

## **Software FEX Mode Configuration**

• Software FEX Mode Configuration, on page 1

## **Software FEX Mode Configuration**

By default, Cisco Nexus switches operate in the switch mode. However, Cisco Nexus 9300-FX3 platform switches also support the FEX mode. This FEX mode allows a switch to operate like a Cisco Nexus 2000 Series Fabric Extender. As a result, the switch will not require any independent software upgrades, configuration backups, or other maintenance tasks.

Make sure that you disassociate FEX and configure FEX on the switch before replacing 48 interface type FEX with 32 interface type FEX. For detailed steps, see Associating a Fabric Extender to a Fabric Interface.

Cisco Nexus switches in software FEX mode support 25G FEX connectivity to the host for a single point of management use cases.

See Platform Support Matrix, to check for the supported switches.

## **TOR/Switch to FEX Conversion**

This section describes how to convert the switch usage from TOR/switch mode to FEX mode.

- Configure the switch in a way that it does not boot from Cisco NX-OS mode.
- Run the **copy running-config startup-config** command before booting the FEX image.
- Run the **boot fex** command. This command sets the FEX as the boot variable.
- Reload the switch.



Note

Do not run the **copy running-config startup-config** command after you run the **boot fex** command.

A sample ToR to FEX conversion is provided below.

```
switch(config) # write erase
switch(config) # no boot nxos
switch(config) # copy running-config startup-config
switch(config) # boot fex
switch(config) # reload
```

## **FEX to TOR/Switch Conversion**

This section describes how to convert the switch usage from FEX to switch/TOR mode.

- Run the conversion command, boot nx-os bootflash:/<nxos image> from the FEX terminal.
- You must upload a Cisco NX-OS image when you use this conversion command.
- This conversion command verifies the Cisco NX-OS image and sets the boot variable. Hence the FEX boots with the specified Cisco NX-OS image on the reload.



Note

FEX does not have or save any configuration. Hence you must save the running configuration as the startup configuration.

A sample FEX to ToR conversion is provided below.

```
fex-1(config)# boot nxos bootflash:/<nxos image>
fex-1(config)# reload
```

You can use the following commands to configure management IP and copy the NX-OS image to FEX.

Commands	Uses
dir	Lists all files in bootlfash.
delete file-name	Removes file in bootlfash.
interface mgmt 0	Configures management IP to FEX. The management
ip address ip address network mask	IP must be connected physically.
ip route network_gateway	
show interface mgmt 0 brief	Verifies the configured management IP.
copy scp:[//[username@]server][/path] bootflash:[filename]	Copies the Cisco NX-OS image file to FEX for converting it to ToR mode.