

Upgrade of Secure Firewall Threat Defense Using Firewall Device Manager

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Introduction

This document describes an example of a Cisco Secure Firewall Threat Defense (FTD) upgrade using the Firewall Device Manager (FDM).

Prerequisites

Requirements

Cisco recommends knowledge of these topics:

- There are no specific requirements for this guide

Components Used

The information in this document is based on these software and hardware versions:

- Cisco Firepower 4125 running FTD version 7.2.3

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.

Background Information

Specific requirements for this document include:

- Connectivity to the Management IP of the FTD
- The FTD upgrade package (**.REL.tar**) previously downloaded from the Software Cisco Portal

This upgrade procedure is supported on appliances:

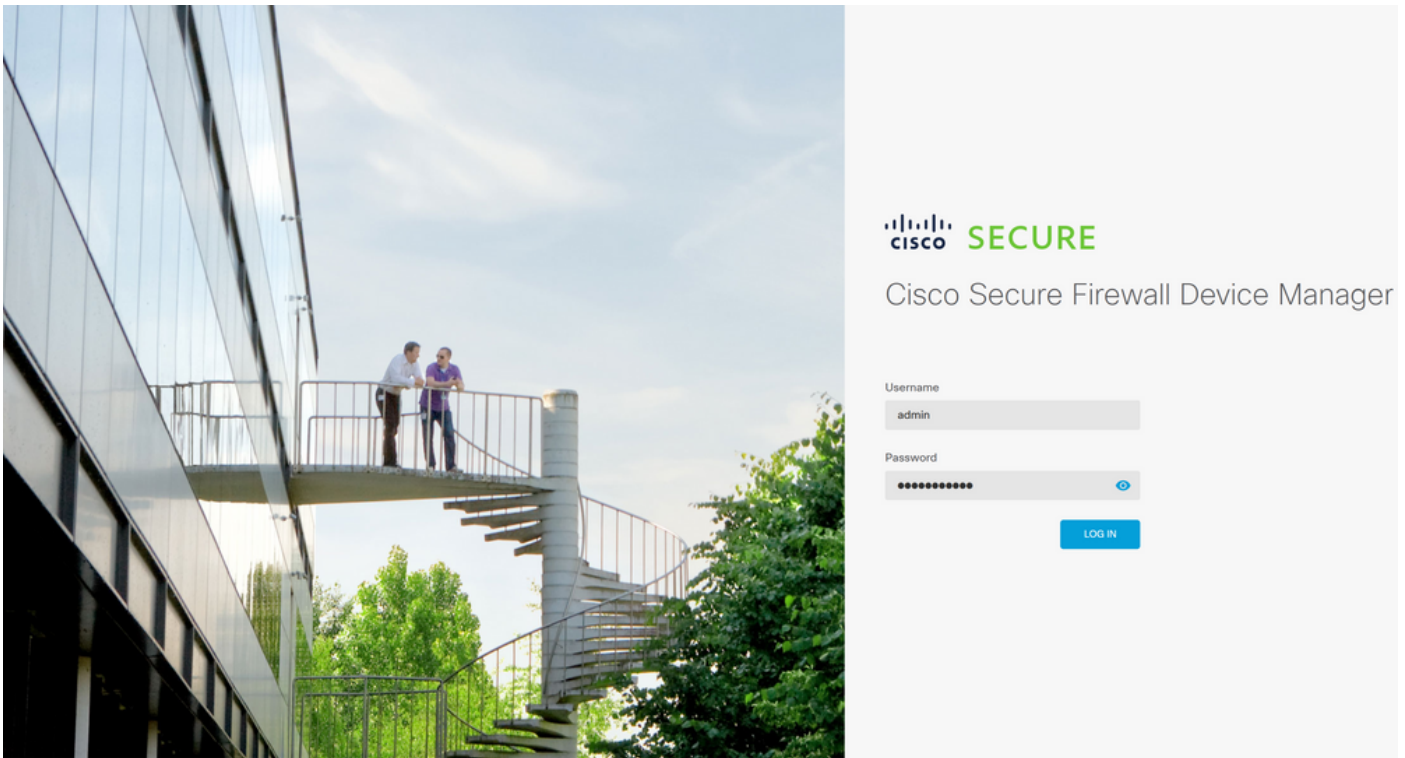
- Any Cisco Firepower model running FTD software configured with local management.

