

FDM ةطساوب ةرادملا FTD HA ةقورت

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ةمدقملا

رفوت ةلاح في Cisco نم نمالا ةيامحل راج ديدت ةيامح ةقورت ةيلمع دنتسملا اذه فصوي FirePOWER. ةزهجأ ريدم ةطساوب ةرادملا لاج

ةيساسالا تابلطتملا

تابلطتملا

ةيلاتل عيضاوملاب ةفرعم كئيدل نوكت نأب Cisco في صوت:

- ةئيهتلاو (HA) يلاعلا رفوتلا ميهافم
- Cisco Secure Firepower Device Manager (FDM) نئوكت
- Cisco نم (FTD) ةيامحل راج ديدت نع نمالا عافدل نئوكت

ةمدختسملا تانوكملا

يرهاظلا Cisco FTD نم 7.2.8 رادصإلا لئحت دنتسملا اذه في ةدراولا تامولعملا دنتست

ةصاخ ةيلمعم ةئيب في ةدوجوملا ةزهجالا نم دنتسملا اذه في ةدراولا تامولعملا عاشنإ مت تناك اذا. (يضارتفا) حوسمم نئوكتب دنتسملا اذه في ةمدختسملا ةزهجالا عيمج تادب رما يال لمتمحملا ريثأتلل كمهف نم دكأتف، لئغشتلا دي قكتك بش

ةماع ةرظن

في. ةرم لك في دحاو ريظن ةيقرت في (FDM) لوحمل تانايب ةدعاق ةرادا لمع ةقيرط لثمتت
ءب لبق لشفل زواجت اءارجا متي، "طشن" ةلاح في م، "ءادعتسال" ةلاح في م، ةيادل
ةطشنل ةيقرتل.

ةيساس اءمولعم

ةيقرتل لبق software.cisco.com نم ةيقرتل ةمزح لي زنت بجي.

