



# Installing Cisco UCS Director Express for Big Data

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## Installing Cisco UCS Director Express for Big Data on VMware vSphere

The Cisco UCS Director, Release 6.0 OVF file includes Cisco UCS Director Express for Big Data, Release 3.0.



### Note

We recommend that you use VMware vCenter for OVF deployment. VMware vCenter versions 5.x and above are supported. OVF deployment wizards support only IPv4 addresses. If you require IPv6, you can deploy OVF and use the shelladmin option to configure IPv6 address.

### Before You Begin

You need administrator privileges to connect to VMware vSphere or vCenter.



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**Note** If you do not want to use DHCP, you need the following information: IPv4 address, subnet mask, and default gateway.

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- Step 1** Log in to VMware vSphere Client.
- Step 2** In the **Navigation** pane, choose the **Data Center** for Cisco UCS Director deployment.
- Step 3** Choose **File > Deploy OVF Template**.  
The **Deploy OVF Template** window appears.
- Step 4** In the **Source** pane, do one of the following to choose your OVF source location:
- Browse to the location, choose the file, and click **Open**.
  - Deploy from a URL on your local area network. Replace *FQDN* (Fully Qualified Domain Name) with the IP address or domain name, and click **Next**.
- Step 5** In the **OVF Template Details** pane, verify the details, and click **Next**.
- Step 6** In the **End User License Agreement** pane, read the license agreement, and click **Accept**. Click **Next**.
- Step 7** In the **Name and Location** pane, do the following:
- (Optional) In the **Name** field, edit the VM name.
  - From the **Inventory Location** area, choose the inventory location where Cisco UCS Director Express for Big Data is being deployed, and click **Next**.
- Note** If Data Center was chosen in a previous step, option b is not available.
- Step 8** In the **Host/Cluster** pane, choose the required host, cluster, or resource pool, and click **Next**.
- Step 9** In the **Storage** pane, choose the location to store Cisco UCS Director Express for Big Data VM files, and click **Next**.
- Step 10** In the **Disk Format** pane, choose one of the following radio buttons and click **Next**:
- **Thick Provisioned (Lazy Zeroed)** format—To allocate storage immediately in thick format. This is the recommended option.
  - **Thick Provisioned (Eager Zeroed)** format—To allocate storage in thick format. It might take longer to create disks using this option.
  - **Thin Provisioned** format—To allocate storage on demand as data is written to disk.
- Step 11** In the **Network Mapping** pane, choose your network and click **Next**.
- Step 12** In the **Properties** pane, enter the following information and click **Next**:
- Root Password
  - Shelladmin Password
  - Management IP Address
  - Management IP Subnet Mask
  - Gateway IP Address

**Note** If the root password and shell admin password are not configured, default values are used.

The management IP address and management IP subnet mask are set to 0.0.0.0 to use DHCP by default.

**Step 13** In the **Ready to Complete** pane, verify the options selected, and click **Finish**.

**Step 14** Make sure you have sufficient vCPU and memory to power on the VM.

**Step 15** Power on the VM.

**Note** If the **Power on after deployment** check box on the **Ready to Complete** pane is checked, the appliance powers on automatically after deployment.

**Step 16** After the appliance has booted up, transfer the Cisco UCS Director Express for Big Data IP address (from the IP address that is shown) into a supported web browser to access the **Login** page.

**Step 17** On the **Login** page, enter `admin` as the username and `admin` for the login password.

**Note** Change your admin password after this initial login.

**Step 18** On the menu bar, choose **Administration > License** and click the **License Keys** tab.

**Step 19** Click **Manage Personalities**.

**Step 20** In the **Personality Configuration** dialog box, check the check box for the required personalities. You can check either **UCSD** or **Big Data** or both personalities if required.

**Step 21** Click **Submit**.

**Step 22** Log in to the Cisco UCS Director VM console with the default shelladmin credentials (for example, shelladmin/changeme) to apply the selected personality (Big Data).

