



Upgrade FXOS on the Firepower 4100/9300

Use these procedures to upgrade FXOS for a Firepower 4100/9300 chassis without any configured logical devices.

- [Upgrade FXOS on a Firepower 4100/9300 Chassis Using Firepower Chassis Manager, on page 1](#)
- [Upgrade FXOS on a Firepower 4100/9300 Chassis Using the CLI, on page 3](#)

Upgrade FXOS on a Firepower 4100/9300 Chassis Using Firepower Chassis Manager

This section describes how to use Firepower Chassis Manager to upgrade the FXOS platform bundle for a Firepower 4100/9300 chassis that has not yet been configured with any logical devices.



Note If you need to upgrade the FXOS platform bundle, the application software, or both for a Firepower 4100/9300 chassis that is configured with FTD or ASA logical devices, see [Upgrade the Firepower 4100/9300 with FTD Logical Devices](#) or [Upgrade the Firepower 4100/9300 with ASA Logical Devices](#).

Before you begin

Before beginning your upgrade, make sure that you have already done the following:

- Plan your upgrade.
- Download the FXOS platform bundle software package to which you are upgrading.
- Back up your FXOS configuration.



Note The upgrade process typically takes between 20 and 30 minutes.

Procedure

Step 1 In Firepower Chassis Manager, choose **System > Updates**.

The Available Updates page shows a list of the Firepower eXtensible Operating System platform bundle images and application images that are available on the chassis.

Step 2 Upload the new platform bundle image:

- a) Click **Upload Image** to open the Upload Image dialog box.
- b) Click **Choose File** to navigate to and select the image that you want to upload.
- c) Click **Upload**.
The selected image is uploaded to the Firepower 4100/9300 chassis.
- d) For certain software images you will be presented with an end-user license agreement after uploading the image. Follow the system prompts to accept the end-user license agreement.

Step 3 After the new platform bundle image has successfully uploaded, click **Upgrade** for the FXOS platform bundle to which you want to upgrade.

The system will first verify the software package that you want to install. It will inform you of any incompatibility between currently installed applications and the specified FXOS platform software package. It will also warn you that any existing sessions will be terminated and that the system will need to be rebooted as part of the upgrade.

Step 4 Click **Yes** to confirm that you want to proceed with installation, or click **No** to cancel the installation.

The Firepower eXtensible Operating System unpacks the bundle and upgrades/reloads the components. The upgrade process can take up to 30 minutes to complete.

Step 5 You can monitor the upgrade process using the FXOS CLI:

- a) Enter **scope system**.
- b) Enter **show firmware monitor**.
- c) Wait for all components (FPRM, Fabric Interconnect, and Chassis) to show Upgrade-Status: Ready.

Note After the FPRM component is upgraded, the system will reboot and then continue upgrading the other components.

Example:

```
FP9300-A# scope system
FP9300-A /system # show firmware monitor
FPRM:
  Package-Vers: 2.3(1.58)
  Upgrade-Status: Ready

Fabric Interconnect A:
  Package-Vers: 2.3(1.58)
  Upgrade-Status: Ready

Chassis 1:
  Server 1:
    Package-Vers: 2.3(1.58)
    Upgrade-Status: Ready
  Server 2:
    Package-Vers: 2.3(1.58)
    Upgrade-Status: Ready
```

Step 6 After all components have successfully upgraded, enter the following commands to verify the status of the security modules/security engine and any installed applications:

- a) Enter **top**.

- b) Enter **scope ssa**.
- c) Enter **show slot**.
- d) Verify that the Admin State is `Ok` and the Oper State is `Online` for the security engine on a Firepower 4100 series appliance or for any security modules installed on a Firepower 9300 appliance.
- e) Enter **show app-instance**.
- f) Verify that the Oper State is `Online` for any logical devices installed on the chassis.

Upgrade FXOS on a Firepower 4100/9300 Chassis Using the CLI

This section describes how to use the FXOS CLI to upgrade the FXOS platform bundle for a Firepower 4100/9300 chassis that has not yet been configured with any logical devices.



Note If you need to upgrade the FXOS platform bundle, the application software, or both for a Firepower 4100/9300 chassis that is configured with FTD or ASA logical devices, see [Upgrade the Firepower 4100/9300 with FTD Logical Devices](#) or [Upgrade the Firepower 4100/9300 with ASA Logical Devices](#).

