



# Installing Cisco ICFP on VMware

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## Cisco ICFP Software

The Cisco ICFP software is available for download from [Cisco.com](https://www.cisco.com). For assistance, contact your Cisco representative.

The Cisco ICFP software package (`icfp-dk9-3.1.1-pkg.zip`), contains the following files:

File	Description
<code>icfp-3.1.1.ova</code>	Cisco ICFP OVA file. Use this file to install Cisco ICFP in VMware environments. See <a href="#">Workflow for VMware Environments, on page 2</a> .
<code>icfp-3.1.1.qcow2</code>	Cisco ICFP QCOW2 file. Use this file to install Cisco ICFP in OpenStack environments. See <a href="#">Workflow for OpenStack Environments</a> .
README	README file. This file contains information about installing and using Cisco ICFP.

The Cisco ICFP software includes a 60-day evaluation license with support for 20 hybrid cloud units (HCUs). To view the license details in the GUI after you install Cisco ICFP, choose **License**. The license details are displayed, including the license type, status, number of supported HCUs, and the term of the license. For more information, see [Uploading Cisco ICFP Licenses](#).

## Workflow for VMware Environments

Cisco ICFP should be implemented by all service providers that interface with Cisco Intercloud Fabric for Business platforms. The only exceptions to this are Amazon EC2 and Windows Azure, which are available to Cisco Intercloud Fabric through their native public cloud APIs.

The following table identifies the high-level tasks involved in deploying Cisco ICFP in a VMware environment:

Step	Task	Related Information
1.	Confirm that you have met the installation requirements.	<a href="#">Installation Requirements</a>
2.	Gather the required information.	<a href="#">Information Required for Configuration and Installation</a>
3.	Install Cisco ICFP.	<a href="#">Installing Cisco ICFP on VMware, on page 2</a>
4.	If needed after the installation, configure the Cisco ICFP IP address.	<a href="#">Configuring the IP Address for Network Access, on page 5</a>
5.	(Optional) Upload the Cisco ICFP license file.	<a href="#">Uploading Cisco ICFP Licenses</a>
6.	(Optional) Configure Cisco ICFP virtual appliances for a multiple-node cluster.	<a href="#">Configuring Cisco ICFP for Clusters</a>
7.	Configure communications with Cisco Intercloud Fabric.	<i>Cisco Intercloud Fabric Installation Guide</i>

## Installing Cisco ICFP on VMware

This procedure describes how to install Cisco ICFP in a VMware environment.



### Note

We recommend that you configure additional storage for all Cisco ICFP nodes. If additional storage is not configured, all VM images that are uploaded from Cisco Intercloud Fabric are stored on the node's local disk. If the node fails, one or both of the following can occur:

- Any images stored on the node are no longer available.
- If the node is part of a cluster, template creation and VM migration fail.

If NFS is not available, you can configure a Cinder volume as described in [Configuring a Cinder Volume](#).

### Before You Begin

- Set your keyboard to United States English.
- Unzip the Cisco ICFP software package to obtain the OVA file and the README file.

- Review the README file for information related to Cisco ICFP installation and operation.
- Copy the Cisco ICFP OVA image to a location that is available from the VMware vSphere Client.
- Make sure that all requirements are met as specified in [System Requirements](#).
- Collect the information required for the installation. See [Information Required for Configuration and Installation](#).

## Procedure

- Step 1** Using the **VMware vSphere Client**, log in to the vCenter server.
- Step 2** Choose the host on which to deploy the Cisco ICFP virtual appliance.
- Step 3** Choose **File > Deploy OVF Template**.
- Step 4** In the wizard, provide the information as described in the following table:

Screen	Action
Source	Choose the Cisco ICFP OVA using one of the following methods: <ul style="list-style-type: none"> <li>• Browse to the location, choose the file, and click <b>Open</b>.</li> <li>• Deploy from a URL on your local area network. Replace <b>FQDN</b> with the IP address or the fully qualified domain name, and click <b>Next</b>.</li> </ul>
OVF Template Details	Verify the details.
End User License Agreement	Read the agreement and click <b>Accept</b> .
Name and Location	<ol style="list-style-type: none"> <li>1 Enter a name for the virtual appliance.</li> <li>2 Choose the VMware data center or host where Cisco ICFP will reside.</li> </ol>
Deployment Configuration	Choose the type of deployment: <ul style="list-style-type: none"> <li>• <b>Standalone</b>—Used for single-node deployments.</li> <li>• <b>Primary Node</b>—Used for HA deployment in a multiple-node cluster.</li> <li>• <b>Service Node</b>—Used in cluster deployments for handling requests.</li> </ul>
Storage	Choose the location in which to store the Cisco ICFP files.

