Deploying Cisco Monitor Manager Embedded

This chapter contains the following sections:

Obtaining the Cisco Monitor Manager Embedded Software

Step 1 In a web browser, navigate to Cisco.com.

Step 2 Under **Support**, click **All Downloads**.

Step 3 In the center pane, click **Cloud and Systems Management**.

Step 4 If prompted, enter your Cisco.com username and password to log in.

Step 5 In the right pane, click **Network Controllers and Applications**, and then click **Cisco Extensible Network Controller (XNC).**

Step 6 Download and extract the **Cisco Monitor Manager Embedded** application bundle.
The application bundle zip file contains the following:

- The Cisco Monitor Manager Embedded package, **xnc1000-ctl-mmemb-k9-1.5.0.ova**
- The Cisco Plug-in for OpenFlow package, **ofa_mmemb-1.1.2-n3000-r2-SPA-k9.ova**

What to Do Next

Install the software on a Cisco Nexus 3000 Series switch.

Installing and Activating the Cisco Cisco Monitor Manager Embedded Software

Step 1 Log in to the Cisco Nexus 3000 or 3100 Series switches.

Step 2 Copy theCisco Plug-in for OpenFlow package from the directory where you downloaded it to the switch.
switch# **copy** *[scp: | ftp: | http:]// download_dir*/**ofa_mmemb-1.1.2-n3000-r2-SPA-k9.ova bootflash: vrf management**

Step 3 Copy the Cisco Monitor Manager Embedded package from the directory where you downloaded it to the switch.
switch# **copy** *[scp: | ftp: | http:]// download_dir*/**xnc1000-ctl-mmemb-k9-1.5.0.ova bootflash: vrf management**

Step 4 Run the show virtual service command to verify the virtual services on the switch.
switch# **show virtual-service list**

Step 5 Install the Cisco Plug-in for OpenFlow package on the switch.
switch# **virtual-service install name ofa_mmemb package bootflash:ofa_mmemb-1.1.2-n3000-r2-SPA-k9.ova**

Step 6 Install the Cisco Monitor Manager Embedded package on the switch.
switch# **virtual-service install name xnc_mmemb package bootflash:xnc1000-ctl-mmemb-k9-1.5.0.ova**

Step 7 Run the show virtual-service list command to monitor the status of the installation.
Note Do not continue until both OVA files have been successfully installed.

Step 8 Enter the global configuration mode on the switch.
switch# **configure terminal**

Step 9 Start the virtual service for the Cisco Plug-in for OpenFlow package.
switch(config)# **virtual-service ofa_mmemb**

Step 10 Activate the Cisco Plug-in for OpenFlow package.
switch(config-virt-serv)# **activate**

Step 11 Return to the global configuration mode.
switch(config-virt-serv)# **exit**

Step 12 Start the virtual service for the Cisco Monitor Manager Embedded package.
switch(config)# **virtual-service xnc_mmemb**

Step 13 Activate the Cisco Monitor Manager Embedded package.
switch(config-virt-serv)# **activate**

Step 14 Run the show virtual-service list command to monitor the status of the activation.

Configuring the Cisco Plug-in for OpenFlow

The Cisco Plug-in for OpenFlow needs to be connected to the Cisco XNC controller locally running on the Cisco Nexus 3000 or 3100 Series switches.

Before You Begin

Install and activate the Cisco Monitor Manager Embedded package and the Cisco Plug-in for OpenFlow package.

Step 1 Enter the Cisco Plug-in for OpenFlow configuration mode on the switch.
switch(config-virt-serv)# **openflow**

Step 2 Choose the switch to which you want to connect.
switch(config-ofa)# **switch** *switch_num*

Caution Set the *switch_num* to **1**. This is the default value. Only expert users should set the *pipeline_num* number to any value other than 1.

Step 3 Choose the pipeline to which you want to connect.
switch(config-ofa-switch)# **pipeline** *pipeline_num*

Caution Set the *pipeline_num* to **201**. This is the default value. Only expert users should set the *pipeline_num* number to any value other than 201.

Step 4 Configure the controller address using vrf management.
switch(config-ofa-switch)# **controller ipv4** *management_interface_address* **port** *port_num* **vrf management security none**

Note
- The controller ipv4 address should match the management interface address.
- By default, the Cisco Plug-in for OpenFlow listens on port 6663.

Step 5 Assign ports to the Cisco Plug-in for OpenFlow.
switch(config-ofa-switch)# **of-port interface** *ethernet_port_num*

Step 6 Exit from the current configuration command mode and return to EXEC mode.
switch(config-ofa-switch)# **end**

Step 7 Verify that the Cisco Plug-in for OpenFlow is connected to the Cisco Monitor Manager Embedded.
switch# **show openflow switch** *switch_num* **controller**

Logging in to the Cisco Monitor Manager Embedded GUI

The default HTTP web link for the Cisco Monitor Manager Embedded GUI is `http://Nexus_Switch_Management_IP:8080/monitor`

Step 1 In your web browser, enter the Cisco Monitor Manager Embedded web link.

Step 2 On the launch page, do the following:

a) Enter your username and password.
The default username and password is admin/admin.

b) Click **Log In**.

What to Do Next

Refer to the *Cisco Monitor Manager Application Configuration Guide* for the procedures you need to configure Cisco Monitor Manager.