Before you begin

Before beginning your upgrade, make sure that you have already done the following:

- Plan your upgrade.
- Download the FXOS platform bundle software package to which you are upgrading.
- Back up your FXOS configuration.
- Collect the following information that you will need to download the software image to the Firepower 4100/9300 chassis:
 - IP address and authentication credentials for the server from which you are copying the image.
 - Fully qualified name of the image file.



Note The upgrade process typically takes between 20 and 30 minutes.

Procedure

- Step 1** Connect to the FXOS CLI.
- Step 2** Download the new platform bundle image to the Firepower 4100/9300 chassis:
 - a) Enter firmware mode:
Firepower-chassis-a # **scope firmware**
 - b) Download the FXOS platform bundle software image:

```
Firepower-chassis-a /firmware # download image URL
```

Specify the URL for the file being imported using one of the following syntax:

- **ftp://username@hostname/path/image_name**
- **scp://username@hostname/path/image_name**
- **sftp://username@hostname/path/image_name**
- **tftp://hostname:port-num/path/image_name**

c) To monitor the download process:

```
Firepower-chassis-a /firmware # scope download-task image_name
```

```
Firepower-chassis-a /firmware/download-task # show detail
```

Example:

The following example copies an image using the SCP protocol:

```
Firepower-chassis-a # scope firmware
Firepower-chassis-a /firmware # download image
scp://user@192.168.1.1/images/fxos-k9.2.3.1.58.SPA
Firepower-chassis-a /firmware # scope download-task fxos-k9.2.3.1.58.SPA
Firepower-chassis-a /firmware/download-task # show detail
Download task:
  File Name: fxos-k9.2.3.1.58.SPA
  Protocol: scp
  Server: 192.168.1.1
  Userid:
  Path:
  Downloaded Image Size (KB): 853688
  State: Downloading
  Current Task: downloading image fxos-k9.2.3.1.58.SPA from
192.168.1.1 (FSM-STAGE:sam:dme:FirmwareDownloaderDownload:Local)
```

Step 3 If necessary, return to firmware mode:

```
Firepower-chassis-a /firmware/download-task # up
```

Step 4 Enter auto-install mode:

```
Firepower-chassis-a /firmware # scope auto-install
```

Step 5 Install the FXOS platform bundle:

```
Firepower-chassis-a /firmware/auto-install # install platform platform-vers version_number
```

version_number is the version number of the FXOS platform bundle you are installing--for example, 2.3(1.58).

Step 6 The system will first verify the software package that you want to install. It will inform you of any incompatibility between currently installed applications and the specified FXOS platform software package. It will also warn you that any existing sessions will be terminated and that the system will need to be rebooted as part of the upgrade.

Enter **yes** to confirm that you want to proceed with verification.

Step 7 Enter **yes** to confirm that you want to proceed with installation, or enter **no** to cancel the installation.

The Firepower eXtensible Operating System unpacks the bundle and upgrades/reloads the components.

Step 8 To monitor the upgrade process:

- a) Enter **scope system**.
- b) Enter **show firmware monitor**.
- c) Wait for all components (FPRM, Fabric Interconnect, and Chassis) to show Upgrade-Status : Ready.

Note After the FPRM component is upgraded, the system will reboot and then continue upgrading the other components.

Example:

```
FP9300-A# scope system
FP9300-A /system # show firmware monitor
FPRM:
  Package-Vers: 2.3(1.58)
  Upgrade-Status: Ready

Fabric Interconnect A:
  Package-Vers: 2.3(1.58)
  Upgrade-Status: Ready

Chassis 1:
  Server 1:
    Package-Vers: 2.3(1.58)
    Upgrade-Status: Ready
  Server 2:
    Package-Vers: 2.3(1.58)
    Upgrade-Status: Ready

FP9300-A /system #
```

Step 9 After all components have successfully upgraded, enter the following commands to verify the status of the security modules/security engine and any installed applications:

- a) Enter **top**.
 - b) Enter **scope ssa**.
 - c) Enter **show slot**.
 - d) Verify that the Admin State is `Ok` and the Oper State is `Online` for the security engine on a Firepower 4100 series appliance or for any security modules installed on a Firepower 9300 appliance.
 - e) Enter **show app-instance**.
 - f) Verify that the Oper State is `Online` for any logical devices installed on the chassis.
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