

# Upgrade FTD HA via CLI beheerd door FMC

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## Inleiding

Dit document beschrijft een gedetailleerde procedure voor het upgraden van Cisco Firepower Threat Defence (FTD)-apparaten via de Command Line Interface (CLI).

## Voorwaarden

### Vereisten

Cisco raadt kennis van de volgende onderwerpen aan:

- Cisco Secure Firewall Management Center (FMC)
- Cisco Secure Firewall Threat Defence (FTD)

### Gebruikte componenten

De informatie in dit document is gebaseerd op de volgende software- en hardware-versies:

- Cisco Secure Firewall Management Center v7.2.8
- Cisco Firepower Threat Defence voor VMWare v7.2.2

De informatie in dit document is gebaseerd op de apparaten in een specifieke laboratoriumomgeving. Alle apparaten die in dit document worden beschreven, hadden een opgeschoonde (standaard)configuratie. Als uw netwerk live is, moet u zorgen dat u de potentiële impact van elke opdracht begrijpt.

# Achtergrondinformatie

Specifieke eisen voor dit document zijn onder meer:

- Cisco Secure Firewall Threat Defense, versie 7.2 of hoger
- Cisco Secure Firewall Management Center met versie 7.2 of hoger

## Configureren

Voor het upgraden van een paar FTD-apparaten via CLI moet het upgrade-pakketbestand op het apparaat aanwezig zijn. Het is essentieel dat er geen implementaties in behandeling zijn als voorwaarde voor een succesvolle upgrade via CLI.

## Vorbereiden op upgrade

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Waarschuwing: controleer de upgradevolgorde, Stand-by/Actief om verkeersstoringen te

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voorkomen.

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1. Begin met het apparaat dat als Standby (Standby) is geconfigureerd.
2. Open de CLI in expert-modus door expert in te voeren, gevolgd door sudo su in de clish-modus. Bevestig het wachtwoord van het apparaat om de rechten op te heffen en de expertmodus in te voeren.

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Cisco Firepower Extensible Operating System (FX-OS) v2.12.0 (build 1104)  
Cisco Firepower Threat Defense for VMware v7.2.2 (build 54)

```
> expert
admin@firepower:~$ sudo su
```

We trust you have received the usual lecture from the local System Administrator. It usually boils down to these three things:

- #1) Respect the privacy of others.
- #2) Think before you type.
- #3) With great power comes great responsibility.

```
Password:
root@firepower:/home/admin#
root@firepower:/home/admin# cd
root@firepower:~#
root@firepower:~#
```

## Controleer failover-status

Controleer de failover-status om er zeker van te zijn dat de stappen zijn uitgevoerd op het secundaire FTD, dat kan worden weergegeven als secundair en stand-by gereed.

```
firepower#
firepower# sh failover state
```

	State	Last Failure Reason	Date/Time
This host -	Secondary		
	Standby Ready	None	
Other host -	Primary		
	Active	None	

```
====Configuration State====
  Sync Done - STANDBY
====Communication State====
  Mac set
```

firepower#  
firepower#

## Uploaden van het upgrade-pakket

Upload het upgradepakket naar beide apparaten via het VCC door te navigeren naar Settings > Updates > Product Updates > Upload local software update pakket. Kies het eerder gedownloadde pakket van [software.cisco.com](https://software.cisco.com) en selecteer Upload.

Nadat u het Firepower-pakket hebt geüpload op de FMC, gaat u verder met de upgrade-knop.

The screenshot shows the 'Product Updates' section in the Firewall Management Center. It includes a 'System Overview' with status for Management Center and Threat Defense. Below is a table of 'Available Upgrade Packages' with columns for Upgrade, Release Date, Required Minimum Version, Availability, and Actions. The '7.2.7-500' package is highlighted, and its 'Upgrade' button is circled in red.

