

Installing Cisco Container Platform on vSphere Web Client

This chapter contains the following topics:

- Installing Cisco Container Platform, on page 1
- Upgrading Cisco Container Platform, on page 9
- Uninstalling Cisco Container Platform, on page 11
- Backing Up and Restoring Cisco Container Platform, on page 11

Installing Cisco Container Platform

Installing Cisco Container Platform is a three-step process:

• Importing Cisco Container Platform Tenant Base VM

The Cisco Container Platform tenant base VM contains the container image and the files that are necessary to create the tenant Kubernetes clusters that are used for configuring monitoring, logging, container network interfaces (CNI), and persistent volumes.

• Deploying Installer VM, on page 3

The Installer VM contains the VM image and the files for installing other components such as Kubernetes and the Cisco Container Platform application.

• Deploying Cisco Container Platform, on page 5

The Cisco Container Platform Control Plane is set up using an installer UI. After the installer VM is switched on, the URL of the installer appears on the vCenter **Web console**.

Importing Cisco Container Platform Tenant Base VM

Before you begin

- Ensure that you have configured the storage and networking requirements. For more information, see Storage Requirements and Network Requirements.
- Ensure that vSphere has an Enterprise Plus license, which supports DRS and vSphere HA.

Step 1	Log in to the VMware vSphere Web Client as an administrator.				
Step 2	In the Navigation pane, right-click the cluster on which you want to deploy Cisco Container Platform, and then choose Deploy OVF Template . The Deploy OVF Template wizard appears.				
Step 3	In	he Select template screen, perform these steps:			
	a)	Click the URL radio button, and enter the URL of the Cisco Container Platform tenant OVA.			
		Alternatively, click the Local file radio button, and browse to the location where the Cisco Container Platform tenant OVA is saved on your computer.			
	b) Click Next.				
Step 4	In the Select name and location screen, perform these steps:				
	a)	In the Name field, enter a name for the Cisco Container Platform tenant base VM.			
		Note You need to note down the Cisco Container Platform tenant base VM name as you will need to specify it while creating a cluster.			
	b) c)	In the Browse tab, choose the data center where you want to deploy Cisco Container Platform. Click Next.			

- **Step 5** In the Select a resource screen, choose a cluster where you want to run the Cisco Container Platform tenant base VM, and then click Next.
- **Step 6** In the **Review details** screen, verify the Cisco Container Platform tenant base VM details, and then click **Next**. The **Select storage** screen appears.

Figure 1: Select Storage Screen

1 Select template 2 Select name and location	Select storage Select location to store the	e files for the deployed template.			
3 Select a resource	Select virtual disk format:	Thin provision	•		
5 Selectstorage	VM storage policy: None Characterizations from Storage DBS sturburg				
6 Select networks	Filter				
8 Ready to complete	Datastores Datastore	e Clusters			er 👻
	Name	1 A Status	VM storage policy	Capacity	Free
	🔾 🚮 Netapp-1	Alert	-	972.8 MB	6.83 MB
	Retapp-1 Intapp-2	 Alert Normal 		972.8 MB 1.9 TB	6.83 MB 1.34 TB
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		Alert Normal Normal Normal Normal Normal	- VM Encryption P	972.8 MB 1.9 TB 1.74 TB 1.74 TB 884.75 GB 439.5 GB	6.83 MB 1.34 TB 1.65 TB 1.45 TB 471.22 GB 412.81 GB
		Alert Normal Normal Normal Normal Normal Normal Normal Normal	VM Encryption P	972.8 MB 1.9 TB 1.74 TB 1.74 TB 884.75 GB 439.5 GB 439.5 GB	6.83 MB 1.34 TB 1.55 TB 1.45 TB 471.22 GB 412.81 GB 425.43 GB
	Ketapp-1 Ketapp-1 Event Antipage E	Alert Normal Normal	VM Encryption P	972.8 MB 1.9 TB 1.74 TB 1.74 TB 884.75 GB 439.5 GB 439.5 GB 439.5 GB	6.83 MB 1.34 TB 1.55 TB 1.45 TB 471.22 GB 412.81 GB 425.43 GB 255.21 GB

Step 7

- In the **Select storage** screen, perform these steps:
 - a) From the Select virtual disk format drop-down list, choose Thin Provision to allocate storage on demand.
 - b) In the Filters tab, choose a destination datastore for the Cisco Container Platform tenant base VM.
 - c) Click Next.

