



Configuring a Multi-Node Setup

This chapter contains the following sections:

- [Summary of Steps for Configuring a Multi-Node Setup, page 1](#)
- [Creating the Inventory Database, page 3](#)
- [Creating the Monitoring Database, page 4](#)
- [Creating the Primary Node, page 5](#)
- [Creating a Service Node, page 6](#)
- [Setting URL Redirection from a Service Node to Primary Node, page 7](#)
- [System Tasks, page 8](#)
- [Backing Up with a Multi-Node Setup, page 12](#)
- [Restoring with a Multi-Node Setup, page 13](#)
- [Removing a Service Node, page 14](#)
- [Migrating a Standalone Appliance Database to a Multi-Node Setup, page 14](#)

Summary of Steps for Configuring a Multi-Node Setup

This procedure provides a high-level summary of the steps involved in configuring a multi-node setup.



Note

Plan your multi-node setup carefully. You can only change a service node to a primary node. You cannot change any other type of node after you configure it. For example, you cannot reconfigure a primary node as a service node or an inventory database node as a monitoring database node.

Step 1

Deploy a Cisco UCS Director VM for each node in the multi-node setup.
See [Cisco UCS Director Installation on VMware vSphere](#).

For example, if your multi-node setup, includes a primary node, an inventory database, a monitoring database, and three service nodes, deploy six Cisco UCS Director VMs.

Step 2 In the Cisco UCS Director shelladmin, configure the nodes in the following order:

- 1 [Creating the Inventory Database, on page 3](#)
- 2 [Creating the Monitoring Database, on page 4](#)
- 3 [Creating the Primary Node, on page 5](#)
- 4 [Creating a Service Node, on page 6](#)

Note You must create and start the inventory database and the monitoring database nodes before you configure the primary node and any service nodes.

Step 3 Update the license file in the Cisco UCS Director node that will be the primary node. You do not need to update the license file on any other node. See the "Updating the License" topic in [Cisco UCS Director Installation on VMware vSphere](#).

Step 4 In Cisco UCS Director on the primary node, configure the system tasks as follows:

- a) Create one or more node pools if you want to control the assignment of system tasks by service node, or accept the default node pool.
See [Creating a Node Pool, on page 9](#).
- b) Create one or more system task policies if you want to control the assignment of system tasks by service node, or accept the default task policy.
See [Creating a System Task Policy, on page 9](#).
- c) Configure the service nodes.
- d) Configure the primary node.
- e) Assign the system tasks to system policies if you want to control the assignment of system tasks by service node.
See [Assigning a System Policy to a System Task, on page 11](#).

For more information, see [System Tasks, on page 8](#).

Creating the Inventory Database

- Step 1** Log on to the Cisco UCS Director shelladmin on the inventory database node.
- Step 2** From the **Cisco UCS Director Shell** menu, choose `Configure Multi-Node Setup` and press Enter.
- Step 3** From the menu, choose `Configure Multi-Node Setup (Advanced Deployment)` and press Enter.
- Step 4** From the menu, choose `Current Node` to configure the current node.
- Step 5** When prompted, press `y` to continue with the configuration.
- Step 6** From the menu, choose the appropriate deployment type option: `Small`, `Medium`, or `Large`.
- Step 7** From the menu, choose `Configure as Inventory Database` and press Enter.
- Step 8** When prompted, press Enter to continue.
- Step 9** To verify that the services for the inventory database are up and running, choose `Display Services Status` and press Enter.
You should see the following lines:

```

Service      State      PID      %CPU %MEM      tELAPSED #Threads
-----
broker       UP        12358    0.5  0.8      06:11 32
controller   UP        12385    1.7  1.3      06:06 45
eventmgr     UP        12391    29.4 6.0      06:02 41
client       UP        12398    28.8 5.9      05:57 40
idaccessmgr  UP        12404    30.7 6.0      05:52 41
inframgr    UP        12415    69.1 24.4     05:47 121
websock      UP        12588    0.0  0.0      05:42 1
tomcat       UP        12461    12.8 11.6     05:37 34
flashpolicyd UP        12227    0.0  0.0      05:36 1
    
```

```

Database      IP Address      State      Client      Connections
-----
Inventory     172.29.109.134  UP        172.29.109.131  15
    
```

```

Disk          Size      Used      Available      %Use      Usage
-----
/dev/sda1     477M     111M     341M           25%     NORMAL
/dev/sdb      50G      28G      20G            59%     NORMAL
    
```

Press return to continue ...

