

# Actualización de FTD HA gestionado por FMC

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## Introducción

Este documento describe el proceso de actualización para Cisco Secure Firewall Threat Defense en alta disponibilidad administrado por un centro de administración de firewall.

## Prerequisites

### Requirements

Cisco recomienda tener conocimientos de estos temas:

- Conceptos y configuración de alta disponibilidad (HA)
- Configuración de Secure Firewall Management Center (FMC)
- Configuración de Cisco Secure Firewall Threat Defence (FTD)

### Componentes Utilizados

La información de este documento se basa en:

- Virtual Firewall Management Center (FMC), versión 7.2.4
- Virtual Cisco Firewall Threat Defence (FTD), versión 7.0.1

La información que contiene este documento se creó a partir de los dispositivos en un ambiente de laboratorio específico. Todos los dispositivos que se utilizan en este documento se pusieron en funcionamiento con una configuración verificada (predeterminada). Si tiene una red en vivo, asegúrese de entender el posible impacto de cualquier comando.

## Overview

El funcionamiento del FMC consiste en actualizar un par cada vez. Primero el Standby, luego el Active, haciendo una conmutación por fallas antes de que la actualización Active se complete.

## Antecedentes

El paquete de actualización se debe descargar de [software.cisco.com](https://software.cisco.com) antes de la actualización.

En el clish de CLI, ejecute el comando `show high-availability config` en el FTD activo para verificar el estado de High Availability.

```
> show high-availability config
Failover On
Failover unit Secondary
Failover LAN Interface: FAILOVER_LINK GigabitEthernet0/0 (up)
Reconnect timeout 0:00:00
Unit Poll frequency 1 seconds, holdtime 15 seconds
Interface Poll frequency 5 seconds, holdtime 25 seconds
Interface Policy 1
Monitored Interfaces 3 of 1285 maximum
MAC Address Move Notification Interval not set
failover replication http
Version: Ours 9.16(2)5, Mate 9.16(2)5
Serial Number: Ours 9AJJSEGJS2T, Mate 9AVLW3FSSK8
Last Failover at: 00:37:48 UTC Jul 20 2023
```

```
    This host: Secondary - Standby Ready
      Active time: 4585 (sec)
      slot 0: ASAv hw/sw rev (/9.16(2)5) status (Up Sys)
        Interface INSIDE (10.10.153.2): Normal (Monitored)
        Interface diagnostic (0.0.0.0): Normal (Waiting)
        Interface OUTSIDE (10.20.153.2): Normal (Monitored)
      slot 1: snort rev (1.0) status (up)
      slot 2: diskstatus rev (1.0) status (up)
```

```
    Other host: Primary - Active
      Active time: 60847 (sec)
      Interface INSIDE (10.10.153.1): Normal (Monitored)
      Interface diagnostic (0.0.0.0): Normal (Waiting)
      Interface OUTSIDE (10.20.153.1): Normal (Monitored)
      slot 1: snort rev (1.0) status (up)
      slot 2: diskstatus rev (1.0) status (up)
```

### Stateful Failover Logical Update Statistics

```
Link : FAILOVER_LINK GigabitEthernet0/0 (up)
Stateful Obj   xmit   xerr   rcv    rerr
General       9192   0      10774  0
sys cmd       9094   0      9092   0
...
Rule DB B-Sync 0       0       0       0
Rule DB P-Sync 0       0      204     0
Rule DB Delete 0       0       1       0
```

### Logical Update Queue Information

|         | Cur | Max | Total |
|---------|-----|-----|-------|
| Recv Q: | 0   | 9   | 45336 |
| Xmit Q: | 0   | 11  | 11572 |

Si no hay errores visibles, continúe con la actualización.

## Configurar

### Paso 1. Cargar paquete de actualización

- Cargue el paquete de actualización del FTD en el FMC mediante la interfaz gráfica de usuario (GUI).

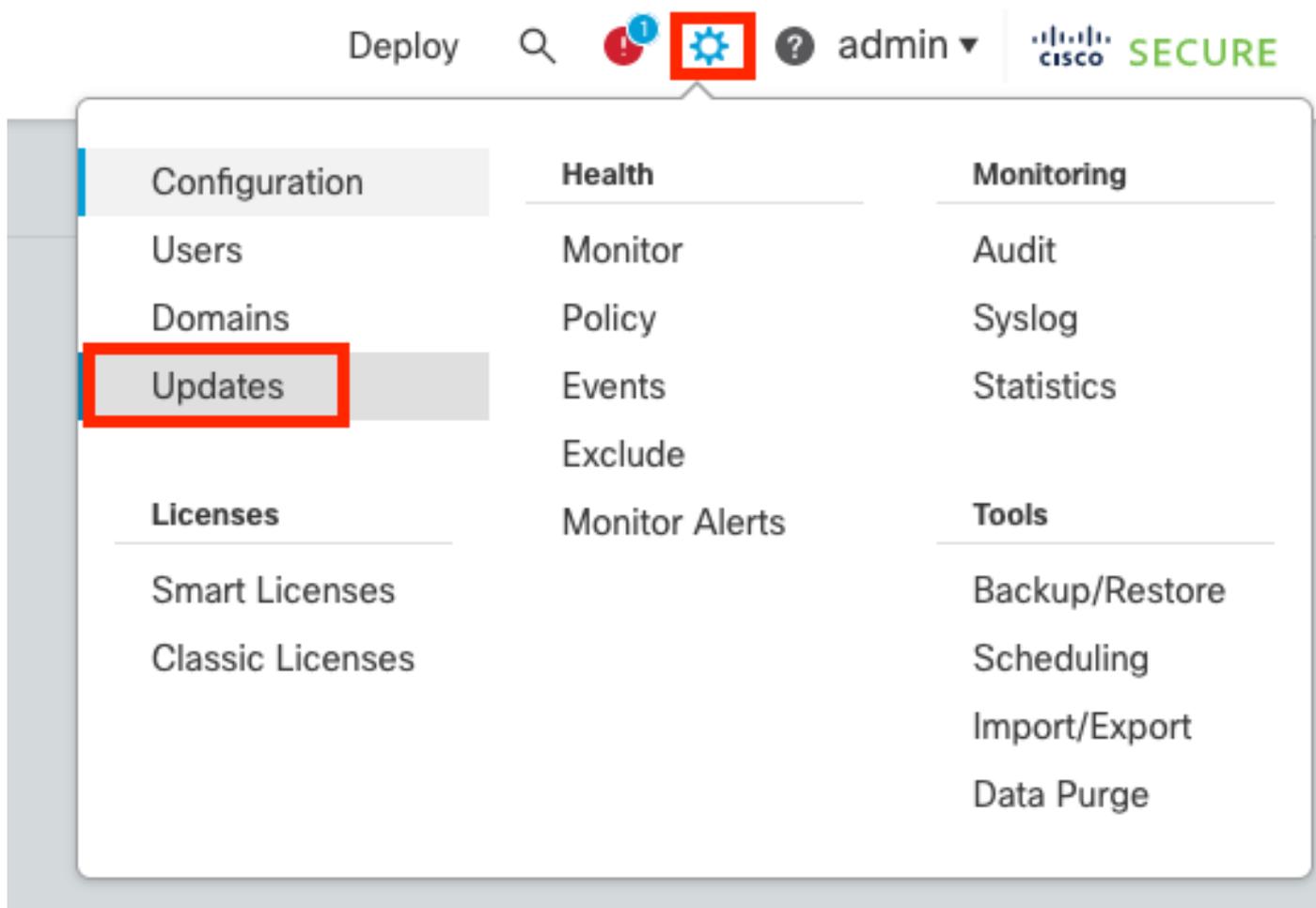
Esto debe descargarse previamente del sitio de software de Cisco en función del modelo de FTD y de la versión deseada.

