Registering Devices With the Cisco Prime NSC

This chapter contains the following sections:

Registering a Cisco VSG

You can register a Cisco VSG with the Cisco PNSC. Registration enables communication between the Cisco VSG and the Cisco PNSC.

Step 1 Copy the nsc-vsgpa.2.1.3i.bin file into the Cisco VSG bootflash:

```
vsg# copy ftp://guest@172.18.217.188/n1kv/nsc-vsgpa.2.1.3i.bin bootflash
```

Step 2 On the command line, enter configuration mode.

```
vsg# configure
```

Step 3 Enter the config-nsc-policy-agent mode.

```
vsg (config)# nsc-policy-agent
```

Step 4 Set the Cisco PNSC registration IP address.

```
vsg (config-nsc-policy-agent)# registration-ip 209.165.200.225
```

Step 5 Specify the shared-secret of Cisco PNSC.

```
vsg (config-nsc-policy-agent)#
shared-secret ********
```

Step 6 Install the policy agent.

```
vsg (config-nsc-policy-agent)#
policy-agent-image bootflash: nsc-vsgpa.2.1.3i.bin
```

Step 7 Exit all modes.

```
vsg (config-nsc-policy-agent)# end
```

Step 8 On the Cisco VSG command line, enter the **show nsc-pa status** command:

```
vsg# show nsc-pa status
If registration was successful, you should see the following message:
"NSC Policy-Agent status is - Installed Successfully. Version 2.1(3i)-vsg"
The Cisco VSG registration is complete.
```

Step 9 Save the change persistently through reboots and restarts by copying the running configuration to the startup configuration:

```
vsg# copy running-config startup-config
Executing this command ensures that the registration becomes part of the basic configuration
```

Registering a Cisco Nexus 1000V VSM

You can register a Cisco Nexus 1000V with the Cisco PNSC. Registration enables communication between the Cisco Nexus 1000V VSM and Cisco PNSC.

Step 1 Copy the vsmcpa.3.2.3a.bin file into the VSM bootflash:

```
vsm# copy ftp://guest@172.18.217.188/n1kv/vsmcpa.3.2.3a.bin bootflash:
```

Step 2 On the command line, enter configuration mode.

```
vsm# configure
```

Step 3 Enter config-nsc-policy-agent mode.

```
vsm(config)# nsc-policy-agent
```

Step 4 Set the Cisco PNSC registration IP address.

```
vsm(config-nsc-policy-agent)# registration-ip 209.165.200.226
```

Step 5 Specify the shared-secret of Cisco PNSC.

```
vsm(config-nsc-policy-agent)# shared-secret ********
```

Step 6 Install the policy agent.

```
vsm(config-nsc-policy-agent)# policy-agent-image bootflash:vsmcpa.3.2.3a.bin
```

Step 7 Exit all modes.

```
vsm(config-nsc-policy-agent)# top
```

Step 8 On the command line, enter the following command:

```
vsm# show nsc-pa status
If registration was successful, you should see the following message:
nsc Policy-Agent status is - Installed Successfully. Version 3.2(3a)-vsm
The Cisco Nexus 1000V VSM registration is complete.
```

Step 9 On the command line, enter the following command:

```
vsm# copy running-config startup-config
Executing this command ensures that the registration becomes part of the basic configuration.
```

What to do next

See the *Cisco Prime Network Services Controller CLI Configuration Guide* for detailed information about configuring the Cisco PNSC using the CLI.

Registering vCenter

Step 1	Log into Cisco PNSC.
Step 2	Choose **Resource Management** > **VM Managers**.
Step 3	In the **Navigation** pane, right-click **VM Managers**.
Step 4	Choose **Export vCenter Extension**.
Step 5	In the dialog box that appears, choose the appropriate extension, and click **Save**.
Step 6	Log into **vSphere**.
Step 7	In your vSphere client, log into **vCenter**.
Step 8	Choose **Plug-ins** > **Manage Plug-ins**.
Step 9	Right-click the empty space and click **New Plug-in**.
Step 10	Browse to the Cisco PNSC vCenter extension file, and then click **Register Plug-in**.
Step 11	Click **Ignore** for any security warning.

You should see a message that reports a successful registration.

Step 12	Log into the Cisco PNSC and choose **Resource Management** > **VM Managers**.
Step 13	In the **Navigation** pane, right-click **VM Managers**.
Step 14	Click **Add VM Manager**.
Step 15	Enter the vCenter name and IP address information and click **OK**.

Note The Successful Addition State field should display the word Enabled, and the Operational State field should display the version information.

vCenter is registered.