After you return to the shelladmin, the menu options change to those available for an inventory database node.

Creating the Monitoring Database

- Step 1** Log on to the Cisco UCS Director shelladmin on the monitoring database node.
- Step 2** From the **Cisco UCS Director Shell** menu, choose `Configure Multi-Node Setup` and press Enter.
- Step 3** From the menu, choose `Configure Multi-Node Setup (Advanced Deployment)` and press Enter.
- Step 4** From the menu, choose `Current Node` to configure the current node.
- Step 5** When prompted, press `y` to continue with the configuration.
- Step 6** From the menu, choose the appropriate deployment type option: `Small`, `Medium`, or `Large`.
- Step 7** From the menu, choose `Configure as Monitoring Database` and press Enter.
- Step 8** When prompted, press Enter to continue.
- Step 9** To verify that the services for the monitoring database are up and running, choose `Display Services Status` and press Enter.
- You should see the following lines:

```

Service      State      PID      %CPU %MEM      tELAPSED #Threads
-----
broker       UP         12358    0.5  0.8      06:11 32
controller   UP         12385    1.7  1.3      06:06 45
eventmgr     UP         12391    29.4 6.0      06:02 41
client       UP         12398    28.8 5.9      05:57 40
idaccessmgr  UP         12404    30.7 6.0      05:52 41
inframgr     UP         12415    69.1 24.4     05:47 121
websock      UP         12588    0.0  0.0      05:42 1
tomcat       UP         12461    12.8 11.6     05:37 34
flashpolicyd UP         12227    0.0  0.0      05:36 1

```

```

Database      IP Address      State      Client      Connections
-----
Inventory     172.29.109.134  UP         172.29.109.131 15
Monitoring    172.29.109.135  UP         172.29.109.131 12

```

```

Disk      Size      Used      Available      %Use      Usage
-----
/dev/sda1 477M      111M      341M           25%       NORMAL
/dev/sdb  50G       28G       20G            59%       NORMAL

```

Press return to continue ...

After you return to the shelladmin, the menu options change to those available for a monitoring database node.

Creating the Primary Node

Before You Begin

The inventory and monitoring databases must be up and running before you create the primary node.



Note Do not run any daemons on the primary database.

- Step 1** Log on to the Cisco UCS Director shelladmin on the primary node.
- Step 2** From the **Cisco UCS Director Shell** menu, choose `Configure Multi-Node Setup` and press Enter.
- Step 3** From the menu, choose `Configure Multi-Node Setup (Advanced Deployment)` and press Enter.
- Step 4** From the menu, choose `Current Node` to configure the current node.
- Step 5** When prompted, press `y` to continue with the configuration.
- Step 6** From the menu, choose the appropriate deployment type option: `Small`, `Medium`, or `Large`.
- Step 7** From the menu, choose `Configure as Primary Node` and press Enter.
- Step 8** At the `Provide Inventory DB IP` prompt, enter the IP address assigned to the Cisco UCS Director VM for the inventory database.
This step registers the VM as a primary node with the inventory database.
- Step 9** At the `Provide Monitoring DB IP` prompt, enter the IP address assigned to the Cisco UCS Director VM for the monitoring database.
This step registers the VM as a primary node with the monitoring database.
- Step 10** When prompted, press Enter to continue.
- Step 11** To verify that the services for the primary node are up and running, choose `Display Services Status` and press Enter.
You should see the following lines:

| Service | State | PID | %CPU | %MEM | tELAPSED | #Threads |
|--------------|-------|-------|------|------|----------|----------|
| broker | UP | 12358 | 0.5 | 0.8 | 06:11 | 32 |
| controller | UP | 12385 | 1.7 | 1.3 | 06:06 | 45 |
| eventmgr | UP | 12391 | 29.4 | 6.0 | 06:02 | 41 |
| client | UP | 12398 | 28.8 | 5.9 | 05:57 | 40 |
| idaccessmgr | UP | 12404 | 30.7 | 6.0 | 05:52 | 41 |
| inframgr | UP | 12415 | 69.1 | 24.4 | 05:47 | 121 |
| websock | UP | 12588 | 0.0 | 0.0 | 05:42 | 1 |
| tomcat | UP | 12461 | 12.8 | 11.6 | 05:37 | 34 |
| flashpolicyd | UP | 12227 | 0.0 | 0.0 | 05:36 | 1 |

| Database | IP Address | State | Client | Connections |
|------------|----------------|-------|----------------|-------------|
| Inventory | 172.29.109.134 | UP | 172.29.109.131 | 15 |
| Monitoring | 172.29.109.135 | UP | 172.29.109.131 | 12 |

| Disk | Size | Used | Available | %Use | Usage |
|-----------|------|------|-----------|------|--------|
| /dev/sda1 | 477M | 111M | 341M | 25% | NORMAL |
| /dev/sdb | 50G | 28G | 20G | 59% | NORMAL |

Press return to continue

After you return to the shelladmin, the menu options change to those available for a primary node.

