# **Troubleshoot of Threat Grid Appliance** Integration with FMC

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## Introduction

This document describes in detail Thread Grid Appliance (TGA) integration with Firepower Management Center (FMC).

## Prerequisites

## Requirements

Cisco recommends that you have knowledge of these topics:

- Firepower Management FMC
- Threat Grid Appliance Basic Configuration
- Create Certificates of Authority (CA)
- Linux/Unix

## **Components Used**

The information in this document is based on these software and hardware versions:

- FMC version 6.6.1
- Threat Grid 2.12.2
- CentOS 8

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

#### Problem

In this used case scenario, you can see 2 issues and two error codes.

## Scenario 1

The integration fails with errors:

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

When it comes to this problem, the issue is related to the certificate that is not uploaded into FMC as a complete chain. Since the CA-signed certificate was used, the entire certificate chain combined into one single PEM file needs to be used. In another word you start with **Root CA > Intermediate Cert** (if applicable) **> Clean Int**. Please refer to <u>this article</u> from the official guide that describes the requirements and procedure.

If there is a multi-level signing chain of CAs, all required intermediate certificates, and the root certificate must be contained in a single file that is uploaded to the FMC.

All certificates must be PEM-encoded.

The file's newlines must be UNIX, not DOS.

If the Threat Grid appliance presents a self-signed certificate, upload the certificate you downloaded from that appliance.

If the Threat Grid appliance presents a CA-signed certificate, upload the file that contains the certificate signing chain.

## Scenario 2

Invalid Certificate format error

Invalid Certificate format (must be PEM encoded) (code=0) Certificate format error, as shown in the image.



This error is due to the wrong formatting of the combined PEM certificate created on the Windows machine that uses OpenSSL. It is highly recommended to use a Linux machine to create this certificate.

#### Integration

Step 1. Configure the TGA, as shown in the images.

cisco Threat Grid	Appliance Home Configuration Status Operations Support
Configuration	Network Configuration
Authentication	CLEAN interface
CA Certificates Change Password	MAC Address: a4 IP Address: 172.16.2.103 (STATIC)
Clustering	IP Assignment
Date and Time	STATIC ~
Email	IP Address
Integrations	172.16.2.103
License	Subnet Mask
Network	255.255.255.0
Network Exit	Gateway
NFS	172.16.2.254
Notifications	Hest Name
SSH	
SSL	
Syslog	Primary DNS Server
	172.10.2.5
	Secondary DNS Server

ADMIN interface MAC Address: 40. 20 IP Address: 10 8.30 (STATIC) IP Assignment STATIC IP Address 10 30 Subnet Mask 255.255.192 Gateway 10 1 Host Name TG-M5
Save Activate
Host (A) Security
Host (uses parent domain if left blank):
W M4
Fully qualified domain name (EQDN):
Were com
IP address:
1/2.10.2.103
<ul> <li>Update associated pointer (PTR) record</li> </ul>

Host (A)	Security				
<u>H</u> ost (us	es parent domain if left blank):				
TG-M5					
<u>Fully qualified domain name (FQDN):</u>					
TC	.com				
I <u>P</u> addre	SS:				
10	18.30				
Upda	ate associated pointer (PTR) record				

## Internal CA-signed Certificates for Clean Admin interface

Step 1. Generate the private key which is used for both admin and clean interface.

openssl ecparam -name secp521r1 -genkey -out private-ec-key.pem Step 2. Generate CSR.

#### **Clean interface**

Step 1. Navigate to the CSR creation and use the private key generated.

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

**Note**: The CN name must be entered for CSR and must match the hostname of the Clean interface defined under 'Network'. A DNS entry must be present on the DNS server which resolves the Clean interface hostname.

### **Admin Interface**

Step1. Navigate to the CSR creation and use the private key generated.

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

**Note**: The CN name must be entered for CSR and must match the 'hostname' of the 'admin interface' defined under 'Network'. A DNS entry must be present on the DNS server which resolves the clean interface hostname.

