# 升級FTD HA (由FMC管理)

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# 簡介

本文檔介紹由防火牆管理中心管理的高可用性思科安全防火牆威脅防禦的升級過程。

必要條件

### 需求

思科建議您瞭解以下主題:

- 高可用性(HA)概念和配置
- 安全防火牆管理中心(FMC)配置
- 思科安全防火牆威脅防禦(FTD)組態

採用元件

本文檔中的資訊基於:

- 虛擬防火牆管理中心(FMC) 7.2.4版
- 虛擬思科防火牆威脅防禦(FTD),版本7.0.1

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除(預設))的組態來啟動。如果您的網路運作中,請確保您瞭解任何指令可能造成的影響。

概觀

FMC的工作方式是一次升級一個對等體。先是Standby(備用),然後是Active(活動),在 Active(活動)升級完成之前執行故障切換。

### 背景資訊

升級前必須從software.cisco.com下載升級套件。

在CLI上,於作用中FTD中執行show high-availability config命令,以檢查高可用性的狀態。

> show high-availability config Failover On Failover unit Secondary Failover LAN Interface: FAILOVER\_LINK GigabitEthernetO/O (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 Gi	gabitEth	ernet0/0	(up)	
Stateful Obj	xmit	xerr	r	cv	rerr
General	9192	0	1(	0774	0
sys cmd	9094	0	90	092	0
Rule DB B-Sync	0	0	0		0
Rule DB P-Sync	0	0	20	04	0
Rule DB Delete	0	0	1		0
Logical Update	Queue Ir	formatio	n		
	Cur	Max	Total		
Recv Q:	0	9	45336		
Xmit Q:	0	11	11572		

如果未顯示錯誤,則繼續升級。

# 設定

步驟 1.上傳升級套件

• 使用圖形使用者介面(GUI)將FTD升級套件上傳到FMC。 之前必須根據FTD型號和想要的版本從思科軟體網站下載此套件。





系統>更新



#### • 選擇Upload Update。

Firewall Management Center System / Updates / Product Updates	Overview	Analysis	Policies	Devices	Objects	Integration	Deploy	Q	¢	¢	admin •	diale SE	CURE
Product Updates Rule Updates Geol	ocation Updates							٢	Dow	nload	Updates	Upload Up	date
Currently running software version: 7.2.4 Currently installed VDB version: build 353 ( 202: Available Updates Readiness History	2-03-07 22:13:19 )												
Туре	Version			Date			Reboot						
Cisco Secure FW Mgmt Center Upgrade	7.2.4-169			Wed May 10 1	2:48:58 UTC 2	2023	Yes					8	Ì

• 瀏覽找到先前下載的映象,然後選擇Upload。



### 步驟 2.檢查就緒性

就緒性檢查可確認裝置是否已準備好繼續升級。

• 在正確的升級軟體套件中選擇Install選項。

Firewall Management Center System / Updates / Product Updates	Overview	Analysis	Policies	Devices	Objects	Integration	Deploy	, Q	. 🚱	¢	0	admi	n •	cisco S	ECURE
Product Updates Rule Updates Geole	ocation Updates														
									Dow	vnload	d Upd	lates	U	pload U	pdate
		Suce Uplo	cess ad succeede	d		×									
Currently running software version: 7.2.4															
Currently installed VDB version: build 353 ( 2022	-03-07 22:13:19)														
Available Updates Readiness History															
Туре	Version			Date			Reboot								
Cisco Secure FW Mgmt Center Upgrade	7.2.4-169			Wed May 10 12	2:48:58 UTC 202	23	Yes							\$	
Cisco FTD Upgrade	7.2.4-165			Wed May 3 20:	22:28 UTC 2023	3	Yes							2	÷

選擇您喜歡的升級。在本例中,選擇用於:

- 升級失敗時自動取消,並回滾到以前的版本。
- 在成功升級後啟用還原。
- 將Snort 2升級到Snort 3。
- 選擇FTD的HA群組並按一下Check Readiness。

