

# Monitor FTD or FMC Upgrade Status via CLI

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## Introduction

This document describes how to monitor the progress of a Firepower Threat Defense (FTD) or Firewall Management Center (FMC) device upgrade via CLI.

## Are There Ways to Monitor the Progress of an Ongoing Service Upgrade Outside of the FMC GUI?

Yes, the ability to monitor the progress of an ongoing upgrade is available via the CLI of the device. When an upgrade is pushed to an FMC managed device (or the FMC itself), a directory associated with the upgrade is created on the device. Included in this directory is a status.log file which can be monitored for progress throughout the upgrade. These instructions walk through how to access and monitor the status of an upgrade via CLI.

## Prerequisites

### Requirements

Cisco recommends that you have knowledge of these topics:

- Firepower Threat Defense (FTD)
- Firewall Management Center (FMC)

### Components Used

- FMC 4600 version 7.2.5
- FTD 2110 version 7.0.4
- Note: Instructions applicable to all FTD/FMC versions.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

## Instructions

### Push Upgrade from the FMC GUI

The upgrade needs to be pushed from the FMC GUI prior to the upgrade directory becoming available via the device CLI.

### Enter Root Prompt of the Device

Whether connected to the device via SSH or console, from the prompt, type **expert** followed by **sudo su** and the password to enter root:

```
> Expert
admin@FPR2110-CALO-TEST:~$ sudo su
Password:
root@FPR2110-CALO-TEST:/home/admin#
```

*CLI Prompts*

### Navigate to the Directory Associated with Upgrade

FTD: The directory is `/ngfw/var/log/sf/Cisco_FTD_SSP_FP2K_Upgrade-7.2.5`

```
root@FPR2110-CALO-TEST:/home/admin# cd /ngfw/var/log/sf/Cisco_FTD_SSP_FP2K_Upgrade-7.2.5
```

*FTD Directory Example*

FMC: The directory is `/var/log/sf/Cisco_Secure_FW_Mgmt_Center_Patch-7.2.5.2`

```
root@firepower:/Volume/home/admin# cd /var/log/sf/Cisco_Secure_FW_Mgmt_Center_Patch-7.2.5.2
```

*FMC Directory Example*

Note: The final part of the directory path depends on different factors including software, platform, and version.

### Once in the Directory, Tail the Existing `status.log` File

Command: **tail -f status.log**

FTD:

```
root@FPR2110-CAL0-TEST:/ngfw/var/log/sf/Cisco_FTD_SSP_FP2K_Upgrade-7.2.5# tail -f status.log
ui: Upgrade in progress: ( 4% done.25 mins to reboot). Preparing to upgrade... (200_pre/009_check_snort_preproc.sh)
ui: Upgrade in progress: ( 4% done.25 mins to reboot). Preparing to upgrade... (200_pre/011_check_self.sh)
ui: Upgrade in progress: ( 4% done.25 mins to reboot). Preparing to upgrade... (200_pre/015_verify_rpm.sh)
ui: Upgrade in progress: ( 4% done.25 mins to reboot). Preparing to upgrade... (200_pre/100_check_dashboards.pl)
ui: Upgrade in progress: ( 4% done.25 mins to reboot). Preparing to upgrade... (200_pre/100_get_snort_from_dc.pl)
ui: Upgrade in progress: ( 4% done.25 mins to reboot). Preparing to upgrade... (200_pre/110_setup_upgrade_ui.sh)
ui: Upgrade in progress: ( 4% done.25 mins to reboot). Preparing to upgrade... (200_pre/120_generate_auth_for_upgrade_ui.pl)
ui: Upgrade in progress: ( 8% done.24 mins to reboot). Preparing to upgrade... (200_pre/152_save_etc_sf.sh)
ui: Upgrade in progress: ( 8% done.24 mins to reboot). Preparing to upgrade... (200_pre/199_before_maintenance_mode.sh)
ui: Upgrade in progress: ( 8% done.24 mins to reboot). Preparing to upgrade... (200_pre/200_enable_maintenance_mode.pl)
ui: Upgrade in progress: ( 8% done.24 mins to reboot). Preparing to upgrade... (200_pre/202_disable_syncd.sh)
```

