

FMCのトラブルシューティング : HA

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はじめに

このドキュメントでは、Firepower Management Center(FMC)のハイアベイラビリティ(HA)セットでの一般的な同期の問題をトラブルシューティングする方法について説明します。

前提条件

要件

次の項目に関する知識があることが推奨されます。

- FMC:HA設定要件
- Linuxシェルに関する基礎知識。

使用するコンポーネント

- バージョン7.2.8のVMware用FMCv。

このドキュメントの情報は、特定のラボ環境にあるデバイスに基づいて作成されました。このドキュメントで使用するすべてのデバイスは、クリアな(デフォルト)設定で作業を開始しています。本稼働中のネットワークでは、各コマンドによって起こる可能性がある影響を十分確認してください。

背景説明

このドキュメントで使用するラボの初期設定は、基本的なFMC-HA初期設定の要件に従っていま

す。

- 容量またはハードウェアバージョンが同じ2つのFMC。
- 同じソフトウェアバージョン、侵入ルールアップデート、脆弱性データベース、および軽量セキュリティパッケージを実行する2つのFMC
- 対応するライセンスを持つ2つのFMC。

はじめる前に

- 管理者が両方のFMCにアクセスできることを確認します。
- 管理者がFMCによって管理されるFTDデバイスにアクセスできることを確認します。

トラブルシューティングのためのコマンド

FMCのトラブルシューティングコマンド。

FMCデバイス間の接続を検証するために、ユーザは次のコマンドを実行できます。

```
<#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
```

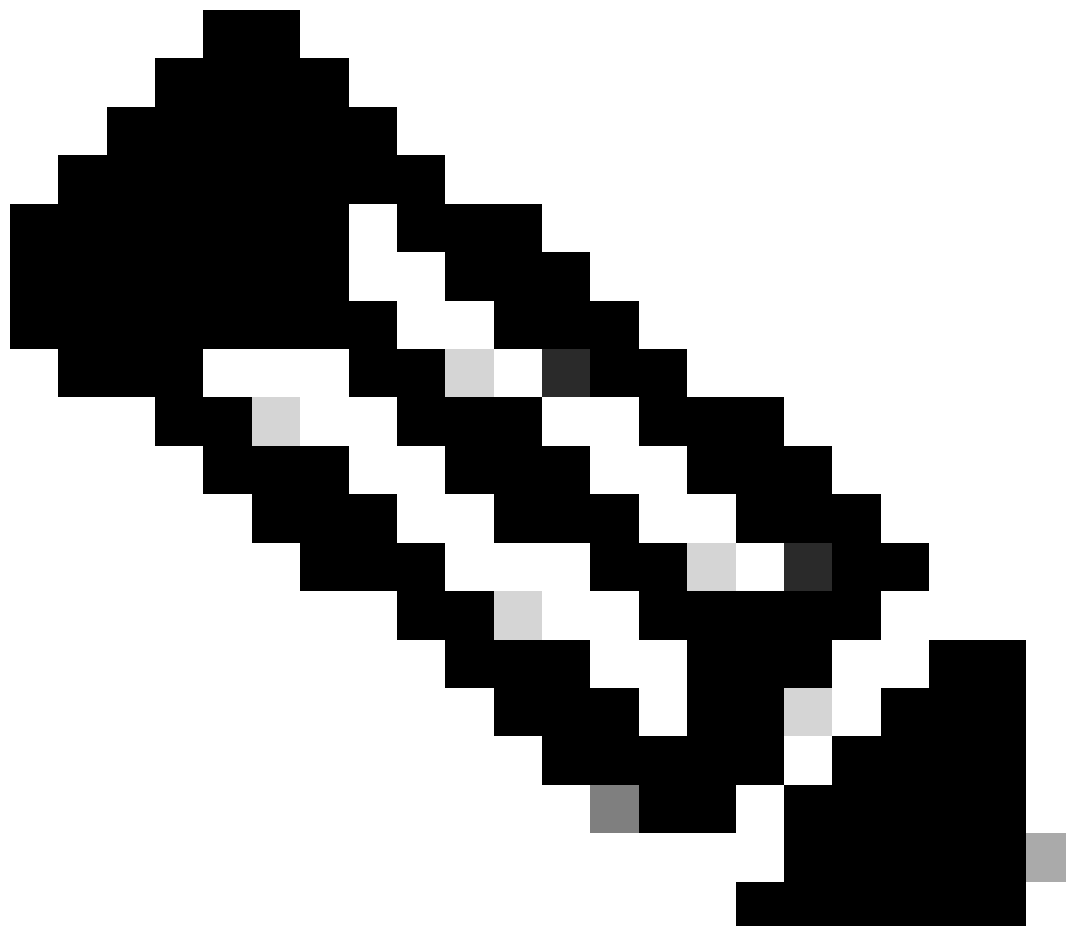
```
root@firepower:/Volume/home/admin#
```

```
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-address> : このコマンドは、両方のデバイス間の到達可能性を確認するために使用できます。

netstat -an | grep 8305 : このコマンドは、ポート8305に接続されているデバイスを表示します。



注 : ポート8305は、FMCとの通信チャネルを確立するためにFirepowerデバイスに設定されたデフォルトポートです。

FMC-HAセットアップ設定を検証するために、ユーザは、スクリプトtroubleshoot_HADC.plを実行することもできます。これは、次のシナリオで特に役立ちます。

- FMC-HA統合のヘルスステータスがデグレードされたとき。
- いずれかのデバイスのFMCグラフィックユーザインターフェイス(GUI)へのアクセスが失われても、FMC-CLIへのアクセスが引き続き機能し、アクセスできる場合。

<#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:
```

