

# Threat Grid裝置與FMC整合的故障排除

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## 簡介

本文檔詳細介紹執行緒網格裝置(TGA)與Firepower管理中心(FMC)的整合。

## 必要條件

### 需求

思科建議您瞭解以下主題：

- Firepower管理FMC
- Threat Grid裝置基本配置
- 建立授權憑證(CA)
- Linux/Unix

### 採用元件

本文中的資訊係根據以下軟體和硬體版本：

- FMC版本6.6.1
- Threat Grid 2.12.2
- CentOS 8

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。

## 問題

在此用例場景中，您可以看到2個問題和兩個錯誤代碼。

## 案例 1

整合失敗，但有錯誤：

```
Sandbox registration failed: Peer certificate cannot be authenticated with given CA certificates (code = 60)
```

在此問題方面，問題與未以完整鏈結形式上傳到FMC的憑證相關。由於使用了CA簽名的證書，因此需要使用合併到單個PEM檔案中的整個證書鏈。換句話說，您應該從**Root CA > Intermediate Cert**（如果適用）> **Clean Int**開始。請參考[官方指南](#)中介紹要求和程式的文章。

如果CA有多個簽名鏈，則所有必需的中間證書和根證書必須包含在上傳到FMC的單個檔案中。

所有證書都必須採用PEM編碼。

檔案的新行必須是UNIX，而不是DOS。

如果Threat Grid裝置提供自簽名證書，請上傳您從該裝置下載的證書。

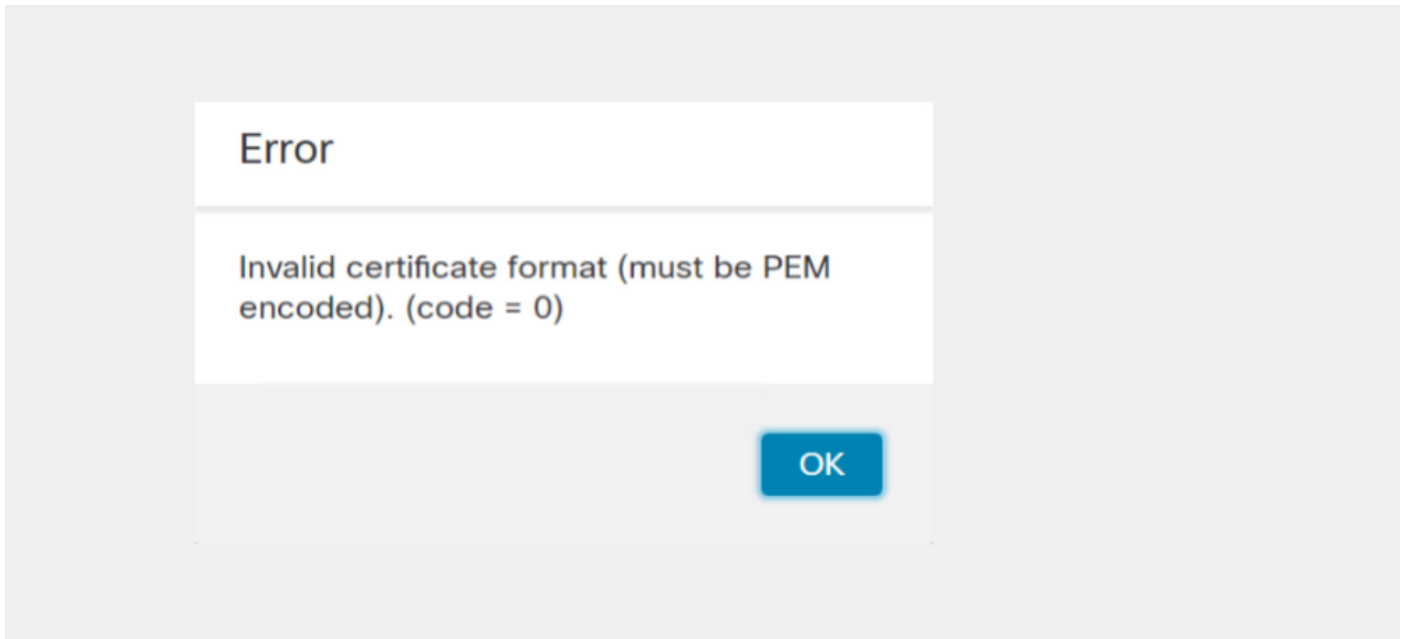
如果Threat Grid裝置顯示CA簽名的證書，請上傳包含證書簽名鏈的檔案。

## 案例 2

無效的證書格式錯誤

```
Invalid Certificate format (must be PEM encoded) (code=0)
```

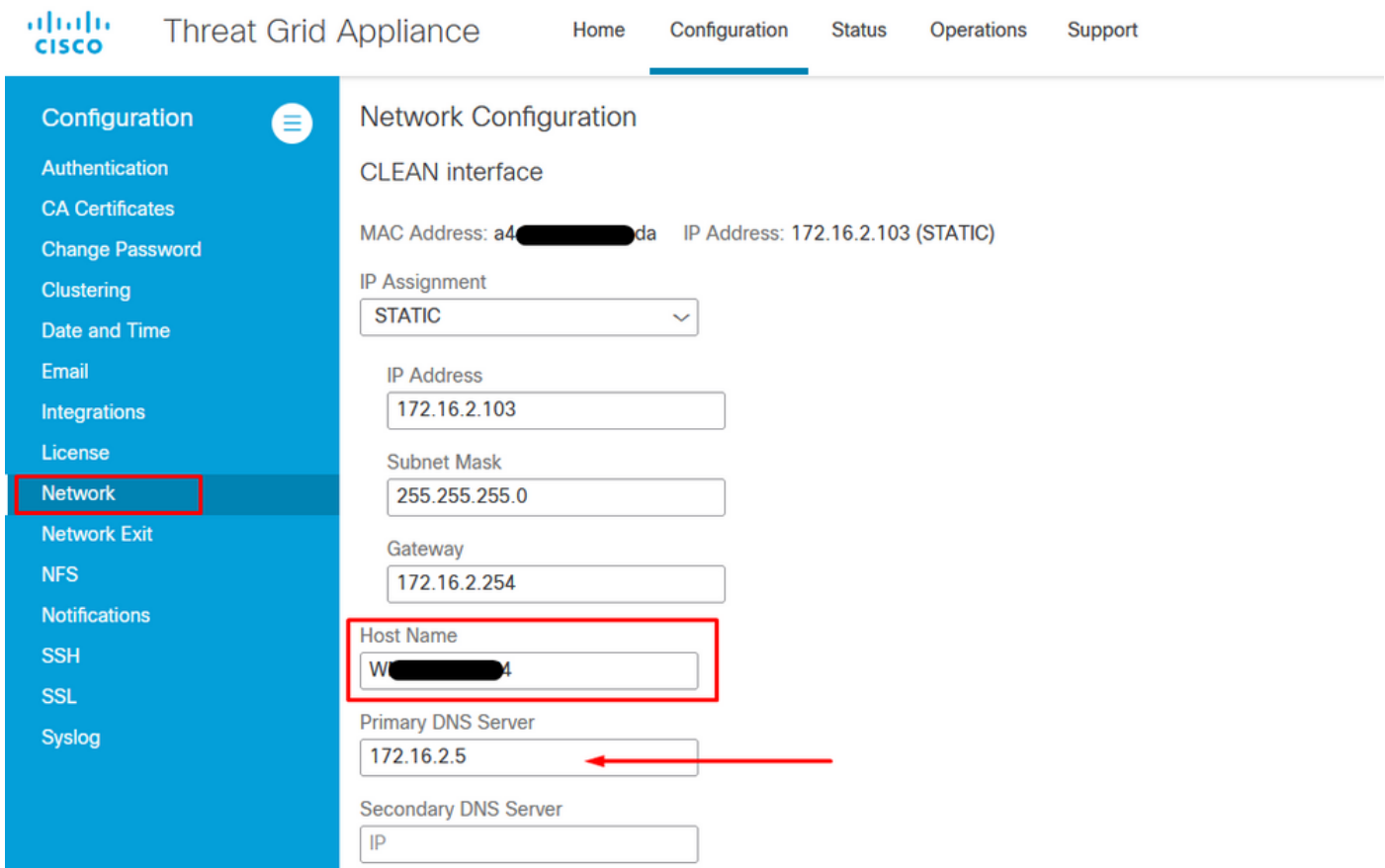
憑證格式錯誤，如下圖所示。



此錯誤是由於在使用OpenSSL的Windows機器上建立的組合PEM憑證的格式錯誤所致。強烈建議使用Linux電腦建立此證書。

**整合**

步驟1.配置TGA，如下圖所示。



ADMIN interface

MAC Address: 40: [REDACTED] 80 IP Address: 10 [REDACTED] 8.30 (STATIC)

IP Assignment

STATIC

IP Address

10 [REDACTED] 30

Subnet Mask

255.255.255.192

Gateway

10 [REDACTED] 1

Host Name

TG-M5

Save

Activate

Host (A)

Security

Host (uses parent domain if left blank):

W [REDACTED] M4

Fully qualified domain name (FQDN):

W [REDACTED] .com

IP address:

172.16.2.103

Update associated pointer (PTR) record

Host (A) Security

Host (uses parent domain if left blank):  
TG-M5

Fully qualified domain name (FQDN):  
TG-██████.com

IP address:  
10-██████-18.30

Update associated pointer (PTR) record

## 用於Clean Admin介面的內部CA簽名證書

步驟1.生成用於管理介面和乾淨介面的私鑰。

```
openssl ecparam -name secp521r1 -genkey -out private-ec-key.pem
```

步驟2.產生CSR。

### 清潔介面

步驟1.導航到CSR建立並使用生成的私鑰。

```
openssl req -new -key private-ec-key.pem -out MYCSR.csr
```

**附註：**必須為CSR輸入CN名稱，並且必須與在「Network」下定義的清理介面的主機名匹配。DNS伺服器上必須存在DNS條目，該條目將解析Clean介面主機名。

Configuration

Authentication

CA Certificates

Change Password

Clustering

Date and Time

Email

Integrations

License

Network

Network Exit

NFS

Notifications

SSH

SSL

Syslog

Network Configuration

CLEAN interface

MAC Address: a4[redacted]da IP Address: 172.16.2.103 (STATIC)

IP Assignment

STATIC

IP Address

172.16.2.103

Subnet Mask

255.255.255.0

Gateway

172.16.2.254

Host Name

W[redacted]4

Primary DNS Server

172.16.2.5