Creating a Service Node

Before You Begin

The inventory and monitoring databases must be up and running before you create the primary node.

- Step 1** Log on to the Cisco UCS Director shelladmin on the service node.
- Step 2** From the **Cisco UCS Director Shell** menu, choose `Configure Multi-Node Setup` and press Enter.
- Step 3** From the menu, choose `Configure Multi-Node Setup (Advanced Deployment)` and press Enter.
- Step 4** From the menu, choose `Current Node` to configure the current node.
- Step 5** When prompted, press `y` to continue with the configuration.
- Step 6** From the menu, choose the appropriate deployment type option: `Small`, `Medium`, or `Large`.
- Step 7** From the menu, choose `Configure as Service Node` and press Enter.
- Step 8** At the `Provide Inventory DB IP` prompt, enter the IP address assigned to the Cisco UCS Director VM for the inventory database.
This step registers the VM as a service node with the inventory database.
- Step 9** At the `Provide Monitoring DB IP` prompt, enter the IP address assigned to the Cisco UCS Director VM for the monitoring database.
This step registers the VM as a service node with the monitoring database.
- Step 10** When prompted, press Enter to continue.
- Step 11** To verify that the services for the service node are up and running, choose `Display Services Status` and press Enter.
You should see the following lines:

| Service | State | PID | %CPU | %MEM | tELAPSED | #Threads |
|-------------|-------|-------|------|------|----------|----------|
| broker | UP | 12358 | 0.5 | 0.8 | 06:11 | 32 |
| controller | UP | 12385 | 1.7 | 1.3 | 06:06 | 45 |
| eventmgr | UP | 12391 | 29.4 | 6.0 | 06:02 | 41 |
| client | UP | 12398 | 28.8 | 5.9 | 05:57 | 40 |
| idaccessmgr | UP | 12404 | 30.7 | 6.0 | 05:52 | 41 |

```

inframgr      UP           12415   69.1 24.4      05:47 121
websock       UP           12588   0.0 0.0        05:42 1
tomcat        UP           12461   12.8 11.6       05:37 34
flashpolicyd UP           12227   0.0 0.0        05:36 1
    
```

```

Database      IP Address      State   Client      Connections
-----
Inventory     172.29.109.134 UP      172.29.109.131 15
Monitoring    172.29.109.135 UP      172.29.109.131 12
    
```

```

Disk          Size          Used         Available   %Use        Usage
-----
/dev/sda1     477M          111M         341M        25%         NORMAL
/dev/sdb      50G           28G          20G         59%         NORMAL
    
```

Press return to continue

After you return to the shelladmin, the menu options change to those available for a service node.

Step 12 Repeat this procedure for every service node.

Setting URL Redirection from a Service Node to Primary Node

You can enable automatic redirection from a service node to a primary node. Whenever users try to log on to the Cisco UCS Director appliance from a service node, the automatic redirection takes the user to the appliance in the primary node. To enable automatic redirection, do the following in the Cisco UCS Director appliance on the primary node. Specifically, add the primary node IP Address in the Mail Setup pane.

Before You Begin

Configure the primary node and the service nodes before setting URL redirection from a service node to a primary node.

Step 1 On the menu bar, choose **Administration > System**.

Step 2 Choose the **Mail Setup** tab.

Step 3 In the **Mail Setup** pane, complete the following fields:

| Name | Description |
|------------------------------------|---------------------------------------|
| Outgoing Email Server (SMTP) field | The outgoing SMTP server address. |
| Outgoing SMTP Port field | The outgoing SMTP server port number. |
| Outgoing SMTP User field | The user ID. |

| Name | Description |
|---|--|
| Outgoing SMTP Password field | The user password. |
| Outgoing Email Sender Email Address field | The sender's email address |
| Server IP address field | The IP address or DNS name of the primary node. The redirection from the service node happens to the IP address provided here. |
| Send Test Email check box | Check this check box to test the current email settings. |

System Tasks

The **System Tasks** tab displays all the system tasks that are currently available in Cisco UCS Director. However, this list of system tasks is linked to the type of accounts that you have created in Cisco UCS Director. For example, if you have logged in for the first time, then only a set of general system-related tasks or VMware related tasks are visible on this page. When you add accounts, such as rack accounts or Cisco UCS Manager accounts, system tasks related to these accounts are populated on this page.

