

# Probleemoplossing voor VCC - HA

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## Inleiding

In dit document wordt beschreven hoe u veelvoorkomende synchronisatieproblemen kunt oplossen in een High Availability (HA)-instelling voor Firepower Management Center (FMC).

## Voorwaarden

### Vereisten

Cisco raadt u aan kennis te hebben van de volgende onderwerpen:

- FMC - HA-configuratievereisten
- Basiskennis van Linux shell.

### Gebruikte componenten

- FMCv voor VMware op versie 7.2.8.

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 live is, moet u zorgen dat u de potentiële impact van elke opdracht begrijpt.

## Achtergrondinformatie

De eerste configuratie van het voor dit document gebruikte laboratorium voldoet aan de eisen voor

de basisconfiguratie van de FMC-HA.

- Twee VCC's met dezelfde capaciteit of hardwareversie.
- Twee FMC's met dezelfde softwareversie, Inbraakregelupdate, Vulnerability Database en Lichtgewicht security pakket.
- twee VCC's met de bijbehorende vergunningen.

## Voordat u begint

- Zorg ervoor dat de beheerder toegang heeft tot beide VCC's.
- Zorg ervoor dat de beheerder toegang heeft tot de FTD-apparaten die door het VCC worden beheerd.

## Opdrachten voor probleemoplossing

### Opdrachten voor FMC-probleemoplossing.

Om de verbinding tussen FMC-apparaten te valideren, kan de gebruiker deze opdrachten uitvoeren.

```
<#root>
```

```
> expert
```

```
admin@firepower:~$
```

```
sudo su
```

```
root@firepower:/Volume/home/admin#
```

```
ping xx.xx.18.102
```

```
PING xx.xx.18.102 (xx.xx.18.102) 56(84) bytes of data.  
64 bytes from xx.xx.18.102: icmp_seq=1 ttl=64 time=0.533 ms  
64 bytes from xx.xx.18.102: icmp_seq=2 ttl=64 time=0.563 ms  
64 bytes from xx.xx.18.102: icmp_seq=3 ttl=64 time=0.431 ms  
^C  
--- xx.xx.18.102 ping statistics ---  
3 packets transmitted, 3 received, 0% packet loss, time 59ms  
rtt min/avg/max/mdev = 0.431/0.509/0.563/0.056 ms
```

```
root@firepower:/Volume/home/admin#
```

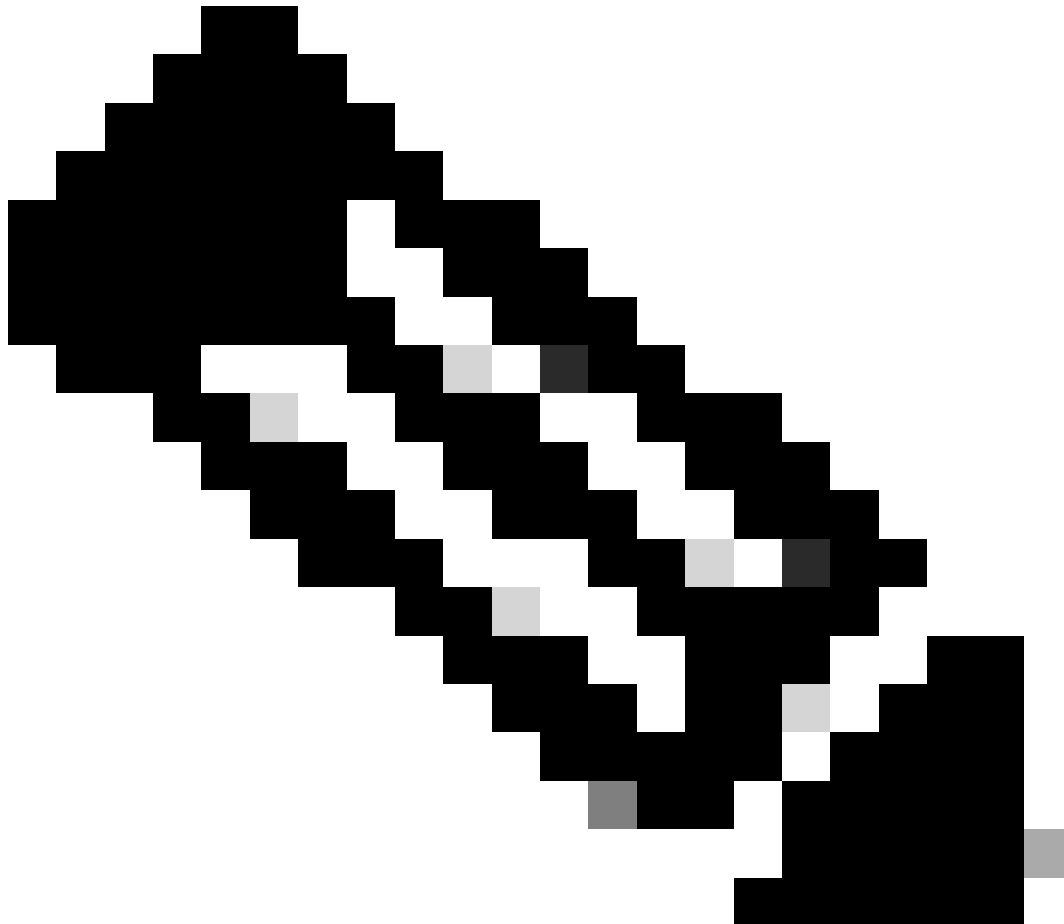
```
netstat -an | grep 8305
```

```
tcp 0 0 xx.xx.18.101:8305 0.0.0.0:* LISTEN  
tcp 0 0 xx.xx.18.101:8305 xx.xx.18.253:48759 ESTABLISHED  
tcp 0 0 xx.xx.18.101:8305 xx.xx.18.254:53875 ESTABLISHED  
tcp 0 0 xx.xx.18.101:8305 xx.xx.18.254:49205 ESTABLISHED  
tcp 0 0 xx.xx.18.101:60871 xx.xx.18.253:8305 ESTABLISHE
```

ping <peer-ip-adres> Deze opdracht kan worden gebruikt om de bereikbaarheid tussen beide apparaten te controleren.

netstat -an | grep 8305 Deze opdracht geeft de met poort 8305 verbonden apparaten weer.