ADMIN interface
MAC Address: 40: 80 IP Address: 10 8.30 (STATIC)
IP Assignment V
IP Address 10 30
Subnet Mask 255.255.255.192
Gateway
Host Name TG-M5
Save Activate

Step 2. CSR is to be signed by CA. Download the certificate in DER format with the CER extension.

Step 3. Convert CER to PEM.

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

#### Clean interface CSR and CER to PEM

#### Admin interface CSR and CER to PEM

#### Proper format of the Certificate for FMC

If you already got provided with certificates and they are in CER/CRT format and readable when a text editor is used, you can just simply change the extension to PEM.

If the certificate is not readable you need to convert the DER format to PEM readable format.

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

### PEM

Example of PEM readable format, as shown in the image.

1	BEGIN CERTIFICATE 🔫
2	MIIFozCCA4ugAwIBAgITGQAAAALex/EgACaWIAAAAAAAAjANBgkqhkiG9w0BAQUF
3	${\tt ADAaMRgwFgYDVQQDEw9Ub21EZW1vIFJvb3QgQ0EwHhcNMTQwMjA3MTQwMTU3WhcN}$
4	MjQwMjA3MTQxMTU3WjBKMRIwEAYKCZImiZPyLGQBGRYCc2UxFzAVBgoJkiaJk/Is
5	$\verb+ZAEZFgd0b21kZW1vMRswGQYDVQQDExJUb21EZW1vIE1zc3VpbmcgQ0EwggEiMA0G$
6	CSqGSIb3DQEBAQUAA4IBDwAwggEKAoIBAQDC8XmXxLHo0M/521CFtI4DSN6qVNAN
7	8jxujS4PSSRnQtaqpbjbcAZpvbYysNt2uwA40urkxY2nyn4SMy/21S4L9x10u8su
8	W+/4T2dcFgQKzFiNyqVkLop9vRKnCKjceD+FRKXbPCSZyy4Hhz/XCgwPRfaobx+q
9	aV1fSnW0F a2MHx60jf
10	BhdyONMrZxmQeYgFPUmd2o3x+1yq1406hIF7LLGFAoDdqi3R31D9OPb7+Dm2ezv0
11	OKkbCHdjl3inB3D1tg1L8mZeIEte+07RvlQXr33umO6zeYi4okbaHZLvAgMBAAGj
12	$\verb"ggGwMIIBrDAQBgkrBgEEAYI3FQEEAwIBADAdBgNVHQ4EFgQU0+wPInpDnoqnuIlx"$
13	$\verb+BtubiGLdS1uwgYsGA1udIASBgzCBgDB+BgorBgEEAYKdZwEBMHAwPgYIKwYBBQUH$
14	$\verb AgiwMh4wAFQAbwBtAEQAZQBtAG8AIABQAG8AbABpAGMAeQAgAFMAdABhAHQAZQBt  $
15	$\tt AGUAbgB0MC4GCCsGAQUFBwIBFiJodHRw0i8vcGtpLnRvbWRlbW8uc2UvcGtpL2Nw$
16	$\verb"cy5odG0AMBkGCSsGAQQBgjcUAgQMHgoAUwB1AGIAQwBBMAsGA1UdDwQEAwIBhjAP"$
17	${\tt BgNV} H{\tt RMBAf8EBTADAQH}/{\tt MB8GA1UdIwQYMBaAFL00e0rG2ExZ1dmboIuLwgGgPr5e}$
18	MEIGA1UdH
19	${\tt RGVtbyUyMFJvb3Q1MjBDQS5jcmwwTQYIKwYBBQUHAQEEQTA/MD0GCCsGAQUFBzAC}$
20	hjFodHRwOi8vcGtpLnRvbWRlbW8uc2UvcGtpL1RvbURlbW81MjBSb290JTIwQ0Eu
21	Y3J0MA0GCSqGSIb3DQEBBQUAA4ICAQBBkNHa1bX3kkpOXCV3nQ9R4CyG61WI90gL
22	57 u GRcpulSqUu790J5s4xlW8rhm32db7qvHDPaYED23gudpOSHyUywZTFbwzm92c
23	$\verb+e1wZpyJH6nsuqNFDTYQTdWAq8zwCrldcUFRW301mkPuhENjttqCIJ9KeLrwCaM/p$
24	$\label{eq:QVy7qWoTU14/BY+OsLXDGURXrGejcVs8ZQy4bqhmh0TfelTcAOAX47pVt8XdnWFe} QVy7qWoTU14/BY+OsLXDGURXrGejcVs8ZQy4bqhmh0TfelTcAOAX47pVt8XdnWFe \\ \end{tabular}$
25	Vnu/rwuOnfvlyiWW62cknAATaagnLXdbFWIxnVSlbooZmYXXQqelFxJVlbhNdWM9
26	tgdq3t2qBXj3P7XiD+OWfzkABGMJrmki55LNp10/oV+Kw3DuyGYLurq6TWWlJi8J
27	94GJm9VQBX1Py1FQn0hILcxgr+LAIKX0PqXTyRCp1/UGH1ih05S1F4GvPEj0s1BA
28	ebRkDrN2vU+9kq8UXOhzxierQDmJkCOpSUWV6Pk6/OP72vxIuAQQNdY++cJRwzi+
29	adWp6cZBzW5h3OdKlyEDdjNB75rzQcwMlerYTABSIaK6KCTNb70F4kTWlB5RlWqD
30	VXyboYEbf0ym5CiNmDKUXqQMI45FIztDhYjJqn1NeroJUZnUYa9y63zujy2uyQeG
31	EVWpXscPOfrcrCfSuvx0KsMiLxuclfVJyCAJqBMG++LgWxhb247CvhSDK2wZrq0+
32	Q70p0WaYww==