---

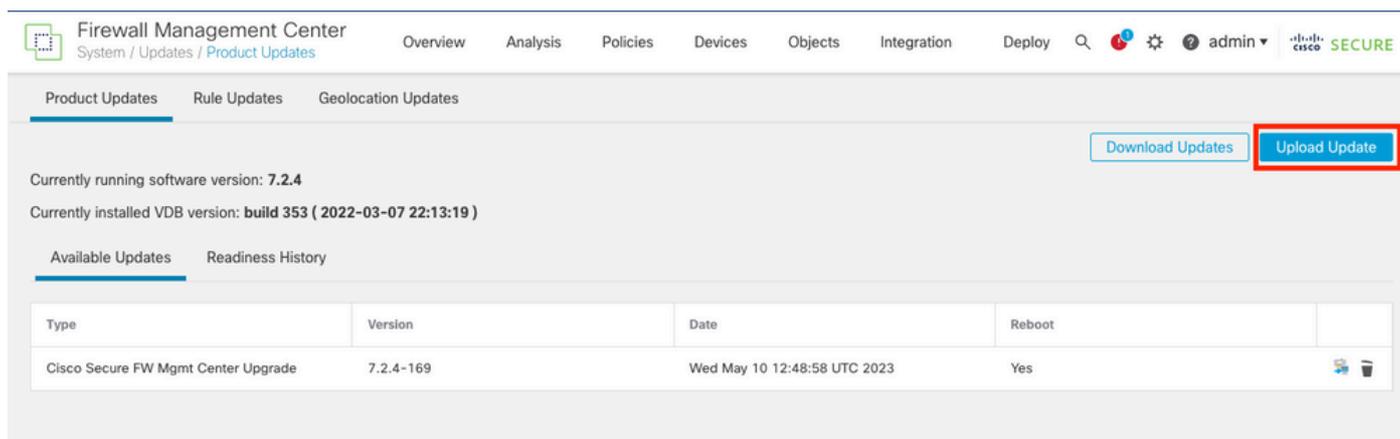


Advertencia: Asegúrese de que la versión del FMC es superior o igual a la nueva versión del FTD que se va a actualizar.

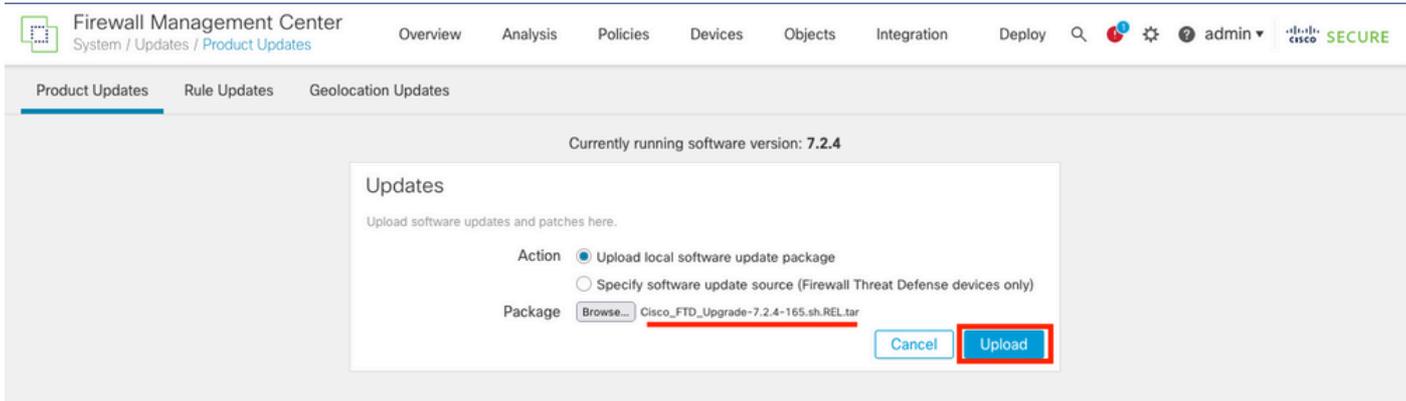
---



- Seleccione Cargar actualización.



