

Managing Pod Through Cisco VIM Unified Management

The following are the naming conventions used in the Cisco VIM UM

- 1. Super Administrator (UM Admin): User having access to UM Admin profile
- 2. POD Administrator: User having access to register a Pod in the system(Only UM can add new Pod Admin in the system)
- **3.** Pod users (Normal users): o All the users which are associated with the Pod. Full-pod-access: Role assigned to user which gives full access of a specific Pod(This has nothing to do with Pod Admins)

The following are the Key Points

- User who are UM admin or Pod admin but not associated with any Pod are not counted in UM admin dashboard user count section
- Only Pod Admins can register a new Pod
- Every Pod must a user with "Full-pod-Access" role.
- User cannot be revoked/delete if the users is the last user on the pod with "Full-Pod-Access" role.
- User cannot be delete if user is a Pod admin or UM admin.

The following topics tell you how to install and replace Cisco Virtual Infrastructure Manager (VIM) nodes using Cisco VIM Insight.

- Managing Hardware, on page 1
- Power Management, on page 9
- Managing Software, on page 12
- Pod User Administration, on page 25

Managing Hardware

Management of your Cisco VIM pods includes adding, removing, or replacing the nodes.

In a pod, multiple nodes cannot be changed at the same time. For example, if you want to replace two control nodes, you must successfully complete the replacement of the first node before you begin to replace the second node. Same restriction applies for addition and removal of storage nodes. Only, in case of Compute Nodes

you can add or remove multiple nodes together. However, there must always be one active compute node in the pod at any given point. VNF manager stays active and monitors the compute nodes so that moving the VNFs accordingly as compute node management happens.

Note When you change a control, storage, or compute node in a Cisco VIM pod using Insight, it automatically updates the server and role in the active blueprint, as a result, your OpenStack deployment changes. When a node is removed from Cisco VIM, sensitive data may remain on the drives of the server. Administrator advice you to use Linux tools to wipe the storage server before using the same server for another purpose. The drives that are used by other application server must be wiped out before adding to Cisco VIM.

Searching Compute and Storage Nodes

This functionality allows you to search the Compute and Storage nodes by server names only. The search result is generated or shows an empty grid if there are no results.

Figure 1: Search Storage Nodes

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POD Management

Cisco VIM allows the admin to perform pod life-cycle management from a hardware and software perspective. VIM provides the ability to power on/off compute node, add, remove or replace nodes based on the respective roles when the nodes of a given pod corrupts at times.

Figure 2: POD Management

cisco VIM Unified N	Managem	ent			Di 10	nny Pod .30.117.238	~ (Role: Full-Po	xd-Access	User ID: P	havin Varma	٥
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d User Administration															

Pod Management page has two sections-

- 1. Node Summary: Node Summary section shows how many nodes are available and the detailed count of Control, Compute and Storage type.
- **2. IP Pool Summary: IP** Pool Summary section shows the Total Pool Summary and the current available pool count.

The opeartions performed on the running pod are:

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

Add Computes/Storage Nodes: N-computes nodes can be replaced simultaneously; however at any given point, at least one compute node ahs to be active.

Power On/ Off compute Nodes: You can Power On or Power Off compute node. At least one compute node must be powered on.

Remove Compute/Storage Nodes: You can add one node at a time, given that we run Ceph as a distributed storage offering.

Add Pool: You can increase pool size at any time.

Managing Storage Nodes

Before you add or remove a storage node, review the following guidelines for Managing Storage Nodes.

• Required Number of Storage Nodes: A Cisco VIM pod must have a minimum of three and a maximum of 20 storage nodes. If your pod has only two storage nodes, you cannot delete a storage node until you

add another storage node. If you have fewer than three storage nodes, you can add one node at a time until you get to 20 storage nodes.

- Validation of Nodes: When you add a storage node to a pod, Cisco VIM Insight validates that all the nodes in the pod meet the minimum requirements and are in active state. If you have a control or compute node in a faulty state, you must either correct, delete or replace that node before you can add a storage node.
- Update Blueprint: When you add or delete a storage node, Insight updates the blueprint for the Cisco VIM pod.
- Storage Node Logs: You can access the logs for each storage node from the link in the Log column on the Storage Nodes tab.