Secondary DNS Server

IP

管理員介面

步驟1。導覽至CSR建立並使用產生的私密金鑰。

```
openssl req -new -key private-ec-key.pem -out MYCSR.csr
```

**附註：**必須為CSR輸入CN名稱，並且必須與「Network」下定義的「admin interface」的「hostname」匹配。DNS伺服器上必須存在DNS條目，該條目將解析乾淨介面主機名。

ADMIN interface

MAC Address: 40[redacted]80 IP Address: 10 8.30 (STATIC)

IP Assignment

STATIC

IP Address

10[redacted]30

Subnet Mask

255.255.255.192

Gateway

10[redacted].1

Host Name

TG-M5

Save

Activate

步驟2.由CA簽署CSR。下載帶有CER擴展的DER格式的證書。

步驟3.將CER轉換為PEM。

```
openssl x509 -inform DER -outform PEM -in xxxx.cer -out yyyy.pem
```

### 清除將CSR和CER連線到PEM的介面

```
C:\Users\Administrator\Downloads\IG\FMC>openssl req -new -key step7-1-private-ec-key.pem -out clean-csr.csr
You are about to be asked to enter information that will be incorporated into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.
-----
Country Name (2 letter code) [AU]:
State or Province Name (full name) [Some-State]:
Locality Name (eg, city) []:
Organization Name (eg, company) [Internet Widgits Pty Ltd]:PPJ
Organizational Unit Name (eg, section) []:IT
Common Name (e.g. server FQDN or YOUR name) []:WME.com
Email Address []:

Please enter the following 'extra' attributes
to be sent with your certificate request
A challenge password []:Cisco@123
An optional company name []:PPJ

C:\Users\Administrator\Downloads\IG\FMC>openssl x509 -inform DER -outform PEM -in Clean-interface_CSR_CA-signed_DER_CER.cer -out Clean-interface_CSR_CA-signed_DER_PEM.pem
```

### 管理介面CSR和CER到PEM

```
C:\Users\Administrator\Downloads\IG\FMC>openssl req -new -key step7-1-private-ec-key.pem -out Admin-interface_CSR.csr
You are about to be asked to enter information that will be incorporated into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.
-----
Country Name (2 letter code) [AU]:
State or Province Name (full name) [Some-State]:
Locality Name (eg, city) []:
Organization Name (eg, company) [Internet Widgits Pty Ltd]:PPJ
Organizational Unit Name (eg, section) []:IT
Common Name (e.g. server FQDN or YOUR name) []:IG.com
Email Address []:

Please enter the following 'extra' attributes
to be sent with your certificate request
A challenge password []:Cisco@123
An optional company name []:PPJ

C:\Users\Administrator\Downloads\IG\FMC>openssl x509 -inform DER -outform PEM -in Admin-interface_CSR_CA-signed_DER_CER.cer -out Admin-interface_CSR_CA-signed_DER_PEM.pem
```

### FMC證書的正確格式

如果您已經獲得證書，並且證書採用CER/CRT格式，在使用文本編輯器時是可讀的，則只需將副檔名更改為PEM即可。

如果證書不可讀，您需要將DER格式轉換為PEM可讀格式。

```
openssl x509 -inform DER -outform PEM -in xxxx.cer -out yyyy.pem
```

