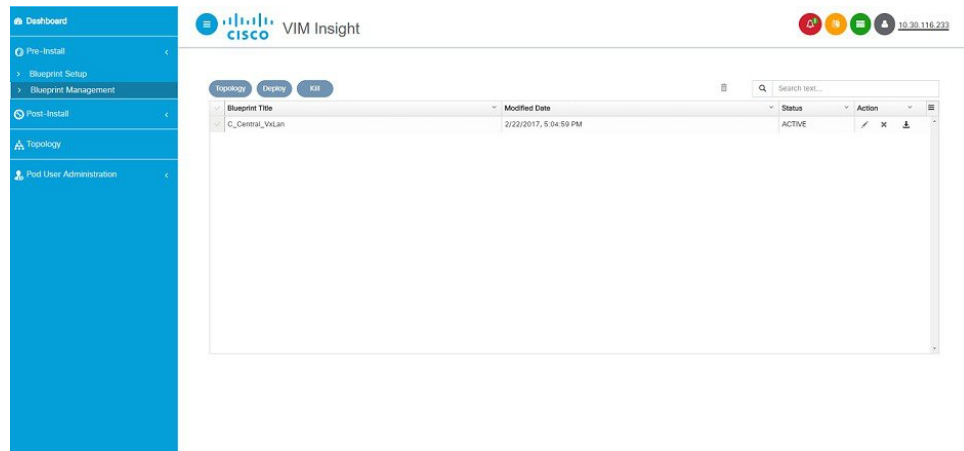


After filling all the details offline validation will take place, if successful, **Save Blueprint** option will be enabled, else user will not be allowed to save the Blueprint. Click **Save blueprint** to be redirected to Blueprint Management.

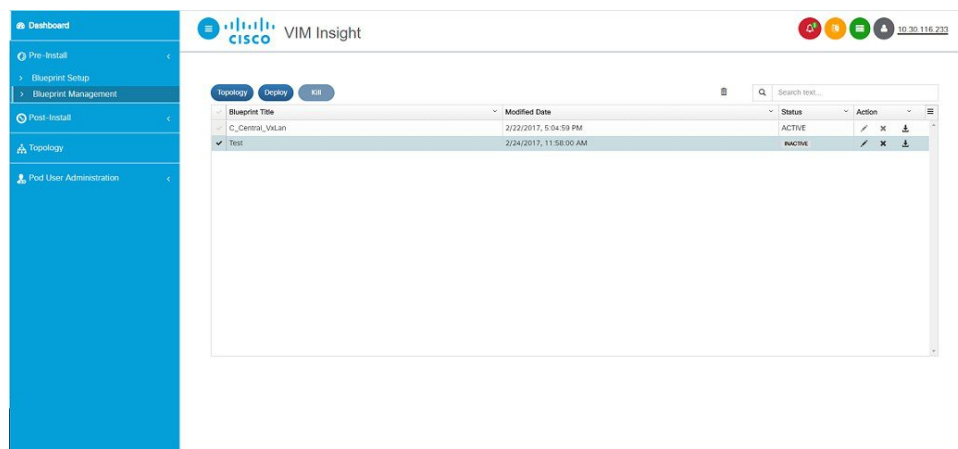
Figure 4: Blueprint Successful



- 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**

1. Delete Single or Multiple Blueprints which are in Inactive State.
2. Edit Blueprint which are in Inactive State.
3. Deploy Blueprint.
4. Uninstall or Abort Blueprint.
5. View Topology.
6. Preview and Download created Blueprint on local machine.
7. Search Blueprint from created Blueprints.

**Figure 6: Blueprint Management Test**

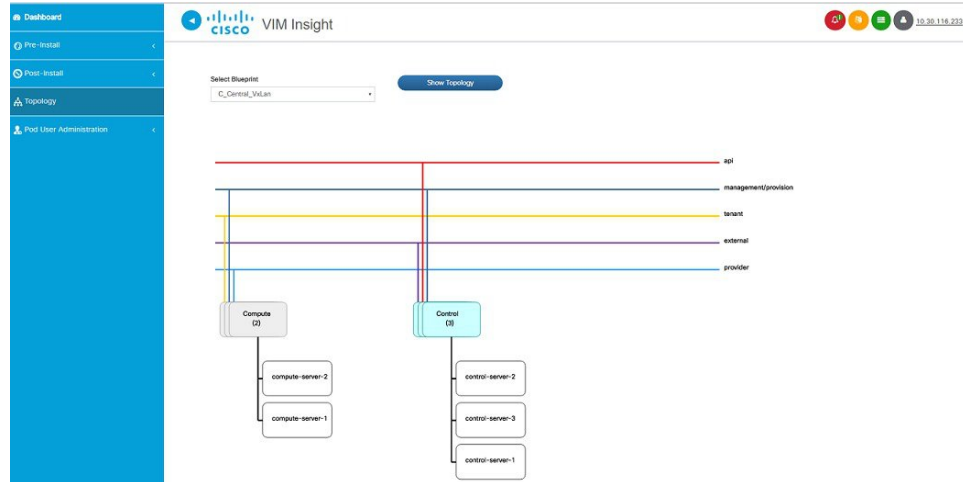
### 3. Post-install.

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**



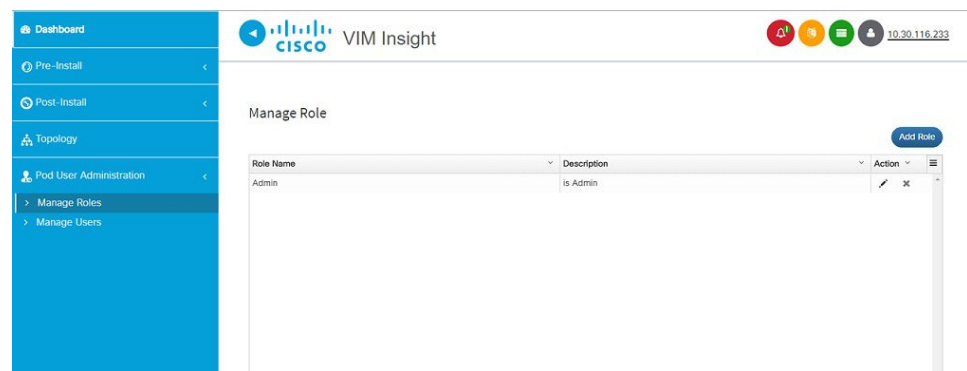
## 5. Pod User Administration

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:

### 1. Manage Roles:

1. Add/Edit/Delete Roles.
2. Permissions to restrict the user access.
3. Roles provide the granular access to a specific user.
4. A role cannot be deleted directly if it is associated to an user.

