Configuring Cisco UCS Director PowerShell Agent

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Configuring Cisco UCS Director PowerShell Agent

Once Cisco UCS Director PowerShell Agent is installed and running on a Windows Server 2008 R2 machine, you need to add it to Cisco UCS Director. You must set up the virtual account (for example, XenDesktop Controller or Hyper-V SCVMM) to use the agent for inventory collection and other management functions.

Adding PowerShell Agent to Cisco UCS Director

**Step 1**

On the menu bar, choose **Administration > Virtual Accounts > PowerShell Agents**.

**Step 2**

Click **Add**. In the **Add Agent** dialog box, complete the following fields.

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agent name field</td>
<td>The name of the PowerShell Agent.</td>
</tr>
<tr>
<td>Agent Address field</td>
<td>The IP address or FQDN (Fully Qualified Domain name) of the PowerShell Agent.</td>
</tr>
</tbody>
</table>
## Adding PowerShell Agent to Cisco UCS Director

### Name | Description
--- | ---
**Agent Access Port** field | The port assigned to the PowerShell Agent.
**Note** | The default port address is 43891. These values are pre-populated with default values. The PowerShell Agent is pre-configured to use these values and UCS Director must have matching values. These values can be changed on the Agent, but UCS Director must always use them as well.

**Access key** field | The default access key assigned to the PowerShell Agent.
**Note** | These values are prepopulated with default values. The PowerShell agent is preconfigured to use these values and Cisco UCS Director must have matching values. These values can be changed on the PowerShell Agent, but Cisco UCS Director must always use them as well.

**Description** field | The description of the PowerShell Agent.

### Step 3
Click **Submit**.

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**What to Do Next**
Verify connectivity between Cisco UCS Director and the PowerShell Agent.

**Verifying Connectivity with Cisco UCS Director**

After the PowerShell Agent is added, you can check the connectivity between Cisco UCS Director and the PowerShell Agent.

### Step 1
On the menu bar, choose **Administration** > **Virtual Accounts** > **PowerShell Agents**.

### Step 2
Click the **Test Connect** icon.
Cisco UCS Director displays a success message if it can communicate with the PowerShell Agent.

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**What to Do Next**
Execute the Cisco UCS Director PowerShell command on the target server.
Executing a Cisco UCS Director PowerShell Command on a Target Server

Cisco UCS Director provides a mechanism to test connectivity to a target server through the PowerShell Agent (end-to-end connectivity).

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 1</td>
<td>On the menu bar, choose Administration &gt; Virtual Accounts &gt; PowerShell Agents.</td>
</tr>
<tr>
<td>Step 2</td>
<td>Click the Execute Command icon.</td>
</tr>
<tr>
<td>Step 3</td>
<td>In the Execute PowerShell Command dialog box, complete the following fields:</td>
</tr>
<tr>
<td>Name</td>
<td>Description</td>
</tr>
<tr>
<td>Target Machine IP field</td>
<td>The IP address of the target machine.</td>
</tr>
<tr>
<td>User ID field</td>
<td>The unique ID assigned to the user.</td>
</tr>
<tr>
<td>Password field</td>
<td>The assigned password.</td>
</tr>
<tr>
<td>Domain field</td>
<td>The current server domain.</td>
</tr>
<tr>
<td>Command field</td>
<td>The field to enter your command to execute.</td>
</tr>
<tr>
<td>Command Output field</td>
<td>The results of the execution appear in this field.</td>
</tr>
</tbody>
</table>

| Step 4 | Click Execute. The Command Output window displays the execution results. |
| Step 5 | Click Close. |

Executing a PowerShell Agent Command on a Target Server

A workflow can use a task that executes PowerShell commands against a target server. The workflow task Execute PowerShell Command uses the following inputs:

- PowerShell Agent
- Target Server's credentials (IP address, username and password, and domain)
- PowerShell command.
In addition, instead of a series of commands you can provide the path to a PowerShell script on the target server (for example: \scripts\DoSomething.ps1). The PowerShell Agent executes the script as long as it exists at the specified path on the target server.

The workflow consists of the following Orchestrator elements:

- Start icon
- Execute PowerShell Command task icon
- Both Completed (Success) task and Competed (Failed)-task icons

In the above example, the PowerShell command is mapped to a user input, while the rest of the inputs are preconfigured within the task itself. When you execute the workflow in Cisco UCS Director you are prompted to enter the PowerShell Agent commands to run on a target server. Use a ";" to separate multiple commands (for example, Hostname; Get-Process). Cisco UCS Director runs the commands against the target server and displays the output as an XML string in a service request log window.