---



Opmerking: de poort 8305 is de standaardpoort die op de FirePOWER-apparaten is geconfigureerd om het communicatiekanaal met het VCC te creëren.

---

Om de FMC-HA setup configuratie te valideren, kan de gebruiker ook het script `troubleshoot_HADC.pl`. Dit is met name nuttig in deze scenario's:

- Wanneer de FMC-HA integratiestatus verslechtert.
- Indien de toegang tot de grafische gebruikersinterface (GUI) van het VCC ontbreekt, maar de toegang van het VCC-CLI nog werkt en toegankelijk is.

<#root>

```
> expert
```

```
admin@firepower:~$
```

```
sudo su
```

```
root@firepower:/Volume/home/admin#
```

```
troubleshoot_HADC.pl
```

```
***** Troubleshooting Utility *****
```

- 1 Show HA Info Of FMC
- 2 Execute Sybase DBPing
- 3 Show Arbiter Status
- 4 Check Peer Connectivity
- 5 Print Messages of AQ Task
- 6 Show FMC HA Operations History (ASC order)
- 7 Dump To File: FMC HA Operations History (ASC order)
- 8 Last Successful Periodic Sync Time (When it completed)
- 9 Print HA Status Messages
- 10 Compare active and standby device list
- 11 Check manager status of standby missing devices
- 12 Check critical PM processes details
- 13 Get Remote Stale Sync AQ Info
- 14 Help
- 0 Exit

```
*****
```

```
Enter choice:
```

## Opdrachten voor FTD-probleemoplossing

Probleemoplossing voor de connectiviteit van de FTD naar de FMC-HA stelt de gebruiker in staat om de connectiviteit te valideren van apparaten die moeten worden geregistreerd op zowel de FMC's als bij een verslechterde HA, en geeft de waarschuwing "Degraded - Synchronization incomplete (This Management Center heeft minder apparaten geregistreerd)" weer.

Op FTD-niveau kan de gebruiker deze opdrachten uitvoeren om de communicatie met het FMC te valideren.

```
<#root>
```

```
>
```

```
ping system xx.xx.18.102
```

```
PING xx.xx.18.102 (xx.xx.18.102) 56(84) bytes of data.
```

```
64 bytes from xx.xx.18.102: icmp_seq=1 ttl=64 time=0.595 ms
```

```
64 bytes from xx.xx.18.102: icmp_seq=2 ttl=64 time=0.683 ms
```

```
64 bytes from xx.xx.18.102: icmp_seq=3 ttl=64 time=0.642 ms
```

```
64 bytes from xx.xx.18.102: icmp_seq=4 ttl=64 time=24.4 ms
```

```
64 bytes from xx.xx.18.102: icmp_seq=5 ttl=64 time=11.4 ms
```

^C

--- xx.xx.18.102 ping statistics ---  
5 packets transmitted, 5 received, 0% packet loss, time 128ms  
rtt min/avg/max/mdev = 0.595/7.545/24.373/9.395 ms

> show managers

Type : Manager  
Host : xx.xx..18.101  
Display name : xx.xx..18.101  
Version : 7.2.8 (Build 25)  
Identifier : fc3e3572-xxxx-xxxx-xxxx-39e0098c166c  
Registration : Completed  
Management type : Configuration and analytics

Type : Manager  
Host : xx.xx..18.102  
Display name : xx.xx..18.102  
Version : 7.2.8 (Build 25)  
Identifier : bb333216-xxxx-xxxx-xxxx-c68c0c388b44  
Registration : Completed  
Management type : Configuration and analytics

> sftunnel-status

SFTUNNEL Start Time: Mon Oct 14 21:29:16 2024

Both IPv4 and IPv6 connectivity is supported  
Broadcast count = 5  
Reserved SSL connections: 0  
Management Interfaces: 2  
eth0 (control events) xx.xx..18.254,  
tap\_nlp (control events) 169.254.1.2,fd00:0:0:1::2

\*\*\*\*\*

\*\*RUN STATUS\*\*xx.xx..18.102\*\*\*\*\*

Key File = /var/sf/peers/bb333216-xxxx-xxxx-xxxx-c68c0c388b44/sftunnel-key.pem  
Cert File = /var/sf/peers/bb333216-xxxx-xxxx-xxxx-c68c0c388b44/sftunnel-cert.pem  
CA Cert = /var/sf/peers/bb333216-xxxx-xxxx-xxxx-c68c0c388b44/cacert.pem  
Cipher used = TLS\_AES\_256\_GCM\_SHA384 (strength:256 bits)  
ChannelA Connected: Yes, Interface eth0  
Cipher used = TLS\_AES\_256\_GCM\_SHA384 (strength:256 bits)  
ChannelB Connected: Yes, Interface eth0  
Registration: Completed.  
IPv4 Connection to peer 'xx.xx..18.102' Start Time: Tue Oct 15 00:38:43 2024 UTC  
IPv4 Last outbound connection to peer 'xx.xx..18.102' via Primary ip/host 'xx.xx..18.102'