**Figure 8: Manage roles**

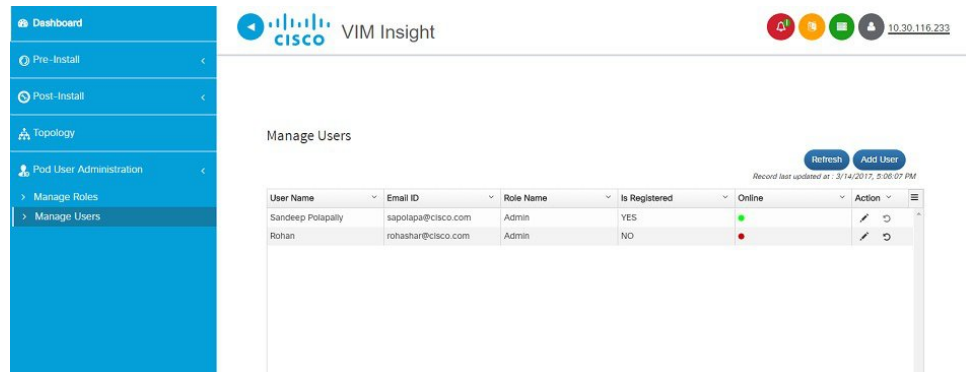


### 2. Manage Users:

1. Add/Edit/Delete Users.

2. List User name and Email ID for the users registered in the system.
3. Roles associated to users.
4. The current status of the user (Online and Offline user with Green and Red dot respectively).
5. User registration status.
6. 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 Switch from UI to pod admin or vice-versa.

## 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 third 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 form 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 blueprint configuration name.
<b>Platform Type</b> drop-down list	B-Series (By Default) and C-Series
<b>Tenant Network</b> drop-down list	Choose one of the following tenant network types: <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 (By Default)</li> <li>• Central</li> </ul>
<b>Optional and ServicesFeatures</b> Checkbox	Swiftstack, LDAP, Syslog Export Settings, COLLECTD, Install Mode, TorSwitch Information, TLS, Nfvmon, Pod Name, VMTP, Nfvbench, Auto Backup, Heat, Keystone v3  If any one is selected, the corresponding section is visible in various Blueprint sections.  By default all features are disabled.
<b>Import Existing YAML file</b>	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> ).

Name	Description
<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.

- Click **UCSM 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	By default value is Admin.
<b>UCSM IP</b> text field	Enter Password for UCSM Common ( <b>Mandatory</b> ).
<b>Resource Prefix</b> text field	Max six characters are allowed ( <b>Mandatory</b> ).
<b>QOS Policy Type</b> drop-down	Choose one of the following types: <ul style="list-style-type: none"> <li>• NFVI (Default)</li> <li>• Media</li> </ul>
<b>Enable Prov FI PIN</b> optional checkbox	Default is false.
<b>MRAID-CARD</b> optional checkbox	Enables JBOD mode to be set on disks. Applicable only if you have RAID controller configured on Storage C240 Rack servers.
<b>Enable UCSM Plugin</b> optional checkbox	Visible when Tenant Network type is OVS/VLAN
<b>Enable QoS Policy</b> optional checkbox	Visible only when UCSM Plugin is enabled. If UCSM Plugin is disabled then this option is set to False.
<b>Enable QOS for Port Profile</b> optional checkbox	Set True only when UCSM plugin and QoS Policy is enabled else this is set to false.
<b>SRIOV Multi VLAN Trunk</b> optional grid	Visible when UCSM Plugin is enabled. Enter the values for network and vlans ranges. Grid can handle all CRUD operations like Add, Delete, Edit and, Multiple Delete.

- Click **Networking** to advance to the networking section of the Blueprint:

Name	Description
<b>Domain Name</b> field	Enter the domain name ( <b>Mandatory</b> ).
<b>NTP Servers</b> field	Enter a maximum of four and minimum of one IPv4 addresses in the table.
<b>Domain Name Servers</b> field	Enter a maximum of three and minimum of one IPv4 addresses.

Name	Description
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	<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> dialog box.</li> </ul> <table border="1" data-bbox="886 688 1489 1696"> <thead> <tr> <th data-bbox="886 688 1187 737">Name</th> <th data-bbox="1193 688 1489 737">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="886 745 1187 793">Segment drop-down list.</td> <td data-bbox="1193 745 1489 793">By default already selected.</td> </tr> <tr> <td data-bbox="886 802 1187 1056">Management Node IP field.</td> <td data-bbox="1193 802 1489 1056">Enter the IP address of the build node.  This field is only available for the Mgmt/Provision segment and is mandatory if Zenoss is selected to be a part of Blueprint.</td> </tr> <tr> <td data-bbox="886 1064 1187 1224">VLAN field.</td> <td data-bbox="1193 1064 1489 1224">Enter the VLAN ID.  For Segment - Provider, the VLAN ID value is always "none".</td> </tr> <tr> <td data-bbox="886 1232 1187 1314">Subnet field.</td> <td data-bbox="1193 1232 1489 1314">Enter the IPv4 address for the subnet.</td> </tr> <tr> <td data-bbox="886 1323 1187 1404">Gateway field.</td> <td data-bbox="1193 1323 1489 1404">Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td data-bbox="886 1413 1187 1696">Pool field.</td> <td data-bbox="1193 1413 1489 1696">Enter the pool information in the required format, for example: 10.1.15-10.1.1.10,102.15-102.1.10  This field is available for the Mgmt/Provision, Storage, and Tenant segments.</td> </tr> </tbody> </table> <p>Click <b>Save</b>.</p>	Name	Description	Segment drop-down list.	By default already selected.	Management Node IP field.	Enter the IP address of the build node.  This field is only available for the Mgmt/Provision segment and is mandatory if Zenoss is selected to be a part of Blueprint.	VLAN field.	Enter the VLAN ID.  For Segment - Provider, the VLAN ID value is always "none".	Subnet field.	Enter the IPv4 address for the subnet.	Gateway field.	Enter the IPv4 address for the Gateway.	Pool field.	Enter the pool information in the required format, for example: 10.1.15-10.1.1.10,102.15-102.1.10  This field is available for the Mgmt/Provision, Storage, and Tenant segments.
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Pool field.	Enter the pool information in the required format, for example: 10.1.15-10.1.1.10,102.15-102.1.10  This field is available for the Mgmt/Provision, Storage, and Tenant segments.														