Following are the tasks that you can complete from the **System Tasks** page:

- View the available systems tasks—You can use the **Expand** and **Collapse** options to view all the system tasks that are available on this page. The tasks are categorized according to the accounts available in Cisco UCS Director. For example: Cisco UCS Tasks or NetApp Tasks.
- Disable and enable system tasks—In circumstances when there are multiple processes or tasks running on the appliance, you can choose to disable a system task. If you do so, then until such time that you manually enable it, the system task will not run. This will affect the data populated in other reports. For example, if you disable an inventory collection system task, then reports that require this data may not display accurate data. In this case, you will have to manually run an inventory collection process, or enable the system task.

For more information, see [Disabling or Enabling a System Task](#), on page 12.

In a single-node setup, where there is only one server, all system tasks will run on this server. In a multi-node setup, where there are multiple servers configured, all system tasks, by default, run on the primary server. However, you can specify system tasks to run on the secondary servers. Following are the recommended steps to perform this task:

- 1 Ensure that the secondary servers are available in Cisco UCS Director as nodes. If the servers are not available, then you must add the servers as nodes. For more information, see [Creating a Service Node](#), on page 10.
- 2 Create a node pool from the available servers. For more information, see [Creating a Node Pool](#), on page 9.

- 3 Create a system task policy, and associate it with a node policy. For more information, see [Creating a System Task Policy, on page 9](#).
- 4 Associate a node pool with the system task policy. For more information, see [Assigning a Node Pool to a System Task Policy, on page 10](#).
- 5 Select a system task, and associate it with a system-task policy. For more information, see [Assigning a System Policy to a System Task, on page 11](#).

Creating a Node Pool

-
- Step 1** On the menu bar, choose **Administration > System**.
 - Step 2** Choose the **Service Nodes** tab.
 - Step 3** Click the **Service Node Pools** icon. The **Service Node Pool** dialog box displays.
 - Step 4** Click the + (plus) icon. The **Add Entry to Service Node Pools** dialog box displays.
 - Step 5** In the **Name** field, enter the node pool name.
 - Step 6** (Optional) In the **Description** field, enter a description of the node pool name.
 - Step 7** Click **Submit**. The node pool is created.
-

Creating a System Task Policy

As an administrator, you can choose to combine a few policies and create a system task policy, in addition to the default system task policy. You can group system tasks into a system task policy to later determine which system tasks are running on which node.

-
- Step 1** On the menu bar, choose **Administration > System**.
 - Step 2** Choose the **System Task Policy** tab.
 - Step 3** Click the **Add** icon. The **Add** dialog box displays.
 - Step 4** In the **Name** field, enter the name that you gave the system task policy.
 - Step 5** (Optional) In the **Description** field, enter a description of the system task policy.
 - Step 6** From the **Node Pool** drop-down list, choose the node pool to which this system task policy belongs.
 - Step 7** Click **Submit**.
The selected node pool now belongs to the newly created system task policy.
-

Assigning a Node Pool to a System Task Policy

-
- Step 1** On the menu bar, choose **Administration > System**.
- Step 2** Choose the **System Task Policy** tab.
- Step 3** Select an existing system task policy from the **Name** column and click the **Edit** icon. The **Edit** dialog box displays.
Note If the default system task policy is used, you can assign service nodes to this policy. See [Creating a System Task Policy](#), on page 9, if you want to configure a policy that is different from the default.
- Step 4** From the Node Pool drop-down list, choose a node pool to which this **System Task Policy** belongs.
- Step 5** Click **Submit**.
 The selected node pool now belongs to the system task policy.
-

