# 升級Firepower裝置上的ASA HA配對

## 目錄

<u>
簡介</u>
<u>
必要條件</u> <u>
需求</u>
<u>
採用元件</u> <u>
背景資訊</u> 設定 網路圖表 <u>
任務1.從思科軟體下載頁面下載ASA映像</u> <u>
任務2.將ASA映像上傳到Firepower機箱管理器</u> <u>
任務3.升級第一個ASA裝置</u> <u>
任務4.升級第二台ASA裝置</u> <u>
驗證</u> <u>
疑難排解</u> 相關資訊

## 簡介

本檔案介紹在firepower硬體裝置上安裝的高可用性(HA)對調適型安全裝置(ASA)的升級程式。

## 必要條件

### 需求

思科建議您瞭解以下主題:

• ASA管理

• ASA故障轉移

### 採用元件

本文中的資訊係根據以下軟體和硬體版本:

- •2個運行代碼2.0.1-86的FP4150
- ASA 9.6.2.1 (升級到9.6.2.3)

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。

## 背景資訊

配置HA(主用/備用或主用/主用)時,在Firepower裝置(FPR4100、FPR9300等)上安裝的

### Updating the Image Version for a Logical Device

#### Before You Begin

Download the application image you want to use for the logical device from Cisco.com (see Downloading Images from Cisco.com) and then upload that image to the FXOS chassis (see Uploading an Image to the Firepower Security Appliance).

If you are upgrading both the Platform Bundle image and one or more Application images, you must upgrade the Platform Bundle first.

Note Note	You cannot directly upgrade a Firepower Threat Defense logical device. To upgrade a Firepower Threat Defense logical device, you must delete the existing device and then create a new one using the updated image.	
Procedu	ire	
Step 1	Choose Logical Devices to open the Logical Devices page. The Logical Devices page shows a list of configured logical devices on the chassis. If no logical devices have been configured, a message stating so is shown instead.	
Step 2	Click Update Version for the logical device that you want to update to open the Update Image Version dialog box.	
Step 3 Step 4	For the New Version, choose the software version to which you want to update. Click OK.	

本文的目標是對HA環境中的升級過程提供更為詳細的概述。

**附註**:本文檔假定目標ASA版本與現有的FXOS版本相容,因此在此情況下不需要升級 FXOS捆綁包。請始終檢查FXOS相容性矩陣,確認目標ASA版本是否與FXOS映像相容。如 果沒有,則按照FXOS發行說明中的說明先升級FXOS映像。

## 設定

### 網路圖表



在Firepower機箱管理器(FCM)UI中看到ASA1:

c	verview	Interfaces	Logical Devices	Security Engine	Platform :	Settings				System	Tools	Help	adm
										C Refre	sh Q	Add	Device
6	ASA41	i0-3	Standalone	Status: ok								<b>K</b> ].	1 5
	Applie	ation	Version		Manageme	nt IP	Gateway	Management Port	Status				
	ASA		9.6.2.1		10.0.0.50		10.0.0.1	Ethernet1/7	Online	Enabled 🔵	ロル		
	Po	ts: ata Interfaces:	Ethernet1/5 Ethern Ethernet1/8	et1/6		Attributes: Cluster Operational Status Management URL Management IP	not-applicable https://10.0.0.50/ 10.0.0.50						
			Ethernet1/8			Management IP	10.0.0.50						

### ASA2:

ĺ	Ove	rview	Interfaces	Logical Devices	Security Engine	Platform	Settings				System	Tools	Help	adm
											C Refres	h ()	Add (	Device
l		SA4150	-4	Standalone	Status: ok							1	<b>%</b>	/ 5
		Applica	tion	Version		Managem	ent IP	Gateway	Management Port	Status				
		ASA		9.6.2.1		10.0.0.53		10.0.0.1	Ethernet1/7	Online	Enabled 🜑 🕴	5		
		Ports Dat	a Interfaces:	Ethernet1/5 Ethern Ethernet1/8	et1/6		Attributes: Cluster Operational Status Management URL Management IP	not-applicable https://10.0.0.53/ 10.0.0.53						

### 任務1.從思科軟體下載頁面下載ASA映像

導覽至Downloads Home > Products > Security > Firewalls > Next-Generation Firewalls(NGFW),然後選擇硬體平台(例如4100、9000等),如下圖所示。