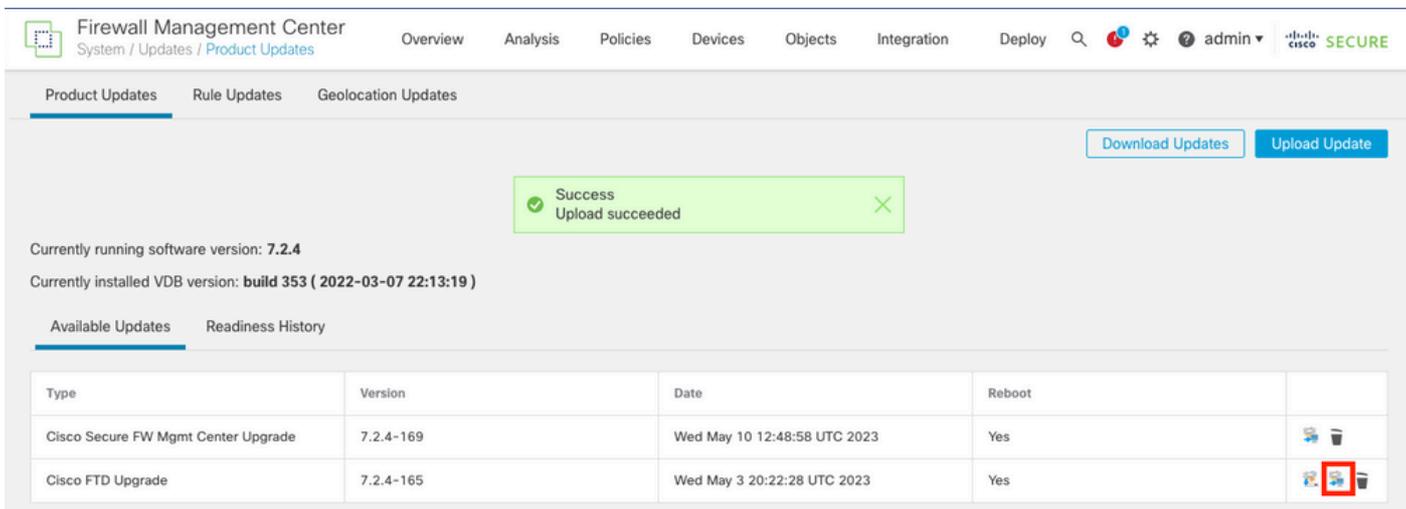
- Busque la imagen descargada anteriormente y, a continuación, seleccione Cargar.



## Paso 2. Comprobar preparación

Las comprobaciones de preparación confirman si los dispositivos están preparados para continuar con la actualización.

- Seleccione la opción Install en el paquete de actualización correcto.



Seleccione la actualización que prefiera. En este caso, la selección es para:

- Cancelar automáticamente en caso de fallo de actualización y revertir a la versión anterior.
- Habilitar la reversión después de una actualización correcta.
- Actualice Snort 2 a Snort 3.
- Seleccione el grupo HA de FTD y haga clic en Check Readiness.

Product Updates   Rule Updates   Geolocation Updates

Currently running software version: **7.2.4**

**Selected Update**

|         |                             |
|---------|-----------------------------|
| Type    | Cisco FTD Upgrade           |
| Version | 7.2.4-165                   |
| Date    | Wed May 3 20:22:28 UTC 2023 |
| Reboot  | Yes                         |

**Automatically cancel on upgrade failure and roll back to the previous version** (Applies to individual units in HA or Clusters)

**Enable revert after successful upgrade**

**Upgrade Snort 2 to Snort 3**  
 After the software upgrade, eligible devices will upgrade from Snort 2 to Snort 3 when you deploy configurations. For devices that are ineligible because they use custom Intrusion or Network Analysis Policies, we strongly recommend you manually upgrade to Snort 3 for improved detection and performance. [Learn more](#)

By Group ▾

| <input checked="" type="checkbox"/> | Ungrouped (1 total)   | Compatibility Check                        | Readiness Check Results | Readiness Check Completed | Snort 3 | Estimated Upgrade Time |   |
|-------------------------------------|---|--|-------------------------|---------------------------|---------|------------------------|---|
| <input checked="" type="checkbox"/> | FTD_HA<br>Cisco Firepower Threat Defense for VMware Cluster                     |  |                         |                           |         |                        |   |
| <input checked="" type="checkbox"/> | FTD_A (active)<br>10.4.11.87 - Cisco Firepower Threat Defense for VMware v7.0.1 | ✔ Compatibility check passed. Proceed with |                         |                           | N/A     | 10 min                 | ⬇ |
| <input checked="" type="checkbox"/> | FTD_B<br>10.4.11.86 - Cisco Firepower Threat Defense for VMware v7.0.1          | ✔ Compatibility check passed. Proceed with |                         |                           | N/A     | 10 min                 | ⬇ |

El progreso se puede verificar en el centro de mensajes Mensajes > Tareas.

Policies   Devices   Objects   Integration   Deploy   🔍   📢   ⚙️   ? admin ▾   CISCO SECURE

Deployments   Upgrades   🚨 Health   **Tasks**   🏷️ Show Notifications

**20+ total** | 0 waiting | 0 running | 0 retrying | 20+ success | 0 failures

🔍 Filter

✔ Remote Readiness Check

Checking Cisco FTD Upgrade 7.2.4-165 on [ FTD\_HA ] 2m 11s ✕

10.4.11.86: Success. OK to upgrade to 7.2.4-165 version.

10.4.11.87: Success. OK to upgrade to 7.2.4-165 version.

Una vez completada la comprobación de preparación en FTD y obtenido el resultado con éxito, se puede realizar la actualización.

By Group ▾

| <input type="checkbox"/> | Ungrouped (1 total)   | Compatibility Check                        | Readiness Check Results | Readiness Check Completed | Snort 3 | Estimated Upgrade Time |   |
|--------------------------|---|--|-------------------------|---------------------------|---------|------------------------|---|
| <input type="checkbox"/> | FTD_HA<br>Cisco Firepower Threat Defense for VMware Cluster                     |  |                         |                           |         |                        |   |
| <input type="checkbox"/> | FTD_A (active)<br>10.4.11.87 - Cisco Firepower Threat Defense for VMware v7.0.1 | ✔ Compatibility check passed. Proceed with | <b>Success</b>          | 2023-07-20 14:33:00       | N/A     | 10 min                 | ⬇ |
| <input type="checkbox"/> | FTD_B<br>10.4.11.86 - Cisco Firepower Threat Defense for VMware v7.0.1          | ✔ Compatibility check passed. Proceed with | <b>Success</b>          | 2023-07-20 14:33:00       | N/A     | 10 min                 | ⬇ |

### Paso 3. Actualización de FTD en alta disponibilidad

- Seleccione el par HA y haga clic en Install.

