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Audience

This guide is intended primarily for data center administrators who use Cisco UCS Director Express for Big Data and who have responsibilities and expertise in one or more of the following:

- Server administration
- Storage administration
- Network administration
- Network security
- Virtualization and virtual machines

Conventions

<table>
<thead>
<tr>
<th>Text Type</th>
<th>Indication</th>
</tr>
</thead>
<tbody>
<tr>
<td>GUI elements</td>
<td>GUI elements such as tab titles, area names, and field labels appear in this font. Main titles such as window, dialog box, and wizard titles appear in this font.</td>
</tr>
<tr>
<td>TUI elements</td>
<td>In a Text-based User Interface, text the system displays appears in this font.</td>
</tr>
<tr>
<td>Text Type</td>
<td>Indication</td>
</tr>
<tr>
<td>-----------</td>
<td>------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>System output</td>
<td>Terminal sessions and information that the system displays appear in this font.</td>
</tr>
<tr>
<td>CLI commands</td>
<td>CLI command keywords appear in this font. Variables in a CLI command appear in this font.</td>
</tr>
<tr>
<td>[ ]</td>
<td>Elements in square brackets are optional.</td>
</tr>
<tr>
<td>{x</td>
<td>y</td>
</tr>
<tr>
<td>[x</td>
<td>y</td>
</tr>
<tr>
<td>string</td>
<td>A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks.</td>
</tr>
<tr>
<td>&lt;&gt;</td>
<td>Nonprinting characters such as passwords are in angle brackets.</td>
</tr>
<tr>
<td>[ ]</td>
<td>Default responses to system prompts are in square brackets.</td>
</tr>
<tr>
<td>!, #</td>
<td>An exclamation point (!) or a pound sign (#) at the beginning of a line of code indicates a comment line.</td>
</tr>
</tbody>
</table>

**Note**

Means *reader take note*. Notes contain helpful suggestions or references to material not covered in the document.

**Caution**

Means *reader be careful*. In this situation, you might perform an action that could result in equipment damage or loss of data.

**Tip**

Means *the following information will help you solve a problem*. The tips information might not be troubleshooting or even an action, but could be useful information, similar to a Timesaver.

**Timesaver**

Means *the described action saves time*. You can save time by performing the action described in the paragraph.
IMPORTANT SAFETY INSTRUCTIONS

This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Use the statement number provided at the end of each warning to locate its translation in the translated safety warnings that accompanied this device.

SAVE THESE INSTRUCTIONS

Related Documentation

Cisco UCS Director Documentation Roadmap

For a complete list of Cisco UCS Director documentation, see the Cisco UCS Director Documentation Roadmap available at the following URL: http://www.cisco.com/en/US/docs/unified_computing/ucs/ucs-director/doc-roadmap/b_UCSDirectorDocRoadmap.html.

Cisco UCS Documentation Roadmaps

For a complete list of all B-Series documentation, see the Cisco UCS B-Series Servers Documentation Roadmap available at the following URL: http://www.cisco.com/go/unifiedcomputing/b-series-doc.

For a complete list of all C-Series documentation, see the Cisco UCS C-Series Servers Documentation Roadmap available at the following URL: http://www.cisco.com/go/unifiedcomputing/c-series-doc.

Note

The Cisco UCS B-Series Servers Documentation Roadmap includes links to documentation for Cisco UCS Manager and Cisco UCS Central. The Cisco UCS C-Series Servers Documentation Roadmap includes links to documentation for Cisco Integrated Management Controller.

Documentation Feedback

To provide technical feedback on this document, or to report an error or omission, please send your comments to ucs-director-docfeedback@cisco.com. We appreciate your feedback.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see What's New in Cisco Product Documentation.

To receive new and revised Cisco technical content directly to your desktop, you can subscribe to the What's New in Cisco Product Documentation RSS feed. RSS feeds are a free service.
Overview

This chapter contains the following sections:

- Cisco UCS Director Express for Big Data, page 1
- Cisco UCS Director Express for Big Data for VMware vSphere, page 3
- Prerequisites, page 3
- About Licenses, page 3
- Fulfilling the Product Access Key, page 4

Cisco UCS Director Express for Big Data

Cisco UCS Director Express for Big Data is a single-touch solution within Cisco UCS Director that automates deployment of Big Data infrastructure. Cisco UCS Director Express for Big Data provides a single management pane across physical infrastructure and across Hadoop and Splunk Enterprise software. It supports key Hadoop distributions, including Cloudera, MapR, and Hortonworks.