طشنل FTD في show high-availability رمالا لي غشتب مق، (CLI) رمالا رطس ةهجاو لي
HA ةلاح نم ققحتلل.

```
> show high-availability config
```

```
Failover On
```

```
Failover unit Primary
```

```
Failover LAN Interface: failover-link GigabitEthernet0/2 (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 311 maximum
```

```
MAC Address Move Notification Interval not set
```

```
failover replication http
```

```
Version: Ours 9.18(3)53, Mate 9.18(3)53
```

```
Serial Number: Ours 9A1QUNFWPK1, Mate 9A45VNEHB5C
```

```
Last Failover at: 11:57:26 UTC Oct 8 2024
```

```
    This host: Primary - Active
```

```
        Active time: 507441 (sec)
```

```
        slot 0: ASAv hw/sw rev (/9.18(3)53) status (Up Sys)
```

```
            Interface diagnostic (0.0.0.0): Normal (Waiting)
```

```
            Interface inside (192.168.45.1): Normal (Waiting)
```

```
            Interface outside (192.168.1.10): 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: 8 (sec)

Interface diagnostic (0.0.0.0): Normal (Waiting)

Interface inside (0.0.0.0): Normal (Waiting)

Interface outside (0.0.0.0): Normal (Waiting)

slot 1: snort rev (1.0) status (up)

slot 2: diskstatus rev (1.0) status (up)

ةيقرت ال عبات ف ،ةرهاظ اعاطخأ كانه نكت مل اذا

نيوكت ال

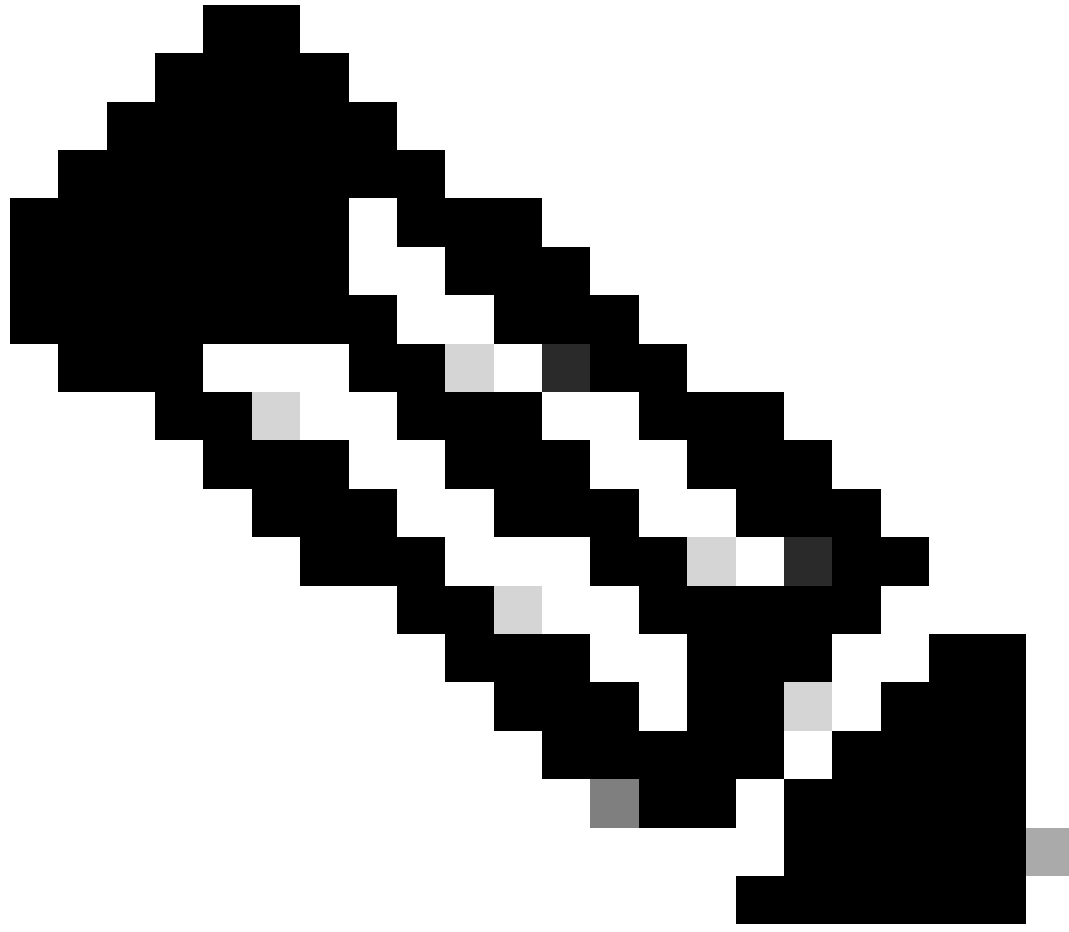
ةيقرت ال ةمزن لي محت 1. ةوطخ ال

- (GUI) ةيوسر ال م دختس مل ةهجاو مادختس اب FDM لى فTD ةيقرت ةمزن لي محت ب مق

بولطم ال رادصل ال او FTD زارط لى اادانتسا Cisco جمارب ع قوم نم اق بس م اارجل ال اذه لي زنت بجي
ماظن ال ةيقرت > تاثير دحت ال > زاوجل ال لى لقتنا

تاثير دحت

- Upload. ارتخأ م ث ،اقباس اهل لي زنت م تي ال ةروصل ال نع اثح ب حفصت



ةي طاي ت ح ال ا ة د ق ع ل ا و ة ط ش ن ل ا د ق ع ل ا ن م ل ك ي ل ع ة ر و ص ل ا ل ي م ح ت ب م ق : ة ط ح ال م

System Upgrade

Current version 7.2.5-208

i Important

This device is a peer in a high availability configuration. You must install upgrades in a precise order. For details, see [link](#)

There are no software upgrades available on the system.

Upload an upgrade file to install.

BROWSE

دادعتسالا صحف ليغشت

دادعتسالا نم ققحت 2. ةوطخلا

ةيقرتلة عباتمل ةزهج ةزهجال تناك اذا ام دادعتسالا صحف تايلمع دكؤت


- ةيقرتلة ةزهج صحف ليغشت رتخأ

System Upgrade

Current version 7.2.5-208

i Important

This device is a peer in a high availability configuration. You must install upgrades in a precise order. For details, see [link](#)

File **Cisco_FTD_Upgrade-7.2.8-25.sh.REL....**  [Replace file](#)
14 Oct 2024 05:06 PM

Upgrade to **7.2.8-25**

Readiness Check **Not Performed Yet** | [Run Upgrade Readiness Check](#)

UPGRADE NOW


i Reboot required

System Upgrade


Current version 7.2.5-208

Important

This device is a peer in a high availability configuration. You must install upgrades in a precise order. For details, see [link](#)


File	Cisco_FTD_Upgrade-7.2.8-25.sh.REL....  Replace file
	14 Oct 2024 05:06 PM
Upgrade to	7.2.8-25


Readiness Check	Not Performed Yet	Run Upgrade Readiness Check
-----------------	-------------------	---


UPGRADE NOW  Reboot required

Important

This device is a peer in a high availability configuration. You must install upgrades in a precise order. For details, see [link](#)

File	Cisco_FTD_Upgrade-7.2.8-25.sh.REL....  Replace file
	14 Oct 2024 05:06 PM
Upgrade to	7.2.8-25

Readiness Check	 Please Wait...
-----------------	--

UPGRADE NOW  Reboot required


ةيقرت > ماظنلا لىلا لاقتنالال لالخ نم مدقتلا نم ققحتلا نكمي

System Upgrade

Current version 7.2.5-208

i Important

This device is a peer in a high availability configuration. You must install upgrades in a precise order. For details, see [link](#)