Download Software	Download Cart (0 items)							
Downloads Home > Products > Security > Firewalls > Next-Generation Firewalls (NGFW) > Firepower 4100 Series > Firepower 4150	Security Appliance							
elect a Software Type:								
Adaptive Security Appliance (ASA) Software Firepower Extensible Operating System Firepower Threat Defense Software								
Radware Virtual Defense Pro (vDP)								

### 任務2.將ASA映像上傳到Firepower機箱管理器

將ASA映像上傳到Firepower機箱。可從Firepower機箱管理器(FCM)UI或FXOS命令列介面(CLI)執 行此操作。

方法1.從FCM UI上傳ASA映像。

導航到System > Updates。選擇Upload Image,指定檔名並選擇Upload:

				1
			System	Tools Help admin
	Configuration	Licensing 2	Updates	User Management
	C	Refresh 3 U	pload Image	Filter ×
Upload Image		?×	e	
4 Select File : Choose File cisco-asa.9.6	0.2.3.SPA.csp	1	5	<b>M</b> 0
5	Upload	Cancel 1	6	<b>H</b>

方法2.從FXOS CLI上傳ASA映像。

您可以從FTP、SCP、SFTP或TFTP伺服器上傳映像。要驗證機箱管理介面和遠端伺服器之間的連 線,請執行以下操作:

FPR4100# connect local-mgmt
FPR4100(local-mgmt)# ping 10.48.40.70
PING 10.48.40.70 (10.48.40.70) from 10.62.148.88 eth0: 56(84) bytes of data.
64 bytes from 10.48.40.70: icmp\_seq=1 ttl=61 time=34.4 ms
64 bytes from 10.48.40.70: icmp\_seq=2 ttl=61 time=34.3 ms
64 bytes from 10.48.40.70: icmp\_seq=3 ttl=61 time=34.3 ms **若要傳輸ASA映像,請導航到此範圍並運行download image命令**:

FPR4100# scope ssa
FPR4100 /ssa # scope app-software
FPR4100 /ssa/app-software # download image ftp://ftp\_username@ 10.48.40.70/ciscoasa.9.6.2.3.SPA.csp
Password:

若要監控映像傳輸進度,請執行show download-task detail命令:

FPR4100 /ssa/app-software # show download-task detail

Downloads for Application Software: File Name: cisco-asa.9.6.2.3.SPA.csp Protocol: Ftp Server: 10.48.40.70 Port: 0 Userid: anonymous Path: Downloaded Image Size (KB): 94214 Time stamp: 2016-12-08T10:21:56.775 State: Downloading Transfer Rate (KB/s): 450.784698 Current Task: downloading image cisco-asa.9.6.2.3.SPA.csp from 10.48.40.70(FSM-STAGE:sam:dme:ApplicationDownloaderDownload:Local)

您也可以使用以下命令驗證傳輸是否成功:

Dowr	nloads for Application Software	:				
	File Name	Protocol	Server	Port 	Userid 	State
有國	cisco-asa.9.6.2.2.SPA.csp <b>羽其他詳細資訊</b> :	Ftp	10.48.40.70		0 anonymous	Downloaded
FPR4	4100 /ssa/app-software # <b>show d</b>	ownload-tas	k fsm status exp	and		

File Name: cisco-asa.9.6.2.3.SPA.csp

FSM Status:

Affected Object: sys/app-catalogue/dnld-cisco-asa.9.6.2.3.SPA.csp/fsm Current FSM: **Download** Status: Success Completion Time: 2016-12-08T10:26:52.142 **Progress (%): 100** 

FSM Stage:

Order	Stage Name	Status	Try
1	DownloadLocal	Success	1
2	DownloadUnpackLocal	Success	1

#### ASA映像顯示在機箱儲存庫中:

FPR4100 /ssa/app-software # exit
FPR4100 /ssa # show app

Application:

Name	Version	Description	Author	Deploy Type	CSP Type	Is Default App
asa	9.6.2.1	N/A	cisco	Native	Application	No
asa	9.6.2.3	N/A	cisco	Native	Application	No

### 任務3.升級第一個ASA裝置

首先升級備用ASA裝置,如下圖所示:

System	Tools	Help	admin
C Refre	sh	Add D	evice
	ĺ	Updat	e version
Enabled	14. <i>17</i>		

指定新映像並選擇**確定**以開始升級:

-			
Application:	asa		
Current Version:	9.6.2.1		
New Version:	9.6.2.3	~	
		OK	Cancel