The Select networks screen appears.

Figure 2: Select Networks Screen

8	Deploy OVF Template			(?) ₩
> >	1 Select template 2 Select name and location	Select networks Select a destination network for each source network	k	
> >	3 Select a resource 4 Review details	Source Network	Destination Network	
Ĭ	5 Select storage 6 Select networks		No. 101 102 102 102 102 103 103 104 104 104 104	
	7 Customize template 8 Ready to complete		Browse	
		Description -		
		IP Allocation Settings		
		IP blobcol: IbA4	er arrocation: Static - Manual 😈 Back Next Finish	Cancel

Step 8 In the **Select networks** screen, perform these steps:

- a) From the **Destination Network** column, choose a network for each source network that is available in the Cisco Container Platform tenant base VM.
- b) Click Next.

Step 9 In the Customize template screen, click Next.

Step 10 In the **Ready to complete** screen, verify the Cisco Container Platform tenant base VM settings, and then click **Finish**. The Cisco Container Platform tenant base VM import takes few minutes to complete.

Deploying Installer VM

Before you begin



Note This deployment is for new installations of Cisco Container Platform. For upgrades, see Upgrading Cisco Container Platform, on page 9.

Ensure that you have imported the latest Cisco Container Platform tenant base VM to the vCenter instance. For more information, see Importing Cisco Container Platform Tenant Base VM, on page 1.

- Step 1
 Log in to the VMware vSphere Web Client as an administrator.

 Step 2
 In the Navigation pane, right-click the cluster on which you want to deploy Cisco Container Platform, and then choose Deploy OVF Template. The Deploy OVF Template wizard appears.

 Step 2
 Log in to the VMware vSphere Web Client as an administrator.
- **Step 3** In the **Select template** screen, perform these steps:

- a) Click the URL radio button, and enter the URL of the Installer OVA.
 Alternatively, click the Local file radio button, and browse to the location where the installer OVA is saved on your computer.
- b) Click Next.
- **Step 4** In the **Select name and location** screen, perform these steps:
 - a) In the Name field, enter a name for the installer VM.
 - b) In the Browse tab, choose the data center where you want to deploy Cisco Container Platform.
 - c) Click Next.
- **Step 5** In the Select a resource screen, choose the cluster where you want to run the installer VM, and then click Next.
- **Step 6** In the **Review details** screen, verify the template details, and then click **Next**.
- **Step 7** In the **Select storage** screen, perform these steps:
 - a) From the Select virtual disk format drop-down list, choose Thin Provision to allocate storage on demand.
 - b) In the Filters tab, choose a destination datastore to store the installer VM.
 - c) Click Next.
- **Step 8** In the **Select networks** screen, perform these steps:
 - a) From the **Destination Network** column, choose a network for each source network that is available in the installer VM.

Note The selected network must have access to vCenter and the tenant VM networks.

b) Click Next.

The Customize template screen appears.

Figure 3: Customize Template Screen

Deploy OVF Template		?**
 1 Select template 2 Select name and location 	Customize template Customize the deployment proper	ties of this software solution.
✓ 3 Select a resource	All properties have valid value	s Show next Collapse all
4 Review details		1 setting
 Select storage 6 Select networks 	01. SSH public key for	SSH public key used to access installer node. Enter the public key to be pasted into OpenSSH authorized_keys file, typically of the format 'ssh-rsa' or 'ecdsa-sha2-nistp256'
7 Customize template	installer node access	
8 Ready to complete	2. Advanced	4 settings
		Back Next Finish Cancel

Step 9

- In the **Customize template** screen, enter the following optional parameters to customize the deployment properties:
 - a) Expand **CCP**, in the **SSH public key for installer node access** field, enter an ssh public key. You can use this key to ssh to the installer VM.

Note

• Ensure that you enter the public key in a single line.