Upgrade	Release Date	Required Minimum Version	Availability	Actions
> 7.2.8-25	2024-05-31	6.6.0	Downloaded	...
▼ 7.2.7-500	2024-04-27	6.6.0	Downloaded	Upgrade
Firepower Threat Defense for ASA/ISA/FTDv				
> 7.2.2-54	2022-11-22	6.6.0	Downloaded	...
> 6.6.5-81	2021-07-28	6.2.3	Downloaded	...

## Upgradeknop

Selecteer in de upgrade-wizard de FTD HA-apparaten, selecteer vervolgens de apparaten en klik op Toevoegen aan selectie.

The screenshot shows the 'Threat Defense Upgrade' wizard. It is currently on the 'Upgrade' step. The 'Upgrade to' dropdown is set to '7.2.7-500'. The 'Device Selection' pane shows '1 cluster/HA pair' as a candidate. The 'Device Details' pane shows a table of devices with checkboxes for selection. A red arrow points to the 'Add to Selection' button.

Device	Model	Details
<input checked="" type="checkbox"/> FTD_HA High Availability		
<input checked="" type="checkbox"/> FTD Primary 192.168.192.13 (Primary)	FTDv for VMware	Version 7.2.2
<input checked="" type="checkbox"/> FTD Secondary 192.168.192.14 (Secondary)	FTDv for VMware	Version 7.2.2

## Aan selectie toevoegen

Vervolgens kunt u het upgradepakket op de apparaten kopiëren. Er verschijnt een bericht om door te gaan met upgradepakketten.

Threat Defense Upgrade

Upgrade to: 7.2.7-500 Manage Upgrade Packages

1 cluster/HA pair selected to upgrade to Version 7.2.7-500. Use Device Management to select more devices.

1 cluster/HA pair still needs an upgrade package. [Copy Upgrade Package](#)

Device Details

Device	Model	Details
FTD_HA		One or more units are missing the upgrade package.
FTD Secondary 192.168... (Secondary) Version 7.2.2	FTDv for VMware	Unit is missing upgrade package.
FTD Primary 192.1... (Primary - Active) Version 7.2.2	FTDv for VMware	Unit is missing upgrade package.

Knop Upgradepakket kopiëren

Op de Notification taak, kunt u de baan vinden die de dossiers kopieert aan apparaat Wanneer de taak wordt geëindigd, wordt het voltooid en succesvol.

Deployments Upgrades Health Tasks Show Notifications

14 total 0 waiting 1 running 0 retrying 13 success 0 failures Filter

Copy Files

Copy files to devices 6s

Requested : 2.  
Copied (before check) : 0.  
Failed : 0.

Bestanden kopiëren naar apparaten

U kunt controleren of het pakket is geüpload naar de apparaten op dit pad:

```
root@firepower:/ngfw/var/sf/updates#  
root@firepower:/ngfw/var/sf/updates# ls -l  
total 2181772  
-rw-r--r-- 1 root root 1110405120 Jul 18 01:08 Cisco_FTD_Upgrade-7.2.2-54.sh.REL.tar  
-rw-r--r-- 1 root root 815 Jul 18 01:23 Cisco_FTD_Upgrade-7.2.2-54.sh.REL.tar.METADATA  
-rw-r--r-- 1 root root 1123706880 Jul 18 02:36 Cisco_FTD_Upgrade-7.2.7-500.sh.REL.tar  
-rw-r--r-- 1 root root 854 Jul 18 02:37 Cisco_FTD_Upgrade-7.2.7-500.sh.REL.tar.METADATA  
root@firepower:/ngfw/var/sf/updates#
```

## Gereedheidscontrole

Voer de bereidheidscontrole uit vanaf de CLI op het secundaire apparaat met behulp van de opdracht:

```
root@firepower:/ngfw/var/sf/updates# install_update.pl --detach --readiness-check /ngfw/var/sf/updates/
```

