

Installing Cisco VIM through Cisco VIM Unified Management

The VIM UM 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:

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Unified Management Dashboard

When you login as UM admin, you will be redirected to the UM admin Dashboard.

enco VIM Unified Mar	nagement			User ID: rohashar	۰
Desitionand	Dashboard				
006	Pods Status	20 8 12	Users	5 4 1	
00-Users		Total Active Inactive		Total Registered Active	
D Administrations					
Administrations				Search Pod Name/ IP / Locaton ID,	c
	Disease and	Ravi's POD	Daney MEUDErich	MultFa	
	Dannys pod 10 23 221 180	172.31.231.17	Danny NFVBEnch (72.28.87.212	172.23.105.25	
	Pure	Pure	pune	Pune	
	✓ Reachable	× Unveachable	× Unreactable	✓ Reachable	
	Total Libers 1	Total Listers 1	Total Users 1	Total Losers 1	
	Active Lisers 6	Active Uters 0	Active Users 0	Active Coard 10	
	Danny's pod	Champage TB	Cologne	Jeevan	
	10.30 117 238 gure	172.23.105.213 San Jose	172 29.86.10 Pune	172.26.123.20+ Pure	
	× Unveachable	🖌 Reachable	× Unreachable	× Urveschable	
	Total Loans 1	Total Lowis 1	Total Lowis 1	Total Loans 1	

The UM dashboard displays the following information about the pods it is currently managing:

Pod Status

- Active Number of Pods which has health status OK (Example: Mgmt Node health of the pod is good).
- Inactive Number of Pods whose health status is not good (Example:. Mgmt Node health of the pod is not good).
- Total number of Pods Number of Pods registered in the system.

Pod Users

- Total Total number of users registered who are associated with at-least one Pod.
- Registered Number of users who have completed the registration process and are associated with at-least one Pod.
- Active Number of Online users who are associated with at-least one Pod.

You can see the list of Pod with its Pod name, description, IP address, location, Pod status along with the Total users and Active users of each pod. You can search for a Pod using Name, IP and location in the search option.

If you click Get health of current nodes icon (spin) it does the health check of the Pod.

Pods

Pods allows you to check the health status (indicated through green and red dot) of the pod respectively.

To fetch the latest health status, click Refresh which is at the upper right corner.

• Green dot – Pod is reachable and health is good.

• Red dot – Pod is not reachable.

Pod Users

The Pod Users page, gives you the details associated the pod, status (Online or Offline) and their Roles.

UM admin has the right to manage all Pod users in the system. The user with UM admin access can manage the following actions:

- Revoke User's permission from a specific Pod.
- Delete User from the system.

cisco VIM Unified Man	lagement					User ID: ro
Dashboard PODS	Registered POD	Users			Record	l last updated at : 04/
POD Users	User Name	≚ Email	V IP Address	V Role Name	~ Online	× Act
POD Administrators	Rohan R	rohashar@cisco.com	10.30.116.244	Full-Pod-Access	Online	0
UM Administrators	Rohan R	rohashar@cisco.com	172.28.123.204	Full-Pod-Access	Offline	c
	Rohan R	rohashar@cisco.com	10.30.117.238	Full-Pod-Access	Offline	0
	Rohan R	rohashar@cisco.com	10.23.229.228	Full-Pod-Access	Offine	0

Revoking User

UM admin revokes the user's permission from a Pod by clicking (undo) icon. If the user is the only user with a Full-Pod-Access role for that particular Pod, then the revoke operation is not permitted. In this case, another user is granted with a Full-Pod-Access role for that Pod and then proceeds with revoking the old user.

Note

If the user is revoked from the last associated Pod, then the user is deleted from the system.

Deleting Users

UM admin can delete any user from the system by clicking **X** from an Action column. The delete operation is not permitted if the user has Full-Pod-Access. In, such case another user is granted with *Full-Pod-Access* role for that Pod and then proceed with deleting the old user. UM admin must revoke respective permission first and then proceed further.

Pod Administrator

Pod admins are the users who has the permission to register new Pods in the system. UM admin can add any number of Pod admins in the system.

cisco VIM Unified Ma	nagement		User ID: rohashar 🏼 🏠 🗸
Dashboard PODS	POD Administrators		Refresh Add Pod Administrator Record last spoked at : 04/04/2018; 16/07.15
POD Users	User Name	✓ Email	× Action ×
POD Administrators	Rohan R	rohashar@cisco.com	0
UM Administrators	Aniket C	achothe@cisco.com	c
	H	terns per page	

Adding Pod Admin

- **Step 1** Log in as **UI Admin** and navigate to POD Administrator page.
- Step 2 Click Add Pod Administrator .
- **Step 3** Select User auth for the new user. This option is enabled only if LDAP mode is true.
- **Step 4** Enter the Email ID/LDAP user id (if LDAP user attribute is set to uid) of the user.
 - If the email is already registered, the Username gets populated automatically.
 - If the email is not registered, an email is sent to the user email ID with the verification token. If User auth is set as LDAP, no verification token email is sent.
- **Step 5** Navigate to https://br_api :9000.
- **Step 6** Enter the **Email ID** and **Password** of the Pod Admin
- Step 7 Click Login as Pod User. It redirects to the landing page where the Pod admin can register a new Pod.

Revoking Pod Admin

UM admin can revoke Pod admin's permission anytime. To revoke Pod admin permission for the user, click **undo** icon.



Note

You cannot revoke self permission.

Unified Management (UM) Administrator

UM admins have the access to the UM profile. Only a UM admin can add another UM admin in the system. There should be at least one UM admin in the system.

cisco VIM Unified Ma	inagement			User ID: rohashar 🛛 🗘 🗸
Dashboard PODS	UM Administrators			Refresh Add UM Administrator Aecord last updated at: 04(04/2018; 16:18:45
POD Users	User Name		* Online	≚ Action ≚
POD Administrators	Rohan R	rohashar@cisco.com	Online	0
UM. Administrators		≥] 5 → items per page		

Adding UM Admin

To add a UM admin perform the following steps.

- **Step 1** Log in as **UI Admin** and navigate to UM Administrator page.
- Step 2 Click Add UM Administrator.
- **Step 3** Select User auth for the new user. This option is enabled only if LDAP mode is true.
- **Step 4** Enter the Email ID/ LDAP user id (if LDAP user attribute is set to uid) of the user.
 - If email is already registered, the Username gets populated automatically.
 - If email is not registered, an email is sent to the user email ID with the verification token. If User auth is set as LDAP, no verification token email is sent.
- **Step 5** Navigate to https://br api: 9000.
- **Step 6** Enter the Email ID and Password of the UM Admin.
- **Step 7** Click Log in as UM admin to view the UM dashboard.

Revoking UM Admin

UM admin can revoke another UM admin's permission. To revoke UM Admin permission for any user, click **undo** icon.



Note

You cannot revoke a self's permission. You can revoke a user if the user is not associated with any pod. After, revoking the user is deleted from the system.

Registering New Pod to Insight

Following are the steps that are required for UI Admin to register a Pod Admin:

Before you begin

UI Admin has to register a Pod Admin to allow the user to access a pod.

- **Step 1** Log in as **UM Administrator**.
- **Step 2** Navigate to Pod Administrator and click Add Pod Admin.
- **Step 3** Enter the Email ID and the Password of the Pod Admin and click Login as Pod User. Then, you will be redirected to the landing page.
- Step 4 Click Add New Pod to register a Pod. The Add New Pod popup window appears on the screen.

		(A)		User ID: rohashar	••
• Summary	Add New Pod				
	Endpoint IP Address *	Enter End Point IP			
	Management Node Name *	Enter Management Node Name			
	User Name *	admin			
	Rest Server Password *	Enter Rest Server Password			
	Location *	Errer Location		Add New Pod	
	Description	Description			
	Management Node Administratio	n			
	Root CA Certificate *	Upload Root CA Certificate	Browse Upload Devalicase		
			Register Can		
			Can	CRI	

- **Step 5** Enter the br_api of the pod management node as the **Endpoint IP Address** and **Rest Server Password** from the file /opt/cisco/ui_config.json.
- **Step 6** Enter the values for the remaining fields in Add New Pod.
- **Step 7** Click **Browse** to select the Root CA certificate.

For more information on Root CA certificate, see Managing Root CA Certificate

- **Step 8** Click **Upload Certificate** to upload the selected Root CA certificate.
- **Step 9** Click **Register** to start the Pod registration.

The newly created Pod appears on the landing page.

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 pane of the Cisco VIM Insight, complete the following fields:

Dashboard Pre-Install		Create Blueprint	configuratio	'n			Save Form Offline Valida	tion Clear
Blueprint Setup		Provide Land						
Blueprint Management		Blueprint Initial Setup	Physical Setup	OpenStack Setup				
Post-Install	۰.	Blueprint Name: *				Platform Type: *		
New Topology		Enter Blueprint Nam	0			8-series		
		Tenant Network: *			POD Type *		0	
Pod User Administration		LinuxBridge/VXLAN				Fullon		
		Object Storage Backs	nd *					
		Central						
		Optional Features & Systop Export Set Pod Name Heat Kauto Backup Keystone v3		ES_REMOTE_BACKUP Vim Admins Nihbench LDAP TLS		NFVI Montoring Index Esc Priv TORSwitch Information VMTP	Swiftstack Install Mode Permit Root Login INETAPP_SUPPORT	
		Import Existing VAM	. fie	Browse	Load			

Name	Description
Blueprint Name field	Enter blueprint configuration name.
Platform Type drop-down list	 Choose one of the following platform types: B-Series (By default) choose B series for this section. C-Series
Tenant Network drop-down list	Choose tenant network type: OVS/VLAN

Name	Description
Pod Type drop-down list	Choose one of the following pod types:
	• Fullon(By Default)
Ceph Mode drop-down list	Choose one of the following Ceph types:
	• Dedicated
	• Central (By Default) - Not supported in Production
Optional Features and Services Checkbox	Swiftstack, LDAP, Syslog Export Settings, Install Mode, ToR Switch Information, TLS, NFVMON, Pod Name, VMTP, NFV Bench, Auto-backup, Heat, Ceilometer, Keystone v3, Enable Esc Priv, Enable TTY logging, SNMP, ManagementNode_CloudAPI_Reachability.
	If any one is selected, the corresponding section is visible in various Blueprint sections. SNMP requires CVIM-MON to be enabled.
	By default, all features are disabled except Auto-backup and Management Node_CloudAPI_Reachability.
	Select Enable Read-only OpenStack Admins to add a custom role with read-only admin privileges to OpenStack resources.
Import Existing YAML file	Click Browse button to import the existing yaml file.
	If you have an existing B Series YAML file you can use this feature to upload the file.
	Unified Management automatically fill in the fields and if any mandatory field is missed then it gets highlighted in the respective section.

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

Cisco VM Unified	i Manageme	nt Celeoft O'Y		Role: Full-Pod-Access User ID: inherhor 🏠
Dashboard Pre-instal		Create Blueprint configuration		Save Form Office Websiton Clear
Bueprint Setup Biveprint Management Post-Instal View Topckogy		Burghine Initial Setup Physical Setup OpenStack Setup X Regulary Lessy X CANC Common X Networking X Servers and Roles		
Pod User Administration	1	Registry User Name * Error regiony Username Registry Ernal * Error regiony emult	Registry Password * Enter registry password	0

Name	Description
Registry User Name text field	Enter the User-Name for Registry (Mandatory).
Registry Password text field	Enter the Password for Registry (Mandatory).
Registry Email text field	Enter the Email ID for Registry (Mandatory).

Once all mandatory fields are filled the Validation Check Registry Pane shows a Green Tick.

3. Click UCSM Common Tab and complete the following fields:

ahaha CISCO	VIM Unified Managemen	ti Calkoft 10.2011/6.244	~		Balac Full-Pod-Access	User D: schedur	•
Dashboard Pre-Install		Create Blueprint configuration			Save Form Office	Weldation Crear	
Bueprint Bueprint Post-Install View Topolog	t Management	Buspret Initial Setup Physical Setup OpenStack Setup X Regulary Setup X LCOM Common X Retworking X Servers and Role					
Pod User Ad		User name *		Password *		0	
		UCBM P*	۰	Resource Prefix * Resource Prefix		۰	
		QOS Policy Type NPA		Max VII Count * 20		0	
		Enable VF Performance III	0	Enable Prov R PIN D		0	

Good account a similarity, and rights interface. Crace VM United Management Vensor: 2.2.2			
Name	Description		
User name disabled field	By default the 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:		
	• NFVI (Default)		
	• Media		

Name	Description
Max VF Count text field	Select the Max VF Count.
	<1-54> Maximum VF count 54, default is 20.
	If VF performance is enabled we recommend you to keep 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.
Enable Prov FI PIN optional checkbox	Default is false.
MRAID-CARD optional checkbox	Enables JBOD mode to be set on disks. Applicable only if you have RAID controller configured on Storage C240 Rack servers.
Enable UCSM Plugin optional checkbox	Visible when Tenant Network type is OVS/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.
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 such as Add, Delete, Edit and, Multiple Delete.