Firewall Management Center  
System / Updates / Upload Update

Overview Analysis Policies Devices Objects Integration Deploy 🔍 ⚙️ ? admin ▾

Product Updates Rule Updates Geolocation Updates

**Warnings**

- Version 7.2.0 onwards, the Intelligent Application Bypass (IAB) setting is deprecated for ... [See More](#)
- Version 7.2.0 onwards, the port\_scan inspector is deprecated for Snort 3 ... [See More](#)

Currently running software version: 7.2.4

**Selected Update**

|         |                             |
|---------|-----------------------------|
| Type    | Cisco FTD Upgrade           |
| Version | 7.2.4-165                   |
| Date    | Wed May 3 20:22:28 UTC 2023 |
| Reboot  | Yes                         |

Automatically cancel on upgrade failure and roll back to the previous version (Applies to individual units in HA or Clusters)

Enable revert after successful upgrade

Upgrade Snort 2 to Snort 3  
After the software upgrade, eligible devices will upgrade from Snort 2 to Snort 3 when you deploy configurations. For devices that are ineligible because they use custom Intrusion or Network Analysis Policies, we strongly recommend you manually upgrade to Snort 3 for improved detection and performance. [Learn more](#)

By Group ▾

| <input checked="" type="checkbox"/> | Ungrouped (1 total)   | Compatibility Check                         | Readiness Check Results | Readiness Check Completed | Snort 3 | Estimated Upgrade Time |    |
|-------------------------------------|---|---|-------------------------|---------------------------|---------|------------------------|----|
| <input checked="" type="checkbox"/> | FTD_HA<br>Cisco Firepower Threat Defense for VMware Cluster                     |   |                         |                           |         |                        |    |
| <input checked="" type="checkbox"/> | FTD_A (active)<br>10.4.11.87 - Cisco Firepower Threat Defense for VMware v7.0.1 | ✔️ Compatibility check passed. Proceed with | Success                 | 2023-07-20 14:33:00       | N/A     | 10 min                 | ⬇️ |
| <input checked="" type="checkbox"/> | FTD_B<br>10.4.11.86 - Cisco Firepower Threat Defense for VMware v7.0.1          | ✔️ Compatibility check passed. Proceed with | Success                 | 2023-07-20 14:33:00       | N/A     | 10 min                 | ⬇️ |

Advertencia para continuar con la actualización, el sistema se reinicia para completar la actualización. Seleccione Aceptar.

 10.88.243.115:43092

Update installation will reboot the system(s). Are you sure you want to continue?

El progreso se puede verificar en el centro de mensajes Mensajes > Tareas.

Deployments Upgrades **Health** **Tasks**  Show Notifications

20+ total | 0 waiting | 1 running | 0 retrying | 20+ success | 0 failures

 Remote Install

**Apply Cisco FTD Upgrade 7.2.4-165 to FTD\_HA** 8m 57s

FTD\_B : Upgrade in progress: (14% done.12 mins to reboot). Updating Operating System...  
(300\_os/100\_install\_Fire\_Linux\_OS\_aquila.sh (in background: 200\_pre/600\_ftd\_onbox\_data\_export.sh))

firepower: View details.

Si hace clic en firepower: Ver detalles, el progreso se muestra de forma gráfica y los registros de status.log.

# Upgrade in Progress



## FTD\_B

10.4.11.86

Cisco Firepower Threat Defense for VMware (Version: 7.0.1-84)

**Version:** 7.2.4-165 | **Size:** 1.04 GB | **Build Date:** May 3, 2023 8:22 PM UTC

**Initiated By:** admin | **Initiated At:** Jul 20, 2023 2:58 PM EDT



14% Completed (12 minutes left)

### Upgrade In Progress...

Updating Operating System... (300\_os/100\_install\_Fire\_Linux\_OS\_aquila.sh (in background: 200\_pre/600\_ftd\_onbox\_data\_export.sh))

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

### Log Details



```
Thu Jul 20 18:56:51 UTC 2023 7% Running script 200_pre/202_disable_syncd.sh... 13 mins
Thu Jul 20 18:56:51 UTC 2023 7% Running script 200_pre/400_restrict_rpc.sh... 13 mins
Thu Jul 20 18:56:51 UTC 2023 7% Running script 200_pre/500_stop_system.sh... 13 mins
Thu Jul 20 18:57:17 UTC 2023 7% Running script 200_pre/501_recovery.sh... 13 mins rema
Thu Jul 20 18:57:18 UTC 2023 14% Running script 200_pre/505_revert_prep.sh... 12 mins
Thu Jul 20 18:58:05 UTC 2023 14% Running script 200_pre/999_enable_sync.sh... 12 mins
Thu Jul 20 18:58:05 UTC 2023 14% Running script 300_os/001_verify_bundle.sh... 12 mins
Thu Jul 20 18:58:06 UTC 2023 14% Running script 300_os/002_set_auto_neg.pl... 12 mins
Thu Jul 20 18:58:06 UTC 2023 14% Running script 300_os/060_fix_fstab.sh... 12 mins re
Thu Jul 20 18:58:06 UTC 2023 14% Running script 300_os/100_install_Fire_Linux_OS_aqui
```

Cancel Upgrade

Close

---

Nota: La actualización tarda unos 20 minutos por FTD.

---

En CLI, el progreso se puede verificar en la carpeta de actualización /ngfw/var/log/sf; pase al modo experto e ingrese al acceso raíz.

```
> expert
admin@firepower:~$ sudo su
Password:
root@firepower:/home/admin# cd /ngfw/var/log/sf

root@firepower:/ngfw/var/log/sf# ls
Cisco_FTD_Upgrade-7.2.4

root@firepower:/ngfw/var/log/sf# cd Cisco_FTD_Upgrade-7.2.4

root@firepower:/ngfw/var/log/sf/Cisco_FTD_Upgrade-7.2.4# ls
000_start AQ_UUID DBCheck.log finished_kickstart.flag flags.conf main_upgrade_script.log status.log

root@firepower:/ngfw/var/log/sf/Cisco_FTD_Upgrade-7.2.4# tail -f status.log
```

```
state:running
ui:Upgrade has begun.
ui: Upgrade in progress: ( 0% done.14 mins to reboot). Checking device readiness... (000_start/000_00_r
...
ui: Upgrade in progress: (64% done. 5 mins to reboot). Finishing the upgrade... (999_finish/999_zzz_com
ui: Upgrade complete
ui: The system will now reboot.
ui:System will now reboot.
```

Broadcast message from root@firepower (Thu Jul 20 19:05:20 2023):

System will reboot in 5 seconds due to system upgrade.