Hierna volgt een voorbeeld:

```
root@firepower:/ngfw/var/sf/updates# install_update.pl --detach --readiness-check /ngfw/var/sf/updates/
ARGV[0] = --detach
ARGV[1] = --readiness-check
ARGV[2] = /ngfw/var/sf/updates/Cisco_FTD_Upgrade-7.2.7-500.sh.REL.tar
bundle_filepath: /ngfw/var/sf/updates/Cisco_FTD_Upgrade-7.2.7-500.sh.REL.tar
install_update.pl begins. bundle_filepath: /var/sf/updates/Cisco_FTD_Upgrade-7.2.7-500.sh.REL.tar
[Readiness-Info]filename : /var/sf/updates/Cisco_FTD_Upgrade-7.2.7-500.sh.REL.tar at /usr/local/sf/lib/
This was not run through the SF::System APIs at /usr/local/sf/lib/perl/5.24.4/SF/System/Wrappers.pm lin
Makeself GetUpdate Info params FILEPATH : /var/tmp/upgrade-patch/Cisco_FTD_Upgrade_Readiness-7.2.7-500.
FILEPATH directory name /var/tmp/upgrade-patch at /usr/local/sf/lib/perl/5.24.4/SF/Update/Makeself.pm 1
Inside GetInfo FILEPATH :/var/tmp/upgrade-patch/Cisco_FTD_Upgrade_Readiness-7.2.7-500.sh at /usr/local/
root@firepower:/ngfw/var/sf/updates#
```

Controleer het proces voor gereedheidscontrole op dit pad:

```
root@firepower:/ngfw/var/log/sf/Cisco_FTD_Upgrade-7.2.7/upgrade_readiness
```

```
root@firepower:/ngfw/var/log/sf/Cisco_FTD_Upgrade-7.2.7/upgrade_readiness# cat upgrade_readiness_status
TIMESTAMP:Thu Jul 18 02:43:05 UTC 2024 PERCENT: 0% MESSAGE:Running script 000_start/000_00_run_cli_kic
TIMESTAMP:Thu Jul 18 02:43:05 UTC 2024 PERCENT: 5% MESSAGE:Running script 000_start/000_check_platform
TIMESTAMP:Thu Jul 18 02:43:06 UTC 2024 PERCENT:10% MESSAGE:Running script 000_start/100_start_messages
TIMESTAMP:Thu Jul 18 02:43:06 UTC 2024 PERCENT:14% MESSAGE:Running script 000_start/101_run_pruning.pl
TIMESTAMP:Thu Jul 18 02:43:41 UTC 2024 PERCENT:19% MESSAGE:Running script 000_start/105_check_model_nu
TIMESTAMP:Thu Jul 18 02:43:42 UTC 2024 PERCENT:24% MESSAGE:Running script 000_start/106_check_HA_state
TIMESTAMP:Thu Jul 18 02:43:42 UTC 2024 PERCENT:29% MESSAGE:Running script 000_start/107_version_check.
TIMESTAMP:Thu Jul 18 02:43:43 UTC 2024 PERCENT:33% MESSAGE:Running script 000_start/108_clean_user_sta
TIMESTAMP:Thu Jul 18 02:43:43 UTC 2024 PERCENT:38% MESSAGE:Running script 000_start/110_DB_integrity_c
TIMESTAMP:Thu Jul 18 02:43:47 UTC 2024 PERCENT:43% MESSAGE:Running script 000_start/113_EO_integrity_c
TIMESTAMP:Thu Jul 18 02:43:50 UTC 2024 PERCENT:48% MESSAGE:Running script 000_start/250_check_system_f
TIMESTAMP:Thu Jul 18 02:43:50 UTC 2024 PERCENT:52% MESSAGE:Running script 000_start/410_check_disk_spa
TIMESTAMP:Thu Jul 18 02:43:55 UTC 2024 PERCENT:57% MESSAGE:Running script 200_pre/001_check_reg.pl...
TIMESTAMP:Thu Jul 18 02:43:55 UTC 2024 PERCENT:62% MESSAGE:Running script 200_pre/002_check_mounts.sh.
TIMESTAMP:Thu Jul 18 02:43:56 UTC 2024 PERCENT:67% MESSAGE:Running script 200_pre/004_check_deploy_pac
TIMESTAMP:Thu Jul 18 02:43:56 UTC 2024 PERCENT:71% MESSAGE:Running script 200_pre/005_check_manager.pl
TIMESTAMP:Thu Jul 18 02:43:56 UTC 2024 PERCENT:76% MESSAGE:Running script 200_pre/006_check_snort.sh..
TIMESTAMP:Thu Jul 18 02:43:57 UTC 2024 PERCENT:81% MESSAGE:Running script 200_pre/007_check_sru_instal
TIMESTAMP:Thu Jul 18 02:43:57 UTC 2024 PERCENT:86% MESSAGE:Running script 200_pre/009_check_snort_prep
TIMESTAMP:Thu Jul 18 02:43:58 UTC 2024 PERCENT:90% MESSAGE:Running script 200_pre/011_check_self.sh...
TIMESTAMP:Thu Jul 18 02:43:58 UTC 2024 PERCENT:95% MESSAGE:Running script 200_pre/015_verify_rpm.sh...
TIMESTAMP:Thu Jul 18 02:44:00 UTC 2024 PERCENT:100% MESSAGE:Readiness Check completed successfully.
```

```
root@firepower:/ngfw/var/log/sf/Cisco_FTD_Upgrade-7.2.7/upgrade_readiness#
```