4. Click **Networking** to advance to the networking section of the Blueprint:

-install		Create Blueprint o	configuration					Save	Form Offine Validatio	- 4
Bueprint Setup	*	create biocpinite								
Bueprint Management		Biueprint Initial Setup	Physical Setup ComSta	a Setup						
-install	-	and a sub-		or or op						
Topology		🗙 Registry Setup	¥ UCSM Common	R Annuala	Servers and Ro	es				
ther Administration		Domain Name : *								0
		Enter Domain Name								
		HTTP Proxy :				HTTPs P	moky :			
		Enter HTTP Proxy				Enter I	ct this Proxy			
		IP Tables on Manager	ment Pods :	• = +	NTP Server : *		• = +	Domain Name Server : *	0 8	+
		P Address	Ψ.	Action ~	NTP server		* Action *	DNS server	 Action 	÷.
		14 4 1	11 P P		H + 1 /1	F H		H + 1 /1 +	н	
		Networks *								+
		- Van	* Segnent *	Subnet	* Subnet Pv6	Gateway	* Gateway Pv6	· Pool · Pool		
			cime						/	×
			api						/	×
			management/provis						/	×
			tenant						/	×
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Name	Description
Domain Name field	Enter the domain name (Mandatory).
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.
IP Tables on Management Pods	Specifies the list of IP Address with Mask.
NTP Server	Enter a maximum of four and minimum of one IPv4 and /or IPv6 addresses in the table.
Domain Name Server	Enter a maximum of three and minimum of one IPv4 and/or IPv6 addresses.

Name	Description
Network options	This section is accessible only if ToR type is Cisco NCS 5500.
	vxlan-tenant:
	• Provider network name: It is a unique name.
	• BGP AS num: Takes value between 1 and 65535.
	• BGP Peers: Enter the peer route reflector IPs (IPs to be comma separated)
	• BGP router ID: The router ID is used for local GoBGP cluster.
	• Head-end replication (Optional) : You can add VTEP IP address and comma separated VNI IDs. Multiple entries are allowed.
	Note VXLAN-TENANT is allowed only when NETWORK_OPTIONS is vxlan network. The IPs defined belong to the vxlan-tenant network, but are not part of the vxlan-tenant network pool.
	VXLAN-ECN:
	• Provider network name: It is the unique name.
	• BGP AS num: It takes the value between 1 and 65535.
	• BGP Peers: Enter the peer route reflector IPs. (IPs to be comma separated)
	• BGP router ID: The router ID is used for local GoBGP cluster.
	• Head-end replication (Optional) : You can add VTEP IP address and comma separated VNI IDs. Multiple entries are allowed.
	Note • You cannot have VXLAN-ECN without vxlan-tenant segment defined, however vxlan-tenant can be defined standalone.
	• Ensure that you take care while choosing single or multi-VXLAN (two-VXLAN) option as this is a day-0 configuration.
	• VXLAN_ECN is allowed only when NETWORK_OPTIONS is vxlan network. The IPs defined belong to the vxlan-ecn network, but are not part of the vxlan-ecn network pool.

Name	Description
Network table	

Description	
Networks you can either of All or click Edit icon for details.	ulated with segments. To add clear all the table using Delete each segment and fill in the te network information in the
Edit Network	
VLAN: * Enter VLAN Segment : *	0
Nove: Solociad + Subret : *	
Enter Subnet IPv6 Subnet :	
Enter Statuet IPv6 Gateway *	
Enter Ganeway Address Pv6 Gateway :	
Enter Gateway Address(PvK) Pool : * (nutper point anges should be comme apprended)	0
Enter IP Post IPv6 Post : (Notice and require shadd be come separated Enter IPv6 Post	•
• Click + to enter new	entries (networks) to the table.
• Click + to enter new	g fields in the Edit Entry to
 Click + to enter new Specify the followin Networks dialog box 	g fields in the Edit Entry to x.
 Click + to enter new Specify the followin Networks dialog box 	g fields in the Edit Entry to x. Description
 Click + to enter new Specify the followin Networks dialog box 	g fields in the Edit Entry to x. Description Enter the VLAN ID. For Segment - Provider, the VLAN ID value is always <i>none</i> .
Click + to enter new Specify the followin Networks dialog box Name VLAN field	g fields in the Edit Entry to x. Description Enter the VLAN ID. For Segment - Provider, the VLAN ID value is always <i>none</i> . You can select any one segment from the
Click + to enter new Specify the followin Networks dialog box Name VLAN field	g fields in the Edit Entry to x. Description Enter the VLAN ID. For Segment - Provider, the VLAN ID value is always <i>none</i> . You can select any one segment from the drop-down list.
Click + to enter new Specify the followin Networks dialog box Name VLAN field	g fields in the Edit Entry to x. Description Enter the VLAN ID. For Segment - Provider, the VLAN ID value is always <i>none</i> . You can select any one segment from the drop-down list. • API
Click + to enter new Specify the followin Networks dialog box Name VLAN field	g fields in the Edit Entry to x. Description Enter the VLAN ID. For Segment - Provider, the VLAN ID value is always <i>none</i> . You can select any one segment from the drop-down list. • API • Management/Provision
 Click + to enter new Specify the followin Networks dialog box Name VLAN field 	g fields in the Edit Entry to x. Description Enter the VLAN ID. For Segment - Provider, the VLAN ID value is always <i>none</i> . You can select any one segment from the drop-down list. • API • Management/Provision • Tenant

 Description	
Name	Description
	Provider (optional)
	Note Some segments do not need some of the values listed in the preceding points.
Subnet field	Enter the IPv4 address for the subnet.
IPv6 Subnet field	Enter IPv6 address. This field is available only for Management provision and API.
Gateway field	Enter the IPv4 address for the Gateway.
IPv6 Gateway field	Enter IPv6 gateway. This field is available only for Management provision and API network.
Pool field	Enter the pool information in the following 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 following format. For example: 101.1.5-101.1.10,102.1.5-102.1.10 This field is only available
	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 see a pre-populated table filled with Roles: Control, Compute and Block Storage (Only if CEPH Dedicated is selected in Blueprint Initial Setup.

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<pre>webded we data is not in the Riscopy out the Administration</pre>	VIM Unified	Management				Cals 10.3	0.116.244					lale: Full-Pod-Access		
Busperter Management a visual a visual <t< th=""><th></th><th>~</th><th>Create Bluep</th><th>rint configuration</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>we Form Offline V</th><th>andation</th><th>•</th></t<>		~	Create Bluep	rint configuration								we Form Offline V	andation	•
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Server Name Server Type Rack ID Clearsis D Blade BD Rack unit D Rale Control Management P Management			× Registry	Senip 🗙 UCSM Co	mmon X	Networking	Servers and Roles							
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Control Kickstart* O Compute Kickstart* uts-to-and-c-terfies.ks • uts-to-and-c-terfies.ks Server Host Passeord* • • Enter Server Host Passeord* • • Server Name * Server Type * Rack ID * Chassis ID * Blade ID * Rack unit ID * Role * Management IP* * Management IP*, * V Blade • • • •			Cobbler Timeo	ut.				•	Block Storage Kicksta	· .				
Server Note Password* uttr-to-and-c-series ks Enter Server Note Rokes :* * * Server Name * Server Type * Rack ID * Chassis ID * Blade ID * Rack unit ID * Role * Management IP * Management IP * * Server Name * Server Type * Rack ID * Chassis ID * Blade ID * Rack unit ID * Role * Management IP * Management IP * * blade control			45						ucs-b-and-c-serie	5.85				,
scs-b-and-c-series.ks ucs-b-and-c-series.ks Server Host Password* or Exter Server Host Password* Image: Control Additional Additiona Additiona Additional Additional Additional Additiona Additiona			Control Kickata	n				0	Compute Kickstert *					
Citter Server Host Plassword Server and Roles : * ▲ Server Name * Server Type * Raok ID * Blade ID * Raok unit ID Role * Management IP* Management IP			ucs-b-and-	c-sedes.ks						s.ks				
Citter Server Host Plassword Server and Roles : * ▲ Server Name * Server Type * Raok ID * Blade ID * Raok unit ID Role * Management IP* Management IP			Samer Most Ro	* transm										
Server and Roles : * ▲ Server Type Raok ID Chassis ID Blade ID Rack unit ID Role Management IP* Management IP* *														
Server Name Server Type Rack ID Cheasis ID Blade ID Rack unit ID Role Management IP Management IP V Diade Diade Centrol Control														
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blade control			Server N	iame " Server Type	* Rack ID	* Chessis ID	" Blade ID		" Rack unit ID '	Role	* Management IP	Management Pv.:	Action	
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tilude compute				blade						compute			1 1	ĸ.
			10000 0000											

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

Name	Description	Description				
Cobbler	Enter the Cobbler details in	the following fields:				
	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 must 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
Add Entry to Servers and Roles	

Name	Description	Description		
		Click Edit or + to add a new server and role to the table.		
	Jerver And Notes			
	Server Name *	0		
	Enter Server Name			
	Enter VIC Slot			
	CIMC IP *	0		
	Enter CIMC IP Address			
	CIMC User Name			
	Enter CIMC Usemame			
	CIMC Password	0		
	Enter CIMC Password			
	Rack ID *	0		
	Enter Rack ID			
	Role *			
		•		
	Management IP Enter Management IP Address	0		
	Management IPv6	9		
	Enter Management IPv6 Address			
	Save Cancel			
	Server Name	Enter a server name.		
	Server Type drop-down list	Choose Blade or Rack from the drop-down list.		
	Rack ID	The Rack ID for the server.		
	Chassis ID	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 .		
	VIC Admin FEC mode	Applicable only for Cisco		

ne	Description	
		VIC that supports to change the admin FEC mode.Can be auto/off/cl74/cl91
	VIC Port Channel Enable	Optional. By default, it is true. Can be either true or false.
	Secure Computing mode	Optional. By default, it is set to 1, if not defined. Can be either 0 or 1.
	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.
	Storage IP	It is an optional field, but if provided for one server then it is mandatory to provide details for other servers.
	Management IPv6	Enter the Management IPv6 Address.
	Vtep IPs	Two input fields for vxlan-tenant and vxlan-ecn ips are available, for any node having compute role, vxlan-tenant and vxlan-ecn in network option.
	BGP management addresses	Two input fields for vxlan-tenant and vxlan-ecn ips, are available for any node having control role and having vxlan-tenant and vxlan-ecn in network option.
		IPs must be from management subnet, but not from the pool.
	trusted_vf	Optional and not reconfigurable. Applicable only for SRIOV node with compute role for C-series pod.

Name	Description
	Click Save.

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 when all the fields are filled it is a part of the Blueprint.

cisco VM Unified Mar	agoment		Calloft 10.30110.244		Role: Full-Pool Access	User ID: rohad	- 0
Control VM Unified Mar Controls Pre-textal Dispetit Sexp Dispetit Sexp Dispetit Sexp Dispetit Management Post-textal Vew Topology Pod User Administration	Create Blue Burgeire Indur K Region Configur Torfaulige I	en TOR Information ; *		VPC peer p" VPC peer V" Bit mg	Save Form	niktorion C	
			518 Coco and/or its affiliates. All rights reserved. Cisco VMI United Management Version: 2.2.2				

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.	

Description	
Click (+) to add information	on for ToR Switch.
Switch Details	
Hostname *	0
Enter Switch Hostname	
Username *	0
Enter Switch Username	
Password *	0
Enter Password	
SSH-IP * Enter IP Address	0
SSN Num Enter SSN Num	0
VPC Peer Keepalive	0
Enter IP Address	
VPC Domain	0
Enter VPC Domain	
VPC Peer Port Info	0
Enter VPC Port	
VPC Peer VLAN Info	0
Enter VPC VLAN Info	
BR Management Port Info	0
Enter BR Port Info	
BR Management PO Info	0
Enter BR PO Info	
Name	Description
Hostname	ToR switch hostname.
Username	ToR switch username.
Password	ToR switch password.
SSH IP	ToR switch SSH IP Addr
SSN Num	ToR switch ssn num.
VPC Peer Keepalive	Peer Management IP. You not define if there is no p

Name	Description		
	VPC Peer Port Info	Interface for vpc peer ports.	
	BR Management Port Info Management interface of the management node.		
	BR Management PO Info Port channel number for management interface of the management node.		
	ClickSave.		
On clicking save button, Add ToR Info Connected to Fabric field is visible.	Port Channel field.	Enter the Port Channel input.	
	Switch Name field.	Enter the name of the Switch.	