File **Cisco_FTD_Upgrade-7.2.8-25.sh.REL....**  | [Replace file](#)
14 Oct 2024 05:06 PM

Upgrade to **7.2.8-25**

Readiness Check **✓ Precheck Success** | [Run Upgrade Readiness Check](#)
14 Oct 2024 05:51 PM

UPGRADE NOW

i Reboot required

دادعتسالا صحف ليغشت

حاجنلا يه ةجيتننلاو FTD نم لك ي ف دادعتسالا نم ققحتلا لامكإ دن ةيقرتلا ءارجإ نكمي

HA ف FTD ةيقرت 3 ةوطخلا

- نآلا نيسحت ةقطقوطو fdm دادعتسإ ترتخأ

System Upgrade

Current version 7.2.5-208

i Important

This device is a peer in a high availability configuration. You must install upgrades in a precise order. For details, see [link](#)

File **Cisco_FTD_Upgrade-7.2.8-25.sh.REL....**  | [Replace file](#)
14 Oct 2024 05:06 PM

Upgrade to **7.2.8-25**

Readiness Check **✔ Precheck Success** | [Run Upgrade Readiness Check](#)
14 Oct 2024 05:51 PM

UPGRADE NOW

i Reboot required

نألا ةقورت

ةقورتلا ءدب لببق:

1. ماظنلا ةقورت هةف موقت يذلا تقولا سفن ي ف ماظن ءءاعتسا ءدبب موقت ال.
2. دةمءتلا ءءاعب اةقلا ماظنلا موقى . ةقورتلا ءانءا ماظنلا لةغشت ءءاعب موقت ال . اةرورض كلذ ناك اذا ، ةقورتلا ءانءا بسانملا تقولا ي ف .
3. رةغ ماظنلا لءع لىل ةقورتلا ءءءاقم يدؤى دق . ةقورتلا ءارج لةغشت فاقىب موقت ال . ماءءتسالا لببق .

ةقورتلا ءدب دنء ماظنلا نم كءورء لةءست مءى . زاءءلا دةمء ءءاعب مءت ، ءةبءءتلا لءمءءا ءءب .

Confirm System Upgrade



Before starting the upgrade:

1. Do not start a system restore at the same time as a system upgrade.
2. Do not reboot the system during the upgrade. The system automatically reboots at the appropriate time during upgrade if a reboot is necessary.
3. **Do not power off the device** during the upgrade. Interrupting the upgrade can leave the system in an unusable state.

You will be logged out of the system when the upgrade begins.
After the installation completes, the device will be rebooted.

UPGRADE OPTIONS

- Automatically cancel on upgrade failure and roll back to the previous version

CANCEL

CONTINUE

FTD لكل ةقيد 20 يلاوح ةيقرتلا قرغتست :ةظحال م

Expert لىل لىقن : /ngfw/var/log/sf/ دلجم نيسحتلا ي ف مدقت تصحف تنك عىطتسي، ي CLI في Modeand Enterprise 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-7.2.8.
```

```
root@firepower:/ngfw/var/log/sf/Cisco_FTD_Upgrade-7.2.8# ls -lrt
```

```
root@firepower:/ngfw/var/log/sf/Cisco_FTD_Upgrade-7.2.8# tail -f status.log
```

```
ui: Upgrade in progress: ( 8% done.22 mins to reboot). Preparing to upgrade... (200_pre/011_check_self.
```

```
ui: Upgrade in progress: ( 8% done.22 mins to reboot). Preparing to upgrade... (200_pre/015_verify_rpm.
```

```
ui: Upgrade in progress: ( 8% done.22 mins to reboot). Preparing to upgrade... (200_pre/100_check_dashb
```

```
ui: Upgrade in progress: ( 8% done.22 mins to reboot). Preparing to upgrade... (200_pre/100_get_snort_f
```

```
ui: Upgrade in progress: (12% done.21 mins to reboot). Preparing to upgrade... (200_pre/110_setup_upgra
```

```
ui: Upgrade in progress: (12% done.21 mins to reboot). Preparing to upgrade... (200_pre/120_generate_au
```

```
ui: Upgrade in progress: (12% done.21 mins to reboot). Preparing to upgrade... (200_pre/152_save_etc_sf
```

```
ui: Upgrade in progress: (79% done. 5 mins to reboot). Finishing the upgrade... (999_finish/999_zz_inst
```

```
ui: Upgrade in progress: (83% done. 4 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 (Mon Oct 14 12:01:26 2024):
```

```
System will reboot in 5 seconds due to system upgrade.
```

```
Broadcast message from root@firepower (Mon Oct 14 12:01:31 2024):
```

```
System will reboot now due to system upgrade.
```

```
Broadcast message from root@firepower (Mon Oct 14 12:01:39 2024):
```