Before You Begin

1. Create and download a backup of the FTD Configurations.
2. Validate the [upgrade path](#) for the target version.
3. Download the upgrade package from the [Cisco Software Central](#).
4. Do not rename the upgrade file. The system considers renamed files to be invalid.
5. Schedule a maintenance window for the upgrade procedure because traffic is affected.

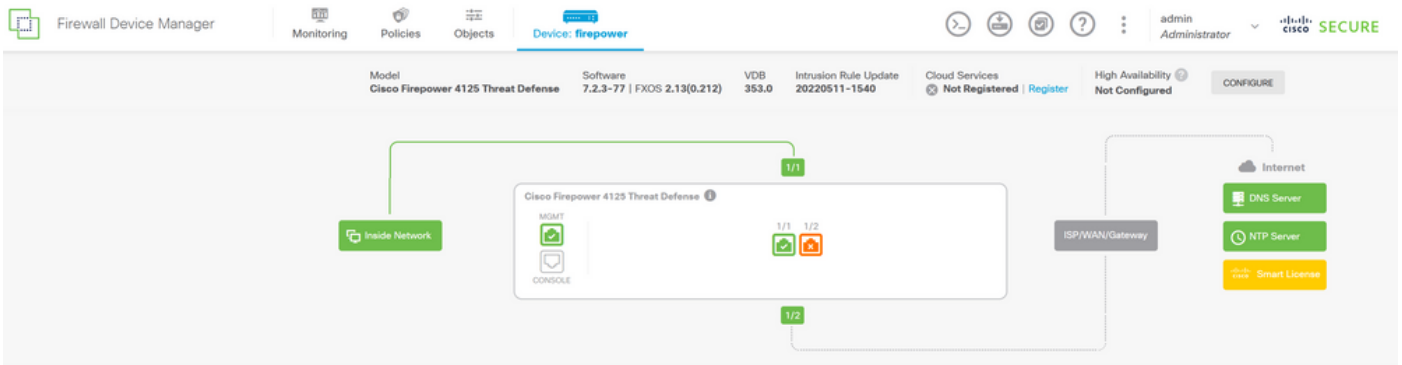
Configure

Step 1. Log into the Firewall Device Manager using the Management IP of the FTD:



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Step 2. Click on **View Configuration** on the Firewall Device Manager Dashboard:



| | | | |
|---|---|---|---|
| Interfaces Connected Enabled 3 of 3 View All Interfaces | Routing There are no static routes yet View Configuration | Updates Geolocation, Rule, VDB, System Upgrade, Security Intelligence Feeds View Configuration | System Settings Management Access Logging Settings DHCP Server / Relay DDNS Service DNS Server Management Interface Hostname Time Services See more |
| Smart License Evaluation expires in 90 days View Configuration | Backup and Restore View Configuration | Troubleshoot No files created yet REQUEST FILE TO BE CREATED | |
| Site-to-Site VPN There are no connections yet View Configuration | Remote Access VPN Requires RA VPN license No connections 1 Group Policy Configure | Advanced Configuration Includes: FlexConfig, Smart CLI View Configuration | Device Administration Audit Events, Deployment History, Download Configuration View Configuration |

Step 3. Click on the **Browse** button under the System Upgrade section to upload the installation package:

⚠ Caution: Once you upload the upgrade package the **BROWSE** is going to display an animation while the file is still getting uploaded. Do not refresh the web page until the upload finishes.