7. Click NFVI Monitoring checkbox in Blueprint Initial Setup to enable the NFVI Monitoring configuration tab.

Dashboard	Create Blueprint configuration Citie Value	eion Des
Pre-Install c	Create Bloegrint Comparation	
Poet-Instal c	Disaprint Imital Setup Physical Setup OpenStack Setup	
View Topology	X Registry Setup X UC3M Common X Networking X Servers and Rates X MVM. Common	
Pod loss Administration 4	A registration A construction A without a street are used	
	Master 💩 Agean IP. 1	0
	Adria B	
	Collector Management VP: 1	0
	Managaman VP	
	Collector VM Into *	
	Host Name "Password " Cosser Password " Admin # " Management # " Admin	otion ~
	No sata avarable	
	N A T K N	
	Dispatcher Rubbit MC User Norme: *	0
	Name ALC User Name	
	NFVMON Admin	0
	Acres Kane	
	ALCO MARK	
	Zenosa secondary NFM-MON MASTERICOLLECTOR into	~
	Maeter 2	Gen M
	Admin IP:	0
	Adres P	
	Collector 2 Management VIP:	0
	Munigereent VP	
	Collector VM tells	+
	Host Name * Persevent * Count Persevent * Admin IP * Management IP * Ad	tion ~
	No Safa available	
	(a) (a) (b) (b) (b)	

Name	Description
Master - Admin IP	IP Address of Control Center VM
Collector - Management VIP	VIP for ceilometer/dispatcher to use, must be unique across VIM Pod
Master 2	Optional, but becomes mandatory if collector 2 is defined. Must contain valid admin IP.
Collector 2	Collector 2 is secondary set of collector. All the properties must be present as collector. Optional, but becomes mandatory if Master 2 is defined. Contains management VIP and collector VM information.
NFVIMON ADMIN	Optional and reconfigurable to add/update user id. Once enabled, you must have only one admin.

I

Name	Description		
Host Name	Hostname of Collector VM		
Password	Password of Collector VM		
CCUSER Password	Password of CCUSER		
Admin IP	SSH IP of Collector VM		
Management IP	Management IP of Collector VM		
Collector ToR Connections	1. Click on (+) icon to Add Collector ToR Connections.		
	 2. Select the ToR switches from list to add the information. 3. It is optional and available for ToR type NCS-5500 4. For now, it supports adding only one Collector ToR Connection 		
	Port Channel En	nter port channel.	
		nter port number, .g:eth1/15.	
	Click Save		
Rabbit MQ User Name	Enter Rabbit MQ username.		

8. Click CVIMMON option in Blueprint Initial Setup to enable the CVIMMON configuration tab.

65									
print Initial Setup	Physical Setup	OpenStac	k Setup						
X Registry Setup		Common	X Network	ing	> 1	C Servers and Roles	V CVI	IMON	
able 🔟									
Access True •	0								
ling Intervals									6
Low Frequency		1		m	•				
Medium Frequenc	У	30		5.	.*				0
High Frequency		15		15					

CVIM-MON is a built-in infrastructure monitoring service based on telegraf/prometheus/grafana.

When enabled, the telegraf service will be deployed on every node on the pod to capture infrastructure level stats (CPU, memory, network, containers, and so on) and a Prometheus server will be installed on the management node to poll for these stats and store them in its time series database. The statistics can then be viewed using the grafana server that is accessible on the management node at port 3000 (password protected).

There are three levels of polling intervals which are used by different telegraf plugins:

- Low frequency interval is used to collect system level metrics like cpu, memory
- Medium frequency interval is used to collect docker metrics
- High frequency interval is used to collect rabbitmq metrics

Defining polling intervals in setup data is optional, if not defined the default values will be used

Name	Description
Enable	Default is False
UI-Access	Indicates either True or False. If this option is set in setupdata with a value, the same value is shown as selected in the drop-down list. If this option is not set in the setupdata, the default value of True is selected in the drop-down list.
Central	Optional, if not defined it will default to False; With this option enabled, User will get central CVIM-MON
Polling Intervals	
Low frequency - deprecated	<pre><integer (s="" following="" h)="" m="" sign="" time="" with=""> # min of 1 minute (1m) if not defined defaults to 1m, also it needs to be higher than medium interval.</integer></pre>

Name	Description
Medium frequency - deprecated	<integer (s="" following="" h)="" m="" sign="" time="" with=""> # min of 30 seconds (30s) if not defined defaults to 30s, also it needs to be higher than high interval.</integer>
High frequency	<integer (s="" following="" h)="" m="" sign="" time="" with=""> # min of 10 seconds (10s) if not defined defaults to 10s.</integer>

While CVIM-MON checkbox is checked in Blueprint Initial setup, there is a checkbox provided in the CVIM-MON tab area for enabling the SNMP feature. When user check this enable SNMP checkbox, Add a Manager button appears in the right area.

Clicking on this button shows various fields related to that manager. User can add up to three SNMP managers.

Name	Description
Address	IPv4 or IPv6 address of the remote SNMP manager, unique across all managers
Port	Port (1-65535) to sent the traps; default 162, unique across all managers
Version	SNMP version of the manager; default 'v2c'
Community	For SNMPv2c. Community name; default 'public'
Engine_Id	For SNMPv3. ContextEngineId, min length of 5, max length of 32, unique across all managers; cannot we all 00s or FFs
Users	List of users; maximum: 3
Name	Username has to be unique across users for the same manager
auth_key	Need to be min of 8 chars
authentication	Authentication protocol; default: 'SHA'
privacy_key	Encryption password; by default uses the same as the authentication
encryption	Encryption protocol ; default: 'AES128'

If CVIM-MON is enabled and Platform type is C, then an optional feature to get SNMP traps from Cisco CIMC is available in the CVIM-MON tab area. With this new feature SERVER_MON, there is a checkbox to enable or disable this feature and an input field to provide host information. You can either add comma separated server information or can have ALL to include all the servers.

Table 1:

Name	Description
Enable	True/False

Name	Description
Host information	ALL or list of servers.
Remote syslog severity	Optional. Indicates if cimc is programmed to send rsyslog events with this minimum severity.
	Possible syslog severity values are: <'emergency' 'alert' 'critical' 'error' 'warning' 'notice' 'informational' 'debug'>. These are optional and values can be changed.

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

Name	Description		
HA Proxy	Fill in the following details:		
	Create Blueprint configuration		
	Biueprint Initial Setup Physical Setup Open	Stack Setup	
	🗙 HA Proxy 🗸 Keystone 🛛 🗙	Neutron V CEPH V Glance V Cin	der
	External VIP Address * Enter IP Address Virtual Router ID * Enter Virtual Router ID Internal VIP IPv6 Address	0	Internal VIP IPv6 Enter IP Addre Internal VIP Addre Enter IP Addre
	Enter IPv6 Address		
	External VIP Address field	Enter the IP address of the External VIP.	
	External VIP Address IPv6 field	Enter the IPv6 address of the External VIP.	
	Virtual Router ID field	Enter the Router ID for the HA.	
	Internal VIP Address IPv6 field	Enter the IPv6 address of the Internal IP.	
	Internal VIP Address field	Enter the IP address of the Internal VIP.	

ame	Description	
Leystone	The following are the Pre-populated field values. This option is always set to be true.	
	Create Blueprint configuration	
	Blueprint Initial Setup Physical Setup OpenStack Setup	
	🗙 HA Proxy 🗸 Keystone 🗙 Neutron 🗸 CEPH 🗸 Glance 🗸 Cinder	
	Admin Usemame * Admin Ter	nant Name
	admin admin	
	Enter VY5ue Router ID Enter	r IP Address
	Internal VIP IPv6 Address O	
	Enter IPv6 Address	
	Admin Username field admin	
	Admin Tenant Name field admin	

Name	Description
LDAP (Only if Keystonev3 is enabled)NoteThis option is only available with Keystone v3	

Name	Description			
	This is available only when LE Features and Services in Blue		onal	
	Create Blueprint configuration			
	Blueprint Initial Setup Physical Setup Open	Stack Setup		
	🗙 HA Proxy 🖌 Keystone 🗙	Neutron V CEPH V Glance	• •	inder 🔰 🗙 LDAP
	Domain Name *		0	Object Class for Users
	Enter Domain specific name			Enter objectClass for
	Object Class for Groups *		0	Domain Name Tree for
	Enter objectClass for Groups			Enter DN tree for Use
	Domain Name Tree for Groups *		0	Suffix for Domain Nam
	Enter DN tree for Groups			Enter suffix for DN
	URL *		0	Domain Name of bind
	Enter URL			Enter DN of bind use
	Password *		0	User Filter *
	Enter Password			Enter User Filter
	User ID Attribute *		0	User Name Attribute *
	Enter User Id Attribute			Enter User Name Att
			~	
	Enter User Mail Attribute		0	Group Name Attribute Enter Group Name A
	Domain Name field	Enter the Domain name.		
	Object Class for Users field	Enter a string as input.		
	Object Class for Groupsfield	Enter a string.		
	Domain Name Tree for Users field	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.	g	
	Domain Name of bind user field	Enter a string.		
	Password field	Enter Password as string format.	5	
	User Filter field	Enter filter name as strin	g.	

Name	Description	
	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.
	Group_filter field	It is optional. Enter a string.
	Group Member Attribute field.	It is optional. Enter a string.
	Group Id Attribute field	It is optional. Enter a string.
	Group Members Are Ids field.	It is optional. Enter True or False
	[

Name	Description
Neutron	

Name	Description		
	Neutron fields change on the basis of <i>Tenant Network Type</i> selection from Blueprint Initial Setup . Following are the options available for Neutron for OVS/VLAN:		
	Create Blueprint configuration Bueprint Initial Senip Physical Senip X HA Prony X Keystone X CEPH X Gance X Cinder X LDAP		
	Tenant Network Type *		Mechanism Drivers *
	VLAN		vpp
	NPV Hosts *		Tenant VLAN Ranges *
	Compute Name +		Enter Tenant VLAN Ranges
	H 4 1 21 P H		Provider VLAN Ranges
			Enter Provider VLAN Ranges
	Enable Jumbo Frames 🖯		
	Tenant Network Type field	It is Auto-filled based	l on the
		<i>Tenant Network Types</i> in the Blueprint Initia page.	
	Mechanism Drivers field	It is Auto-filled based on the <i>Tenant Network Type</i> selected in Blueprint Initial Setup page.	
	NFV Hosts field	It is auto-filled with t compute you added in and Roles.	
		If you select All in th section NFV_HOSTS is added to the Bluep you can select one par compute. For example	S: ALL rint or rticular
		NFV_HOSTS: compute-server-1, compute-server-2.	
	ENABLE_CAT	Optional to enable In CAT. It is valid only NFV Host is enabled default, it is set to fal	when . By
	RSHAD <u>I3CACHINSHRS</u> OCKT	Allowed value of rese cache lines per socke between 1 and 32. It only when ENABLE is set to True.	t is is valid

Name	Description	
	Tenant VLAN Ranges field	List of ranges separated by comma form start:end.
	Provider VLAN Ranges field	List of ranges separated by comma form start:end.
	VM Hugh Page Size (available for NFV_HOSTS option) field	2M or 1G
	Enable Jumbo Frames field	Enable the checkbox.
	Enable VM Emulator Pin	• Optional, when NFV_HOSTS is enabled.
		• When a VM is spawned with this parameter enabled, NOVA allocates additional vCPU on top of the vCPU count specified in the flavor, and pin vCPU0 to the pCPU that is reserved in the pool.
	VM Emulator PCORES Per Socket	• Optional, if ENABLE_VM_EMLLAIOR_PN is enabled.
		• Enter the number of cores per socket.
		• Defaults to 1. Can be in the range of 1 to 4.
	Base MAC Address	

Name	Description	
		Option for virtual machine MAC addresses. You can configure DHCP reservations for them so that they always get the same IP address regardless of the host hypervisor or operating system that is running.
		If the MAC address ends with 00:00,
		 First entry of the first octect must be a Hex Second entry of the first
		octect must be 2, 6, a or e
		For example, [a-f][2,6,a,e]:yz:uv:ws:00:00
	Nova Opt for low latency	Optional. You can enable additional real time optimizations in OpenStack NOVA.
		By default, it is set to False
	For Tenant Network Type, Lin the same but Tenant VLAN	nux Bridge everything remains Ranges is removed.