Adding Storage Node

Complete the following instructions to add a storage node:



Note You cannot add more than one storage node at a time.

Before you begin

- Remove the non-functional storage node from the pod. You can have maximum 20 storage nodes in a Cisco VIM pod.
- Ensure that the server for the new storage node is in powered state in OpenStack for C Series.
- **Step 1** In the navigation pane, choose **Post-Install > Pod Management > Storage**.
- **Step 2** Click on Add Storage node button on the Storage tab. A popup will open where you can provide information about the new Storage node.
- **Step 3** For C Series, add the following details:
 - Server Name: Name for the Storage Server to be added.
 - Rack ID: Enter the Rack ID. (Accepts String format).
 - CIMC IP: Enter the CIMC IP.
 - CIMC User Name: User name for the CIMC.
 - CIMC Password: Enter the password for the CIMC
 - VIC Slot: Enter the VIC Slot (Optional).
 - ToR switch info: Mandatory if ToR is configured as True
 - Management IPv6: Enter IPv6 Address.
- **Step 4** For B Series, add the following details:
 - Server Name: Name for the Storage Server to be added.

- Rack ID: Enter the Rack ID. (Accepts String format).
- Rack Unit ID: Enter the Rack Unit ID.
- Management IPv6: Enter IPv6 Address.
 - **Note** Cancel will discard the changes and popup will be closed

If all mandatory fields are filled in correctly then Add Storage button will be enabled.

- Step 5 Click Initiate Add Storage. Add node initialized message will be displayed.
- Step 6To view logs, click View logs under Logs column.
The status of the POD will change to Active.
- **Step 7** Two kinds of failure may occur:
 - Add Node Pre-Failed: When addition of node failed before the bare-metal stage (step 4) the Active Blueprint will be modified but the Node is not yet added in the Cloud. If you press X Icon, then Insight will delete the node information form the Blueprint and the state would be restored.
 - Add Node Post-Failed: When addition of node failed after the bare-metal stage (step 4) the Active Blueprint will be modified and the node is registered in the cloud. If you press X Icon, then Insight will first delete the node from the Blueprint and then node removal from cloud would be initiated.

You can view the logs for this operation under Logs column.

Deleting Storage Node

You cannot delete more than one storage node at a time.

- **Step 1** In the Navigation pane, choose **Post-Install > POD Management > Storage**.
- **Step 2** Click **X** adjacent to the storage node you want to delete.
- **Step 3** Node Removal Initiated successfully message will be displayed.

To view logs, click View logs under logs column.

- If the Storage Node is deleted successfully, the storage node will be removed from the list under Add/Remove storage Node.
- In deletion failed, a new button Clear Failed Nodes will be displayed. Click Clear Failed Nodes to remove the node form cloud and Blueprint.

Managing Compute Nodes

Before you add or remove a compute node, review the following guidelines:

• **Required Number of Compute Nodes**: Cisco VIM pod must have a minimum of one compute node and a maximum of 61 compute nodes (with 3 ceph nodes). If your pod has only one compute node, you cannot delete that node until you add another compute node.

- Update Blueprint: When you add or remove a compute node, Insight updates the blueprint for the Cisco VIM pod.
- Compute Node Logs: You can access the Logs for each compute node from the link in the Log column on the Compute Nodes table.

Adding Compute Node

Add IP Pool

If all the existing pool size is already used, then you need to increase the pool size. On the Add compute or Add storage popup, Click **Expand Management IP pool** to add a new Pool.

Expand Management	IP pool	~
Subnet :	10.1.1.0/24	
Gateway :	10.1.1.9	
VLAN ID :	3333	
Management Node IP:	IPv4 IPv6 IPv6	
Existing IPv4 Pool: *	10.1.1.11 to 10.1.1.20,10.1.1.21	0
Add IPv4 Pool: *	Enter New Management/Provision Pool	

Complete the instructions, to add a compute node:

Before you begin

Ensure that the server for the new compute node is in powered state in OpenStack. You can add more than one compute node at a time.

