



Installing Cisco VIM through Cisco VIM Insight

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.

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 11](#)
- [Post Installation Features for Active Blueprint, page 47](#)

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:

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- Step 1** Login as UI Admin and navigate to **Manage Pod Admin(s)** page.
 - Step 2** Click **Add Pod Admin**.
 - Step 3** Enter the Email ID 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.
 - 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:
 - Server certificate is located on management node at /var/www/mercury/mercury-ca.crt.
 - Note** You need to download the file from the management node to your local machine in order to upload this certificate file.
 - 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 a web form titled "Register Management Node" from Cisco VIM Insight. The form is split into two main sections. The top section, "Register Management Node", contains four input fields: "Enter End Point IP", "Enter Management Node Name" (with the text "admin" entered), "Enter Rest Server Password", and "Description". The bottom section, "Management Node Administrator Details", contains two input fields: "Enter Email ID" and "Enter User Name". At the bottom of the form, there are two buttons: a green "Register" button and a grey "Cancel" button.

- 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. 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 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

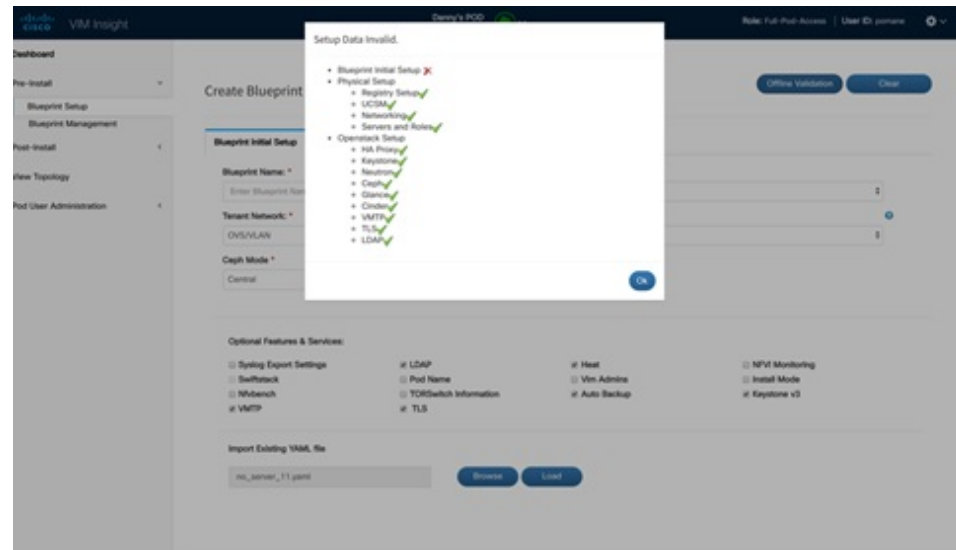
This section has two menus:

- 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.

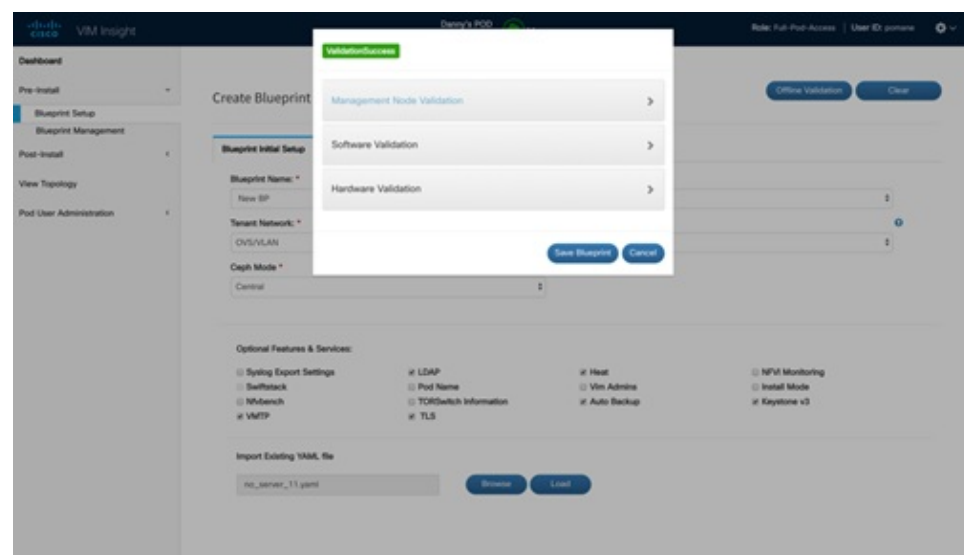
Offline Validation will only take place if all the fields marked in Blueprint are filled and there are no client side validations remaining. Even if they are the Offline Validation, pop up will show which field is missing.

Figure 3: Blueprint Creation



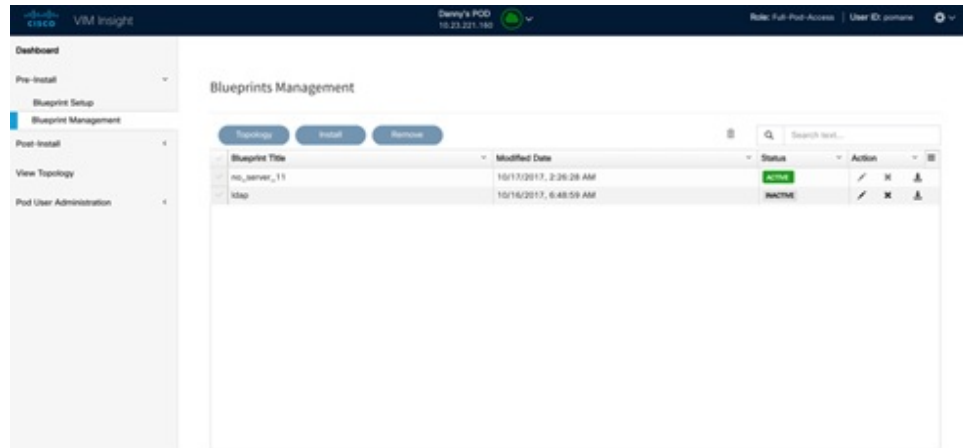
After filling all the details offline validation will take place, if successful, **Save Blueprint** option will be enabled, else user will not be allowed to save the Blueprint. Click **Save blueprint** to be redirected to Blueprint Management.

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.

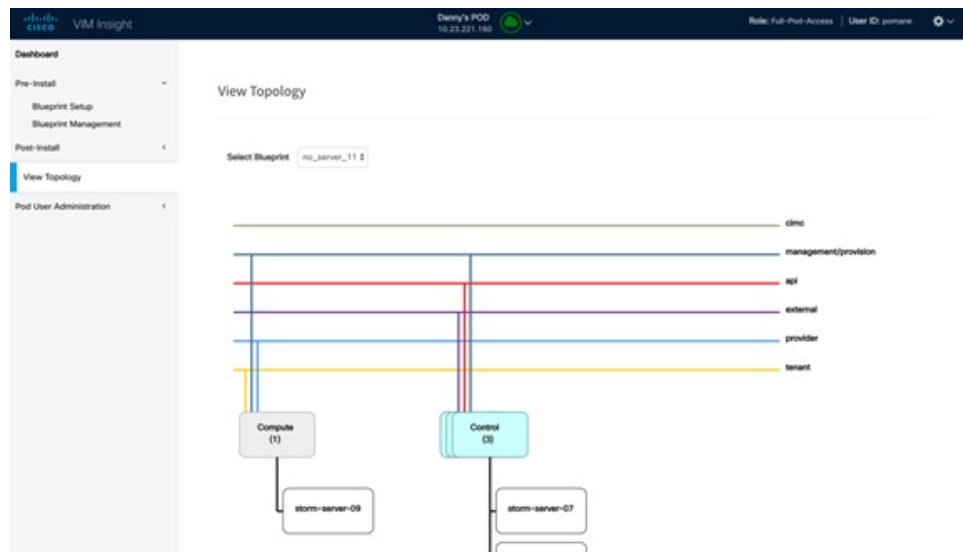
3 Post-install.

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 6: Topology



5 Pod User Administration

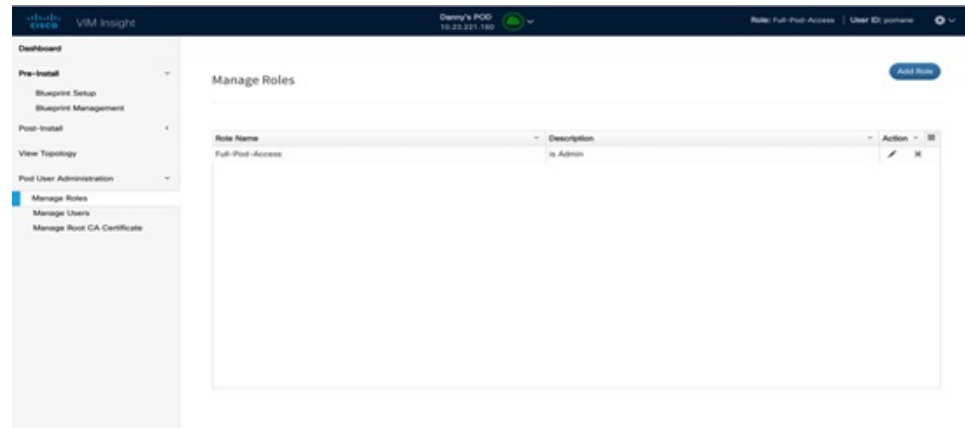
Pod User Administration menu is available only to admin of the Management Node. This admin can be default admin of the pod or users assigned with Pod Admin role by the default admin. It has two additional sub-panel options:

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 7: Manage roles

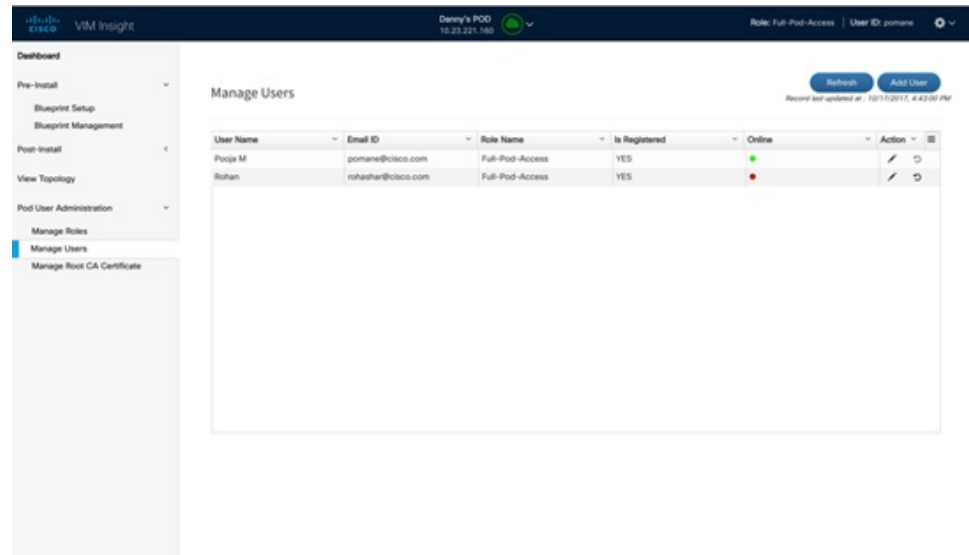


b Manage Users:

- 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 8: Manage users

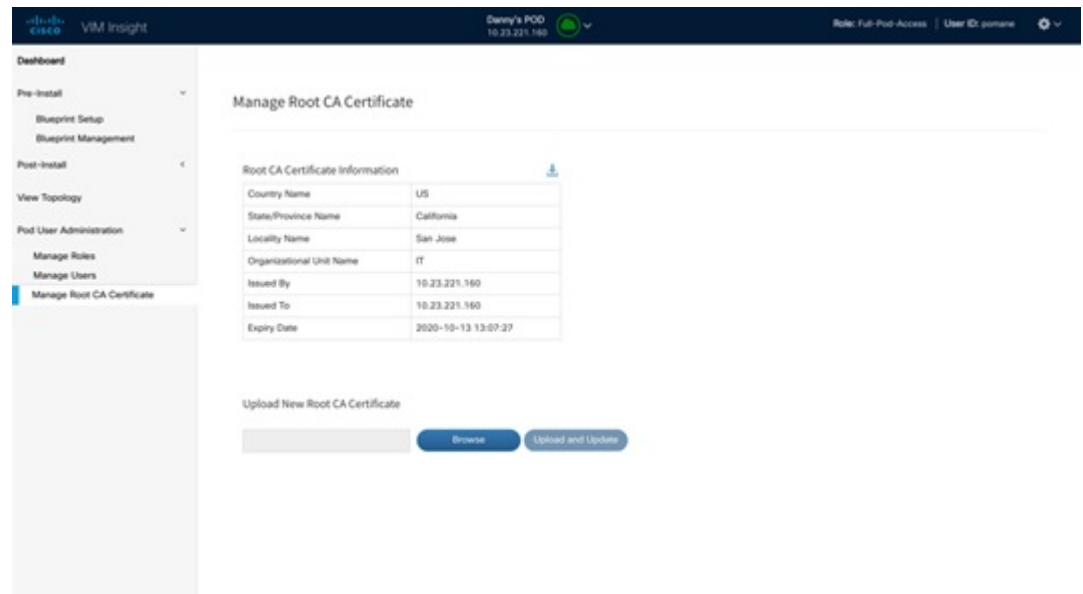


c Manage Root CA Certificate:

- a Edit existing Root CA Certificate of the Management Node (Location: /var/www/mercury/mercury-ca.crt)
- b You can also download existing certificate from Insight.
- c If invalid Certificate is uploaded through Insight then previous working state will be recovered after clicking the **Upload** button.

- d If Certificate is valid Management Node HEALTH check will be executed.

Figure 9: Manage Root CA Certificate



VIM Insight also have some extra features in the header:

- 1 User ID and Role - Indicates the User ID and Role of the current user.
- 2 Management Node Context Switching - User can switch between two or more nodes. (Right in the middle for the header).
- 3 Management Node Name and IP Address: Indicates the name and IP address of the management node.
- 4 User Profile - User can change the Password or Logout or change log level between Info and Debug.

Context Switching within Insight

One of the key features in VIM Insight, is that if you have permission for the node you can switch between two or more pods. You can be a Admin for one or more pods, and a normal user for some other pod, simultaneously. Ability to access multiple pods, provides the user to maintain context and yet scale from a pod management.

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

- 1 **Context Switching Icon:** Context Switching Icon is located at the middle of the UI header. Click **Management Node Context Switching** to access all available pods.
- 2 **Switch Between Management Nodes:** Switch Between Management Nodes is situated in the Dashboard. You can navigate to any pod by a single click. If the REST password provided during registration of the Management node does not match the current REST Password for that particular node, the cloud icon at the middle of the UI header will turn red instead of green. 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.

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
Blueprint Name field	Enter blueprint configuration name.
Platform Type drop-down list	B-Series (By default) choose B series for this section. C-Series
Tenant Network drop-down list	Choose one of the following tenant network types: <ul style="list-style-type: none"> • Linuxbridge/VXLAN • OVS/VLAN
Ceph Mode drop-down list	Choose one of the following Ceph types: <ul style="list-style-type: none"> • Dedicated • Central (By Default) - Not supported in Production
Pod Type drop-down list	Fullon (By default)
Optional Features and Services Checkbox	Swiftstack, LDAP, Syslog Export Settings, Install Mode, TorSwitch Information, TLS, Nfvmon, Pod Name, VMTP, Nfvbench, Auto Backup, Heat, Keystone v3 If any one is selected, the corresponding section is visible in various Blueprint sections. By default all features are disabled except Auto Backup.
Import Existing YAML file	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
Registry User Name text field	User-Name for Registry (Mandatory).
Registry Password text field	Password for Registry (Mandatory).
Registry Email text field	Email ID for Registry (Mandatory).

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

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

Name	Description
User name disabled field	By default value is Admin.
Password text field	Enter Password for UCSM Common (Mandatory).
UCSM IP text field	Enter IP Address for UCSM Common(Mandatory).
Resource Prefix text field	Enter the resource prefix(Mandatory).
QOS Policy Type drop-down	Choose one of the following types: <ul style="list-style-type: none"> • NFVI (Default) • Media
Enable Prov FI PIN optional checkbox	Default is false.
Max VF Count text field	<1-54> Maximum VF count 54, default is 20. If VF performance is enabled recommend keeping MAX_VF_COUNT to 20 else may fail on some VICs like 1240
Enable VF Performance optional checkbox	Default is false. Set to true to apply adaptor policy at VF level.
MRAID-CARD optional checkbox	Enables JBOD mode to be set on disks. Applicable only if you have RAID controller configured on Storage C240 Rack servers.
Enable UCSM Plugin optional checkbox	Visible when Tenant Network type is OVS/VLAN
Enable QoS Policy optional checkbox	Visible only when UCSM Plugin is enabled. If UCSM Plugin is disabled then this option is set to False.

Name	Description
Enable QOS for Port Profile optional checkbox	Visible only when UCSM Plugin is enabled.
SRIOV Multi VLAN Trunk optional grid	Visible when UCSM Plugin is enabled. Enter the values for network and vlans ranges. Grid can handle all CRUD operations like Add, Delete, Edit and, Multiple Delete.

- 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 Delete All or click Edit icon for each segment and fill in the details.</p> <p>You can add, edit, or delete network information in the table:</p> <ul style="list-style-type: none"> • Click Edit to enter new entries (networks) to the table. • Specify the following fields in the Edit Entry to Networks dialog box. <table border="1" data-bbox="922 726 1511 1875"> <thead> <tr> <th data-bbox="922 726 1219 779">Name</th> <th data-bbox="1219 726 1511 779">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="922 779 1219 1430"> Segment drop-down list </td> <td data-bbox="1219 779 1511 1430"> You can select any of one segment from dropdown list. <ul style="list-style-type: none"> • API • Management/Provision • Tenant • CIMC • Storage • External • Provider (optional) <p>Note Some segments do not need some of the values listed in the preceding points.</p> </td> </tr> <tr> <td data-bbox="922 1430 1219 1602"> VLAN field </td> <td data-bbox="1219 1430 1511 1602"> Enter the VLAN ID. For Segment - Provider, the VLAN ID value is always "none". </td> </tr> <tr> <td data-bbox="922 1602 1219 1698"> Subnet field </td> <td data-bbox="1219 1602 1511 1698"> Enter the IPv4 address for the subnet. </td> </tr> <tr> <td data-bbox="922 1698 1219 1875"> IPv6 Subnetfield </td> <td data-bbox="1219 1698 1511 1875"> Enter IPv6 address. This field will be available only for Management provision and API. </td> </tr> </tbody> </table>	Name	Description	Segment drop-down list	You can select any of one segment from dropdown list. <ul style="list-style-type: none"> • API • Management/Provision • Tenant • CIMC • Storage • External • Provider (optional) <p>Note Some segments do not need some of the values listed in the preceding points.</p>	VLAN field	Enter the VLAN ID. For Segment - Provider, the VLAN ID value is always "none".	Subnet field	Enter the IPv4 address for the subnet.	IPv6 Subnet field	Enter IPv6 address. This field will be available only for Management provision and API.
Name	Description										
Segment drop-down list	You can select any of one segment from dropdown list. <ul style="list-style-type: none"> • API • Management/Provision • Tenant • CIMC • Storage • External • Provider (optional) <p>Note Some segments do not need some of the values listed in the preceding points.</p>										
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Name	Description			
	<table border="1"> <thead> <tr> <th data-bbox="889 336 1175 378">Name</th> <th data-bbox="1187 336 1479 378">Description</th> </tr> </thead> </table>	Name	Description	
	Name	Description		
	Gateway field	Enter the IPv4 address for the Gateway.		
	IPv6 gateway field	Enter ipv6 gateway. This field will only available only for Management provision and API network		
	Pool field	Enter the pool information in the required format, for example: 10.30.1.1 or 10.30.1.1 to 10.30.1.12		
IPv6 pool field	Enter the pool information in the required format, for example: 10.1.1.5-10.1.1.10,10.2.1.5-10.2.1.10 This field is only available for the Mgmt/Provision.			
Click Save .				