Name	Description
СЕРН	

Name	Des	scription		
	1.	In the blueprint initial Create Blueprint configuration	age Backend is selected	d as <i>Central</i>
		KHA Provy York Represent Ceeph Mode * Ceentral Monitor Hoad * Timm Konther Hoad to CCIPH Secret UMD * Imm Secret UMD for CCIPH NOUA RISP FOOL * vms	X Newton X Cinu X Cincx 3	Cunter 10 * Enter Conter 10 Monitor Manatara * Enter Monitor Manatara for CEPH Nova Boot From Locat © CEPH NAT
		Ceph Mode	By default Ceph Mod	e is Central.
		Cluster ID	Enter the Cluster ID.	
		Monitor Host	Enter the Monitor Hos	st for CEPH
		Monitor Members	Enter the Monitor Me CEPH	mbers for
		Secret UUID	Enter the Secret UUII	O for CEPH
		NOVA Boot from	You can choose CEPI from the drop-down l	
		NOVA RBD POOL	Enter the NOVA RBE (default's to vms)) Pool
		CEPH NAT	CEPH NAT is required Ceph and when mgmt not routable.	
	2.		e Backend is selected a al setup for dedicated C	

Name	Description		
	Blueprint Initial Setup Physical Setup OpenStack Setup		
	🗙 HA Proxy 🖌 Keystone 🗙 Neutron	4	CEPH 🗸 Gla
	Ceph Mode *	θ	Nova Boot From
	Dedicated		Ceph
	Cinder Percentage	0	Glance Percentage
	40		30
	Nova Percentage	0	Ceph OSD Cores *
	30		10
	 Cinder Percentage: Available when N From is <i>local</i> or <i>Ceph</i>. Glance Percentage: Available when N From is <i>local</i> or <i>Ceph</i>. Nous Percentage: Available when No. 	lova	Boot
	Nova Percentage: Available when No Fromis Ceph.	va D	001
	If NOVA Boot From is <i>local</i> , the total of C Percentage and Glance Percentage must b		
	If NOVA Boot From is <i>Ceph</i> , the total of Percentage and Glance Percentage must be		
	CEPH OSD RESERVED PCORES : Defau 2. Minimum value is 2 and Maximum value for Micropod and hyper-converged pods).		

 When Object Storage Backend is selected as NetApp in the blueprint initial setup, the Create Blueprint configuration <l< th=""></l<>
• Clance Persentage: Enter glance persentage for
• Glance Percentage: Enter glance percentage for Ceph Total of Cinder Percentage and Glance Percentage must be 100.

I

Name	Description	Description	
GLANCE	E 1. When Object Storage Backend is selected as Centre the blueprint initial setup.		
	Create Blueprint configuration	l l	
	Bueprix Initial Setup Physical Setup OpenDiack Set	uð	
	🗙 IA Proxy 🗸 Krystone 🖌 Neutron	X CEPH X Daves X Ceder	
	Store Backand *	Gitance RBD Pool *	
	CEPH	images	
	Glance Client Key *		
	Enter GLANCE Chern Key		
	Store Backend	By default CEPH.	
	Glance RBD Pool field	By default images.	
	Glance Client Key	Enter GLANCE Client Key	
	2. When Object Storage Ba in the blueprint initial setup Create Blueprint configuration	ackend is selected as <i>Dedicated</i>	
	Busprix Initial Setup Physical Setup OpenDiack I	Setup	
	🗙 HA Proxy 🗸 Keystone 🗸 Neutr	on X CEPH X Gance X Cinder	
	Store Backend *		
	CEPH	•	
	By default Populated for C Backend value as CEPH.	EPH Dedicated with Store	

I

CINDER By default Populated for <i>CEPH Dedicated</i> with Volume Driver value as CEPH . Create Blueprint configuration Volume Driver By default CEPH. Cinder RBD Pool field By default volumes. Cinder Client Key Enter Cinder Client Key Create Blueprint configuration	Name	Description	
Weight bind finite Physical bind Control <	5 1		<i>PH Dedicated</i> with Volume
Image: State State Image: State State <th></th> <td>Create Blueprint configuration</td> <td>1</td>		Create Blueprint configuration	1
Watere Other* Concer 180 Part* Concer Client Key* Enter Chicks Client Key Conder RBD Pool field By default CEPH. Cinder RBD Pool field By default volumes. Cinder Client Key Enter Cinder Client Key Create Blueprint configuration Enter Cinder Client Key Weene Weet* Keystone		Bueprint Initial Serup Physical Serup OpenStack Serup	•
CEPH Cender Cheer Key* Ever Coddel Cheer Key Volume Driver By default CEPH. Cinder RBD Pool field By default volumes. Cinder Client Key Enter Cinder Client Key Create Blueprint configuration Bupprict India Setup Physical Setup Volume Visuon Volume Driver By default CEPH. Cinder RBD Pool field By default volumes. Create Blueprint configuration Bupprict India Setup Volume Driver*		🗙 HA Proxy 🗸 Keystone 🗸 Neutron	X CEPH X Gance X Cinder
Coder Gliest Kay* Prior Childle Conex Kay Volume Driver By default CEPH. Cinder RBD Pool field By default volumes. Cinder Client Key Enter Cinder Client Key Create Blueprint configuration Bupprint bitul Setup Waters Blueprint configuration Waters Waters Volume Driver Neuton X HA Provy Keystone Volume Driver* Neuton		Volume Driver *	Cinder RBD Pool *
Image: Concernence of the concerne of the concernence of the concernence of t		CEPH	volumes
Volume Driver By default CEPH. Cinder RBD Pool field By default volumes. Cinder Client Key Enter Cinder Client Key Create Blueprint configuration Bueprint instal Setup Opendited Setup Y HA Proxy Keystone Yourne Driver*		Cinder Client Key *	
Cinder RBD Pool field By default volumes. Cinder Client Key Enter Cinder Client Key Create Blueprint configuration Bueprint Initial Setup Physical Setup Yearne Other*		Enter CNDER Client Key	
Cinder Client Key Enter Cinder Client Key Create Blueprint configuration Bueprint Initial Setup Physical Setup Yourne Driver*			
Blueprint Initial Setup Physical Setup OpenStack Setup X HA Proxy Keystone K CEPH K Glance K Cooor Volume Driver *		Cinder Client Key	
		Bioeprint Initial Setup Physical Setup OpenStack	

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

Name	Description			
	Check one of the check box	es to specify a VMTP	net	work:
	Provider Network			
	• External Network	• External Network		
	For the Provider Network	For the Provider Network complete the following:		
	Provider Network #			I
	Network Name *		0	Subnet * 01PV4 #1P
	Enter Network Name			Enter Subnet for IP
	Network IP Start *		0	Network IP End *
	Enter IP Address			Enter IP Address
			0	DNS Server *
	Network Gateway * Enter Network Gateway			Enter DNS Server
			~	
	Segmentation ID *		0	Select IPV6 MODE
	Enter Segmentation ID from 2 to 4094			
	VNIC Type		0	PHYSNET NAME
	direct			phys_prov_fla
	Network Name field	Enter the name of the provider network.	he	
	IPv4 Or IPv6 field	Select either IPv4 o	or II	Pv6
	Subnet field	Enter the Subnet for Network.	Pro	ovider
	Network IP Start field	Enter the start of the IPv4/IPv6 address.	e flo	oating
	Network IP End field	Enter the end of the IPv4/IPv6 address.	e flo	pating
	Network Gatewayfield	Enter the IPv4/IPv6 for the Gateway.	5 ad	dress
	DNS Server field	Enter the DNS serv IPv4/IPV6 address.		
	Segmentation ID field	Enter the segmentat	tion	ı ID.
	IPv6 Mode field	Enter the IPv6 addre with the prefix, if II option is selected.		
	VNIC Туре	For B-series, Direc default value. For C it is either 'Default' 'Normal'	C−s	eries,

I

Name	Description		
	PHYSNET NAME	For B-series, the value is phys_prov_fia or phys_prov_fib. For C-series, value like	
		phys_sriov_n is found, when n is number of ports.	te
	For External Network fill i	in the following details:	
	External Network 1		
I	Network Name *		Subnet *
I	Enter Network Name		Enter Subnet
I	Network IP Start *		Network IP End *
I	Enter IP Address		Enter IP Address
I	Network Gateway *		DNS Server*
	Enter Network Gateway		Enter DNS Server
I	VNIC Type	0	
	direct		
	Network Name field	Enter the name for the external network.	
	Subnet field	Enter the Subnet for the external Network.	
	Network IP Start field	Enter the start of the floatin IPv4 address.	ıg
	Network IP End field	Enter the endof the floating IPv4 address.	3
	Network Gateway field	Enter the IPv4 address for the Gateway.	
	DNS Server field	Enter the DNS server IPv4 address.	
FLS This optional section will only be visible once FLS is selected from Blueprint Initial Setup Page.	TLS has two options: • External LB VIP FQI	DNText field.	
	• External LB VIP TLS option is false.	S True/False. By default this	

Description	
non-root login.	ord, Public key or both for the n must be configured when
Create Blueprint configuratio	n
Blueprint Initial Setup Physical Setup	OpenStack Setup
🗙 HA Proxy 🗸 Keystone	✓ Neutron X CEPH X Glance 3
Username*	Password Public key
Note: Remove empty records before val	lidation.
 Permit root login 	
User Name	Enter username for Vim Admin.
Password	Password field. Admin hash password should always start with \$6.
Public Key	Public key for vim admin should always start with 'ssh-rsa AAAA'
	Following are the field description • Add Username, Passworn • At least one Vim Admine Permit root login is fals Create Blueprint configuration Blueprint Initial Setup * HA Proxy * HA Proxy * HA Proxy * Weystone Username* Note: Remove empty records before val * Permit root login User Name Password

Name	Description		
SwiftStack optional section will be visible once SwiftStack is selected from Blueprint Initial Setup Page. SwiftStack is only supported with KeyStonev2	Following are the options that needs to be filled for SwiftStack:		
. If you select Keystonev3, swiftstack will not be available for configuration.	Create Blueprint configuration		
	Biveprint Initial Setup Physical Setup OpenStack	Setup	
	🗙 HA Proxy 🗸 Keystone 🗸 Neut	ron X CEPH X Gance	🗙 Cinder 🔷 🖌 TLS
	Cluster End Point *		0 Reseller Prefx *
	Enter Cluster End Point IP/Domain		Enter Reseller Prefix
	Admin User * Enter Admin User name		Admin Password * Enter Password
	Admin Tenant *		O Protocol*
	Enter Admin Tenant name		http
		(Proxy-Account-C endpoint.	
	Admin User field	Admin user for sw	
		authenticate in key	/stone.
	Admin Tenant field	The service tenant corresponding to t Account-Containe the Swiftstack.	he
		the Swittstuck.	
	Reseller Prefix field	Reseller_prefix as of for Keysone Auth,AuthToken s Swiftstack. Examp	support in
	Reseller Prefix field Admin Password field	Reseller_prefix as of for Keysone Auth,AuthToken s	Support in ble: KEY_

10. For SolidFire, enter the following:

Name	Description	
Ivanic	read from the second se	

SolidFire is visible for configuration on day0 SolidFire is not allowed as a day-2 deployment option		Create Blueprint	configura	tion				0					
SolidFire is always available with CEPH.			i i	i.	ł	Biveprint Initial Serup	Physical Se	nio -	OpenStack Setup				
		🗙 на Ризку	🖌 Keysto	re	✓ Nestron	🗸 аян	V Garce	>~	Cinder				
	-	Cluster MVP + 172.23.105.217						0	Cluster SV				
		Admin Username * cinderstadmin						0	Admin Par				
		Cluster MV		Ma clus	nagement	IP of So	lidFire						
		Cluster SVII	P field	Sto	rage VIP o	of SolidI	Fire cluster	:					
		Admin User	name	Adı	min user of	n SolidF	ire cluster						
	1	Admin Pass		Adı clus	min passwo	ord on S	olidFire						
	Ľ												

11. For NetApp, enter the following:

Name	Decription
	Optional NETAPP configuration. No dedicated Ceph allowed.

Name	Decription
	• Server Hostname: It is the IPv4/IPv6/Hostname/FQDN of NetApp management/API server.
	• Server Port: It is the port of NetApp management/API server. 80 for HTTP 443 for HTTPS.
	• Transport Type: It is HTTP or HTTPS. Server port depends on Transport type.
	• Username : It is the username of Netapp API Server.
	• Password : It is the password of NetApp API Server.
	• Cinder NFS Server : It is the data path IP of NFS Server. Provide the IPv4/IPv6/Hostname/FQDN
	• Cinder NFS Path: It is the path of NFS Server.
	• Nova NFS Server: It is the data path IP of NOVA NFS server. Provide the IPv4/IPv6/Hostname/FQDN.
	• Nova NFS Path: It is the path of NOVA NFS.
	• V Server: SVM for Cinder NFS volume. Provide the IPv4/IPv6/Hostname/FQDN.
	Glance NFS Server : It is the data path of glance NFS server. Provide the IPv4/IPv6/Hostname/FQDN
	Glance NFS Path : It is the path of glance NFS server.

12. If Syslog Export or NFVBENCH is selected in Blueprint Initial Setup, the Services Setup pane is enabled for the user to view.