- **Step 1** In the navigation pane, click **Post-Install > Pod Management > Compute**.
- Step 2 Click Add Compute Node on the Compute tab a popup opens. Add the required information in the popup. To add another node clcik Add Another Node if you planned to add another compute node OR hit Initiate Add Compute if you so not plan to add any more compute node. If you hit "Add Another Node" button, the existing form will be emptied. You will have to fill the information for the new compute node and then repeat step 1. You may use Previous and Next button to navigate among different added node information.
- **Step 3** For C Series, add the following details:
 - Server Name: Name for the Compute Server.
 - Rack ID: Enter the Rack ID. (Accepts String format).
 - CIMC IP: Enter the CIMC IP.
 - CIMC User Name: User name for the CIMC.
 - CIMC Password: Enter the password for the CIMC.

- VIC Slot: Enter the VIC Slot (Optional).
- ToR switch info: Mandatory if configured ToR is true.
- DP ToR switch info: Enter input as string format.
- SRIVO ToR info : Enter input as string format.
- Management IPv6 : Enter IPv6 Address.
- **Step 4** For B Series, add the following details:
 - Server Name: Name for the Storage Server to be added.
 - Rack ID: Enter the Rack ID. (Accepts String format).
 - Rack Unit ID: Enter the Rack Unit ID.
 - Chassis ID: Enter the Chassis ID. Range for Chassis ID is 1-24.
 - Blade ID: Enter the Blade ID. Range for Blade ID is 1-8.
 - CIMC Password: Enter the CIMC Password.
 - Management IPv6: Enter IPv6 address.

If all mandatory fields are filled in correctly then click Save

Note Add Compute process can initiate multiple add of compute nodes. Fill in the mandatory fields to save new compute node or press cancel to exit message will be displayed.

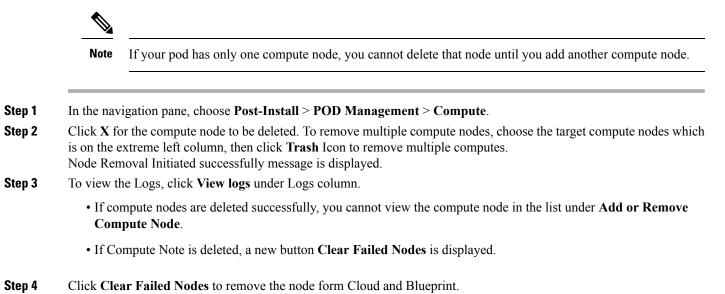
Fields of Pod management will remain mandatory for user input based on setup-data.

- **Step 5** You may perform one among these steps mentioned below:
 - Clicking Cancel displays the compute node information listed in the table and Add Compute Node button is enabled.
 - If you feel you have filled in a wrong entry for the compute node information, click **Delete**. This will delete the entry from the table as this information is not added in the Blueprint.
 - Click Initiate Add Compute, displays Add node initialized message.
- **Step 6** To view logs, click **View logs** under Logs column. The status of the POD will change to Active.
- **Step 7** Two kinds of failure may occur:
 - Add Node Pre-Failed: When addition of node failed before the bare-metal stage (step 4) the Active Blueprint will be modified but the Node is not yet added in the Cloud. If you press X Icon, then Insight will delete the node information form the Blueprint and the state would be restored.
 - Add Node Post-Failed: When addition of node failed after the bare-metal stage (step 4) the Active Blueprint will be modified and the node is registered in the cloud. If you press X Icon, then Insight will first delete the node from the Blueprint and then node removal from cloud would be initiated.

You can view the logs for this operation under Logs column.

Deleting Compute Node

Compute node is deleted due to a hardware failure. You can delete one compute node at a time.



Managing Control Nodes

Before you replace a control node, review the following guidelines:

- Required Number of Control Nodes: A Cisco VIM pod must have three control nodes and you can only replace one node at a time.
- Validation of Nodes: When you replace a control node, Cisco VIM Insight validates if all the other nodes in the pod meet the minimum requirements and are in active state. If you have a storage or a compute node in a faulty state, you must correct the faulty state or delete or replace that node before you can replace the control node.
- Update Blueprint: When you replace a control node, Insight updates the Active blueprint for the Cisco VIM pod.
- Control Node Logs: You can access the logs for each control node from the link in the Logs column of Control Nodes table.

Replacing Control Node

You can replace only one control node at a time.