PEER INFO:

sw\_version 7.2.8  
sw\_build 25  
Using light registration  
Management Interfaces: 1  
eth0 (control events) xx.xx..18.102,  
Peer channel Channel-A is valid type (CONTROL), using 'eth0', connected to 'xx.xx..18.102' via 'xx.xx..18.102'  
Peer channel Channel-B is valid type (EVENT), using 'eth0', connected to 'xx.xx..18.102' via 'xx.xx..18.102'

\*\*\*\*\*

```
**RUN STATUS****xx.xx..18.101*****
Key File = /var/sf/peers/fc3e3572-xxxx-xxxx-xxxx-39e0098c166c/sftunnel-key.pem
Cert File = /var/sf/peers/fc3e3572-xxxx-xxxx-xxxx-39e0098c166c/sftunnel-cert.pem
CA Cert = /var/sf/peers/fc3e3572-xxxx-xxxx-xxxx-39e0098c166c/cacert.pem
Cipher used = TLS_AES_256_GCM_SHA384 (strength:256 bits)
ChannelA Connected: Yes, Interface eth0
Cipher used = TLS_AES_256_GCM_SHA384 (strength:256 bits)
ChannelB Connected: Yes, Interface eth0
Registration: Completed.
IPv4 Connection to peer 'xx.xx..18.101' Start Time: Mon Oct 14 21:29:15 2024 UTC
IPv4 Last outbound connection to peer 'xx.xx..18.101' via Primary ip/host 'xx.xx..18.101'
```

PEER INFO:

```
sw_version 7.2.8
sw_build 25
Using light registration
Management Interfaces: 1
eth0 (control events) xx.xx..18.101,
Peer channel Channel-A is valid type (CONTROL), using 'eth0', connected to 'xx.xx..18.101' via 'xx.xx..18.101'
Peer channel Channel-B is valid type (EVENT), using 'eth0', connected to 'xx.xx..18.101' via 'xx.xx..18.101'
```

\*\*\*\*\*

```
**RPC STATUS****xx.xx..18.102*****
'uuid' => 'bb333216-xxxx-xxxx-xxxx-c68c0c388b44',
'uuid_gw' => '',
'last_changed' => 'Wed Oct 9 07:00:11 2024',
'active' => 1,
'name' => 'xx.xx..18.102',
'ip' => 'xx.xx..18.102',
'ipv6' => 'IPv6 is not configured for management'
```

```
**RPC STATUS****xx.xx..18.101*****
'uuid_gw' => '',
'uuid' => 'fc3e3572-xxxx-xxxx-xxxx-39e0098c166c',
'last_changed' => 'Mon Jun 10 18:59:54 2024',
'active' => 1,
'ip' => 'xx.xx..18.101',
'ipv6' => 'IPv6 is not configured for management',
'name' => 'xx.xx..18.101'
```

Check routes:  
No peers to check

ping-systeem <fmc-IP> Volg de FTD-beheerinterface om een ICMP te genereren.

show managers Dit commando geeft de informatie van de managers waar het apparaat is geregistreerd.

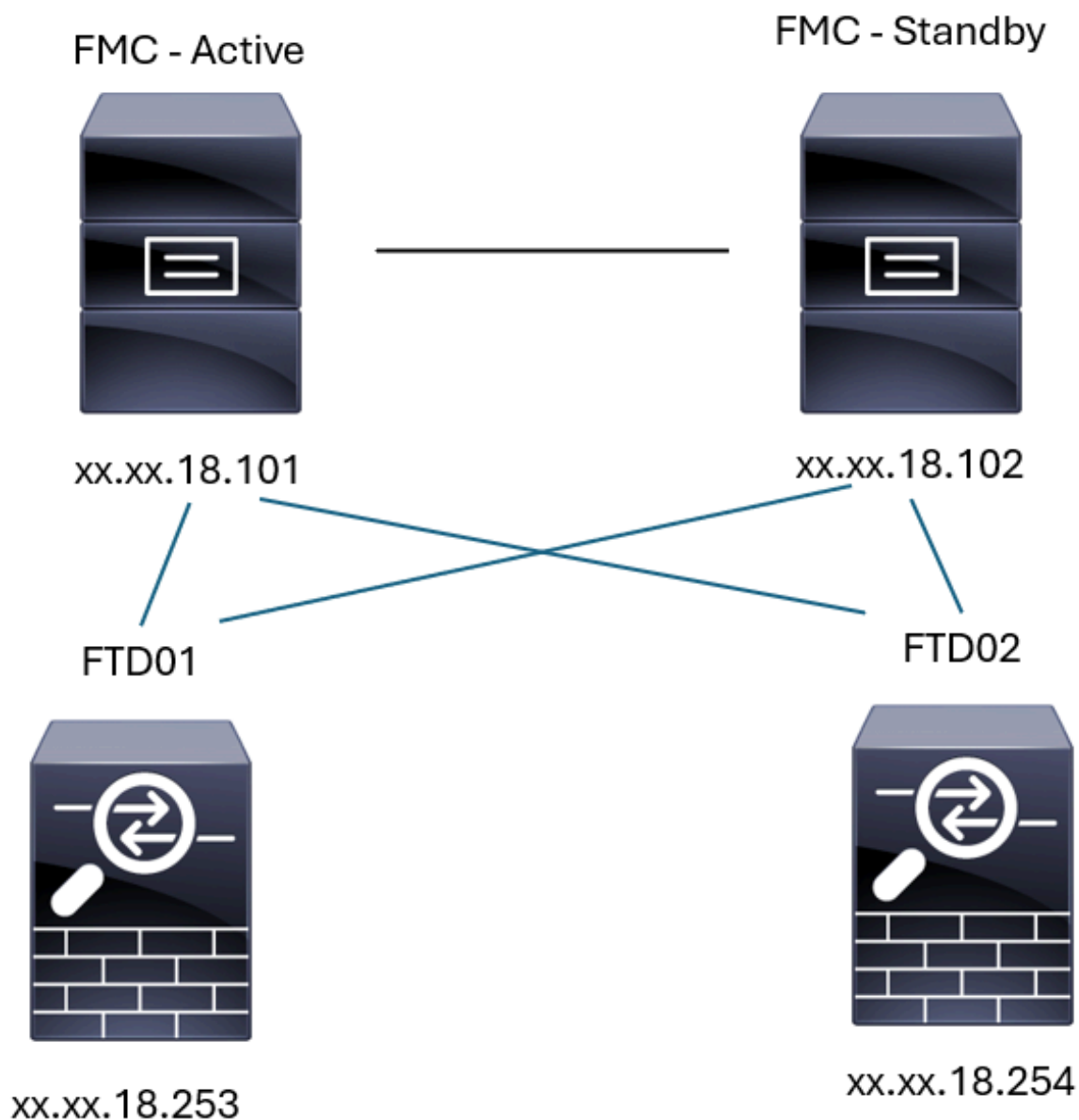
sftunnel-status Deze opdracht valideert het communicatiekanaal dat tussen de apparaten is ingesteld. Dit kanaal krijgt de naam sftunnel.