Following are the options under Services Setup tab:

Name	Description		
Syslog Export	Following are the options for S	Syslog Settings:	
	Create Blueprint configuration		I
	Blueprint Initial Setup Physical Setup OpenStack Setup	Services Setup	
	X Synleg Expert		
	Remote Host *		O Protocol *
	Enter IP Address Facility*		UDP Severity*
	local5		debug
	Port *		Clients *
	514		BUK
	Remote Host	Enter Syslog IP add	
	Protocol	Only UDP is suppor	ted.
	Facility	Defaults to local5.	
	Severity	Defaults to debug.	
	Clients	Defaults to ELK.	
	Port	Defaults to 514 but of modified by the Use	

Name	Description
NFVBENCH	NFVBENCH enable checkbox which by default is <i>False</i> .
	Create Blueprint configuration
	Biueprint Initial Setup Physical Setup OpenStack Setup Services Setup
	X Syslog Export X MEVELNCH
	Enable TORSWITCH details are empty, Add TORSWITCH details to configure NFVBENCH
	NIC Ports: INT1 0 INT2 1 2
	Add ToR information connected to switch: • 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 the NFVbench.
	For mechanism driver VPP, two optional fields are available if network option is present:
	• VTEP IPs : It is mandatory for NFVbench with VXLAN. Comma separated IP pair in vxlan-tenant network, but not in the tenant pool. This option is not required.
	• VNIs: It is mandatory for NFVbench with VXLAN and must be comma separated vnid_id pairs.
	For mechanism driver VTS:
	VTEP Ips : Mandatory only for VTS/VXLAN. Comma separated IP pair belongs to tenant network segment, but not in tenant network pool.
ENABLE_ESC_PRIV	Enable the checkbox to set it as True. By default it is <i>False</i> .

Name	Description			
Horizon Aliases	If the external_lb_vip is behind a NAT router or has a DNS alias, provide a list of those addresses.			
	Horizon Allowed Hosts uses comma separated list of IP addresses and/or DNS names for horizon hosting.			
	Create Blueprint configuration	I		
	Blueprint Initial Setup Physical Setup OpenStack Setup			
	X HA Proxy V Keystone V Neutron X CEPH X Glance	X Cinder		
	Horizon Allowed Hosts * 🔉	• +		
	NAT IP	~		
	I 4 4 1 / 1 + H 5 items per page			

Name	Description
Vim LDAP Admins.	

Optional entry to support LDAP for Admin access to
management node. TLS must be enabled for the external api
(i.e. external_lb_vip_tls: True).
Following are the values to be filled to add vim LDAP admins
Add Vim LDAP Admins
Domain Name *
Enter Domain Name
LDAP URI *
Enter LDAP un Narras
LDAP Search Base *
Enter Search Base
LDAP Scherma
Enter LDAP Scheme
1 DAD these shares Chara
LDAP User object Class Enter LDAP User object Class
LDAP User UID number
Enter LDAP User UID member
LDAP User GID number
Enter LDAP User GID member
LDAP Group Member
Enter LDAP Group Member
LDAP Detault Bind DN
Enter LDAP Owfault Birdt DN
LDAP Default Auth Token
Enter LDAP Default Auth Token
LDAP Default Auth Token Type
Enter LDAP Default Auth Yolden Types
Ldap Group Search Base
Entar Ldap Group Search Base
Ldag User Search Base
Enter Liber User Search Base
Access Provider
Enter Access Provider
Simple Allow Groups
Enter Simple Allow Groups
LDAP ID use start TLS
Select
LDAP TLS Request Certificate
Select V
Choses Provider
Sedect

- **domain_name**: It is a mandatory field. Indicates the domain name to define vim LDAP admins.
- **ldap_uri** : It is a mandatory field. The ldap_uris must be secured over ldaps.

I

Name	Description
	. • ldap_search_base: It is mandatory. Enter search base.
	• ldap_schema: Optional. Enter the schema.
	• ldap_user_object_class : Optional. Indicates the posixAccount.
	 Idap_user_uid_number: Optional. Enter the user id number.
	• ldap_user_gid_number: Optional. Enter the group id number.
	• ldap_group_member: Optional. Enter the group member ID.
	• Idap_default_bind_dn: Optional . Enter the default DN
	• ldap_default_authtok : Optional. Enter the default Auth token
	• ldap_default_authtok_type :Optional. Enter the default Auth token type
	• ldap_group_search_base : Optional. Enter the group search base
	• ldap_user_search_base :Optional. Enter the user search base
	access_provider: Optional
	simple_allow_groups: Optional
	• ldap_id_use_start_tls: Optional. Can be true or false
	• ldap_tls_reqcert: Optional, can be "never"/"allow"/"try"/"demand"
	• chpass_provider :Optional can be 'ldap' or 'krb5' or 'ad' or 'none'

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

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

ehi-dir cisco VIM Unified	Management		Calsoft 10:30,116,264	<u>_</u> ~	Role: Full-Pod-Access	User Dt schadur
nhboard n-Install		Create Blueprint configuration			Save Form Office	Validation Crear
Burprint Setup						
Bueprint Management		Bueprint Initial Setup Physical Setup	OpenStack Setup			
st-install		Busprint Name: *		Platform Type: *		
ne Topology		Errer Dueprot Name		C-series		
User Administration		Tenant Network: *		POD Type *		•
	01	LinuxBridge/VXLAN		Fution		
		Object Storage Backand *				
		Central				
		Optional Peatures & Services:				
		Systep Expert Settings	E ES_REMOTE_BACKUP	C N/V Mentoring	III Swiftstack	
		Pod Neme	Wm Admine	C Enable Esc Priv	C Install Mode	
		E Heat	III Mh/bench	SROV CARD TYPE	TORSwitch Information	
		Permit Root Login	W Auto Beckup	LDAP	U VMTP	
		INETAPP_SUPPORT	C Keystone v3	0 71.8		
		Import Existing 1AML file				

Name	Description
Blueprint Name field.	Enter the name for the blueprint configuration.
Platform Type drop-down list	Choose one of the following platform types: • B-Series (By default) • C-Series (Select C Series)
Tenant Network drop-down list	Choose one of the following tenant network types: • Linux Bridge/VXLAN • OVS/VLAN • VTS/VLAN • VPP/VLAN Note when VTS/VLAN is selected then respective tabs are available on Blueprint setup. When mechanism driver OVS is selected, VM_HUGEPAGE_PERCENTAGE field is enabled for all standalone compute nodes, when NFV_HOSTS is enabled.

Name	Description					
Pod Type drop-down list	Choose one of the following pod type :					
	• Fullon(By Default)					
	• Micro • UMHC					
	• NGENAHC					
	Note• UMHC pod type is only supported for OVS/VLAN tenant type.					
	• NGENAHC is supported for VPP/VLAN tenant type with no SRIOV					
	Pod type micro is supported for OVS/VLAN and VPP/VLAN.					
Ceph Mode drop-down list	Choose one of the following Ceph types:					
	• 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, Enable Esc Priv.					
	If any one is selected, the corresponding section is visibl 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 us this feature to upload the file.					
	Insight will automatically fill in the fields and any misse 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:

cisco VIM Unified	Manageme	int Calut Or Y	Role: Full-Pool-Access U	leer ID: noheshar 🛛 🔇
Dashboard Pre-Instat		Create Blueprint configuration	Silve Form Office Weld	ation Dear
Biveprint Senup Biveprint Management Post-restal Vew Topology	×	Burgerint Initial Setup Physical Batup OpenStack Setup Regulary Setup CMC Common X Networking X Servers and Roles		
Pod User Administration	8	Registry User Name * Exer registry Uservane Registry Email * Exer registry email	Registry Password * Enter registry personnes	0

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:

shboard			
Install	Create Blueprint configuration		Save Form Offine Validation Clear
Bueprint Setup			
Bueprint Management	Biurprint Initial Setup Physical Setup OpenStack Setup		
-Install			
w Topology	X Registry Setup X CMI Common X Networking	X Servers and Roles	
User Administration	Germanne *	Password *	0
	admin	persword	

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.

I

bread								-
install	-	Create Blueprint co	onfiguration			Save Form	Offine Validation	00
Rueprint Setup								
lueprint Management		Blueprint Initial Setup	Physical Setup OpenStack Setup					
install Topology	*	🗙 Registry Setup	X UCSM Common	scoling X Servers and Roles				
iter Administration		Domain Name : *						0
		Enter Domain Name						
		HTTP Proxy :			HTTPs Proxy :			
		Enter HTTP Proxy			Enter HTTPS Proxy			
		IP Tables on Manageme	ent Pods : 0 🝵	NTP Server : *	• = +	Domain Name Server : *	• =	+
		P Address	* Action *	NTP server	 Action ~ 	DNS server	 Action ~ 	
				14 4 1 11 1	H	H 4 1 11 H H		
		Networks ; *						+
		 Vian 	* Segment * Subnet	* Subnet IPv6 * 0	Gateway Vol	* Pool * Pool lov6	* Action *	
			cinc				/ ×	1
			agi				/ ×	t
			management/provis				/ ×	1
			tenant				/ ×	1
			storage				/ ×	1
		-						

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Name	Description
Domain Name field	Enter the domain name. (Mandatory)
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.
IP Tables on Management Pods	Specifies the list of IP Address with Mask.
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.

Name	Description
Networks table	

Network table is pr	
Networks you can e	e-populated with Segments. To add either clear all the table with Delete in for each segment and fill in the
You can add, edit, o table.	or delete network information in the
Edit Network	
VLAN : *	٥
Enter VLAN Segment : *	
None Selected - Subnet : *	
Enter Subnet :	
Enter Subnet Pv6 Gateway (*	
Enter Cateway Address Pvd-Gateway :	
Enter Gateway Address(PvR)	
POSE : * (multiple positri ranges alreads be comme au Enter: IP-Poce	end 0
BV6 Post : (Mdpix.post reque should be server Enter BV6 Pool	equerend O
table.	to add new entries (networks) to the lowing fields in the Edit Entry to
	-5.
Name	Description
Name VLAN field	-
	Description
	Description Enter the VLAN ID. For Segment - Provider, the VLAN ID value is 'none'. vn list When you add/edit new segment then following segments types are available in the form of dropdown list and you can select only one.
VLAN field	Description Enter the VLAN ID. For Segment - Provider, the VLAN ID value is 'none'. vn list When you add/edit new segment then following segments types are available in the form of dropdown list and you can select only one. • API
VLAN field	Description Enter the VLAN ID. For Segment - Provider, the VLAN ID value is 'none'. vn list When you add/edit new segment then following segments types are available in the form of dropdown list and you car select only one.

Description	
	• Storage
	• External
	• Provider
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: 10.1.15-10.1.1.10,102.1.5-102.1.10
	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: 101.1.5-10.1.1.10,102.1.5-102.1.10
Click Save.	1
	Subnet field IPv6 Subnet field Gateway field Gateway IPv6 field Pool field IPv6 Pool field

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.

Abourt														
Index		Create Blueprint cor	figuration								ave Form Office	teldator	Cite Cite	
Bueprint Setup Bueprint Management -matal		Margaret Initial Series	tysial Sete		E Servers and Ros									
her Administration	÷	Server User Name			2 100	NK SHOP	4.)	D CHO ALC H	e seov	8 mai 500	OI 185		0	
		COBLER Cablier Timeout ii) Control Kokster * (C1-C-3-01-C-3478-K0 Server Nost Research * Totar Server Host Passes Server and Roles * •				0 0	Compute Kic	-c-series its					•	
		Server Name	° OMC P	CBMC Gear name	CMC Password	Rech.I		Rate Control Control	* Maragem	w(P *	Managament (Put)	1	:	
		(H)(R)(T)(t)						compute				1	×	

Note If you choose mechanism driver as OVS, VM_HUGEPAGE_PERCENTAGE field column is available for compute nodes, where you can fill values from 0 to 100%, when NFV_HOSTS: ALL is chosen. Also, option of NIC Level Redundancy appears only when Intel Nic Support is set to true. This is applicable only in the case of M5 based pods.

Name	Description
Server User Name field	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:			
	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 Add Entry to Servers and Roles		Description
Note	when Pod type micro is selected then all the three servers will be associated with control, compute and block storage role.	
For exa	ample:	
Roles		
• Bl	lock Storage	
	• -Server 1	
	• -Server 2	
	• -Server 3	
• Co	ontrol	
	• -Server 1	
	• -Server 2	
	• -Server 3	
• Co	ompute	
	• -Server 1	
	• -Server 2	
	• -Server 3	
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.	

e	Descript	ion		
	Click Ed	lit or + to add a new	server and role to the table.	
	field VM compute NFV_H0	I_HUGEPAGE_PER role is chosen; This OSTS is set to ALL; I lue of VM_HUGEPA	OVS, an additional optional CENTAGE is shown when option is only valid when f no value is entered then the GE_PERCENTAGE is used	e
		er Name *		0
		er Server Name		
	VIC 5			
		er VIC Slot		
	CIMC			0
	Ent	ter CIMC IP Address		
		User Name		
	Ent	er CIMC Username		1
		Password		0
	1000	er CIMC Password		
	Rack			
	Summer 2	er Rack ID		
	Role			
	00	NTROL	v	
	Disat	ble Hyperthreading		
			•	
	Num	Root Drive		
		1100010000		
	Root	Drive Type		
			*	-
	VIC /	Admin FEC mode	•	2
		and Channel Brooks		-
	VICE	Port Channel Enable		0
	Vend			0
	vend	NR.	T	1
	Sec	re Computing Mode		0
	0.900	a serile and the se	•	1
	Manu	igement IP		0
		er Management IP Address		Ĩ
		ige IP		0
		er Storage IP Address		-
		igement IPv6		0
		er Management IPv6 Address		-
	1.00		21	li I
	Server	Nama	Entry the new office as	
	11 Server	name	Entry the name of the server	ſ. !