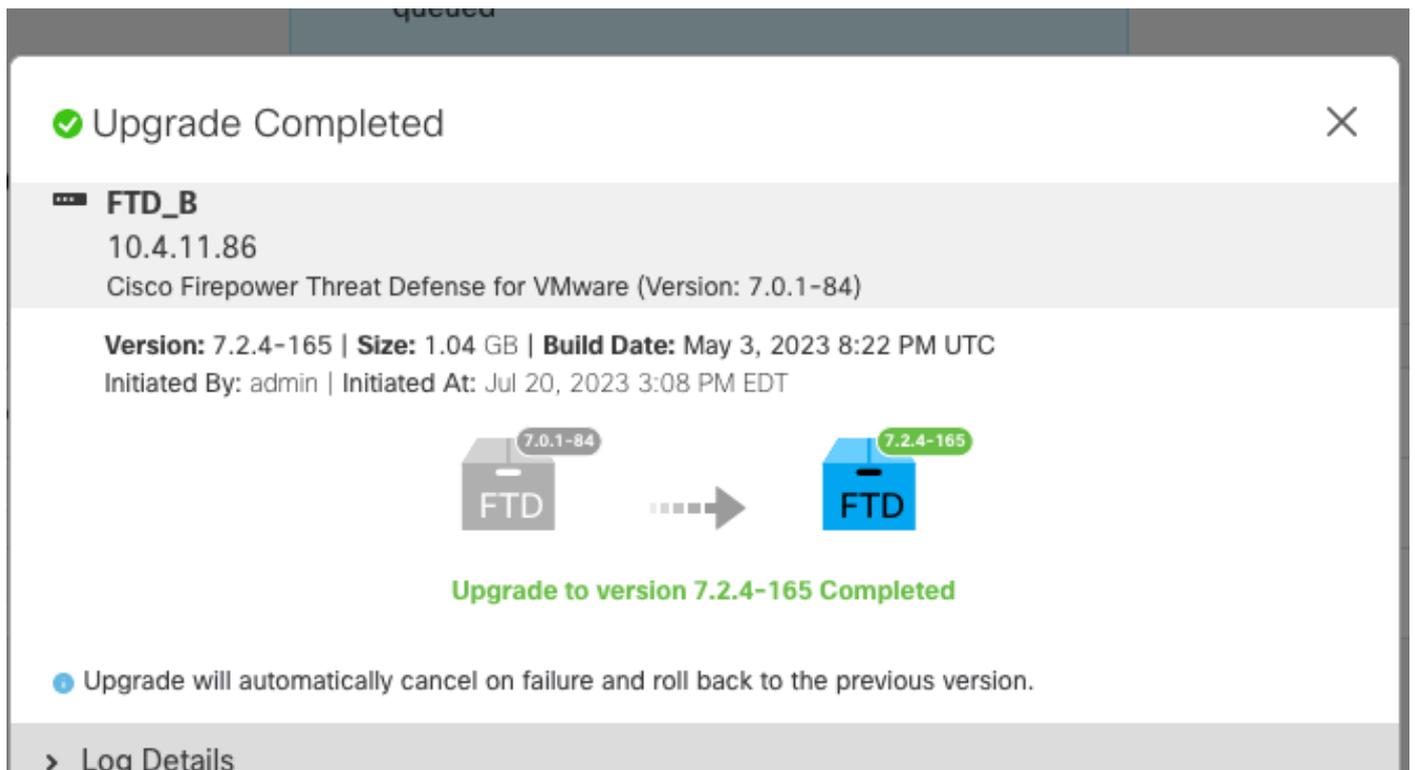
Broadcast message from root@firepower (Thu Jul 20 19:05:25 2023):

System will reboot now due to system upgrade.

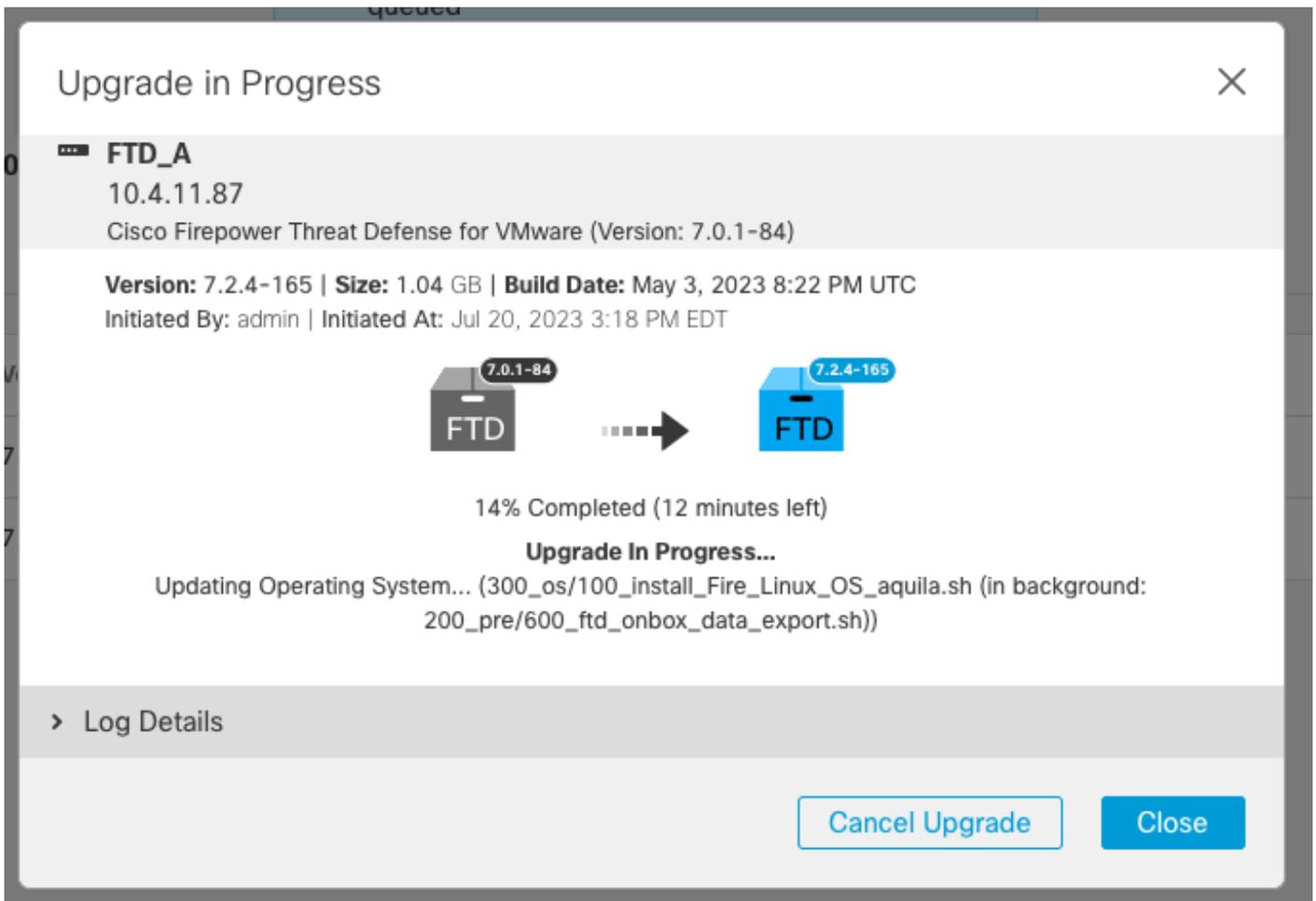
Broadcast message from root@firepower (Thu Jul 20 19:05:34 2023):