5. On the **Servers and Roles** page of the Cisco VIM Suite wizard, you will see a pre-populated table filled with Roles: Control, Compute and Block Storage (Only if CEPH Dedicated is selected in Blueprint Initial Setup. You can clear

the table and click **Add (+)** to add a new entry in the table, and complete the following fields: You can edit or delete existing entries in the **Server and Roles** table.

Name	Description		
<b>Add Entry to Servers and Roles</b>	Click <b>Edit</b> or + to add a new server and role to the table.		
	<table border="1"> <tr> <td data-bbox="922 417 1224 470"><b>Server Name.</b></td> <td data-bbox="1224 417 1520 470">Enter a server name</td> </tr> </table>	<b>Server Name.</b>	Enter a server name
	<b>Server Name.</b>	Enter a server name	
	<table border="1"> <tr> <td data-bbox="922 476 1224 558"><b>Server Type</b> drop-down list</td> <td data-bbox="1224 476 1520 558">Choose Blade or Rack from the drop-down list.</td> </tr> </table>	<b>Server Type</b> drop-down list	Choose Blade or Rack from the drop-down list.
	<b>Server Type</b> drop-down list	Choose Blade or Rack from the drop-down list.	
	<table border="1"> <tr> <td data-bbox="922 564 1224 617"><b>Rack ID</b> field</td> <td data-bbox="1224 564 1520 617">The Rack ID for the server.</td> </tr> </table>	<b>Rack ID</b> field	The Rack ID for the server.
	<b>Rack ID</b> field	The Rack ID for the server.	
	<table border="1"> <tr> <td data-bbox="922 623 1224 676"><b>Chassis ID</b> field</td> <td data-bbox="1224 623 1520 676">Enter a Chassis ID.</td> </tr> </table>	<b>Chassis ID</b> field	Enter a Chassis ID.
<b>Chassis ID</b> field	Enter a Chassis ID.		
<table border="1"> <tr> <td data-bbox="922 682 1224 764">If Rack is chosen, the <b>Rack Unit ID</b> field is displayed.</td> <td data-bbox="1224 682 1520 764">Enter a Rack Unit ID.</td> </tr> </table>	If Rack is chosen, the <b>Rack Unit ID</b> field is displayed.	Enter a Rack Unit ID.	
If Rack is chosen, the <b>Rack Unit ID</b> field is displayed.	Enter a Rack Unit ID.		
<table border="1"> <tr> <td data-bbox="922 770 1224 852">If Blade is chosen, the <b>Blade ID</b> field is displayed.</td> <td data-bbox="1224 770 1520 852">Enter a Blade ID.</td> </tr> </table>	If Blade is chosen, the <b>Blade ID</b> field is displayed.	Enter a Blade ID.	
If Blade is chosen, the <b>Blade ID</b> field is displayed.	Enter a Blade ID.		
<table border="1"> <tr> <td data-bbox="922 858 1224 940">If Rack is chosen, the Rack Unit ID field is displayed.</td> <td data-bbox="1224 858 1520 940">Enter a Rack Unit ID.</td> </tr> </table>	If Rack is chosen, the Rack Unit ID field is displayed.	Enter a Rack Unit ID.	
If Rack is chosen, the Rack Unit ID field is displayed.	Enter a Rack Unit ID.		
<table border="1"> <tr> <td data-bbox="922 947 1224 1096">Select the <b>Role</b> from the drop down list.</td> <td data-bbox="1224 947 1520 1096">If Server type is Blade then select <b>Control and Compute</b>. If server is Rack then select <b>Block Storage</b>.</td> </tr> </table>	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> .	
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> .		
<table border="1"> <tr> <td data-bbox="922 1102 1224 1289"><b>Management IP.</b></td> <td data-bbox="1224 1102 1520 1289">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> </table>	<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 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>Save or Add</b> button.	Click <b>Save or Add</b> button, to give information for Servers and Roles; provided, all mandatory fields are filled.		

- 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
<b>Configure ToR</b> optional checkbox.	Enabling this checkbox, changes the configure tor section from false to true.

Name	Description	
<b>ToR Switch Information</b> 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 num.
	<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 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).	
On clicking save button, <b>Add Tor Info Connected to Fabric</b> field will be visible.	<b>Port Channel</b> field.	Enter the Port Channel input.
	<b>Switch Name</b> Field.	Enter the friendly name.