- 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
Server User Name	Enter the username of the server.
Disable Hyperthreading	Default value is false. You can set it as true or false.

Name	Description																
Cobbler	Enter the Cobbler details in the following fields:																
	<table border="1"> <thead> <tr> <th data-bbox="922 380 1219 422">Name</th> <th data-bbox="1219 380 1516 422">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="922 422 1219 695">Cobbler Timeout field</td> <td data-bbox="1219 422 1516 695">The default value is 45 min. This is an optional parameter. Timeout is displayed in minutes, and its value ranges from 30 to 120.</td> </tr> <tr> <td data-bbox="922 695 1219 789">Block Storage Kickstart field</td> <td data-bbox="1219 695 1516 789">Kickstart file for Storage Node.</td> </tr> <tr> <td data-bbox="922 789 1219 1010">Admin Password Hash field</td> <td data-bbox="1219 789 1516 1010">Enter the Admin Password. Password should be Alphanumeric. Password should contain minimum 8 characters and maximum of 32 characters.</td> </tr> <tr> <td data-bbox="922 1010 1219 1142">Cobbler Username field</td> <td data-bbox="1219 1010 1516 1142">Enter the cobbler username to access the cobbler server.</td> </tr> <tr> <td data-bbox="922 1142 1219 1236">Control Kickstart field</td> <td data-bbox="1219 1142 1516 1236">Kickstart file for Control Node.</td> </tr> <tr> <td data-bbox="922 1236 1219 1331">Compute Kickstart field</td> <td data-bbox="1219 1236 1516 1331">Kickstart file for Compute Node.</td> </tr> <tr> <td data-bbox="922 1331 1219 1430">Cobbler Admin Username field</td> <td data-bbox="1219 1331 1516 1430">Enter the admin username of the Cobbler.</td> </tr> </tbody> </table>	Name	Description	Cobbler Timeout field	The default value is 45 min. This is an optional parameter. Timeout is displayed in minutes, and its value ranges from 30 to 120.	Block Storage Kickstart field	Kickstart file for Storage Node.	Admin Password Hash field	Enter the Admin Password. Password should be Alphanumeric. Password should contain minimum 8 characters and maximum of 32 characters.	Cobbler Username field	Enter the cobbler username to access the cobbler server.	Control Kickstart field	Kickstart file for Control Node.	Compute Kickstart field	Kickstart file for Compute Node.	Cobbler Admin Username field	Enter the admin username of the Cobbler.
	Name	Description															
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	Control Kickstart field	Kickstart file for Control Node.															
Compute Kickstart field	Kickstart file for Compute Node.																
Cobbler Admin Username field	Enter the admin username of the Cobbler.																

Name	Description																		
Add Entry to Servers and Roles	<p>Click Edit or + to add a new server and role to the table.</p> <table border="1" data-bbox="886 373 1479 1430"> <tbody> <tr> <td data-bbox="886 373 1182 436">Server Name.</td> <td data-bbox="1182 373 1479 436">Enter a server name</td> </tr> <tr> <td data-bbox="886 436 1182 533">Server Type drop-down list</td> <td data-bbox="1182 436 1479 533">Choose Blade or Rack from the drop-down list.</td> </tr> <tr> <td data-bbox="886 533 1182 630">Rack ID field</td> <td data-bbox="1182 533 1479 630">The Rack ID for the server.</td> </tr> <tr> <td data-bbox="886 630 1182 693">Chassis ID field</td> <td data-bbox="1182 630 1479 693">Enter a Chassis ID.</td> </tr> <tr> <td data-bbox="886 693 1182 825">If Rack is chosen, the Rack Unit ID field is displayed.</td> <td data-bbox="1182 693 1479 825">Enter a Rack Unit ID.</td> </tr> <tr> <td data-bbox="886 825 1182 957">If Blade is chosen, the Blade ID field is displayed.</td> <td data-bbox="1182 825 1479 957">Enter a Blade ID.</td> </tr> <tr> <td data-bbox="886 957 1182 1146">Select the Role from the drop down list.</td> <td data-bbox="1182 957 1479 1146">If Server type is Blade then select Control and Compute. If server is Rack then select Block Storage.</td> </tr> <tr> <td data-bbox="886 1146 1182 1335">Management IP.</td> <td data-bbox="1182 1146 1479 1335">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="886 1335 1182 1430">Management IPv6</td> <td data-bbox="1182 1335 1479 1430">Enter the management IPv6 Address.</td> </tr> </tbody> </table>	Server Name.	Enter a server name	Server Type drop-down list	Choose Blade or Rack from the drop-down list.	Rack ID field	The Rack ID for the server.	Chassis ID field	Enter a Chassis ID.	If Rack is chosen, the Rack Unit ID field is displayed.	Enter a Rack Unit ID.	If Blade is chosen, the Blade ID field is displayed.	Enter a Blade ID.	Select the Role from the drop down list.	If Server type is Blade then select Control and Compute . If server is Rack then select Block Storage .	Management IP.	It is an optional field but if provided for one server then it is mandatory to provide details for other Servers as well.	Management IPv6	Enter the management IPv6 Address.
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Management IP.	It is an optional field but if provided for one server then it is mandatory to provide details for other Servers as well.																		
Management IPv6	Enter the management IPv6 Address.																		
Save or Add button.	Click Save or Add button, to give information for Servers and Roles; provided, all mandatory fields are filled.																		

- 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.

Name	Description	
ToR Switch Information mandatory table to enter Tor information.	Click (+) to add information for Tor Switch.	
	Name	Description
	Host Name	ToR switch hostname.
	Username	ToR switch username.
	Password	Tor switch password.
	SSH IP	ToR switch SSH IP Address.
	SSN Num	ToR switch ssn num.
	VPC Peer Keepalive	Peer Management IP. You do not define if there is no peer.
	VPC Domain	Do not define if peer is absent.
	VPC Peer Port Info	Interface for vpc peer ports.
	BR Management Port Info	Management interface of management node.
BR Management PO Info	Port channel number for management interface of management node.	
On clicking save button, Add ToR Info Connected to Fabric field will be visible.	Port Channel field.	Enter the Port Channel input.
	Switch Name field.	Enter the port number.

- 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										
HA Proxy	<p data-bbox="847 325 1336 359">Mandatory Field. Fill in the following details:</p> <table border="1" data-bbox="847 373 1482 823"> <tr> <td data-bbox="847 373 1166 470">External VIP Address</td> <td data-bbox="1166 373 1482 470">Enter IP address of External VIP.</td> </tr> <tr> <td data-bbox="847 470 1166 567">External VIP Address IPv6</td> <td data-bbox="1166 470 1482 567">Enter IPv6 address of External VIP.</td> </tr> <tr> <td data-bbox="847 567 1166 632">Virtual Router ID</td> <td data-bbox="1166 567 1482 632">Enter the Router ID for HA.</td> </tr> <tr> <td data-bbox="847 632 1166 728">Internal VIP Address IPv6</td> <td data-bbox="1166 632 1482 728">Enter IPv6 address of Internal IP.</td> </tr> <tr> <td data-bbox="847 728 1166 823">Internal VIP Address</td> <td data-bbox="1166 728 1482 823">Enter IP address of Internal VIP.</td> </tr> </table>	External VIP Address	Enter IP address of External VIP.	External VIP Address IPv6	Enter IPv6 address of External VIP.	Virtual Router ID	Enter the Router ID for HA.	Internal VIP Address IPv6	Enter IPv6 address of Internal IP.	Internal VIP Address	Enter IP address of Internal VIP.
External VIP Address	Enter IP address of External VIP.										
External VIP Address IPv6	Enter IPv6 address of External VIP.										
Virtual Router ID	Enter the Router ID for HA.										
Internal VIP Address IPv6	Enter IPv6 address of Internal IP.										
Internal VIP Address	Enter IP address of Internal VIP.										
Keystone	<p data-bbox="847 900 1482 961">Mandatory field and prepopulated. This option would always be true.</p> <table border="1" data-bbox="847 976 1482 1081"> <tr> <td data-bbox="847 976 1166 1031">Admin Username</td> <td data-bbox="1166 976 1482 1031">admin</td> </tr> <tr> <td data-bbox="847 1031 1166 1081">Admin Tenant Name</td> <td data-bbox="1166 1031 1482 1081">admin</td> </tr> </table>	Admin Username	admin	Admin Tenant Name	admin						
Admin Username	admin										
Admin Tenant Name	admin										