The system is going down for reboot NOW!

El estado de actualización se marca como completado en la GUI y muestra los siguientes pasos.



Una vez completada la actualización en el dispositivo en espera, se inicia en el dispositivo activo.



En CLI, vaya a LINA (system support diagnostic-cli) y verifique el estado de conmutación por fallas en el FTD en espera mediante el comando show failover state.

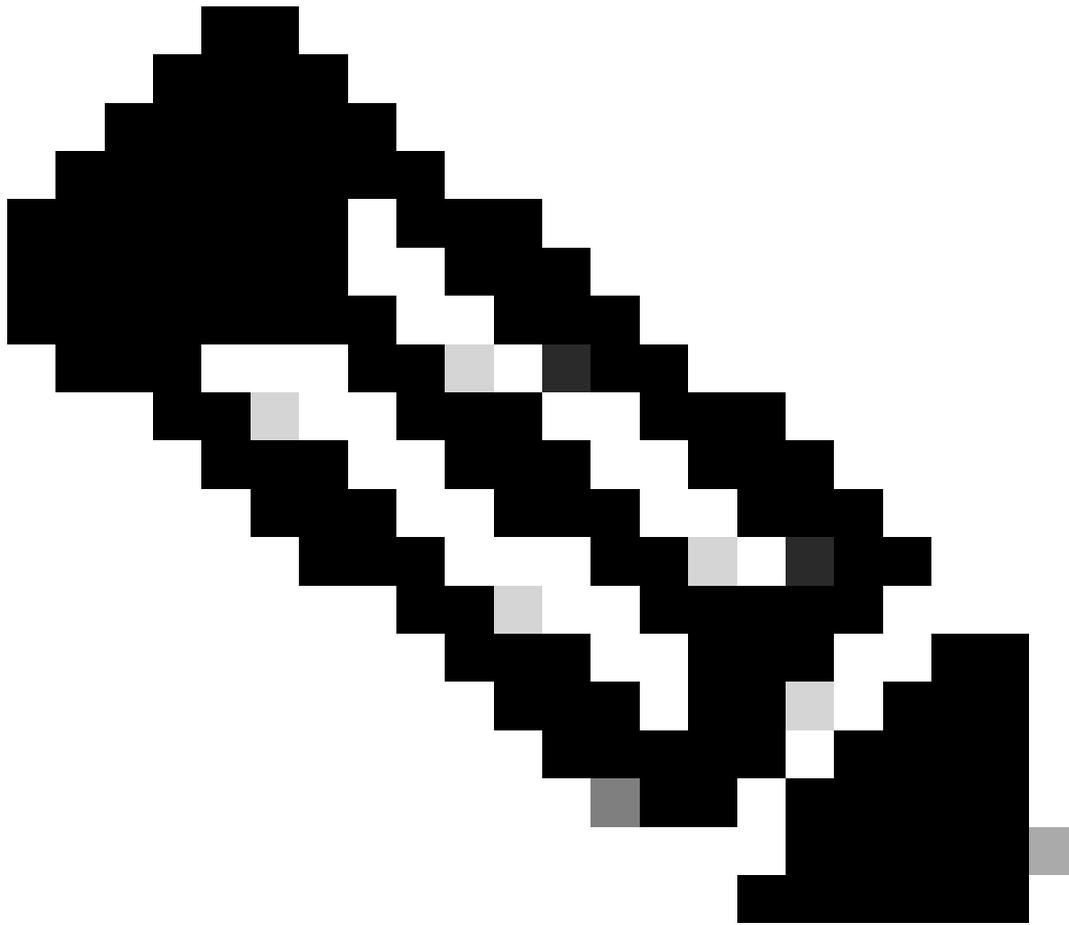
```
> system support diagnostic-cli
Attaching to Diagnostic CLI ... Press 'Ctrl+a then d' to detach.
Type help or '?' for a list of available commands.

firepower> enable
Password:
firepower# show failover state

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

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

firepower#
Switching to Active
```



Nota: La conmutación por fallo se produce automáticamente como parte de la actualización. Antes de que el FTD activo se reinicie y complete la actualización.

---

Una vez completada la actualización, es necesario reiniciar:

✔ Upgrade Completed



FTD\_A

10.4.11.87

Cisco Firepower Threat Defense for VMware (Version: 7.0.1-84)

**Version:** 7.2.4-165 | **Size:** 1.04 GB | **Build Date:** May 3, 2023 8:22 PM UTC

**Initiated By:** admin | **Initiated At:** Jul 20, 2023 3:28 PM EDT



Upgrade to version 7.2.4-165 Completed

> Log Details

Close

Paso 4. Switch Active Peer (Opcional)



Nota: si el dispositivo secundario está activo, no tiene ningún impacto en el funcionamiento.