### 驗證

從FCM GUI升級ASA的進度:

c	verview	Interfaces	Logical Devices	Security Engine	Platform	Settings				System Too
										C Refresh
6	ASA4150	-4	Standalone	Status: ok						
	Applica	tion	Version		Managem	ent IP	Gateway	Management Port	Status	
1	ASA		9.6.2.1		10.0.0.53		10.0.0.1	Ethernet1/7	C updating	(tublet 🕒 🎠 /
	Ports	st ta Interfaces:	Ethernet1/5 Ethern Ethernet1/8	et1/6		Attributes: Cluster Operational Status Management URL Management IP	: not-applicable : https://10.0.0.53/ : 10.0.0.53			

1-2分鐘後,FCM UI顯示:

0	verview	Interfaces	Logical Devices	Security Engine	Platform 9	Settings				System	Too	ds
										C Refr	esh	0
6	ASA4150	H4	Standalone	Status: ok								
	Applica	tion	Version		Manageme	ent IP	Gateway	Management Port	Status			
ŝ	ASA		9.6.2.3		10.0.0.53		10.0.0.1	Ethernet1/7	B update-succeeded	Enabled G	Π,	÷
	Ports	92 C				Attributes:						
	Dat	ta Interfaces:	Ethernet1/5 Ethern	et1/6		Cluster Operational Status Management URL	https://10.0.0.53/					
			Ethernet1/8			Management IP	10.0.0.53					
P												

#### ASA模組重新載入:

Ove	rview Interfaces	Logical Devices	Security Engine	Platform Settings			
	ASA4150-4	Standalone	Status: ok				
	Application	Version		Management IP	Gateway	Management Port	Status
	ASA	9.6.2.3		10.0.0.53	10.0.0.1	Ethernet1/7	Security module not responding
	Ports: Data Interfaces:	Ethernet1/5 Ethern Ethernet1/8	et1/6	Attributes: Cluster Operational Status Management URL Management IP	: not-applicable : https://10.0.0.53/ : 10.0.0.53		

#### 從Firepower機箱CLI升級ASA的過程。

CLI顯示邏輯裝置(ASA)重新啟動。從以下輸出中的模組引導CLI執行整個升級過程:

```
asa/sec/stby(config)#
[screen is terminating]
Disconnected from asa console!
Firepower-module1>
INIT: SwitchingStopping OpenBSD Secure Shell server: sshdstopped /usr/sbin/sshd (pid 5738)
Stopping Advanced Configuration and Power Interface daemon: stopped /usr/sbin/acpid (pid 5742)
acpid: exiting
acpid.
Stopping system message bus: dbus.
Stopping ntpd: stopped process in pidfile '/var/run/ntp.pid' (pid 6186)
done
Stopping crond: OK
Deconfiguring network interfaces... done.
Sending all processes the TERM signal...
SIGKILL_ALL will be delayed for 1 + 5 secs
Sending all processes the KILL signal...
Deactivating swap...
Unmounting local filesystems...
Rebooting... [ 1679.605561] Restarting system.
Cisco Systems, Inc.
Configuring and testing memory..
Cisco Systems, Inc.
Configuring and testing memory..
Configuring platform hardware...
Bios Version : FXOSSM1.1.2.1.3.031420161207
Platform ID : FXOSSM1
Processor(s) Intel(R) Xeon(R) CPU E5-2699 v4 @ 2.20GHz
```