Name	Description																												
<p>LDAP (Only if Keystonev3 is enabled)</p> <p>Note 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="885 436 1518 1591"> <tbody> <tr> <td data-bbox="885 436 1198 531">Domain Name field</td> <td data-bbox="1203 436 1518 531">Enter name for Domain name.</td> </tr> <tr> <td data-bbox="885 537 1198 594">Object Class for Users field</td> <td data-bbox="1203 537 1518 594">Enter a string as input.</td> </tr> <tr> <td data-bbox="885 600 1198 657">Object Class for Groups</td> <td data-bbox="1203 600 1518 657">Enter a string.</td> </tr> <tr> <td data-bbox="885 663 1198 758">Domain Name Tree for Users</td> <td data-bbox="1203 663 1518 758">Enter a string.</td> </tr> <tr> <td data-bbox="885 764 1198 858">Domain Name Tree for Groups field</td> <td data-bbox="1203 764 1518 858">Enter a string.</td> </tr> <tr> <td data-bbox="885 865 1198 959">Suffix for Domain Name field</td> <td data-bbox="1203 865 1518 959">Enter a string.</td> </tr> <tr> <td data-bbox="885 966 1198 1060">URL field</td> <td data-bbox="1203 966 1518 1060">Enter a URL with ending port number.</td> </tr> <tr> <td data-bbox="885 1066 1198 1161">Domain Name of Bind User field</td> <td data-bbox="1203 1066 1518 1161">Enter a string.</td> </tr> <tr> <td data-bbox="885 1167 1198 1241">Password field</td> <td data-bbox="1203 1167 1518 1241">Enter Password as string format.</td> </tr> <tr> <td data-bbox="885 1247 1198 1304">User Filter field</td> <td data-bbox="1203 1247 1518 1304">Enter filter name as string.</td> </tr> <tr> <td data-bbox="885 1310 1198 1367">User ID Attribute field</td> <td data-bbox="1203 1310 1518 1367">Enter a string.</td> </tr> <tr> <td data-bbox="885 1373 1198 1430">User Name Attribute field</td> <td data-bbox="1203 1373 1518 1430">Enter a string.</td> </tr> <tr> <td data-bbox="885 1436 1198 1493">User Mail Attribute field</td> <td data-bbox="1203 1436 1518 1493">Enter a string.</td> </tr> <tr> <td data-bbox="885 1499 1198 1593">Group Name Attribute field</td> <td data-bbox="1203 1499 1518 1593">Enter a string.</td> </tr> </tbody> </table>	Domain Name field	Enter name for Domain name.	Object Class for Users field	Enter a string as input.	Object Class for Groups	Enter a string.	Domain Name Tree for Users	Enter a string.	Domain Name Tree for Groups field	Enter a string.	Suffix for Domain Name field	Enter a string.	URL field	Enter a URL with ending port number.	Domain Name of Bind User field	Enter a string.	Password field	Enter Password as string format.	User Filter field	Enter filter name as string.	User ID Attribute field	Enter a string.	User Name Attribute field	Enter a string.	User Mail Attribute field	Enter a string.	Group Name Attribute field	Enter a string.
Domain Name field	Enter name for Domain name.																												
Object Class for Users field	Enter a string as input.																												
Object Class for Groups	Enter a string.																												
Domain Name Tree for Users	Enter a string.																												
Domain Name Tree for Groups field	Enter a string.																												
Suffix for Domain Name field	Enter a string.																												
URL field	Enter a URL with ending port number.																												
Domain Name of Bind User field	Enter a string.																												
Password field	Enter Password as string format.																												
User Filter field	Enter filter name as string.																												
User ID Attribute field	Enter a string.																												
User Name Attribute field	Enter a string.																												
User Mail Attribute field	Enter a string.																												
Group Name Attribute field	Enter a string.																												

Name	Description														
Neutron	<p>Neutron fields would change on the basis of Tenant Network Type Selection from Blueprint Initial Setup. Following are the options available for Neutron for OVS/VLAN:</p> <table border="1" data-bbox="847 436 1482 1581"> <tbody> <tr> <td data-bbox="847 436 1162 596">Tenant Network Type</td> <td data-bbox="1162 436 1482 596">Auto Filled based on the Tenant Network Type selected in the Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="847 596 1162 756">Mechanism Drivers</td> <td data-bbox="1162 596 1482 756">Auto Filled based on the Tenant Network Type selected in Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="847 756 1162 1199">NFV Hosts</td> <td data-bbox="1162 756 1482 1199"> Auto filled with the Compute you added in Server and Roles. If you select All in this section NFV_HOSTS: ALL will be added to the Blueprint or you can select one particular compute. For Eg: NFV_HOSTS: compute-server-1, compute-server-2. </td> </tr> <tr> <td data-bbox="847 1199 1162 1293">Tenant VLAN Ranges</td> <td data-bbox="1162 1199 1482 1293">List of ranges separated by comma of form start:end.</td> </tr> <tr> <td data-bbox="847 1293 1162 1388">Provider VLAN Ranges</td> <td data-bbox="1162 1293 1482 1388">List of ranges separated by comma of form start:end.</td> </tr> <tr> <td data-bbox="847 1388 1162 1518">VM High Page Size (available for NFV_HOSTS option)</td> <td data-bbox="1162 1388 1482 1518">2M or 1G</td> </tr> <tr> <td data-bbox="847 1518 1162 1581">Enable Jumbo Frames</td> <td data-bbox="1162 1518 1482 1581">Check Box</td> </tr> </tbody> </table> <p>For Tenant Network Type Linux Bridge everything will remain the same but Tenant VLAN Ranges will be removed.</p>	Tenant Network Type	Auto Filled based on the Tenant Network Type selected in the Blueprint Initial Setup page.	Mechanism Drivers	Auto Filled based on the Tenant Network Type selected in Blueprint Initial Setup page.	NFV Hosts	Auto filled with the Compute you added in Server and Roles. If you select All in this section NFV_HOSTS: ALL will be added to the Blueprint or you can select one particular compute. For Eg: NFV_HOSTS: compute-server-1, compute-server-2.	Tenant VLAN Ranges	List of ranges separated by comma of form start:end.	Provider VLAN Ranges	List of ranges separated by comma of form start:end.	VM High Page Size (available for NFV_HOSTS option)	2M or 1G	Enable Jumbo Frames	Check Box
Tenant Network Type	Auto Filled based on the Tenant Network Type selected in the Blueprint Initial Setup page.														
Mechanism Drivers	Auto Filled based on the Tenant Network Type selected in Blueprint Initial Setup page.														
NFV Hosts	Auto filled with the Compute you added in Server and Roles. If you select All in this section NFV_HOSTS: ALL will be added to the Blueprint or you can select one particular compute. For Eg: NFV_HOSTS: compute-server-1, compute-server-2.														
Tenant VLAN Ranges	List of ranges separated by comma of form start:end.														
Provider VLAN Ranges	List of ranges separated by comma of form start:end.														
VM High Page Size (available for NFV_HOSTS option)	2M or 1G														
Enable Jumbo Frames	Check Box														

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

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

Name	Description																										
	<p>Check one of the check boxes to specify a VMTP network:</p> <ul style="list-style-type: none"> • Provider Network • External Network <p>For the Provider Network complete the following:</p> <table border="1" data-bbox="886 537 1518 1178"> <tr> <td data-bbox="886 537 1203 632">Network Name field</td> <td data-bbox="1203 537 1518 632">Enter the name for the external network.</td> </tr> <tr> <td data-bbox="886 632 1203 726">IP Start field</td> <td data-bbox="1203 632 1518 726">Enter the starting floating IPv4 address.</td> </tr> <tr> <td data-bbox="886 726 1203 821">IP End field</td> <td data-bbox="1203 726 1518 821">Enter the ending floating IPv4 address.</td> </tr> <tr> <td data-bbox="886 821 1203 915">Gateway field</td> <td data-bbox="1203 821 1518 915">Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td data-bbox="886 915 1203 1010">DNS Server field</td> <td data-bbox="1203 915 1518 1010">Enter the DNS server IPv4 address.</td> </tr> <tr> <td data-bbox="886 1010 1203 1083">Segmentation ID field</td> <td data-bbox="1203 1010 1518 1083">Enter the segmentation ID.</td> </tr> <tr> <td data-bbox="886 1083 1203 1178">Subnet</td> <td data-bbox="1203 1083 1518 1178">Enter the Subnet for Provider Network.</td> </tr> </table> <p>For External Network fill in the following details:</p> <table border="1" data-bbox="886 1283 1518 1858"> <tr> <td data-bbox="886 1283 1203 1377">Network Name field</td> <td data-bbox="1203 1283 1518 1377">Enter the name for the external network.</td> </tr> <tr> <td data-bbox="886 1377 1203 1472">Network IP Start field</td> <td data-bbox="1203 1377 1518 1472">Enter the starting floating IPv4 address.</td> </tr> <tr> <td data-bbox="886 1472 1203 1566">Network IP End field</td> <td data-bbox="1203 1472 1518 1566">Enter the ending floating IPv4 address.</td> </tr> <tr> <td data-bbox="886 1566 1203 1661">Network Gateway field</td> <td data-bbox="1203 1566 1518 1661">Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td data-bbox="886 1661 1203 1755">DNS Server field</td> <td data-bbox="1203 1661 1518 1755">Enter the DNS server IPv4 address.</td> </tr> <tr> <td data-bbox="886 1755 1203 1858">Subnet</td> <td data-bbox="1203 1755 1518 1858">Enter the Subnet for External Network.</td> </tr> </table>	Network Name field	Enter the name for the external network.	IP Start field	Enter the starting floating IPv4 address.	IP End field	Enter the ending floating IPv4 address.	Gateway field	Enter the IPv4 address for the Gateway.	DNS Server field	Enter the DNS server IPv4 address.	Segmentation ID field	Enter the segmentation ID.	Subnet	Enter the Subnet for Provider Network.	Network Name field	Enter the name for the external network.	Network IP Start field	Enter the starting floating IPv4 address.	Network IP End field	Enter the ending floating IPv4 address.	Network Gateway field	Enter the IPv4 address for the Gateway.	DNS Server field	Enter the DNS server IPv4 address.	Subnet	Enter the Subnet for External Network.
Network Name field	Enter the name for the external network.																										
IP Start field	Enter the starting floating IPv4 address.																										
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DNS Server field	Enter the DNS server IPv4 address.																										
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Network IP End field	Enter the ending floating IPv4 address.																										
Network Gateway field	Enter the IPv4 address for the Gateway.																										
DNS Server field	Enter the DNS server IPv4 address.																										
Subnet	Enter the Subnet for External Network.																										