## PEM

PEM可讀格式示例，如圖所示。

```
1 |-----BEGIN CERTIFICATE-----  
2 | MIIIFozCCA4ugAwIBAgITGQAAAALex/EgACaWIAAAAAAAAAjANBgkqhkiG9w0BAQUF  
3 | ADAAMRgwFgYDVQQDEw9Ub21EZW1vIFJvb3QgQ0EwHhcNMTQwMjA3MTQwMTU3WncN  
4 | MjQwMjA3MTQxMTU3WjBKMRIwEAYKcZImiZPyLGQBGRYCC2UxFzAVBgoJkiaJk/Is  
5 | ZAEZFgd0b21kZW1vMRswGQYDVQDEwJUB21EZW1vIElzc3VpbmcgQ0EwggEiMA0G  
6 | CSqGSIB3DQEBAQUAA4IBDwAwggEKAoIBAQC8XmXxLHo0M/521CFtI4DSN6qVNaN  
7 | 8jxujS4PSSRnQtaqpbjbcAZpvyYysNt2uWA40urkxY2nyn4SMY/21S4L9x10u8su  
8 | W+/4T2dcFgQKzFiNyqVklOp9vRKnCKjceD+FRKXbPCSZyy4Hhz/XCgwPRfaobx+q  
9 | aV1fSnW0P[REDACTED]a2MHx60jf  
10 | BhdyONMrZxmQeYgFPumd2o3x+lyq1406hIF7LLGFAoDdqi3R31D9OPb7+Dm2ezv0  
11 | OKkbCHdj13inB3D1tg1L8mZeIEte+07RvlQXr33um06zeYi4okbaHZLvAgMBAAGj  
12 | ggGwMIIBrDAQBgkrBgEEAYI3FQEEAwIBADAdBgNVHQ4EFgQU0+wPInpDnoqnuIlx  
13 | BtUbIGLdS1UwgYsGA1UdIASBgZCBgDB+BgorBgEEAYKdZwEBMHAwPgYIKwYBBQUH  
14 | AgIwMh4wAFQAbwBtAEQAQZQBtAG8AIAABQAG8AbABpAGMAeQAgaFMAdABhAHQAQZQBt  
15 | AGUAbgB0MC4GCCsGAQUFBwIBFiJodHRwOi8vcGtpLnRvbWRlbW8uc2UvcGtpL2Nw  
16 | cy5odG0AMBkGCSsGAQQBgjcUAUgQMhGoAUwB1AGIAQwBBMAsGA1UdDwQEAWIBhjAP  
17 | BgNVHRMBAf8EBTADAQH/MB8GA1UdIwQYMBaAFL00e0rG2ExZ1dmboIuLwgGgPr5e  
18 | MEIGA1UdH[REDACTED]y5zZS9wa2kvVG9t  
19 | RGVtbyUyMFJvb3Q1MjBDQS5jcmwwTQYIKwYBBQUHAQEETQA/MD0GCCsGAQUFBzAC  
20 | hjFodHRwOi8vcGtpLnRvbWRlbW8uc2UvcGtpL1RvbURlbW81MjBSb290JTIwQ0Eu  
21 | Y3J0MA0GCSqGSIB3DQEBBQUAA4ICAQBBkNHalbX3kpkOXCV3nQ9R4CyG61WI90gL  
22 | 57uGRcpulSqUu790J5s4x1W8rhm32db7qvHDPaYED23gudpOSHyyUyWZTFbwzm92c  
23 | e1wZpyJH6nsuqNFDTYQTdWAq8zwCrldeUFRW301mkPuhENjttqCIJ9KeLrwCaM/p  
24 | QVy7qWoTU14/BY+OsLXDGURXrGejcVs8ZQy4bqhmh0TfelTcAOAX47pVt8XdnWFe  
25 | Vnu/rwuOnfvlyiWW62cknAATaagnLXdbFWIxnVS1booZmYXXQqelFxFJv1bhNdWM9  
26 | tgdq3t2qBXj3P7XiD+OWfzkABGMJrmki55LNpl0/oV+Kw3DuyGYLurq6TWW1Ji8J  
27 | 94GJm9VQBx1PylFQn0hILcxgr+LAIKX0PqXTyRCp1/UGH1ih05S1F4GvPEj0s1BA  
28 | ebRkDrN2vU+9kq8UXOhzxierQDmJkCOpSUWV6Pk6/OP72vxIuAQQNdY++cJRwzi+  
29 | adWp6cZBzW5h3OdKlyEDdjNB75rzQcwMlerYTABSIAK6KCTNb7OF4kTW1B5R1WqD  
30 | VxyboYEbf0ym5CiNmDKUXqQMI45FIztDhYjJqn1NeroJUZnUYa9y63zuJy2uyQeG  
31 | EVWpXscPOfrcrCfSuvx0KsMiLxuclfvJyCAJqBMG++LgWxhb247CvhSDK2wZrq0+  
32 | Q70p0WaYww==
```

## DER

DER可讀格式示例，如圖所示



```
1 0, ENQ, ETX< ETXSTX SOH STX STX DC3 EM NUL NUL NUL STX BÇñ NUL &-
NUL NUL NUL NUL NUL STX 0
2 ACK *tHt÷
3 SOH SOH ENQ ENQ NUL 0 SUB 1 CAN 0 SYN ACK ETX U EOT ETX DC3 SI. CA0 RSETB
4 140207140157Z ETB
5 240207141157Z0J1 DC2 0 DLE ACK
6 ' &% "ò, d SOH EM SYN STX se1 ETB 0 NAK ACK
7 ' &% "ò, d SOH EM SYN BEL 1 ESC 0 EM ACK ETX U EOT ETX DC3 DC2
Issuing CA0, SOH" 0
8 ACK *tHt÷
9 SOH SOH SOH ENQ NUL ETX, SOH SI NUL 0, SOH
10 STX, SOH SOH NUL Æñy-Ä±èÐÏùÛP... Ž ETX HP^TÐ
11 ò<n. SI I $g BÖ^¥, Ûp ACK i>¶2°Ûv» NUL 8 òèäÅ$Ê~ DC2 3/òÖ. VI ÷ GS t»È. [iè0g\SYNEOT
12 ÌXÊ¥d. Š)» DC2 $BS "Üx?...DYÛ<$"È. BEL +?×
13 FFSTIEö"o US^i]_Ju' ?£1Um US^BEòFÁ...»EDÛÖ;) EOT òcoú0 NAK; Á·'òÁ"Z0ÁñèHB ACK ETB
r8Ó+g EM y^ ENQ=IÚñú\^*×:„{, ±... STX eY^ -ÑBPý8òùø9¶{; ò8@ESCBS wc-x$BEL pð¶
14 Kòf^
K^ûNÑ*¶I ETB }i f'y^, cFÚGS' i STX ETX SOH NUL SOH £, SOH °0, SOH -0 DLE ACK
+ACK SOH EOT SOH, 7 NAK SOH EOT ETX STX SOH NUL 0 GS ACK ETX U GS SOH EOT SYNEOT DC4 Ói
SI"zCžŠ$ ,kq ACK ÒESC bÝKU0< ACK ETX UGS EOT f0è0~ACK
15 +ACK SOH EOT SOH, g SOH SOH 0p0> ACK BS+ACK SOH ENQ ENQ BEL STX STX 02 RS 0 NUL T NUL 0
NUL m NUL D NUL e NUL m NUL 0 NUL NUL P NUL 0 NUL 1 NUL i NUL c NUL y NUL
NUL S NUL t NUL a NUL t NUL e NUL m NUL e NUL n NUL t 0. ACK BS+ACK SOH ENQ ENQ BEL STX SOH
SYN' .htm NUL 0 EM ACK
+ACK SOH EOT SOH, 7 DC4 STX EOT EERS
16 NUL S NUL u NUL b NUL C NUL A 0 VI ACK ETX U GS SI EOT EOT ETX STX SOH +0 SI ACK ETX U GS
DC3 SOH SOH y EOT ENQ 0 ETX SOH SOH y 0 US ACK ETX U GS # EOT CAN 0 SYN € DC4 ¶4 {JEØLYÖÙ>
<< Æ SOH > *0B ACK ETX U GS SI SEOT :0907 5 3+1
```

