upgrade van een ASA HA-paar op FirePOWERapplicaties

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Inleiding

In dit document wordt de upgradeprocedure beschreven van een hoge beschikbaarheid (HA) paar adaptieve security applicaties (ASA's) die op hardware-apparatuur zijn geïnstalleerd.

Voorwaarden

Vereisten

Cisco raadt kennis van de volgende onderwerpen aan:

- ASA-beheer
- ASA failover

Gebruikte componenten

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

- 2 x FP4150-uitvoeringscode 2.0.1-86
- ASA 9.6.2.1 (bijgewerkt tot 9.6.2.3)

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 levend is, zorg er dan voor dat u de mogelijke impact van om het even welke opdracht begrijpt.

Achtergrondinformatie

De upgradeprocedure van een ASA-module die is geïnstalleerd op FirePOWER-apparaten (FPR4100, FPR9300, enz.) wanneer HA is geconfigureerd (Active/Standby of Active/Active) wordt beschreven in de configuratiegids van FirePOWERXtensible Operating System (FXOS). Hier is het relevante deel:



Het doel van dit document is een wat gedetailleerder overzicht te geven van het upgradeproces in een HA-omgeving.

Opmerking: Het document gaat ervan uit dat de beoogde ASA-versie compatibel is met de FXOS-versie die bestaat, zodat een FXOS-bundelupgrade in dit scenario niet nodig is. Controleer altijd de FXOS-compatibiliteitsmatrix om te bevestigen of de ASA-doelversie compatibel is met de FXOS-afbeelding. Als dit niet het geval is, bevestig dan eerst de FXOS-afbeeldingen zoals beschreven in de FXOS-release Notes.

Configureren

Netwerkdiagram

1	SSP1 (J	ASA1)
	192.168.0.1/24 (Active)	E1/8 (fover) 1.1.1.1 (Active)
	192.168.0.2/24 (Standby)	1.1.1.2 (Standby) E1/8 (fover)
	E1/5 SSP2 (AS	E1/6

ASA1 zoals gezien in Firepower Chassis Manager (FCM) UI:

•	Overvi	w Interfaces	Logical Devices	Security Engine	Platform S	Settings				System	Tools	Help	adm
										C Refre	h (Add	Device
1	ASA	150-3	Standalone	Status: ok								F i .	/ 5
	Ap	lication	Version		Manageme	nt IP	Gateway	Management Port	Status				
ľ	a ASI		9.6.2.1		10.0.0.50		10.0.0.1	Ethernet1/7	Online	(Indied)	ų »		
		Ports:				Attributes:	not-applicable						
		Data Interfaces:	Ethernet1/5 Ethern Ethernet1/8	et1/6		Management URL	https://10.0.0.50/						
Ľ			E G HE HE LO U			rungement ir	. 10.0.0.00						

ASA2:

	Over	view Interfac	ces Logical Devices	Security Engine	Platform Settings				System	Tools	Help	adm
									C Refres	h 0	Add	Device
	≜ AS	A4150-4	Standalone	Status: ok						1	η.	1 5
		pplication	Version		Management IP	Gateway	Management Port	Status				
	8 A	SA	9.6.2.1		10.0.0.53	10.0.0.1	Ethernet1/7	online	Enabled 📦 🦻	$\langle \rangle$		
I		Ports:			Attributes:							
		Data Interface	es: Ethernet1/5 Ethern	et1/6	Cluster Operational Stat Management URL	: https://10.0.0.53/						
l			Ethernet1/8		Management IP	: 10.0.0.53						

Task 1. Download de ASA Images van Cisco Software Download Pages

Navigeer naar downloads Home > Producten > Security > Firewalls > Firewalls van de volgende generatie (NGFW) en selecteer het HW-platform (bijvoorbeeld 4100, 9000 etc.) zoals in de afbeelding.