Screen	Action
<b>Disk Format</b>	Choose the required format for the virtual appliance disks: <ul style="list-style-type: none"> <li>• <b>Thick Provision Lazy Zeroed</b>—Allocates storage immediately in thick format.</li> <li>• <b>Thick Provision Eager Zeroed</b>—Allocates storage in thick format. Creating disks might take longer using this option.</li> <li>• <b>Thin Provision</b>—Allocates storage on demand as data is written to disk.</li> </ul>
<b>Network Mapping</b>	Choose the required network.
<b>Properties</b> Address any errors that are indicated in red-colored text below a selection box.	
<b>Node Mode</b>	Choose the type of deployment for this node: Standalone, Primary Node, or Service Node. The mode you choose should match the deployment type in the <b>Deployment Configuration</b> screen.
<b>ICFPP Hostname</b>	Enter the hostname for the Cisco ICFP node.
<b>ICFPP Password</b>	Enter and confirm the password to use for admin, root, and ShellAdmin account access.
<b>Static IP Address</b>	Enter the static IP address to use for the Cisco ICFP node.
<b>Static IP Subnet Mask</b>	Enter the subnet mask to apply to the node IP address.
<b>IP Gateway</b>	Enter the gateway IP address.
<b>Primary Node IP Address for Service Node</b>	For service nodes only, enter the IP address of the primary node or the virtual IP address (VIP) of the HA pair for database access.
<b>NFS Server IP Address</b>	Enter the IP address for an NFS server. <b>Note</b> If you do not configure NFS in a multiple-node cluster deployment, template creation and VM migration can fail if a service node fails.
<b>NFS Server Directory to Mount</b>	NFS server directory to be mounted.
<b>Domain Name</b>	Enter the domain name for the node, such as cisco.com.
<b>DNS Server IP Address</b>	Enter the DNS server IP address.
<b>NTP Server IP (FQDN or IP Address)</b>	Enter the NTP server IP address or fully qualified domain name.
<b>Ready to Complete</b>	Review the deployment settings for accuracy.

- Step 5** Click **Finish**. A progress indicator displays the task status until Cisco ICFP is deployed. For additional information, right-click the VM in the VMware vSphere Client and choose **Open Console**.
- Step 6** After Cisco ICFP is successfully deployed, power on the virtual appliance.
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### What to Do Next

If needed, configure the Cisco ICFP IP address for network address. For more information, see [Configuring the IP Address for Network Access](#), on page 5.

## Configuring the IP Address for Network Access

After installing Cisco ICFP in a VMware environment, you might need to configure the Cisco ICFP IP address for network access.

The Cisco ICFP IP address is configured during installation by using Open Virtualization Format (OVF) parameters. However, if the IP address is not configured correctly, you must configure the static IP address by using the ShellAdmin console options as described in this procedure.

### Procedure

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- Step 1** Using SSH, connect to the Cisco ICFP ShellAdmin console by using the following information:
- Cisco ICFP IP address
  - Username—shelladmin
  - Password—The password that you set when you installed Cisco ICFP
- Step 2** At the ShellAdmin prompt, choose **Configure Network Interface** to configure the static IP address.
- Step 3** Enter **S** to configure a static IP address.
- Step 4** Enter the Ethernet interface that you want to configure, such as eth0 or eth1.
- Step 5** When prompted for the IP version, choose **IPv4**.
- Step 6** Enter the static IP address, netmask, and gateway IP address.
- Step 7** Enter **Y** to confirm the information.  
The Cisco ICFP virtual appliance reboots and displays a screen with the URL for accessing Cisco ICFP.
- Step 8** (Optional) To verify that the change has been applied, log in to the ShellAdmin console and choose **Display Network Details**.
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