Name	Description	
	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. If Podtype is fullon and selected role type is Block storage, an additional field Osd_disk_type is displayed where you can choose either HDD or SSD.
	VIC Admin FEC mode	Applicable only for Cisco VIC that supports to change the admin FEC mode. Can be auto/off/c174/c191.
	VIC Port Channel Enable	Optional. Default is true. Can be either true or false.
	Secure Computing mode	Optional. By default, it is set to 1, if not defined. Can be either 0 or 1.
	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.
	Storage IP	Optional, but if provided for one server then it is mandatory to provide details for other servers.
	Vendor	Allow static override value for platform vendor instead of dynamic discovery at runtime. Can be CISCO - Cisco Systems Inc/ QCT - Quanta Cloud Technology Inc/ HPE - Hewlett Packard Enterprise.
	Management IPv6	

Name	Description	
		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.
	BGP speaker addressees	Optional, only when NETWORK_OPTIONS is vxlan network, for controller node only, IP belongs to the vxlan-tenant network but not part of the pool.
	INTEL_SRIOV_VFS	Value range is 1 to 32. Can be defined globally and overridden at per compute level via add/remove or fresh installationI, if Intel N3000 card is installed for pod type edge.
	INTEL_FPGA_VFS	Value range is 1 to 8. Can be defined globally and overridden at per compute level via add/remove or fresh installationI, if Intel N3000 card is installed for pod type edge.
	INTEL_VC_SRIOV_VFS	Value range is 1 to 32. Can be defined globally and overridden at per compute level via add/remove or fresh installationI, if Intel N3000 card is installed for pod type edge.
Click Save or Add .	On clicking Save or Add all and Roles gets saved.	information related to Servers
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)	 Port Channel field Switch Name field Switch Port Info field 	 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.	 Port Channel field Switch Name field Switch Port Info field 	 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. with TOR TYPE Nexus. For TOR TYPE NCS-5500 these fields are optional 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	• Switch Name field • Switch Port Info field	 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)	C 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. For NCS-5500 this value is set to 4 and is non-editable.	
Click Save or Add .	If all mandatory fields are fi information on Servers and	lled click Save or Add to add Roles.
Disable Hyperthreading	Default value is false. You c	an 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. CISCO_VIC_INTEL_SRIOV is also supported on Micro pod with expanded computes
- **Note** For Tenant type, port channel for each ToR port is not available in servers and roles, as APIC automatically assigns the 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.

isco VM Unified	Vanagement		Cellech 10:30:116:244	Role: Full Pod Access	User D: shashar
Nonset		Create Blueprint configuration		Save Form Office V	Nitaton Cica
Bueplint Setup Bueprint Management		Disriprint Initial Senup Physical Senup Operational Senup			
- Install	*	🗙 Beginny Sengo 🗙 CARC Common 🗙 Remarking	K fervers and Roles K Tor Series		
User Administration		E Contigure TOR			
		Tordivity) Information * 	SSN Num $\ \ ^{\ast}$ VPC Peerlex $\ ^{\ast}$ VPC Domain $\ ^{\ast}$ VPC peer $p_{\rm u} \ ^{\ast}$ VPC peer $V_{\rm u} \ ^{\ast}$	Bit regret po." Bit regret P"	ii + Action
		H T IT F H			

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Name		Descri	ption
Configu Note	ure ToR optional checkbox. If UMHC is selected as podtype,	Enablin false to	ng this checkbox, changes the configure ToR section from true.
	configure TOR is not allowed.	Note	Configure tor is true then ToR switch info maps in servers

Name	Description
ToR Switch Information mandatory table if you want to enter ToR information.	

Name	Description	
	Click (+) to add information	n for ToR Switch.
	Switch Details Hostname Enter Switch Hostname Username Enter Switch Username Password Enter Password SSH-IP Enter IP Address SSN Num Enter SSN Num VPC Peer Keepalive Enter IP Address	
	Enter IP Address VPC Domain Enter VPC Domain VPC Peer Port Info Enter VPC Port VPC Peer VLAN Info Enter VPC VLAN Info BR Management Port Info Enter BR Port Info BR Management PO Info Enter BR PO Info Save Cancel	0
	Name	Description
	Name Username	ToR switch name.
	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.

Name	Description	Description	
	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).	
Splitter Optic 4x10	Type is either fullon or Micro, a provided to select the TOR Type	For C Series platform type, Tenant Type is VPP/VLAN and Pod Type is either fullon or Micro, an additional choice will be provided to select the TOR Type. If selected TOR type is NCS-5500, then user can configure splitter cable parameters.	
Click Save.	I		
L			

Name		Descri	ption
Config Note	ure ToR optional checkbox. If UMHC is selected as podtype, configure TOR is not allowed.	Enablin false to Note	ng this checkbox, changes the configure ToR section from true. Configure tor is true then ToR switch info maps in servers

Name	Description
ToR Switch Information mandatory table if you want to enter ToR information.	

Name	Description		
	Click (+) to add information	for ToR Switch.	
	Switch Details		
	Hostname *		0
	Enter Switch Hostname		
	Usemame *		0
	Enter Switch Username		
	Password *		0
	Enter Password		
	SSH-IP *		0
	Enter IP Address		
	SSN Num		0
	Enter SSN Num		
	VPC Peer Keepalive		0
	Enter IP Address		
	VPC Domain		0
	Enter VPC Domain		
	VPC Peer Port Info		0
	Enter VPC Port		
	VPC Peer VLAN Info		0
	Enter VPC VLAN Info		
	BR Management Port Info		0
	Enter BR Port Info		
	BR Management PO Info		0
	Enter BR PO Info		
	Save Cancel	Description	
	Name	Description	
	Name	ToR switch nam	e.
	Username	ToR switch user	name.
	Password	ToR switch pass	word.
	SSH IP	ToR switch SSH	I IP.
	SSN Num	ToR switch ssn	num.
	VPC Peer Keepalive	Peer Manageme cannot define if peer.	

Name	Description	
	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).
Click Save.		

	Description	
Configure ToR	Is not checked, as by defau	lt ACI will configure the ToRs
	Switch Details	
	Hostname *	0
	Enter Switch Hostname	
	VPC Peer Keepalive *	0
	Enter IP Address	
	VPC Domain *	0
	Enter VPC Domain	
	BR Management Port Info	0
	Enter BR Port Info	
	Node ID *	0
	I	
	Save Cancel	
	Save Cancel Host Name	ToR switch name.
		ToR switch name. Enter Peer must be exist pair.
	Host Name	Enter Peer must be exist
	Host Name VPC Peer keep alive	Enter Peer must be exist pair.

Note If TOR_TYPE is selected as NCS-5500, the TOR switch information table differs and is mandatory.

Name		Descript	ion
Note I	e ToR optional checkbox If NSC-5500 is selected as TOR_TYPE, configure TOR is set as mandatory.		g this checkbox, changes the configure ToR From false to true. Configure TOR is true then ToR switchinfo maps in servers.

Name	Description
If you want to enter NCS details fill in the NCS-5500 Information table.	

Description	
Click (+) to add inform	mation for NCS-5500 Switch.
Hostname *	0
Enter Switch Hostname	
Username *	0
Enter Switch Username	
Password *	0
Enter Password	
SSH-IP *	0
Enter IP Address	
VPC Peer Keepalive	0
Enter IP Address	
VPC Peer Port Info	0
Enter VPC Port	
VPC Peer Port Address	0
Enter VPC Port Address	
ISIS Loopback Address	0
Enter ISIS Loopback Addre	55
ISIS Net Entity Title	0
Enter ISIS net entity title	
ISIS Prefix SID	0
Enter ISIS Prefix SID	
BR Management Port Info	0
Enter BR Port Info	
BR Management PO Info	0
Enter BR PO Info	
ISIS Prefix SID Enter ISIS Prefix SID BR Management Port Info Enter BR Port Info BR Management PO Info	•
Name	Description
Name	Enter the NCS-5500 hostname.
User Name	Enter the NCS-5500 username.
Password	Enter the NCS-5500 password.
SSH IP	Enter the NCS-5500 ssh Address.
VPC Peer Link	Peer management IP.

Description	Description	
Name	Description	
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).	
VPC Peer Port Info	Interface for vpc peer ports.	
VPC Peer Port Address	Address for ISIS exchange.	
ISIS Loopback Interface address	ISIS loopack IP Address.	
ISIS net entity title	Enter a String.	
ISIS prefix SID	Integer between 16000 to 1048575.	
	Name BR Management PO Info BR Management VLAN info VPC Peer Port Info VPC Peer Port Address ISIS Loopback Interface address ISIS net entity title	

When TOR-TYPE selected as NCS-5500 and 2 NCS-5500 are configured it is mandatory to configure MULTI_SEGMENT_ROUTING_INFO

Name	Description
BGP AS Number field	Integer between 1 to 65535.
ISIS Area Tagfield	A valid string.
Loopback Interface namefield	Loopback Interface name.
API bundle IDfield	Integer between 1 to 65535.
API bridge domain field	String (Optional, only needed when br_api of mgmt node is also going through NCS-5500; this item and api_bundle_id are mutually exclusive).
EXT bridge domain field	A valid string (user pre-provisions physical, bundle interface, sub-interface and external BD for external uplink and provides external BD info setup_data).

7. Click NFVI Monitoring checkbox in Blueprint Initial Setup to enable the NFVI Monitoring configuration tab.

I

Dashboard		Save form Offic	ne Validarion 🔹 Clea
Pre-Install	0.0	Create Blueprint configuration	
Post-Install	e	Disprint Initial Setup Physical Setup OpenStack Setup	
view Topology			
Pol Des Administration	14	X Hegistry Setup X UCSM Common X Networking X Servers and Roles X M VI Municipal	
		Master A Admen IP, * Admen P	0
		Collector Management VP: *	0
		Management VIP	
		Collector VM Info *	
			+
		Host Name Password Couser Password Admin IP Management IP	* Action *
		No Sita avatade	
		ie a 1 (1 > H) Dispetcher Recci NG User Name: 1	0
		Hantor MD User Name.	
		NPVMCM Admin	0
		Actes Name	
		Zenosa secondary NFVI-MON MASTER/COLLECTOR into	v
		Master 2 Admin 19:	Grad Al
		Admin P	
		Collector 2 Management VIP:	0
		Management VP	
		Culteror VM Info	+
		Host Name * Peanword * Course Peanword * Admin IP * Management IP	~ Action ~
		No data available	
		No data available	

Name	Description
Master - Admin IP	IP Address of Control Center VM
Collector - Management VIP	VIP for ceilometer/dispatcher to use, must be unique across VIM Pod
Host Name	Hostname of Collector VM
Password	Password of Collector VM
CCUSER Password	Password of CCUSER
Admin IP	SSH IP of Collector VM
Management IP	Management IP of Collector VM

Name	Description	Description			
Master 2		Optional, but becomes mandatory if collector 2 is defined. Must contain a valid Admin IP.			
Collector 2	Contains Management VI information. Collector 2 is	Optional, but becomes mandatory if Master 2 is defined. Contains Management VIP and Collector VM information. Collector 2 is secondary set to collector, with all the properties of Collector.			
NFVIMON ADMIN		Optional and reconfigurable to add/update user id. Once enabled, you must have only one admin.			
Collector ToR Connections	1. Click on (+) icon to Ad	d Collector ToR Connections.			
	2. Select the ToR switcher information.				
	3. It is optional and available for ToR type NCS-5500				
	4. For now, it supports ac Connection	lding only one Collector ToR			
	Add Collector Tor Connections				
	Select for swhich for connections Port Channel * Enter port channel Switch- test-torhosthare * Enter Port information Sake Cancel	0			
	Port Channel	Enter port channel.			
	Switch - {torSwitch-hostname}	Enter port number, For example, eth1/15.			
	Click Save				
Rabbit MQ User Name	Enter Rabbit MQ usernam	e.			

8. Click CVIMMON checkbox in Blueprint Initial Setup to enable the CVIMMON configuration tab.

ate Blueprint conf	iguration								Save Form	Ck
eprint Initial Setup	sical Setup	OpenStack	(Setup							
🗙 Registry Setup	X UCSM CO	ommon	X Networkin	9	×	Servers and Role	• >	¥. 69888	DN	
nable R										
folling intervals										
Low Frequency		τ.		m						0
Medium Frequency		30		5						0
High Frequency		10								0

CVIM-MON is a built-in infrastructure monitoring service based on telegraf/prometheus/grafana.

When enabled, the telegraf service will be deployed on every node on the pod to capture infrastructure level stats (CPU, memory, network, containers, and so on.) and a Prometheus server will be installed on the management node to poll for these stats and store them in its time series database. The statistics can then be viewed using the grafana server that is accessible on the management node at port 3000 (password protected).

There are three levels of polling intervals which are used by different telegraf plugins:

- Low frequency interval is used to collect system level metrics like cpu, memory.
- Medium frequency interval is used to collect docker metrics.
- High frequency interval is used to collect rabbitmq metrics.