## DER

Example of DER readable format, as shown in the image

1	0, ENQ£0, ETX< ETXISTXISOHISTXISTXIDC3EMINULINULISTXÞÇñ NUL&-
	NUL NUL NUL NUL STXO
2	ACK * tHt÷
3	SOHISOHIENQIENQINULO SUB1 CANO SYNACKIETXUEOTIETXIDC3 SII
4	140207140157Z
5	240207141157Z0J1 DC20 DLEACK
6	'&%"````````````````````````````````````
7	'&%"````````````````````````````````````
	Issuing CAO, SOH"O
8	ACK * tHt÷
9	SOHISOHISOHIENOINULIETX, SOHISIINULO, SOH
10	STX, SOHSOHNULÂñy-ıèÐÏùÛP…´ŽITXHÞ°TÐ
11	ò <n.sdi\$gbö°¥,ûpmck1¾12°ûv»nud8òêäŧê~dc23 th="" öõ.vd÷gst»ë.[ïøog\syncod<=""></n.sdi\$gbö°¥,ûpmck1¾12°ûv»nud8òêäŧê~dc23>
12	ÌXÊ¥d.Š}%DC2SBS¨Üx?…D¥Û<\$™Ë.BED‡?×
13	EESLEö"oUS°i]_Ju´?£1UmUS^BÆòFÁ…¾EDŰÖ;)EODÒcoúONAK;Á·'ôÁ"ZØÁñëHßACKEDE
	r8Ó+gDMy^DNO=IÚñú\ª×:"{,±…SNX€Ýª-ÑßPý8öûø9¶{;ô8©DSCBSwc—x§BDDpõ¶
14	Kòf^
	K^ûNѾT DDB } î î ³ y^ , ¢ FÚGS' ï SDX DDX SOH NUD SOH£, SOH ° 0, SOH ¬ 0 DDDACK
	+ ACKISOHIEOTISOH, 7 NAKISOHIEOTIETXISTXISOHINUL0 (GSIACKIETXU (GSISOIEOTISYNIEOTIDC4 Ó 1
	ST"zCžŠ§,‰qACKÕESC bÝKU0 <acketxugs eotf0€0~ack<="" th=""></acketxugs>
15	+ACKSOHEOTSOH, gSOHSOH0p0>ACKBS+ACKSOHENOENOBELSTXSTX02RS0NULTNULO
	NULMNULDNULeNULMNULONUL NULPNULONUL1NUL1NULCNULYNUL
	NULSNULTNULANULTNULENULMNULENULNNULTO.ACKBS+ACKSOHENOENOBELSTXSOH
	SYN' .htmNUL0EMACK
	+ACK[SOH]EOT[SOH], 7 DC4[STX]EOT[FF]RS]
16	NULSNULUNULDNULCNULAOVTACKETXUGSISTEOTEOTETXISTXISOH†OSTACKETXUGS
	DC3SOHSOHÿEOTENO0ETXSOHSOHÿ0USACKETXUGS‡EOTCAN0SYN€DC49∞44{JÆØLYÕÙ>