Cisco UCS Director Express for Big Data delivers end-to-end automation of Hadoop cluster deployment, allowing you to spin up and expand clusters on-demand. The physical infrastructure configuration is handled automatically, with minimal user input. The configuration includes compute, internal storage, network, and installation of operating system, Java packages, and Hadoop, along with the provisioning of Hadoop services. This is achieved through Cisco UCS service profiles wherein both the physical infrastructure and Hadoop configuration are incorporated into a Hadoop cluster deployment profile.

Cisco UCS Director Express for Big Data also delivers end-to-end automation of Splunk cluster deployment, with minimal user input. This is achieved through Cisco UCS service profiles wherein both the physical infrastructure and Splunk configuration are incorporated into a Splunk cluster deployment profile.

Cisco UCS Integrated Infrastructure for Big Data

Cisco UCS Integrated Infrastructure for Big Data is an industry leading architecture designed to meet various Big Data workloads. It scales as processing and storage needs grow without increasing management challenges and delivers predictable performance along with reduced total cost of ownership (TCO).

Cisco UCS Integrated Infrastructure consists of the following components:
• Cisco UCS Fabric Interconnects
• Cisco UCS 2200 Series Fabric Extenders
• Cisco UCS C-Series Rack-Mount Servers
• Cisco UCS Virtual Interface Cards (VICs)
• Cisco UCS Manager

You can read more about the Cisco UCS Integrated Infrastructure for Big Data in the Data Center Designs Cloud Computing - Design Zone for Big Data.

### Supported Hadoop Distributions

Cisco UCS Director Express for Big Data supports the following Hadoop distributions:

- Cloudera 5.4, 5.5, 5.6, and 5.8
- MapR 3.1, 4.0, 4.1, 5.0, 5.1, and 5.2
- Hortonworks 2.1, 2.2, 2.3, and 2.4

#### Table 1: Java and JDK Software for Hadoop Distributions

<table>
<thead>
<tr>
<th>Hadoop Distribution</th>
<th>Supported Hadoop Distribution Versions</th>
<th>Installed Java and JDK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cloudera</td>
<td>5.0.1, 5.0.6, 5.2.0, 5.2.1, 5.3.0, 5.4.1, 5.5.0, 5.6.0, and 5.8.0</td>
<td>oracle-j2sdk1.7</td>
</tr>
<tr>
<td>MapR</td>
<td>3.1.1, 4.0.1, 4.0.2, 4.1.0, 5.0.0, 5.1.0, and 5.2.0</td>
<td>java-1.7.0-openjdk</td>
</tr>
<tr>
<td>Hortonworks</td>
<td>2.1, 2.2, 2.3, and 2.4</td>
<td>java-1.7.0-openjdk</td>
</tr>
</tbody>
</table>

**Note**
You can choose and install the required Oracle JDK version.

### Supported Splunk Distribution

Cisco UCS Director Express for Big Data supports the following Splunk distribution:

<table>
<thead>
<tr>
<th>Splunk Distribution</th>
<th>Supported Splunk Distribution Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Splunk</td>
<td>6.3.x and 6.4.x</td>
</tr>
</tbody>
</table>
Cisco UCS Director Express for Big Data for VMware vSphere

Cisco UCS Director Express for Big Data can be hosted on VMware vSphere or vCenter.

Note
The appliance and boot-up logs are located in the /var/log/ucsd directory.

- install.log contains the one time appliance installation logs.
- bootup.log contains the appliance boot-up sequence information, such as startup messages for the database and infrastructure services.

Prerequisites

- Installation of VMware vSphere or vCenter
- Configured system administrator privileges
- Cisco UCS Director Express for Big Data deployed on a VMware vSphere or vCenter host

About Licenses

You must obtain a license to use Cisco UCS Director Express for Big Data, as follows:

1. Before you install Cisco UCS Director Express for Big Data, generate the Cisco UCS Director Express for Big Data license key and claim a certificate (Product Access Key).

2. Register the Product Access Key (PAK) on the Cisco software license site, as described in Fulfilling the Product Access Key, on page 4.

3. After you install Cisco UCS Director Express for Big Data, update the license in Cisco UCS Director Express for Big Data as described in Updating the License, on page 8.

4. After the license has been validated, you can start to use Cisco UCS Director Express for Big Data.
Fulfilling the Product Access Key

Before You Begin
You need the PAK number.

---

**Step 1**
Navigate to the Cisco Software License website.

**Step 2**
If you are directed to the Product License Registration page, you can take the training or click Continue to Product License Registration.