- If you do not have an SSH key pair, you can generate it using the ssh-keygen command.
- b) Expand Advanced, in the CIDR for kubernetes pod network field, 192.168.0.0/16 is displayed as the default pod network CIDR of the Kubernetes cluster for the installer. If the CIDR IP addresses conflict with the tenant cluster VM network or the vCenter network, you need to set a different value for the CIDR.
- c) Click Next.
- **Step 10** In the **Ready to complete** screen, verify the installer VM deployment settings, and then click **Finish**.

Step 11 Click the **Power on** button to switch on the VM.

Figure 4: Switching on Installer VM

		Web console	 Power on 				_
mware [,] vSphere	Web Clie	ent n≣ Updated at 3:02	PM 🖸 Administratore	VSPHERE.LOCAL - I Hel	p - I Q Search		
Navigator	x	3 🖌 🖌	Work In Progress				*
Back P Back P Back P C	Q •	G S N C P S D N U Powered Off	Deploy OVF Templ Object Netapp-1	ite ite ite	Severity	(6) (5) (4) (3) Name tical Datasto	* :: * :: * ::
			All (4) *				•
Recent Objects	ŤΧ	T Recent Tasks				*	×
Viewed	betear	12 -			Q Filter		•
B	A	Task Name	Target	Status	Initiator	Ques	ae A
18		Check new notifications	0	✓ Completed	VMware vSp	shere U	
-Fix		Power Off virtual machine	即	✓ Completed	VSPHERE.L	OCALV	
		Power On virtual machine	B	✓ Completed	System		
00	-	Initialize powering On	Da	✓ Completed	VSPHERE.L	OCALV	
10		Deploy OVF template	8	✓ Completed	VSPHERE.L	OCALV	
PD .		Import OV/E package	68	Completed	venhere locs	ali) & cimi	

Once the installer VM is switched on, the installer UI takes a few minutes to become ready. You can view the status of the Installer UI using the Web console of vCenter. When the installer UI is ready, you can access it using the URL from the Web console.

Deploying Cisco Container Platform

The Cisco Container Platform Control Plane is set up using an installer UI. After the installer VM is switched on, the URL of the installer appears on the vCenter **Web console**.

Step 1Obtain the URL from the vCenter Web console and use a browser to open the installer UI.
The Welcome screen appears.

Figure 5: Welcome Screen

Container Platform Installer		
Welcome to the Cisc Let's get started.	Choose your installation method.	
	4	
To create a new installation.	To upgrade an existing installation.	

Step 2 Click Install.

The Connect your Cloud screen appears.

Figure 6: Connect your Cloud Screen

،۱۱،۱۱، cısco	Container Platform	Installer	×
• ····· • ····· •	01 Connect your Cloud 02 Placement Properties 03 Cluster Configuration 04 Control Plane Settings	Connect your Cloud • VCENTER HOSTNAME OR IP ADDRESS • PORT • VCENTER USERNAME • VCENTER USERNAME • VCENTER PASSPHRASE • • • • • • • • • • • • • • • • • • •	
		NEX	

Step 3 In the **Connect your Cloud** screen, enter the following information:

- a) In the VCENTER HOSTNAME OR IP ADDRESS field, enter the IP address of the vCenter instance that you want to use.
- b) In the **PORT** field, enter the port of the vCenter instance that you want to use.
- c) In the VCENTER USERNAME field, enter the username of the user with administrator access to the vCenter instance.
- d) In the VCENTER PASSPHRASE field, enter the passphrase of the vCenter user.
- e) Click CONNECT.

The Placement Properties screen appears.

Figure 7: Placement Properties Screen

 cise	^{ll} Container Platfo	orm Installer			×
o o	01 Connect your Cloud 02 Placement Properties 03 Cluster Configuration 04 Control Plane Settings	Placement Properties • vsphere datacenter Hyperflex • vsphere cluster hx1 • vsphere datastore • vsphere network	✓		
				ВАСК	NEXT

- **Step 4** In the **Placement Properties** screen, enter the following information:
 - a) From the VSPHERE DATACENTER drop-down list, choose the datacenter.
 - b) From the VSPHERE CLUSTER drop-down list, choose the cluster.
 - c) From the VSPHERE DATASTORE drop-down list, choose the datastore.
 - d) From the VSPHERE NETWORK drop-down list, choose the network.
 - e) In the **BASE VM IMAGE** field, enter the Cisco Container Platform tenant base VM name from Step 5 of the Importing Cisco Container Platform Tenant Base VM task.
 - f) Click NEXT.

