

疑難排解FMC和FTD升級錯誤訊息

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簡介

本檔案說明Firepower管理中心(FMC)和Firepower威脅防禦(FTD)上升級錯誤訊息的疑難排解步驟。

必要條件

需求

思科建議您瞭解以下主題

- Linux shell基礎知識。
- Firepower Management Center (FMC)
- Firepower Threat Defense (FTD)

採用元件

- 7.2.8版上適用於VMWare的FMCv。
- 7.2.8版上適用於VMWare的FTDv。

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除 (預設) 的組態來啟動。如果您的網路運作中，請確保您瞭解任何指令可能造成的影響。

背景

思科生成相應的指南以繼續進行Firepower裝置升級。即使在檢視本指南之後，使用者仍可面對以下

任一情況：

Firepower管理中心和Firepower威脅防禦升級錯誤消息

通訊失敗

此訊息可在下一個案例中顯示。

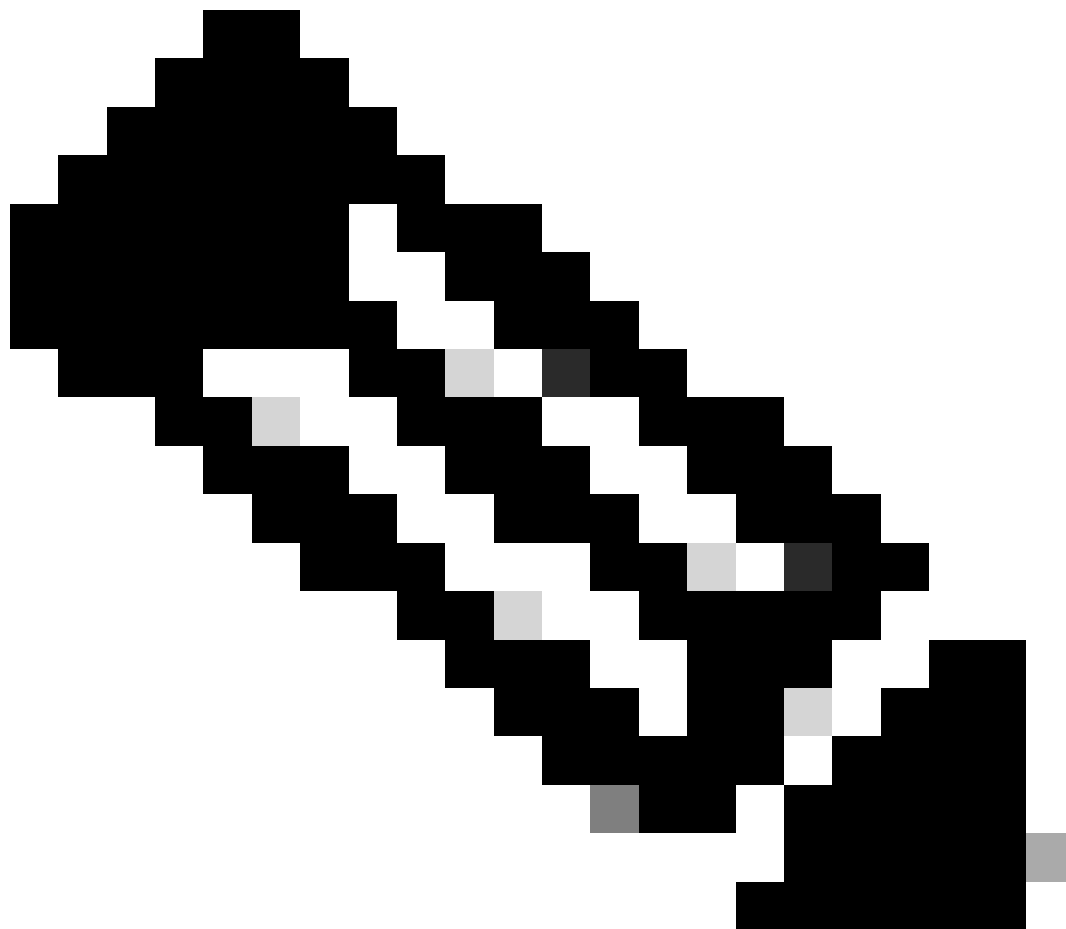
FMC-HA通訊受到威脅

當FMC-HA之間的通訊失敗時，會發生這種情況。客戶可以運行這些命令來檢查裝置之間的連線。

接下來的命令需要在FMC根級別應用。

`ping <peer-ip-address>`。此命令可用於檢查兩台裝置之間的可接通性。

`netstat -an | grep 8305`。此命令顯示連線到埠8305的裝置。



註：埠8305是Firepower裝置上配置的預設埠，用於建立與FMC的通訊通道。

要從FMC-HA運行狀況狀態獲取詳細資訊，使用者可以運行指令碼troubleshoot_HADC.pl

```
<#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
```

```
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:
```

