

Installer et mettre à niveau Firepower Threat Defense sur les appliances ASA 55xx-X

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Introduction

Ce document décrit les procédures d'installation, de mise à niveau et d'enregistrement de Firepower Threat Defense (FTD) sur les appliances ASA55xx-X.

Conditions préalables

Conditions requises

Aucune spécification déterminée n'est requise pour ce document.

Components Used

Les informations contenues dans ce document sont basées sur les versions de matériel et de logiciel suivantes :

- ASA5508-X
- ASA5512-X
- FireSIGHT Management Center (FMC) exécutant la version 6.0.1 (build 1213)

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. Si votre réseau est en ligne, assurez-vous de bien comprendre l'incidence possible des commandes.

Informations générales

FTD est une image logicielle unifiée qui peut être installée sur ces plates-formes :

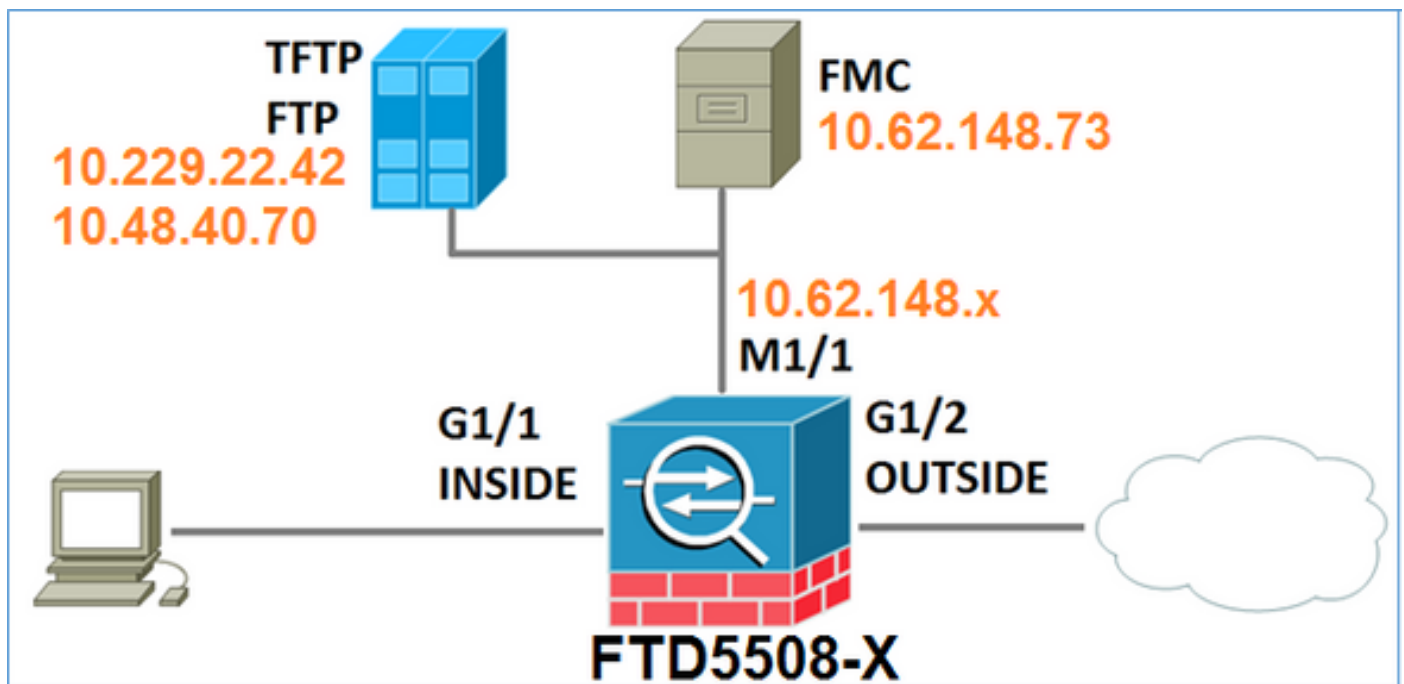
- ASA5506-X, ASA5506W-X, ASA5506H-X, ASA5508-X, ASA5516-X
- ASA5512-X, ASA5515-X, ASA5525-X, ASA5545-X, ASA5555-X
- FPR4100, FPR9300
- VMware (ESXi)
- Amazon Web Services (AWS)
- KVM
- Module de routeur ISR