### 在Windows和Linux中建立的證書之間的差異

您可以在記事本++中使用Compare外掛來將兩個證書並排進行簡單比較，並詳細描述行#68中的編碼差異。在左側，您可以看到在Windows中建立的證書，在右側，您可以看到在Linux電腦上生成的證書。左側的憑證有回車符，因此該憑證PEM對FMC無效。但是，除了記事本頁面中的那一行之外，您無法區分文本編輯器中的++同。



```
[admin@localhost Desktop]$ od -c MRJCA.cer
0000000  -  -  -  -  -  B  E  G  I  N  C  E  R  T  I
0000020  F  I  C  A  T  E  -  -  -  -  -  \r  \n  M  T  I  I
0000040  G  t  D  C  C  B  Z  y  g  A  w  \r  \n  B  A  I  g  I
0000060  T  R  Q  A  A  A  P  n  p  l  y  I  n  B  A  O  h  j
0000100  Z  a  w  A  E  A  A  A  A  +  T  A  N  B  O  g  h  k
0000120  q  h  k  i  G  9  w  0  B  A  Q  s  F  \r  \n  k  A  i
0000140  D  B  O  M  R  U  w  E  w  Y  K  C  Z  \r  \n  m  j  Y  k
0000160  Z  P  y  L  G  Q  B  G  R  Y  F  T  G  9  j  Y  k
0000200  U  w  x  F  z  A  V  B  g  o  J  k  i  a  j  j  k
0000220  /  I  s  Z  A  E  Z  F  g  d  P  c  2  9  j  \r  Q
0000240  \n  L  W  p  v  M  R  w  w  G  g  Y  D  V  Q  Q
0000260  D  E  x  N  P  c  2  9  j  L  W  p  v  L  U  N
0000300  D  T  l  R  E  Q  z  A  y  L  U  N  B  M  B  4
0000320  X  D  T  I  x  M  D  Q  w  N  D  I  x  M  j  U  N
0000340  x  \r  \n  M  l  o  X  D  T  I  z  M  D  Q  j  w  N
0000360  D  \r  \n  x  M  j  U  x  M  l  o  w  J  j  E  k  M
0000400  C  I  G  A  l  U  E  A  x  M  b  T  V  J  K  L
0000420  U  F  N  H  C  l  U  R  y  l  N  N  S  0  w  M
0000440  S  5  q  \r  \n  d  C  5  q  d  G  d  y  b  3  V
0000460  w  M  I  \r  \n  B  I  j  A  N  B  g  k  q  h  k  i
0000500  G  9  w  0  B  A  Q  E  F  A  A  O  C  A  Q  8
0000520  A  M  I  I  B  C  g  K  C  A  Q  E  A  s  g  4
0000540  Z  s  m  o  Y  \r  \n  w  T  2  Q  Y  O  7  h  h
0000560  z  d  8  b  +  \r  \n  k  b  s  U  M  c  Q  Q  0  5  0
0000600  p  o  g  q  v  e  l  Q  5  2  G  7  T  m  w  e
0000620  +  v  m  q  +  E  Y  H  W  b  B  T  g  D  9  9
0000640  K  D  l  x  R  o  l  \r  \n  0  S  y  I  g  3  W
0000660  k  i  l  M  p  I  l  u  P  i  0  E  U  H  d  A
0000700  c  2  T  q  A  d  w  0  r  e  E  M  k  H  l  F
0000720  n  Q  5  4  G  J  l  w  Z  6  S  o  h  I  9  J
0000740  2  8  h  /  L  k  R  f  8  \r  \n  Z  3  5  B  q