Task 2. De ASA-afbeeldingen uploaden naar de Firepower Chassis Manager

Upload de ASA beelden naar FirePOWER chassis. Dit kan worden gedaan vanuit Firepower Chassis Manager (FCM) UI of de FXOS Opdracht Line Interface (CLI).

Methode 1. Upload de ASA beelden van FCM UI.

Navigeer naar **systeem > updates.** Selecteer **Afbeelding uploaden**, specificeer de bestandsnaam en selecteer **Upload:**

				1
		L	System	Tools Help admin
	Configuration	Licensing 2	Updates	User Management
	C	Refresh 3 U	pload Image	Filter ×
Upload Image		?×	e	
4 Choose File cisco-asa.9.6	6.2.3.SPA.csp	1	5	
5	Upload	Cancel 10	6	Ĩ

Methode 2. Upload de ASA beelden van FXOS CLI.

U kunt de afbeelding uploaden vanaf een FTP-, SCP-, SFTP- of TFTP-server. Om de connectiviteit tussen de chassisbeheerinterface en de externe server te verifiëren, doet u zoals aangegeven:

```
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
```

Om het ASA-beeld over te brengen navigeer naar deze scope en voer de opdracht downloadafbeelding uit:

```
FPR4100# scope ssa
FPR4100 /ssa # scope app-software
FPR4100 /ssa/app-software # download image ftp://ftp_username@ 10.48.40.70/cisco-
asa.9.6.2.3.SPA.csp
Password:
```

U kunt de voortgang bij de overdracht van de afbeelding **bewaken** door **de** opdracht **detail downloaden**:

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)
```

U kunt deze opdracht ook gebruiken om de succesvolle overdracht te controleren:

File Nat	ne	Protocol	Server	Port	Userid	State
cisco-as Voor meer i	sa.9.6.2.2.SPA.csp nformatie:	 Ftp	10.48.40.70		0 anonymous	Downloaded
FPR4100 /ssa	a/app-software # show	download-ta	sk fsm status e	xpand		
File Name: o	cisco-asa.9.6.2.3.SPA	csp				
FSM Stat	us:					
Affe Curr Stat Comp Pro g	ected Object: sys/app cent FSM: Download cus: Success oletion Time: 2016-12 gress (%): 100	-catalogue/d: -08T10:26:52	nld-cisco-asa.9 .142	.6.2.3.SP	PA.csp/fsm	
FSM	Stage:					
Orde	er Stage Name		Sta	tus	Try	
	DownloadLocal DownloadUnpackLoc	al	Suc	cess cess	1 1	
1 2						

FPR4	100 /ssa #	show app						
Appl	ication:							
	Name	Version	Description	Author	Deploy Type	CSP Type	Is Defau	lt App
	asa	9.6.2.1	N/A	cisco	Native	Application	No	
	asa	9.6.2.3	N/A	cisco	Native	Application	No	

Task 3. upgrade van de eerste ASA-eenheid

Upgradeer eerst de Standby ASA-unit zoals in de afbeelding getoond:

System	Tools	Help	admin
C Refre	sh	Add D	evice
	()	Updat	e version
Enabled	¶ →		

Specificeer de nieuwe afbeelding en selecteer **OK** om de upgrade te kunnen starten:

New Version: 9.6.2.3	Update image Application:	asa 9.6.2.1		?×
	New Version:	9.6.2.3	~	

Verificatie

De ASA upgrade voortgang vanaf FCM GUI:

0	verview	Interfaces	Logical Devices	Security Engine	Platform	Settings				System Too
										C Refresh
6	ASA4150	-4	Standalone	Status: ok						
	Applica	tion	Version		Manageme	int IP	Gateway	Management Port	Status	
6	ASA		9.6.2.1		10.0.0.53		10.0.0.1	Ethernet1/7	C updating	Enabled 🔿 🌠 🗸
	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			

Na 1-2 minuten toont de FCM UI:

0	verview	Interfaces	Logical Devices	Security Engine	Platform 9	Settings				System	Тоо	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												

De ASA module herladen:

0	verview	Interfaces	Logical Devices	Security Engine	Platform S	ettings			
G	ACAAISO		Standalone	Status: ok					
-	A944130	•	Standarone	Status, UK					
	Applicati	lon	Version		Managemer	t IP	Gateway	Management Port	Status
8	ASA		9.6.2.3		10.0.0.53		10.0.0.1	Ethernet1/7	Security module not responding
	Ports				,	attributes:			
	Data	Interfaces:	Ethernet1/5 Ethern	et1/6		Cluster Operational Status : Management URL	https://10.0.0.53/		
			Ethernet1/8			Management IP	10.0.0.53		
E									

Het ASA-upgradeproces van Firepower Chassis CLI.

De CLI laat zien dat het logische toestel (ASA) opnieuw start. Het gehele upgradeproces vanaf de module Opstarten CLI in deze uitvoer:

```
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 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 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 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/dnsmasq 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 idel=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
_____
                                         _____
    001_JAD201200C64A93395 | RUNNING | :00:00:20
asa
Firepower-module1>
```

De hele procedure duurt ongeveer vijf minuten.

U kunt ook de opdracht **Show app-Instance** van de chassis CLI gebruiken om te verifiëren dat de ASA toepassing **online** is gekomen:

FPR4100 # scope ssa FPR4100 /ssa # show a Application Name Version Cluster Oper	app-instance Slot ID State	Admin State	Operational State	Running Version	Startup
asa Not Applicabl	1	Enabled	Online	9.6.2.3	9.6.2.3

De ASA modules ontdekken elkaar:

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

asa/sec/stby>

Verificatie

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)
```

. . .

Om te bevestigen dat de ASA-eenheden een goede failover-werking hebben, voert u deze opdrachten uit:

- show conn count
- autopas
- show crypto ipsec sa

Task 4. upgrade van de tweede ASA-eenheid

Schakel de overvalpeers over en upgrade van de primaire ASA:

```
asa/sec/stby# failover active
```

```
Switching to Active asa/sec/act#
```

Specificeer de nieuwe afbeelding en start de upgrade:

0	verview	Interfaces	Logical Devices	Security Engine	Platform Settings			s	ystem T	ools	Help
	ASA4150	-3	Standalone	Status: ok					C Refresh	0	Add
	Applica	tion	Version		Management IP	Gateway	Management Port	Status			
8	ASA		9.6.2.1		10.0.0.50	10.0.0.1	Ethernet1/7	🛞 online 🌘	inabled 🔿 🎋	\rightarrow	
	Port: Da	R ta Interfaces:	Ethernet1/5 Ethern 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 2	▼ OK Cancel				

Na 5 minuten is de upgrade voltooid.

Verifiëren

Controleer vanuit het chassis CLI of de ASA applicatie online is gekomen:

FPR4100# scope ssa FPR4100 /ssa # show app-instance 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									

Van de ASA module verifieer de overvalbediening:

```
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 Interface	OUTSIDE manageme	(192.168.1 ent (10.0.0	.1): Normal).50): Norma	. (Waiting) al (Waiting)
Stateful	Failover Link : fov	Logical U er Ethern	pdate Sta et1/8 (up	atistics		
	Stateful O	bj xmi	t z	xerr	rcv	rerr
	General	7	(C	8	0

Schakel de failover terug om Primair/Active, Secundair/Standby te hebben:

```
asa/pri/stby# failover active
    Switching to Active
asa/pri/act#
```

Problemen oplossen

Er is momenteel geen specifieke troubleshooting-informatie beschikbaar voor deze configuratie.

Gerelateerde informatie

- FXOS-configuratiegids
- FXOS-ASA compatibiliteitsgids
- Opmerkingen over FXOS-release
- Technische ondersteuning en documentatie Cisco Systems