L'objectif de ce document est de démontrer :

- Installation de FTD version 6.0.0 sur les plates-formes ASA5508-X et ASA5512-X
- Procédure de mise à niveau de FTD de la version 6.0.0 à 6.0.1
- Enregistrement de Firepower Management Center (FMC) et licence de base

Configuration

Diagramme du réseau



Téléchargement du logiciel FTD

Naviguez jusqu'à **Pare-feu de nouvelle génération > ASA avec fonctionnalités FirePOWER > ASA 5508-X avec fonctionnalités FirePOWER** et sélectionnez **Firepower Threat Defense Software** :

Download Software Download Cart (0 items) | Feedback Help

[Downloads Home](#) > [Products](#) > [Security](#) > [Firewalls](#) > [Next-Generation Firewalls \(NGFW\)](#) > [ASA with FirePOWER Services](#) > [ASA 5508-X with FirePOWER Services](#)

Select a Software Type:

- ASA Rommon Software
- Adaptive Security Appliance (ASA) Device Manager
- Adaptive Security Appliance (ASA) Software
- Adaptive Security Appliance REST API Plugin
- FirePOWER Services Software for ASA
- Firepower Threat Defense Software

De même pour le logiciel ASA5512-X.

Tâche 1. Vérifier les conditions requises

Vérifiez les conditions préalables avant l'installation du FTD.

Solution :

Pour l'installation de FTD, vous utilisez deux images :

1. Image du système d'exploitation (image de démarrage AKA) : pour Firepower Threat Defense sur ASA5506-X, ASA5506H-X, ASA5506W-X, ASA5508-X, ASA5516-X est un fichier *.lfbff. Pour Firepower Threat Defense on Saleen (ASA5512-X, ASA5515-X, ASA5525-X, ASA5545-X, ASA5555-X) est un fichier *.cdisk.
2. Image système : il s'agit d'un fichier .pkg.

Avant de poursuivre l'installation de FTD, vérifiez les points suivants :

- La mémoire flash ASA doit avoir au moins 3,1 Go d'espace libre (3 Go + taille de l'image de démarrage)
- L'image de démarrage est téléchargée sur un serveur TFTP
- L'image système est téléchargée sur un serveur HTTP ou FTP
- SurASA5506/08/16, le ROMMON est au moins 1.1.8 version

Vérifiez l'espace libre :

```
FTD5508X# show flash | i free
7859437568 bytes total (4273819648 bytes free)
```

Vérifiez ces images :

Nom de fichier	Description
ftd-boot-9.6.1.0.lfbff	v6.0.1 Image de démarrage de Firepower Threat Defense pour 5506/5508/5516. Il s'agit de l'image de démarrage pour l'installation propre sur 5506/5508/5516
ftd-boot-9.6.1.0.cdisk	v6.0.1 Image de démarrage de Firepower Threat Defense pour ASA 5512/5515/5525/5545/5555. Il s'agit de l'image de démarrage pour l'installation propre sur 5512/5515/5525/5545/5555
ftd-6.0.0-1005.pkg	v6.0.0 Firepower Threat Defense pour tous les ASA pris en charge : 5506/5508/5512/5515/5516/5525/5545/5555 .

Il s'agit de l'image système pour l'installation propre

Tâche 2. Mise à niveau du ROMMON ASA5508-X

Comme indiqué dans les conditions préalables, les périphériques ASA5506-X, ASA5508-X et ASA5516-X doivent se trouver sur ROMMON v1.1.8. Si ce n'est pas le cas, installez asa5500-firmware-1108.SPA (disponible sur la page de téléchargement de Cisco ASA).

Exigence de la tâche :

Mettre à niveau le ROMMON ASA5508 de 1.1.1 à 1.1.8.

Solution :

La procédure est décrite dans le [Guide de mise à niveau du ROMMON ASA](#).