- **Step 1** In the navigation pane, click **Post-Install > Pod Management > Control.**
- Step 2 Click (Spin) icon. A confirmation pop-up appears, Click proceed to continue.
- **Step 3** If you want to edit a specific control node before replace, click **Edit** to update the changes.
- Step 4 On success, Replace Node Initiated successfully message is displayed.

Step 5 You can view the logs in the **Logs** column on the Control Nodes table.

What to do next

If the replacement of the control node fails, do the following:

- Click the link in the Logs column.
- Check the logs to determine the cause of the failure.
- Correct the issue and attempt to replace the control node again.

Power Management

Compute node can be powered on or powered off from the Compute Tab in Pod Management section. There is a power button associated with each compute with information provided as tooltip when you hover on that icon. To power on/off multiple compute node, user can click on the power button located to the left of delete button. This power button is disabled by default. When user selects the compute nodes by clicking on checkboxes in the first column, the corresponding power button will be enabled.

Power ON a Compute Node

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			Node	Summary						1	P Pool Sur	mary		
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		Total	Control	Compute	Storage						Total Av	allable		
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\$	_	Rack Id ¹¹			смо Р≝	VIC Stor	Manag ¹⁰ 10.1.1.17	Manag"	Ter Info ^{**}	DP Tor				
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Click the **Power** button of a compute node which is currently powered off (grey icon). Message showing Power on is displayed. The *power* button starts blinking with the tooltip message as 'Powering on'. During, this time **Add Compute** button is disabled.

			Node	Summary						1	Pool Sum	imary		
		10	2	2	4				_		10	0		
		St	arted PowerC	on operation	ł				4		Total Av	allable		
Cd	ontrol Co	mpute S	torage											
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C	ontrol Co	mpute S	lorage							Search	server	Q	Add Co	mpute Nod
C	Server		CIMC IP*	CIMC U	CIMC P	VIC Slot~	Manag	Manag*	Tor Info $$		SRIOV			
Co	_	Rack Id ~		CIMC U	CIMC P	VIC Slot	Manag* 192.168	Manag	Tor Info ~ (* c38-n					Logš
Cc	Server	Rack Id * RackC	CIMC IP*	CIMC U		VIC Slot	-	Manag*				Status	~ Actions `	

Once, the compute node is *Powered on*, the icon stops blinking and the color of power icon changes to green. The **Add Compute Node** button is enabled immediately.

Powering Off Compute Node



You cannot power off all the Compute nodes. There must be at least one Compute node that is in the On state.

Follow these steps to power off a Compute node:

- 1. Click the Compute tab.
- 2. In the Pod Management area, under the Actions column, click the **Power** button of the Compute node that you want to power off.

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		Do	you really wa	ant to power	0/17?						Total Av	allable		
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	_													
										Search (verver	Q	Add Con	quite Node
	Server"	Rack Id *	CIMC IP*	CIMC U.T.	CIMO P.2	'VIC Slot"	Manag"	Manag"	"Tion India"				Add Con	pute Node Logaï
	Server		CIMC IP"	CMC U.T.	CIMC P	VIC Slot"	Manag"		Tor Info ~ (* c38-n					
		RackC				'VIC Slot."						Status	" Actions"	Logi

3. Click Yes in the confirmation dialog box.

		10	2	2	4		_				10	0		
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	c38-com	RackC RackC	172.26.2	CIMC U	•••••	VIC Slot	192.168	Manag*	{*c38-n	DP Tor 🚊	SRIOV	Active		

It may take a few minutes for the Compute node to power off. The tooltip of the power button displays the status of the Compute node. Once the compute node is powered off, the Power button stops blinking and its color changes to grey.

Note

If there is only one compute node in the grid, and you try to power off it, a message *Last compute node can't be powered off* is displayed. Also, when you power off the last available compute node in the list of nodes, then the message *At least one compute node should be powered on* is displayed.

Searching Compute and Storage Nodes

This functionality allows you to search the Compute and Storage nodes by server names only. The search result is generated or shows an empty grid if there are no results.

Figure 4: Search Storage Nodes

								c38-storage	e-1	Q	1	vdid S	torage I	lode
Server Na	Rack Id	ČIMC IP	CIMC Use	CIMC Pas	VIC Slot $\stackrel{\scriptstyle \vee}{}$	Tor info \checkmark	Managem	Managem	Status	×	Actions	×	Logs	~
38-storag	RackA	172.26.229		•••••		{*c38-n9k	192.168.38		Active				View L	ogs

Managing Software

Software management of your Cisco VIM pods includes software update, reconfigure of openstack services and password, etc.

