

HA - اهحال صإو FMC ءاطخأ فاشك تسأ

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ةمدقمل

ةيلاع ءومجم يف اهل صإو ءعئاشل ءنم ازملا ءاطخأ فاشك تسأ ءيفيك دنن سمل اذه حضوي Firepower (FMC) ءراد زك رمل (HA) رفوتل

ةيساس أال تابل طتمل

تابل طتمل

ةيلال عيضاوملاب ءفرعم كيدل نوك نأب Cisco ي صوت:

- HA نيوكتل تابل طتمل - FMC
- سكونيل ءرشقب ءيساس ءفرعم

ةمدخت سمل تانوك مل

- FMCv ل VMware لى لى 7. 2. 8.

ءصاخ ءيلمعم ءئيب يف ءدوجومل ءزه أال نم دنن سمل اذه يف ءدراول تامول عملا ءاشنإ مت تناك اذإ. (يضا رتفا) حوسمم نيوكتب دنن سمل اذه يف ءمدخت سمل ءزه أال عيمج تءب رمأ يال لمحتمل ريثأتلل كم هف نم دكأتف، ليغشتل ديق كتكبش

ةيساس أ تامول عم

يلوال نيوكتل تابل طتمل ءقيثول هءل مءخت سمل ربتخمل لى لى ءادع لى لى ءب تي و FMC-HA يساس أال

- ةزهأال رادصإ وأ ةعسلال سفنب FMC اتدحو.
- تانايب ةدعاقو، لفطتال ةدعاق ثيدحتو، جم انربال رادصإ سفن نالغشت FMC اتدحو.
- نزولال ةفيلخ نامالال ةمزحو، رثألال.
- ةلباقملا صيخارنالال عم FMC اتدحو.

ءدبلا لبق

- FMCs نم لك ىلإ لوصولال قح هيدل لوؤسملا نأ نم دكأت.
- ةدحو ةطساوب اهترادإ ممت يتال FTD ةزهجأ ىلإ لوصولال قح ىلع لوؤسملا لوصح نم دكأت (FMC). ةيساسالال ةحوللال ةرادإ يف مكحتلال

اهحالصإو ءاطخالال فاشكتسا رماوأ

FMC مكحتلال ةدحوب ةصاخلال اهلصإو ءاطخالال فاشكتسا رماوأ

رماوالال هذه ليلغشت مدختسملل نكمي، FMC ةزهجأ نيب لاصتالال نم ققحتلال

```
<#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
```

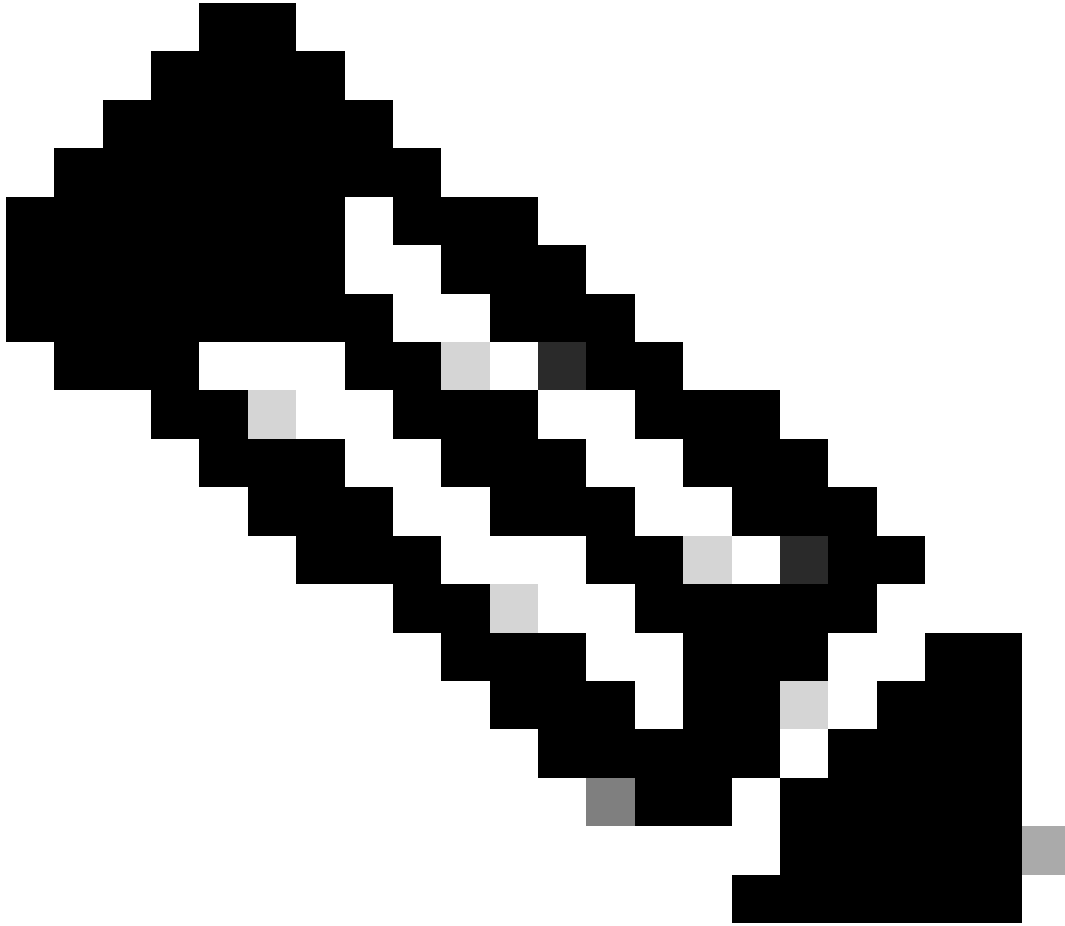
```
root@firepower:/Volume/home/admin#
```

```
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
```