Étape 1. Vérifiez la version existante de ROMMON :

```
FTD5508X# show module
Mod Card Type Model Serial No.
-----
 1 ASA 5508-X with FirePOWER services, 8GE, AC, ASA5508 JAD192100SZ
sfr FirePOWER Services Software Module ASA5508 JAD192100SZ

Mod MAC Address Range Hw Version Fw Version Sw Version
-----
 1 188b.9d1e.ca7c to 188b.9d1e.ca84 1.0 1.1.1 9.5(2)
sfr 188b.9d1e.ca7b to 188b.9d1e.ca7b N/A N/A 5.4.1-211
```

Étape 2. Téléchargez le micrologiciel ROMMON dans la mémoire Flash d'ASA :

```
FTD5508X# copy ftp://10.48.40.70/ANG/mzafeiro/asa5500-firmware-1108.SPA disk0:asa5500-firmware-1108.SPA
```

Address or name of remote host [10.48.40.70]?

Source filename [ANG/mzafeiro/asa5500-firmware-1108.SPA]?

Destination filename [asa5500-firmware-1108.SPA]?

```
Accessing ftp://10.48.40.70/ANG/mzafeiro/asa5500-firmware-1108.SPA...!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!! Done!
```

```
Computed Hash SHA2: d824bdeecce1308fc64427367fa559e9
eefe8f182491652ee4c05e6e751f7a4f
5cdea28540cf60acde3ab9b65ff55a9f
4e0cfb84b9e2317a856580576612f4af
```

```
Embedded Hash SHA2: d824bdeecce1308fc64427367fa559e9
eefe8f182491652ee4c05e6e751f7a4f
5cdea28540cf60acde3ab9b65ff55a9f
4e0cfb84b9e2317a856580576612f4af
```

Digital signature successfully validated

Writing file disk0:/asa5500-firmware-1108.SPA...

!!!!!!!!!!

9241408 bytes copied in 18.890 secs (513411 bytes/sec)

Étape 3. Mettre à niveau l'image ROMMON ASA :

```
FTD5508X# upgrade rommon disk0:asa5500-firmware-1108.SPA
Verifying file integrity of disk0:/asa5500-firmware-1108.SPA
```

```
Computed Hash   SHA2: d824bdeecee1308fc64427367fa559e9
                eefe8f182491652ee4c05e6e751f7a4f
                5cdea28540cf60acde3ab9b65ff55a9f
                4e0cfb84b9e2317a856580576612f4af
```

```
Embedded Hash   SHA2: d824bdeecee1308fc64427367fa559e9
                eefe8f182491652ee4c05e6e751f7a4f
                5cdea28540cf60acde3ab9b65ff55a9f
                4e0cfb84b9e2317a856580576612f4af
```

Digital signature successfully validated

```
File Name       : disk0:/asa5500-firmware-1108.SPA
Image type      : Release
  Signer Information
    Common Name   : abraxas
    Organization Unit : NCS_Kenton_ASA
    Organization Name : CiscoSystems
Certificate Serial Number : 55831CF6
Hash Algorithm   : SHA2 512
Signature Algorithm : 2048-bit RSA
Key Version      : A
```

Verification successful.

```
System config has been modified. Save? [Y]es/[N]o: Y
Cryptochecksum: cb47de8a cad3b773 7fc07212 3e76ef4f
```

2804 bytes copied in 0.260 secs

Proceed with reload? [confirm]

```
***
*** --- START GRACEFUL SHUTDOWN ---
***
*** Message to all terminals:
***
*** Performing upgrade on rom-monitor.
Shutting down License Controller
Shutting down File system

***
*** --- SHUTDOWN NOW ---
***
*** Message to all terminals:
***
*** Performing upgrade on rom-monitor.
Process shutdown finished
Rebooting.....
INIT: Sending processes the TERM signal
Deconfiguring network interfaces... done.
Sending all processes the TERM signal...
Sending all processes the KILL signal...
Deactivating swap...
Unmounting local filesystems...
Rebooting...
Rom image verified correctly
```

Cisco Systems ROMMON, Version 1.1.01, RELEASE SOFTWARE
Copyright (c) 1994-2014 by Cisco Systems, Inc.
Compiled Mon 10/20/2014 15:59:12.05 by builder

Current image running: Boot ROM0
Last reset cause: PowerCycleRequest
DIMM Slot 0 : Present
DIMM Slot 1 : Present
INFO: Rommon upgrade state: ROMMON_UPG_START (1)
INFO: Reset code: 0x00002000

Firmware upgrade step 1... Looking for file 'disk0:asa5500-firmware-1108.SPA' Located 'asa5500-firmware-1108.SPA' @ cluster 856765.