**Step 3**
On the Product License Registration page, click Get New Licenses from a PAK or Token.

**Step 4**
In the Enter a Single PAK or TOKEN to Fulfill field, enter the PAK number.

**Step 5**
Click Fulfill Single PAK/TOKEN.

**Step 6**
Complete the additional fields in License Information to register your PAK:

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organization Name</td>
<td>The organization name.</td>
</tr>
<tr>
<td>Site Contact Name</td>
<td>The site contact name.</td>
</tr>
<tr>
<td>Street Address</td>
<td>The street address of the organization.</td>
</tr>
<tr>
<td>City or Town</td>
<td>The city or town.</td>
</tr>
<tr>
<td>State or Province</td>
<td>The state or province.</td>
</tr>
<tr>
<td>Zip or Postal Code</td>
<td>The zip code or postal code.</td>
</tr>
<tr>
<td>Country</td>
<td>The country name.</td>
</tr>
</tbody>
</table>

**Step 7**
Click Issue Key.
The features for your license appear, and you receive an email with the Digital License Agreement and a zipped license file.
Installing Cisco UCS Director Express for Big Data

This chapter contains the following sections:

- Installing Cisco UCS Director Express for Big Data on VMware vSphere, page 5
- Changing the Default Password, page 7
- Updating the License, page 8
- Reserving System Resources, page 8
- Changing the Maximum Packet Size, page 8
- Configuring the Network Interface using Shelladmin, page 9

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.

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

### 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.

---

**Changing the Default Password**

Change the default password for administration after initial logging.

**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**.
Updating the License

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

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.

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.

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.

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.

---

**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:

- a) Choose *Stop services*.
- b) To verify that all services are stopped, choose *Display services status*.
- c) After all services have stopped on the node, choose *Start services*.

---

### Configuring the Network Interface using Shelladmin

This procedure is optional.

**Step 1** Log in to the Cisco UCS Director Express for Big Data VM console with the following credentials:

- a) User—`shelladmin`
- b) 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
Step 4

Confirm when prompted.

* DNS Server 2
Restarting Cisco UCS Director Express for Big Data

If you see errors after installing Cisco UCS Director Express for Big Data, log in to the Secure Shell (SSH) client and run scripts to verify whether services are running or not.

**Step 1**
Using the Cisco UCS Director Express for Big Data IP address, log in with the following credentials:
- **User**—shelladmin
- **Password**—changeme

If you have already logged into the shell admin 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**
To display the status of all services, choose `Display services status`.
If this option is not available, you can use SSH to restart the services.

**Step 3**
Verify that the following services appear:

1. broker
2. controller
3. eventmgr
4. idaccessmgr
5. inframgr
6. webservice
7. tomcat
8. flashpolicyd
9. mysqld
10. infradb
Note  Services that start in the background do not appear in the window.

Step 4  Choose Stop services.

Step 5  To verify that all services are stopped, choose Display services status.

Step 6  To restart services, choose Start services.
CHAPTER 4

Upgrading Cisco UCS Director Express for Big Data, Release 3.0

This chapter contains the following sections:

- Supported Upgrade Paths to Cisco UCS Director Express for Big Data, Release 3.0, page 13
- Upgrading a Single Node Setup to Release 3.0, page 14

Supported Upgrade Paths to Cisco UCS Director Express for Big Data, Release 3.0

The following are the supported upgrade paths for Cisco UCS Director Express for Big Data, Release 3.0.

**Upgrade Paths from Release 5.5(x.x) Platform**

- From Release 5.5 to Release 6.0
- From Release 5.5(0.1) to Release 6.0

**Upgrade Paths from Prior Releases**

Note

Direct upgrade to Release 6.0 from versions prior to Release 5.5 is not supported.

- Customers running Release 5.4.x version must first upgrade to Release 5.5 or Release 5.5(0.1), and then upgrade to Release 6.0 version.
- Customers running versions prior than 5.4 version must first migrate to Release 5.4, then upgrade to Release 5.5 or Release 5.5(0.1), and then upgrade to Release 6.0 version.
**Upgrading a Single Node Setup to Release 3.0**

Follow this procedure to upgrade from Cisco UCS Director, Release 5.5. If you need to upgrade from a release prior to version 5.4, you must first migrate to release 5.4, followed by an upgrade to Release 5.5. For more information on migrating to Release 5.4, see the Cisco UCS Director Upgrade Guide, Release 5.4 available at: http://www.cisco.com/c/en/us/support/servers-unified-computing/ucs-director/products-installation-guides-list.html.

**Before You Begin**

- Place the software in the FTP or HTTP server that you plan to use to install the upgrade.

---

**Note**

We recommend that you take a snapshot of the VM before you begin the upgrade. If you do this, you do not need to back up the existing configuration database through an FTP server.

---

**Step 1**

Start your current version of Cisco UCS Director Express for Big Data, (Release 2.1).