الك نېب لوصول ةي لباق نم ققحتلل رمألا اذه مادختسا نكمي <peer-ip-address> ping
نيزاهجلا

8305 ذفنم لبا ةلصت مالا ةزهجالا رمأ اذه ضرعي 8305 GREP | an - netstat



FirePOWER ةزهجالا لعل هنويوكت مت يذلا يضارت فالال ذفنم لبا وه 8305 ذفنم لبا: ةظحال م
FMC مادختساب لاصلتالا ةانق ءاشنال

يصننل جمانرب لبا ليغشت اضيأ مدختسم لبا نكمي، FMC-HA دادع | نويوكت نم ققحتلل
troubleshooting_HADC.pl. تاهويرانيسلا هذه لثم ي ف صاخ لكشب دي فم اذهو.

- ةيحصننل FMC-HA جمد ةلاح روهدتت ام دنع.
- دحأب ةصاخننل FMC ب ةصاخننل (GUI) ةيموسر لبا مدختسم لبا ةهجاو لبا لوصولنا اذنا
هه لبا لوصولنا نكمي و لمعي لازي ام FMC-CLI لوصولنا نكلو، ادوقم ةزهجالا

<#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:
```

اهحال صإو FTD ءاطخأ فاشكتسأ رمأو

نم ققحتلاب مدختسملل حمسي FMC-HA إىل FTD نم اھحال صإو لاصتال ءاطخأ فاشكتسأ نإ وأ (FMC) لكیة لة رادإی فمكحتلا تادحو نم لك ىلع اهلجست بچی یتلا ةزهجال لاصتة حص یوتھی اذہ ةرادإل زكرم) ةلمتكم ریغ ةنمازملا - ضفخم" ریذحتلا ضرعی امك، HA ضافخنا دنع ("ةلجسمل ةزهجال نم لقا ددع ىلع

لاصتال نم ققحتلل رمأوالا هذہ لیغشت مدختسملل نكمی، FTD ةمئاق یوتسم نم فمك م ادختساب

```
<#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

FTD. قراڈا ءه ءو نم عب تا ، ICMP لو كوت و رب ءاش نإل <fmc-ip> لاصتال راب تخا ماظن