Total Memory = 256 GB Effective Memory = 256 GB Memory Operating Speed 2400 Mh Please wait, preparing to boot .. ..... UEFI Interactive Shell v2.0. UEFI v2.40 (American Megatrends, 0x0005000B). Revision 1.02 Mapping table fs0: Alias(s):HD17a65535a1:;blk1: PciRoot(0x0)/Pci(0x1F,0x2)/Sata(0x0,0xFFFF,0x0)/HD(1,MBR,0x000EC692,0x800,0xEE6800) blk0: Alias(s): PciRoot(0x0)/Pci(0x1F,0x2)/Sata(0x0,0xFFFF,0x0) blk2: Alias(s): PciRoot(0x0)/Pci(0x1F,0x2)/Sata(0x0,0xFFFF,0x0)/HD(2,MBR,0x000EC692,0xEE7000,0x3BA000) blk3: Alias(s): PciRoot(0x0)/Pci(0x1F,0x2)/Sata(0x0,0xFFFF,0x0)/HD(3,MBR,0x000EC692,0x12A1000,0x950000) blk4: Alias(s): PciRoot(0x0)/Pci(0x1F,0x2)/Sata(0x0,0xFFFF,0x0)/HD(4,MBR,0x000EC692,0x1BF1000,0x2CD20800) blk5: Alias(s): PciRoot(0x0)/Pci(0x1F,0x2)/Sata(0x0,0xFFFF,0x0)/HD(4,MBR,0x000EC692,0x1BF1000,0x2CD20800)/HD(1,M BR,0x00000000,0x1BF1800,0x5D22000) blk6: Alias(s): PciRoot(0x0)/Pci(0x1F,0x2)/Sata(0x0,0xFFFF,0x0)/HD(4,MBR,0x000EC692,0x1BF1000,0x2CD20800)/HD(2,M BR, 0x0000000, 0x7914000, 0x26FFD800) To launch ROMMON. CpuFrequency = 2200002 KHz Cisco FXOSSM1 Blade Rommon 1.2.1.3, Mar 14 2016 12:11:29 Platform: SSPXRU INFO: enic\_identify: Enabling Cruz driver... INFO: enic\_identify: Cruz driver enabled. INFO: init\_spi\_interface: HSFS\_BERASE\_4K. INFO: enic\_init: bar[0].vaddr 0xc6e00000. INFO: enic\_init: bar[2].vaddr 0xc6e10000. INFO: enic\_init: eNic port MTU is 1500. INFO: enic\_init: eNic bsize 1500 ring size 512. INFO: enic\_init: Waiting for Cruz link... INFO: enic\_init: Cruz link detected. INFO: nb\_eth\_app\_init: MAC address for interface 0: 00 15 a5 01 01 00 INFO: nb\_eth\_app\_init: IP address 127.128.1.254 Start communicating with MIO in blade slot 1... INFO: Allocated 1000 bytes of memory for cmd at 0x78a7d018. INFO: Allocated 1000 bytes of memory for status at 0x76d34918. INFO: Allocated 196608 bytes of memory for key file at 0x76d03018. INFO: Status code 1: 'rommon initialize is completed'. INFO: tftp\_open: '/rommon/status\_1.txt'@127.128.254.1 via 127.128.254.1 ! INFO: nb\_tftp\_upload: 31 bytes sent. tftpget 0x78a7d018 1000 INFO: tftp\_open: '/rommon/command\_1.txt'@127.128.254.1 via 127.128.254.1 Received 154 bytes WARNING: retrieve\_mio\_cmd\_info: Invalid checksum 0x0. tftpget 0x76d03018 196608 INFO: tftp\_open: 'rommon/key\_1.bin'@127.128.254.1 via 127.128.254.1 Received 131072 bytes INFO: Status code 8: 'rommon succeeds to retrieve key file'.

