



Deploying Unified Manager

OnCommand Unified Manager 9.5

NetApp
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Deploying Unified Manager

Deploying Unified Manager includes downloading software, deploying the virtual appliance, creating a maintenance user name and password, and performing the initial setup in the web UI.

Before you begin

- You must have completed the system requirements for deployment.

[System requirements](#)

- You must have the following information:
 - Login credentials for the NetApp Support Site
 - Credentials for accessing the VMware vCenter Server and vSphere Web Client (for vSphere version 6.5) or vSphere Client (for vSphere version 5.5 or 6.0)
 - IP address of the ESXi server on which you are deploying the Unified Manager virtual appliance
 - Details about the data center, such as storage space in the datastore and memory requirements
 - IPv6 must be enabled on the host if you are planning to use IPv6 addressing.
 - CD-ROM or ISO image of VMware Tools

About this task

You can deploy Unified Manager as a virtual appliance on a VMware ESXi server.

You must access the maintenance console by using the VMware console, and not by using SSH.

VMware Tools are not included in the Unified Manager .ova file, and must be installed separately.

After you finish

After finishing the deployment and initial setup, you can either add clusters, or configure additional network settings in the maintenance console, and then access the web UI.

Downloading the Unified Manager OVA file

You must download the Unified Manager .ova file from the NetApp Support Site to deploy Unified Manager as a virtual appliance.

Before you begin

You must have login credentials for the NetApp Support Site.

About this task

The .ova file contains the Unified Manager software configured in a virtual appliance.

Steps

1. Log in to the NetApp Support Site, and navigate to the Download page for installing Unified Manager on the VMware vSphere.

[NetApp Downloads: Software](#)

2. Download and save the .ova file to a local directory or network directory that is accessible to your vSphere Client.
3. Verify the checksum to ensure that the software downloaded correctly.

Deploying the Unified Manager virtual appliance

You can deploy the Unified Manager virtual appliance after you download the .ova file from the NetApp Support Site. You must use the vSphere Web Client (for vSphere version 6.5) or vSphere Client (for vSphere version 5.5 or 6.0) to deploy the virtual appliance on an ESXi server. When you deploy the virtual appliance, a virtual machine is created.

Before you begin

You must have reviewed the system requirements. If changes are required to meet the system requirements, you must implement the changes before deploying the Unified Manager virtual appliance.

[Virtual infrastructure requirements](#)

[VMware software and installation requirements](#)

If you use DHCP, you must ensure that the DHCP server is available, and that the DHCP and virtual machine (VM) network adapter configurations are correct. DHCP is configured by default.

If you use a static networking configuration, you must ensure that the IP address is not duplicated in the same subnet, and that the appropriate DNS server entries have been configured.

You must have the following information before deploying the virtual appliance:

- Credentials for accessing the VMware vCenter Server and vSphere Web Client (for vSphere version 6.5) or vSphere Client (for vSphere version 5.5 or 6.0)
- IP address of the ESXi server on which you are deploying the Unified Manager virtual appliance
- Details about the data center, such as availability of storage space
- If you are not using DHCP, you must have the IPv4 or IPv6 addresses for the networking devices to which you are planning to connect:
 - Fully qualified domain name (FQDN) of the host
 - IP address of the host
 - Network mask
 - IP address of the default gateway
 - Primary and secondary DNS addresses
 - Search domains

- CD-ROM or ISO image for the VMware Tools

About this task

VMware Tools are not included in the `.ova` file. You must install the VMware Tools separately.

When the virtual appliance is deployed, a unique self-signed certificate for HTTPS access is generated. When accessing the Unified Manager web UI, you might see a browser warning about untrusted certificates.

VMware High Availability for the Unified Manager virtual appliance is supported.

Steps

1. In the vSphere Client, click **File > Deploy OVF Template**.
2. Complete the **Deploy OVF Template** wizard to deploy the Unified Manager virtual appliance.

On the Networking Configuration page:

- Leave all the fields blank when using DHCP and IPv4 addressing.
 - Check the “Enable Auto IPv6 addressing” box, and leave all the other fields blank when using DHCP and IPv6 addressing.
 - If you want to use a static network configuration, you can complete the fields on this page and these settings are applied during deployment. You must ensure that the IP address is unique to the host on which it is deployed, that it is not already in use, and that it has a valid DNS entry.
3. After the Unified Manager virtual appliance is deployed to the ESXi server, power on the VM by right-clicking the VM, and then selecting **Power On**.

If the Power On operation fails because of insufficient resources, you must add resources and then retry the installation.

4. Click the **Console** tab.

The initial boot process takes a few minutes to complete.

5. Follow the prompt to install the VMware Tools on the VM.

When using the vSphere Web Client with vSphere 6.5 you need to manually mount the VMware Tools ISO image. From the VM you need to select **Edit Settings > Virtual Hardware > CD/DVD drive x > Datastore ISO file** and then click **Browse** to select the file `linux.iso` as the mount image.

6. To configure your time zone, enter your geographic area and your city or region as prompted in the VM **Console** window.

All the date information that is displayed uses the time zone that is configured for Unified Manager, regardless of the time zone setting on your managed devices. You should be aware of this when comparing time stamps. If your storage systems and the management server are configured with the same NTP server, they refer to the same instant in time, even if they appear differently. For example, if you create a Snapshot copy using a device that is configured using a different time zone than that of the management server, the time reflected in the time stamp is the management server time.

7. If no DHCP services are available, or if there is an error in the details for the static network configuration, select one of the following options:

If you use...	Then do this...
DHCP	<p>Select Retry DHCP. If you plan to use DHCP, you should ensure that it is configured correctly.</p> <p>If you use a DHCP-enabled network, the FQDN and DNS server entries are given to the virtual appliance automatically. If DHCP is not properly configured with DNS, the host name “OnCommand” is automatically assigned and associated with the security certificate. If you have not set up a DHCP-enabled network, you must manually enter the networking configuration information.</p>
A static network configuration	<p>a. Select Enter the details for static network configuration.</p> <p>The configuration process takes a few minutes to complete.</p> <p>b. Confirm the values that you entered, and select Y.</p>

8. At the prompt, enter a maintenance user name, and click **Enter**.

The maintenance user name must start with a letter from a-z, followed by any combination of -, a-z, or 0-9.

9. At the prompt, enter a password, and click **Enter**.

The VM console displays the URL for the Unified Manager web UI.

After you finish

You can access the web UI to perform the initial setup of Unified Manager, as described in the *OnCommand Unified Manager System Configuration Guide*.

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