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 H/	A or Clusters)				
C Enable revert after successful upgrade						
Upgrade Snort 2 to Snort 3 After the software upgrade, eligible devices will upgrade from Sn For devices that are ineligible because they use custom Intrusion we strongly recommend you manually upgrade to Snort 3 for imp	ort 2 to Snort 3 when you deploy configurations. or Network Analysis Policies, proved detection and performance. Learn more					
Upgrade Snort 2 to Snort 3 After the software upgrade, eligible devices will upgrade from Sn For devices that are ineligible because they use custom Intrusion we strongly recommend you manually upgrade to Snort 3 for imp	ort 2 to Snort 3 when you deploy configurations. 1 or Network Analysis Policies, roved detection and performance. Learn more			By Group	)	·
<ul> <li>Upgrade Snort 2 to Snort 3 After the software upgrade, eligible devices will upgrade from Sn For devices that are ineligible because they use custom Intrusion we strongly recommend you manually upgrade to Snort 3 for imp</li> <li>Ungrouped (1 total)</li> </ul>	ort 2 to Snort 3 when you deploy configurations. 1 or Network Analysis Policies, proved detection and performance. Learn more	Readiness Check Results	Readiness Check Completed	By Group Snort 3	Estimated Upgrade Time	î
<ul> <li>Upgrade Snort 2 to Snort 3 After the software upgrade, eligible devices will upgrade from Sn For devices that are ineligible because they use custom intrusion we strongly recommend you manually upgrade to Snort 3 for imp</li> <li>Ungrouped (1 total)</li> <li>Cisco Fitepower Threat Defense for VMware Cluster</li> </ul>	ort 2 to Snort 3 when you deploy configurations. or Network Analysis Policies, proved detection and performance. Learn more	Readiness Check Results	Readiness Check Completed	By Group Snort 3	Estimated Upgrade Time	î
<ul> <li>Upgrade Snort 2 to Snort 3 After the software upgrade, eligible devices will upgrade from Sn For devices that are ineligible because they use custom Intrusion we strongly recommend you manually upgrade to Snort 3 for imp</li> <li>Ungrouped (1 total)</li> <li>Cisco Firepower Threat Defense for VMware Cluster</li> <li>FTD_A (active) 10.4.11.87 - Cisco Firepower Threat Defense for VMware v7.0.1</li> </ul>	ort 2 to Snort 3 when you deploy configurations. n or Network Analysis Policies, proved detection and performance. Learn more Compatibility Check © Compatibility check passed. Proceed with	Readiness Check Results	Readiness Check Completed	By Group Snort 3 N/A	Estimated Upgrade Time 10 min	î I
✓       Upgrade Snort 2 to Snort 3 After the software upgrade, eligible devices will upgrade from Sn For devices that are ineligible because they use custom intrusion we strongly recommend you manually upgrade to Snort 3 for imp         ✓       ✓       Ungrouped (1 total)         ✓       ✓       ✓	ort 2 to Snort 3 when you deploy configurations. n or Network Analysis Policies, proved detection and performance. Learn more Compatibility Check Compatibility Check passed. Proceed with Compatibility check passed. Proceed with	Readiness Check Results	Readiness Check Completed	By Group Snort 3 N/A N/A	Estimated Upgrade Time 10 min 10 min	î I I

### 您可以在消息中心Messages > Tasks中檢查進度。

Po	licies	Devices	Objects	Integration	Deploy	० 🔮 🌣	<ul><li>admir</li></ul>	alialia SECURE
	Dep	loyments	Upgrades	Health	Tasks			Show Notifications
	20+ t	otal 0 v	vaiting 0 runn	ing 0 retrying	20+ success	0 failures	୍	
ec	Rer Ch 10. 10.	note Readines ecking Cisco 4.11.86: Succo 4.11.87: Succo	s Check FTD Upgrade ess. OK to upgrad ess. OK to upgrad	7.2.4-165 on [ F e to 7.2.4-165 vers e to 7.2.4-165 vers	TD_HA ] sion. sion.			2m 11s 🗙

### 當FTD中完成整備檢查且結果為「成功」時,即可完成升級。

					By Group	)	•
•	Ungrouped (1 total)	Compatibility Check	Readiness Check Results	Readiness Check Completed	Snort 3	Estimated Upgrade Time	î
□ ~	𝔗 FTD_HA Cisco Firepower Threat Defense for VMware Cluster						
	FTD_A (active) 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	1
	FTD_B 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	1

### 步驟 3.以高可用性升級FTD

• 選擇HA Pair並按一下Install。

Firewall Management Center System / Updates / Upload Update Overview	Analysis	Policies Devic	es Objects	Integration	Deploy Q 🍕	<b>\$</b> \$	admin 🔻 🖞	secure
Product Updates Rule Updates Geolocation Updates								
<ul> <li>Warnings</li> <li>Version 7.2.0 onwards, the Intelligent Application Bypass (</li> <li>Version 7.2.0 onwards, the port_scan inspector is deprecation</li> </ul>	IAB) setting is dep ted for Snort 3	precated for See Mo See More	pre					X
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 Enable revert after successful upgrade Upgrade Snort 2 to Snort 3 After the software upgrade, eligible devices will upgrade from Sr For devices that are ineligible because they use custom Intrusion we strongly recommend you manually upgrade to Snort 3 for important to the software upgrade.	previous version nort 2 to Snort 3 wi n or Network Analy proved detection a	(Applies to individual u hen you deploy configur rsis Policies, nd performance. Learn	nits in HA or Clus rations. more	iters)				
						By Group	)	¥
Ungrouped (1 total)	Compatibility (	Check	Readi Result	ness Check Is	Readiness Check Completed	Snort 3	Estimated Upgrade Tim	e Î
Cisco Firepower Threat Defense for VMware Cluster								
FTD_A (active) 10.4.11.87 - Cisco Firepower Threat Defense for VMware v7.0.	1 Sompatil	bility check passed. Proce	eed with	Success	2023-07-20 14:33:0	0 N/A	10 min	1
FTD_B 10.4.11.86 - Cisco Firepower Threat Defense for VMware v7.0.	1 Ocmpatil	bility check passed. Proce	ed with	Success	2023-07-20 14:33:0	0 N/A	10 min	1
					Ва	ck Che	ck Readiness	Install

