



# Managing Rack Server Discovery

This chapter discusses the following topics:

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## Discovering and Importing Rack Servers

To discover rack servers in Cisco UCS Director, you can specify configuration criteria and save it as a rack server discovery profile. Using this profile, you can discover multiple rack servers simultaneously and import them into Cisco UCS Director.

With a discovery profile, you can choose to discover rack servers with one of the following options:

- IP address range—Discovers all rack servers with IP addresses within the specified range.
- Subnet range—Discovers all rack servers within the specified subnet range.
- IP Address CSV file—Discovers rack servers with IP addresses that match those specified in the uploaded CSV file.
- Specific IP addresses—Discovers rack servers with IP addresses that match the IP addresses you specify.

Perform this procedure when you want to discover and import rack servers.

### Procedure

	Command or Action	Purpose
<b>Step 1</b>	Configure a rack server discovery profile.	Refer <a href="#">Configuring a Rack Discovery Profile, on page 2</a> .
<b>Step 2</b>	Discover servers using the profile.	Refer <a href="#">Performing Auto Discovery, on page 4</a> .

	Command or Action	Purpose
<b>Step 3</b>	Import the servers.	Refer <a href="#">Importing One or More Rack Servers</a> , on page 4.
<b>Step 4</b>	(Optional) Delete a discovery profile.	Refer <a href="#">Deleting Auto Discovery Profile</a> , on page 6.
<b>Step 5</b>	(Optional) Clear a server from the auto discovered list.	Refer <a href="#">Clearing Auto Discovery List</a> , on page 6.

## Configuring a Rack Discovery Profile

You can configure a rack discovery profile using which the system can automatically discover rack mount servers. Perform this procedure when you want to add a rack discovery profile.

### Procedure

- Step 1** Choose **Administration > Physical Accounts**.
- Step 2** On the **Physical Accounts** page, click **Rack Server Discovery Profiles**.
- Step 3** Click **Add**.
- Step 4** In the **Add Discovery Profile** screen, complete the required fields, including the following:

Field	Description
<b>Profile Name</b> field	A descriptive name for the profile.
<b>Search Criteria</b> drop-down list	Select <b>IP Address Range</b> , <b>Subnet Mask Range</b> , <b>IP Address CSV File</b> or <b>IP Address List</b> from the drop-down list.
If you select <b>IP Address Range</b>	
<b>Starting IP</b> field	Valid IP address
<b>Ending IP</b> field	Valid IP address
If you select <b>Subnet Mask Range</b>	
<b>Network Address</b> field	Valid IP address
<b>Subnet Mask</b> drop-down list	Select a value from the drop-down list. This drop-down list shows the available subnets in the network.
If you select <b>IP Address CSV File</b>	
<b>Select a file for upload</b> field	Click <b>Select a File</b> and navigate to a .csv file which contains the IP addresses.
<b>Sample CSV File</b> field	Click <b>File Template</b> to download a sample CSV file.
If you select <b>IP Address List</b>	

Field	Description
<b>IP Addresses</b> field	Enter multiple IP addresses separated by comma.
<b>Use Credential Policy</b> check box	If you have already created credential policies, then check this box to select the policy from the drop-down list.
If you check <b>Use Credential Policy</b> check box	
<b>Credential Policy</b> drop-down list	Choose a policy from the drop-down list or click the + icon to create a new policy.
<b>Description</b> field	Enter a description for the server.
<b>Contact</b> field	Enter the contact details of the server administrator.
<b>Location</b> field	Enter the geographic location of the server.
<b>Rack Group</b> drop-down list	Choose a rack group or create a new rack group.
If you uncheck <b>Use Credential Policy</b> check box	
<b>User Name</b> field	The login name.
<b>Password</b> field	The login password
<b>Protocol</b> drop-down list	Choose https or http from the list.
<b>Port</b> field	Enter a port number.