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

Name	Description		
<b>HA Proxy</b>	Mandatory Field. Fill in the following details:		
	<table border="1"> <tr> <td data-bbox="889 352 1205 428"><b>External VIP Address</b></td> <td data-bbox="1211 352 1523 428">Enter IP Address of External VIP</td> </tr> </table>	<b>External VIP Address</b>	Enter IP Address of External VIP
	<b>External VIP Address</b>	Enter IP Address of External VIP	
	<table border="1"> <tr> <td data-bbox="889 436 1205 491"><b>Virtual Router ID</b></td> <td data-bbox="1211 436 1523 491">Enter the Router ID for HA</td> </tr> </table>	<b>Virtual Router ID</b>	Enter the Router ID for HA
<b>Virtual Router ID</b>	Enter the Router ID for HA		
<table border="1"> <tr> <td data-bbox="889 499 1205 575"><b>Internal VIP Address</b></td> <td data-bbox="1211 499 1523 575">Enter IP Address of Internal VIP</td> </tr> </table>	<b>Internal VIP Address</b>	Enter IP Address of Internal VIP	
<b>Internal VIP Address</b>	Enter IP Address of Internal VIP		
<b>Keystone</b>	Mandatory field and prepopulated. This option would always be true.		
	<table border="1"> <tr> <td data-bbox="889 684 1205 730"><b>Admin Username</b></td> <td data-bbox="1211 684 1523 730">admin</td> </tr> </table>	<b>Admin Username</b>	admin
	<b>Admin Username</b>	admin	
<table border="1"> <tr> <td data-bbox="889 739 1205 785"><b>Admin Tenant Name</b></td> <td data-bbox="1211 739 1523 785">admin</td> </tr> </table>	<b>Admin Tenant Name</b>	admin	
<b>Admin Tenant Name</b>	admin		
<b>Ldap on keystone</b>	<b>Ldap enable checkbox</b> by default is <b>false</b> .		
	<table border="1"> <tr> <td data-bbox="889 865 1205 940"><b>Domain Name</b>field.</td> <td data-bbox="1211 865 1523 940">Enter name for Domain name.</td> </tr> </table>	<b>Domain Name</b> field.	Enter name for Domain name.
	<b>Domain Name</b> field.	Enter name for Domain name.	
	<table border="1"> <tr> <td data-bbox="889 949 1205 995"><b>Object class for User</b>field.</td> <td data-bbox="1211 949 1523 995">Enter a string as input.</td> </tr> </table>	<b>Object class for User</b> field.	Enter a string as input.
	<b>Object class for User</b> field.	Enter a string as input.	
	<table border="1"> <tr> <td data-bbox="889 1003 1205 1050"><b>Object class for Group</b></td> <td data-bbox="1211 1003 1523 1050">Enter a string.</td> </tr> </table>	<b>Object class for Group</b>	Enter a string.
	<b>Object class for Group</b>	Enter a string.	
	<table border="1"> <tr> <td data-bbox="889 1058 1205 1134"><b>Domain Name tree for Groups</b></td> <td data-bbox="1211 1058 1523 1134">Enter a string.</td> </tr> </table>	<b>Domain Name tree for Groups</b>	Enter a string.
	<b>Domain Name tree for Groups</b>	Enter a string.	
<table border="1"> <tr> <td data-bbox="889 1142 1205 1218"><b>Domain Name tree for User</b> field.</td> <td data-bbox="1211 1142 1523 1218">Enter a string.</td> </tr> </table>	<b>Domain Name tree for User</b> field.	Enter a string.	
<b>Domain Name tree for User</b> field.	Enter a string.		
<table border="1"> <tr> <td data-bbox="889 1226 1205 1302"><b>Suffix for domain name</b> field.</td> <td data-bbox="1211 1226 1523 1302">Enter a string.</td> </tr> </table>	<b>Suffix for domain name</b> field.	Enter a string.	
<b>Suffix for domain name</b> field.	Enter a string.		
<table border="1"> <tr> <td data-bbox="889 1310 1205 1386"><b>URL</b> field.</td> <td data-bbox="1211 1310 1523 1386">Enter a URL with ending port number.</td> </tr> </table>	<b>URL</b> field.	Enter a URL with ending port number.	
<b>URL</b> field.	Enter a URL with ending port number.		
<table border="1"> <tr> <td data-bbox="889 1394 1205 1470"><b>Domain Name for Bind User</b> field.</td> <td data-bbox="1211 1394 1523 1470">Enter a string.</td> </tr> </table>	<b>Domain Name for Bind User</b> field.	Enter a string.	
<b>Domain Name for Bind User</b> field.	Enter a string.		
<table border="1"> <tr> <td data-bbox="889 1478 1205 1600"><b>Password</b> field.</td> <td data-bbox="1211 1478 1523 1600">Enter Password as string format.</td> </tr> </table>	<b>Password</b> field.	Enter Password as string format.	
<b>Password</b> field.	Enter Password as string format.		

Name	Description										
<b>Neutron</b>	<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="846 405 1489 1094"> <tr> <td data-bbox="846 405 1143 520"><b>Tenant Network Type</b></td> <td data-bbox="1143 405 1489 520">Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="846 520 1143 636"><b>Mechanism Drivers</b></td> <td data-bbox="1143 520 1489 636">Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="846 636 1143 968"><b>NFV Hosts</b></td> <td data-bbox="1143 636 1489 968">Auto filled with the Compute you added in Server and Roles. If you select All in this section NFV_HOSTS: "ALL" will be added to the Blueprint or else you can select particlula computes as well for eg: NFV_HOSTS: "compute-server-1, compute-server-2"</td> </tr> <tr> <td data-bbox="846 968 1143 1045"><b>Tenant VLAN Ranges</b></td> <td data-bbox="1143 968 1489 1045">Only with VTS/VLAN and VPP/VLAN</td> </tr> <tr> <td data-bbox="846 1045 1143 1094"><b>Enable Jumbo Frames</b></td> <td data-bbox="1143 1045 1489 1094">Check Box default is false</td> </tr> </table> <p>For Tenant Network Type Linux Bridge everything will remain the same but <b>Tenant VLAN Ranges</b> will be removed.</p>	<b>Tenant Network Type</b>	Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.	<b>Mechanism Drivers</b>	Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.	<b>NFV Hosts</b>	Auto filled with the Compute you added in Server and Roles. If you select All in this section NFV_HOSTS: "ALL" will be added to the Blueprint or else you can select particlula computes as well for eg: NFV_HOSTS: "compute-server-1, compute-server-2"	<b>Tenant VLAN Ranges</b>	Only with VTS/VLAN and VPP/VLAN	<b>Enable Jumbo Frames</b>	Check Box default is false
<b>Tenant Network Type</b>	Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.										
<b>Mechanism Drivers</b>	Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.										
<b>NFV Hosts</b>	Auto filled with the Compute you added in Server and Roles. If you select All in this section NFV_HOSTS: "ALL" will be added to the Blueprint or else you can select particlula computes as well for eg: NFV_HOSTS: "compute-server-1, compute-server-2"										
<b>Tenant VLAN Ranges</b>	Only with VTS/VLAN and VPP/VLAN										
<b>Enable Jumbo Frames</b>	Check Box default is false										
<b>CEPH</b>	<p>Ceph has two pre-populated fields</p> <ul style="list-style-type: none"> <li>• <b>CEPH Mode</b> : By default Dedicated.</li> <li>• <b>NOVA Boot from:</b> Drop Down selection. You can choose Ceph or local.</li> </ul>										
<b>GLANCE</b>	<p>By default populated for <b>CEPH Dedicated</b> with Store Backend value as <b>CEPH</b>.</p>										
<b>CINDER</b>	<p>By default Populated for <b>CEPH Dedicated</b> with Volume Driver value as <b>CEPH</b>.</p>										