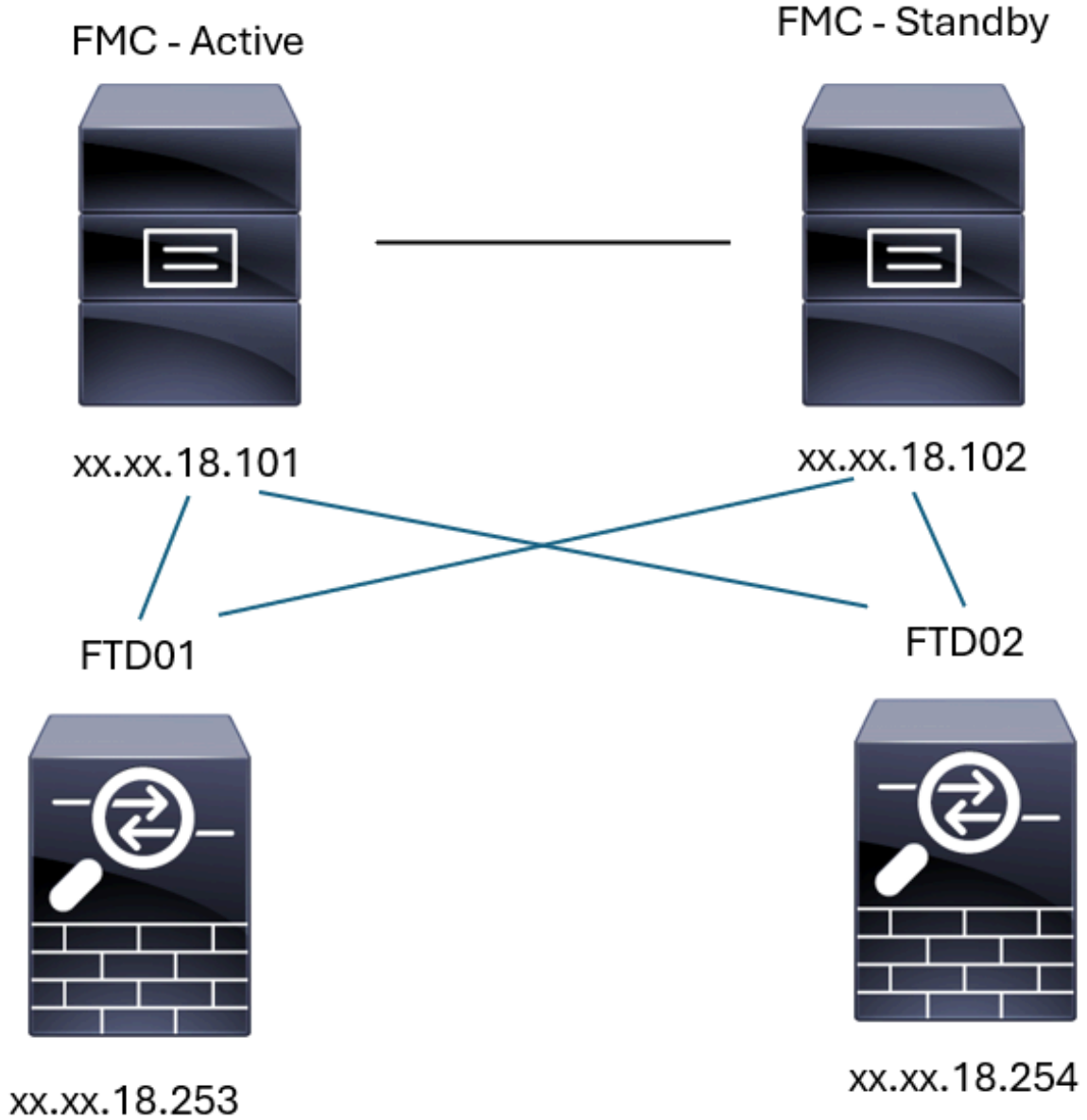
زاهال ليجست متي شيح ني ريدم ل تامول عم رمألا اذه درسي show manager

ءزهألا نيب اهؤاشنإ متي لتال لاصتال ءانق ءحص نم رمألا اذه ققحتي SFTUNNEL-status
sftunnel. مسا ءانقلل هذه سق لتت

في FMC. ب ءصاخلا اهسفن يه FTD في رذجال سوتسم سلع لاصتال نم ققحتي لتال رماوألا
نم ققحتل احي تي اصن نمضتي ال هنإف ،" (FTD) ءعرسلال قئاف لاسرال اءم انرب" ءلاح
ءي لمع ءانثأ اهؤاشنإ متي لتال تامول عمل نم ققحتل نكمم ل نم نكلو ، FMC ب لاصتال
في /ngfw/var/log/action.log ليجستال

ققحتلا

FTD01 و FMC-HA ءارظن نېب لاصتالا نم ققحتلا نكمي، يلاتلا ططخم للة بسننلاب اقبسمة حضوملا رماوآل مادختساب.



FMC-HA ايجولوبط

FMC - HA نم ققحتلا

FMC-HA نېيعةتلة ساسالآ تاداشرالا ءحص نم ققحتلا اضيأ نكمي، ققحتلا اذه لجا نم show version رمالآ مادختساب.