警告要繼續升級,系統會重新啟動以完成升級。選擇OK。

οι	① 10.88.243.115:43092			
	Update installation will reboot the system want to continue?	n(s). Are you s	ure you	
		Cancel	ок	
:0 etwo	ork Analysis Policies			

您可以在消息中心Messages > Tasks中檢查進度。

Policie	es Devices	Objects	Integration	Deploy	९ 🔮 🌣	🕜 admin 🔻	cisco SECURE
	Deployments	Upgrades	🕛 Health	Tasks			Show Notifications
	20+ total 0	waiting 1 runr	ning 0 retrying	20+ success	0 failures	Q Filter	
1 C d	Remote Install Apply Cisco F FTD_B : Upgrade (300_os/100_ins firepower: View o	TD Upgrade 7.2 e in progress: (14% stall_Fire_Linux_O details.	.4-165 to FTD_F 6 done.12 mins to r S_aquila.sh (in bacl	HA eboot). Updating ( kground: 200_pre,	Dperating System. /600_ftd_onbox_c	 data_export.sh))	8m 57s

如果按一下firepower:檢視詳細資訊,則會以圖形方式顯示進度以及status.log的日誌。

#### 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	Det	tail	s

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 Thu Jul 20 18:58:06 UTC 2023 14% Running script 300\_os/060\_fix\_fstab.sh... 12 mins Thu Jul 20 18:58:06 UTC 2023 14% Running script 300\_os/060\_fix\_fstab.sh... 12 mins

Cancel Upgrade

Close

唱



附註:每FTD升級約需20分鐘。

在CLI中,可以在升級資料夾/ngfw/var/log/sf中檢查進度;請轉到expert模式並輸入root access。

> 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 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 19:05:25 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!

#### 升級狀態在GUI上標籤為已完成,並顯示後續步驟。

✓ Upgrade Completed	×
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 3:08 PM EDT	
Upgrade to version 7.2.4-165 Completed	
Upgrade will automatically cancel on failure and roll back to the previous version.	
> Log Details	

在備用裝置中完成升級後,它將在主用裝置中啟動。



在CLI上,轉到LINA(系統支援diagnostic-cli),並使用命令show failover state檢查備用FTD上的 故障切換狀態。

```
> 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
                              Last Failure Reason
                                                        Date/Time
               State
This host -
               Secondary
               Standby Ready
                              None
Other host -
               Primary
               Active
                              None
====Configuration State===
        Sync Done - STANDBY
====Communication State===
        Mac set
firepower#
        Switching to Active
```



注意:在升級過程中,故障切換會自動發生。在作用中FTD重新啟動並完成升級之前。

升級完成時,需要重新開機:



### 步驟 4.交換機活動對等體(可選)



註:如果輔助裝置處於活動狀態,則不會造成任何操作影響。 將主裝置設定為主裝置,將輔助裝置設定為備用裝置是幫助跟蹤可能發生的任何故障切換 的最佳實踐。

在這種情況下,FTD Active現在為Standby,您可以使用手動容錯移轉將其設回Active。

• 導覽至編輯符號旁的三點。

Firewall Management Center Devices / Device Management	Overview Analysis	Policies Devices	Objects Integration	Deploy Q 💕	🔅 🕝 admin 🕶 🔤	diale SECURE
View By: Group  All (2)  Error (0)  Warning (0)	Offline (0)   Normal (2)	<ul> <li>Deployment Pending</li> </ul>	(1) • Upgrade (2) • Snort 3	3 (2)	Deployr Q. Search Device	ment History Add ▼
Collapse All						
Name	Model	Ver Chassis	Licenses	Access Control Policy	Auto RollBack	
Ungrouped (1)						
High Availability						1:
FTD_A(Primary, Standby) Snort 3 10.4.11.87 - Routed	FTDv for VMware	7.2.4 N/A	Base, Threat (1 more)	policy_lab	49	:
FTD_B(Secondary, Active) Snort 3 10.4.11.86 - Routed	FTDv for VMware	7.2.4 N/A	Base, Threat (1 more)	policy_lab	43	:

### • 選擇Switch Active Peer。

Firewall Management Center Devices / Device Management	Overview Analysis	Policies Devices	Objects Integration Deploy	Q 🚱 🌣 Ø admin▼ 🖓 🐯 SECURE
View By: Group  All (2)  Error (0)  Warning (0)	Offline (0)   Normal (2)	<ul> <li>Deployment Pending (1)</li> </ul>	• Upgrade (2) • Snort 3 (2)	Deployment History Q. Search Device Add
Name Vungrouped (1)	Model	Ver Chassis	Licenses Access Policy	Control Auto RollBack
<ul> <li>FTD_HA High Availability</li> <li>FTD_A(Primary, Standby) Snort 3</li> </ul>	FTDv for VMware	7.2.4 N/A	Base, Threat (1 more) policy_li	Switch Active Peer Break Force refresh node status
FTD_B(Secondary, Active) Snort 3     10.4.11.86 - Routed	FTDv for VMware	7.2.4 N/A	Base, Threat (1 more) policy_li	b ↔ Delete Revert Upgrade Health Monitor Troubleshoot Files

• 選擇YES以確認故障切換。



升級結束時驗證高可用性狀態並完成故障轉移。 Devices > Device Management

Firewall Management Center Over	view Analysis	Policies	Devices	Objects Integration	Deploy Q 💕	🔅 🕲 admin 🕶 ;	Inde SECURE
View By: Group  All (2)  • Error (0)  • Warning (0)  Offline (0)	<ul> <li>Normal (2)</li> </ul>	<ul> <li>Deploy</li> </ul>	ment Pending (1)	• Upgrade (2) • Snort 3	(2)	Deploym	ent History
Collapse All							
Name	Model	Ver	Chassis	Licenses	Access Control Policy	Auto RollBack	
Ungrouped (1)							
C V FTD_HA High Availability							11
FTD_A(Primary, Active) Snort 3 10.4.11.87 - Routed	FTDv for VMware	7.2.4	N/A	Base, Threat (1 more)	policy_lab	4P	:
FTD_B(Secondary, Standby) Snort 3 10.4.11.86 - Routed	FTDv for VMware	7.2.4	N/A	Base, Threat (1 more)	policy_lab	49	:

### 步驟 5.最終部署

• 將策略部署到裝置Deploy > Deploy to this device。

	Devices	Objects	Integration	Deploy	۹	<b>6</b> ¢	🕐 adm	nin 🔻 🔤 dia	SEC	URE
	٩					Advance	d Deploy	Deploy A	AII -	ry
nt		FTD_HA				Ready for	Deploymer	nt	<u></u>	1 <b>-</b>
Ch										
_										° :
_										•
A	<b>1</b> c	device is availab	le for deployment					Ē	Ð	:

## 驗證

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若要驗證高可用性狀態並完成升級,您需要確認狀態: 主要:活動 輔助:備用就緒 兩者都使用最近變更的版本(本範例中為7.2.4)。

• 在FMC GUI中,導航到Devices > Device Management。

Firewall Management Center Devices / Device Management	ew Analysis Polic	ties De	vices Objects Integra	tion	Deploy Q 💕 🖁	admin •	URE
View By: Group						Deployment Histor	ry
All (2) • Error (0) • Warning (0) • Offline (0)	Normal (2)	ployment Per	nding (0) • Upgrade (2)	<ul> <li>Snort 3 (2)</li> </ul>	Q	Search Device Add	d 🔻
Collapse All							
Name	Model	Version	Chassis	Licenses	Access Control Policy	Auto RollBack	
Ungrouped (1)							
□ ∨ FTD_HA High Availability						/	':
FTD_A(Primary, Active) Snort 3     10.4.11.87 - Routed	FTDv for VMware	7.2.4	N/A	Base, Threat (1 more)	policy_lab	Q>	:
FTD_B(Secondary, Standby)     Snort 3     10.4.11.86 - Routed	FTDv for VMware	7.2.4	N/A	Base, Threat (1 more)	policy_lab	ę.	:

• 在CLI上,使用命令show failover state和show failover檢查故障切換狀態,瞭解更多詳細資訊

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 Secondary Other host -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 rerr rcv General 29336 0 24445 0 24418 0 24393 0 sys cmd . . . Logical Update Queue Information Max Cur Total Recv Q: 0 11 25331 Xmit Q: 0 1 127887

如果兩個FTD位於相同版本中,且高可用性狀態正常,則升級已完成。

#### 關於此翻譯

思科已使用電腦和人工技術翻譯本文件,讓全世界的使用者能夠以自己的語言理解支援內容。請注 意,即使是最佳機器翻譯,也不如專業譯者翻譯的內容準確。Cisco Systems, Inc. 對這些翻譯的準 確度概不負責,並建議一律查看原始英文文件(提供連結)。