#####

Image base 0x77014018, size 9241408

LFBFF signature verified.

Objtype: lfbff_object_rommon (0x800000 bytes @ 0x77014238)

Objtype: lfbff_object_fpga (0xd0100 bytes @ 0x77814258)

INFO: FPGA version in upgrade image: 0x0202

INFO: FPGA version currently active: 0x0202

INFO: The FPGA image is up-to-date.

INFO: Rommon version currently active: 1.1.01. INFO: Rommon version in upgrade image: 1.1.08.

Active ROMMON: Preferred 0, selected 0, booted 0

Switching SPI access to standby rommon 1.

Please DO NOT reboot the unit, updating ROMMON..... INFO: Duplicating machine state..... Reloading now as step 1 of the rommon upgrade process... Toggling power on system board... Rom image verified correctly

Cisco Systems ROMMON, Version 1.1.01, RELEASE SOFTWARE
Copyright (c) 1994-2014 by Cisco Systems, Inc.
Compiled Mon 10/20/2014 15:59:12.05 by builder

Current image running: Boot ROM0
Last reset cause: RP-Reset
DIMM Slot 0 : Present
DIMM Slot 1 : Present
INFO: Rommon upgrade state: ROMMON_UPG_START (1)
INFO: Reset code: 0x00000008
Active ROMMON: Preferred 0, selected 0, booted 0

Firmware upgrade step 2...

Detected current rommon upgrade is available, continue rommon upgrade process

Rommon upgrade reset 0 in progress

Reloading now as step 2 of the rommon upgrade process...

Rom image verified correctly

Cisco Systems ROMMON, Version 1.1.8, RELEASE SOFTWARE
Copyright (c) 1994-2015 by Cisco Systems, Inc.
Compiled Thu 06/18/2015 12:15:56.43 by builders

Current image running: *Upgrade in progress* Boot ROM1
Last reset cause: BootRomUpgrade
DIMM Slot 0 : Present
DIMM Slot 1 : Present
INFO: Rommon upgrade state: ROMMON_UPG_START (1)
INFO: Reset code: 0x00000010
PROM B: stopping boot timer

Active ROMMON: Preferred 0, selected 0, booted 1
INFO: Rommon upgrade state: ROMMON_UPG_TEST

!!
!! Please manually or auto boot ASAOS now to complete firmware upgrade !!
!!

Platform ASA5508 with 8192 Mbytes of main memory
MAC Address: 18:8b:9d:1e:ca:7c

Use BREAK or ESC to interrupt boot.
Use SPACE to begin boot immediately.

Located '.boot_string' @ cluster 859024.

Attempt autoboot: "boot disk0:/asa952-lfbff-k8.SPA"
Located 'asa952-lfbff-k8.SPA' @ cluster 818273.

#####

LFBFF signature verified.
INIT: version 2.88 booting
Starting udev
Configuring network interfaces... done.
Populating dev cache
dosfsck 2.11, 12 Mar 2005, FAT32, LFN
There are differences between boot sector and its backup.
Differences: (offset:original/backup)
65:01/00
Not automatically fixing this.
Starting check/repair pass.
/cisco_config
"." is missing. Can't fix this yet.
/cisco_config
".." is missing. Can't fix this yet.
Starting verification pass.
/cisco_config
"." is missing. Can't fix this yet.
/cisco_config
".." is missing. Can't fix this yet.
/dev/sdb1: 182 files, 849380/1918808 clusters
dosfsck(/dev/sdb1) returned 0
IO Memory Nodes: 1
IO Memory Per Node: 499122176 bytes

Global Reserve Memory Per Node: 314572800 bytes Nodes=1

Processor memory 3807834603
LCMB: got 499122176 bytes on numa-id=0, phys=0x1b8000000, virt=0x2aaaaae00000
LCMB: HEAP-CACHE POOL got 314572800 bytes on numa-id=0, virt=0x2aaac8a00000