The Cluster Configuration screen appears.

Figure 8: Cluster Configuration Screen

ابیالی cisco	" Container Platfor	m Installer	×
o	01 Connect your Cloud	Cluster Configuration	
		* NETWORK PLUGIN FOR TENANT K8S CLUSTERS	
0	O2 Placement Properties	Calico	
:	03	CIDR FOR KUBERNETES POD NETWORK	
\bigcirc	Cluster Configuration	* CCP CONTROLLER MASTER NODE VIRTUAL IP	
		the sale of a	
•	04 Control Plane Settings	* USERNAME FOR NODE ACCESS	
4	0	- dusta	•
		Г	BACK

- **Step 5** In the Cluster Configuration screen, enter the following information:
 - a) From the **NETWORK PLUGIN FOR TENANT K8S CLUSTERS** drop-down list, choose one of the following options for network connectivity:

- Calico
- ACI
- Contiv (Tech Preview)
- b) In the CIDR FOR KUBERNETES POD NETWORK field, 192.168.0.0/16 is displayed as the default pod network CIDR of the Kubernetes cluster for the installer. If the CIDR IP addresses conflict with the tenant cluster VM network or the vCenter network, you need to set a different value for the CIDR.
- c) In the CCP CONTROLLER MASTER NODE VIRTUAL IP field, enter the IP address that is used to support a Cisco Container Platform upgrade.
- d) In the USERNAME FOR NODE ACCESS field, enter the username of the user who can ssh into the Cisco Container Platform Control Plane nodes.
- e) In the SSH PUBLIC KEY FOR INSTALLER NODE ACCESS field, enter an ssh public key. You can use this key to ssh to the Control Plane nodes.
 - Ensure that you enter the public key in a single line.
 - If you do not have an SSH key pair, you can generate it using the ssh-keygen command.
- f) Click NEXT.

The Control Plane Settings screen appears.

Figure 9: Control Plane Settings Screen

uluilu cisco	Container Platform I	nstaller		×
01	Í.	Control Plane Settings		
Con 02	ement Properties	* CONTROL PLANE NAME		
	ter Configuration	* CCP VERSION 1.5.0-x-10-ga03cffa		
 O4 Gamma 	tral Plana Settings	Customer CREATE YOUR ADMIN PASSPHRASE		
<	ti of Flahe Settings		ВАСК	DEPLOY

- **Step 6** In the **Control Plane Settings** screen, enter the following information:
 - a) In the **CONTROL PLANE NAME** field, enter the name of the Cisco Container Platform cluster.
 - The cluster name must start with an alphanumeric character (a-z, A-Z, 0-9). It can contain a combination of hyphen (-) symbols and alphanumeric characters (a-z, A-Z, 0-9). The maximum length of the cluster name is 46 characters.
 - Deployment of the installer VM fails if another Control Plane cluster with the same name already exists on the same datastore. You must ensure that you specify a unique name for the Control Plane cluster.

- b) In the CCP VERSION field, enter the version of the Cisco Container Platform cluster.
- c) From the CCP LICENSE ENTITLEMENT drop-down list, choose an entitlement option that indicates the type of Smart Licensing that you want to use.

Note The Partner option will only be used in conjunction with a Not for Retail (NFR) or Trial license.

- d) In the **CREATE YOUR ADMIN PASSPHRASE** field, enter the passphrase you want to use for an **Administrator** user of the Cisco Container Platform Control Plane.
- e) Expand Advanced Settings, in the NTP SERVERS field, enter the list of any NTP servers in your environment.
- f) Click **DEPLOY** and then monitor the installation progress through the vCenter **Web console**.
- **Note** You can use the ssh private key to access the Installer, control plane VMs, or the tenant cluster VMs. However, logging into these VMs using a username and password is not supported.

Upgrading Cisco Container Platform

Upgrading Cisco Container Platform and upgrading tenant clusters are independent operations. You must upgrade the Cisco Container Platform to allow tenant clusters to upgrade. Specifically, tenant clusters cannot be upgraded to a higher version than the Control Plane. For example, if the Control Plane is at version 1.10, the tenant cluster cannot be upgraded to the 1.11 version.