Creating a Service Node

-
- Step 1** On the menu bar, choose **Administration > System**.
- Step 2** Choose the **Service Nodes** tab.
- Step 3** Click the **Add (+)**
- Step 4** In the **Service Node** dialog box, complete the following fields:

| Name | Description |
|---|--|
| Node Name field | The name of the service node. |
| Role field | You cannot edit this field. By default, this field displays Service as the role of this node. |
| Service Node Pool drop-down list | By default, the default-service-node-pool is displayed. |
| DNS Name field | Enter either the DNS name or IP address of the service node. Note This field cannot use the Primary Node's IP address. Ensure that a valid Service Node DNS name or IP address is entered. |
| Description field | The description of the of the service node. |
| Protocol drop-down list | Choose either http (default) or https. |
| Port field | The default TCP port for the Hypertext Transfer Protocol (HTTP) 80 is entered by default. Enter a different TCP port if necessary. |

| Name | Description |
|----------------|--|
| UserName field | <p>The infraUser user name is entered by default.</p> <p>The infraUser is a user account created by default. To find this user account on the menu bar, choose Administration > Users and Groups.</p> <p>Choose the Login Users tab to find the infraUser user account in the Login Name column.</p> <p>Note The InfraUser user name is not the default administrator user to login to the system. Another user name can be added to this field. This user's API key is used to authenticate with the Service Node.</p> |

Step 5 Click **Submit**.

Assigning a System Policy to a System Task

- Step 1** On the menu bar, choose **Administration > System**.
- Step 2** Choose the **System Task** tab.
- Step 3** Choose a folder that contains system tasks. Click the folder arrow to expand its tasks.
Note 128 system tasks are available.
- Step 4** Choose the task and click the **Manage Task** icon.
The **Manage Task** dialog box appears.
- Step 5** From the **Task Execution** drop-down list, choose **Enable**.
- Step 6** From the **System Task Policy** drop-down list, choose a system policy.
- Step 7** Click **Submit**.
The system task is assigned to the selected system policy.
-

Executing System Tasks

Cisco UCS Director includes a few system tasks that cannot be run remotely on a service node. Also, you can assign a system policy remotely from the local host or the primary node.

In addition, you can search and select a specific system task, and run it immediately in the system.

-
- Step 1** On the menu bar, choose **Administration > System**.
- Step 2** Choose the **System Tasks** tab.
- Step 3** Choose a task from the list.
- Step 4** Click **Run Now**.
The result of the executed system task is updated in the user interface.
-

Disabling or Enabling a System Task

-
- Step 1** On the menu bar, choose **Administration > System**.
- Step 2** Choose the **System Task** tab.
- Step 3** Choose a folder that contains one or more system tasks. Click the folder arrow to expand its tasks.
Note 128 system tasks are available.
- Step 4** Choose the task and click the **Manage Task** icon.
The **Manage Task** dialog box appears.
- Step 5** To disable a system task, from the **Task Execution** drop-down list, choose **Disable**.
- Step 6** To enable a system task, from the **Task Execution** drop-down list, choose **Enable**.
- Step 7** Click **Submit**.
-

Backing Up with a Multi-Node Setup

This procedure provides a high-level summary of the steps required to back up a multi-node setup.

The backup procedure requires you to first stop the Cisco services. This must be done before you work with the Monitoring and Inventory databases. Then you back up the databases, after which you re-start the services, starting with the Primary node.

Before You Begin

To back up the databases, you use an FTP server, for which you will need:

- An FTP server account and the IP address
- The FTP server's login credentials
- Backup file name(s)

SUMMARY STEPS

1. Shut down the services for both the Primary and Service nodes. Use the, Stop Services Shell option.
2. Back up the Monitoring database. Use the Backup Database Shell option.
3. Backup the Inventory database. Use the Backup Database Shell option.
4. Start the Services (Service nodes first, followed by Primary node). Use the Start Services Shell option.

DETAILED STEPS

-
- | | |
|---------------|--|
| Step 1 | Shut down the services for both the Primary and Service nodes. Use the, Stop Services Shell option. |
| Step 2 | Back up the Monitoring database. Use the Backup Database Shell option. |
| Step 3 | Backup the Inventory database. Use the Backup Database Shell option. |
| Step 4 | Start the Services (Service nodes first, followed by Primary node). Use the Start Services Shell option. |
-

Restoring with a Multi-Node Setup

This procedure provides a high-level summary of the steps required to restore a multi-node setup.

The restore procedure requires you to first stop the Cisco services. This must be done before you work with the Monitoring and Inventory databases. Then you restore the databases, after which you re-start the services, starting with the Primary node.