Compiled on Sat 28-Nov-15 00:16 PST by builders

```
Total NICs found: 13
i354 rev03 Gigabit Ethernet @ irq255 dev 20 index 08 MAC: 188b.9d1e.ca7c
ivshmem rev03 Backplane Data Interface @ index 09 MAC: 0000.0001.0002
en_vtun rev00 Backplane Control Interface @ index 10 MAC: 0000.0001.0001
en_vtun rev00 Backplane Int-Mgmt Interface @ index 11 MAC: 0000.0001.0003
en_vtun rev00 Backplane Ext-Mgmt Interface @ index 12 MAC: 0000.0000.0000
Rom-monitor was successfully upgraded.
...
```

Vérifier :

Vous pouvez utiliser la commande **show module** pour vérifier la version du logiciel ROMMON :

```
FTD5508X> enable
Password:
FTD5508X# show module
```

Mod	Card Type	Model	Serial No.
1	ASA 5508-X with FirePOWER services, 8GE, AC,	ASA5508	JAD192100SZ
sfr	FirePOWER Services Software Module	ASA5508	JAD192100SZ

Mod	MAC Address Range	Hw Version	Fw Version	Sw Version
1	188b.9d1e.ca7c to 188b.9d1e.ca84	1.0	1.1.8	9.5(2)
sfr	188b.9d1e.ca7b to 188b.9d1e.ca7b	N/A	N/A	5.4.1-211

Tâche 3. Installation de l'image de démarrage FTD sur ASA55xx-X

Exigence de la tâche :

Installez l'image de démarrage FTD ftd-boot-9.6.1.0.lfbff sur ASA5508-X.

Solution :

Il existe plusieurs méthodes pour le faire. Voici le premier :

Méthode 1. À partir de ROMMON

Étape 1. Rechargez l'ASA et passez en mode ROMMON :

```
FTD5508X# reload
Proceed with reload? [confirm]
FTD5508X#
```

```
***
*** --- START GRACEFUL SHUTDOWN ---
Shutting down isakmp
Shutting down webvpn
Shutting down sw-module
Shutting down License Controller
Shutting down File system
```

```
***
*** --- SHUTDOWN NOW ---
Process shutdown finished
```



```

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!! .. output omitted ..
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
File reception completed.
Boot buffer bigbuf=348bd018
Boot image size = 100308208 (0x5fa94f0) bytes
[image size]      100308208
[MD5 signaure]    781dde41844d750f8c0db1cd1e1e164f
LFBFF signature verified.
INIT: version 2.88 booting
Starting udev
Configuring network interfaces... done.
Populating dev cache
Detected PID ASA5508.
Found device serial number JAD192100SZ.
Found USB flash drive /dev/sdb
Found hard drive(s): /dev/sda
fsck from util-linux 2.23.2
dosfsck 2.11, 12 Mar 2005, FAT32, LFN
/dev/sdb1: 47 files, 24618/1919063 clusters =====
Launching boot CLI ... Configuring network interface using static IP Bringing up network
interface. Depending on your network, this might take a couple of minutes when using DHCP...
ifup: interface lo already configured Using IPv4 address: 10.62.148.62
Using IPv6 address: fe80::1a8b:9dff:fe1e:ca7b
Using DNS server: 10.62.145.72
Using default gateway: 10.62.148.100
INIT: Starting system message bus: dbus.
Starting OpenBSD Secure Shell server: sshd
generating ssh RSA key...
generating ssh ECDSA key...
generating ssh DSA key...
done.
Starting Advanced Configuration and Power Interface daemon: acpid.
acpid: starting up

acpid: 1 rule loaded

acpid: waiting for events: event logging is off

Starting ntpd: done
Starting syslog-ng:.
Starting crond: OK

```

Cisco FTD Boot 6.0.0 (9.6.1.)

Type ? for list of commands

firepower-boot>

Sur ASA5512/15/25/45/55, la procédure est la même avec une seule différence dans le nom de l'image de démarrage :

```

rommon #0> ADDRESS=10.62.148.10
rommon #1> SERVER=10.229.22.42
rommon #2> GATEWAY=10.62.148.1
rommon #3> IMAGE=ftd-boot-9.6.1.0.cdisk

```

Méthode 2. En mode ASA

Étape 1. À partir du mode d'exécution ASA (sans ROMMON), copiez l'image de démarrage FTD

dans la mémoire flash ASA :

```
ciscoasa# copy ftp://10.48.40.70/ANG/mzafeiro/ftd-boot-9.6.1.0.lfbff flash
```

Étape 2. Supprimez toutes les images ASA du disque :

```
ciscoasa# delete flash:asa*
```