Tener un dispositivo principal tan activo y secundario como en espera es una práctica recomendada que ayuda a realizar un seguimiento de cualquier fallo que se pueda producir.

---

En este caso, el FTD activo está ahora en espera, se puede utilizar una conmutación por fallo manual para volver a activarlo.

- Desplácese hasta los tres puntos situados junto al signo de edición.

View By: Group Deployment History

All (2) ● Error (0) ● Warning (0) ● Offline (0) ● Normal (2) ● Deployment Pending (1) ● Upgrade (2) ● Snort 3 (2) 🔍 Search Device Add

[Collapse All](#)

| <input type="checkbox"/>             | Name  | Model           | Ver... | Chassis | Licenses                 | Access Control Policy | Auto RollBack |   |
|--------------------------------------|---|-----------------|--------|---------|--------------------------|-----------------------|---------------|---|
| <input type="checkbox"/>             | Ungrouped (1)                                   |                 |        |         |                          |                       |               |   |
| <input type="checkbox"/>             | FTD_HA<br>High Availability                     |                 |        |         |                          |                       |               |   |
| <span style="color: green;">●</span> | FTD_A(Primary, Standby)<br>10.4.11.87 - Routed  | FTDv for VMware | 7.2.4  | N/A     | Base, Threat (1 more...) | policy_lab            | ↶             | ⋮ |
| <span style="color: green;">●</span> | FTD_B(Secondary, Active)<br>10.4.11.86 - Routed | FTDv for VMware | 7.2.4  | N/A     | Base, Threat (1 more...) | policy_lab            | ↶             | ⋮ |

- Seleccione Switch Active Peer.

Firewall Management Center Overview Analysis Policies **Devices** Objects Integration Deploy 🔍 ⚙️ 👤 admin 🔒

View By: Group Deployment History

All (2) ● Error (0) ● Warning (0) ● Offline (0) ● Normal (2) ● Deployment Pending (1) ● Upgrade (2) ● Snort 3 (2) 🔍 Search Device Add

[Collapse All](#)

| <input type="checkbox"/>             | Name  | Model           | Ver... | Chassis | Licenses                 | Access Control Policy | Auto RollBack |   |
|--------------------------------------|---|-----------------|--------|---------|--------------------------|-----------------------|---------------|---|
| <input type="checkbox"/>             | Ungrouped (1)                                   |                 |        |         |                          |                       |               |   |
| <input type="checkbox"/>             | FTD_HA<br>High Availability                     |                 |        |         |                          |                       |               |   |
| <span style="color: green;">●</span> | FTD_A(Primary, Standby)<br>10.4.11.87 - Routed  | FTDv for VMware | 7.2.4  | N/A     | Base, Threat (1 more...) | policy_lab            | ↶             | ⋮ |
| <span style="color: green;">●</span> | FTD_B(Secondary, Active)<br>10.4.11.86 - Routed | FTDv for VMware | 7.2.4  | N/A     | Base, Threat (1 more...) | policy_lab            | ↶             | ⋮ |

- Switch Active Peer
- Break
- Force refresh node status
- Delete
- Revert Upgrade
- Health Monitor
- Troubleshoot Files

- Seleccione YES para confirmar la conmutación por error.

# Switch Active Peer

Are you sure you want to make "FTD\_A" the active peer?

No

Yes

Validación del estado de alta disponibilidad al final de la actualización y conmutación por fallo realizada.

Devices > Device Management

Firewall Management Center  
Devices / Device Management

Overview Analysis Policies **Devices** Objects Integration Deploy

View By: Group

All (2) Error (0) Warning (0) Offline (0) Normal (2) Deployment Pending (1) Upgrade (2) Snort 3 (2)