VIM Software 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 cloud management facility from software point of view. Software update of the cloud is achieved by uploading a valid tar file, following initiation of a System Update form the Insight as follows:

Step 1	In the Navigation pane, click Post-Install > System Update .
Step 2	Click Browse and select the valid tar file.
Step 3	Click Open .
Step 4	Click Upload and Update . Update started Successfully message will be displayed.
Step 5	Update status will be shown as ToUpdate .
	Click the hyperlink to view the reconfigure logs for install logs.

Reconfigure status will be available on the page or the dashboard under POD Operation details.

What to do next

System Update has been initiated message will be displayed. Logs front-ended by hyperlink will be in the section below in-front of **Update Logs** which shows the progress of the update. During the software update, all other pod management activities will be disabled. Post-update, normal cloud management will commence. Once update has completed you will see the status of update in the box below.

If log update fails, Auto-RollBack will be initiated automatically.

If log update is Successful, you will have two options to be performed:

- 1. Commit—To proceed with the update.
- **2. RollBack**—To cancel the update.

If Auto-rollback fails during software update fails through Insight UI, it is advised that the administrator contact Cisco TAC for help. Do not re-try the update or delete the new or the old installer workspace.

Reconfigure Openstack Passwords

There are two options to regenerate the passwords:

- **Regenerate all passwords**: Click **Regenerate all passwords** checkbox and click **Set Password**. This will automatically regenerate all passwords in alphanumeric format.
- **Regenerate single or more password**: This will set a specific password by doing an inline edit for any service like Horizon's ADMIN_USER_PASSWORD. Double click on the filed under Password and enter the password to enable **Set Password** button.

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e-instal	Ф ()	Openstack Password					
Bueprint Setup Bueprint Management		E Reponente al Postwords		0			
ist-metal	*	Password Name	* Password	*			
Logging MPd Monitor		HEAT_KEYSTONE_PASSWORD			Status Of Pasaword Reconfigure		
Horizon		CRDER_KEYSTONE_PASSWORD			Created At		
Run VMTP		RABBITMO_ERLANG_COOKE			Updated At		
Run Cloud Pulse		METADATA_PROXY_SHARED_SECRET			Status		
Run Cloud Sanity Ministerich		WSREP_PASSWORD			Update Logs	Not Available	
Pod Management		MONDA THROUMOND			Actions	Not Applicable	
System Update		ETCD_ROOT_PASSWORD					
Reconfigure	-	HEAT_DB_PASSWORD					
CIMC Password		CRDER_DB_PASSWORD					
Openstack Password							
Openstack Config Optional Services		KEYSTONE_DB_PASSWORD					
nw Topology		NOVA_DB_PASSWORD					
en idoody		H 4 1 23 P H 10	· Berta per page				
d User Administration							
		Set Passeord Ocar					

During the reconfiguration of password, all other pod management activities will be disabled. Post-update, normal cloud management will commence. If the reconfigure of the password fails, all subsequent pod management operations will be blocked. It is advised to contact Cisco TAC to resolve the situation through CLI.

Reconfigure OpenStack Services, TLS Certificates, and ELK Configurations

Cisco VIM supports the reconfiguration of OpenStack log level services, TLS certificates, and ELK configuration. Following 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 the specific item that you want to change and update. For example: to update the TLS certificate click the path to the certificate location.
- **Step 3** Enter **Set Config** to commence the process.

What to do next

During the reconfiguration process, all other pod management activities are disabled. Post-update, normal cloud management commences. If reconfigure of OpenStack Services fails, all subsequent pod management operations are blocked. Contact, Cisco TAC to resolve the situation through CLI.

Reconfiguring CIMC Password through Unified Management

Cisco VIM allows you to 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.

You need to match the following Password rule to update the Password:

- 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 will 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** You can reconfigure the CIMC Password at global level by adding new CIMC_COMMON Password or to reconfigure CIMC Password for individual servers double click the server password you want to edit.
- **Step 5** Click **Reconfigure**to initiate reconfigure process.