- a) From the **Cisco UCS Director Shell Menu**, choose Stop Services and press Enter.
  - b) Press Enter to return to the main menu.
  - c) From the **Cisco UCS Director Shell Menu**, choose Start Services and press Enter.
  - d) Press Enter to return to the main menu.
  - e) Choose Quit.
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## Changing the Default Password

Change the default password for administration after initial logging.

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**Step 1** On the menu bar, choose **Administration > Users and Groups**.

**Step 2** Click the **Users** tab.

**Step 3** Choose the administration user for which you want to change the default password.

**Step 4** Click **Change Password**.

**Step 5** In the **Change Password** dialog box, enter the new password and confirm it.

**Step 6** Click **Save**.

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## Updating the License

### Before You Begin

If you received a zipped license file by an email, extract and save the license (.lic) file to your local machine.

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- Step 1** Choose **Administration > License**.
- Step 2** Click the **License Keys** tab.
- Step 3** Click **Update License**.
- Step 4** In the **Update License** dialog box, do the following:
- To upload a .lic file, click **Browse** to the base license's file and select the .lic file, then click **Upload**.
- Step 5** Click **Submit**.  
The license file is processed, and a message appears confirming the successful update.
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## Reserving System Resources

For optimal performance, we recommend reserving extra system resources for Cisco UCS Director Express for Big Data beyond the minimum system requirements listed in [Minimum System Requirements for a Single-Node Setup](#).



**Note** For more information about how to reserve system resources, see the VMWare documentation.

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- Step 1** Log in to VMware vCenter.
- Step 2** Choose the VM for Cisco UCS Director Express for Big Data.
- Step 3** Shut down the VM.
- Step 4** In VMware vCenter, click the **Resource Allocation** tab to view the current resource allocations, and click **Edit**.
- Step 5** In the **Virtual Machine Properties** pane, edit resource allocations by choosing a resource and entering the new values.
- Step 6** Verify that the new resource allocations have been made.
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## Changing the Maximum Packet Size

The default maximum packet (query) size for the Cisco UCS Director Express for Big Data database queries is 4 MB. If one or more of your pods requires a larger size, we recommend that you increase the configuration

of the maximum packet size to 100 MB. For example, the import of large open automation modules typically requires a larger packet size.



**Note** For a multi-node setup, perform this configuration on the inventory database and monitoring database nodes.

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- Step 1** In the shelladmin, choose `Login as Root` to log in to Cisco UCS Director Express for Big Data.
- Step 2** Navigate to the `/etc` folder.
- Step 3** Open the `my.cnf` file and locate the `max_allowed_packet` parameter.
- Step 4** Change the value of the `max_allowed_packet` parameter to `max_allowed_packet=100M`
- Step 5** Save the `my.cnf` file.
- Step 6** In the shelladmin, stop and restart the Cisco UCS Director Express for Big Data services on every node, as follows:
- Choose `Stop services`.
  - To verify that all services are stopped, choose `Display services status`.
  - After all services have stopped on the node, choose `Start services`.
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## Configuring the Network Interface using Shelladmin

This procedure is optional.

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- Step 1** Log in to the Cisco UCS Director Express for Big Data VM console with the following credentials:
- User—`shelladmin`
  - Password—`changeme`
- If you have already logged into the shelladmin and changed the default password, use your new password instead.
- After you have logged in, you can choose `Change shelladmin password` to change the default password.
- Step 2** Choose `Configure Network Interface`.
- Step 3** At the `Do you want to Configure DHCP/STATIC IP [D/S]` prompt, enter one of the following choices:
- If DHCP is enabled, enter `D` (IP addresses are assigned automatically)
  - To configure static IP, enter `S`, and then choose the interface you want to configure at the next prompt followed by the option to select IPv4 or IPv6. This is followed by the confirmation of the interface selected and the version of IP for which you select `Y` to continue. Then enter the following details:
    - IP address
    - Netmask
    - Gateway
    - DNS Server 1

- DNS Server 2

**Step 4** Confirm when prompted.

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