Example of upload progress page:

Firewall Device Manager

Monitoring Policies Objects Device: firepower

admin Administrator

Device Summary

Updates

Geolocation 2022-05-11-103 Latest Update on 18 Jul 2023

VDB 353.0 Latest Update on 18 Jul 2023

Security Intelligence Feeds

System Upgrade

Current version threat defense: 7.2.3-77 Current version FXOS: 2.13(0.212)

Important

Make sure the threat defense version is compatible with the FXOS version. [Learn more](#)

There are no software upgrades available on the system. Upload an upgrade file to install.

Upload an upgrade file to install.

Cisco_FTD_SSP_Upgrade-7.2.4-165.ah.REL.tar

Intrusion Rule 20220511-1540 Latest Update on 18 Jul 2023

Snort

Inspection Engine: 3.1.21.100-7 Downgrade to 2.0

Snort is the main inspection engine in Secure Firewall Threat Defense. It is used for intrusion and file policy analysis, SSL decryption, and layer 7 inspection. [See more](#)

Step 4. Once the upload finishes a pop-up window appears asking for confirmation:

Confirmation

The uploaded file will be staged for later installation. If you want to run the upgrade immediately, select the option below.

Run Upgrade immediately on upload

CANCEL OK

Device Summary

Updates

Geolocation 2022-05-11-103 Latest Update on 18 Jul 2023

VDB 353.0 Latest Update on 18 Jul 2023

Security Intelligence Feeds

System Upgrade

Current version threat defense: 7.2.3-77 Current version FXOS: 2.13(0.212)

Important

Make sure the threat defense version is compatible with the FXOS version. [Learn more](#)

File Cisco_FTD_SSP_Upgrade-7.2.4-165.s... 19 Jul 2023 11:49 AM [Replace file](#)

Upgrade to 7.2.4-165

Readiness Check Not Performed Yet [Run Upgrade Readiness Check](#)

UPGRADE NOW Reboot required

Intrusion Rule 20220511-1540 Latest Update on 18 Jul 2023

Snort

Inspection Engine: 3.1.21.100-7 Downgrade to 2.0

Snort is the main inspection engine in Secure Firewall Threat Defense. It is used for intrusion and file policy analysis, SSL decryption, and layer 7 inspection. [See more](#)

Note: You can check the **Run Upgrade immediately on upload** option in case you would like to directly proceed with upgrade, however note this is going to skip the **Readiness Check** which can provide insights about conflicts on the upgrade preventing a failure.

Step 5. Click on **Run Upgrade Readiness Check** to perform a pre-validation on the upgrade in order to prevent an upgrade failure:

Firewall Device Manager

Monitoring Policies Objects **Device: firepower**

admin Administrator

Device Summary

Updates

Geolocation 2022-05-11-103
Latest Update on 18 Jul 2023

VDB 353.0
Latest Update on 18 Jul 2023

Security Intelligence Feeds

Intrusion Rule 20220511-1540
Latest Update on 18 Jul 2023

System Upgrade
Current version threat defense: 7.2.3-77 Current version FXOS: 2.13(0.212)

Important
Make sure the threat defense version is compatible with the FXOS version.
[Learn more](#)

File: Cisco_FTD_SSP_Upgrade-7.2.4-165.s...
19 Jul 2023 11:49 AM [Replace file](#)

Upgrade to: 7.2.4-165

Readiness Check: **Not Performed Yet** [Run Upgrade Readiness Check](#)

UPGRADE NOW Reboot required

Note: You can validate that the Readiness Check finished successfully from the Task List.

Example of a successful Readiness Check:

Firewall Device Manager

Monitoring Policies Objects **Device: firepower**

admin Administrator

Device Summary

Updates

Geolocation 2022-05-11-103
Latest Update on 18 Jul 2023

System Upgrade
Current version threat defense: 7.2.3-77 Current version FXOS: 2.13(0.212)

Important
Make sure the threat defense version is compatible with the FXOS version.
[Learn more](#)

File: Cisco_FTD_SSP_Upgrade-7.2.4-165.s...
19 Jul 2023 11:49 AM [Replace file](#)

Upgrade to: 7.2.4-165

Readiness Check: **Precheck Success** [Run Upgrade Readiness Check](#)