De opdrachten voor het controleren van de connectiviteit op het basisniveau van het FTD zijn dezelfde als het FMC. Het FTD bevat geen script dat de communicatie met het FMC kan valideren, maar het is mogelijk de tijdens het registratieproces verkregen informatie te controleren

in het /ngfw/var/log/action.log.

## Verificatie

Voor de volgende topologie kan de communicatie tussen de FMC-HA peers en de FTD01 gevalideerd worden met behulp van de eerder beschreven opdrachten.



FMC-HA-topologie

## FMC - HA-validering

Voor deze validatie kunnen de basisrichtlijnen voor het instellen van een FMC-HA ook worden gevalideerd met behulp van de opdrachtshow versie.

<#root>

FMC Active

>

show version

```
-----[ firepower ]-----  
Model          : Secure Firewall Management Center for VMware (66) Version 7.2.8 (Build 25)  
UUID           : fc3e3572-xxxx-xxxx-xxxx-39e0098c166c  
Rules update version : 2023-11-29-001-vrt  
LSP version    : lsp-rel-20231129-1200  
VDB version    : 395  
-----
```

> expert

admin@firepower:~\$

sudo su

root@firepower:/Volume/home/admin#

ping xx.xx.18.102

```
PING xx.xx.18.102 (xx.xx.18.102) 56(84) bytes of data.  
64 bytes from xx.xx.18.102: icmp_seq=1 ttl=64 time=0.385 ms  
64 bytes from xx.xx.18.102: icmp_seq=2 ttl=64 time=0.433 ms  
64 bytes from xx.xx.18.102: icmp_seq=3 ttl=64 time=0.606 ms  
64 bytes from xx.xx.18.102: icmp_seq=4 ttl=64 time=0.480 ms  
64 bytes from xx.xx.18.102: icmp_seq=5 ttl=64 time=0.524 ms  
^C  
--- xx.xx.18.102 ping statistics ---  
5 packets transmitted, 5 received, 0% packet loss, time 84ms  
rtt min/avg/max/mdev = 0.385/0.485/0.606/0.079 ms
```

root@firepower:/Volume/home/admin#

netstat -an | grep 8305

```
tcp        0      0 xx.xx.18.101:8305    xx.xx.18.254:53875  ESTABLISHED  
tcp        0      0 xx.xx.18.101:8305    xx.xx.18.102:38239  ESTABLISHED ----- communication es  
tcp        0      0 xx.xx.18.101:8305    xx.xx.18.254:49205  ESTABLISHED  
tcp        0      0 xx.xx.18.101:8305    xx.xx.18.253:34865  ESTABLISHED  
tcp        0      0 xx.xx.18.101:60871   xx.xx.18.253:8305   ESTABLISHED  
tcp        0      0 xx.xx.18.101:8305    xx.xx.18.102:42253  ESTABLISHED ----- communication es
```

root@firepower:/Volume/home/admin#

troubleshoot\_HADC.pl

\*\*\*\*\* Troubleshooting Utility \*\*\*\*\*

- 1 Show HA Info Of FMC
- 2 Execute Sybase DBPing
- 3 Show Arbiter Status
- 4 Check Peer Connectivity
- 5 Print Messages of AQ Task



- 6 Show FMC HA Operations History (ASC order)
- 7 Dump To File: FMC HA Operations History (ASC order)
- 8 Last Successful Periodic Sync Time (When it completed)
- 9 Print HA Status Messages
- 10 Compare active and standby device list
- 11 Check manager status of standby missing devices
- 12 Check critical PM processes details
- 13 Get Remote Stale Sync AQ Info
- 14 Help
- 0 Exit

\*\*\*\*\*

Enter choice: 1

HA Enabled: Yes

This FMC Role In HA: Active - Primary

Status out put: vmsDbEngine (system,gui) - Running 5093

In vmsDbEngineStatus(): vmsDbEngine process is running at /usr/local/sf/lib/perl/5.24.4/SF/Synchronize/

Sybase Process: Running (vmsDbEngine, theSybase PM Process is Running)

Sybase Database Connectivity: Accepting DB Connections.