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

ة.يناثال ءءءوالا ءيقرت

نم بولسأ ءاتفم ترتءأ كلذ ءعب؁ رفوت يلاءءا ءرتءأ: اطشن زاءءال اءه لءءل راوءألا ليدبت لكشب رورملاء ءءرء قءءت نم ءكأءو طشن لىل ربيءءلل ءءءوالا ءلاء رظءنا. ءمءاق ءاءءال ءءءل لىءءسءب مق مء. يءبب

ءمءءال ليمءءو؁ ءيءءال ءاءءءسالا لىل لوءءل لىءءسءل ءبءسالا ءاوءءال رء: ءيقرءال ءءءال نم قءءءال او؁ مءءءال ءبءارمو؁ زاءءال ءيقرءو

High Availability

Secondary Device: **Active**  Peer: **Standby**

ءيلاءال ءءءالا

High Availability

Primary Device: **Standby**  Peer: **Active**

ءيلاءال ءءءالا

ءلاء نم قءءءو (System Support Diagnostic-CLI) لىل لءءنا؁ (CLI) رماوالا رطس ءهءاو ي ف لىل لىل زواءء ءلاء ءاءءءسالا ءءو ي ف FTD ي لىل لىل زواءء CommandShow.

```
> system support diagnostic-cli
```

```
Attaching to Diagnostic CLI ... Press 'Ctrl+a then d' to detach.
```

```
Type help or '?' for a list of available commands.
```

```
primary_ha> enable
```

```
Password:
```

```
primary_ha# show failover state
```