Als de gereedheidscontrole mislukt, neemt u contact op met Cisco TAC.

## Upgradeinstallatie

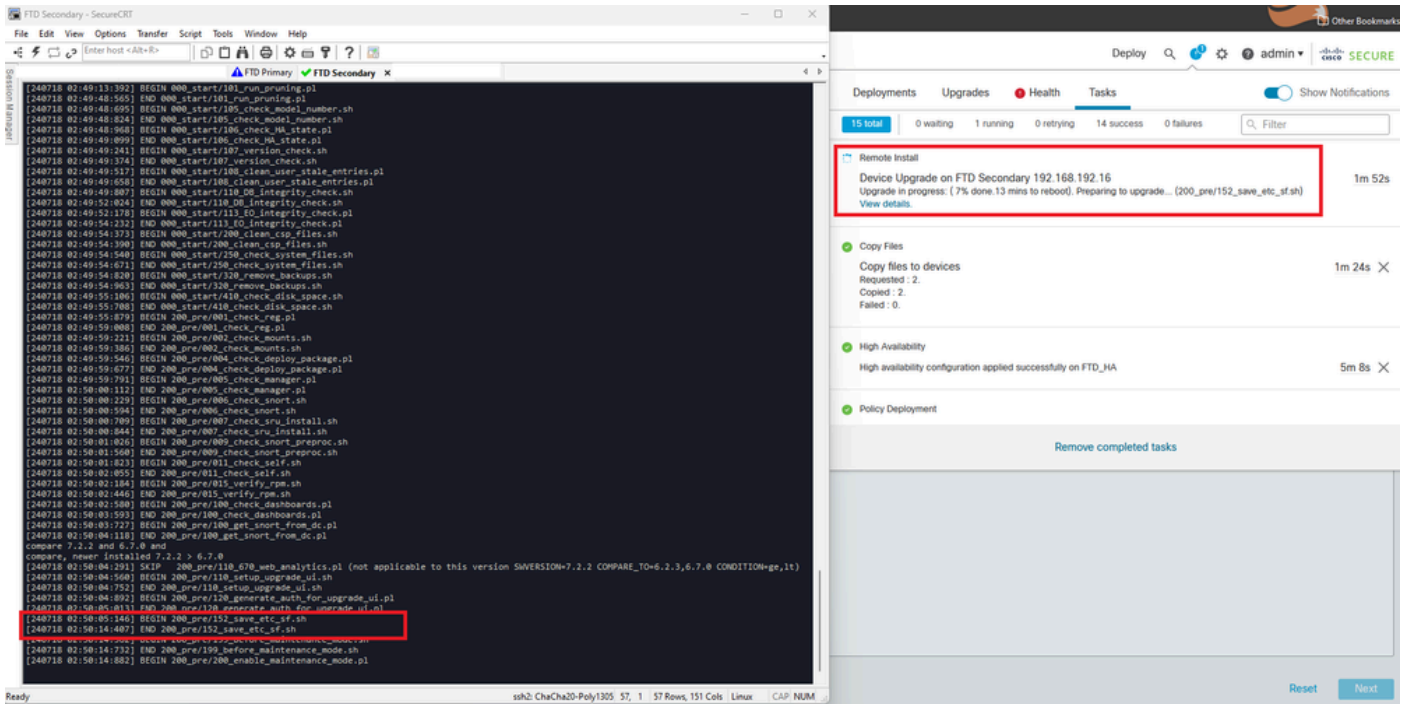
Ga verder met de upgrade-installatie op de secundaire FTD. Navigeer naar de map met het upgradebestand en voer de installatieopdracht uit:

```
root@firepower:/ngfw/var/sf/updates# install_update.pl --detach <FTD_Upgrade_Package.sh.REL.tar>
```