Sybase Database Name: csm\_primary

Sybase Role: Active

\*\*\*\*\* Troubleshooting Utility \*\*\*\*\*

- 1 Show HA Info Of FMC
- 2 Execute Sybase DBPing
- 3 Show Arbiter Status
- 4 Check Peer Connectivity
- 5 Print Messages of AQ Task
- 6 Show FMC HA Operations History (ASC order)
- 7 Dump To File: FMC HA Operations History (ASC order)
- 8 Last Successful Periodic Sync Time (When it completed)
- 9 Print HA Status Messages
- 10 Compare active and standby device list
- 11 Check manager status of standby missing devices
- 12 Check critical PM processes details
- 13 Get Remote Stale Sync AQ Info
- 14 Help
- 0 Exit

\*\*\*\*\*

Enter choice: 4

Peer UUID [Enter 'Return' For HA Peer(no UUID required)]:

Peer Is Connected

```
$VAR1 = {
    'vip' => '',
    'model_id' => 'E',
    'ip' => 'xx.xx.18.102',
    'persistent' => 0,
    'sw_version' => '7.2.8',
    'last_changed' => 1728457211,
    'active' => 1,
    'uuid' => 'bb333216-xxxx-xxxx-xxxx-c68c0c388b44',
    'upgrade_version' => '',
    'reg_state' => 0,
    'model_number' => '66',
    'primary_mgr' => 0,
    'name' => 'xx.xx.18.102',
    'uuid_gw' => '',
    'ipv6' => undef,
    'vip_local' => '',
    'priority' => 0,
    'reg_key' => ''
}
```

```
'vnet' => undef,  
'role' => 0,  
'mgmt_mac_address' => '00:50:56:B3:D1:07'  
};
```

\*\*\*\*\* Troubleshooting Utility \*\*\*\*\*

- 1 Show HA Info Of FMC
- 2 Execute Sybase DBPing
- 3 Show Arbiter Status
- 4 Check Peer Connectivity
- 5 Print Messages of AQ Task
- 6 Show FMC HA Operations History (ASC order)
- 7 Dump To File: FMC HA Operations History (ASC order)
- 8 Last Successful Periodic Sync Time (When it completed)
- 9 Print HA Status Messages
- 10 Compare active and standby device list
- 11 Check manager status of standby missing devices
- 12 Check critical PM processes details
- 13 Get Remote Stale Sync AQ Info
- 14 Help
- 0 Exit

\*\*\*\*\*

Enter choice: 8

----- Last periodic sync time details -----

Last successful sync completed at: Wed Oct 16 16:44:23 2024 UTC  
Current time: Wed Oct 16 16:46:34 2024 UTC  
Last successful sync completed '2 minutes 11 seconds' ago.

----- Last periodic sync time details end -----

\*\*\*\*\* Troubleshooting Utility \*\*\*\*\*

- 1 Show HA Info Of FMC
- 2 Execute Sybase DBPing
- 3 Show Arbiter Status
- 4 Check Peer Connectivity
- 5 Print Messages of AQ Task
- 6 Show FMC HA Operations History (ASC order)
- 7 Dump To File: FMC HA Operations History (ASC order)
- 8 Last Successful Periodic Sync Time (When it completed)
- 9 Print HA Status Messages
- 10 Compare active and standby device list
- 11 Check manager status of standby missing devices
- 12 Check critical PM processes details
- 13 Get Remote Stale Sync AQ Info
- 14 Help
- 0 Exit

\*\*\*\*\*

Enter choice: 9

SYNC\_ACTIVE: 1 at /usr/local/sf/lib/perl/5.24.4/SF/Synchronize.pm line 494, <STDIN> line 5.  
Sybase state : at /usr/local/sf/lib/perl/5.24.4/SF/Synchronize.pm line 701.  
Sybase state : at /usr/local/sf/lib/perl/5.24.4/SF/Synchronize.pm line 801.  
Sync status : at /usr/local/sf/lib/perl/5.24.4/SF/Synchronize.pm line 802.

----- FMC HA status messages start -----

Status: Healthy

----- FMC HA status messages end -----

\*\*\*\*\* Troubleshooting Utility \*\*\*\*\*

- 1 Show HA Info Of FMC

```
2 Execute Sybase DBPing
3 Show Arbiter Status
4 Check Peer Connectivity
5 Print Messages of AQ Task
6 Show FMC HA Operations History (ASC order)
7 Dump To File: FMC HA Operations History (ASC order)
8 Last Successful Periodic Sync Time (When it completed)
9 Print HA Status Messages
10 Compare active and standby device list
11 Check manager status of standby missing devices
12 Check critical PM processes details
13 Get Remote Stale Sync AQ Info
14 Help
0 Exit
*****
Enter choice: 10
```

```
Fetching standby missing device information...
Devices are in sync.
```

```
***** Troubleshooting Utility *****
1 Show HA Info Of FMC
2 Execute Sybase DBPing
3 Show Arbiter Status
4 Check Peer Connectivity
5 Print Messages of AQ Task
6 Show FMC HA Operations History (ASC order)
7 Dump To File: FMC HA Operations History (ASC order)
8 Last Successful Periodic Sync Time (When it completed)
9 Print HA Status Messages
10 Compare active and standby device list
11 Check manager status of standby missing devices
12 Check critical PM processes details
13 Get Remote Stale Sync AQ Info
14 Help
0 Exit
*****
Enter choice: 0
Thank you
```

<#root>

*FMC Standby*

>

show version

```
-----[ firepower ]-----
Model           : Secure Firewall Management Center for VMware (66) Version 7.2.8 (Build 25)
UUID            : bb333216-xxxx-xxxx-xxxx-c68c0c388b44
Rules update version : 2023-11-29-001-vrt
LSP version     : lsp-rel-20231129-1200
VDB version     : 395
-----
```