Defining polling intervals in setup data is optional. If not defined, the default values are used.

CVIM-MON is mutually exclusive to NFVIMON.

PODNAME is required, when CVIM-MON is enabled.

Name	Description
Enable	Default is False
Polling Intervals	
Low frequency – deprecated	<integer (s="" following="" h)="" m="" sign="" time="" with=""> # min of 1 minute (1m) if not defined defaults to 1m, also it needs to be higher than medium interval.</integer>
Medium frequency – deprecated	<integer (s="" following="" h)="" m="" sign="" time="" with=""> # min of 30 seconds (30s) if not defined defaults to 30s, also it needs to be higher than high interval.</integer>
High frequency	<integer (s="" following="" h)="" m="" sign="" time="" with=""> # min of 10 seconds (10s) if not defined defaults to 10s.</integer>

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

Name	Description	
HA Proxy	Fill in the following details:	
	Create Blueprint configuration	
	Biueprint Initial Setup Physical Setup OpenStack	
	Keysone X Neur External VP Address *	on 🗸 CEPH 🗸 Glance 🗸 Cinder 0 External VP IPv6 Address
	Enter IP Address Virtual Router ID * Enter Virtual Router ID	Enter IP Address Internal VIP Address Enter IP Address
	Internal VIP IPv6 Address Enter IPv6 Address	0
	External VIP Address field	Enter IP address of External
		VIP.
	External VIP Address IPv6 field	Enter IPv6 address of External VIP.
	Virtual Router ID field	Enter the Router ID for HA.
	Internal VIP Address IPv6 field	Enter IPv6 address of Internal IP.
	Internal VIP Address field	Enter IP address of Internal VIP.
Keystone	Mandatory fields are pre-popul	lated.
	Create Blueprint configuration	
	Bueprint Initial Setup Physical Setup Coenditack Setup HA Provy Revealed X Neutron X Neutron	🗸 CEPH 🔰 🗸 Gauce 🗸 🗸 Cinder
	Admin Username * admin	Admin Tenart Name * admin
	Admin User Name	admin.
	Admin Tenant Name	admin.

Name	Description
LDAP	

Name	Description			
	LDAP enable checkboxwhich enabled on keystone.	by default is fals	e, if LDAP is	
	Create Blueprint configuration		I	
	Bueprint Initial Setup Physical Setup OpenDitack Setup			
	🗶 HA Proxy 🗸 Keystone 🔪 🗶 Neutron	✓ CEPH ✓ Gance	🗸 Cinder 🔰 🕱 USAP	
	Domain Name *		Object Class for Users *	
	Enter Comain specific name Object Class for Groups *		Domain Name Tree for Users	
	Enter object/Class for Groups		Enter DN tree for Users	
	Domain Name Tiree for Groups *		Suffix for Domain Name *	
	Enter DN tree for Groups		Enter suffix for DN	
	URL *		O Domain Name of bind user*	
	Erner Ulls,		Enter DN of bind user	
	Password * Enter Password		D User Filter * Enter User Sitter	
	User ID Attribute *		User Name Attribute *	
	Enter User Id Attribute		Enter User Name Attribute	
	User Mail Attribute		Group Name Attribute *	
	Enter User Mail Attribute		Enter Group Name Attribute	
	Domain Name field	Enter name for	Domain nama	
	Domain Name neid	Enter name for	Domain name.	
	Object Class for Users field	Enter a string a	s input.	
	Object Class for Groups field	Enter a string.		
	Domain Name Tree for Users field	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 w number.	ith ending port	
	Domain Name of Bind User field	Enter a string.		
	Password field	Enter Password format.	l as string	
	User Filter field	Enter filter nam	ne as string.	
	User ID Attribute field Enter a string.			
	User Name Attribute field	Enter a string.		
	User Mail Attribute field	Enter a string.		

Name	Description
	Group Name Attribute field Enter a string.

Name	Description
Neutron	

I

Description		
Neutron fields would change or Type Selection from Blueprint the options available for Neutro	t Initial Setup . Follo	
Create Blueprint configuration		'
Bueprint Initial Setup Physical Setup OpenStack Setup	1	
🗙 HA Proxy 🗸 Keystone 🗶 Newtron	✓ CDH → ✓ Garce → ✓	Center X LDAP
Tenant Network Type * VLAN		Mechanism Drivers *
NPV Hosts *		Tenant VLAN Ranges *
Compute Name -		Enter Tenant VLAN Ran
Findle Junto France		Provider VLAN Ranges
Tenant Network Type field	Auto Filled based of Tenant Network Ty in the Blueprint Ini page.	pe selected
Mechanism Drivers field	Auto Filled based of Tenant Network Ty in Blueprint Initial	pe selected
NFV Hosts field	Auto-filled with the you added in Server	
	If you select All in NFV_HOSTS: AL added to the Bluep can select one parti compute. For exam	L will be rint or you cular
	NFV_HOSTS: compute-server-1, compute-server-2.	
ENABLE_CAT	Optional to enable It is valid only when is enabled. By defa to false.	n NFV Host
REPREDIZCACHEINSPERSOCKEI	Allowed value of recache lines per soci between 1 and 32. only when ENABL set to True	ket is It is valid

Name	Description	
	Tenant VLAN Ranges field	List of ranges separated by comma form start:end.
	Provider VLAN Ranges field	List of ranges separated by comma form start:end.
	VM Hugh Page Size (available for NFV_HOSTS option) field	2M or 1G (optional, defaults to 2M)
	VM_HUGHPAGE_PERCENTAGE	Optional, defaults to 100%; car range between 0 and 100
	VSWITCH_WORKER_PROFILE	 Allowed only for VPP Available options are: numa_zero: The reserved cores always reside in NUMA node 0. Even : The reserved cores are evenly distributed across all NUMA
	NR_RESERVED_VSWICH_PCORES	Allowed only for VPP Number of cores associated to VPP, defaults to 2. Takes value of 2 through 6.
	Enable Jumbo Frames field	Enable the checkbox
	Enable VM Emulator Pin	 Optional, when NFV_HOSTS is enabled When a VM is spawned with this parameter enabled, NOVA allocate additional vCPU on top of the vCPU count specified in the flavor, and pin vCPU0 to the pCPU that is reserved in the pool.
	VM Emulator PCORES Per Socket	

Name	Description	
		• Optional, when ENABLE_VM_EMULAIOR_PIN is enabled.
		• Enter the number of cores per socket.
		• Defaults to 1. Values can range from 1 to 4.
	Nova Opt For Low Latency	 Optional. Used to enable additional real-time optimizations in OpenStack NOVA. Defaults to False.
	For Tenant Network Type Linux same but Tenant VLAN Range	

Name	Description
СЕРН	

Sale

I

Name	Des	scription		
	1.	1. When Object Stor blueprint initial setup	age Backend is selected p.	d Central in
		Create Blueprint configuration		I
		Burprint Initial Setup Physical Setup	penStack Setup	
		🗶 HA Proxy 🖌 Keystone		Cinder
		Ceph Mode *		Cluster ID *
		Central		Enter Ounter ID
		Monitor Host * Enter Monitor Host for CEPH		Monitor Members * Enter Monitor Members for CEPH
		Secret UUD *		Nova-Boot From
		Error Secret UUID for CEPH		Local
		NOW RED FOOL*		E CEPHINAT O
		CEPH Mode	By default Central.	
		Cluster ID	Enter Cluster ID.	
		Monitor Host	Enter Monitor Host fo	
		Monitor Members	Enter Monitor Membe	
		Secret UUID	Enter Secret UUID fo	
		NOVA Boot from	Drop down selection. CEPH or local.	You can choose
		NOVA RBD POOL	Enter NOVA RBD Po vms)	ol (default's to
		CEPH NAT	Optional, needed for C when mgmt network i	
	2.	When Object Storag blueprint initial setup	e Backend is selected I p.	Dedicated in
		Create Blueprint configuration		
		Buegrist Initial Setup Physical Setup	erdtack Setup	
		🗶 HA Proxy 🗸 Keystone 🔰	e Newton 🔪 🖉 CENT	Cinder 🗙 LDAP
		Ceph Mode * Dedicated		Nova Boot Prom Local
		 CEPH Mode: By d NOVA Boot: From CEPH or local. 	efault Dedicated. drop down selection y	ou can choose
	3.	When Object Storag blueprint initial setup	e Backend is selected N p.	VetApp in

Name	Description
	Create Blueprint configuration
	Biurprint Initial Setup Physical Setup OpenBlack Setup
	🗙 HA Proxy 🗸 Keystone 🗸 Neutron 🔀 CEAN 🗶 NetApp
	Ceph Mode *
	netap.
GLANCE	1. When Object Storage Backend is selected Central in blueprint initial setup.
	Create Blueprint configuration
	Bueprix initial Setup Physical Setup Openditack Setup
	🗶 HA.Proxy 🗸 Kaysone 🗸 Neutron 🗶 CEPH 🔀 Cancer 🗶 Cinder
	Store Backand * Glance RBD Pool * CEPH * Imogen
	CEPH • images Glance Client Key *
	Enter GLANCE Client Key
	When Object Storage Backend is selected Dedicated in blueprint initial setup. Create Blueprint configuration
	Bueprint Initial Setup Physical Setup OpenGlack Setup
	🗙 HA.Proxy 🖌 Keystone 🖌 Neutron 🗶 CEPH 📃 👷 Guarce 🗶 Cinder
	Store Backend *
	Note By default Populated for CEPH Dedicated with Store Backend value as CEPH.

ame	Description	
CINDER	By default Populated for CEPH Dedicated with Volum value as CEPH .	e Driver
	Create Blueprint configuration	l
	Bueprint Initial Setup Physical Setup OpenStack Setup	
	🗶 HA Proxy 🗸 Keystone 🗸 Neutron 🗶 CEPH 🗶 Gance 🗶 Croor	
	Volume Driver * Cinder RD	D Pool *
	CEPH + volumes	
	Cinder Client Kay*	
	Enter CHUER Client Key	
	2. When Object Storage Backend is selected Dedicated	lin
		+ 111
	hluoprint initial actum	
	blueprint initial setup.	
	blueprint initial setup.	
	blueprint initial setup. Create Blueprint configuration	
	Create Blueprint configuration Blueprint Initial Setup Physical Setup OpenStack Setup	
	Create Blueprint configuration Bueprint Initial Setup Physical Setup OpenStack Setup	
	Create Blueprint configuration Blueprint Initial Setup Physical Setup OpenStack Setup	
	Create Blueprint configuration Blueprine Initial Setup Physical Setup HA Prony Keystone Keys	
	Create Blueprint configuration Blueprint Initial Setup Physical Setup Voterse V Neutron X CEPH X Glance X C Voterse Driver*	
	Create Blueprint configuration Blueprint Initial Setup Physical Setup Voterse V Neutron X CEPH X Glance X C Voterse Driver*	
	Create Blueprint configuration Blueprint Initial Setup Physical Setup OpenStack Setup X HA Proxy Verystone Verystone CEPH X Glance X CE	
	Create Blueprint configuration Blueprint Initial Setup Physical Setup OpenStack Setup X HA Proxy Verystone Verystone CEPH X Glance X CE	
	Create Blueprint configuration Blueprint Initial Setup Physical Setup OpenStack Setup X HA Proxy Volume Driver* CEPH Volume Driver* CEPH v	

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.	