*FTD status.log*

FMC:

```
root@firepower:/var/log/sf/Cisco_Secure_FW_Mgmt_Center_Patch-7.2.5.2# tail -f status.log
ui:[17%] Running script 200_pre/100_check_dashboards.pl...
ui:[18%] Running script 200_pre/101_check_uncommitted_data.pl...
ui:[19%] Running script 200_pre/110_setup_upgrade_ui.sh...
ui:[19%] Running script 200_pre/120_generate_auth_for_upgrade_ui.pl...
ui:[20%] Running script 200_pre/152_save_etc_sf.sh...
ui:[20%] Running script 200_pre/199_before_maintenance_mode.sh...
ui:[21%] Running script 200_pre/200_enable_maintenance_mode.pl...
ui:[22%] Running script 200_pre/202_disable_syncd.sh...
ui:[22%] Running script 200_pre/400_restrict_rpc.sh...
ui:[23%] Running script 200_pre/500_stop_system.sh...
```

*FMC status.log*



**Note:** The status.log file automatically updates as the upgrade progresses.

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## Additional Information

FMC version 7.2+ now includes the ability to monitor the upgrade progress of managed devices directly from the FMC GUI. Once an update is pushed, navigate to the FMC GUI notification tab and locate the task associated with the upgrade. Clicking the view details option on the task opens a monitoring window specific to the upgrade.

Deploy 20+ admin

Deployments Upgrades Health **Tasks** Show Notifications

10 total 0 waiting 1 running 0 retrying 9 success 0 failures Filter

**Remote Install**  
 Apply Cisco FTD SSP FP2K Upgrade 7.2.5-208 to 10.201.204.17 16m 10s  
 10.201.204.17 : Retrying  
 FPR2110-CALO-TEST: [View details.](#)

**Remote Readiness Check**  
 Checking Cisco FTD SSP FP2K Upgrade 7.2.5-208 on [ 10.201.204.17 ] 2m 32s X  
 Success. OK to upgrade to 7.2.5-208 version.

*FMC GUI Upgrade Task*

The monitoring window includes useful information for the upgrade in progress. Information includes upgrade details, upgrade stages, progress percentages, and log details from the status.log file.

## Upgrade in Progress



10.201.204.17

10.201.204.17

Cisco Firepower 2110 Threat Defense (Version: 7.0.4-55)

**Version:** 7.2.5-208 | **Size:** 986.98 MB | **Build Date:** Jul 21, 2023 7:31 AM UTC

**Initiated By:** admin | **Initiated At:** Jul 17, 2024 12:22 AM +03



46% Completed (14 minutes left)

**Upgrade In Progress...**

The system will reboot after FXOS platform upgrade completes.

● Upgrade will automatically cancel on failure and roll back to the previous version.

### Log Details



#### Upgrade logs:

```
Tue Jul 16 21:10:31 UTC 2024 0% Running script 000_start/000_00_run_cli_kick_start.sh... 2
Tue Jul 16 21:11:18 UTC 2024 0% Running script 000_start/000_00_run_troubleshoot.sh... 26
Tue Jul 16 21:12:35 UTC 2024 0% Running script 000_start/000_0_start_upgrade_status_api_st
Tue Jul 16 21:12:37 UTC 2024 0% Running script 000_start/000_5_verify_monetdb.sh... 26 min
Tue Jul 16 21:12:38 UTC 2024 0% Running script 000_start/000_check_platform_support.sh...
Tue Jul 16 21:12:39 UTC 2024 0% Running script 000_start/000_check_update.sh... 26 mins re
Tue Jul 16 21:12:39 UTC 2024 0% Running script 000_start/000_db_schema_check.sh... 26 mins
Tue Jul 16 21:12:40 UTC 2024 0% Running script 000_start/100_start_messages.sh... 26 mins
Tue Jul 16 21:12:40 UTC 2024 0% Running script 000_start/101_run_pruning.pl... 26 mins rem
```

Close