Reconfigure Optional Services

Cisco VIM offers optional services such as heat, migration to Keystone v3, NFVBench, NFVIMON, etc, that can be enabled post-pod deployment. 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 services and update the fields with the right values.
- **Step 3** Click **Offline validation**. Once offline validation is successful.
- **Step 4** Click **Reconfigure** to commence the process.

During the reconfiguration process, all other pod management activities will be disabled. Post-update, normal cloud management will commence.

If reconfigured OpenStack Services fail, all subsequent pod management operations are blocked. Contact Cisco TAC 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 Option
APICINFO	True
EXTERNAL_LB_VIP_FQDN	False
EXTERNAL_LB_VIP_TLS	False
INSTALL_MODE	True
HTTP_PROXY & HTTPS_PROXY	True
LDAP	True
NETWORKING	True
NFVBENCH	False
NFVIMON	False
PODNAME	False
PROVIDER_VLAN_RANGES	True
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

Reconfiguring Optional Features Through Unified Management

Step 1 Log-in to Cisco VIM UM.

- **Step 2** In the Navigation pane, expand the Post-Install Section.
- Step 3 Click Reconfiguring Optional Feature through UM.
- **Step 4** On the **Reconfiguring Optional Feature through UM** page of the Cisco VIM UM, complete the following fields:

Name	Description
Heat check box	• Enable Heat .
	Click Offline Validation .
	• When Offline Validation is successful, click Reconfigure to commence the process
Keystone v3 check box	• Enable Keystone v3.
	Click Offline Validation .
	• When Offline Validation is successful, click Reconfigure to commence the process.
ENABLE_ESC_PRIV	• Enable ENABLE_ESC_PRIV .
	Click Offline Validation .
	• When Offline Validation is successful, click Reconfigure to commence the process.
Autobackup check box	• Enable/Disable Autobackup.
	Click Offline Validation .
	• When Offline Validation is successful, click Reconfigure to commence the process.
External LB VIP TLS check box	Enable External LB VIP TLS.
	Click Offline Validation .
	• When Offline Validation is successful, click Reconfigure to commence the process.
External LB VIP FQDN check box	• Enter Input as a string.
	Click Offline Validation .
	• When Offline Validation is successful, click Reconfigure to commence the process.
Pod Name	• Enter Input as a string.
	Click Offline Validation .
	• When Offline Validation is successful, click Reconfigure to commence the process.

Name	Description					
Tenant Vlan Ranges• Augment tenant vlan 3310:3315.		vlan ranges input. For Example:				
	Click Offline Va	lidation .				
		lidation is successful, click commence the process.				
Provider VLAN Ranges	• Enter input to ter 3310:3315.	nant vlan ranges. For Example:				
	Click Offline Va	lidation .				
		lidation is successful, click commence the process.				
Install Mode	Select Connected drop-down list.	Select Connected or Disconnected, any one form the drop-down list.				
	Click Offline Validation .					
	• When Offline Validation is successful, click Reconfigure to commence the process.					
Syslog Export Settings	Following are the opt	Following are the options for Skylog Settings:				
	Remote Host	Enter Syslog IP Address.				
	Facility	Defaults to local5				
	Severity	Defaults to debug				
	Clients	Defaults to ELK				
	Port	Defaults to 514 but is modified by the User.				
	Protocol	Supports only UDP				
	Click Offline Va					
	• When Offline Validation is successful, click Reconfigure to commence the process.					
Configure ToR checkbox	True or False. Defaul	It is false.				

Name	Description						
ToR Switch Information	Click + to add information fo	Click + to add information for ToR Switch.					
	Name	Description					
	Name	ToR switch name.					
	Username	ToR switch username.					
	Password	ToR switch Password.					
	SSH IP	ToR switch SSH IP Address.					
	SSN Num	ToR switch ssn num. output of show license host-id.					
	VPC Peer Keepalive	Peer Management IP. You need not define if there is no peer.					
	VPC Domain	Need not define if there is no peer.					
	VPC Peer port	Interface for vpc peer ports.					
	VPC Peer VLAN Info	vlan ids for vpc peer ports (optional).					
	BR Management Port Info	Management interface of the build node.					
	BR Management PO Info	Port channel number for the management interface of the build node.					
	Click Save						
	Click Offline Validation	n .					
	When Offline Validation Reconfigure to comment						