UPGRADE NOW Reboot required

Task List

1 total 0 running 1 completed 0 failures [Delete all finished tasks](#)

| Name | Start Time | End Time | Status | Actions |
|-------------------|----------------------|----------------------|--|---------|
| Upgrade Readiness | 19 Jul 2023 11:52 AM | 19 Jul 2023 11:54 AM | ✓ Upgrade Readiness Check Completed Successfully | |

Step 6. Click on the **UPGRADE NOW** button to proceed with the software upgrade:

Firewall Device Manager

Monitoring Policies Objects Device: firepower

admin Administrator

SECURE

Device Summary

Updates

Geolocation 2022-05-11-103
Latest Update on 18 Jul 2023

Configure
Set recurring updates

UPDATE FROM CLOUD

VDB 353.0
Latest Update on 18 Jul 2023

Configure
Set recurring updates

UPDATE FROM CLOUD

Security Intelligence Feeds

Configure
Set recurring updates

UPDATE FROM CLOUD

System Upgrade
Current version threat defense: 7.2.3-77 Current version FXOS: 2.13(0.212)

Important
Make sure the threat defense version is compatible with the FXOS version.
[Learn more](#)

File
Cisco_FTD_SSP_Upgrade-7.2.4-165.s...
19 Jul 2023 11:49 AM [Replace file](#)

Upgrade to
7.2.4-165

Readiness Check
Precheck Success 19 Jul 2023 11:54 AM [Run Upgrade Readiness Check](#)

UPGRADE NOW **Reboot required**

Intrusion Rule 20220511-1540
Latest Update on 18 Jul 2023

Configure
Set recurring updates

UPDATE FROM CLOUD

Snort
Inspection Engine: 3.1.21.100-7 [Downgrade to 2.0](#)
Snort is the main inspection engine in Secure Firewall Threat Defense. It is used for intrusion and file policy analysis, SSL decryption, and layer 7 inspection.
[See more](#)

Step 7. On the pop-up window select **CONTINUE** to proceed with the upgrade:

Firewall Device Manager

Monitoring Policies Objects Device: firepower

admin Administrator

SECURE

Device Summary

Updates

Geolocation 2022-05-11-103
Latest Update on 18 Jul 2023

Configure
Set recurring updates

UPDATE FROM CLOUD

VDB 353.0
Latest Update on 18 Jul 2023

Configure
Set recurring updates

UPDATE FROM CLOUD

Security Intelligence Feeds

Configure
Set recurring updates

UPDATE FROM CLOUD

System Upgrade
Current version threat defense: 7.2.3-77 Current version FXOS: 2.13(0.212)

Important
Make sure the threat defense version is compatible with the FXOS version.
[Learn more](#)

File
Cisco_FTD_SSP_Upgrade-7.2.4-165.s...
19 Jul 2023 11:49 AM [Replace file](#)

Upgrade to
7.2.4-165

Readiness Check
Precheck Success 19 Jul 2023 11:54 AM [Run Upgrade Readiness Check](#)

UPGRADE NOW **Reboot required**

Intrusion Rule 20220511-1540
Latest Update on 18 Jul 2023

Configure
Set recurring updates

UPDATE FROM CLOUD

Snort
Inspection Engine: 3.1.21.100-7 [Downgrade to 2.0](#)
Snort is the main inspection engine in Secure Firewall Threat Defense. It is used for intrusion and file policy analysis, SSL decryption, and layer 7 inspection.
[See more](#)

Confirm System Upgrade

Before starting the upgrade:

1. Do not start a system restore at the same time as a system upgrade.
2. Do not reboot the system during the upgrade. The system automatically reboots at the appropriate time during upgrade if a reboot is necessary.
3. **Do not power off the device** during the upgrade. Interrupting the upgrade can leave the system in an unusable state.

You will be logged out of the system when the upgrade begins.
After the installation completes, the device will be rebooted.