Le contenu flash après la suppression des images ASA :

```
ciscoasa# show flash
```

```
--#-- --length-- ----date/time----- path
 131 33 May 20 2016 09:27:28 .boot_string
   11 4096 Mar 03 2016 11:48:34 log
 154 16767 May 20 2016 09:23:48 log/asa-appagent.log
 155 465 Mar 03 2016 11:54:58 log/asa-ssp_ntp.log
   21 4096 Jun 10 2015 06:45:42 crypto_archive
   22 4096 Jun 10 2015 06:46:00 coredumpinfo
   23 59 Jun 10 2015 06:46:00 coredumpinfo/coredump.cfg
 134 25627616 Dec 01 2015 04:01:58 asdm-752.bin
 135 52563 Feb 09 2016 02:49:58 system.cfg
 136 25028660 Feb 09 2016 02:50:28 asdm-751-112.bin
 137 38409858 Feb 09 2016 02:51:14 anyconnect-win-3.1.10010-k9.pkg
 138 25629676 Feb 09 2016 04:38:10 asdm-752-153.bin
 151 100308208 May 20 2016 09:39:57 ftd-boot-9.6.1.0.lfbff <--
```

Étape 3 : rechargement de l'ASA Il démarre à partir de l'image de démarrage FTD :

```
Located 'ftd-boot-9.6.1.0.lfbff' @ cluster 45093.
#####
..
LFBFF signature verified.
INIT: version 2.88 booting
..
      Cisco FTD Boot 6.0.0 (9.6.1.)
      Type ? for list of commands
firepower-boot>
```

Tâche 4. Installation de l'image système FTD sur ASA55xx-X

Installez l'image système FTD sur ASA5508-X.

Solution

```
firepower-boot> setup
```

```
Welcome to Cisco FTD Setup
[hit Ctrl-C to abort]
Default values are inside []
```

```
Enter a hostname [firepower]: FTD5508
Do you want to configure IPv4 address on management interface?(y/n) [Y]:
Do you want to enable DHCP for IPv4 address assignment on management interface?(y/n) [Y]: N
Enter an IPv4 address: 10.62.148.29
Enter the netmask: 255.255.255.128
Enter the gateway: 10.62.148.1
Do you want to enable DHCP for IPv4 address assignment on management interface?(y/n) [N]: Enter
```

an IPv4 address [10.62.148.29]: Enter the netmask [255.255.255.128]: Enter the gateway [10.62.148.1]: Do you want to configure static IPv6 address on management interface?(y/n) [N]: Stateless autoconfiguration will be enabled for IPv6 addresses. Enter the primary DNS server IP address: **173.38.200.100**

Do you want to configure Secondary DNS Server? (y/n) [n]: **y**

Enter the secondary DNS server IP address: **144.254.71.184**

Do you want to configure Local Domain Name? (y/n) [n]:

Do you want to configure Search domains? (y/n) [n]:

Do you want to enable the NTP service? [Y]:

Enter the NTP servers separated by commas [203.0.113.126]: **171.68.38.65**

Please review the final configuration:

Hostname: FTD5508

Management Interface Configuration

IPv4 Configuration: static
IP Address: 10.62.148.29
Netmask: 255.255.255.128
Gateway: 10.62.148.1

IPv6 Configuration: Stateless autoconfiguration

DNS Configuration:
DNS Server: 173.38.200.100
144.254.71.184

NTP configuration:
171.68.38.65

CAUTION:

You have selected IPv6 stateless autoconfiguration, which assigns a global address based on network prefix and a device identifier. Although this address is unlikely to change, if it does change, the system will stop functioning correctly. We suggest you use static addressing instead.

Apply the changes?(y,n) [Y]:

Configuration saved successfully!

Applying...

Done.

Press ENTER to continue...

firepower-boot>

Vérifiez la connectivité avec le serveur FTP :

```
firepower-boot> ping 10.229.22.42
PING 10.229.22.42 (10.229.22.42) 56(84) bytes of data.
64 bytes from 10.229.22.42: icmp_seq=1 ttl=124 time=1.30 ms
64 bytes from 10.229.22.42: icmp_seq=2 ttl=124 time=1.32 ms
64 bytes from 10.229.22.42: icmp_seq=3 ttl=124 time=1.45 ms
^C
--- 10.229.22.42 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2002ms
rtt min/avg/max/mdev = 1.302/1.360/1.458/0.075 ms
```

Installez le package système :

```
firepower-boot> system install ftp://10.229.22.42/ftd-6.0.0-1005.pkg
```

```
##### WARNING #####
# The content of disk0: will be erased during installation! #
#####
```

Do you want to continue? [y/N] **y**

Erasing disk0 ...