Search Device Add

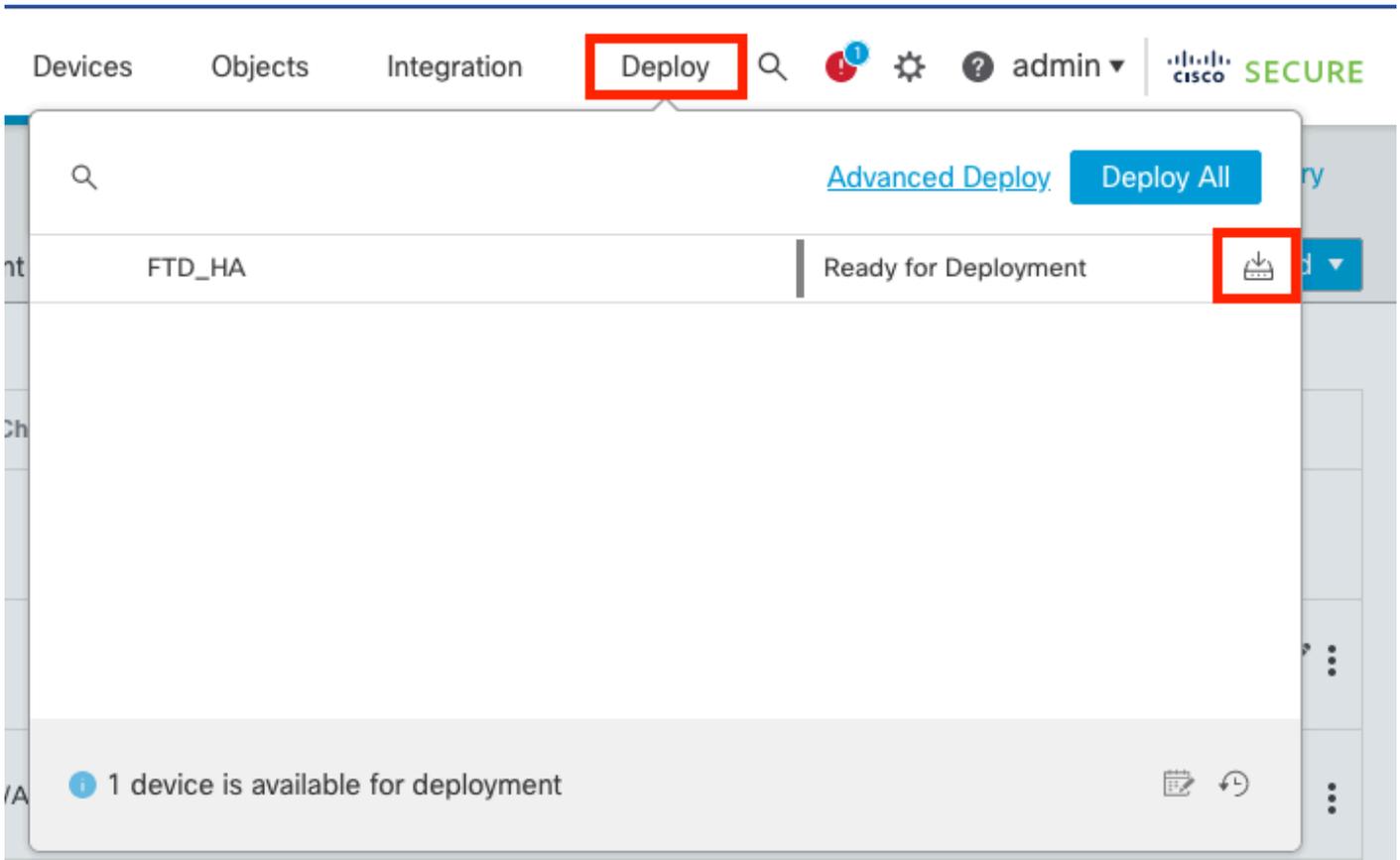
Deployment History

Collapse All

| <input type="checkbox"/>            | Name   | Model           | Ver... | Chassis | Licenses                 | Access Control Policy | Auto RollBack |  |
|-------------------------------------|--|-----------------|--------|---------|--------------------------|-----------------------|---------------|--|
| <input type="checkbox"/>            | Ungrouped (1)                                    |                 |        |         |                          |                       |               |  |
| <input type="checkbox"/>            | FTD_HA<br>High Availability                      |                 |        |         |                          |                       |               |  |
| <input checked="" type="checkbox"/> | FTD_A(Primary, Active)<br>10.4.11.87 - Routed    | FTDv for VMware | 7.2.4  | N/A     | Base, Threat (1 more...) | policy_lab            |               |  |
| <input checked="" type="checkbox"/> | FTD_B(Secondary, Standby)<br>10.4.11.86 - Routed | FTDv for VMware | 7.2.4  | N/A     | Base, Threat (1 more...) | policy_lab            |               |  |

## Paso 5. Implementación final

- Implementar una política en dispositivos Implementar > Implementar en este dispositivo.



## Validar

Para validar que el estado de alta disponibilidad y la actualización han finalizado, debe confirmar el estado:

Primario: Activo

Secundario: preparado en espera

Ambos se encuentran en la versión que es la que se ha cambiado recientemente (7.2.4 en este ejemplo).

- En FMC GUI, navegue hasta Devices > Device Management.

Firewall Management Center  
Devices / Device Management

Overview Analysis Policies **Devices** Objects Integration

Deploy Search Admin Admin

View By: Group

All (2) Error (0) Warning (0) Offline (0) Normal (2) Deployment Pending (0) Upgrade (2) Snort 3 (2)

Deployment History

Search Device Add

Collapse All

| Name  | Model           | Version      | Chassis | Licenses                 | Access Control Policy | Auto RollBack |
|---|-----------------|--------------|---------|--------------------------|-----------------------|---------------|
| <input type="checkbox"/> Ungrouped (1)  |                 |              |         |                          |                       |               |
| <input type="checkbox"/> <b>FTD_HA</b><br>High Availability   |                 |              |         |                          |                       |               |
| <input checked="" type="checkbox"/> <b>FTD_A(Primary, Active)</b> Snort 3<br>10.4.11.87 - Routed    | FTDv for VMware | <u>7.2.4</u> | N/A     | Base, Threat (1 more...) | policy_lab            | ↶             |
| <input checked="" type="checkbox"/> <b>FTD_B(Secondary, Standby)</b> Snort 3<br>10.4.11.86 - Routed | FTDv for VMware | <u>7.2.4</u> | N/A     | Base, Threat (1 more...) | policy_lab            | ↶             |

- Durante el clish de CLI, verifique el estado de failover usando el comando show failover state y show failover para obtener información más detallada.

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

> show failover state

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

====Configuration State====

====Communication State====

Mac set

> show failover

```
Failover On
Failover unit Primary
Failover LAN Interface: FAILOVER_LINK GigabitEthernet0/0 (up)
Reconnect timeout 0:00:00
Unit Poll frequency 1 seconds, holdtime 15 seconds
Interface Poll frequency 5 seconds, holdtime 25 seconds
Interface Policy 1
Monitored Interfaces 3 of 1285 maximum
MAC Address Move Notification Interval not set
failover replication http
Version: Ours 9.18(3)39, Mate 9.18(3)39
Serial Number: Ours 9AVLW3FSSK8, Mate 9AJJSEGJS2T
Last Failover at: 19:56:41 UTC Jul 20 2023
  This host: Primary - Active
    Active time: 181629 (sec)
    slot 0: ASAv hw/sw rev (/9.18(3)39) status (Up Sys)
      Interface INSIDE (10.10.153.1): Normal (Monitored)
      Interface OUTSIDE (10.20.153.1): Normal (Monitored)
      Interface diagnostic (0.0.0.0): Normal (Waiting)
    slot 1: snort rev (1.0) status (up)
    slot 2: diskstatus rev (1.0) status (up)
  Other host: Secondary - Standby Ready
    Active time: 2390 (sec)
    Interface INSIDE (10.10.153.2): Normal (Monitored)
    Interface OUTSIDE (10.20.153.2): Normal (Monitored)
    Interface diagnostic (0.0.0.0): Normal (Waiting)
    slot 1: snort rev (1.0) status (up)
    slot 2: diskstatus rev (1.0) status (up)
```

Stateful Failover Logical Update Statistics

```
Link : FAILOVER_LINK GigabitEthernet0/0 (up)
Stateful Obj  xmit      xerr      rcv        rerr
General      29336      0         24445      0
sys cmd      24418      0         24393      0
```

...

Logical Update Queue Information

|         | Cur | Max | Total  |
|---------|-----|-----|--------|
| Recv Q: | 0   | 11  | 25331  |
| Xmit Q: | 0   | 1   | 127887 |

Si ambos FTD se encuentran en la misma versión y el estado de alta disponibilidad es correcto, la actualización ha finalizado.

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