INFO: tftp\_open: '/rommon/status\_1.txt'@127.128.254.1 via 127.128.254.1 INFO: nb\_tftp\_upload: 31 bytes sent. INFO: Primary keys in flash are up-to-date. INFO: Backup keys in flash are up-to-date. continue check local image the image file path: installables/chassis/fxos-lfbff-k8.9.6.2.2.SPA the image file name only: fxos-lfbff-k8.9.6.2.2.SPA local\_image\_file: fs0:fxos-lfbff-k8.9.6.2.2.SPA INFO: File 'fs0:fxos-lfbff-k8.9.6.2.2.SPA' has 104831328 bytes. local\_image\_file\_size 104831328 Found image fs0:fxos-lfbff-k8.9.6.2.2.SPA in local storage, boot local image. set pboot\_image fxos-lfbff-k8.9.6.2.2.SPA INFO: File 'fs0:fxos-lfbff-k8.9.6.2.2.SPA' has 104831328 bytes. INFO: 'fs0:fxos-lfbff-k8.9.6.2.2.SPA' has 104831328 bytes INFO: Booting LFBFF image... INFO: Status code 7: 'rommon about to verify image signature from local disk'. INFO: tftp\_open: '/rommon/status\_1.txt'@127.128.254.1 via 127.128.254.1 INFO: nb\_tftp\_upload: 31 bytes sent. INIT: version 2.88 booting Starting udev Configuring network interfaces... done. Populating dev cache rw console=ttyS0,38400 loglevel=2 auto kstack=128 reboot=force panic=1 ide\_generic.probe\_mask=0x1 ide1=noprobe pci=nocrs processor.max\_cstate=1 iommu=pt platform=sspxru boot\_img=disk0:/fxos-lfbff-k8.9.6.2.2.SPA ciscodmasz=786432 cisconrsvsz=2359296 hugepagesz=1g hugepages=24 ssp\_mode=0 No Partitions for HDD2.. Creating partition .. mount: special device /dev/sdb1 does not exist rw console=ttyS0,38400 loglevel=2 auto kstack=128 reboot=force panic=1 ide\_generic.probe\_mask=0x1 ide1=noprobe pci=nocrs processor.max\_cstate=1 iommu=pt platform=sspxru boot\_img=disk0:/fxos-lfbff-k8.9.6.2.2.SPA ciscodmasz=786432 cisconrsvsz=2359296 hugepagesz=1g hugepages=24 ssp\_mode=0 Create libvirt group Start libvirtd Service \* Starting virtualization library daemon: libvirtd no /usr/bin/dnsmasg found; none killed 2016-12-07 12:47:24.090+0000: 4373: info : libvirt version: 1.1.2 2016-12-07 12:47:24.090+0000: 4373: warning : virGetHostname:625 : getadd[ ok ]failed for 'ciscoasa': Name or service not known Disable the default virtual networks Network default destroyed Done with libvirt initialization rw console=ttyS0,38400 loglevel=2 auto kstack=128 reboot=force panic=1 ide\_generic.probe\_mask=0x1 ide1=noprobe pci=nocrs processor.max\_cstate=1 iommu=pt platform=sspxru boot\_img=disk0:/fxos-lfbff-k8.9.6.2.2.SPA ciscodmasz=786432 cisconrsvsz=2359296 hugepagesz=1g hugepages=24 ssp\_mode=0 rw console=ttyS0,38400 loglevel=2 auto kstack=128 reboot=force panic=1 ide\_generic.probe\_mask=0x1 ide1=noprobe pci=nocrs processor.max\_cstate=1 iommu=pt platform=sspxru boot\_img=disk0:/fxos-lfbff-k8.9.6.2.2.SPA ciscodmasz=786432 cisconrsvsz=2359296 hugepagesz=1g hugepages=24 ssp\_mode=0 Turbo Boost is UNSUPPORTED on this platform. Configuration Xml found is /opt/cisco/csp/applications/configs/cspCfg\_ciscoasa.9.6.2.3\_asa\_001\_JAD201200C64A93395.xml INIT: Entering runlevel: 3 rw console=ttyS0,38400 loglevel=2 auto kstack=128 reboot=force panic=1 ide\_generic.probe\_mask=0x1 ide1=noprobe pci=nocrs processor.max\_cstate=1 iommu=pt platform=sspxru boot\_img=disk0:/fxos-lfbff-k8.9.6.2.2.SPA ciscodmasz=786432 cisconrsvsz=2359296 hugepagesz=1g hugepages=24 ssp\_mode=0 Starting system message bus: dbus. Starting OpenBSD Secure Shell server: sshd

generating ssh RSA key... generating ssh ECDSA key... generating ssh DSA key... done. Starting Advanced Configuration and Power Interface daemon: acpid. acpid: starting up acpid: 1 rule loaded acpid: waiting for events: event logging is off Starting ntpd: done Starting crond: OK Cisco Security Services Platform Type ? for list of commands Firepower-module1> Firepower-module1>show services status Services currently running: Feature | Instance ID | State | Up Since \_\_\_\_\_ asa | 001\_JAD201200C64A93395 | **RUNNING** | :00:00:20 Firepower-module1>

#### 整個過程大約需要5分鐘。

您還可以從機箱CLI使用show app-instance命令驗證ASA應用程式是否已聯機運行:

#### ASA模組相互發現:

Detected an Active mate Beginning configuration replication from mate. End configuration replication from mate.

asa/sec/stby>

#### 驗證

FPR4100# connect module 1 console
Telnet escape character is '~'.
Trying 127.5.1.1...
Connected to 127.5.1.1.
Escape character is '~'.