**Note** If you choose **IP Address CSV File**, you can specify additional fields such as IP, description, location, contact, rack group and tags in the CSV file in the following format:

- <ip>
- (optional) <description>
- (optional) <location>
- (optional) <contact>
- (optional) <rack group>
- (optional) <tag name:tag value>;<tag name:tag value>

You can specify either an existing value or a new value for the Rack Group field and the Tags field. Specifying a value for these fields is optional. If you do not specify a value for the Rack Group field in the CSV file, then the Default Group is used.

When you upgrade to the current Cisco UCS Director version, replace the existing CSV file with the CSV file you have created in the new format using the **Select a File** option.

The tag type will only be of type **STRING**.

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

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**What to do next**

Click **Discover** to select a profile, and discover devices that match the profile.

## Performing Auto Discovery

Perform this procedure when you want to perform auto discovery.

**Before you begin**

You should configure a profile based on which Cisco UCS Director can discover the rack servers.

**Procedure**

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- Step 1** Choose **Administration > Physical Accounts**.
- Step 2** On the **Physical Accounts** page, click **Rack Server Discovered Devices**.
- Step 3** Click **Discover**.
- Step 4** In the **Discover Devices** screen, expand the **Select Profile** list and check the check boxes of the profiles.
- Step 5** (Optional) You can choose to schedule this task to run at a later point in time by checking the **Schedule Later** check box.
- If you check this check box, then you can either select a schedule that you previously created or create a new schedule. For information on creating a new schedule, see [Creating Schedules](#).
- Step 6** Click **Submit**.
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## Importing One or More Rack Servers

Perform this procedure when you want to import one or more rack servers that were discovered using the discovery profile.



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**Important** You cannot perform multiple account-related tasks, such as adding, modifying or importing accounts, simultaneously in Cisco UCS Director. We recommend that you wait for one task to complete, before initiating another task. For example, while importing discovered devices into a rack group, we recommend that you let you this task complete before you edit any other rack groups or rack accounts.

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**Before you begin**

- You should configure a profile based on which Cisco UCS Director can discover the devices.
- You have already discovered rack servers using the discovery profile.

### Procedure

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- Step 1** Choose **Administration > Physical Accounts**.
- Step 2** On the **Physical Accounts** page, click **Rack Server Discovered Devices**.
- Step 3** Click **Import**.
- Step 4** In the **Import Discovered Devices** screen, complete the required fields, including the following:

Field	Description
Select Device(s) list	Expand the list of devices that have been discovered. Check the check boxes of all the servers you want to import.
User Prefix field	Enter a prefix for the user.

- Step 5** Click **Submit**.
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## Setting Properties for Discovered Devices

Perform this procedure when you want set specific properties for discovered devices.

### Before you begin

You should have configured a discovery profile based on which devices can be discovered.

### Procedure

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- Step 1** Choose **Administration > Physical Accounts**.
- Step 2** On the **Physical Accounts** page, click **Rack Server Discovered Devices**.
- Step 3** Select a device and choose **Set Properties**.
- Step 4** In the **Set Properties** screen, complete the required fields, including the following:

Field	Description
Description field	Enter a description of the server.
Contact field	Enter the contact number of a person who can attend to the issues on the server.
Location field	Enter the address of the server.
Select Rack Group drop-down list	Choose a rack group from the list or create a new rack group.

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

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## Clearing Auto Discovery List

Perform this procedure when you want to delete a server or all the servers from the auto discovered list.

### Before you begin

- You should configure a profile based on which Cisco UCS Director can discover the devices.
- You have already performed auto discovery.

### Procedure

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- Step 1** Choose **Administration > Physical Accounts**.
- Step 2** On the **Physical Accounts** page, click **Rack Server Discovered Devices**.
- Step 3** Click **Clear**.
- Step 4** In the **Clear Devices** screen, click **Delete**.
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## Deleting Auto Discovery Profile

Perform this procedure when you want to delete an automatic discovery profile.

### Before you begin

You should configure a profile based on which Cisco UCS Director can discover the devices.

### Procedure

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- Step 1** Choose **Administration > Physical Accounts**.
- Step 2** On the **Physical Accounts** page, click **Rack Server Discovery Profiles**.
- Step 3** Select a profile from the table, and click **Delete**.
- Step 4** In the **Delete Discovery Profile** screen, click **Submit**.
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