State	Last Failure Reason	Date/Time
-------	---------------------	-----------

This host - Primary
Standby Ready None
Other host - Secondary
Active None

====Configuration State====

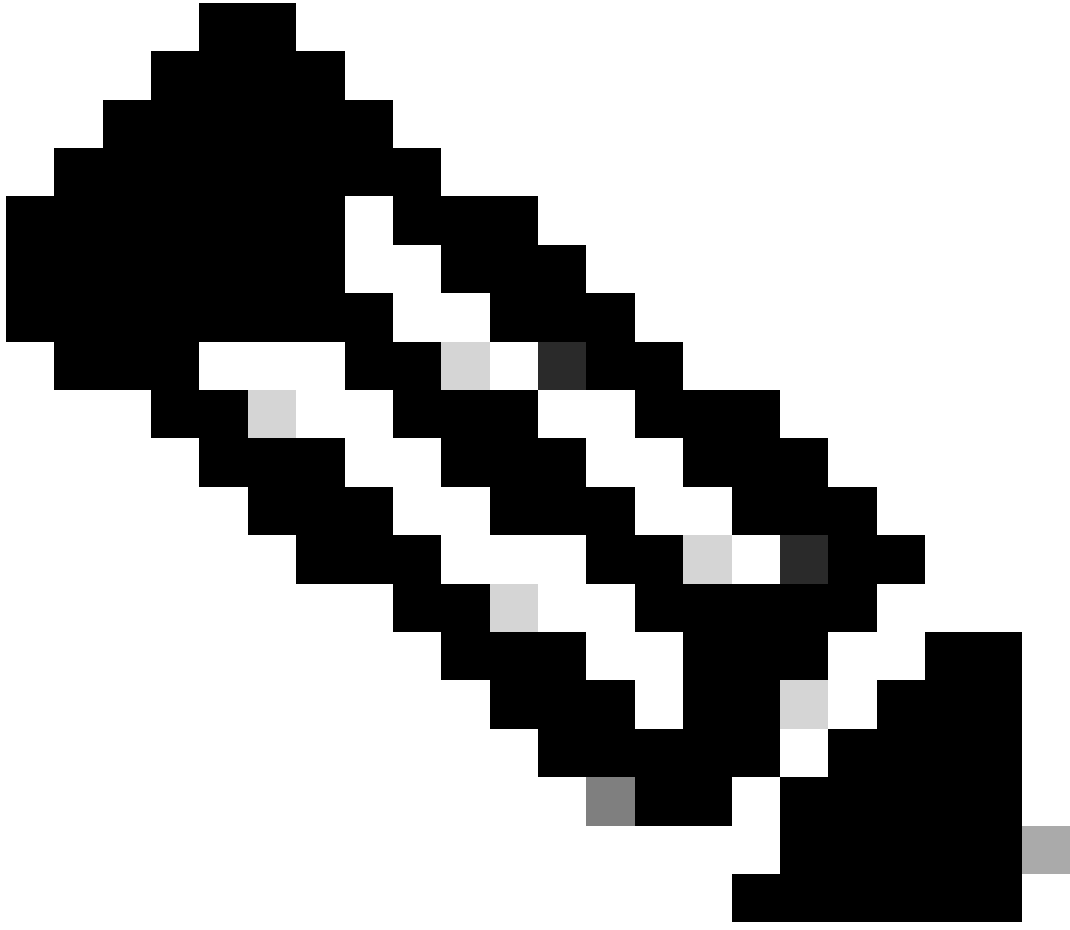
Sync Skipped - STANDBY

====Communication State====

Mac set

primary_ha#

(ي راي تخ) طشننلا ريظننلا لي دبت 4. ةوطخللا



ي تاي لمع ري ثأت ي أ هل نوكي نلف ،اطشن يوناثلا زاهجال ناك اذا :ةظحالم

يأ بقعت ىلع دعاست ةسرامم لصفأ وه "دادعتسال" ك ايوناثو اطشن ياساسألا زاهجال لعج نإ
ثدحي نأ نكمي لشف زواجت

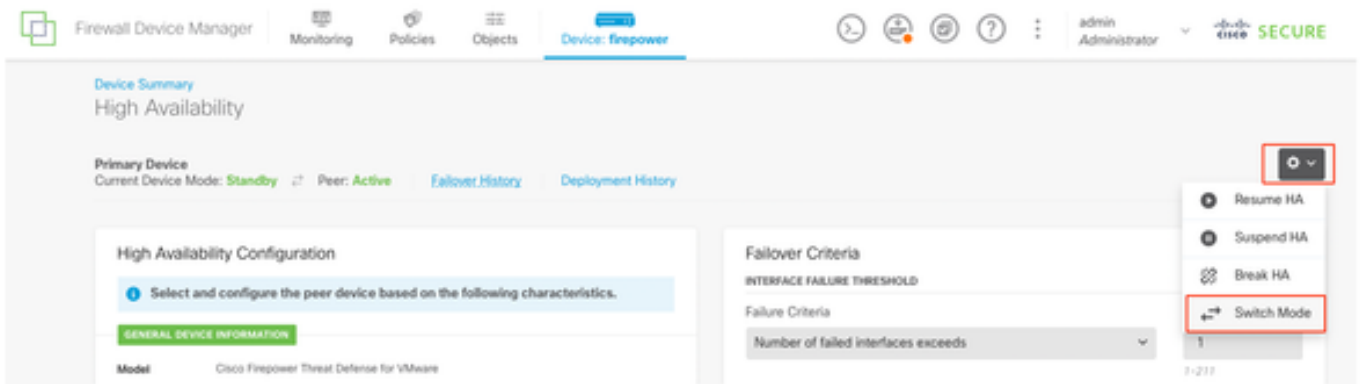
لشفال زواجت مادختسإ نكمي و ،دادعتسال اعضو يف نأل ال FTD Active نوكي ،ةلحال هذه يف
ال Active ىلإ ىرخأ ةرم هنييىعتل يوديال

- ةيلال عحاتإلا > ةزهجال ىلإ لقتنا



ةللاعال ةحاتإلا

- ChooseSwitch عضو.