> expert

admin@firepower:~\$

sudo su

root@firepower:/Volume/home/admin#

ping xx.xx.18.101

```
PING xx.xx.18.101 (xx.xx.18.101) 56(84) bytes of data.  
64 bytes from xx.xx.18.101: icmp_seq=1 ttl=64 time=0.402 ms  
64 bytes from xx.xx.18.101: icmp_seq=2 ttl=64 time=0.482 ms  
64 bytes from xx.xx.18.101: icmp_seq=3 ttl=64 time=0.452 ms  
64 bytes from xx.xx.18.101: icmp_seq=4 ttl=64 time=0.490 ms  
64 bytes from xx.xx.18.101: icmp_seq=5 ttl=64 time=0.519 ms  
^C  
--- xx.xx.18.101 ping statistics ---  
5 packets transmitted, 5 received, 0% packet loss, time 123ms  
rtt min/avg/max/mdev = 0.402/0.469/0.519/0.039 ms
```

root@firepower:/Volume/home/admin#

netstat -an | grep 8305

tcp	0	0	xx.xx.18.102:8305	xx.xx.18.254:50373	ESTABLISHED	
tcp	0	0	xx.xx.18.102:8305	xx.xx.18.253:42083	ESTABLISHED	
tcp	0	0	xx.xx.18.102:59439	xx.xx.18.254:8305	ESTABLISHED	
tcp	0	0	xx.xx.18.102:36751	xx.xx.18.253:8305	ESTABLISHED	
tcp	0	0	xx.xx.18.102:38239	xx.xx.18.101:8305	ESTABLISHED	----- communication es
tcp	0	0	xx.xx.18.102:42253	xx.xx.18.101:8305	ESTABLISHED	----- communication es

root@firepower:/Volume/home/admin#

root@firepower:/Volume/home/admin#

troubleshoot\_HADC.pl

\*\*\*\*\* Troubleshooting Utility \*\*\*\*\*

- 1 Show HA Info Of FMC
- 2 Execute Sybase DBPing
- 3 Show Arbiter Status
- 4 Check Peer Connectivity
- 5 Print Messages of AQ Task
- 6 Show FMC HA Operations History (ASC order)
- 7 Dump To File: FMC HA Operations History (ASC order)
- 8 Last Successful Periodic Sync Time (When it completed)
- 9 Print HA Status Messages
- 10 Compare active and standby device list
- 11 Check manager status of standby missing devices
- 12 Check critical PM processes details
- 13 Get Remote Stale Sync AQ Info
- 14 Help
- 0 Exit

\*\*\*\*\*

Enter choice: 1

HA Enabled: Yes

This FMC Role In HA: Standby - Secondary

Status out put: vmsDbEngine (system,gui) - Running 29652

In vmsDbEngineStatus(): vmsDbEngine process is running at /usr/local/sf/lib/perl/5.24.4/SF/Synchronize/

Sybase Process: Running (vmsDbEngine, theSybase PM Process is Running)  
Sybase Database Connectivity: Accepting DB Connections.  
Sybase Database Name: csm\_secondary  
Sybase Role: Standby

\*\*\*\*\* Troubleshooting Utility \*\*\*\*\*

- 1 Show HA Info Of FMC
- 2 Execute Sybase DBPing
- 3 Show Arbiter Status
- 4 Check Peer Connectivity
- 5 Print Messages of AQ Task
- 6 Show FMC HA Operations History (ASC order)
- 7 Dump To File: FMC HA Operations History (ASC order)
- 8 Last Successful Periodic Sync Time (When it completed)
- 9 Print HA Status Messages
- 10 Compare active and standby device list
- 11 Check manager status of standby missing devices
- 12 Check critical PM processes details
- 13 Get Remote Stale Sync AQ Info
- 14 Help
- 0 Exit

\*\*\*\*\*

Enter choice: 4  
Peer UUID [Enter 'Return' For HA Peer(no UUID required)]:

Peer Is Connected

```
$VAR1 = {  
    'vnet' => undef,  
    'upgrade_version' => '',  
    'uuid_gw' => '',  
    'name' => 'xx.xx.18.101',  
    'primary_mgr' => 1,  
    'sw_version' => '7.2.8',  
    'persistent' => 0,  
    'model_number' => '66',  
    'last_changed' => 1718045994,  
    'reg_key' => '',  
    'active' => 1,  
    'reg_state' => 0,  
    'model_id' => 'E',  
    'vip' => '',  
    'mgmt_mac_address' => '00:50:56:B3:E1:57',  
    'vip_local' => '',  
    'ip' => 'xx.xx.18.101',  
    'priority' => 0,  
    'uuid' => 'fc3e3572-xxxx-xxxx-xxxx-39e0098c166c',  
    'role' => 0,  
    'ipv6' => undef  
};
```

\*\*\*\*\* Troubleshooting Utility \*\*\*\*\*

- 1 Show HA Info Of FMC
- 2 Execute Sybase DBPing
- 3 Show Arbiter Status
- 4 Check Peer Connectivity
- 5 Print Messages of AQ Task
- 6 Show FMC HA Operations History (ASC order)
- 7 Dump To File: FMC HA Operations History (ASC order)
- 8 Last Successful Periodic Sync Time (When it completed)
- 9 Print HA Status Messages
- 10 Compare active and standby device list
- 11 Check manager status of standby missing devices

- 12 Check critical PM processes details
- 13 Get Remote Stale Sync AQ Info
- 14 Help
- 0 Exit

\*\*\*\*\*

Enter choice: 8

----- Last periodic sync time details -----

Last successful sync completed at: Wed Oct 16 16:46:06 2024 UTC  
Current time: Wed Oct 16 16:47:35 2024 UTC  
Last successful sync completed '1 minute 29 seconds' ago.