Zodra de upgrade is uitgevoerd, wordt er een output zoals het volgende voorbeeld uitgevoerd:

```
root@firepower:/ngfw/var/sf/updates# install_update.pl --detach Cisco_FTD_Upgrade-7.2.7-500.sh.REL.tar
ARGV[0] = Cisco_FTD_Upgrade-7.2.7-500.sh.REL.tar
bundle_filepath: Cisco_FTD_Upgrade-7.2.7-500.sh.REL.tar
updated absolute bundle_filepath: /ngfw/var/sf/updates/Cisco_FTD_Upgrade-7.2.7-500.sh.REL.tar
install_update.pl begins. bundle_filepath: /var/sf/updates/Cisco_FTD_Upgrade-7.2.7-500.sh.REL.tar
Makeself GetUpdate Info params FILEPATH : /var/tmp/upgrade-patch/Cisco_FTD_Upgrade-7.2.7-500.sh at /usr/
FILEPATH directory name /var/tmp/upgrade-patch at /usr/local/sf/lib/perl/5.24.4/SF/Update/Makeself.pm 1
Inside GetInfo FILEPATH :/var/tmp/upgrade-patch/Cisco_FTD_Upgrade-7.2.7-500.sh at /usr/local/sf/lib/per
Use of uninitialized value in string at /usr/local/sf/lib/perl/5.24.4/SF/Update/StatusProc.pm line 196.
Use of uninitialized value in string at /usr/local/sf/lib/perl/5.24.4/SF/Update/StatusProc.pm line 196.
Use of uninitialized value in string at /usr/local/sf/lib/perl/5.24.4/SF/Update/StatusProc.pm line 196.
Use of uninitialized value $in_container in string eq at /usr/local/sf/lib/perl/5.24.4/SF/Update/Status
Verifying archive integrity... All good.
Uncompressing Cisco FTD Upgrade / Sat Apr 27 04:09:29 UTC 2024.....
Entering is_fmc_managed
Device is FMC Managed
[240718 02:48:13:868] Found original ftd upgrade file /var/sf/updates/Cisco_FTD_Upgrade-7.2.7-500.sh.RE
[240718 02:48:16:990] MAIN_UPGRADE_SCRIPT_START
[240718 02:48:17:006] #####
[240718 02:48:17:007] # UPGRADE STARTING
[240718 02:48:17:008] #####
compare 7.2.2 and 6.2.3 and
compare, newer installed 7.2.2 > 6.2.3
Entering create_upgrade_status_links...
Create upgrade_status.json and upgrade_status.log link in /ngfw/var/sf/sync/updates_status_logs
Running [ln -f /ngfw/var/log/sf/Cisco_FTD_Upgrade-7.2.7/upgrade_status.json /ngfw/var/sf/sync/updates_s
Link to JSON upgrade status file /ngfw/var/log/sf/Cisco_FTD_Upgrade-7.2.7/upgrade_status.json created i
Running [ln -f /ngfw/var/log/sf/Cisco_FTD_Upgrade-7.2.7/upgrade_status.log /ngfw/var/sf/sync/updates_st
Link to log upgrade status file /ngfw/var/log/sf/Cisco_FTD_Upgrade-7.2.7/upgrade_status.log created in
[240718 02:48:17:229] BEGIN 000_start/000_00_run_cli_kick_start.sh
[240718 02:48:18:421] END 000_start/000_00_run_cli_kick_start.sh
[240718 02:48:18:525] BEGIN 000_start/000_00_run_troubleshoot.sh
```