Name	Description												
<p>TLS This optional section will only be visible once TLS is selected from Blueprint Initial Setup Page.</p>	<p>TLS has two options:</p> <ul style="list-style-type: none"> • External LB VIP FQDN - -Text field. • External LB VIP TLS - True/False. By default this option is false. 												
<p>Under the OpenStack setup tab, Vim_admins tab will be visible only when Vim_admins is selected from the Optional Features & Services under the Blueprint Initial setup tab</p>	<p>Following are the field descriptions for VIM Admins:</p> <ul style="list-style-type: none"> • User Name - Text field. • Password Password field. Admin hash password should always start with \$6. 												
<p>SwiftStack optional section will be visible once SwiftStack is selected from Blueprint Initial Setup Page. SwiftStack is only supported with KeyStonev2 . If you select Keystonev3, swiftstack will not be available for configuration.</p>	<p>Following are the options that needs to be filled for SwiftStack:</p> <table border="1" data-bbox="846 911 1477 1507"> <tbody> <tr> <td data-bbox="846 911 1162 1024">Cluster End Point</td> <td data-bbox="1162 911 1477 1024">IP address of PAC (proxy-account-container) endpoint.</td> </tr> <tr> <td data-bbox="846 1024 1162 1108">Admin User</td> <td data-bbox="1162 1024 1477 1108">Admin user for swift to authenticate in keystone.</td> </tr> <tr> <td data-bbox="846 1108 1162 1255">Admin Tenant</td> <td data-bbox="1162 1108 1477 1255">The service tenant corresponding to the Account-Container used by Swiftstack.</td> </tr> <tr> <td data-bbox="846 1255 1162 1402">Reseller Prefix</td> <td data-bbox="1162 1255 1477 1402">Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_</td> </tr> <tr> <td data-bbox="846 1402 1162 1455">Admin Password</td> <td data-bbox="1162 1402 1477 1455">swiftstack_admin_password</td> </tr> <tr> <td data-bbox="846 1455 1162 1507">Protocol</td> <td data-bbox="1162 1455 1477 1507">http or https</td> </tr> </tbody> </table>	Cluster End Point	IP address of PAC (proxy-account-container) endpoint.	Admin User	Admin user for swift to authenticate in keystone.	Admin Tenant	The service tenant corresponding to the Account-Container used by Swiftstack.	Reseller Prefix	Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_	Admin Password	swiftstack_admin_password	Protocol	http or https
Cluster End Point	IP address of PAC (proxy-account-container) endpoint.												
Admin User	Admin user for swift to authenticate in keystone.												
Admin Tenant	The service tenant corresponding to the Account-Container used by Swiftstack.												
Reseller Prefix	Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_												
Admin Password	swiftstack_admin_password												
Protocol	http or https												

- 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" data-bbox="846 373 1516 793"> <tbody> <tr> <td data-bbox="846 373 1182 436">Remote Host</td> <td data-bbox="1182 373 1516 436">Enter Syslog IP address.</td> </tr> <tr> <td data-bbox="846 436 1182 499">Protocol</td> <td data-bbox="1182 436 1516 499">Only UDP is supported.</td> </tr> <tr> <td data-bbox="846 499 1182 562">Facility</td> <td data-bbox="1182 499 1516 562">Defaults to local5.</td> </tr> <tr> <td data-bbox="846 562 1182 625">Severity</td> <td data-bbox="1182 562 1516 625">Defaults to debug.</td> </tr> <tr> <td data-bbox="846 625 1182 688">Clients</td> <td data-bbox="1182 625 1516 688">Defaults to ELK.</td> </tr> <tr> <td data-bbox="846 688 1182 793">Port</td> <td data-bbox="1182 688 1516 793">Defaults to 514 but can be modified by the User.</td> </tr> </tbody> </table>	Remote Host	Enter Syslog IP address.	Protocol	Only UDP is supported.	Facility	Defaults to local5.	Severity	Defaults to debug.	Clients	Defaults to ELK.	Port	Defaults to 514 but can be modified by the User.
Remote Host	Enter Syslog IP address.												
Protocol	Only UDP is supported.												
Facility	Defaults to local5.												
Severity	Defaults to debug.												
Clients	Defaults to ELK.												
Port	Defaults to 514 but can be modified by the User.												
NFVBENCH	<p>NFVBENCH enable checkbox which by default is false.</p> <p>Add ToR information connected to switch:</p> <ul style="list-style-type: none"> • Select a TOR Switch and enter the Switch name. • Enter the port number. For example:eth1/5. VTEP VLANS (mandatory and needed only for VXLAN): Enter 2 different VLANs for VLAN1 and VLAN2 • NIC Ports: INT1 and INT2 optional input. Enter the 2 port numbers of the 4-port 10G Intel NIC at the management node used for NFVBench. 												

Step 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"> • B-Series (By default) • C-Series (Select C Series)

Name	Description
Tenant Network drop-down list	Choose one of the following tenant network types: <ul style="list-style-type: none"> • Linux Bridge/VXLAN • OVS/VLAN • VTS/VLAN • VPP/VLAN • ACI/VLAN <p>Note when VTS/VLAN or ACI/VLAN is selected then respective tabs are available on Blueprint setup.</p>
Pod Type drop-down list	Choose one of the following pod type : <ul style="list-style-type: none"> • Fullon(By Default) • Micro • UMHC <p>Note UMHC pod type is only supported for OVS/VLAN tenant type. Note Pod type micro is supported for OVS/VLAN, ACI/VLAN,VPP/VLAN.</p>
Ceph Mode drop-down list	Choose one of the following Ceph types: <ul style="list-style-type: none"> • Dedicated (By Default) • Central. Central is not supported in Production
Optional and Services Features 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 except Auto Backup.
Import Existing YAML file	If you have an existing C Series YAML file you can use this feature to upload the file. Insight will automatically fill in the fields and 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
Registry User Name text field	User-Name for Registry (Mandatory).
Registry Password text field	Password for Registry (Mandatory).
Registry Email text field	Email ID for Registry (Mandatory).

Once all 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
User name disabled field	By default value is Admin.
Password text field	Enter Password for UCSM Common (Mandatory).

- 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
Networks table	

Name	Description				
	<p>Network table is pre-populated with Segments. To add Networks you can either clear all the table with Delete all or click edit icon for each segment and fill in the details.</p> <p>You can add, edit, or delete network information in the table.</p> <ul style="list-style-type: none"> • Click Edit button to add new entries (networks) to the table. • Specify the following fields in the Edit Entry to Networks dialog: <table border="1" data-bbox="922 726 1518 1822"> <thead> <tr> <th data-bbox="928 732 1222 781">Name</th> <th data-bbox="1222 732 1511 781">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="928 781 1222 1816"> Segment drop-down list </td> <td data-bbox="1222 781 1511 1816"> <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"> • API • Management/provision • Tenant • Storage • External • Provider • ACIINFRA <p>Note Aciinfra segment is available only when ACI/VLAN tenant type is selected) Depending upon the segment some of the entries below are not needed. Please refer to the example file in openstack-configs dir for details.</p> </td> </tr> </tbody> </table>	Name	Description	Segment 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"> • API • Management/provision • Tenant • Storage • External • Provider • ACIINFRA <p>Note Aciinfra segment is available only when ACI/VLAN tenant type is selected) Depending upon the segment some of the entries below are not needed. Please refer to the example file in openstack-configs dir for details.</p>
Name	Description				
Segment 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"> • API • Management/provision • Tenant • Storage • External • Provider • ACIINFRA <p>Note Aciinfra segment is available only when ACI/VLAN tenant type is selected) Depending upon the segment some of the entries below are not needed. Please refer to the example file in openstack-configs dir for details.</p>				

Name	Description	
	VLAN field	Enter the VLAN ID . For Segment - Provider, the VLAN ID value is 'none'.
	Subnet field	Enter the IPv4 address for the subnet.
	IPv6 Subnet field	Enter Ipv6 Address. This field will be available only for Management provision and API
	Gateway field	Enter the IPv4 address for the Gateway.
	Gateway IPv6 field	Enter the IPv6 address for the gateway. This will support for API and management provision.
	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 only for the Mgmt/Provision, Storage, and Tenant segments.
	IPv6 Pool field	Enter the pool information in the required format. For example: 10.1.15-10.1.1.10,102.15-102.1.10
Click Save .		