----- Last periodic sync time details end -----

\*\*\*\*\* Troubleshooting Utility \*\*\*\*\*

- 1 Show HA Info Of FMC
- 2 Execute Sybase DBPing
- 3 Show Arbiter Status
- 4 Check Peer Connectivity
- 5 Print Messages of AQ Task
- 6 Show FMC HA Operations History (ASC order)
- 7 Dump To File: FMC HA Operations History (ASC order)
- 8 Last Successful Periodic Sync Time (When it completed)
- 9 Print HA Status Messages
- 10 Compare active and standby device list
- 11 Check manager status of standby missing devices
- 12 Check critical PM processes details
- 13 Get Remote Stale Sync AQ Info
- 14 Help
- 0 Exit

\*\*\*\*\*

Enter choice: 9

SYNC\_ACTIVE: 1 at /usr/local/sf/lib/perl/5.24.4/SF/Synchronize.pm line 494, <STDIN> line 5.  
Found running Synchronization task: Initializing at /usr/local/sf/lib/perl/5.24.4/SF/Transaction/HADC.p  
Sybase state : at /usr/local/sf/lib/perl/5.24.4/SF/Synchronize.pm line 701.  
Sybase state : at /usr/local/sf/lib/perl/5.24.4/SF/Synchronize.pm line 801.  
Sync status :Synchronization Task In-progress at /usr/local/sf/lib/perl/5.24.4/SF/Synchronize.pm line  
Found running Synchronization task: Initializing at /usr/local/sf/lib/perl/5.24.4/SF/Transaction/HADC.p

----- FMC HA status messages start -----

Status: Synchronization Task In-progress

----- FMC HA status messages end -----

\*\*\*\*\* Troubleshooting Utility \*\*\*\*\*

- 1 Show HA Info Of FMC
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- 13 Get Remote Stale Sync AQ Info
- 14 Help

```

0 Exit
*****
Enter choice: 10

Fetching standby missing device information...
Devices are in sync.

***** Troubleshooting Utility *****
1 Show HA Info Of FMC
2 Execute Sybase DBPing
3 Show Arbiter Status
4 Check Peer Connectivity
5 Print Messages of AQ Task
6 Show FMC HA Operations History (ASC order)
7 Dump To File: FMC HA Operations History (ASC order)
8 Last Successful Periodic Sync Time (When it completed)
9 Print HA Status Messages
10 Compare active and standby device list
11 Check manager status of standby missing devices
12 Check critical PM processes details
13 Get Remote Stale Sync AQ Info
14 Help
0 Exit
*****
Enter choice: 0
Thank you

```

## Communicatie van FTD naar FMC-HA-validering

```

<#root>

>

  show version

-----[ firepower ]-----
Model           : Cisco Firepower Threat Defense for VMware (75) Version 7.2.4 (Build 165)
UUID            : 7064913a-xxxx-xxxx-xxxx-803aefd05d2c
LSP version     : lsp-rel-20231129-1200
VDB version     : 395
-----

>

ping system xx.xx.18.101

----- ping to FMC-Active
PING xx.xx.18.101 (xx.xx.18.101) 56(84) bytes of data.
64 bytes from xx.xx.18.101: icmp_seq=1 ttl=64 time=14.1 ms
64 bytes from xx.xx.18.101: icmp_seq=2 ttl=64 time=27.8 ms
64 bytes from xx.xx.18.101: icmp_seq=3 ttl=64 time=26.1 ms
64 bytes from xx.xx.18.101: icmp_seq=6 ttl=64 time=55.7 ms
64 bytes from xx.xx.18.101: icmp_seq=7 ttl=64 time=39.9 ms
64 bytes from xx.xx.18.101: icmp_seq=8 ttl=64 time=38.9 ms
^C
--- xx.xx.18.101 ping statistics ---

```

8 packets transmitted, 6 received, 25% packet loss, time 76ms  
rtt min/avg/max/mdev = 14.081/33.733/55.658/13.069 ms

>

ping system xx.xx.18.102

----- ping to FMC-Active

PING xx.xx.18.102 (xx.xx.18.102) 56(84) bytes of data.

64 bytes from xx.xx.18.102: icmp\_seq=1 ttl=64 time=23.9 ms

64 bytes from xx.xx.18.102: icmp\_seq=2 ttl=64 time=23.10 ms

64 bytes from xx.xx.18.102: icmp\_seq=3 ttl=64 time=0.425 ms

64 bytes from xx.xx.18.102: icmp\_seq=4 ttl=64 time=6.88 ms

64 bytes from xx.xx.18.102: icmp\_seq=5 ttl=64 time=10.5 ms

^C

--- xx.xx.18.102 ping statistics ---

5 packets transmitted, 5 received, 0% packet loss, time 70ms

rtt min/avg/max/mdev = 0.425/13.131/23.969/9.380 ms

>

show managers

Type : Manager  
Host : xx.xx.18.101  
Display name : xx.xx.18.101  
Version : 7.2.8 (Build 25)  
Identifier : fc3e3572-xxxx-xxxx-xxxx-39e0098c166c  
Registration : Completed  
Management type : Configuration and analytics

Type : Manager  
Host : xx.xx.18.102  
Display name : xx.xx.18.102  
Version : 7.2.8 (Build 25)  
Identifier : bb333216-xxxx-xxxx-xxxx-c68c0c388b44  
Registration : Completed  
Management type : Configuration and analytics

>

sftunnel-status

SFTUNNEL Start Time: Mon Oct 14 21:29:16 2024

Both IPv4 and IPv6 connectivity is supported

Broadcast count = 17

Reserved SSL connections: 0

Management Interfaces: 2

eth0 (control events) xx.xx.18.254,

tap\_nlp (control events) 169.254.1.2, fd00:0:0:1::2

\*\*\*\*\*

\*\*RUN STATUS\*\*xx.xx.18.102\*\*\*\*\* ----- sftunnel information

Key File = /var/sf/peers/bb333216-xxxx-xxxx-xxxx-c68c0c388b44/sftunnel-key.pem

Cert File = /var/sf/peers/bb333216-xxxx-xxxx-xxxx-c68c0c388b44/sftunnel-cert.pem

CA Cert = /var/sf/peers/bb333216-xxxx-xxxx-xxxx-c68c0c388b44/cacert.pem

Cipher used = TLS\_AES\_256\_GCM\_SHA384 (strength:256 bits)

ChannelA Connected: Yes, Interface eth0

Cipher used = TLS\_AES\_256\_GCM\_SHA384 (strength:256 bits)

ChannelB Connected: Yes, Interface eth0

Registration: Completed.