## Difference between certificate created in Windows vs Linux

A simple side-by-side comparison of both certificates next to each other you can use the **Compare** plugin in Notepad ++ reviled the encoded difference in line #68. On the left, you can see the certificate created in Windows, on the right you can find the certificate generated on the Linux machine. The one on the left has carriage return which makes that certificate PEM invalid for FMC. However, you cannot tell the difference in text editor except for that one line in Notepad ++.



Copy the newly created/converted PEM certificate for RootCA and CLEAN interface to your Linux machine and remove the carriage return from the PEM file.

sed -i 's/\r//' <file.crt>

Example, sed -i 's/\r//' OPADMIN.pem.

Verify if the carriage return is present.

od -c <file.crt>

Certificates that still have carriage return presented, as shown in the image.

[admin@	local	.host	Des	ktop	]\$ od	- C	MRJ	CA.c	er							
0000000						в	Е	G	I	Ν		С	Е	R	т	I
0000020	F	I	С	Α	т	Е						\r	\n	М	I	I
0000040	G	t	D	С	С	в	Z	У	g	Α	W	I	В	Α	g	I
0000060	Т	R	Q	Α	А	А	Р	n	р	ι	У	n	В	0	h	j
0000100	Z	а	W	А	E	А	Α	Α	Α	+	Т	Α	Ν	В	g	k
0000120	q	h	k	i	G	9	w	0	В	Α	Q	s	F	١r	\n	Α
0000140	D	В	0	М	R	U	w	Е	W	Y	к	С	Z	I	m	i
0000160	Z	Р	У	L	G	Q	В	G	R	Y	F	т	G	9	j	Y
0000200	U	w	х	F	z	А	v	В	g	0	J	k	i	а	J	k
0000220	/	I	s	Z	А	Е	Z	F	g	d	Р	с	2	9	j	\r
0000240	\n	L	W	р	v	М	R	W	W	G	g	Y	D	V	Q	Q
0000260	D	E	х	Ν	Р	с	2	9	j	L	W	р	v	L	U	Ν
0000300	D	т	ι	R	E	Q	z	Α	У	L	U	Ν	В	М	В	4
0000320	Х	D	т	I	x	М	D	Q	W	Ν	D	I	х	М	j	U
0000340	х	\r	\n	М	ι	0	Х	D	т	I	z	М	D	Q	W	Ν
0000360	D	I	х	М	j	U	х	М	ι	0	W	J	j	Е	k	М
0000400	С	I	G	А	1	U	Е	Α	х	М	b	т	V	J	к	L
0000420	U	F	Ν		С	1	U	R	У	1	Ν	Ν	s	0	w	М
0000440	S	5	q	\r	\n	d	С	5	q	d	G	d	У	b	3	v
0000460	W	м	Ι	ī	в	I	j	Α	N	в	g	k	q	h	k	i
0000500	G	9	W	0	в	А	Q	Е	F	Α	Α	0	С	Α	Q	8
0000520	Α	м	I	I	В	С	g	К	С	Α	Q	Е	Α	s	g	4
0000540	z	s	m	о	Y	\r	\n	W	т	2	Q	Y	0	7	h	h
0000560	z	d	8	b	+ -	ĸ	b	s	U	М	с	Q	Q	0	5	Θ
0000600	р	0	g	q	v	е	1	Q	5	2	G	7	Т	m	w	е
0000620	+	v	m	q	+	Е	Y	н	W	b	В	Т	g	D	9	9
0000640	К	D	ι	х	R	0	ι	١٢	\n	0	s	У	I	g	3	W
0000660	k	i	ι	М	р	I	ι	u	Р	i	0	Е	U	н	d	Α
0000700	с	2	т	q	А	d	w	0	r	е	Е	М	k	н	ι	F
0000720	n	Q	5	4	G	J	ι	W	Z	6	S	0	h	I	9	J
0000740	2	8	h	/	L	k	R	f	8	\r	\n	Z	3	5	В	q
0000760	q	F	0	х	р	s	8	s	0	k	р	7	1	0	7	н
0001000	А	1	b	х	q	b	4	5	t	t	U	U	Ν	n	/	i