**Step 2**

In the ShellAdmin, choose Stop services to stop all services.

**Step 3**

To verify that all services are stopped, choose Display services status.

**Step 4**

(Optional) If desired, you can choose Backup database to back up the Cisco UCS Director database. You do not need to back up the database if you took a snapshot of the VM before you started.

**Step 5**

To upgrade Cisco UCS Director Express for Big Data, Release 3.0, choose Apply patch.

**Step 6**

When prompted, enter the location of the Release 3.0, patch.

ftp://username:password@hostname/IP_address/software_location_and_name

**Step 7**

Wait for the download and installation to complete.

**Step 8**

Re-login to the ShellAdmin, and choose Start services to complete the upgrade process.

**Note**

After you apply the upgrade patch and complete that installation, choose the Start Services option of ShellAdmin to start/restart the Cisco UCS Director Express for Big Data services and complete the patch process. The patch process is not complete or successful until the Cisco UCS Director Express for Big Data services have started, Cisco UCS Director Express for Big Data is available, the login screen is displayed, and the administrator can log in to Cisco UCS Director Express for Big Data.

All Cisco UCS Director Express for Big Data services must be started before you attempt to perform other shelladmin procedures, such as apply additional patches, take a database backup, or restore a database from a backup.

**Step 9**

When the upgrade is complete, choose Show Version in ShellAdmin to verify the current version of Cisco UCS Director Express for Big Data.
Upgrading Cisco UCS Director Express for Big Data

This chapter contains the following sections:

- Supported Upgrade Paths for Cisco UCS Director Express for Big Data, page 15
- Upgrading to Cisco UCS Director Express for Big Data, Release 3.0, page 16

Supported Upgrade Paths for Cisco UCS Director Express for Big Data

The upgrade path to Cisco UCS Director Express for Big Data, Release 3.0 depends upon your current version of Cisco UCS Director Express for Big Data. The following are the supported upgrade paths for Cisco UCS Director Express for Big Data, Release 3.0.

<table>
<thead>
<tr>
<th>Current Release</th>
<th>Direct Upgrade Supported</th>
<th>Upgrade Path</th>
</tr>
</thead>
<tbody>
<tr>
<td>Release 1.0</td>
<td>Yes</td>
<td>1.0 &gt; 1.1</td>
</tr>
<tr>
<td>Release 1.x</td>
<td>No</td>
<td>1.x &gt; 2.0</td>
</tr>
<tr>
<td>Release 2.1</td>
<td>Yes</td>
<td>2.0 &gt; 2.1</td>
</tr>
<tr>
<td>Release 3.0</td>
<td>Yes</td>
<td>2.1 &gt; 3.0</td>
</tr>
</tbody>
</table>
Upgrading to Cisco UCS Director Express for Big Data, Release 3.0

Before You Begin

From the Download Software site, download Cisco UCS Director, Release 6.0 or Cisco UCS Director Express for Big Data, Release 3.0, and unzip the OVF file from Downloads Home > Products > Servers-Unified Computing > UCS Director > UCS Director Express for Big Data 3.0.

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

---

**Step 1** Log in to the current version of Cisco UCS Director Express for Big Data VM console after installing Cisco UCS Director Express for Big Data, Release 3.0 with the support for personality.

**Step 2** In the ShellAdmin, choose Stop services to stop all services.

**Step 3** To verify that all services are stopped, choose Display services status.

**Step 4** (Optional) If desired, you can choose Backup database to back up the Cisco UCS Director Express for Big Data database.

You do not need to back up the database if you took a snapshot of the VM before you started.

**Step 5** To upgrade Cisco UCS Director Express for Big Data to Release 3.0, choose Apply patch.

**Step 6** When prompted, enter the location of the Release 3.0 patch.

ftp://username:password@hostname/IP_address/software_location_and_name

**Step 7** Wait for the download and installation to complete.

**Step 8** When prompted, choose Start services to start services and complete the upgrade process.

**Note** After you apply the upgrade patch and complete that installation, choose the Start Services option of ShellAdmin to start/restart the Cisco UCS Director Express for Big Data services and complete the patch process. The patch process is not complete or successful until the Cisco UCS Director Express for Big Data services have started, Cisco UCS Director Express for Big Data is available, the login screen is displayed, and the administration can log in to Cisco UCS Director Express for Big Data.

All Cisco UCS Director Express for Big Data services must be started before you attempt to perform other shelladmin procedures, such as apply additional patches, take a database backup, or restore a database from a backup.

**Step 9** When the upgrade is complete, choose Show Version in ShellAdmin to verify the current version of Cisco UCS Director Express for Big Data.