لوحمللا عضو

- لشللال زوات ديكأتل قفاوم رتخأ.

Make This Device the Active Peer ? ×

Please check whether the active unit is currently running a deployment job. If you switch modes while a deployment job is in progress, the job will fail and you will lose your configuration changes.

Are you sure you want to switch modes to make this device the active unit?

CANCEL
OK

طشنلال ريظنلال

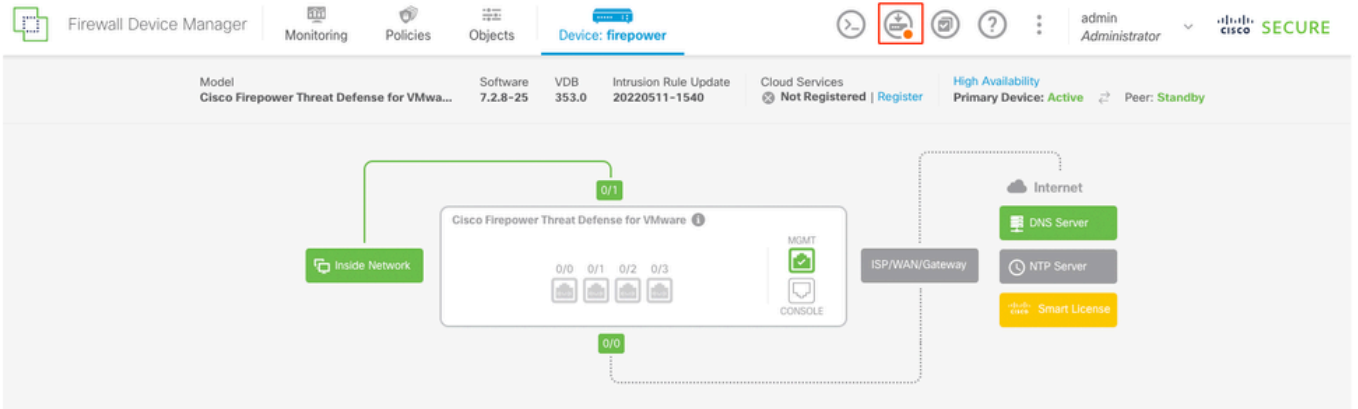
لش فال زواج تو ة قرتل ة ياهن ف HA ة لاج نم ققحتل



ةزهأل

يئاهنل رشنل 5. ةوطخل

- بيوتل ةمالع نمض نأل رشن قوف رقتل قيرط نع ةزهأل ةلج جهنل رشن ب مق ةيزوتل.



Pending Changes



✓ Last Deployment Completed Successfully

14 Oct 2024 06:26 PM. [See Deployment History](#)

Deployed Version (14 Oct 2024 06:26 PM)	Pending Version	LEGEND
Rule Update Version Edited: 20220511-1540		
lastSuccessSRUDate: 2024-10-08 06:15:04Z	2024-10-14 12:53:26Z	
-	lspVersions[1]: 20220511-1540	
VDB Version Edited: 353		
+ Snort Version Added: 3.1.21.800-2		
-	snortVersion: 3.1.21.800-2	
-	snortPackage: /ngfw/var/sf/snort-3.1.21.800-2/snor...	
-	name: 3.1.21.800-2	
Data SSL Cipher Setting Edited: DefaultDataSSLCipherSetting		
SSL Cipher Edited: DefaultSSLCipher		
-	protocolVersions[0]: TLSV1	
-	protocolVersions[1]: DTLSV1	
-	protocolVersions[2]: TLSV1_1	
Intrusion Policy Edited: Security Over Connectivity - Cisco Talos		
Intrusion Policy Edited: Maximum Detection - Cisco Talos		
MORE ACTIONS ▾	CANCEL	DEPLOY NOW ▾

