

排除FMC和FTD升级错误消息故障

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简介

本文档介绍Firepower管理中心(FMC)和Firepower威胁防御(FTD)上升级错误消息的故障排除步骤。

先决条件

要求

思科建议您了解以下主题

- Linux shell基础知识。
- Firepower Management Center (FMC)
- Firepower Threat Defense (FTD)

使用的组件

- 用于VMWare的FMCv在版本7.2.8上。
- 用于VMWare的FTDv在版本7.2.8上。

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您的网络处于活动状态，请确保您了解所有命令的潜在影响。

背景

思科会生成相应的指南以继续进行Firepower设备升级。即使在查看本指南后，用户也可以面对以下

任一情况：

Firepower管理中心和Firepower威胁防御升级错误消息

通信故障

此消息可在下一场景中显示。

FMC-HA通信受到危害

当FMC-HA之间的通信发生故障时，会发生这种情况。客户可以运行这些命令来检查设备之间的连接。

接下来的命令需要应用于FMC根级别。

`ping <peer-ip-address>`。此命令可用于检查两台设备之间的可接通性。

`netstat -an | grep 8305`。此命令显示连接到端口8305的设备。



注意：端口8305是Firepower设备上配置的默认端口，用于建立与FMC的通信信道。

要从FMC-HA运行状况获取详细信息，用户可以运行脚本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之间的通信受到危害

要验证从FTD到FMC的通信，客户可以从clish级别运行以下命令：

ping system <fmc-IP>，从FTD管理接口生成ICMP流。

show managers -此命令列出注册设备的管理器的信息。

sftunnel-status 此命令用于验证设备之间建立的通信信道。此信道接收sftunnel的名称。

```
<#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 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

磁盘空间不足，无法升级设备

当设备没有继续升级过程所需的最小磁盘空间时，会生成此错误消息。这可能是由存储旧升级包、旧覆盖包、升级过程中的旧日志、旧故障排除文件、旧备份文件的设备导致的，或者是由地理位置数据库大小增加导致的(思科漏洞ID [CSCwe44571](#))。

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:

数据库损坏

此消息通常在运行更新包的就绪性检查后显示。最常见于FMC。

当此错误显示在FMC中时，不要忘记从FMC生成故障排除文件。

这样，TAC工程师可以开始调查日志，确定问题所在，并更快地提供行动计划。

```
<#root>
```

```
FMC Database error
```

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

参考

[适用于Firepower管理中心的思科Firepower威胁防御升级指南。](#)

关于此翻译

思科采用人工翻译与机器翻译相结合的方式将此文档翻译成不同语言，希望全球的用户都能通过各自的语言得到支持性的内容。

请注意：即使是最好的机器翻译，其准确度也不及专业翻译人员的水平。

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