Certificate after you run that through a Linux machine.

[admin@	local	host	Des	ktop]	\$ od	- C	MRJ	CA.pe	em							
0000000						В	Е	G	I	Ν		С	Е	R	Т	I
0000020	F	I	С	А	т	Е						\n	М	I	I	G
0000040	t	D	С	С	В	Ζ	у	g	А	W	I	В	Α	g	I	Т
0000060	R	Q	Α	А	А	Ρ	n	р	ι	у	n	В	0	h	j	Z
0000100	а	W	А	Е	А	А	А	А	+	Т	А	Ν	В	g	k	q
0000120	h	k	i	G	9	W	0	В	Α	Q	s	F	\n	Α	D	В
0000140	0	М	R	U	W	Е	W	Y	К	С	Ζ	I	m	i	Z	Р
0000160	У	L	G	Q	В	G	R	Y	F	Т	G	9	j	Y	U	W
0000200	х	F	z	А	V	В	g	0	J	k	i	а	J	k	/	I
0000220	s	Z	А	Е	Z	F	g	d	Р	с	2	9	j	\n	L	W
0000240	р	v	М	R	w	W	G	g	Y	D	V	Q	Q	D	Е	х
0000260	N	Р	с	2	9	j	L	W	р	v	L	U	Ν	D	т	l
0000300	R	Е	Q	z	А	у	L	U	Ν	В	М	В	4	Х	D	Т
0000320	I	х	М	D	Q	W	Ν	D	I	х	М	j	U	х	\n	М
0000340	ι	0	Х	D	Т	Ι	z	М	D	Q	W	Ν	D	I	х	М
0000360	j	U	х	М	ι	0	W	J	j	Е	k	М	С	I	G	Α
0000400	1	U	Е	А	х	М	b	Т	V	J	К	L	U	F	Ν	U
0000420	С	1	U	R	У	1	Ν	Ν	s	0	W	М	s	5	q	\n
0000440	d	С	5	q	d	G	d	У	b	3	V	W	М	I	I	В
0000460	I	j	А	Ν	В	g	k	q	h	k	i	G	9	W	0	В
0000500	А	Q	Е	F	А	А	0	С	А	Q	8	Α	М	I	I	В
0000520	С	g	К	С	А	Q	Е	А	s	g	4	Z	s	m	0	Y
0000540	\n	W	Т	2	Q	Υ	0	7	h	h	Z	d	8	b	+	к
0000560	b	s	U	М	с	Q	Q	0	5	0	р	0	g	q	v	е
0000600	1	Q	5	2	G	7	Т	m	W	е	+	v	m	q	+	E
0000620	Y	Н	W	b	В	Т	g	D	9	9	К	D	ι	х	R	0
0000640	ι	\n	0	S	У	Ι	g	3	W	k	i	ι	М	р	I	ι
0000660	u	Р	i	0	Е	U	Н	d	А	с	2	Т	q	Α	d	W
0000700	0	r	е	Е	М	k	Н	ι	F	n	Q	5	4	G	J	ι
0000720	W	Z	6	S	0	h	I	9	J	2	8	h	/	L	k	R
0000740	f	8	\n	Z	3	5	В	q	q	F	0	х	р	s	8	S
0000760	0	k	р	7	1	0	7	Н	Α	1	b	х	q	b	4	5
0001000	t	t	U	U	N	n	/	i	٧	7	Ζ	ι	У	а	J	Х

For FMC combine Root\_CA and the no-carriage certificate on a Linux machine use the next command.

cat <root\_ca\_file.pem> <clean-int-no-carriage.pem> > <combined\_root-ca\_clean.pem>

Example, cat Clean-interface\_CSR\_CA-signed\_DER\_CER\_PEM\_no-carriage.pem Root-CA.pem > combine.pem.