Note When setup data is ACI VLAN with TOR then reconfigure options are:

TORSwitch Information mandatory table if you want to	Click + to add information for ToR Switch.				
enter ToR information	Name	Description			
	Host Name	ToR switch name.			
	VPC Peer Keepalive	Peer Management IP.			
	VPC Domain	Do not define if there is no			
	Node ID	Integer, unique across all switches			
	 Click Save Click Offline Validation . When Offline Validation is successful, click Reconfigure to commence the process. 				
NFV Bench	Enable check box which by default is false.				
	Add Tor info connected to switch:				
	• Select a TOR Switch	and Enter the Switch name.			
	• Enter the port number. For example: eth1/5				
	• NIC Ports: INT1 and INT2 optional input, en port numbers of the 4-port 10G Intel NIC at management node used for NFVBench.				
	Click Offline Validation .				
	• When Offline Validat Reconfigure to comm				
	deployed. Then r	present in Setup-data or already no need add Tor info, by default name is mapped in NFV bench.			

Swiftstack SwiftStack is only supported with Keystone v2. If you select Keystone v3, swiftstack will not be available for	Cluster End Point	IP address of PAC (proxy-account-container) endpoint.	
configuration.	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 Keystone Auth,AuthToken support in Swiftstack E.g KEY_	
	Admin Password	swiftstack_admin_password	
	Protocol drop-down list	http or https	
	 Click Offline Validation When Offline Validation Reconfigure to commendation 	tion is successful, click	

LDAP with Keystone v3	Domain Name field	Enter the 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 port number.
	Domain Name for Bind User field	Enter a string.
	Password field	Enter Password as string format.
	User Filter	Enter filter name as string.
	User ID Attribute	Enter a string.
	User Name Attribute	Enter a string.
	User Mail Attribute	Enter a string.
	Group Name Attribute	Enter a string.
	 Click Offline Validation When Offline Validation Reconfigure to commer 	is successful, click

NFV Monitoring	Followings are the field valu	es for NFV Monitoring:
	Master Admin IP field.	Enter Input as IP format.
	Collector Management IP field	Enter Input as IP format.
	Collector VM1 info	
	Host Name field	Enter Host Name as a string.
	CCUSER password field	Enter Password.
	Password field	Enter password.
	Admin IP field	Enter Input as IP format.
	Management IP field	Enter Input as IP format.
	Collector VM2 info	
	Host Namefield	Enter a string.
	CCUSER field	Enter Password.
	Management IP field	Enter Input as IP format.
	Dispatcher	
	Rabbit MQ Username Field	Enter a string.
	Click Offline Validatio	n .
	When Offline Validation Reconfigure to comment	
VTS Parameter	Following are the fields to rea	configure for VTS parameters
	VTC SSH Username field.	Enter the string.
	VTC SSH Username field.	Enter the password.
	Click Offline Validatio	n.
	When Offline Validation Reconfigure to comment	

VMTP	Check one of the check box	es to specify a VMTP network:				
	Provider Network					
	• External Network					
	For the Provider Network c	For the Provider Network complete the following:				
	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.				
	For External Network fill	in the following details:				
	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.				
	 Click Offline Validati When Offline Validation Reconfigure to common 	on is successful, click				

I

Netwo	rking	To reconfigure networking, update the relevant information			
	onfigure optional services networking, you can gure IP tables, or add http_proxy/https_proxy.	IP TablesClick Add(+) to a Enter input as subr E.g. 12.1.0.1/2			
		http_proxy_server Enter HTTP_PROXY_SE			
			E.g. <a.b.c.d:port></a.b.c.d:port>		
		https_proxy_server	Enter HTTP_PROXY_SERVER		
			E.g. <a.b.c.d:port></a.b.c.d:port>		
		• Click Save.			
		Click Offline Valida	tion.		
		• When Offline Validation is successful, click Reconfigure to commence the process.			
APICI), follow the process:				
Note	Reconfigure optional services only APIC hosts can be reconfigure.	• Enter input for APIC or eg.12.1.0.12	hosts format. <ip1 host1>:[port]</ip1 host1>		
		Click Save.			
		Click Offline Valida			
		When Offline Validat Reconfigure to comr	-		
		Note APIC hosts can and max 3 but n	be reconfigure minimum 1 host ot 2 hosts.		
Vim_a	dmins	To reconfigure vim_admir	ns, follow the process:		
			er, Click + and add the Username word (Starting with \$6).		
		• To remove the existin	ng user, Click		
		When Offline Validat Reconfigure to comr			

Pod User Administration

Cisco VIM UM offers Users (Pod Admins or Pod Users) to manage Users and roles that are associated with them.