Before You Begin

To restore the databases, you use an FTP server, for which you will need:

- An FTP server account and the IP address
- The FTP server's login credentials
- Backup file name(s)

SUMMARY STEPS

1. Shut down the services for both the Primary and Service nodes. Use Shell option 3, Stop Services.
2. Restore the Monitoring database. Use the Shell Restore Database option.
3. Restore the Inventory database. Use the Shell Restore Database option.
4. Start the Services (Service nodes first, followed by Primary node). Use Shell option 4, Start Services.

DETAILED STEPS

-
- Step 1** Shut down the services for both the Primary and Service nodes. Use Shell option 3, Stop Services.
 - Step 2** Restore the Monitoring database. Use the Shell Restore Database option.
 - Step 3** Restore the Inventory database. Use the Shell Restore Database option.
 - Step 4** Start the Services (Service nodes first, followed by Primary node). Use Shell option 4, Start Services.
-

Removing a Service Node

This procedure provides a high-level summary of the steps required to remove a service node from a multi-node setup.

The removal procedure requires you to first stop the Cisco services. This must be done before you remove a service node from Monitoring and Inventory databases.

-
- Step 1** Shut down the services for both the Primary node and the Service node(s). Use Shell option 3, Stop Services.
 - Step 2** Start the services on the Service node(s) that you want to be active and operational. Use Shell option 4, Start Services.
 - Step 3** Start the services on the Primary node. Use Shell option 4, Start Services.
 - Step 4** Using the Cisco UCS Director GUI, delete the Service node that you want to remove. This removes the respective Service node from the database.
-

Migrating a Standalone Appliance Database to a Multi-Node Setup

This procedure backs up and restores only the selected database tables required for each of the inventory database and the monitoring database.

-
- Step 1** In the shelladmin, choose `Login as Root` to log in to the upgraded Cisco UCS Director.
 - Step 2** Back up the database tables required for the inventory database, as follows:
 - a) Navigate to the `/opt/infra` folder.

```
cd /opt/infra
```

- b) From `Infra`, run the `dbInfraBackupRestore.sh` script.

```
# ./dbInfraBackupRestore.sh backup
```

This script takes a database backup with the tables required for the inventory database.

- c) After the script has been executed, check for an output file in /tmp folder named `infra_database_backup.tar.gz`.

Step 3 Back up the database tables required for the monitoring database, as follows:

- a) Navigate to the `/opt/infra` folder.

```
cd /opt/infra
```

- b) From `Infra`, run the `dbMonitoringBackupRestore.sh` script.

```
# ./dbMonitoringBackupRestore.sh backup
```

This script takes a database backup with the tables required for the monitoring database.

- c) After the script has been executed, check for an output file in /tmp folder named `monitoring_database_backup.tar.gz`.

Step 4 Deploy a Cisco UCS Director VM for each node in the multi-node setup.

For example, if your multi-node setup, includes a primary node, an inventory database, a monitoring database, and three service nodes, deploy six Cisco UCS Director VMs.

Step 5 In the shelladmin, configure the nodes in the following order:

- 1 [Creating the Inventory Database, on page 3](#)
- 2 [Creating the Monitoring Database, on page 4](#)
- 3 [Creating the Primary Node, on page 5](#)
- 4 [Creating a Service Node, on page 6](#)

Note You must create and start the inventory database and the monitoring database nodes before you configure the primary node and any service nodes.

Step 6 In the shelladmin, choose `Stop services` to stop the Cisco UCS Director services on the primary node and all service nodes.

Step 7 Restore the database to the inventory database, as follows:

- a) Copy the `infra_database_backup.tar.gz` to the /tmp folder on the node that hosts the inventory database.
- b) On the inventory database node, navigate to the `/opt/infra` folder.

```
cd /opt/infra
```

- c) From `Infra`, run the `dbInfraBackupRestore.sh` script.

```
# ./dbInfraBackupRestore.sh restore
```

The script restores the database backup from the backup file in the /tmp folder .

Step 8 Restore the database to the monitoring database, as follows:

- a) Copy the `monitoring_database_backup.tar.gz` to the /tmp folder on the node that hosts the monitoring database.

- b) Navigate to the `/opt/infra` folder.

```
cd /opt/infra
```

- c) From Infra, run the `dbMonitoringBackupRestore.sh` script.

```
# ./dbMonitoringBackupRestore.sh restore
```

The script restores the database backup from the backup file in the `/tmp` folder .

Step 9

Choose `Start services` on the primary node and all service nodes to start the Cisco UCS Director services. After you log in to the primary node, all data from the database in the Cisco UCS Director standalone appliance should be available.