Verifying

Enter credentials to authenticate with ftp server

Username: **ftp**

Password:

Verifying Downloading Extracting

<-- Here give it some time (~10 min)

Package Detail

Description: Cisco ASA-NGFW 6.0.0-1005 System Install

Requires reboot: Yes

Do you want to continue with upgrade? [y]: <-- Press Enter

Warning: Please do not interrupt the process or turn off the system.

Doing so might leave system in unusable state.

Starting upgrade process ...

Populating new system image <-- Here give it some time (~5 min)

Reboot is required to complete the upgrade. Press 'Enter' to reboot the system. <-- Press Enter

Broadcast message from root@firepowStopping OpenBSD Secure Shell server: sshdstopped
/usr/sbin/sshd (pid 1963)

.
Stopping Advanced Configuration and Power Interface daemon: stopped /usr/sbin/acpid (pid 1967)
acpid: exiting

acpid.

Stopping system message bus: dbus.

Stopping ntpd: stopped process in pidfile '/var/run/ntp.pid' (pid 2055)

done

Stopping crond: OK

Deconfiguring network interfaces... done.

Sending all processes the TERM signal...

Sending all processes the KILL signal...

Deactivating swap...

Unmounting local filesystems...

Rebooting... ÿ

Rom image verified correctly

Cisco Systems ROMMON, Version 1.1.8, RELEASE SOFTWARE

Copyright (c) 1994-2015 by Cisco Systems, Inc.

Compiled Thu 06/18/2015 12:15:56.43 by builders

Current image running: Boot ROM1

Last reset cause: PowerCycleRequest

DIMM Slot 0 : Present

DIMM Slot 1 : Present

Platform ASA5508 with 8192 Mbytes of main memory

MAC Address: 18:8b:9d:1e:ca:7c

Use BREAK or ESC to interrupt boot.

Use SPACE to begin boot immediately.

Located '.boot_string' @ cluster 186016.

#

Attempt autoboot: "boot disk0:os.img"

Located 'os.img' @ cluster 160001.

```
#####
LFBFF signature verified.
INIT: version 2.88 booting
Starting udev
Configuring network interfaces... done.
Populating dev cache
Detected PID ASA5508.
Found device serial number JAD192100SZ.
Found USB flash drive /dev/sdb
Found hard drive(s): /dev/sda
fsck from util-linux 2.23.2
dosfsck 2.11, 12 Mar 2005, FAT32, LFN
/dev/sdb1: 7 files, 26064/1919063 clusters
```

```
=====
Use ESC to interrupt boot and launch boot CLI.
Use SPACE to launch Cisco FTD immediately.
Cisco FTD launch in 20 seconds ...
```

```
Running on kenton
Mounting disk partitions ...
Initializing Threat Defense ... [ OK ]
Starting system log daemon... [ OK ]
Flushing all current IPv4 rules and user defined chains: ...success
Clearing all current IPv4 rules and user defined chains: ...success
Applying iptables firewall rules:
Flushing chain `PREROUTING'
Flushing chain `INPUT'
Flushing chain `FORWARD'
Flushing chain `OUTPUT'
Flushing chain `POSTROUTING'
Flushing chain `INPUT'
Flushing chain `FORWARD'
Flushing chain `OUTPUT'
Applying rules succeeded
Flushing all current IPv6 rules and user defined chains: ...success
Clearing all current IPv6 rules and user defined chains: ...success
Applying ip6tables firewall rules:
Flushing chain `PREROUTING'
Flushing chain `INPUT'
Flushing chain `FORWARD'
Flushing chain `OUTPUT'
Flushing chain `POSTROUTING'
Flushing chain `INPUT'
Flushing chain `FORWARD'
Flushing chain `OUTPUT'
Applying rules succeeded
Starting nscd...
mkdir: created directory '/var/run/nscd' [ OK ]
Starting , please wait...grep: /ngfw/etc/motd: No such file or directory
...complete.
Firstboot detected, executing scripts
Executing S01reset_failopen_if [ OK ]
Executing S04fix-httpd.sh [ OK ]
Executing S05set-mgmt-port [ OK ]
Executing S06addusers [ OK ]
Executing S07uuid-init [ OK ]
Executing S09configure_mysql [ OK ]
```

***** Attention *****

Initializing the configuration database. Depending on available

system resources (CPU, memory, and disk), this may take 30 minutes or more to complete.