Upgrading Cisco Container Platform is a three-step process:

- Upgrading Cisco Container Platform Tenant Base VM, on page 9
- Deploying Upgrade VM, on page 9
- Upgrading Cisco Container Platform, on page 10



Note

Taking a snapshot of the VMs managed by Cisco Container Platform is currently unsupported and results in failures during upgrades.

Upgrading Cisco Container Platform Tenant Base VM

You can follow the instructions in the Installing Cisco Container Platform > Importing Cisco Container Platform Tenant Base VM section.



Note

The older tenant images are no longer required, you can delete them from your vCenter instance.

Deploying Upgrade VM

Follow the instructions in the Installing Cisco Container Platform > Deploying Installer VM section to deploy the latest VM.

It may take a few minutes for the deployment of the VM to complete. You can view the status of the upgrade task using the Web console of vCenter.

Note Depending on CNI usage, the port used to access Cisco Container Platform may change as part of the upgrade.

Upgrading Cisco Container Platform

The Cisco Container Platform Control Plane is upgraded using an installer UI. After the installer VM is switched on, the URL of the installer appears on the vCenter **Web console**.

- **Step 1** Obtain the URL from the vCenter **Web console** and use a browser to open the installer UI.
- Step 2 Click Upgrade.
- **Step 3** In the **Connect your Cloud** screen, enter the following information:
 - a) In the VCENTER HOSTNAME OR IP ADDRESS field, enter the IP address of the vCenter instance that you want to use.
 - b) In the **PORT** field, enter the port of the vCenter instance that you want to use.
 - c) In the VCENTER USERNAME field, enter the username of the user with administrator access to the vCenter instance.
 - d) In the VCENTER PASSPHRASE field, enter the passphrase of the vCenter user.
 - e) Click CONNECT.
- **Step 4** In the **Placement Properties** screen, enter the following information:
 - a) In the CISCO CONTAINER PLATFORM (CCP) URL field, enter the URL for accessing Cisco Container Platform in the following format:

https://<CCP IP Address>:<Port>

- b) From the VSPHERE DATACENTER drop-down list, choose the datacenter.
- c) From the BASE VM IMAGE drop-down list, choose the Cisco Container Platform tenant base VM name.
- d) Click NEXT.
- **Step 5** In the **Cluster Configuration** screen, enter the following information:
 - a) In the **CIDR FOR KUBERNETES POD NETWORK** field, **192.168.0.0/16** is displayed as the default pod network CIDR of the Kubernetes cluster for the installer. If the CIDR IP addresses conflict with the tenant cluster VM network or the vCenter network, you need to set a different value for the CIDR.
 - b) In the USERNAME FOR NODE ACCESS field, enter the username of the user who can ssh into the Cisco Container Platform Control Plane nodes.
 - c) In the SSH PUBLIC KEY FOR INSTALLER NODE ACCESS field, enter an ssh public key.

You can use this key to ssh to the Control Plane nodes.

• Ensure that you enter the public key in a single line.

- You can use the private key to securely connect to the Cisco Container Platform Control Plane VMs through SSH, after installation.
- If you do not have an SSH key pair, you can generate it using the ssh-keygen command.
- d) Click NEXT.

Step 6 In the **Control Plane Settings** screen, enter the following information:

a) In the **CONTROL PLANE NAME** field, enter the name of the Cisco Container Platform cluster.

Note You need to enter the same cluster name that you used during installation.

 b) From the CCP LICENSE ENTITLEMENT drop-down list, choose an entitlement option that indicates the type of Smart Licensing that you want to use.

Note The **Partner** option will only be used in conjunction with a **Not for Retail (NFR)** or **Trial** license.

- c) In the ENTER CURRENT ADMIN PASSPHRASE field, enter the current passphrase for an Administrator user of the Cisco Container Platform Control Plane.
- d) Click UPGRADE.

Uninstalling Cisco Container Platform

Uninstalling Cisco Container Platform removes all containers and services associated with it. You will no longer be able to create or manage tenant clusters on this Cisco Container Platform instance.