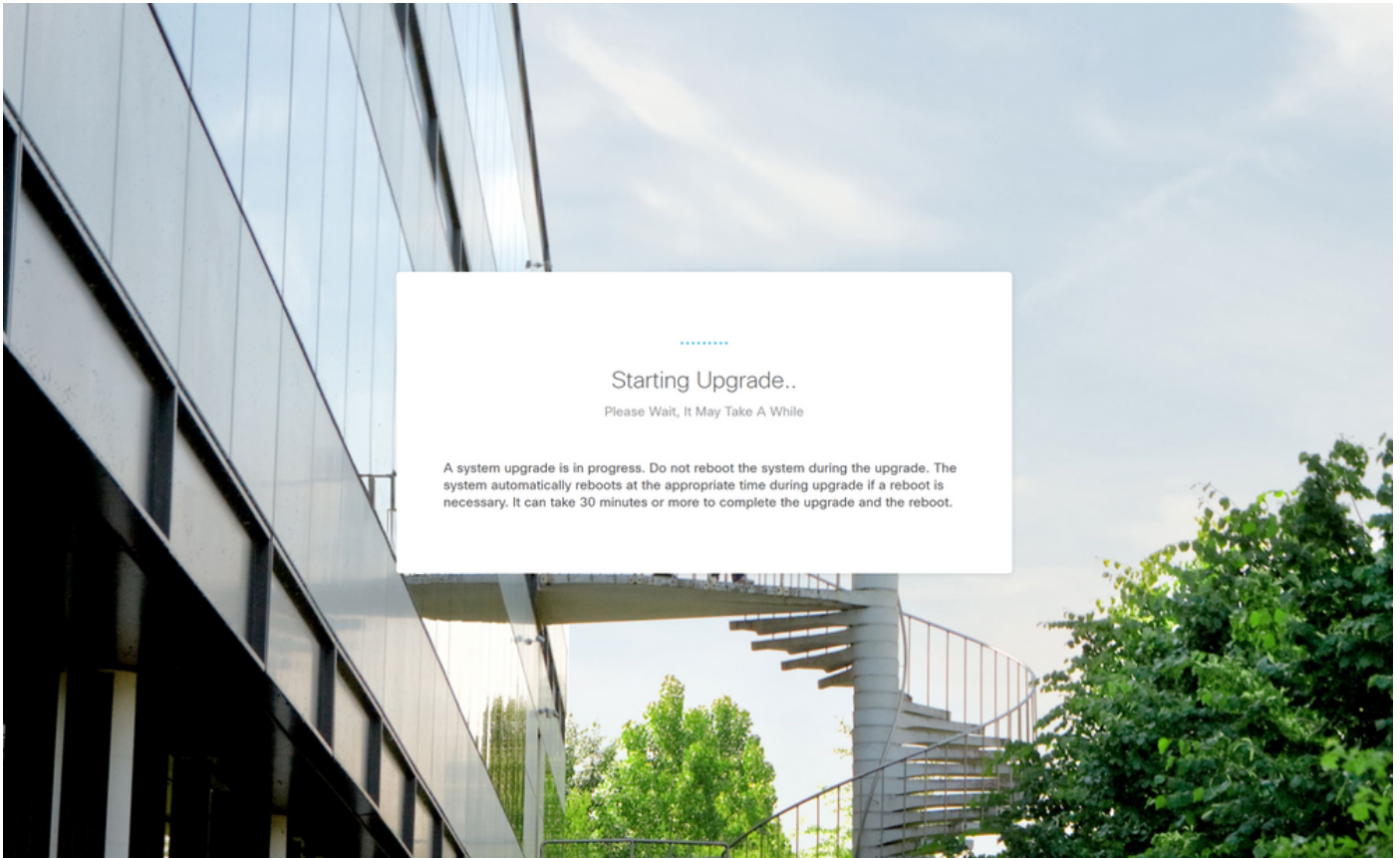
UPGRADE OPTIONS

Automatically cancel on upgrade failure and roll back to the previous version

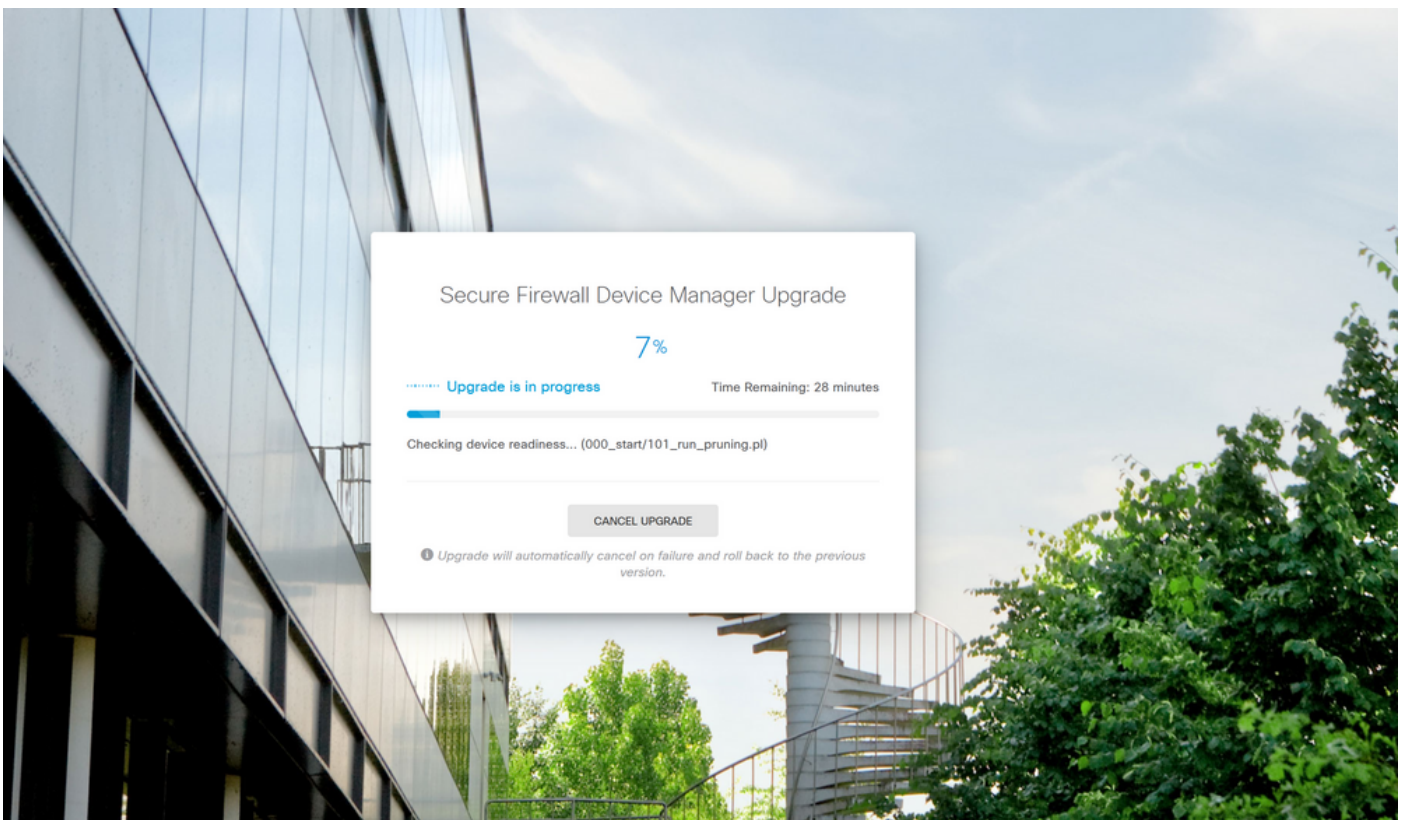
CANCEL CONTINUE

Note: The rollback option is enabled by default, it is suggested you keep this option in order to revert any upgrade configuration in case of an issue on the upgrade.