- 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																
Server User Name	Enter the username of the Server.																
Disable Hyperthreading	Default value is false. You can set it as true or false.																
Cobbler	<p data-bbox="889 457 1511 489">Enter the Cobbler details in the following fields:</p> <table border="1" data-bbox="889 499 1511 1465"> <thead> <tr> <th data-bbox="889 499 1203 548">Name</th> <th data-bbox="1203 499 1511 548">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="889 548 1203 758">Cobbler Timeout field</td> <td data-bbox="1203 548 1511 758">The default value is 45 min. This is an optional parameter. Timeout is displayed in minutes, and its value ranges from 30 to 120.</td> </tr> <tr> <td data-bbox="889 758 1203 856">Block Storage Kickstart field</td> <td data-bbox="1203 758 1511 856">Kickstart file for Storage Node.</td> </tr> <tr> <td data-bbox="889 856 1203 1077">Admin Password Hash field</td> <td data-bbox="1203 856 1511 1077">Enter the Admin Password. Password should be Alphanumeric. Password should contain minimum 8 characters and maximum of 32 characters.</td> </tr> <tr> <td data-bbox="889 1077 1203 1171">Cobbler Username field</td> <td data-bbox="1203 1077 1511 1171">Enter the cobbler username to access the cobbler server.</td> </tr> <tr> <td data-bbox="889 1171 1203 1270">Control Kickstart field</td> <td data-bbox="1203 1171 1511 1270">Kickstart file for Control Node.</td> </tr> <tr> <td data-bbox="889 1270 1203 1365">Compute Kickstart field</td> <td data-bbox="1203 1270 1511 1365">Kickstart file for Compute Node.</td> </tr> <tr> <td data-bbox="889 1365 1203 1465">Cobbler Admin Username field</td> <td data-bbox="1203 1365 1511 1465">Enter the admin username of the Cobbler.</td> </tr> </tbody> </table>	Name	Description	Cobbler Timeout field	The default value is 45 min. This is an optional parameter. Timeout is displayed in minutes, and its value ranges from 30 to 120.	Block Storage Kickstart field	Kickstart file for Storage Node.	Admin Password Hash field	Enter the Admin Password. Password should be Alphanumeric. Password should contain minimum 8 characters and maximum of 32 characters.	Cobbler Username field	Enter the cobbler username to access the cobbler server.	Control Kickstart field	Kickstart file for Control Node.	Compute Kickstart field	Kickstart file for Compute Node.	Cobbler Admin Username field	Enter the admin username of the Cobbler.
Name	Description																
Cobbler Timeout field	The default value is 45 min. This is an optional parameter. Timeout is displayed in minutes, and its value ranges from 30 to 120.																
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Cobbler Admin Username field	Enter the admin username of the Cobbler.																

Name	Description																			
<p>Add Entry to Servers and Roles</p> <p>Note when Pod type micro is selected then all the three servers will be associated with control, compute and block storage role. For Example: Roles</p> <ul style="list-style-type: none"> • Block Storage <ul style="list-style-type: none"> ◦ -Server 1 ◦ -Server 2 ◦ -Server 3 • Control <ul style="list-style-type: none"> ◦ -Server 1 ◦ -Server 2 ◦ -Server 3 • Compute <ul style="list-style-type: none"> ◦ -Server 1 ◦ -Server 2 ◦ -Server 3 <p>Note When Pod type UMHC is selected then auto ToR configuration is not supported and the ToR info at server and roles level is not allowed to be entered.</p>	<p>Click Edit or + to add a new server and role to the table.</p> <table border="1" data-bbox="854 373 1479 1241"> <tr> <td data-bbox="854 373 1166 436">Server Name</td> <td data-bbox="1172 373 1479 436">Entry a friendly name.</td> </tr> <tr> <td data-bbox="854 445 1166 508">Rack ID field</td> <td data-bbox="1172 445 1479 508">The rack ID for the server.</td> </tr> <tr> <td data-bbox="854 516 1166 579">VIC Slot field</td> <td data-bbox="1172 516 1479 579">Enter a VIC Slot.</td> </tr> <tr> <td data-bbox="854 588 1166 651">CIMC IP field</td> <td data-bbox="1172 588 1479 651">Enter a IP address.</td> </tr> <tr> <td data-bbox="854 659 1166 722">CIMC Username field</td> <td data-bbox="1172 659 1479 722">Enter a Username.</td> </tr> <tr> <td data-bbox="854 730 1166 793">CIMC Password field</td> <td data-bbox="1172 730 1479 793">Enter a Password for CIMC.</td> </tr> <tr> <td data-bbox="854 802 1166 886">Select the Role from the drop down list</td> <td data-bbox="1172 802 1479 886">Choose Control or Compute or Block Storage from the drop-down list.</td> </tr> <tr> <td data-bbox="854 894 1166 1052">Management IP</td> <td data-bbox="1172 894 1479 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="854 1060 1166 1241">Management IPv6</td> <td data-bbox="1172 1060 1479 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>		Server Name	Entry a friendly name.	Rack ID field	The rack ID for the server.	VIC Slot field	Enter a VIC Slot.	CIMC IP field	Enter a IP address.	CIMC Username field	Enter a Username.	CIMC Password field	Enter a Password for CIMC.	Select the Role from the drop down list	Choose Control or Compute or Block Storage from the drop-down list.	Management IP	It is an optional field but if provided for one Server then it is mandatory to provide it for other Servers as well.	Management IPv6	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.
Server Name	Entry a friendly name.																			
Rack ID field	The rack ID for the server.																			
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Select the Role from the drop down list	Choose Control or Compute or Block Storage from the drop-down list.																			
Management IP	It is an optional field but if provided for one Server then it is mandatory to provide it for other Servers as well.																			
Management IPv6	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 Save or Add .	On clicking Save or Add all information related to Servers and Roles gets saved.																			
<p>If Configure ToR checkbox is True with at-least one switch detail, these fields will be displayed for each server and this is similar to DP Tor: Port Channel and Switch Name (Mandatory if Configure ToR is true)</p>	<ul style="list-style-type: none"> • Port Channel field • Switch Name field • Switch Port Info field 	<ul style="list-style-type: none"> • Enter the port channel input. • Enter the switch name. • Enter the switch port information. 																		

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

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																										
<p>Configure ToR optional checkbox.</p> <p>Note If UMHC is selected as podtype, configure TOR is not allowed.</p>	<p>Enabling this checkbox, changes the configure ToR section from false to true.</p> <p>Note Configure tor is true then ToR switch info maps in servers</p>																										
<p>ToR Switch Information mandatory table if you want to enter ToR information.</p>	<p>Click (+) to add information for ToR Switch.</p> <table border="1" data-bbox="797 520 1479 1644"> <thead> <tr> <th data-bbox="797 520 1135 583">Name</th> <th data-bbox="1135 520 1479 583">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="797 583 1135 646">Name</td> <td data-bbox="1135 583 1479 646">ToR switch name.</td> </tr> <tr> <td data-bbox="797 646 1135 709">Username</td> <td data-bbox="1135 646 1479 709">ToR switch username.</td> </tr> <tr> <td data-bbox="797 709 1135 772">Password</td> <td data-bbox="1135 709 1479 772">ToR switch password.</td> </tr> <tr> <td data-bbox="797 772 1135 835">SSH IP</td> <td data-bbox="1135 772 1479 835">ToR switch SSH IP.</td> </tr> <tr> <td data-bbox="797 835 1135 898">SSN Num</td> <td data-bbox="1135 835 1479 898">ToR switch ssn num.</td> </tr> <tr> <td data-bbox="797 898 1135 1035">VPC Peer Keepalive</td> <td data-bbox="1135 898 1479 1035">Peer Management IP. You cannot define if there is no peer.</td> </tr> <tr> <td data-bbox="797 1035 1135 1129">VPC Domain</td> <td data-bbox="1135 1035 1479 1129">Cannot define if there is no peer.</td> </tr> <tr> <td data-bbox="797 1129 1135 1192">VPC Peer Port Info</td> <td data-bbox="1135 1129 1479 1192">Interface for vpc peer ports.</td> </tr> <tr> <td data-bbox="797 1192 1135 1287">VPC Peer VLAN Info</td> <td data-bbox="1135 1192 1479 1287">VLAN ids for vpc peer ports (optional).</td> </tr> <tr> <td data-bbox="797 1287 1135 1381">BR Management Port Info</td> <td data-bbox="1135 1287 1479 1381">Management interface of build node.</td> </tr> <tr> <td data-bbox="797 1381 1135 1518">BR Management PO Info</td> <td data-bbox="1135 1381 1479 1518">Port channel number for management interface of build node.</td> </tr> <tr> <td data-bbox="797 1518 1135 1644">BR Management VLAN info</td> <td data-bbox="1135 1518 1479 1644">VLAN id for management interface of build node (access).</td> </tr> </tbody> </table>	Name	Description	Name	ToR switch name.	Username	ToR switch username.	Password	ToR switch password.	SSH IP	ToR switch SSH IP.	SSN Num	ToR switch ssn num.	VPC Peer Keepalive	Peer Management IP. You cannot define if there is no peer.	VPC Domain	Cannot define if there is no peer.	VPC Peer Port Info	Interface for vpc peer ports.	VPC Peer VLAN Info	VLAN ids for vpc peer ports (optional).	BR Management Port Info	Management interface of build node.	BR Management PO Info	Port channel number for management interface of build node.	BR Management VLAN info	VLAN id for management interface of build node (access).
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Click Save .																											