ةساي سلا رشن

ةحصل لا نم ققحت لا

ةلأحل دي كأت بجي ،اه تي قرتو HA ةلأح لامتك نم ققحت لل

طشن :يساسأ

دادعت سالا :يوناثلا

(لا ثمل اذه يف 7.2.8) ارخؤم هريغت مت يذلا رادصإلا نمض امهالك



لش فال زواجت

- show failover state رمأل مادختساب لش فال زواجت ةلأح نم ققحت ، (CLI) رمألأا رطس ةهأورب ع ةي لي صفتل تامولعمل نم ديزم لعل لوصحلل state show failed overoveroverver

Cisco Firepower (FX-OS) ع سوملا لي غشتلا ماظن (73 ةي ن ب) 2.12.1 رادصلال VMware جم ان ربل FirePOWER ديدهت دض ع ا فدل جم ان ربل Cisco نم (25 ةي ن ب) 7.2.8 رادصلال

> show failover state

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

====Configuration State====

Sync Skipped

====Communication State====

Mac set

> show failover

Failover On

Failover unit Primary

Failover LAN Interface: failover-link GigabitEthernet0/2 (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 311 maximum

MAC Address Move Notification Interval not set

failover replication http

Version: Ours 9.18(4)210, Mate 9.18(4)210

Serial Number: Ours 9A1QUNFWPK1, Mate 9A45VNEHB5C

Last Failover at: 14:13:56 UTC Oct 15 2024

This host: Primary - Active

Active time: 580 (sec)

slot 0: ASAv hw/sw rev (/9.18(4)210) status (Up Sys)

Interface diagnostic (0.0.0.0): Normal (Waiting)

Interface inside (192.168.45.1): Normal (Waiting)

Interface outside (192.168.1.10): 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: 91512 (sec)

Interface diagnostic (0.0.0.0): Normal (Waiting)

Interface inside (0.0.0.0): Normal (Waiting)

Interface outside (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 GigabitEthernet0/2 (up)

Stateful Obj	xmit	xerr	rcv	rerr
General	11797	0	76877	0

sys cmd	11574	0	11484	0
up time	0	0	0	0
RPC services	0	0	0	0
TCP conn	0	0	0	0
UDP conn	176	0	60506	0
ARP tbl	45	0	4561	0
Xlate_Timeout	0	0	0	0
IPv6 ND tbl	0	0	0	0
VPN IKEv1 SA	0	0	0	0
VPN IKEv1 P2	0	0	0	0
VPN IKEv2 SA	0	0	0	0
VPN IKEv2 P2	0	0	0	0
VPN CTCP upd	0	0	0	0
VPN SDI upd	0	0	0	0
VPN DHCP upd	0	0	0	0
SIP Session	0	0	0	0
SIP Tx	0	0	0	0
SIP Pinhole	0	0	0	0
Route Session	1	0	0	0
Router ID	0	0	0	0
User-Identity	0	0	30	0
CTS SGTNAME	0	0	0	0
CTS PAC	0	0	0	0
TrustSec-SXP	0	0	0	0
IPv6 Route	0	0	0	0
STS Table	0	0	0	0
Umbrella Device-ID	0	0	0	0
Rule DB B-Sync	0	0	30	0
Rule DB P-Sync	1	0	266	0
Rule DB Delete	0	0	0	0

Logical Update Queue Information

	Cur	Max	Total
Recv Q:	0	31	123591
Xmit Q:	0	1	12100

قلماك نوكت ةيقرتل انإف، ةميسل س HA ةلاح تناكو، رادصلإا سفن ىلع FTD نم ال ك ناك اذإ.

ةمچرتل هذه لوج

ةللأل تاي نقتل نمة ومة مادختساب دن تسمل اذة Cisco تمةرت
ملاعلاء انء مء مء نمة دختسمل معد و تمة مء دقتل ةر شبل او
امك ةق قء نوك ت نل ةللأل ةمچرت لصف أن ةظحال مء ءرء. ةصاأل مء تءل ب
Cisco ةللخت. فرتمة مچرت مء دقء ةللأل ةل فارتحال ةمچرتل عم لاعل او
ىل إأمءءاد ءوچرلاب ةصوء و تامةرتل هذه ةقء نء اهءل وئس م Cisco
Systems (رفوتم طبارل) ةلصلأل ةزءل ءنل ا دن تسمل