



# Managing Physical Infrastructure

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**Note**

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You must be logged in to the appliance before you can run any of the following procedures.

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## About Managing Physical Infrastructure

Cisco UCS Director lets you manage both physical and virtual infrastructure.

Cisco UCS Director discovers all components in the newly created physical account. Typically, the discovery process takes about 5 minutes.

You can add a data center, or use the default data center. A physical account can be associated with the default data center or to one that you add.



**Note**

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You can add either type of infrastructure first (physical or virtual). A physical account in Cisco UCS Director has no dependency on a virtual (cloud) account.



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## Adding a Data Center

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- Step 1** Click **Administration > Physical Accounts**.
- Step 2** Choose the **Data Centers** tab.
- Step 3** Click **Add (+)**.

**Step 4** In the **Add Datacenter** dialog box, complete the following fields:

Name	Description
Name field	A descriptive name for the data center.
Type drop-down list	<p>Choose the Type that you want to add. A Pod Type is a logical grouping of specific devices based on device type, vendor, and model. You can choose one of the following Pod types:</p> <ul style="list-style-type: none"> <li>• FlexPod</li> <li>• GenericPod</li> <li>• ExpressPod Medium</li> <li>• ExpressPod Small</li> <li>• VSPEX</li> <li>• Vblock</li> </ul> <p> <b>Note</b> You can typically only add only device types that belong to that Pod Type. The exception is GenericPod, which allows any device.</p> <p> <b>Note</b> You must have a small or medium pod license to add a compatible device into ExpressPod Small or ExpressPod Medium. For all other Pod Types, only device type compatibility is enforced.</p>
Description field	(Optional) The description of the data center.
Address field	The physical location of the data center. For example this field could include the city or other internal identification used for the data center.

**Step 5** Click **Add**.

## Adding a Physical Account

**Step 1** Click **Administration > Physical Accounts**.

**Step 2** Choose the **Physical Accounts** tab.

**Step 3** Click **Add (+)**.

**Step 4** In the **Add Account** dialog box, complete the following fields:

Name	Description
Data Center drop-down list	Choose the data center to which this physical account belongs.
Category drop-down list	<p>Choose the category type (Computing or Storage).</p> <p>If you chose <b>Storage</b>, continue to Step 5.</p>

Name	Description
Account Type drop-down list	Choose the account type for this physical account. This can be one of the following: <ul style="list-style-type: none"> <li>• UCSM</li> <li>• HP ILO</li> <li>• Cisco Rack Server (CIMC)</li> <li>• IPMI</li> </ul>
Authentication Type drop-down list	Choose the authentication type to be used for this account. This can be one of the following: <ul style="list-style-type: none"> <li>• <b>Locally Authenticated</b>—A locally authenticated user account is authenticated directly through the fabric interconnect, and can be enabled or disabled by anyone with admin or AAA privileges.</li> <li>• <b>Remotely Authenticated</b>—A remotely authenticated user account is any user account that is authenticated through LDAP, RADIUS, or TACACS+.</li> </ul>
Account Name field	A unique name that you assign to the physical account that you want to add.
Server Address field	The IP address of the server.
User ID field	The user name for accessing this account.
Password field	The password associated with the user name.
Transport Type drop-down list	Choose the transport type that you want to use for the account. This can be one of the following: <ul style="list-style-type: none"> <li>• <b>http</b></li> <li>• <b>https</b></li> </ul>
Port field	The server port number.
Description field	(Optional) The description of the account.
Contact Email field	(Optional) The contact email address for the account.
Location field	(Optional) The location.
Service Provider field	(Optional) The service provider's name, if any.

**Step 5** If this account is Storage, choose the appropriate account type: **NetApp ONTAP**, **NetApp OnCommand**, **EMC VNX**, or **EMC VMAX Solutions Enabler**.

**Step 6** Click **Add**.

## Adding a Network Element

**Step 1** Click **Administration > Physical Accounts**.

**Step 2** Choose the **Managed Network Elements** tab.

**Step 3** Click **Add Network Element**.

**Step 4** In the **Add Network Element** dialog box, complete the following fields:

Name	Description
Data Center drop-down list	The data center to which the network element belongs.
Device Category drop-down list	The device category for this network element.
Device IP field	The IP address for this device.
Protocol drop-down list	The protocol to be used. This can be one of the following: <ul style="list-style-type: none"> <li>telnet</li> <li>ssh</li> </ul>
Port field	The port to use.
Login field	The login name.
Password field	The password associated with the login name.
Enable Password field	The enable password for this network element.

**Step 5** Click **Submit**.

**Step 6**

## Enabling DHCP Logging

**Step 1** Click **Administration > Physical Accounts**.

**Step 2** Choose the **Network Service Agents** tab.

**Step 3** Click **Embedded Network Services**.

**Step 4** In the **Embedded Network Services** dialog box, check the **Enable DHCP Logging check box**.

## Testing Connectivity

**Step 1** Click **Administration > Physical Accounts**.

**Step 2** Choose the **Physical Accounts** tab.

**Step 3** Choose the account that you want to test.

**Step 4** Click **Test Connection**.

# Verifying Device Discovery

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- Step 1** Click **Administration > Physical Accounts**.
- Step 2** Click on an account for which you want to verify device discovery.
- Step 3** Choose the **Discovered Devices** tab.
- Step 4** Click **Setup Discovery**.
- Step 5** In the **Setup Discovery** dialog box, verify the following fields:

Name	Description
Enable Discovery check box	The checkbox is checked by default to enable device discovery for this account.
IP Range	The IP address range for device discovery.
TCP Timeout (ms)	TCP timeout (ms).
SNMP Timeout (ms)	SNMP timeout (ms).
SNMP Community Strings	The SNMP community string (default is public).

- Step 6** Click **Submit**.
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