Or you can also open a new text editor in your Linux machine and combine both Clean certificates with carriage return removed into one file and save it with.PEM extension. You must have your CA certificate on top and the Clean Interface certificate on the bottom.



This must be your certificate that you later upload to your FMC to integrate with the TG appliance.

## Certificate upload to TG appliance and FMC

## Upload certificate for a clean interface

Navigate to **Configuration > SSL > PANDEM - Actions Upload New Certificate > Add Certificate,** as shown in the image.



## Upload certificate for an admin interface

Navigate to **Configuration > SSL > OPADMIN - Actions Upload New Certificate > Add Certificate**, as shown in the image.

CISCO Threat Grid	Appliance Home Configuration Status	Operations Support					
Configuration	Upload SSL certificate for OPADMIN Certificate (PEM) 8a2ieTLPQDTijy/6ZQ85+QIGza9ws5pz+zKZpNeiEVyfrbBf0c JekAtlet.Rb03TYYD6aEEm/e6aKRIcFZQyQDe/9laftWv5JGG rRSEo1jeTUByg1yHX8FRh9CzdkRVdExue40mhpyaluQZT1y	File Home Share View			-	□ × ~ 0	
Clustering Date and Time Email Integrations	xa47 xX8V/12/t8Q7/VGe*2LLecQ6d8Pr/mKbmQ4mdAtGq R6fEmfDL9iq540g/WUs6LSQ+accZxk+Htxz8rk1V/aeVAmC VNGwOnMyXT4KrRH0cOHRV8W35MpUV11yqr495U11bv8M 82fbaV7E7cgtLdazp6/C+zfqI80E7lyr3GJw3RVc75KpzTDQA 5rQhVYg=END CERTIFICATE	← → × ↑ → New folder > 0	Driginal > TG Name	<ul> <li>✓ Č</li> <li>Date modified</li> <li>3/20/2021 12:44 AM</li> <li>3/20/2021 12:44 AM</li> <li>3/20/2021 12:44 AM</li> </ul>	Search TG      Type      Privacy Enhanced      Privacy Enhanced      Privacy Enhanced      Privacy Enhanced	Size 1 KB 2 KB 1 KB	
License Network Network Exit	END EC PARAMETERS EGIN EC PRIVATE KEY MIH-CAGEBBEIBOQ9hcFBuuEEsV/VegAdpIAyHNTZpNZ/gD/U MIH-CAGEBBEIBOQ9hcFBuuEEsV/VegAdpIAyHNTZpNZ/gD/U MIH-CAGEBBEIBOQ9hcFBuuEEsV/VegAdpIAyHNTZpNZ/gD/U	BSOD Desktop	Clean-interface_CSR_CA-signed_DER_CE Root-CA.pem	3/20/2021 12:44 AM 3/20/2021 12:44 AM	Privacy Enhanced Privacy Enhanced	3 KB 2 KB	
NFS Notifications SSH	sitkinker/bandopialer/krgbinocale/ggji/Degbin/Fx4ezACJ0 KftqxkD7\LF2A2wu+HFxAnh2KdwVjYJY3B3xFw0xNEv7/ /g5t9l0UZheq7eVkMQHp-C1LCuenzxUkwYUw1frPPT00Q JFOXwn1dzHknPtmVjkM7AVg1JpD4IWDvWwjvJCSw== END EC PRIVATE KEY	TG to FMC OneDrive Sitems 1 item selected 1.90 KB				B22 <b>F</b>	
SSL Syslog	Add Certificate Cancel						

### Upload certificate to FMC

In order to upload the certificate to the FMC, navigate to **AMP > Dynamic Analysis Connections > Add New Connection**, then fill in the required information.

Name: Any name to identify.

