



# Registering Devices With the Cisco Prime NSC

This chapter contains the following sections:

- [Registering a Cisco VSG, page 1](#)
- [Registering a Cisco Nexus 1000V VSM, page 2](#)
- [Registering vCenter, page 3](#)

## Registering a Cisco VSG

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

### SUMMARY STEPS

1. Copy the `vnmc-vsgpa.2.1.1b.bin` file into the Cisco VSG bootflash:
2. On the command line, enter configuration mode.
3. Enter the `config-vnm-policy-agent` mode.
4. Set the Cisco Prime NSC registration IP address.
5. Specify the shared-secret of Cisco Prime NSC.
6. Install the policy agent.
7. Exit all modes.
8. On the Cisco VSG command line, enter the `show vnm-pa status` command:
9. Save the change persistently through reboots and restarts by copying the running configuration to the startup configuration:

### DETAILED STEPS

- 
- Step 1** Copy the `vnmc-vsgpa.2.1.1b.bin` file into the Cisco VSG bootflash:  
`vsg# copy ftp://guest@172.18.217.188/n1kv/vnmc-vsgpa.2.1.1b.bin bootflash`
- Step 2** On the command line, enter configuration mode.  
`vsg# configure`

- Step 3** Enter the config-vnm-policy-agent mode.  
vsg (config)# **vnm-policy-agent**
- Step 4** Set the Cisco Prime NSC registration IP address.  
vsg (config-vnm-policy-agent)# **registration-ip 209.165.200.225**
- Step 5** Specify the shared-secret of Cisco Prime NSC.  
vsg (config-vnm-policy-agent)#  
**shared-secret \*\*\*\*\***
- Step 6** Install the policy agent.  
vsg (config-vnm-policy-agent)#  
**policy-agent-image bootflash: vnmc-vsmpa.2.1.1b.bin**
- Step 7** Exit all modes.  
vsg (config-vnm-policy-agent)# **end**
- Step 8** On the Cisco VSG command line, enter the **show vnm-pa status** command:  
vsg# **show vnm-pa status**  
If registration was successful, you should see the following message:  
"VNM Policy-Agent status is - Installed Successfully. Version 2.1(1b)-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 Prime NSC. Registration enables communication between the Cisco Nexus 1000V VSM and Cisco Prime NSC.

- Step 1** Copy the vnmc-vsmpa.2.1.1b.bin file into the VSM bootflash:  
vsm# **copy ftp://guest@172.18.217.188/n1kv/vnmc-vsmpa.2.1.1b.bin bootflash:**
- Step 2** On the command line, enter configuration mode.  
vsm# **configure**
- Step 3** Enter config-vnm-policy-agent mode.  
vsm(config)# **vnm-policy-agent**
- Step 4** Set the Cisco Prime NSC registration IP address.  
vsm(config-vnm-policy-agent)# **registration-ip 209.165.200.226**
- Step 5** Specify the shared-secret of Cisco Prime NSC.  
vsm(config-vnm-policy-agent)# **shared-secret \*\*\*\*\***
- Step 6** Install the policy agent.  
vsm(config-vnm-policy-agent)# **policy-agent-image bootflash:vnmc-vsmpa.2.1.1b.bin**
- Step 7** Exit all modes.  
vsm(config-vnm-policy-agent)# **top**
- Step 8** On the command line, enter the following command:  
vsm# **show vnm-pa status**  
If registration was successful, you should see the following message:

```
VNM Policy-Agent status is - Installed Successfully. Version 2.1(1b)-vsg
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 Prime NSC using the CLI.

## Registering vCenter

---

- Step 1** Log into the Cisco Prime NSC.
  - Step 2** In the Cisco Prime NSC, choose **Administration > 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 Prime NSC 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 Prime NSC and choose **Administration > 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.
-

