



Registering Devices With the Cisco Prime NSC

This chapter contains the following sections:

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

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.

Procedure

- Step 1** Copy the nsc-vsgpa.2.1.3i.bin file into the Cisco VSG bootflash:
- ```
vsg# copy ftp://guest@172.18.217.188/nlkv/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.

### Procedure

**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.

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### 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

### Procedure

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- 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.

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