Name	Description			
<p>VMTP optional section will only be visible once VMTP is selected from Blueprint Initial Setup.</p>	<p>Check one of the check boxes to specify a VMTP network:</p> <ul style="list-style-type: none"> <li>• Provider Network</li> <li>• External Network</li> </ul> <p>For the <b>Provider Network</b> complete the following:</p>			
	<table border="1"> <tr> <td data-bbox="889 516 1195 590"><b>Network Name</b> field</td> <td data-bbox="1211 516 1523 590">Enter the name for the external network.</td> </tr> </table>	<b>Network Name</b> field	Enter the name for the external network.	
	<b>Network Name</b> field	Enter the name for the external network.		
	<table border="1"> <tr> <td data-bbox="889 606 1195 680"><b>IP Start</b> field</td> <td data-bbox="1211 606 1523 680">Enter the starting floating IPv4 address.</td> </tr> </table>	<b>IP Start</b> field	Enter the starting floating IPv4 address.	
	<b>IP Start</b> field	Enter the starting floating IPv4 address.		
	<table border="1"> <tr> <td data-bbox="889 697 1195 770"><b>IP End</b> field</td> <td data-bbox="1211 697 1523 770">Enter the ending floating IPv4 address.</td> </tr> </table>	<b>IP End</b> field	Enter the ending floating IPv4 address.	
	<b>IP End</b> field	Enter the ending floating IPv4 address.		
	<table border="1"> <tr> <td data-bbox="889 787 1195 861"><b>Gateway</b> field</td> <td data-bbox="1211 787 1523 861">Enter the IPv4 address for the Gateway.</td> </tr> </table>	<b>Gateway</b> field	Enter the IPv4 address for the Gateway.	
	<b>Gateway</b> field	Enter the IPv4 address for the Gateway.		
	<table border="1"> <tr> <td data-bbox="889 877 1195 951"><b>DNS Server</b> field</td> <td data-bbox="1211 877 1523 951">Enter the DNS server IPv4 address.</td> </tr> </table>	<b>DNS Server</b> field	Enter the DNS server IPv4 address.	
	<b>DNS Server</b> field	Enter the DNS server IPv4 address.		
	<table border="1"> <tr> <td data-bbox="889 968 1195 1041"><b>Segmentation ID</b> field</td> <td data-bbox="1211 968 1523 1041">Enter the segmentation ID.</td> </tr> </table>	<b>Segmentation ID</b> field	Enter the segmentation ID.	
	<b>Segmentation ID</b> field	Enter the segmentation ID.		
	<table border="1"> <tr> <td data-bbox="889 1058 1195 1131"><b>Subnet</b></td> <td data-bbox="1211 1058 1523 1131">Enter the Subnet for Provider Network.</td> </tr> </table>	<b>Subnet</b>	Enter the Subnet for Provider Network.	
<b>Subnet</b>	Enter the Subnet for Provider Network.			
<p>For <b>External Network</b> fill in the following details:</p>				
<table border="1"> <tr> <td data-bbox="889 1178 1195 1251"><b>Network Name</b> field</td> <td data-bbox="1211 1178 1523 1251">Enter the name for the external network.</td> </tr> </table>	<b>Network Name</b> field	Enter the name for the external network.		
<b>Network Name</b> field	Enter the name for the external network.			
<table border="1"> <tr> <td data-bbox="889 1268 1195 1341"><b>Network IP Start</b> field</td> <td data-bbox="1211 1268 1523 1341">Enter the starting floating IPv4 address.</td> </tr> </table>	<b>Network IP Start</b> field	Enter the starting floating IPv4 address.		
<b>Network IP Start</b> field	Enter the starting floating IPv4 address.			
<table border="1"> <tr> <td data-bbox="889 1358 1195 1432"><b>Network IP End</b> field</td> <td data-bbox="1211 1358 1523 1432">Enter the ending floating IPv4 address.</td> </tr> </table>	<b>Network IP End</b> field	Enter the ending floating IPv4 address.		
<b>Network IP End</b> field	Enter the ending floating IPv4 address.			
<table border="1"> <tr> <td data-bbox="889 1449 1195 1522"><b>Network Gateway</b> field</td> <td data-bbox="1211 1449 1523 1522">Enter the IPv4 address for the Gateway.</td> </tr> </table>	<b>Network Gateway</b> field	Enter the IPv4 address for the Gateway.		
<b>Network Gateway</b> field	Enter the IPv4 address for the Gateway.			
<table border="1"> <tr> <td data-bbox="889 1539 1195 1612"><b>DNS Server</b> field</td> <td data-bbox="1211 1539 1523 1612">Enter the DNS server IPv4 address.</td> </tr> </table>	<b>DNS Server</b> field	Enter the DNS server IPv4 address.		
<b>DNS Server</b> field	Enter the DNS server IPv4 address.			
<table border="1"> <tr> <td data-bbox="889 1629 1195 1703"><b>Subnet</b></td> <td data-bbox="1211 1629 1523 1703">Enter the Subnet for External Network.</td> </tr> </table>	<b>Subnet</b>	Enter the Subnet for External Network.		
<b>Subnet</b>	Enter the Subnet for External Network.			

Name	Description												
<b>TLS</b> This optional section will only be visible once TLS is selected from Blueprint Initial Setup Page.	<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>												
<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>Following are the options that needs to be filled for SwiftStack:</p> <table border="1"> <tbody> <tr> <td><b>Cluster End Point</b></td> <td>IP address of PAC (proxy-account-container) endpoint.</td> </tr> <tr> <td><b>Admin User</b></td> <td>Admin user for swift to authenticate in keystone.</td> </tr> <tr> <td><b>Admin Tenant</b></td> <td>The service tenant corresponding to the Account-Container used by Swiftstack.</td> </tr> <tr> <td><b>Reseller Prefix</b></td> <td>Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_</td> </tr> <tr> <td><b>Admin Password</b></td> <td>swiftstack_admin_password</td> </tr> <tr> <td><b>Protocol</b></td> <td>http or https ?</td> </tr> </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.												
<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 ?												

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												
<b>Syslog Export</b>	<p>Following are the options for Syslog Settings:</p> <table border="1"> <tbody> <tr> <td><b>Remote Host</b></td> <td>Enter Syslog IP Addr.</td> </tr> <tr> <td><b>Protocol</b></td> <td>Drop-down selection for UDP and TCP by default is UDP.</td> </tr> <tr> <td><b>Facility</b></td> <td>Defaults to local5.</td> </tr> <tr> <td><b>Severity</b></td> <td>Defaults to debug.</td> </tr> <tr> <td><b>Clients</b></td> <td>Defaults to ELK.</td> </tr> <tr> <td><b>Port</b></td> <td>Defaults to 514 but can be modified by the User.</td> </tr> </tbody> </table>	<b>Remote Host</b>	Enter Syslog IP Addr.	<b>Protocol</b>	Drop-down selection for UDP and TCP by default is 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 Addr.												
<b>Protocol</b>	Drop-down selection for UDP and TCP by default is 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.												