Host: Clean-interface FQDN as defined when the CSR for clean-interface is generated

**Certificate:** The combined certificate of ROOT\_CA and clean interface\_no-carriage.

	🐝 Cisco® ISE Configuration 🛛 🗙 🧶 Privacy error	X dt Cisco Firepower Management Ce X +	
ĺ	Cisco® ISE Configuration 5.2.240/ddd/#Dyna	micAnalysisConnections	☆ 🖰 :
	CISCO AMP / Dynamic Analysis Connections	Q Overview Analysis Policies Devices Objects AMP Intelligence Deploy	🔅 👩 admin 🔻
		Add New Connection	Add New Connection
	Cloud Name		Actions
	Cisco Sandbox API, US Cloud	Name: ThreatGrid Host: WreatGrid Certificate Upload: C:\fakepath\PANDEM_clean-interf Browse Use Proxy When Available:	/ *
		Cancel Register	

Once the New Connection is registered, a pop-up is displayed, click on the **Yes** button.

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← → C ▲ Not secure   172.16.2.240/ddd/#Dyna	micAnalysisConnections	☆ <b>⊖</b> :
Gisco Firepower Management Center AMP / Dynamic Analysis Connections	Q Overview Analysis Policies Devices Objects AMP Intelligence Deploy	🔮 🌣 🔕 admin 🗸
	Add New Connection	Add New Connection
Cloud Name		Actions
Cisco Sandbox API, US Cloud	Name: DS	/ %
	Host: WMP2441 Do you want to allow redirection to another page to complete registration? C:\fakepat Use Proxy W No Yes Cancel Register	

The page redirects to TG Clean interface and login prompt, as shown in the images.



Accept the EULA.

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cisco Threat Grid	Submit Sample	Dashboard	Samples	Reports	Indicators	Administration 🗸		٩ ٢ ()		admin 🗸	
THREAT GRID SERVICE Terms of Use Agreement											
This is a legal agreement ("Agreement") between you, the party using the Threat Grid Service, and Cisco Systems, Inc., a California corporation having offices at 170 West Tasman Drive, San Jose, CA 95134 ("Cisco"). This Agreement applies to your access and use of Cisco's Threat Grid Service.											
By clicking accept or using the Cisco Technology, you agree that such use is governed by the Cisco End User License Agreement and the applicable Product Specific Terms (collectively, the "EULA"). You also acknowledge and agree that you have read the Cisco Privacy Statement. If you do not have authority to bind your company and its affiliates, or if you do not agree with the terms of the EULA, do not click 'accept' and do not use the Cisco Technology. If you are a											
Cisco channel partner accepting on behalf of an end customer ("customer"), you must inform the customer that the EULA applies to customer's use of the Cisco Technology and provide the customer with access to all relevant terms.											
BY CLICKING ON THE "I AGREE" BUTTON BELOW YOU ACKNOWLEDGE THAT YOU Full Name: HAVE READ ALL OF THE TERMS AND CONDITIONS OF THIS AGREEMENT,						ne: Adminis	strator				
UNDERSTAND THEM, AND AGREE TO BE LEGALLY BOUND BY THEM.				Tit	tle: Adminis	Administrator					
							I Agree				

Successful integration displays an active device, as shown in the image.

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Cisco Threat Grid	Submit Sample Dashb	oard Samples Reports	Indicators	Administration 🗸		$\mathbf{O}\mathbf{O}$	admir	n 🗸
	Active Device A device has been regist Device Type Model Model ID Mgmt IF Current status	ered and activated with FMC 42 52 005056B95288 Active	your applia	ince.	Return			

Click Return, back to FMC with successful TG integration, as shown in the image.

cisco	Firepower Management Center AMP / Dynamic Analysis Connections	۹	Overview	Analysis	Policies	Devices	Objects	AMP	Intelligence
Cloud Nan	ne			Host					Purpose
ThreatGrid			W	pj.co	m	File Submissions, Private Report Lookups			
Cisco Sandbox API, US Cloud			fmc.api.t	threatgrid.com		Public Report Lookups			

## **Related Information**

- Firepower Management Center Configuration Guide, Version 6.6
- <u>Technical Support & Documentation Cisco Systems</u>