Op het VCC is een taak voor het uitvoeren van de upgrade op het secundaire apparaat:



Taken die op het VCC worden uitgevoerd

## Controleer de upgradestatus via dit pad:

```
root@firepower:/ngfw/var/log/sf/Cisco_FTD_Upgrade-X.X.X# tail -f upgrade_status.log
```

Hier is een voorbeeld van de uitvoer:

```
root@firepower:/ngfw/var/log/sf/Cisco_FTD_Upgrade-7.2.7# tail -f upgrade_status.log
TIMESTAMP:Thu Jul 18 02:50:25 UTC 2024 PERCENT: 7% MESSAGE:Running script 200_pre/202_disable_syncd.sh
TIMESTAMP:Thu Jul 18 02:50:26 UTC 2024 PERCENT: 7% MESSAGE:Running script 200_pre/400_restrict_rpc.sh
TIMESTAMP:Thu Jul 18 02:50:26 UTC 2024 PERCENT: 7% MESSAGE:Running script 200_pre/500_stop_system.sh..
TIMESTAMP:Thu Jul 18 02:50:53 UTC 2024 PERCENT:14% MESSAGE:Running script 200_pre/501_recovery.sh... T
TIMESTAMP:Thu Jul 18 02:50:53 UTC 2024 PERCENT:14% MESSAGE:Running script 200_pre/505_revert_prep.sh..
TIMESTAMP:Thu Jul 18 02:51:46 UTC 2024 PERCENT:14% MESSAGE:Running script 200_pre/999_enable_sync.sh..
TIMESTAMP:Thu Jul 18 02:51:46 UTC 2024 PERCENT:14% MESSAGE:Running script 300_os/001_verify_bundle.sh.
TIMESTAMP:Thu Jul 18 02:51:47 UTC 2024 PERCENT:14% MESSAGE:Running script 300_os/002_set_auto_neg.pl..
TIMESTAMP:Thu Jul 18 02:51:47 UTC 2024 PERCENT:14% MESSAGE:Running script 300_os/060_fix_fstab.sh... T
TIMESTAMP:Thu Jul 18 02:51:47 UTC 2024 PERCENT:14% MESSAGE:Running script 300_os/100_install_Fire_Linu
```

Wanneer de upgrade op het secundaire apparaat is voltooid, ziet u dit bericht:

```
240718 13:40:58:872] Attempting to remove upgrade lock
[240718 13:40:58:873] Success, removed upgrade lock
Upgrade lock /ngfw/tmp/upgrade.lock removed successfully.
[240718 13:40:58:882]
[240718 13:40:58:883] #####
[240718 13:40:58:885] # UPGRADE COMPLETE #
```



```
[240718 13:40:58:887] #####
Entering create_upgrade_status_links...
Create upgrade_status.json and upgrade_status.log link in /ngfw/Volume/root/ngfw/var/sf/sync/updates_st
Running [ln -f /ngfw/Volume/root/ngfw/var/log/sf/Cisco_FTD_Upgrade-7.2.7/upgrade_status.json /ngfw/Volum
Link to JSON upgrade status file /ngfw/Volume/root/ngfw/var/log/sf/Cisco_FTD_Upgrade-7.2.7/upgrade_stat
Running [ln -f /ngfw/Volume/root/ngfw/var/log/sf/Cisco_FTD_Upgrade-7.2.7/upgrade_status.log /ngfw/Volum
Link to log upgrade status file /ngfw/Volume/root/ngfw/var/log/sf/Cisco_FTD_Upgrade-7.2.7/upgrade_statu
Process 10677 exited.I am going away.
RC: 0
Update package reports success: almost finished...
Scheduling a reboot to occur in 5 seconds...
Process 12153 exited.I am going away.
root@firepower:/ngfw/var/sf/updates#
Broadcast message from root@firepower (Thu Jul 18 13:41:05 2024):

The system is going down for reboot NOW!
```