FTDトラブルシューティングコマンド

FTDからFMC-HAへの接続のトラブルシューティングを行うと、ユーザは両方のFMCに登録する必要があるデバイスの接続、またはHAが縮退した場合の接続を検証でき、「縮退 - 同期が不完全 (This Management Center has less devices registered)」という警告が表示されます。

FTDのクリッシュレベルから、ユーザは次のコマンドを実行してFMCとの通信を検証できます。

```
<#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 STATUSxx.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 STATUSxx.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 system <fmc-IP>:ICMPを生成するには、FTD管理インターフェイスからを実行します。

show managers : このコマンドは、デバイスが登録されているマネージャの情報をリストします

。

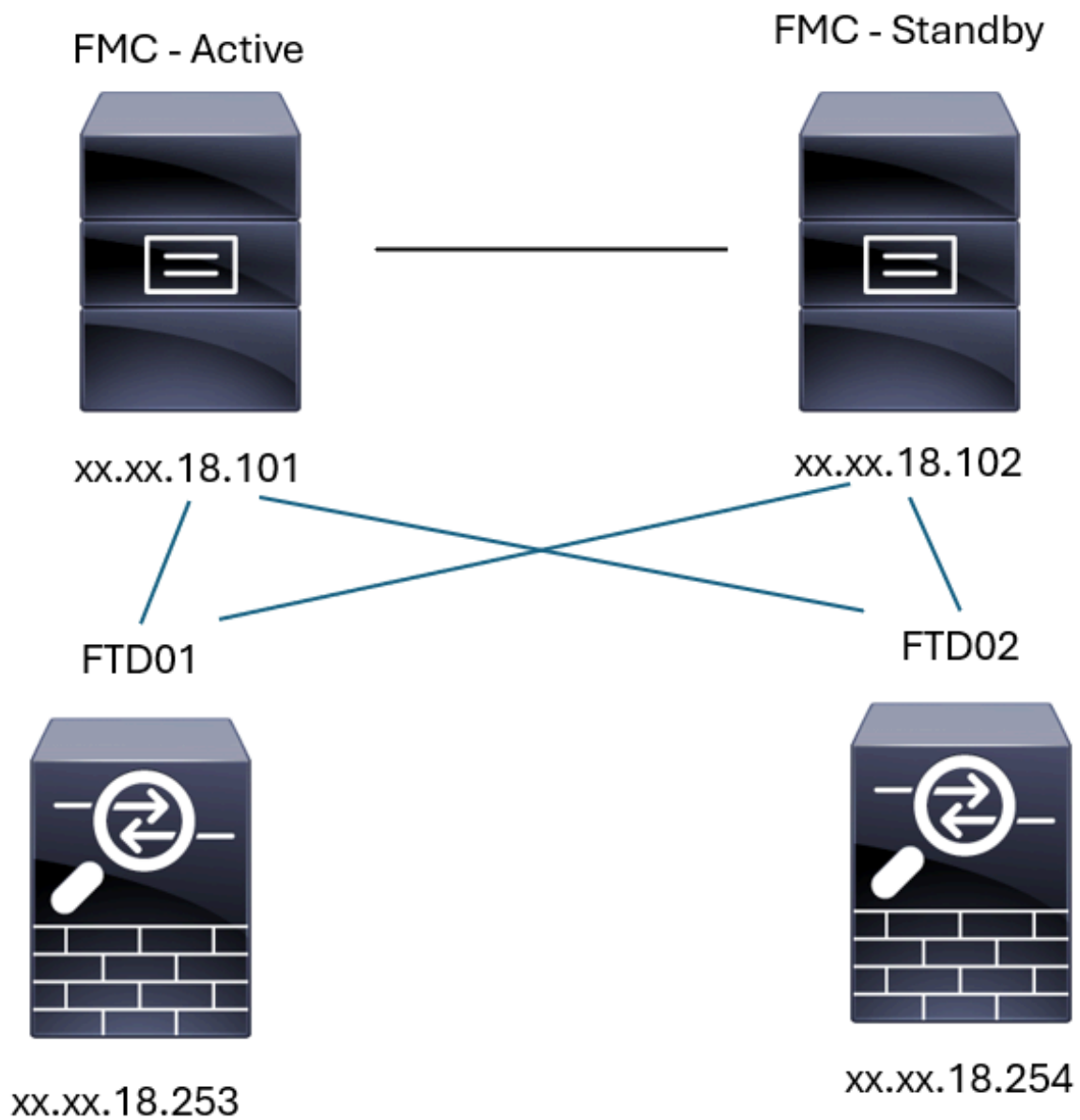
sftunnel-status : このコマンドは、デバイス間で確立されている通信チャネルを検証します。このチャネルは、sftunnelという名前を受け取ります。

FTDのルートレベルで接続を確認するコマンドは、FMCと同じです。FTDの場合、FMCとの通信の検証を可能にするスクリプトは含まれていませんが、/ngfw/var/log/action.logでの登録プロセス中に生成された情報をチェックすることは可能です。

検証

次のトポロジでは、FMC-HAピアとFTD01の間の通信は、前述のコマンドを使用して検証できま

す。



FMC-HAトポロジ

FMC:HAの検証

この検証では、FMC-HAを設定するための基本的なガイドラインも、`show version`コマンドを使用して検証できます。

```
<#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
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- 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
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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
```

FTDからFMC-HAへの通信の検証

```
<#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
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
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

注：いずれかのFMCのsftunnel情報が欠落している場合、マネージャとの通信が侵害されている可能性があります

```
<#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
```

翻訳について

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