0000760  q  F  o  x  p  s  8  s  0  k  p  7  1  o  7  H
0001000  A  1  b  x  q  b  4  5  t  t  U  U  N  n  /  i
```

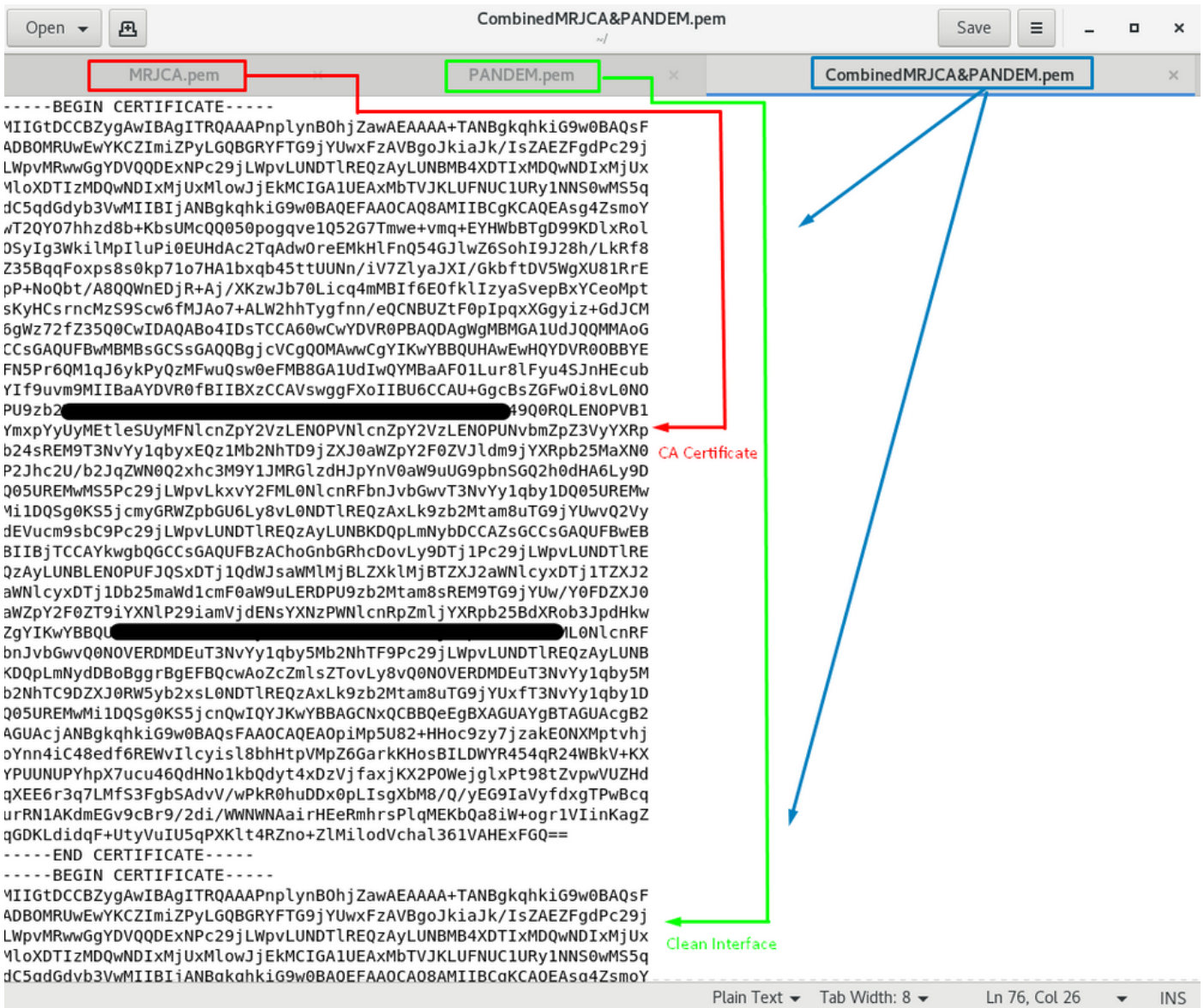
通過Linux電腦運行證書之後。

```
[admin@localhost Desktop]$ od -c MRJCA.pem
00000000  -  -  -  -  -  B  E  G  I  N  C  E  R  T  I
00000020  F  I  C  A  T  E  -  -  -  -  \n  M  I  I  G
00000040  t  D  C  C  B  Z  y  g  A  w  I  B  A  g  I  T
00000060  R  Q  A  A  A  P  n  p  l  y  n  B  O  h  j  Z
00000100  a  w  A  E  A  A  A  A  +  T  A  N  B  g  k  q
00000120  h  k  i  G  9  w  0  B  A  Q  s  F  \n  A  D  B
00000140  O  M  R  U  w  E  w  Y  K  C  Z  I  \n  i  Z  P
00000160  y  L  G  Q  B  G  R  Y  F  T  G  9  j  Y  U  w
00000200  x  F  z  A  V  B  g  o  J  k  i  a  J  k  /  I
00000220  s  Z  A  E  Z  F  g  d  P  c  2  9  j  \n  L  W
00000240  p  v  M  R  w  w  G  g  Y  D  V  Q  Q  D  E  x
00000260  N  P  c  2  9  j  L  W  p  v  L  U  N  D  T  l
00000300  R  E  Q  z  A  y  L  U  N  B  M  B  4  X  D  T
00000320  I  x  M  D  Q  w  N  D  I  x  M  j  U  x  \n  M
00000340  l  o  X  D  T  I  z  M  D  Q  w  N  D  I  x  M
00000360  j  U  x  M  l  o  w  J  j  E  k  M  C  I  G  A
00000400  l  U  E  A  x  M  b  T  V  J  K  L  U  F  N  U
00000420  C  l  U  R  y  l  N  N  S  0  w  M  S  5  q  \n
00000440  d  C  5  q  d  G  d  y  b  3  V  w  M  I  I  B
00000460  I  j  A  N  B  g  k  q  h  k  i  G  9  w  0  B
00000500  A  Q  E  F  A  A  O  C  A  Q  8  A  M  I  I  B
00000520  C  g  K  C  A  Q  E  A  s  g  4  Z  s  m  o  Y
00000540  \n  w  T  2  Q  Y  0  7  h  h  z  d  8  b  +  K
00000560  b  s  U  M  c  Q  Q  0  5  0  p  o  g  q  v  e
00000600  l  Q  5  2  G  7  T  m  w  e  +  v  m  q  +  E
00000620  Y  H  W  b  B  T  g  D  9  9  K  D  l  x  R  o
00000640  l  \n  0  S  y  I  g  3  W  k  i  l  M  p  I  l
00000660  u  P  i  0  E  U  H  d  A  c  2  T  q  A  d  w
00000700  O  r  e  E  M  k  H  l  F  n  Q  5  4  G  J  l
00000720  w  Z  6  S  o  h  I  9  J  2  8  h  /  L  k  R
00000740  f  8  \n  Z  3  5  B  q  q  F  o  x  p  s  8  s
00000760  0  k  p  7  l  o  7  H  A  l  b  x  q  b  4  5
00010000  t  t  U  U  N  n  /  i  V  7  Z  l  y  a  J  X
```