IPv4 Connection to peer 'xx.xx.18.102' Start Time: Wed Oct 16 15:06:23 2024 UTC



IPv4 Last outbound connection to peer 'xx.xx.18.102' via Primary ip/host 'xx.xx.18.102'

PEER INFO:

sw\_version 7.2.8  
sw\_build 25  
Using light registration  
Management Interfaces: 1  
eth0 (control events) xx.xx.18.102,  
Peer channel Channel-A is valid type (CONTROL), using 'eth0', connected to 'xx.xx.18.102' via 'x'  
Peer channel Channel-B is valid type (EVENT), using 'eth0', connected to 'xx.xx.18.102' via 'x'

\*\*\*\*\*

\*\*RUN STATUS\*\*xx.xx.18.101\*\*\*\*\* ----- *sftunnel information o*

Key File = /var/sf/peers/fc3e3572-xxxx-xxxx-xxxx-39e0098c166c/sftunnel-key.pem  
Cert File = /var/sf/peers/fc3e3572-xxxx-xxxx-xxxx-39e0098c166c/sftunnel-cert.pem  
CA Cert = /var/sf/peers/fc3e3572-xxxx-xxxx-xxxx-39e0098c166c/cacert.pem  
Cipher used = TLS\_AES\_256\_GCM\_SHA384 (strength:256 bits)  
ChannelA Connected: Yes, Interface eth0  
Cipher used = TLS\_AES\_256\_GCM\_SHA384 (strength:256 bits)  
ChannelB Connected: Yes, Interface eth0  
Registration: Completed.  
IPv4 Connection to peer 'xx.xx.18.101' Start Time: Mon Oct 14 21:29:15 2024 UTC

PEER INFO:

sw\_version 7.2.8  
sw\_build 25  
Using light registration  
Management Interfaces: 1  
eth0 (control events) xx.xx.18.101,  
Peer channel Channel-A is valid type (CONTROL), using 'eth0', connected to 'xx.xx.18.101' via 'x'  
Peer channel Channel-B is valid type (EVENT), using 'eth0', connected to 'xx.xx.18.101' via 'x'

\*\*\*\*\*

\*\*RPC STATUS\*\*xx.xx.18.101\*\*\*\*\*

'name' => 'xx.xx.18.101',  
'last\_changed' => 'Mon Jun 10 18:59:54 2024',  
'uuid\_gw' => '',  
'ip' => 'xx.xx.18.101',  
'ipv6' => 'IPv6 is not configured for management',  
'active' => 1,  
'uuid' => 'fc3e3572-xxxx-xxxx-xxxx-39e0098c166c'

\*\*RPC STATUS\*\*xx.xx.18.102\*\*\*\*\*

'name' => 'xx.xx.18.102',  
'last\_changed' => 'Wed Oct 9 07:00:11 2024',  
'uuid\_gw' => '',  
'ip' => 'xx.xx.18.102',  
'ipv6' => 'IPv6 is not configured for management',  
'active' => 1,  
'uuid' => 'bb333216-xxxx-xxxx-xxxx-c68c0c388b44'

Check routes:

No peers to check



Opmerking: Als de informatie over de sftunnels van een van de VCC's ontbreekt, kan dit erop wijzen dat de communicatie met de beheerder in gevaar is

---

```
<#root>
```

```
FTD root level troubleshoot
```

```
> expert
```

```
admin@firepower:~$
```

```
sudo su
```

```
root@firepower:/home/admin#
```

```
netstat -an | grep 8305
```

```
tcp      0      0 xx.xx.18.254:8305      xx.xx.18.102:59439    ESTABLISHED ----- communication es
tcp      0      0 xx.xx.18.254:49205     xx.xx.18.101:8305    ESTABLISHED ----- communication es
tcp      0      0 xx.xx.18.254:50373     xx.xx.18.102:8305    ESTABLISHED ----- communication es
tcp      0      0 xx.xx.18.254:53875     xx.xx.18.101:8305    ESTABLISHED ----- communication es
```

```
root@firepower:/home/admin#
```

```
cat /ngfw/var/log/action_queue.log | less
```

```
Oct 16 15:06:50 firepower ActionQueueScrape.pl[4166]: Waiting for light registration to complete on dev
erl/5.24.4/SF/PeerManager/RegistrationCL.pm line 1805.
Oct 16 15:06:50 firepower ActionQueueScrape.pl[4166]: Found Registered peer with name xx.xx.18.102 (bb3
Oct 16 15:06:50 firepower ActionQueueScrape.pl[4166]: Found peer with name xx.xx.18.102 - update DB at
Oct 16 15:06:50 firepower ActionQueueScrape.pl[4166]: Found Registered peer with name xx.xx.18.101 (fc3
```

## Over deze vertaling

Cisco heeft dit document vertaald via een combinatie van machine- en menselijke technologie om onze gebruikers wereldwijd ondersteuningscontent te bieden in hun eigen taal. Houd er rekening mee dat zelfs de beste machinevertaling niet net zo nauwkeurig is als die van een professionele vertaler. Cisco Systems, Inc. is niet aansprakelijk voor de nauwkeurigheid van deze vertalingen en raadt aan altijd het oorspronkelijke Engelstalige document ([link](#)) te raadplegen.