CISCO Serial Over LAN: Close Network Connection to Exit

```
Firepower-module1> connect asa
asa> enable
Password:
asa/sec/stby# show failover
Failover On
Failover unit Secondary
Failover LAN Interface: fover Ethernet1/8 (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 2 of 1041 maximum
MAC Address Move Notification Interval not set
Version: Ours 9.6(2)3, Mate 9.6(2)1
Serial Number: Ours FLM2006EQFW, Mate FLM2006EN9U
Last Failover at: 12:48:23 UTC Dec 7 2016
        This host: Secondary - Standby Ready
                Active time: 0 (sec)
                slot 0: UCSB-B200-M3-U hw/sw rev (0.0/9.6(2)3) status (Up Sys)
                  Interface INSIDE (192.168.0.2): Normal (Not-Monitored)
                  Interface OUTSIDE (192.168.1.2): Normal (Monitored)
                  Interface management (0.0.0.0): Normal (Waiting)
        Other host: Primary - Active
                Active time: 10320 (sec)
                slot 0: UCSB-B200-M3-U hw/sw rev (0.0/9.6(2)1) status (Up Sys)
                  Interface INSIDE (192.168.0.1): Normal (Not-Monitored)
                  Interface OUTSIDE (192.168.1.1): Normal (Monitored)
                  Interface management (10.0.0.50): Normal (Waiting)
```

要確認ASA裝置之間的正確故障轉移操作,請運行以下命令:

- show conn count
- show xlate count
- show crypto ipsec sa

### 任務4.升級第二台ASA裝置

切換故障轉移對等項並升級主ASA:

asa/sec/stby# failover active

Switching to Active asa/sec/act#

指定新映像並開始升級:

0	erview	Interfaces	Logical Devices	Security Engine	Platform Settings			System Tools Help
	ASA4150	⊦3	Standalone	Status: ok				C Refresh G Add
П	Applica	tion	Version		Management IP	Gateway	Management Port	Status
	ASA		9.6.2.1		10.0.0.50	10.0.0.1	Ethernet1/7	🔞 online 💷 🎼 🏞
	Port Da	s: ta Interfaces:	Ethernet1/5 Ethernet1/8	et1/6	Attributes: Cluster Operation Management URL Management IP	al Status : not-applicable : https://10.0.0.50/ : 10.0.0.50		
						Update image version Application: asa Current Version: 9.6.2.1 New Version: 9.6.2.3 3	® X	

5分鐘後,升級完成。

### 驗證

#### 從機箱CLI驗證ASA應用已聯機:

FPR4100# scope ssa								
FPR4100 /ssa # <b>show app-instance</b>								
Application Name	Slot ID	Admin State	Operational State	Running Version :	Startup			
Version Cluster Oper State								
asa	1	Enabled	Online	9.6.2.3	9.6.2.3			
Not Applicable								

#### 從ASA模組驗證故障切換操作:

```
asa/pri/stby# show failover
Failover On
Failover unit Primary
Failover LAN Interface: fover Ethernet1/8 (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 2 of 1041 maximum
MAC Address Move Notification Interval not set
Version: Ours 9.6(2)3, Mate 9.6(2)3
Serial Number: Ours FLM2006EN9U, Mate FLM2006EQFW
Last Failover at: 14:35:37 UTC Dec 7 2016
        This host: Primary - Standby Ready
                Active time: 0 (sec)
                slot 0: UCSB-B200-M3-U hw/sw rev (0.0/9.6(2)3) status (Up Sys)
                  Interface INSIDE (192.168.0.2): Normal (Not-Monitored)
                  Interface OUTSIDE (192.168.1.2): Normal (Waiting)
                  Interface management (0.0.0.0): Normal (Waiting)
        Other host: Secondary - Active
                Active time: 656 (sec)
                slot 0: UCSB-B200-M3-U hw/sw rev (0.0/9.6(2)3) status (Up Sys)
                  Interface INSIDE (192.168.0.1): Failed (Not-Monitored)
```

Interface OUTSIDE (192.168.1.1): Normal (Waiting) Interface management (10.0.0.50): Normal (Waiting)

Statefu	l Failover :	Logical	Update S	tatistics		
	Link : fov	er Ether	net1/8 (1	up)		
	Stateful O	bj xm	it	xerr	rcv	rerr
	General	7		0	8	0

• • •

#### 切換回故障切換以具有主/主用、輔助/備用:

asa/pri/stby# failover active

Switching to Active asa/pri/act#

## 疑難排解

目前尚無適用於此組態的具體疑難排解資訊。

## 相關資訊

- FXOS配置指南
- FXOS-ASA相容性指南
- <u>《FXOS發佈說明》</u>
- <u>技術支援與文件 Cisco Systems</u>