對於FMC，在Linux電腦上結合Root\_CA和無回車證書，請使用下一個命令。

```
cat
例如，cat Clean-interface_CSR_CA-signed_DER_CER_PEM_no-carriage.pem Root-CA.pem >
combine.pem。
```

或者，也可以在Linux電腦中開啟一個新的文本編輯器，將刪除回車的Clean證書合併到一個檔案中，然後使用.PEM副檔名儲存該檔案。您必須將CA證書放在頂部，將Clean Interface證書放在底部。

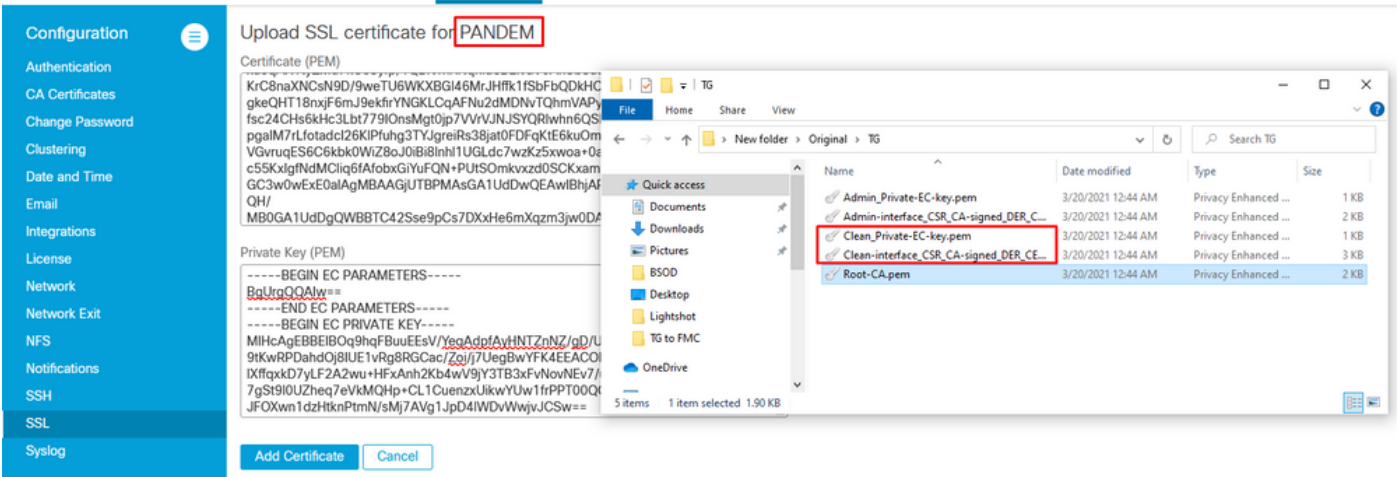


該證書必須是您稍後上傳到FMC以與TG裝置整合的證書。

## 證書上傳到TG裝置和FMC

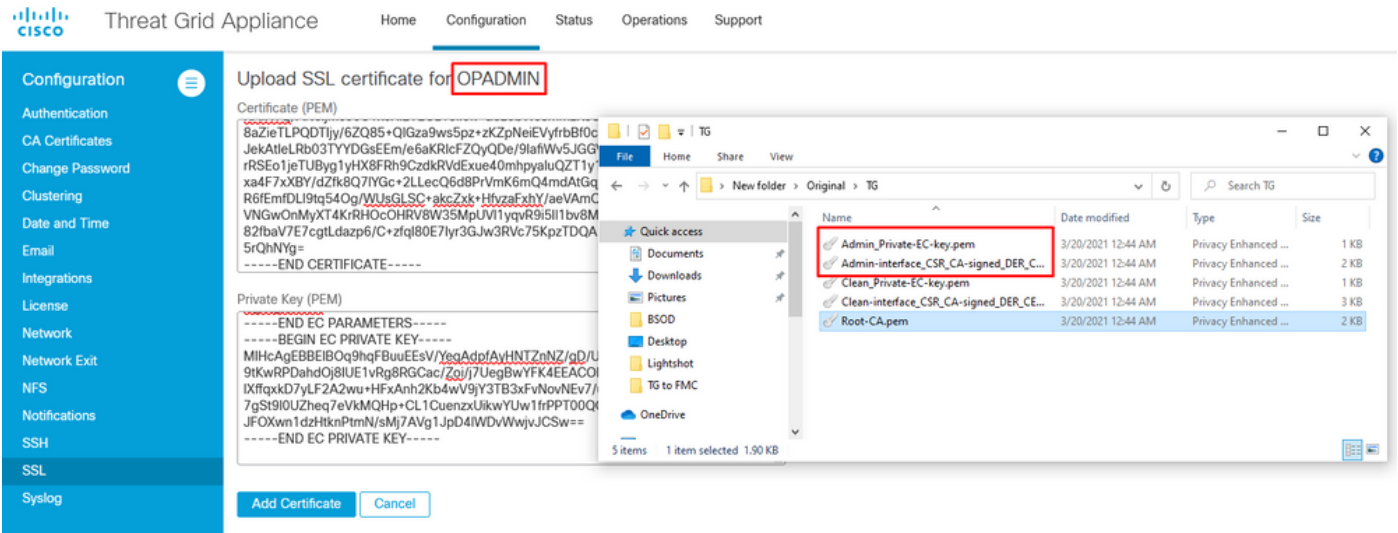
### 上傳乾淨介面的證書

導覽至Configuration > SSL > PANDEM - Actions Upload New Certificate > Add Certificate，如下圖所示。



## 上傳管理員介面的證書

導覽至 Configuration > SSL > OPADMIN - Actions Upload New Certificate > Add Certificate，如下圖所示。



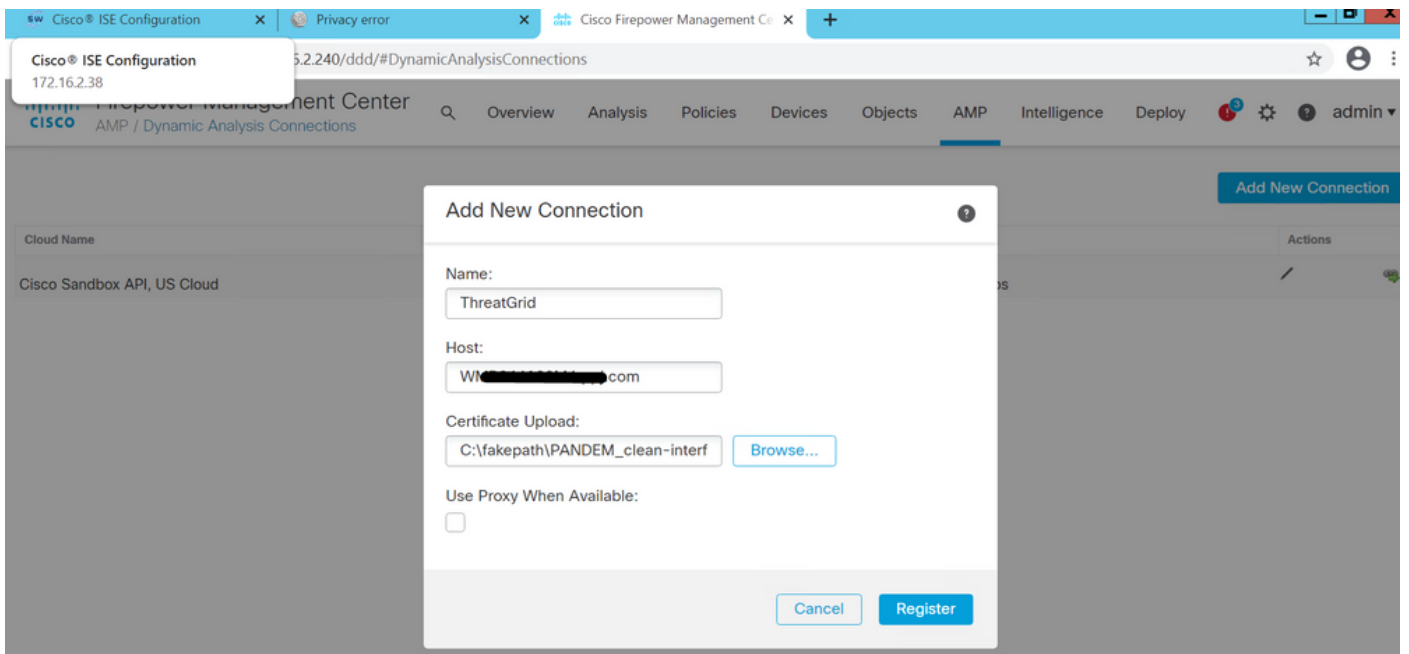
## 將證書上傳到FMC

若要將憑證上傳到FMC，請導覽至 AMP > Dynamic Analysis Connections > Add New Connection，然後填寫所需的資訊。