Name	Description
NFVBENCH	<p><b>NFVBENCH enable checkbox</b> which by default is <b>false</b>.</p> <p><b>If Tor Configured:</b> (Optional).</p> <ul style="list-style-type: none"> <li>tor_info: {po: &lt;int&gt;, switch_a_hostname: ethx/y, switch_b_hostname: ethx/y}</li> <li>tor_info: {po: &lt;int&gt;, switch_c_hostname: 'etha/b,ethx/y'}</li> <li>nfvbench_vlan_info (when VTS option is choosen, and TORSWITCH Info is there; VLAN1:VLAN2; Correct format: start_vlan:end_vlan; with end_vlan " values"greater than start_vlan 1")</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
<b>Blueprint Name</b> field.	Enter the name for the blueprint configuration.
<b>Platform Type</b> drop-down list	<ul style="list-style-type: none"> <li>• B-Series (By Default)</li> <li>• C-Series ( Select C Series)</li> </ul>
<b>Tenant Network</b> drop-down list	<p>Choose one of the following tenant network types:</p> <ul style="list-style-type: none"> <li>• Linux Bridge/VXLAN</li> <li>• OVS/VLAN</li> <li>• VTS/VLAN</li> <li>• ML2VPP/VLAN</li> </ul>
<b>Ceph Mode</b> drop-down list	<p>Choose one of the following Ceph types:</p> <ul style="list-style-type: none"> <li>• Dedicated (By Default)</li> <li>• Central</li> </ul>
<b>Optional and Services Features</b> checkbox	<p>Swiftstack, LDAP, Syslog Export Settings, COLLECTD, 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 features are disabled.</p>
<b>Import Existing YAML file</b>	<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 any missed mandatory field will be highlighted in the respective section.</p>

- 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.

- 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> .

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

Name	Description
<b>Domain Name</b> field	Enter the domain name. <b>(Mandatory)</b>
<b>NTP Servers</b> field	Enter a maximum of four and minimum of one IPv4 addresses in the table.
<b>Domain Name Servers</b> field	Enter a maximum of three and minimum of one IPv4 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														
<b>Networks table</b>	<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> button to add new entries (networks) to the table.</li> <li>• Specify the following fields in the Edit Entry to Networks dialog:</li> </ul> <table border="1" data-bbox="922 695 1528 1661"> <thead> <tr> <th data-bbox="922 695 1224 743">Name</th> <th data-bbox="1224 695 1528 743">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="922 743 1224 800"><b>Segment</b> drop-down list</td> <td data-bbox="1224 743 1528 800">Selected by Default.</td> </tr> <tr> <td data-bbox="922 800 1224 1052"><b>Management Node IP</b> field</td> <td data-bbox="1224 800 1528 1052">Enter the IP address of the build node. This field is only available for the Mgmt/Provision segment and is Mandatory if Zenoss is selected as a part of Blueprint.</td> </tr> <tr> <td data-bbox="922 1052 1224 1188"><b>VLAN</b> field</td> <td data-bbox="1224 1052 1528 1188">Enter the <b>VLAN ID</b>. For Segment - Provider, the VLAN ID value is 'none'.</td> </tr> <tr> <td data-bbox="922 1188 1224 1276"><b>Subnet</b> field</td> <td data-bbox="1224 1188 1528 1276">Enter the IPv4 address for the subnet.</td> </tr> <tr> <td data-bbox="922 1276 1224 1365"><b>Gateway</b> field</td> <td data-bbox="1224 1276 1528 1365">Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td data-bbox="922 1365 1224 1661"><b>Pool</b> field</td> <td data-bbox="1224 1365 1528 1661">Enter the pool information in the required format, for example: 10.1.15-10.1.1.10,102.15-102.1.10  This field is available only for the Mgmt/Provision, Storage, and Tenant segments.</td> </tr> </tbody> </table> <p>Click <b>Save</b>.</p>	Name	Description	<b>Segment</b> drop-down list	Selected by Default.	<b>Management Node IP</b> field	Enter the IP address of the build node. This field is only available for the Mgmt/Provision segment and is Mandatory if Zenoss is selected as a part of Blueprint.	<b>VLAN</b> field	Enter the <b>VLAN ID</b> . For Segment - Provider, the VLAN ID value is 'none'.	<b>Subnet</b> field	Enter the IPv4 address for the subnet.	<b>Gateway</b> field	Enter the IPv4 address for the Gateway.	<b>Pool</b> field	Enter the pool information in the required format, for example: 10.1.15-10.1.1.10,102.15-102.1.10  This field is available only for the Mgmt/Provision, Storage, and Tenant segments.
Name	Description														
<b>Segment</b> drop-down list	Selected by Default.														
<b>Management Node IP</b> field	Enter the IP address of the build node. This field is only available for the Mgmt/Provision segment and is Mandatory if Zenoss is selected as a part of Blueprint.														
<b>VLAN</b> field	Enter the <b>VLAN ID</b> . For Segment - Provider, the VLAN ID value is 'none'.														
<b>Subnet</b> field	Enter the IPv4 address for the subnet.														
<b>Gateway</b> field	Enter the IPv4 address for the Gateway.														
<b>Pool</b> field	Enter the pool information in the required format, for example: 10.1.15-10.1.1.10,102.15-102.1.10  This field is available only for the Mgmt/Provision, Storage, and Tenant segments.														

5. On the **Servers and Roles** page of the Cisco VIM Suite wizard, a pre-populated table filled with Roles : Control, Compute and Block Storage (Only if CEPH Dedicated is selected in Blueprint Initial Setup is available. You can

clear the table and click **Add (+)** to add a new entry in the table, and complete the following fields: You can edit or delete existing entries in the **Server and Roles** table.

