Using Orchestration Workflows

- Orchestration Workflows for Rack Servers, on page 1
- Orchestration Tasks for Rack Servers, on page 1
- Sample Workflow: Power Cycling a Rack Server, on page 2

Orchestration Workflows for Rack Servers

Cisco UCS Director includes orchestration features that allow you to create workflows to automate the configuration and management of tasks that are typically managed by Cisco Integrated Management Controller (Cisco IMC). Some tasks, such as associating a rack server profile with a rack server or adding a vNIC or a vHBA to a rack-mount server, can only be done through a workflow.

For an example of a workflow for a rack server, see Sample Workflow: Power Cycling a Rack Server, on page 2. For more information about orchestration in Cisco UCS Director, see the Cisco UCS Director Orchestration Guide.

Orchestration Tasks for Rack Servers

Cisco UCS Director provides some orchestration tasks in the Task Library that you can include in workflows.

Location of Orchestration Tasks

A complete list of the Cisco IMC orchestration tasks is available in the Workflow Designer and the Task Library. The Task Library includes a description of the orchestration tasks. It can be accessed from the following locations in Cisco UCS Director:

- **Policies** > **Orchestration** > **Workflows**
- `http://IP_address/app/cloudmgr/onlinedocs/cloupiaTaskLib.html` where *IP_address* is the IP address of Cisco UCS Director.

In the Workflow Designer, you can access these tasks to add them to a workflow from the **Available Tasks** pane through **Physical Compute Tasks** > **Rack Server Tasks**.

Types of Orchestration Tasks

The Cisco IMC orchestration tasks include tasks to configure and manage the following:

- Power On/Power Off CIMC Server
- Configure Rack Server
- Unconfigure Rack Server
- Select Rack Server

Note These Cisco IMC orchestration tasks are currently not supported on Cisco UCS S3260 servers.

Sample Workflow: Power Cycling a Rack Server

You can create workflows to automate many configuration and management tasks for rack servers. The following sample workflow power cycles a rack-mount server. You can find detailed information about each workflow task in the Task Library.

Workflow Task	Inputs	Outputs
Power On/Off CIMC Server	User input: • **Manage Workflow User Inputs**—Add **CIMC Server Identity** as a user input. • **CIMC Server**—Check the **Map to User Input** check box and choose the label you assigned to **CIMC Server Identity** to enable the user to choose a server. Task input—Choose **Power Off**, **Power On** or **Reset** to perform respective power operation on the selected server.	Server identity, including information about the MAC address, VLAN, and WWPN of the vHBA.

Workflow Task	Inputs	Outputs
Configure Rack Server	User inputs: • **Manage Workflow User Inputs**—Add **CIMC Rack Server Profile Selector** and **CIMC Server Identity** as user input. • Check the **Map to User Input** check box and choose the label you assigned to **Rack Server Profile Selector** to enable the user to choose the rack server profile to be associated with the server. • **Select Rack Server**—Check the **Map to User Input** check box and choose the label you assigned to **CIMC Server Identity** to enable the user to choose a server. Task inputs: • **Policy Type**— Choose the type of policy to be applied to the server from the profile. • **Rack Server Profile**—Choose the rack server profile that includes the policy type that you selected. • **Select Rack Server**— Choose the rack server to which the policy type must be applied. The selected policy type from the profile is applied on the rack server.	Server identity, including information on the server profile identity, MAC address, VLAN and WWPN of the vHBA.
Unconfigure Rack Server	User input: • **Select Rack Server**—Check the **Map to User Input** check box and choose the label you assigned to **Rack Server Identity** to enable the user to choose a server. Task input—None.	Server identity.