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

7	<p>Name</p> <p>Configure ToR optional checkbox.</p> <p>Note If UMHC is selected as podtype, configure TOR is not allowed.</p>	<p>Description</p> <p>Enabling this checkbox, changes the configure ToR section from false to true.</p> <p>Note Configure tor is true then ToR switch info maps in servers</p>																										
	<p>ToR Switch Information mandatory table if you want to enter ToR information.</p>	<p>Click (+) to add information for ToR Switch.</p> <table border="1"> <thead> <tr> <th>Name</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Name</td> <td>ToR switch name.</td> </tr> <tr> <td>Username</td> <td>ToR switch username.</td> </tr> <tr> <td>Password</td> <td>ToR switch password.</td> </tr> <tr> <td>SSH IP</td> <td>ToR switch SSH IP.</td> </tr> <tr> <td>SSN Num</td> <td>ToR switch ssn num.</td> </tr> <tr> <td>VPC Peer Keepalive</td> <td>Peer Management IP. You cannot define if there is no peer.</td> </tr> <tr> <td>VPC Domain</td> <td>Cannot define if there is no peer.</td> </tr> <tr> <td>VPC Peer Port Info</td> <td>Interface for vpc peer ports.</td> </tr> <tr> <td>VPC Peer VLAN Info</td> <td>VLAN ids for vpc peer ports (optional).</td> </tr> <tr> <td>BR Management Port Info</td> <td>Management interface of build node.</td> </tr> <tr> <td>BR Management PO Info</td> <td>Port channel number for management interface of build node.</td> </tr> <tr> <td>BR Management VLAN info</td> <td>VLAN id for management interface of build node (access).</td> </tr> </tbody> </table>	Name	Description	Name	ToR switch name.	Username	ToR switch username.	Password	ToR switch password.	SSH IP	ToR switch SSH IP.	SSN Num	ToR switch ssn num.	VPC Peer Keepalive	Peer Management IP. You cannot define if there is no peer.	VPC Domain	Cannot define if there is no peer.	VPC Peer Port Info	Interface for vpc peer ports.	VPC Peer VLAN Info	VLAN ids for vpc peer ports (optional).	BR Management Port Info	Management interface of build node.	BR Management PO Info	Port channel number for management interface of build node.	BR Management VLAN info	VLAN id for management interface of build node (access).
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	<p>Click Save.</p>																											

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

8 Name	Description		
Configure ToR	Is not checked, as by default ACI will configure the ToRs		
	<table border="1"> <tr> <td data-bbox="878 371 1182 436">Host Name</td> <td data-bbox="1182 371 1489 436">ToR switch name.</td> </tr> </table>	Host Name	ToR switch name.
	Host Name	ToR switch name.	
	<table border="1"> <tr> <td data-bbox="878 436 1182 533">VPC Peer keep alive</td> <td data-bbox="1182 436 1489 533">Enter Peer must be exist pair.</td> </tr> </table>	VPC Peer keep alive	Enter Peer must be exist pair.
	VPC Peer keep alive	Enter Peer must be exist pair.	
	<table border="1"> <tr> <td data-bbox="878 533 1182 598">VPC Domain</td> <td data-bbox="1182 533 1489 598">Enter an integer.</td> </tr> </table>	VPC Domain	Enter an integer.
VPC Domain	Enter an integer.		
<table border="1"> <tr> <td data-bbox="878 598 1182 726">BR management port info</td> <td data-bbox="1182 598 1489 726">Enter BR management port info eg. Eth1/19 ,atleast one pair to be exist.</td> </tr> </table>	BR management port info	Enter BR management port info eg. Eth1/19 ,atleast one pair to be exist.	
BR management port info	Enter BR management port info eg. Eth1/19 ,atleast one pair to be exist.		
<table border="1"> <tr> <td data-bbox="878 726 1182 823">Enter Node ID</td> <td data-bbox="1182 726 1489 823">Entered integer must be unique.</td> </tr> </table>	Enter Node ID	Entered integer must be unique.	
Enter Node ID	Entered integer must be unique.		

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

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

Name	Description		
HA Proxy	Fill in the Mandatory details:		
	<table border="1"> <tr> <td data-bbox="797 1157 1138 1253">External VIP Address</td> <td data-bbox="1138 1157 1489 1253">Enter IP address of External VIP.</td> </tr> </table>	External VIP Address	Enter IP address of External VIP.
	External VIP Address	Enter IP address of External VIP.	
	<table border="1"> <tr> <td data-bbox="797 1253 1138 1318">Virtual Router ID</td> <td data-bbox="1138 1253 1489 1318">Enter the Router ID for HA.</td> </tr> </table>	Virtual Router ID	Enter the Router ID for HA.
	Virtual Router ID	Enter the Router ID for HA.	
	<table border="1"> <tr> <td data-bbox="797 1318 1138 1415">Internal VIP Address</td> <td data-bbox="1138 1318 1489 1415">Enter IP address of Internal VIP.</td> </tr> </table>	Internal VIP Address	Enter IP address of Internal VIP.
Internal VIP Address	Enter IP address of Internal VIP.		
<table border="1"> <tr> <td data-bbox="797 1415 1138 1501">External VIP IPv6 Address</td> <td data-bbox="1138 1415 1489 1501">Enter IPv6 Address of External VIP.</td> </tr> </table>	External VIP IPv6 Address	Enter IPv6 Address of External VIP.	
External VIP IPv6 Address	Enter IPv6 Address of External VIP.		
<table border="1"> <tr> <td data-bbox="797 1501 1138 1577">Internal VIP IPv6 Address</td> <td data-bbox="1138 1501 1489 1577">Enter IPv6 Address of Internal VIP.</td> </tr> </table>	Internal VIP IPv6 Address	Enter IPv6 Address of Internal VIP.	
Internal VIP IPv6 Address	Enter IPv6 Address of Internal VIP.		

Name	Description																												
Keystone	<p>Mandatory field are pre-populated.</p> <table border="1" data-bbox="841 373 1516 499"> <tr> <td data-bbox="847 380 1179 436">Admin Username</td> <td data-bbox="1179 380 1510 436">admin.</td> </tr> <tr> <td data-bbox="847 436 1179 493">Admin Tenant Name</td> <td data-bbox="1179 436 1510 493">admin.</td> </tr> </table>	Admin Username	admin.	Admin Tenant Name	admin.																								
Admin Username	admin.																												
Admin Tenant Name	admin.																												
LDAP on Keystone	<p>LDAP enable checkbox which by default is false, if LDAP is enabled on keystone.</p> <table border="1" data-bbox="841 659 1516 1688"> <tr> <td data-bbox="847 665 1179 722">Domain Name field</td> <td data-bbox="1179 665 1510 722">Enter name for Domain name.</td> </tr> <tr> <td data-bbox="847 722 1179 779">Object Class for Users field</td> <td data-bbox="1179 722 1510 779">Enter a string as input.</td> </tr> <tr> <td data-bbox="847 779 1179 835">Object Class for Groups</td> <td data-bbox="1179 779 1510 835">Enter a string.</td> </tr> <tr> <td data-bbox="847 835 1179 892">Domain Name Tree for Users</td> <td data-bbox="1179 835 1510 892">Enter a string.</td> </tr> <tr> <td data-bbox="847 892 1179 1003">Domain Name Tree for Groups field</td> <td data-bbox="1179 892 1510 1003">Enter a string.</td> </tr> <tr> <td data-bbox="847 1003 1179 1060">Suffix for Domain Name field</td> <td data-bbox="1179 1003 1510 1060">Enter a string.</td> </tr> <tr> <td data-bbox="847 1060 1179 1171">URL field</td> <td data-bbox="1179 1060 1510 1171">Enter a URL with ending port number.</td> </tr> <tr> <td data-bbox="847 1171 1179 1262">Domain Name for Bind User field</td> <td data-bbox="1179 1171 1510 1262">Enter a string.</td> </tr> <tr> <td data-bbox="847 1262 1179 1352">Password field</td> <td data-bbox="1179 1262 1510 1352">Enter Password as string format.</td> </tr> <tr> <td data-bbox="847 1352 1179 1409">User Filter field</td> <td data-bbox="1179 1352 1510 1409">Enter filter name as string.</td> </tr> <tr> <td data-bbox="847 1409 1179 1465">User ID Attribute field</td> <td data-bbox="1179 1409 1510 1465">Enter a string.</td> </tr> <tr> <td data-bbox="847 1465 1179 1522">User Name Attribute field</td> <td data-bbox="1179 1465 1510 1522">Enter a string.</td> </tr> <tr> <td data-bbox="847 1522 1179 1579">User Mail Attribute field</td> <td data-bbox="1179 1522 1510 1579">Enter a string.</td> </tr> <tr> <td data-bbox="847 1579 1179 1635">Group Name Attribute field</td> <td data-bbox="1179 1579 1510 1635">Enter a string.</td> </tr> </table>	Domain Name field	Enter name for Domain name.	Object Class for Users field	Enter a string as input.	Object Class for Groups	Enter a string.	Domain Name Tree for Users	Enter a string.	Domain Name Tree for Groups field	Enter a string.	Suffix for Domain Name field	Enter a string.	URL field	Enter a URL with ending port number.	Domain Name for Bind User field	Enter a string.	Password field	Enter Password as string format.	User Filter field	Enter filter name as string.	User ID Attribute field	Enter a string.	User Name Attribute field	Enter a string.	User Mail Attribute field	Enter a string.	Group Name Attribute field	Enter a string.
Domain Name field	Enter name for Domain name.																												
Object Class for Users field	Enter a string as input.																												
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Domain Name Tree for Users	Enter a string.																												
Domain Name Tree for Groups field	Enter a string.																												
Suffix for Domain Name field	Enter a string.																												
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Domain Name for Bind User field	Enter a string.																												
Password field	Enter Password as string format.																												
User Filter field	Enter filter name as string.																												
User ID Attribute field	Enter a string.																												
User Name Attribute field	Enter a string.																												
User Mail Attribute field	Enter a string.																												
Group Name Attribute field	Enter a string.																												