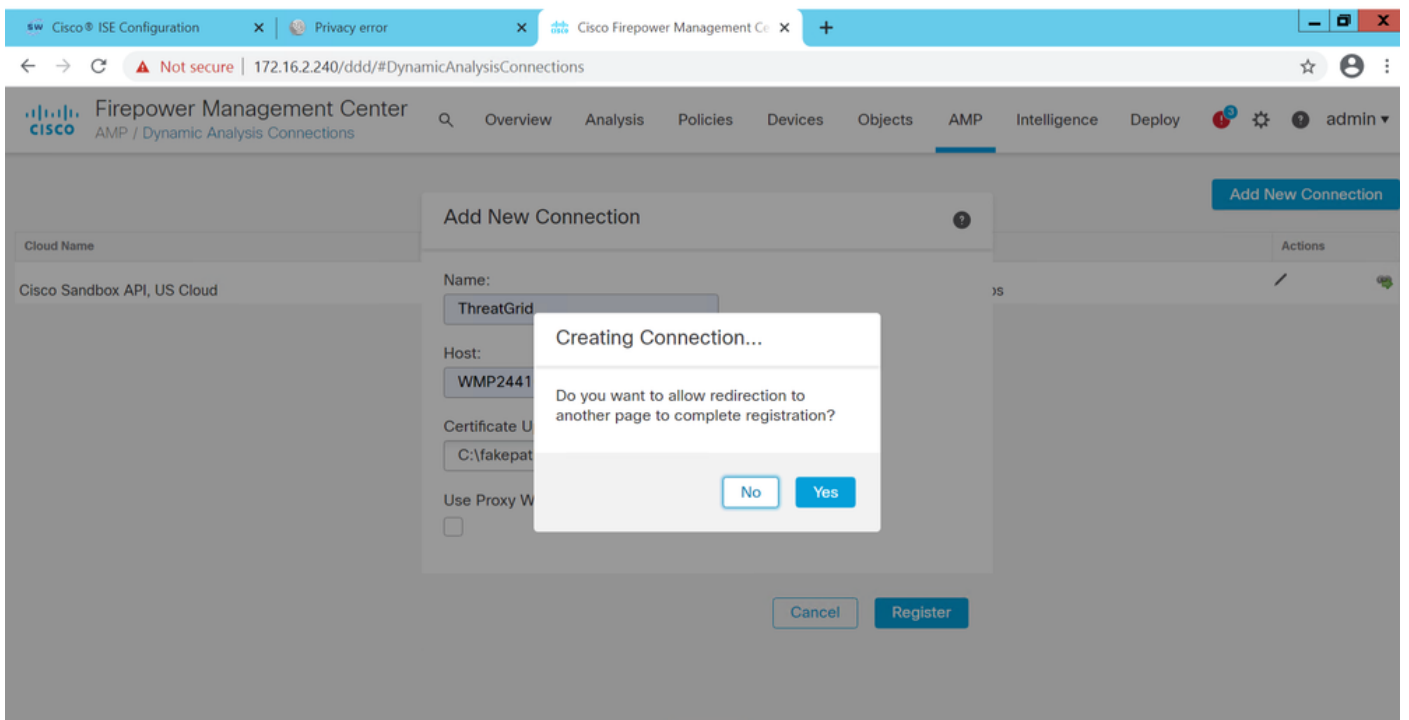
**名稱:**要標識的任何名稱。

**主機：**清潔介面FQDN，在生成清潔介面的CSR時定義

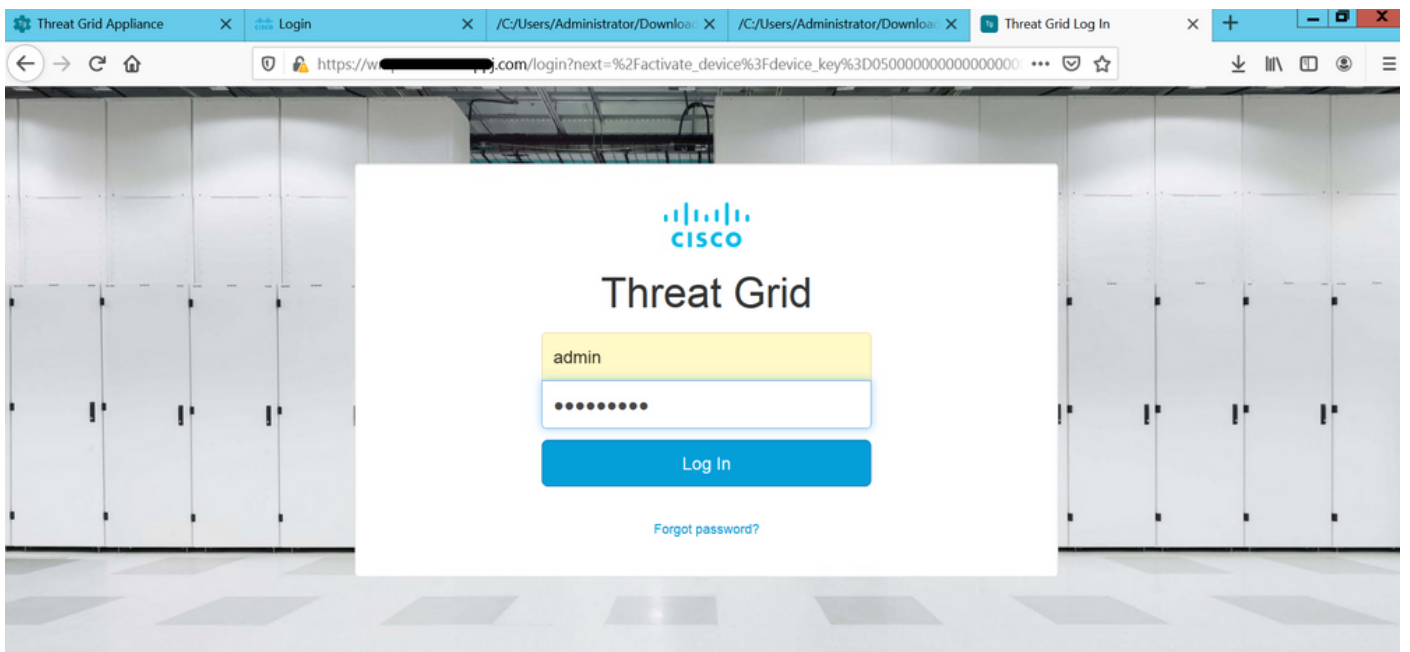
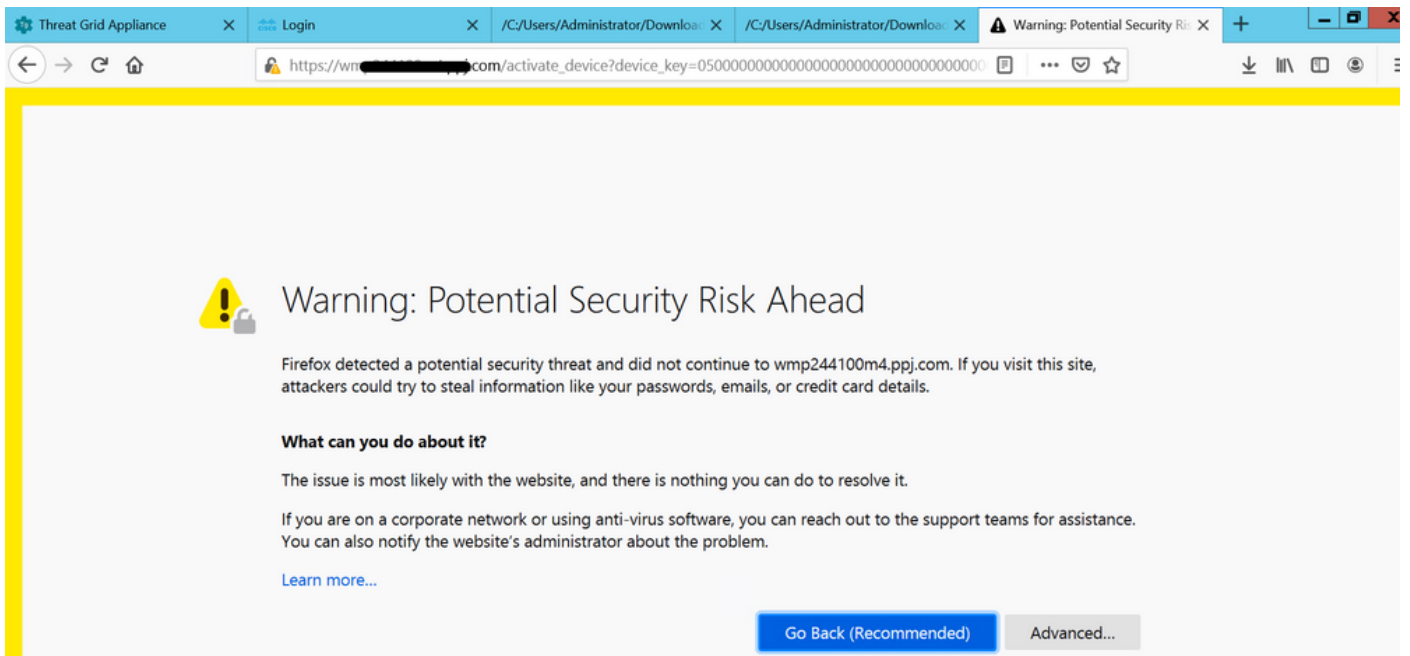
**證書：**ROOT\_CA和clean interface\_no-carriage的組合證書。