Nadat het upgrade van het Standby-apparaat is voltooid, wordt het apparaat opnieuw opgestart. Zodra de apparaten omhoog komen, controleer de failoverstatus om te verzekeren alles zoals aanvankelijk gevormd blijft.

Op de actieve FTD vindt u:

```
firepower# show failover state
```

	State	Last Failure Reason	Date/Time
This host -	Primary Active	None	
Other host -	Secondary Standby Ready	Comm Failure	13:24:46 UTC Jul 18 2024

```
====Configuration State====
    Sync Done
====Communication State====
    Mac set

firepower#
```

Op Standby FTD, vindt u dit:

```
firepower#
firepower# sh failover state
```

	State	Last Failure Reason	Date/Time
This host -	Secondary Standby Ready	None	
Other host -	Primary Active	None	

```
====Configuration State====
    Sync Skipped - STANDBY
====Communication State====
```

Mac set

firepower#

Er zal een boodschap komen waaruit blijkt dat de versies niet hetzelfde zijn.

firepower#

```
*****WARNING****WARNING****WARNING*****  
    Mate version 9.18(4)201 is not identical with ours 9.18(2)200  
*****WARNING****WARNING****WARNING*****
```

Voer de failover handmatig uit via CLI met behulp van de opdracht failover actief op standby-apparaat. Nu wordt het Standby-apparaat Actief.

---



Waarschuwing: op dit punt wordt het verkeer onderbroken als er een failover optreedt.

---

```

firepower#
firepower# failover active

        Switching to Active
firepower#
firepower#
firepower# sh fail
firepower# sh failover state

```

	State	Last Failure Reason	Date/Time
This host -	Secondary		
	Active	None	
Other host -	Primary		
	Standby Ready	None	

```

====Configuration State====
        Sync Skipped
====Communication State====
        Mac set

```

```
firepower#
```

Nadat de failover is voltooid, kunt u doorgaan met het upgraden van het andere apparaat. Gebruik de stappen die aan het begin van het document zijn beschreven voor het apparaat dat eerder actief was en nu stand-by is.

Beide apparaten zijn nu geüpgraded. U kunt zien met de opdracht toont versie aan Lina kant. Voor het primaire apparaat:

```

firepower#
firepower# show failover state

        State          Last Failure Reason    Date/Time
This host - Primary
          Standby Ready  None
Other host - Secondary
          Active         None

====Configuration State====
        Sync Skipped - STANDBY
====Communication State====
        Mac set

```

```
firepower#
```

Voor het secundaire apparaat:

```

firepower#
firepower# sh failover state

        State          Last Failure Reason    Date/Time

```

This host - Secondary  
Active None  
Other host - Primary  
Standby Ready Comm Failure 14:03:06 UTC Jul 18 2024