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Check one of the check boxes to • Provider Network • External Network For the Provider Network com	o specify a VMTP netw	work:
Provider NetworkExternal Network	-	
roi the rrovider Network con	anlata tha fallowing	
	ipiete the following:	
Create Blueprint configuration		
Bueprint Initial Setup Physical Setup OpenGlack Setup		
🗙 HA Prory 🔷 Keystone 🔪 🗙 Neutron 🗸	CEPH 🗸 🗸 Gance 🗸 🗸 Cinder 🔰	* wm *
Provider Network 🗇		
Network Name *	0	Subnet*
Enter Network Name		Enter Submet
Network IP Start *	0	Network IP End *
Enter IP Address		Erner IP Address
Network Gateway *	0	DNS Server *
Enter Network Gateway		Enter DNS Server
Segmentation ID *	0	
Enter Segmentation ID from 2 to 4004		
Network Name field	Enter the name for the network.	external
Subnet field	Enter the Subnet for I Network.	Provider
Network IP Start field	Enter the starting floa address.	ting IPv4
Network IP End field	Enter the ending floar address.	ting IPv4
Network Gatewayfield	Enter the IPv4 addres Gateway.	s for the
DNS Server field	Enter the DNS server address.	IPv4
Segmentation ID field	Enter the segmentation	on ID.
For External Network fill in th	he following details:	
Edenal Network		
		C. house
Network Name *		Subnet*
Enter Network Name		Enter Subnet
Network IP Start *		Network IP End
Enter IP Address		Enter IP Addre
		DNS Server*
Natural Colours		STAD OF YES
Network Gateway Enter Network Gateway		Enter DNS Ser

Name	Description		
	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.	
	Subnet field	Enter the Subnet for External Network.	
TLS optional section, this will be visible only if TLS is selected from Blueprint Initial Setup Page.	• External LB VIP FQDN	I - Text Field. Frue/False. By default this option	

Name	Description	
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	non-root login.	ptions for VIM Admins: rd, Public key or both for the must be configured when Permit
	Create Blueprint configuration	
	Blueprint Initial Setup Physical Setup	OpenStack Setup ✓ Neutron ★ CEPH ★ Glance ★ Cind
	Username*	Password Public key
	Note: Remove empty records before valid	ation.
	Permit root login	
	User Name	Enter username for Vim Admin.
	Password	Password field. Admin hash password should always start with \$6.
	Public Key	Public key for vim admin should always start with 'ssh-rsa AAAA'

Name	Description	
SwiftStack optional section will be visible only if SwiftStack is selected from Blueprint Initial Setup Page. SwiftStack is only supported with KeyStonev2 . If you select Keystonev3 , swiftstack will not be available to configure.	Following are the options t	hat needs to be filled for SwiftStack:
	Create Blueprint configuration	
	Diseptint Initial Serup Physical Serup OpenStack Serup	1
	🗙 HA.Proxy 🖌 Keystone 🗙 Neutron	CEPH CEPH Gance Cinder X WittP TLS
	Chuster End Point * Enter Cluster End Point P/Domain	Resolar Prefx * Enter Resolar Prefx
	Admin User *	Admin Paseword *
	Enter Admin User name	Enter Password
	Admin Tenant * Enter Admin Tenant name	Protocol * Into
	Cluster End Point Admin User	IP address of PAC (proxy-account-container) endpoint. 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
	11	1

If the external_lb_vip is behind a NAT route provide a list of those addresses. Horizon Allowed Hosts uses comma separ addresses and/or DNS names for horizon h	rated list of IP
addresses and/or DNS names for horizon h	
Create Blueprint configuration	
•	
Blueprint Initial Setup Physical Setup OpenStack Setup	
🗙 HA Proxy 🗸 Keystone 🗸 Neutron 🔰	X CEPH X Glance X Cinder
Horizon Allowed Hosts *	•
NAT IP	 Action ~
No Data Available	
I4 4 1 / 1 P PI 5 items per page	
	and a second se second second sec

Name	Description
Vim LDAP Admins: Optional entry to support LDAP for admin access to management node. For this feature, TLS has to be enabled for the external api (i.e. external_lb_vip_tls: True).	Following are the values to be filled to add vim LDAP admins:
	 domain_name: It is a mandatory field. Indicates the domain name to define vim LDAP admins. Idap_uri : It is a mandatory field. The ldap_uris must be secured over ldaps. Idap_search_base: It is mandatory. Enter search base. Idap_schema: Optional. Enter the schema. Idap_user_object_class: Optional. Indicates the posixAccount. Idap_user_uid_number: Optional. Enter the user id number. Idap_group_member: Optional. Enter the group id number.

Name		Description			
	FO tab is available in Openstack setup, e Tenant type ACI/VLAN is selected in	Name	Description		
blueprint initial setup. Note When ACI/VLAN is selected then ToR switch from initial setup is mandatory.	APIC Hosts field	Enter host input. Example: <ip1 host1>:[port] . max of 3, min of 1, not 2;</ip1 host1>			
	apic_username field	Enter a string format.			
		apic_password filed	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 10.0.0/16		
	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		
	is available in Openstack setup, when Type is VTS/VLAN selected.	Name	Description		
If vts day	y0 is enabled then SSH username and	VTS Day0 (checkbox)	True or false default is false.		
SSH password is mandatory. If SSH_username is input present then SSH	VTS User name	Enter as string does not contain special characters.			
passwor	d is mandatory vice-versa	VTS Password	Enter password		
		VTS NCS IP	Enter IP Address format.		
		VTC SSH Username	Enter a string		
		VTC SHH Password	Enter password		

10. For SolidFire, enter the following:

Name	Description
------	-------------

SolidFire is visible for configuration on day0 SolidFire is not allowed as a day-2 deployment option		reate Blueprint configu	ration				3	
SolidFire is always available with CEPH.	ł	Bueprini Initial Setup - Physica	Setup	OpenStack Setup				
	>	🗙 HA Prosy 🗸 Key	store	✔ Nestron	🖌 СРН	🖌 Glance	>~	Ceder
	-	Cluster MVP *					0	Cluster SV
		172.23.105.217						10.3.3.5
		Admin Username *					0	Admin Pas
		Cluster MVIP ield		nagement] ster.	IP of Sol	lidFire		
		Cluster SVIP field	I Sto	orage VIP o	f SolidF	ire cluster	:	
	A	Admin Username	Ad	min user of	n SolidF	ire cluster		
	A	Admin Password		min passwo ster.	ord on S	olidFire		

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

Name	Description							
Syslog Export	Following are the options for Syslog Settings:							
	User can add maximum of three entries.							
	To add new SysLog information, click on Add SysLog button, fill all the required information listed below and hit Save button.							
	Blueprint Initial Serup Physical Serup OpenStrack Serup Services Setup							
	System Execution							
	Remote host " Protocol " Facility " Severity " Port " Clients " Action "							
	11.1.1 udp locals debug 514 BLK X 22.2.2 udp locals debug 514 BLK X							
	HITIGH							
	Remote Host Enter Syslog IP address.							
	Protocol Only UDP is supported.							
	Facility Defaults to local5.							
	Severity Defaults to debug.							
	Clients Defaults to ELK.							
	PortDefaults to 514 but can be modified by the User.							

Name	Description	Description				
NFVBENCH	NFVBENCH enable checkbox by default isfalse.					
	Add ToR information con	nect to Swi	tch:			
	Biveprint Initial Setup Physical Setup OpenStack 5	Inter Services Setup				
	V NEVNENCI					
	a frute					
	Add tor line connected to switch: Select YOR Switches *		Switch- 113-N93729X-2 *	•		
	TOR Bulkshes		eth1/33,e8h1/34			
	14 4 1 23 B BI					
	NIC Ports: INT3	0	INT2	•		
	1 NO Silon		2			
	2					
	 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.					
	NIC Slot: Optional input, should be in the range of 1-6, indicates which NIC to use in case there are multiple NICs. If nic_slot is defined, then nic_port has to be defined and vice-versa.					
ENABLE ESC PRIV	Enable the checkbox to se	t it og Trug	Der de Constante de France			

ame	Description				
onic	Following ar	e the options for Ironic :			
	• Ironic is applicable only for C-series and OVS/VLAN tenant network.				
		s available in optional service list. If ironic is enabled, the Ironic at under Networks Segment and Ironic Switch Details under Ironic datory.			
	Create Bluep	orint configuration Save			
	Blueprint Initial S	Setup Physical Setup OpenStack Setup Ironic Setup			
	X Ironic				
		nic segment under Networking section Is enabled. Then Please take a look at ironic_inventoryyami.EXAMPLE and add the file			
	Ironic Switch I Switch Type				
	Nexus HostName	• VuserName Password SSH IP Switch			
		VserName Password SSH IP Switch No Data Available			
	HostName	✓ UserName ✓ Password ✓ SSH IP ✓ Switcl No Data Available			
	HostName Id d	ViserName Password SSH IP Switch No Data Available			
	HostName Ia a Switch Type	UserName Password SSH IP Switch No Data Available No Data Available It can be Nexus, ACI, or BypassNeutron It can be Nexus, ACI, or BypassNeutron Enter ironic hostname. Required only if Switch Type is ACI or			
	HostName RestName Switch Type Hostname	UserName Password SSH IP Switch No Data Available No Data Available It can be Nexus, ACI, or BypassNeutron It can be Nexus, ACI, or BypassNeutron Enter ironic hostname. Required only if Switch Type is ACI or BypassNeutron. Enter ironic username. Required only if Switch Type is ACI or Enter ironic username. Required only if Switch Type is ACI or			
	HostName Switch Type Hostname Username	UserName Password SSH IP Swhot No Data Available 1 [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] [1]			

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

- **Step 5** Blueprint can also be created using an **Upload functionality**:
 - In Blueprint Initial Setup.
 - Click Browse in the blueprint initial setup.
 - · Select the YAML file you want to upload.
 - Click Select 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 valid 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 sublinks available to manage the day-n operation of the pod. However, often Insight cross-launches the relevant services, through delegating the actual rendering to the individual services.

Monitoring the Pod

Cisco VIM 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	Login a	s POD User.
Step 2	Naviag	te to POD.
Step 3	Naviga	te to Post-install
Step 4		Ionitoring thentication Required browser pop up is displayed.
Step 5	Enter the username as admin.	
Step 6		
	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 2Click 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 Login as POD User.
- **Step 2** Naviagte to **POD**.
- Step 3 Navigate to Post-install
- Step 4 Click Reconfigure.
- Step 5 Click NFVI Monitoring
- Step 6 Click the link Click here to view NFVI monitoring.

You will be redirected to NFVI monitoring page

Run VMTP

VIM 2.0, provides an integrated data and control plan test tool (called VMTP).VMTP helps you to test the cloud at any given time.

Run VMTP is divided in two sections:

- **Results for Auto Run**: Auto run shows the results of VMTP which was run during the cloud deployment (Blueprint Installation).
- Results for Manual Run: To run VMTP on demand click Run VMTP.



Note If VMTP stage was skipped or not-run during Blueprint Installation, this section of POST Install gets disabled for the user.

Run CloudPulse

In VIM, we provide an integrated tool, called Cloud Pulse, that periodically checks the cloud services endpoint. The results of these tests are reflected under the Cloud Pulse link. You can also run these API endpoint tests on demand, and fetch the result of these tests by refreshing the table.

Endpoints Tests:

- 1. cinder_endpoint
- 2. glace_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 NFVbench

You can execute **Run NFV Bench** for **B**and**C** series Pod, through Cisco VIM Insight. On a pod running with Cisco VIM, 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 as **POD User.**
- **Step 2** Navigate to **POD.**
- **Step 3** Navigate to **Postinstall.**
- Step 4 Click Run NFV Bench.
- **Step 5** Click 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: 1000000000bps (=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 Run Fixed Rate Test. Once Fixed rate test is finished, it displays each type of test with its own settings and results.

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 Login as POD User.
- **Step 2** Naviagte to **POD**.
- Step 3 Navigate to Post-install
- Step 4 Click System Update.
- Step 5 Click Openstack Password
- Step 6 Click Browse button.
- **Step 7** Select the valid tar file.
- **Step 8** 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.

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 Login as POD User.
- **Step 2** Naviagte to **POD**.
- Step 3 Navigate to Post-install
- Step 4 Click Reconfigure.
- Step 5 Click Openstack Password

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.

Reconfiguring OpenStack Password

Cisco VIM has been designed with security to accommodate users password policy.

There are two options to regenerate the Password:

- 1. Regenerate all passwords: Check the Regenerate all passwords checkbox and click Set Password. This automatically regenerates all passwords in alphanumeric format.
- 2. Regenerate single or more password: If you want to set a specific password for any service like Horizon's ADMIN_USER_PASSWORD you can add it by doing an inline edit. Double click field under Password and then enter the password which enables **Set Password**.



Note During the reconfiguration of password, all other pod management activities are disabled. Postupdate, normal cloud management commences.

Reconfiguring 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 Login as POD User.
- **Step 2** Naviagte to **POD**.
- Step 3 Navigate to Post-install
- Step 4 Click Reconfigure OpenStack Config.
- **Step 5** Click on the specific item to be changed and updated; For TLS certificate it is the path to certificate location.
- **Step 6** 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.

Reconfiguring Optional Services

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

- Step 1 Login as POD User.
- **Step 2** Naviagte to **POD**.
- Step 3 Navigate to Post-install
- Step 4 Click Reconfigure Optional Services.
- **Step 5** Choose the right service and update the fields with the right values.
- **Step 6** 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 than 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		

Optional Features	Repeated re-deployment Options
DHCP Reservation for Virtual MAC Addresses	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
SWIFTSTACK	True
SYSLOG_EXPORT_SETTINGS	False
TENANT_VLAN_RANGES	True
TORSWITCHINFO	False
VIM_ADMINS	True
VMTP	False
VTS_PARAMETERS	False
AUTOBACKUP	``
	True
Heat	False
Ceilometer	False
HTTP Proxy Server	True
HTTPS Proxy Server	True
Enable TTY LOGGING	False
MGMTNODE_EXTAPI_REACH	False
Cobbler	True
SNMP	True

Desc MAC address True	Optional Features	Repeated re-deployment Options
Base MAC address	Base MAC address	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 Log in as POD User.

Step 2 Navigate to **Pod User Administration** and click **Manage Roles**. By default you will see a full-pod-access role in the table.

- **Step 3** Click Add Role to create a new role.
- **Step 4** Complete the following fields on the **Add Roles** page in Cisco VIM Insight:

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

Field Name	Field Description
Permission	Check the Permission checkbox to select the permission.

Step 5 Click **Save**. Once, the Blueprint is in an 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 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.