Name	Description																		
<b>Add Entry to Servers and Roles</b>	Click <b>Edit</b> or + to add a new server and role to the table.																		
	<table border="1"> <tr> <td><b>Server Name</b></td> <td>Enter a friendly name.</td> </tr> <tr> <td><b>Boot Drive drop-down list</b></td> <td>Choose LOCALHDD or SDCARD from the drop-down list.</td> </tr> <tr> <td><b>Rack ID field</b></td> <td>The rack ID for the server.</td> </tr> <tr> <td><b>VIC Slot field</b></td> <td>Enter a VIC Slot.</td> </tr> <tr> <td><b>CIMC IP field</b></td> <td>Enter a IP address.</td> </tr> <tr> <td><b>CIMC Username field</b></td> <td>Enter a Username.</td> </tr> <tr> <td><b>CIMC Password field</b></td> <td>Enter a Password for CIMC.</td> </tr> <tr> <td>Select the <b>Role</b> from the drop down list</td> <td>Choose Control or Compute or BlockStorage from the drop-down list.</td> </tr> <tr> <td><b>Management IP</b></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> </table>	<b>Server Name</b>	Enter a friendly name.	<b>Boot Drive drop-down list</b>	Choose LOCALHDD or SDCARD from the drop-down list.	<b>Rack ID field</b>	The rack ID for the server.	<b>VIC Slot field</b>	Enter a VIC Slot.	<b>CIMC IP field</b>	Enter a IP address.	<b>CIMC Username field</b>	Enter a Username.	<b>CIMC Password field</b>	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>Server Name</b>	Enter a friendly name.																	
	<b>Boot Drive drop-down list</b>	Choose LOCALHDD or SDCARD from the drop-down list.																	
	<b>Rack ID field</b>	The rack ID for the server.																	
	<b>VIC Slot field</b>	Enter a VIC Slot.																	
	<b>CIMC IP field</b>	Enter a IP address.																	
	<b>CIMC Username field</b>	Enter a Username.																	
	<b>CIMC Password field</b>	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.																		
If <b>Tor</b> checkbox is selected, these fields will be displayed.	<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 input.</li> <li>• Enter the friendly name.</li> </ul>																		
If Intel NIC support is checked in server and roles with ToR field.	<table border="1"> <tr> <td>Add SRIOV tor info connected to switch.</td> <td>Enter the switch-name.</td> </tr> </table>	Add SRIOV tor info connected to switch.	Enter the switch-name.																
Add SRIOV tor info connected to switch.	Enter the switch-name.																		
If Intel NIC is checked with an entry of integer value then Add DP tor info connected to switch filed.	<table border="1"> <tr> <td> <ul style="list-style-type: none"> <li>• <b>Port Channel</b> field.</li> <li>• <b>Switch-Name</b> field</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>• Enter the Port channel.</li> <li>• Enter the string.</li> </ul> </td> </tr> </table>	<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>																
<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>																		
Click <b>Save or Add</b> button.	If all mandatory fields are filled click <b>Save or Add</b> button information for Servers and Roles																		

- 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.

Name	Description	
<b>ToR Switch Information</b> mandatory table if you want to enter ToR information.	Click (+) to add information for ToR Switch.	
	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).	
Click <b>Save</b> .		

- Click **OpenStack Setup** Tab to advance to the **OpenStack Setup** page.
- 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.

Name	Description																	
<b>Keystone</b>	Mandatory field are pre-populated.																	
	<table border="1"> <tr> <td data-bbox="805 352 1143 386"><b>Admin Username</b></td> <td data-bbox="1149 352 1477 386">admin.</td> </tr> <tr> <td data-bbox="805 403 1143 436"><b>Admin Tenant Name</b></td> <td data-bbox="1149 403 1477 436">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.																	
<table border="1"> <tr> <td data-bbox="805 487 1143 529"><b>Domain Name</b>field</td> <td data-bbox="1149 487 1477 529">Enter name for Domain name.</td> </tr> <tr> <td data-bbox="805 546 1143 588"><b>Object class for User</b>field</td> <td data-bbox="1149 546 1477 588">Enter a string as input.</td> </tr> <tr> <td data-bbox="805 604 1143 646"><b>Object class for Group</b></td> <td data-bbox="1149 604 1477 646">Enter a string.</td> </tr> <tr> <td data-bbox="805 663 1143 726"><b>Domain Name tree for Groups</b></td> <td data-bbox="1149 663 1477 726">Enter a string.</td> </tr> <tr> <td data-bbox="805 743 1143 806"><b>Domain Name tree for User</b> field</td> <td data-bbox="1149 743 1477 806">Enter a string.</td> </tr> <tr> <td data-bbox="805 823 1143 865"><b>Suffix for domain name</b> field</td> <td data-bbox="1149 823 1477 865">Enter a string.</td> </tr> <tr> <td data-bbox="805 882 1143 945"><b>URL</b> field</td> <td data-bbox="1149 882 1477 945">Enter a URL with ending port number.</td> </tr> <tr> <td data-bbox="805 961 1143 1024"><b>Domain Name for Bind User</b> field</td> <td data-bbox="1149 961 1477 1024">Enter a string.</td> </tr> <tr> <td data-bbox="805 1041 1143 1104"><b>Password</b> field</td> <td data-bbox="1149 1041 1477 1104">Enter Password as string format.</td> </tr> </table>	<b>Domain Name</b> field	Enter name for Domain name.	<b>Object class for User</b> field	Enter a string as input.	<b>Object class for Group</b>	Enter a string.	<b>Domain Name tree for Groups</b>	Enter a string.	<b>Domain Name tree for User</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>Domain Name</b> field	Enter name for Domain name.																	
<b>Object class for User</b> field	Enter a string as input.																	
<b>Object class for Group</b>	Enter a string.																	
<b>Domain Name tree for Groups</b>	Enter a string.																	
<b>Domain Name tree for User</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.																	