====Configuration State====  
Sync Skipped  
====Communication State====  
Mac set

firepower#

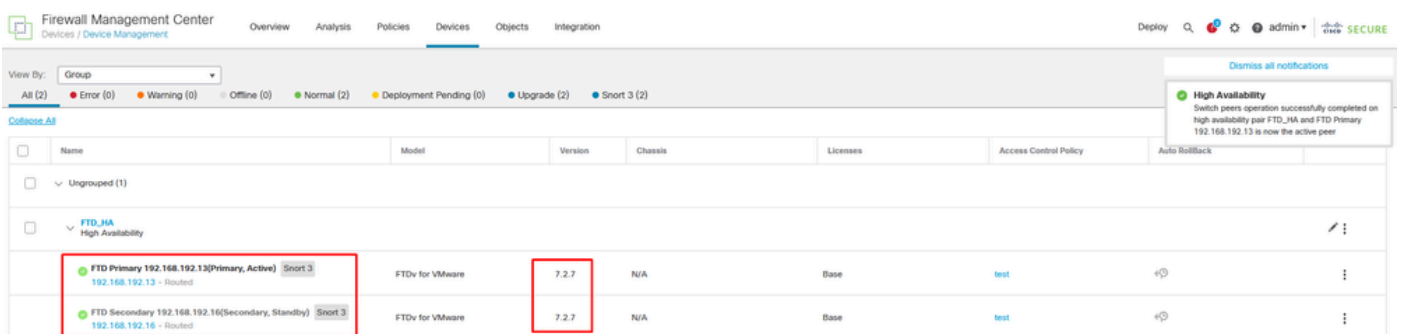
Op dit punt kun je switches over de toestellen van FMC zoals het was in het begin.

## Verifiëren

Na de succesvolle upgrade van beide apparaten, verifieert u de status binnen het VCC en op beide FTD's met behulp van de opdrachtshow versie.

```
firepower# show version
-----[ firepower ]-----
Model          : Cisco Firepower Threat Defense for VMware (75) Version 7.2.7 (Build 500)
UUID           : 0edf9f22-78e6-11ea-8ed0-e0e5abf334e2
LSP version    : lsp-rel-20240306-2015
VDB version    : 353
-----
```

Op het VCC kunt u de versie-update zien en bent u klaar om te switches zoals u het in het begin had.



The screenshot shows the Firepower Management Center interface. At the top, there are navigation tabs: Overview, Analysis, Policies, Devices, Objects, and Integration. The 'Devices' tab is selected. Below the navigation, there is a status bar with various indicators: All (2), Error (0), Warning (0), Offline (0), Normal (2), Deployment Pending (0), Upgrade (2), and Smart 3 (2). A notification box on the right indicates 'High Availability' with the message: 'Switch peers operation successfully completed on high availability pair FTD\_HA and FTD Primary 192.168.192.13 is now the active peer'. Below the notification, there is a table with columns: Name, Model, Version, Chassis, Licenses, Access Control Policy, and Auto Rollback. The table contains two rows for FTD devices. The first row is 'FTD Primary 192.168.192.13(Primary, Active) Smart 3' with version 7.2.7. The second row is 'FTD Secondary 192.168.192.16(Secondary, Standby) Smart 3' with version 7.2.7. Both rows are highlighted with a red box.

Name	Model	Version	Chassis	Licenses	Access Control Policy	Auto Rollback
FTD Primary 192.168.192.13(Primary, Active) Smart 3 192.168.192.13 - Routed	FTDv for VMware	7.2.7	N/A	Base	test	+
FTD Secondary 192.168.192.16(Secondary, Standby) Smart 3 192.168.192.16 - Routed	FTDv for VMware	7.2.7	N/A	Base	test	+

Switched peers van FMC

## Over deze vertaling

Cisco heeft dit document vertaald via een combinatie van machine- en menselijke technologie om onze gebruikers wereldwijd ondersteuningscontent te bieden in hun eigen taal. Houd er rekening mee dat zelfs de beste machinevertaling niet net zo nauwkeurig is als die van een professionele vertaler. Cisco Systems, Inc. is niet aansprakelijk voor de nauwkeurigheid van deze vertalingen en raadt aan altijd het oorspronkelijke Engelstalige document ([link](#)) te raadplegen.