Step 8. You are redirected to a page where the upgrade progress is going to be displayed:

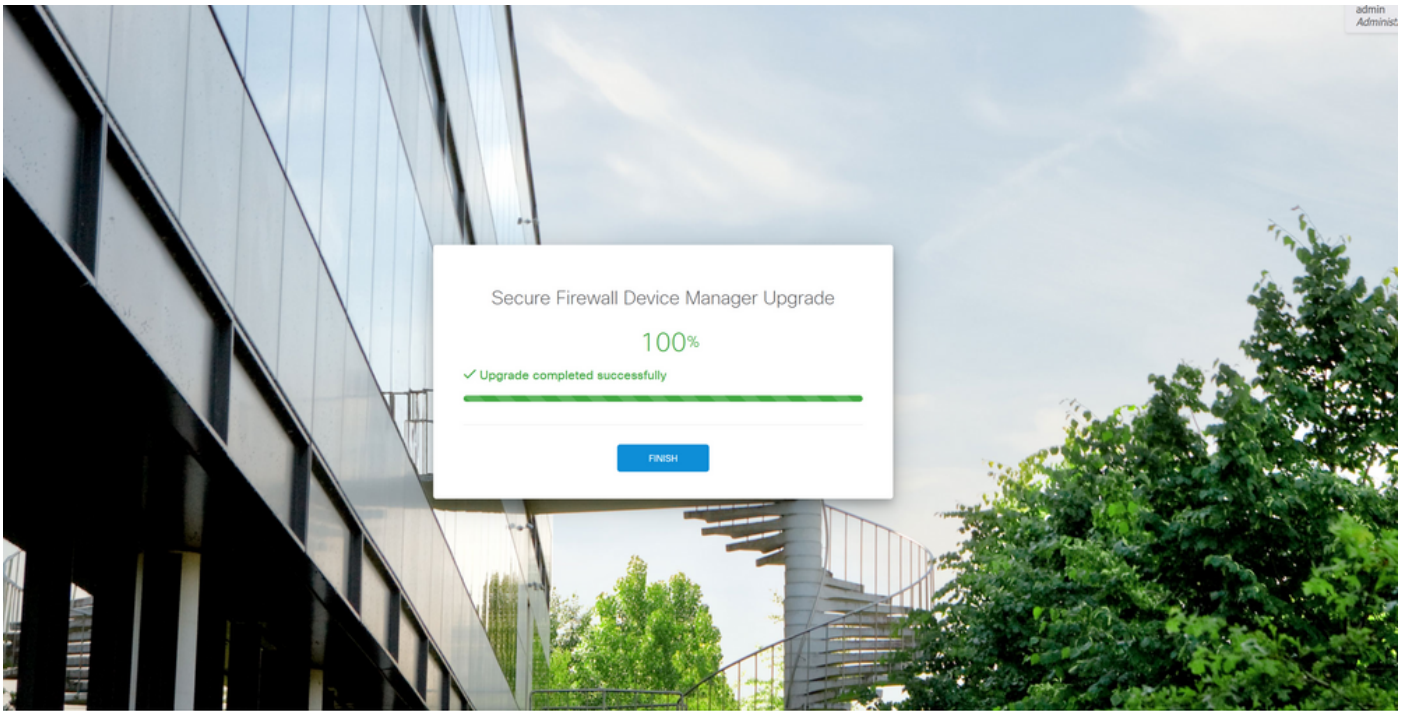


Example of the progress page:



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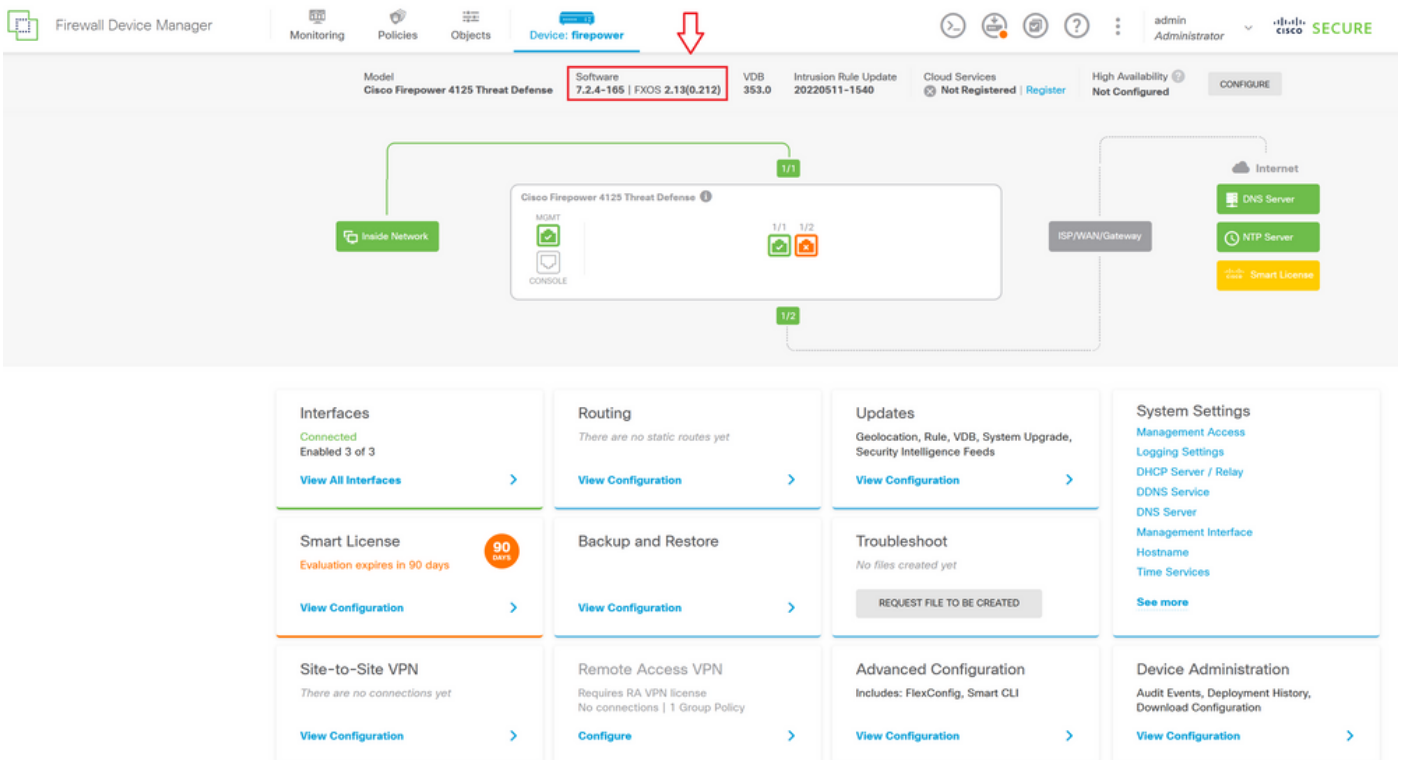
Step 9. Click on the **FINISH** button after the upgrade completes successfully to return to the login screen:



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Validation

Once the upgrade finishes you can log into the Firepower Device Manager to validate the current version, this is displayed on the Overview dashboard:



To perform an upgrade validation via CLI you can use these steps:

- I. Create an SSH Session using the Management IP of the FTD.

II. Use the **show version** command to validate the current version on your chassis.

Example of the suggested procedure:

```
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Cisco Firepower Extensible Operating System (FX-OS) v2.12.0 (build 499)
Cisco Firepower 4125 Threat Defense v7.2.4 (build 165)

> show version
-----[ firepower ]-----
Model          : Cisco Firepower 4125 Threat Defense (76) Version 7.2.4 (Build 165)
UUID           : e55a326e-25cd-11ee-b261-8d0ffe6dde59
LSP version    : lsp-rel-20220511-1540
VDB version    : 353
-----
> █
```