<#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 *****

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- 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
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- 3 Show Arbiter Status
- 4 Check Peer Connectivity
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- 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
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- 4 Check Peer Connectivity
- 5 Print Messages of AQ Task
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- 7 Dump To File: FMC HA Operations History (ASC order)
- 8 Last Successful Periodic Sync Time (When it completed)
- 9 Print HA Status Messages
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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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- 7 Dump To File: FMC HA Operations History (ASC order)
- 8 Last Successful Periodic Sync Time (When it completed)
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- 11 Check manager status of standby missing devices
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- 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

FMC-HA نم ققحتلا ىلإ FTD نم لاصتال

<#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 STATUSxx.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
```

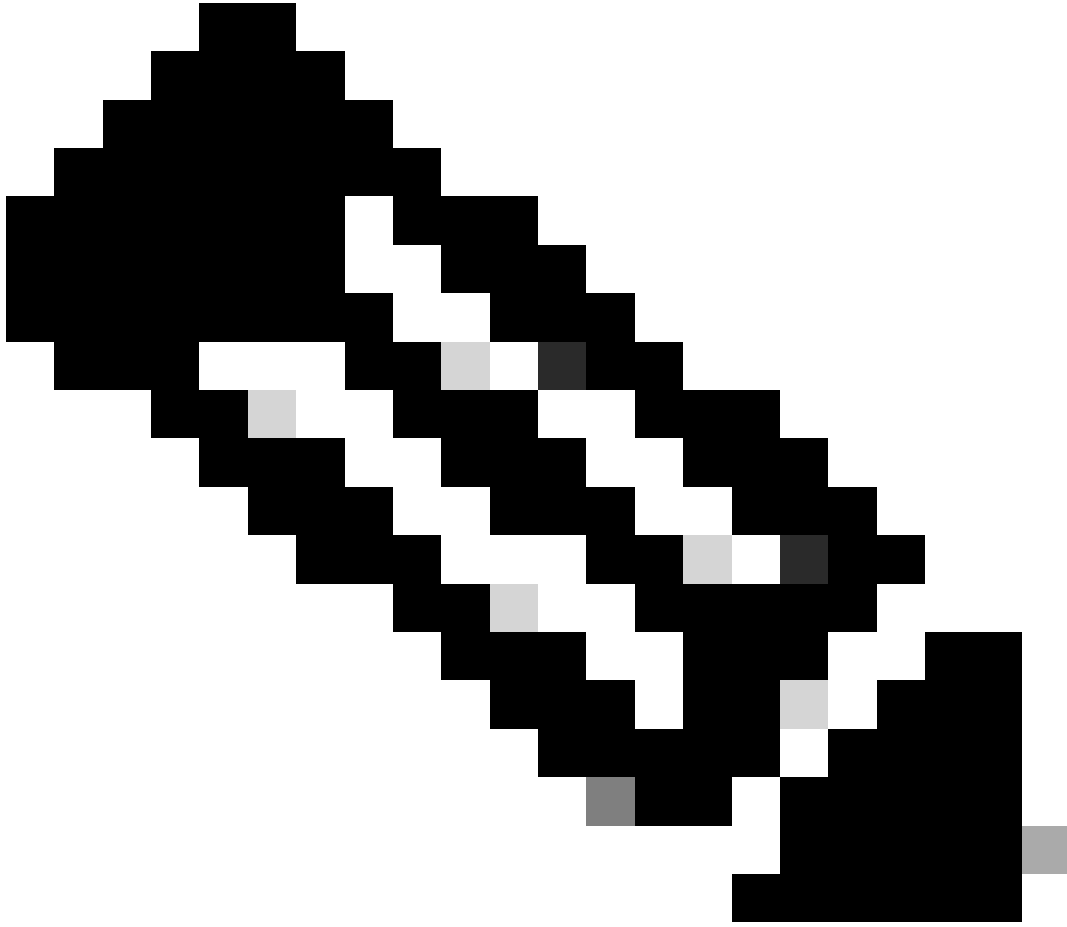
PEER INFO:

```
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



(FMC) ةرادإلا يف مكحتلا تادحوو يدحإ ةصاخلا قفنلا تامولعم دقف ةلاح يف: ةظحالم
رطخلل ريدم لاب لاصتالا ضرعت ىلا كلذ ري ش ي دق

```
<#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
```

ةمچرتل هذه لوح

ةللأل تاي نقتل نمة ومة م ادخت ساب دن تسمل اذة Cisco ت مچرت
ملاعلاء انء مچ م ف ن م دخت سمل م عد ى وت م م دقت ل ة يرش ب ل و
امك ة قى قد ن وكت ن ل ة للأل ة مچرت ل ض ف أن ة ظ حال م ى چر ى . ة ص اخل م هت ب
Cisco ي لخت . فرت م مچرت م ا م دقت ل ي ت ل ة ف ارت حال ة مچرت ل م ل ا حل و ه
ى ل ا م اء اد و چر ل اب ي ص و ت و ت ا مچرت ل هذه ة قد ن ع اه ت ل و ئ س م
Systems (رف و تم ط بار ل ا) ي ل ص أل ا ي زى ل چ ن ل ا دن تسمل ا