註冊新連線後，將顯示一個彈出視窗，按一下**Yes**按鈕。

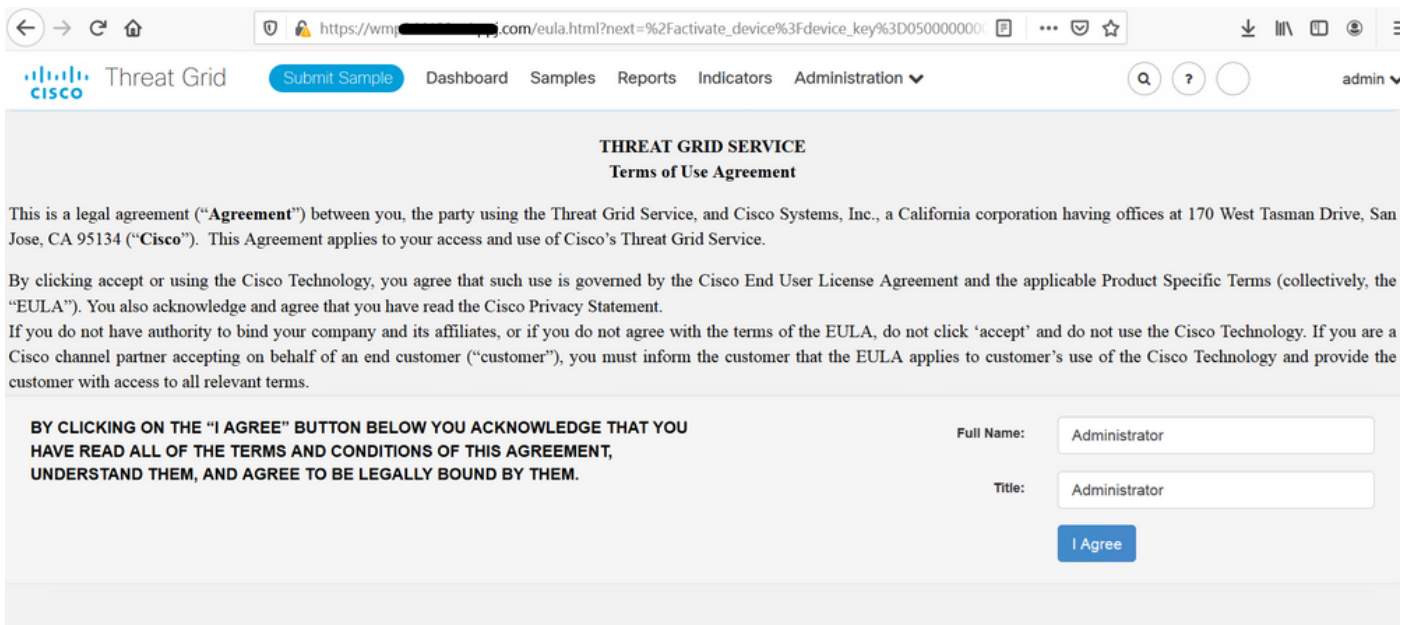


頁面重定向至TG Clean介面和登入提示，如圖所示。

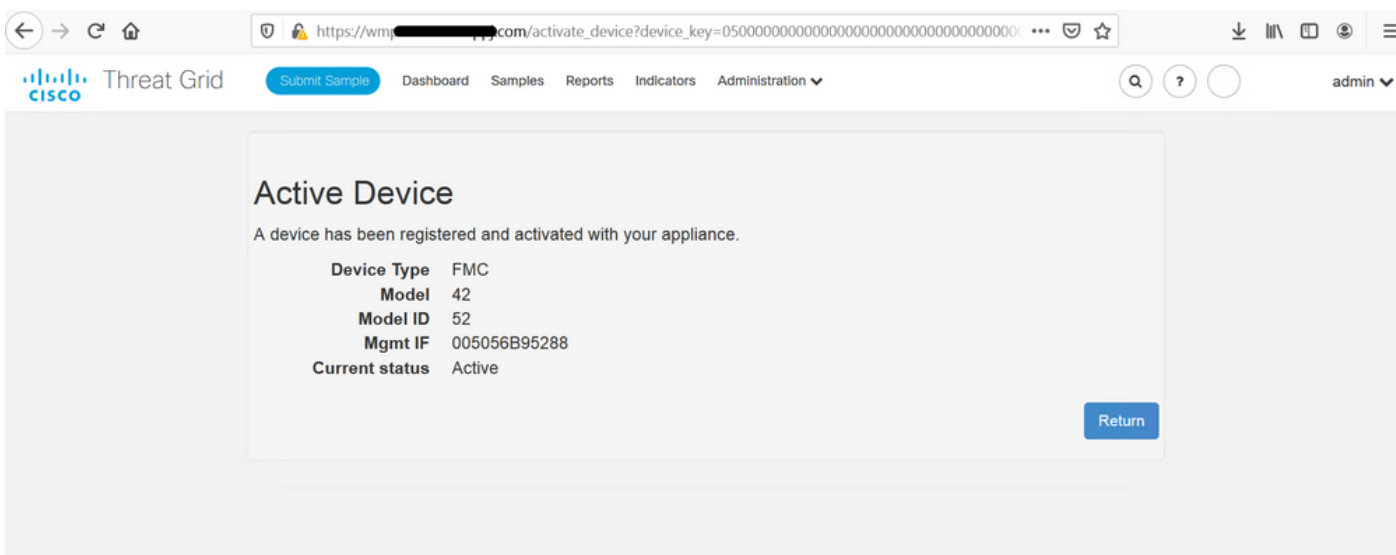


接受EULA。

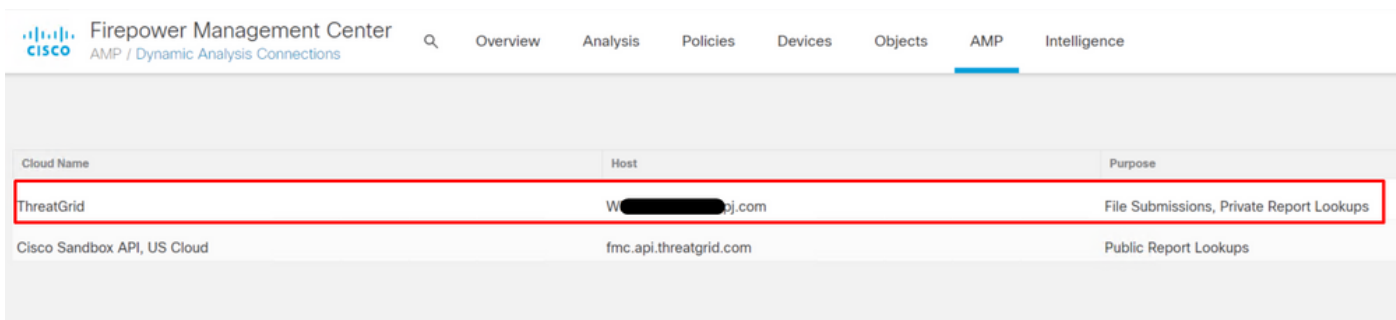




成功整合將顯示活動裝置，如下圖所示。



按一下「**Return**」，返回FMC，成功整合TG，如下圖所示。



## 相關資訊

- [Firepower管理中心配置指南6.6版](#)
- [技術支援與文件 - Cisco Systems](#)