Step 1 Open the Cisco Container Platform web interface, log in to the Control Plane cluster using its VIP address, and then delete all the Kubernetes tenant clusters that belong to the Cisco Container Platform instance.

For more information on deleting Kubernetes clusters, refer to the Cisco Container Platform User Guide.

- **Step 2** Follow these steps to delete the Control Plane and installer node VMs:
 - a) In the vSphere web client, right-click the VM, choose **Power off**, and then click **Yes** in the confirmation dialog box.
 - b) Right-click each VM and choose Delete from Disk.
- **Step 3** Follow these steps to delete the Control Plane cluster data disks:
 - a) In the vSphere web client, choose **Home** > **Storage**.
 - b) From the left pane, choose the datastore that is used to install the Control Plane VMs. This is the same as the datastore to which the installer VM is imported to unless you have changed it in the installer UI.
 - c) If you have installed the Control Plane using the default name, right-click the folder name with the prefix **ccpcontrol** or if you have provided a different name to the Control Plane in the installer UI, right-click the folder with that name.
 - d) Choose **Delete File**.

Backing Up and Restoring Cisco Container Platform

This chapter contains the following topics:

Backing Up Cisco Container Platform

You can back up the Cisco Container Platform application data that pertains to the following components:

Application users

- Virtualization providers
- Tenant clusters



Note The logging or monitoring data from Prometheus, Grafana, and the EFK stack is not included in the backup archive.

Backing Up Cisco Container Platform v1.5.0+

Step 1 Log in to the console of the master node of Cisco Container Platform Control Plane.

Step 2 Run the following command.

/ccp_related_files/percona_backup.sh ./backup.tar

- **Step 3** Copy the backup.tar backup archive to a secure location.
 - **Note** You must ensure that the backup archive is maintained securely as anyone with access to it has administrative capabilities on all tenant clusters.

Backing Up Cisco Container Platform v1.1.0-1.4.x

Step 1 Log in to the console of the master node of Cisco Container Platform Control Plane.

```
Step 2 Run the following commands.
```

```
kubectl exec mysql-0 -- mkdir -p /tmp/backup
kubectl exec -t mysql-0 -- bash -c "rm -Rf /tmp/backup/* && xtrabackup --backup
--target-dir=/tmp/backup -p$(kubectl get secret mysql -o jsonpath='{.data.mysql-root-password}'|base64
-d) --alsologtostderr=true"
kubectl exec mysql-0 -- tar -cvf /tmp/backup.tar /tmp/backup
kubectl cp mysql-0:/tmp/backup.tar ./backup.tar
```

- **Note** Depending on the memory usage of the database, any of the preceding commands may fail with an **ExitCode:137** error code. It is safe to run these commands multiple times until they succeed.
- **Step 3** Copy the backup.tar backup archive to a secure location.
 - **Note** You must ensure that the backup archive is maintained securely as anyone with access to it has administrative capabilities on all tenant clusters.

Restoring Cisco Container Platform

You can restore a valid backup to a new Cisco Container Platform Control Plane that has control over all existing Cisco Container Platform settings and tenant clusters.

Restoring Cisco Container Platform Control Plane data is slightly different from traditional restore methods. The data can be restored into a version of Cisco Container Platform newer than the version from which the backup was made.

For example, you may back up the data from a Cisco Container Platform Control Plane v1.4 installation, and then, as part of a restore or recovery process, restore that data into a new Cisco Container Platform Control Plane v1.5 installation.

You can restore data into any version of Cisco Container Platform v1.5 or later. For example, because upgrades are supported from v1.4 to v1.5, it is possible to restore a v1.4 backup into a new Cisco Container Platform v1.5 install.

- **Step 1** Power off the VMs that belong to the previous Control Plane instance.
- **Step 2** Install a new Cisco Container Platform Control Plane v1.5.0+.
- **Step 3** Copy the backup from the secure location to Control Plane master.

scp ./backup.tar <control_plane_master>:/tmp/backup.tar

- **Step 4** Log in to the console of the master node of Cisco Container Platform Control Plane.
- **Step 5** Run the following command.

/ccp_related_files/percona_restore.sh /tmp/backup.tar