

Introduction

This document will demonstrate how to reimage a Firepower 1010 firewall. Parts of this document may also apply to other modern Firepower firewall models.

Prerequisites

The following are required to follow this guide.

- Firepower 1010 firewall
- Console cable
- USB drive or TFTP server
- A copy of the target firmware with the .SPA file extension

Before You Begin

Starting from a clean slate is a must. This guide will walk through formatting the storage devices on the firewall then how to get a new image on the device, booted, and installed.

There are two main storage devices on this firewall. There is a base eMMC flash chip that stores the firmware and OS image used to boot the firewall. Then there is an M.2 SSD that will be used to store configuration data, logs, and unpacked firmware files. It is important to note that the firmware is first initially copied to the eMMC flash, the system will do the rest.

After the reimaging process is complete and the firewall first boots there is a wait time of about 30 to 60 minutes while the firewall completes its initial boot process. This includes finishing unpacking the firmware files and starting all the application processes for the firewall itself.

Reimaging Process

Step 1. Enter ROMMON.

- I. Connect a console cable to the console port on the firewall.
- II. Power up the device and when prompted press the **ESC** key to interrupt the boot process and enter ROMMON mode.

```
Use BREAK or ESC to interrupt boot.  
Use SPACE to begin boot immediately.  
Boot interrupted.
```

```
rommon 1 >
```

Step 2. Issue the **factory-reset** command to reset the device to factory defaults. This will maintain the installed image on the disk.

```
rommon 1 > factory-reset
Warning: All configuration will be permanently lost with this operation
and application will be initialized to default configuration.
This operation cannot be undone after booting the application image.

Are you sure you would like to continue ? yes/no [no]: yes
Please type 'ERASE' to confirm the operation or any other value to cancel: ERASE

Performing factory reset...
Located .boot_string
Image size 60 inode num 15, bks cnt 1 blk size 8*512

Rommon will continue to boot disk0:installables/switch/fxos-k8-fp1k-1fbff.2.14.1.167.SPA
Are you sure you would like to continue ? yes/no [no]: yes
```

Step 3. Insert the USB drive and boot to the new image.

- I. Type **boot disk1:/cisco-ftd-filename.SPA** to boot to a USB image.

```
rommon 1 > boot disk1:/cisco-ftd-fp1k.7.4.2-172.SPA
Located 'cisco-ftd-fp1k.7.4.2-172.SPA' @ cluster 2380.
will try boot bundle !! file size = 1079407504
```

Step 4. Once the system boots, login with the default credentials (admin/Admin123) it will ask you to change the password. Then continue to the next step.

Step 5. Format the appliance.

- I. Type **connect local-mgmt** to move to the management console.
- II. Issue the **format everything** command to delete any remaining configuration, boot images, logs, etc. from the firewall.
- III. Type **yes** to confirm the procedure.

```
firepower-1010-failed# connect local-mgmt
firepower-1010-failed(local-mgmt)# format everything
All configuration and bootable images will be lost.
Do you still want to format? (yes/no):yes
```

Step 6. Once the system comes up boot via the USB drive once more.

- I. Type **boot disk1:/cisco-ftd-filename.SPA** to boot to a USB image.

```
rommon 1 > boot disk1:/cisco-ftd-fp1k.7.4.2-172.SPA
Located 'cisco-ftd-fp1k.7.4.2-172.SPA' @ cluster 2380.
will try boot bundle !! file size = 1079407504
```

Step 7. Download the Threat Defense installation package.

- I. Navigate to the firmware scope with the command **scope firmware**.
- II. Download the installation package using the **download image usbA:package_name** command.

```
firepower-1010# scope firmware
firepower-1010 /firmware # download image usbA:/cisco-ftd-fp1k.7.4.2-172.SPA
Please use the command 'show download-task' or 'show download-task detail' to check
download progress.
```

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Step 8. Finalize the reimage:

- I. Verify that the new package is on the package list using the **show package** command.

```
firepower-1010 /firmware # show package
Name                                     Package-Vers
-----
cisco-ftd-fp1k.7.4.2-172.SPA           7.4.2-172
```

- II. Move to the install scope with the **scope auto-install** command.
- III. Proceed with the install of the threat defense software with the **install security-pack version version force** command.
- IV. Two confirmation prompts are going to appear on the console. Both require confirmation, type **yes** to proceed.

```
firepower-1010 /firmware # scope auto-install
firepower-1010 /firmware/auto-install # install security-pack version 7.4.2-172 force

The system is currently installed with security software package not set, which has:
- The platform version: not set
If you proceed with the upgrade 7.4.2-172, it will do the following:
- upgrade to the new platform version 2.14.1.167
- install with CSP ftd version 7.4.2.172
During the upgrade, the system will be reboot

Do you want to proceed ? (yes/no):yes

This operation upgrades firmware and software on Security Platform Components
Here is the checklist of things that are recommended before starting Auto-Install
(1) Review current critical/major faults
(2) Initiate a configuration backup

Do you want to proceed? (yes/no):yes

Triggered the install of software package version 7.4.2-172
Force option: true
Install started. This will take several minutes.
For monitoring the upgrade progress, please enter 'show' or 'show detail' command.
```

Step 9. Validate the upgrade process.

- I. Issue the **show detail** command to verify the status of the upgrade.
- II. This process may take some time. After which the reimaging process is complete.

```
firepower-1010 /firmware/auto-install # show detail

Firmware Auto-Install:
Package-Vers: 7.4.2-172
Oper State: Scheduled
Installation Time: 2024-12-15T19:16:16.281
Upgrade State: Ready
Upgrade Status:
Validation Software Pack Status:
Firmware Upgrade Status: Ok
Firmware Upgrade Message:
Current Task: Waiting for Deploy to begin(FSM-STAGE:sam:dme:FirmwareSystemDe
ploy:waitForDeploy)
firepower-1010 /firmware/auto-install #
```