FMC和FTD之間的通訊受到損害

若要驗證從FTD到FMC的通訊，客戶可以從通話層級執行下列指令：

ping system <fmc-IP>，從FTD管理介面產生ICMP流量。

show managers 此命令列出裝置註冊所在的管理器的資訊。

sftunnel-status 此命令驗證在裝置之間建立的通訊通道。此通道接收sftunnel的名稱。

```
<#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 STATUSxx.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

磁碟空間不足，無法升級裝置

當裝置沒有繼續升級程式所需的最小磁碟空間時，會產生此錯誤訊息。這可能是由於儲存舊升級軟體套件、舊覆蓋軟體套件、來自升級過程的舊日誌、舊故障排除檔案、舊備份檔案或者地理位置資料庫大小增加(思科漏洞ID [CSCwe44571](https://cisco.com/wallpaper/CSCwe44571))所致。

在根級別，可以使用FMC和FTD的下一個命令來辨識消耗磁碟資源的檔案

- df -h
- df -Th
- df -kh
- du -sh *

<#root>

FTD upgrade failure message

```
***** FAILURE SCRIPT: 1 *****
[241006 15:10:00:063] SCRIPT NAME: 000_start/410_check_disk_space.sh
RECOVERY MESSAGE: Not enough disk space available in /ngfw(Filesystem:/dev/sda8) to perform the upgrade
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
```

FTD磁碟使用率疑難排解指令

show disk-manager。顯示FTD磁碟上資源與檔案儲存體的資訊。

系統支援思洛儲存器引出。允許使用者安全消除FTD磁碟上的檔案儲存。

<#root>

>

```
show disk-manager
```

Partition:Silo	Used	Minimum	Maximum
/ngfw/var:Temporary Files	621 KB	108.588 MB	434.354 MB
/ngfw/var:Action Queue Results	0 KB	108.588 MB	434.354 MB
/ngfw/var:User Identity Event	0 KB	108.588 MB	434.354 MB
/ngfw/var:UI Caches	0 KB	325.766 MB	651.532 MB
/ngfw/var:Backups	0 KB	868.710 MB	2.121 GB
/ngfw/var:Updates	0 KB	1.273 GB	3.181 GB
/ngfw/var:Other Detection Engine	0 KB	651.532 MB	1.273 GB
/ngfw/var:Performance Statistics	1.325 GB	217.177 MB	1.485 GB
/ngfw/var:Other Events	0 KB	434.354 MB	868.710 MB
/ngfw/var:IP Reputation & URL Filtering	0 KB	542.943 MB	1.060 GB
/ngfw/var:arch_debug_file	0 KB	2.121 GB	12.725 GB
/ngfw/var:Archives & Cores & File Logs	0 KB	868.710 MB	8.483 GB
/ngfw/var:RNA Events	0 KB	868.710 MB	1.485 GB
/ngfw/var:Unified Low Priority Events	2.185 GB	1.060 GB	5.302 GB
/ngfw/var:File Capture	0 KB	2.121 GB	4.242 GB
/ngfw/var:Unified High Priority Events	0 KB	3.181 GB	7.423 GB
/ngfw/var:IPS Events	292 KB	2.545 GB	6.363 GB

```
>
```

```
system support silo-drain
```

Available Silos

- 1 - Temporary Files
- 2 - Action Queue Results
- 3 - User Identity Events
- 4 - UI Caches
- 5 - Backups
- 6 - Updates
- 7 - Other Detection Engine
- 8 - Performance Statistics
- 9 - Other Events
- 10 - IP Reputation & URL Filtering
- 11 - arch_debug_file
- 12 - Archives & Cores & File Logs
- 13 - RNA Events
- 14 - Unified Low Priority Events
- 15 - File Capture
- 16 - Unified High Priority Events
- 17 - IPS Events
- 0 - Cancel and return

Select a Silo to drain:

資料庫損毀

此訊息通常會在執行更新封裝的準備程度檢查後顯示。在FMC中最为常見。

當此錯誤顯示在FMC中時，切勿忘記從FMC生成故障排除檔案。

這使TAC工程師可以開始調查日誌，確定問題出在哪裡，並更快地提供行動計畫。

<#root>

FMC Database error

Fatal error: Database integrity check failed. Error running script 000_start/110_DB_integrity_check.sh.

參考資料

[適用於Firepower管理中心的Cisco Firepower威脅防禦升級指南。](#)

關於此翻譯

思科已使用電腦和人工技術翻譯本文件，讓全世界的使用者能夠以自己的語言理解支援內容。請注意，即使是最佳機器翻譯，也不如專業譯者翻譯的內容準確。Cisco Systems, Inc. 對這些翻譯的準確度概不負責，並建議一律查看原始英文文件（提供連結）。