Name	Description												
<p>Neutron</p>	<p>Neutron fields will change based on Tenant Network Type selection from Blueprint Initial Setup.</p> <p>Following are the options available for Neutron for OVS/VLAN:</p> <table border="1" data-bbox="805 449 1479 1528"> <tbody> <tr> <td data-bbox="805 449 1138 611">Tenant Network Type</td> <td data-bbox="1143 449 1479 611">Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="805 617 1138 779">Mechanism Drivers</td> <td data-bbox="1143 617 1479 779">Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.</td> </tr> <tr> <td data-bbox="805 785 1138 1150">NFV Hosts</td> <td data-bbox="1143 785 1479 1150">Auto filled with the Compute added in Server and Roles. Selecting All 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="805 1157 1138 1247">Tenant VLAN Ranges</td> <td data-bbox="1143 1157 1479 1247">Only with VTS/VLAN and VPP/VLAN.</td> </tr> <tr> <td data-bbox="805 1253 1138 1310">Enable Jumbo Frames</td> <td data-bbox="1143 1253 1479 1310">By default Check Box is false.</td> </tr> <tr> <td data-bbox="805 1316 1138 1528">Huge page size Note : This is available only when Compute node is present in NFV host</td> <td data-bbox="1143 1316 1479 1528">Dropdown list 1 2M 2 1G</td> </tr> </tbody> </table> <p>For Tenant Network Type Linux Bridge everything will remain the same but Tenant VLAN Ranges will be Removed.</p>	Tenant Network Type	Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.	Mechanism Drivers	Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.	NFV Hosts	Auto filled with the Compute added in Server and Roles. Selecting All 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.	Tenant VLAN Ranges	Only with VTS/VLAN and VPP/VLAN.	Enable Jumbo Frames	By default Check Box is false.	Huge page size Note : This is available only when Compute node is present in NFV host	Dropdown list 1 2M 2 1G
Tenant Network Type	Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.												
Mechanism Drivers	Auto Filled based on the Tenant Network Type selection in Blueprint Initial Setup page.												
NFV Hosts	Auto filled with the Compute added in Server and Roles. Selecting All 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.												
Tenant VLAN Ranges	Only with VTS/VLAN and VPP/VLAN.												
Enable Jumbo Frames	By default Check Box is false.												
Huge page size Note : This is available only when Compute node is present in NFV host	Dropdown list 1 2M 2 1G												
<p>CEPH</p>	<p>Ceph has two pre-populated fields:</p> <ul style="list-style-type: none"> • CEPH Mode : By default Dedicated. • NOVA Boot: From drop down selection you can choose Ceph or local. 												

Name	Description
GLANCE	By default Populated for CEPH Dedicated with Store Backend value as CEPH .
CINDER	By default Populated for CEPH Dedicated with Volume Driver value as CEPH .

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

Name	Description																										
	<p>Check one of the check boxes to specify a VMTP network:</p> <ul style="list-style-type: none"> • Provider Network. • External Network. <p>For the Provider Network complete the following:</p> <table border="1" data-bbox="842 535 1516 1178"> <tbody> <tr> <td data-bbox="849 541 1179 632">Network Name field</td> <td data-bbox="1179 541 1510 632">Enter the name for the external network.</td> </tr> <tr> <td data-bbox="849 632 1179 722">IP Start field</td> <td data-bbox="1179 632 1510 722">Enter the starting floating IPv4 address.</td> </tr> <tr> <td data-bbox="849 722 1179 812">IP End field</td> <td data-bbox="1179 722 1510 812">Enter the ending floating IPv4 address</td> </tr> <tr> <td data-bbox="849 812 1179 903">Gateway field</td> <td data-bbox="1179 812 1510 903">Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td data-bbox="849 903 1179 993">DNS Server field</td> <td data-bbox="1179 903 1510 993">Enter the DNS server IPv4 address.</td> </tr> <tr> <td data-bbox="849 993 1179 1083">Segmentation ID field</td> <td data-bbox="1179 993 1510 1083">Enter the segmentation ID.</td> </tr> <tr> <td data-bbox="849 1083 1179 1178">Subnet</td> <td data-bbox="1179 1083 1510 1178">Enter the Subnet for Provider Network.</td> </tr> </tbody> </table> <p>For External Network fill in the following details:</p> <table border="1" data-bbox="842 1283 1516 1856"> <tbody> <tr> <td data-bbox="849 1289 1179 1379">Network Name field</td> <td data-bbox="1179 1289 1510 1379">Enter the name for the external network.</td> </tr> <tr> <td data-bbox="849 1379 1179 1470">Network IP Start field</td> <td data-bbox="1179 1379 1510 1470">Enter the starting floating IPv4 address.</td> </tr> <tr> <td data-bbox="849 1470 1179 1560">Network IP End field</td> <td data-bbox="1179 1470 1510 1560">Enter the ending floating IPv4 address.</td> </tr> <tr> <td data-bbox="849 1560 1179 1650">Network Gateway field</td> <td data-bbox="1179 1560 1510 1650">Enter the IPv4 address for the Gateway.</td> </tr> <tr> <td data-bbox="849 1650 1179 1740">DNS Server field</td> <td data-bbox="1179 1650 1510 1740">Enter the DNS server IPv4 address.</td> </tr> <tr> <td data-bbox="849 1740 1179 1856">Subnet.</td> <td data-bbox="1179 1740 1510 1856">Enter the Subnet for External Network.</td> </tr> </tbody> </table>	Network Name field	Enter the name for the external network.	IP Start field	Enter the starting floating IPv4 address.	IP End field	Enter the ending floating IPv4 address	Gateway field	Enter the IPv4 address for the Gateway.	DNS Server field	Enter the DNS server IPv4 address.	Segmentation ID field	Enter the segmentation ID.	Subnet	Enter the Subnet for Provider Network.	Network Name field	Enter the name for the external network.	Network IP Start field	Enter the starting floating IPv4 address.	Network IP End field	Enter the ending floating IPv4 address.	Network Gateway field	Enter the IPv4 address for the Gateway.	DNS Server field	Enter the DNS server IPv4 address.	Subnet.	Enter the Subnet for External Network.
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Subnet.	Enter the Subnet for External Network.																										

Name	Description												
<p>TLS optional section, this will be visible only if TLS is selected from Blueprint Initial Setup Page.</p>	<p>TLS has two options:</p> <ul style="list-style-type: none"> • External LB VIP FQDN - Text Field. • External LB VIP TLS - True/False. By default this option is false. 												
<p>SwiftStack optional section will be visible only if SwiftStack is selected from Blueprint Initial Setup Page. SwiftStack is only supported with Keystone2. If you select Keystone3, 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="803 661 1479 1339"> <tbody> <tr> <td data-bbox="803 661 1141 793">Cluster End Point</td> <td data-bbox="1144 661 1479 793">IP address of PAC (proxy-account-container) endpoint.</td> </tr> <tr> <td data-bbox="803 798 1141 888">Admin User</td> <td data-bbox="1144 798 1479 888">Admin user for swift to authenticate in keystone.</td> </tr> <tr> <td data-bbox="803 892 1141 1050">Admin Tenant</td> <td data-bbox="1144 892 1479 1050">The service tenant corresponding to the Account-Container used by Swiftstack.</td> </tr> <tr> <td data-bbox="803 1054 1141 1211">Reseller Prefix</td> <td data-bbox="1144 1054 1479 1211">Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_</td> </tr> <tr> <td data-bbox="803 1215 1141 1272">Admin Password</td> <td data-bbox="1144 1215 1479 1272">swiftstack_admin_password</td> </tr> <tr> <td data-bbox="803 1276 1141 1339">Protocol</td> <td data-bbox="1144 1276 1479 1339">http or https</td> </tr> </tbody> </table>	Cluster End Point	IP address of PAC (proxy-account-container) endpoint.	Admin User	Admin user for swift to authenticate in keystone.	Admin Tenant	The service tenant corresponding to the Account-Container used by Swiftstack.	Reseller Prefix	Reseller_prefix as configured for Keysone Auth,AuthToken support in Swiftstack E.g KEY_	Admin Password	swiftstack_admin_password	Protocol	http or https
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Admin Password	swiftstack_admin_password												
Protocol	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

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

When Tenant Type is VTS/VLAN then VTS tab is available in blueprint setup.

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

11 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="625 373 1479 793"> <tbody> <tr> <td data-bbox="625 373 1052 436">Remote Host</td> <td data-bbox="1052 373 1479 436">Enter Syslog IP Address.</td> </tr> <tr> <td data-bbox="625 436 1052 499">Protocol</td> <td data-bbox="1052 436 1479 499">Supports only UDP.</td> </tr> <tr> <td data-bbox="625 499 1052 562">Facility</td> <td data-bbox="1052 499 1479 562">Defaults to local5.</td> </tr> <tr> <td data-bbox="625 562 1052 625">Severity</td> <td data-bbox="1052 562 1479 625">Defaults to debug.</td> </tr> <tr> <td data-bbox="625 625 1052 688">Clients</td> <td data-bbox="1052 625 1479 688">Defaults to ELK.</td> </tr> <tr> <td data-bbox="625 688 1052 793">Port</td> <td data-bbox="1052 688 1479 793">Defaults to 514 but can be modified by the User.</td> </tr> </tbody> </table>	Remote Host	Enter Syslog IP Address.	Protocol	Supports only UDP.	Facility	Defaults to local5.	Severity	Defaults to debug.	Clients	Defaults to ELK.	Port	Defaults to 514 but can be modified by the User.
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Protocol	Supports only UDP.												
Facility	Defaults to local5.												
Severity	Defaults to debug.												
Clients	Defaults to ELK.												
Port	Defaults to 514 but can be modified by the User.												
NFVBENCH	<p>NFVBENCH enable checkbox by default is false.</p> <p>Add ToR information connect to Switch:</p> <ul style="list-style-type: none"> • Select a TOR Switch and enter the Switch name. • Enter the port number. For Example: eth1/5 . VTEP VLANS (mandatory and needed only for VTS/VXLAN,): Enter 2 different VLANs for VLAN1 and VLAN2. • NIC Ports: INT1 and INT2 optional input. Enter the 2 port numbers of the 4-port 10G Intel NIC at the management node used for NFVBench. 												

Step 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 **Browse** 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 2nd 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 2.2 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
CIMC_COMMON old Password	CIMC_COMMON old password field cannot be edited.
CIMC-COMMON new Password	Enter new CIMC-COMMON password. Password should be alphanumeric according to the password rule.
Click Update Password	Old CIMC-COMMON password will be updated with new CIMC-COMMON 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	Repeated re-deployment Options
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

Optional Features	Repeated re-deployment Options
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
HTTP Proxy Server	True
HTTPS Proxy Server	True

Pod User Administration

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

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 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.
Permission	Check the Permission 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 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:

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.