Managing Roles

User can create multiple Roles and assign them to other pod users. System has a default role that is named as Full-Pod-Access which is assigned to the person who registers the Pod.

Manage Roles

CISCO VIM Unified I	Managen	nent	Celsoft 10.30.116.244	Role: Full-Pod-Access U	ser ID: rohan	~ 0
Dashboard Pre-Install	¢	Manage Roles			N	ad Role
Post-Install	¢	Role Name	~ Description		* Action	v
View Topology		Full-Pod-Access	is Admin		1	×
Pod User Administration	~	Manage Users	Can only manage Users and their ro	pies	1	×
Manage Roles Manage Users Manage Root CA Certificate			tems per page			

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

Field Name	Field Description
Role	Enter the name of the role.
Description	Enter the description of the role.
Permission	Check the Permission check box to select the permission.
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 the granular level where viewing Dashboard is the default role that is implicitly added while creating a role.
- **Note** Permissions are divided in the granular level where viewing **Dashboard** is the default role that is implicitly added while creating a role.

Managing Users

This section allows you to add the users. It shows all the users associated with the Pod. You can check the online status of all the user. Click**Refresh** on upper right corner to check the status.

cisco VIM Unified	Managerr	bent		Celso 10.30	n 116.244 🔷 ~				Role: Full-Pod-Access	User	Dt rohashar	•
Dashboard										Refresh	Add U	ker
Pre-install	*	Manage Users							Record last	updened at	05/04/2018	14:58:25
Post-Install	×.	User Name	Email ID	۷	Role Name	¥	Is Registered	÷	Online	÷	Action	
View Topology		Rohan R	rohashar@cisco.com		Full-Pod-Access		YES		Online		10	
Pod User Administration Manage Roles	×	Aniket C	achothe@cisco.com		Manage Users		NO		Offine		1 0	
Manage Users		14 4 1 /1 F	Filens per p	age								
Manage Root CA Certificate												

To add a new user:

- Step 1 Click Login as POD User.
- Step 2 Navigate to POD User Administration and click Manage Users .
- **Step 3** Click **Add Users** to add a new user.
- Step 4 Complete the following fields in the Add Users pane 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 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.

Revoke Users

User with Full-Pod-Access or Manage Users permission can revoke other users from the specific Pod. To revoke users:

- **Step 1** Click Undo icon. A confirmation pop up will appear.
- **Step 2** Click **Proceed** to continue.

Note Self revoke is not permitted. After revoking the another user, if the user is not associated with any other pod then the revoked user will be auto deleted from the system.

Edit Users

User with Full-Pod-Access or Manage Users permission can edit other user's permission for that specific Pod. To edit user's permission

- Step 1 Click Edit icon.
- **Step 2** Update the permission.
- **Step 3** Click **Save**. The Grid will get refreshed automatically.

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.

	Manage Root CA Certif	leate			
Pre-install <	Manage Root CA Certin				
Post-instalt <					
View Topology	Root CA Certificate Informat	ion	*		
www.ropology	Country Name	US			
Pod User Administration ~	State/Province Name	California			
Manage Roles	Locality Name	San Jose			
Manage Users	Organizational Unit Name	n			
Manage Root CA Certificate	Issued By	10.30.116.244			
	Issued To	10.30.116.244			
	Expiry Date	2021-03-28 10:39:26			
	Upload New Root CA Certifi	cate			
	Upload New Root CA Certifi		and Update		
	Upload New Root CA Certifi		and Upstane		
	Upload New Root CA Certifi		and Update		
	Upload New Root CA Certifi		and Update		

To update the Certificate:



- 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 reverts the certificate which was working previously.
 - If the Certificate is valid, Insight runs 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.