Name	Description										
<b>Neutron</b>	<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="839 422 1528 1182"> <tr> <td data-bbox="839 422 1182 541"><b>Tenant Network Type</b></td> <td data-bbox="1182 422 1528 541">Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="839 541 1182 661"><b>Mechanism Drivers</b></td> <td data-bbox="1182 541 1528 661">Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="839 661 1182 1037"><b>NFV Hosts</b></td> <td data-bbox="1182 661 1528 1037">           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="839 1037 1182 1129"><b>Tenant VLAN Ranges</b></td> <td data-bbox="1182 1037 1528 1129">Only with VTS/VLAN and VPP/VLAN.</td> </tr> <tr> <td data-bbox="839 1129 1182 1182"><b>Enable Jumbo Frames</b></td> <td data-bbox="1182 1129 1528 1182">By default Check Box is false.</td> </tr> </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/VLAN and VPP/VLAN.	<b>Enable Jumbo Frames</b>	By default Check Box is false.
<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/VLAN and VPP/VLAN.										
<b>Enable Jumbo Frames</b>	By default Check Box is false.										
<b>CEPH</b>	<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>: From drop down selection you can choose <b>Ceph or local</b>.</li> </ul>										
<b>GLANCE</b>	<p>By default Populated for <b>CEPH Dedicated</b> with <b>Store Backend</b> value as <b>CEPH</b>.</p>										
<b>CINDER</b>	<p>By default Populated for <b>CEPH Dedicated</b> with <b>Volume Driver</b> value as <b>CEPH</b>.</p>										

Name	Description
VMTP optional section, this will be visible only if 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"> <li>• Provider Network.</li> <li>• External Network.</li> </ul> <p>For the Provider Network complete the following:</p> <table border="1" data-bbox="841 495 1528 1083"> <tr> <td data-bbox="841 495 1182 583"><b>Network Name</b> field</td> <td data-bbox="1182 495 1528 583">Enter the name for the external network.</td> </tr> <tr> <td data-bbox="841 583 1182 672"><b>IP Start</b> field</td> <td data-bbox="1182 583 1528 672">Enter the starting floating IPv4 address.</td> </tr> <tr> <td data-bbox="841 672 1182 760"><b>IP End</b> field</td> <td data-bbox="1182 672 1528 760">Enter the ending floating IPv4 address</td> </tr> <tr> <td data-bbox="841 760 1182 848"><b>Gateway</b> field</td> <td data-bbox="1182 760 1528 848">Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td data-bbox="841 848 1182 936"><b>DNS Server</b> field</td> <td data-bbox="1182 848 1528 936">Enter the DNS server IPv4 address.</td> </tr> <tr> <td data-bbox="841 936 1182 1024"><b>Segmentation ID</b> field</td> <td data-bbox="1182 936 1528 1024">Enter the segmentation ID.</td> </tr> <tr> <td data-bbox="841 1024 1182 1083"><b>Subnet</b></td> <td data-bbox="1182 1024 1528 1083">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="841 1150 1528 1684"> <tr> <td data-bbox="841 1150 1182 1239"><b>Network Name</b> field</td> <td data-bbox="1182 1150 1528 1239">Enter the name for the external network.</td> </tr> <tr> <td data-bbox="841 1239 1182 1327"><b>Network IP Start</b> field</td> <td data-bbox="1182 1239 1528 1327">Enter the starting floating IPv4 address.</td> </tr> <tr> <td data-bbox="841 1327 1182 1415"><b>Network IP End</b> field</td> <td data-bbox="1182 1327 1528 1415">Enter the ending floating IPv4 address.</td> </tr> <tr> <td data-bbox="841 1415 1182 1503"><b>Network Gateway</b> field</td> <td data-bbox="1182 1415 1528 1503">Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td data-bbox="841 1503 1182 1591"><b>DNS Server</b> field</td> <td data-bbox="1182 1503 1528 1591">Enter the DNS server IPv4 address.</td> </tr> <tr> <td data-bbox="841 1591 1182 1684"><b>Subnet.</b></td> <td data-bbox="1182 1591 1528 1684">Enter the Subnet for External Network.</td> </tr> </table> <p>For <b>External Network</b> fill in the following details:</p> <table border="1" data-bbox="841 1751 1528 1839"> <tr> <td data-bbox="841 1751 1182 1839"><b>Network Name</b> field</td> <td data-bbox="1182 1751 1528 1839">Enter the name for the 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.	<b>Network Name</b> field	Enter the name for the external network.
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Name	Description													
	Network IP Start field	Enter the starting floating IPv4 address.												
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	Network Gateway field	Enter the IPv4 address for the Gateway.												
	DNS Server field	Enter the DNS server IPv4 address.												
	Subnet 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>													
<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>KeyStonev2</b>. If you select <b>Keystonev3</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="805 999 1489 1591"> <tbody> <tr> <td data-bbox="805 999 1143 1119"><b>Cluster End Point</b></td> <td data-bbox="1149 999 1489 1119">IP address of PAC (proxy-account-container) endpoint.</td> </tr> <tr> <td data-bbox="805 1119 1143 1201"><b>Admin User</b></td> <td data-bbox="1149 1119 1489 1201">Admin user for swift to authenticate in keystone.</td> </tr> <tr> <td data-bbox="805 1201 1143 1358"><b>Admin Tenant</b></td> <td data-bbox="1149 1201 1489 1358">The service tenant corresponding to the Account-Container used by Swiftstack.</td> </tr> <tr> <td data-bbox="805 1358 1143 1478"><b>Reseller Prefix</b></td> <td data-bbox="1149 1358 1489 1478">Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_</td> </tr> <tr> <td data-bbox="805 1478 1143 1539"><b>Admin Password</b></td> <td data-bbox="1149 1478 1489 1539">swiftstack_admin_password</td> </tr> <tr> <td data-bbox="805 1539 1143 1591"><b>Protocol</b></td> <td data-bbox="1149 1539 1489 1591">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.													
<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													

9. 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	Following are the options for Syslog Settings:	
	<b>Remote Host</b>	Enter Syslog IP Addr.
	<b>Protocol</b>	Drop-down selection for UDP and TCP is UDP by default.
	<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 false.</p> <p><b>If Tor Configured: (Optional).</b></p> <ul style="list-style-type: none"> <li>• tor_info: {po: &lt;int&gt;, switch_a_hostname: ethx/y, switch_b_hostname: ethx/y}</li> <li>• tor_info: {po: &lt;int&gt;, switch_c_hostname: 'etha/b,ethx/y'}</li> <li>• nfvsbench_vlan_info (when VTS option is chosen, and TORSWITCH Info is there; VLAN1:VLAN2; Correct format: start_vlan:end_vlan; with end_vlan " values"greater than start_vlan 1")</li> </ul>	

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

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

- In Blueprint Initial Setup.
- Click the **Browse** button in the blueprint initial setup.
- Select the YAML file you want to upload.
- Click **Select** button.
- Clicking on load button 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 **Offlinevalidation** 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** button 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 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 2.0 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.
- 

## 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

## 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 2.0 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.

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