***** Attention *****

```
Executing S10database [ OK ]
Executing S12install_infodb [ OK ]
Executing S15set-locale.sh [ OK ]
Executing S16update-sensor.pl [ OK ]
Executing S19cert-tun-init [ OK ]
Executing S20cert-init [ OK ]
Executing S21disable_estreamer [ OK ]
Executing S25create_default_des.pl [ OK ]
Executing S30init_lights_out_mgmt.pl [ OK ]
Executing S40install_default_filters.pl [ OK ]
Executing S42install_default_dashboards.pl [ OK ]
Executing S43install_default_report_templates.pl [ OK ]
Executing S44install_default_app_filters.pl [ OK ]
Executing S45install_default_realms.pl [ OK ]
Executing S47install_default_sandbox_EO.pl [ OK ]
Executing S50install-remediation-modules [ OK ]
Executing S51install_health_policy.pl [ OK ]
Executing S52install_system_policy.pl [ OK ]
Executing S53change_reconciliation_baseline.pl [ OK ]
Executing S70update_sensor_objects.sh [ OK ]
Executing S85patch_history-init [ OK ]
Executing S90banner-init [ OK ]
Executing S95copy-crontab [ OK ]
Executing S96grow_var.sh [ OK ]
```

***** Attention *****

Initializing the system's localization settings. Depending on available system resources (CPU, memory, and disk), this may take 10 minutes or more to complete.

***** Attention *****

```
Executing S96localize-templates [ OK ]
Executing S96ovf-data.pl [ OK ]
Executing S97compress-client-resources [ OK ]
Executing S97create_platinum_forms.pl [ OK ]
Executing S97install_cloud_support.pl [ OK ]
Executing S97install_geolocation.pl [ OK ]
Executing S97install_ssl_inspection.pl [ OK ]
Executing S97update_modprobe.pl [ OK ]
Executing S98check-db-integrity.sh [ OK ]
Executing S98htaccess-init [ OK ]
Executing S99correct_ipmi.pl [ OK ]
Executing S99start-system [ OK ]
Executing S99z_db_restore [ OK ]
Firstboot scripts finished.
Configuring NTP... [ OK ]
Model reconfigure detected, executing scripts
Pinging mysql
Found mysql is running
Executing 45update-sensor.pl [ OK ]
Executing 55recalculate_arc.pl [ OK ]
Starting xinetd:
Mon Mar 14 18:28:11 UTC 2016
Starting MySQL...
Pinging mysql
Pinging mysql, try 1
Found mysql is running
Running initializeObjects...
```

```

Stopping MySQL...
Killing mysqld with pid 10993
Wait for mysqld to exit\c
done
Mon Mar 14 18:28:21 UTC 2016
Starting sfid... [ OK ]
Starting Cisco ASA5508-X Threat Defense, please wait...No PM running!
...started.
INIT: Starting system message bus: dbus.
Starting OpenBSD Secure Shell server: sshd
generating ssh RSA key...
generating ssh ECDSA key...
generating ssh DSA key...
done.
Starting Advanced Configuration and Power Interface daemon: acpid.
Starting crond: OK
Mar 14 18:28:26 ciscoasa SF-IMS[11490]: [11490] init script:system [INFO] pmmon Setting affinity
to 5-7...
pid 11486's current affinity list: 0-7
pid 11486's new affinity list: 5-7
Mar 14 18:28:26 ciscoasa SF-IMS[11492]: [11492] init script:system [INFO] pmmon The Process
Manager is not running...
Mar 14 18:28:26 ciscoasa SF-IMS[11493]: [11493] init script:system [INFO] pmmon Starting the
Process Manager...
Mar 14 18:28:26 ciscoasa SF-IMS[11494]: [11494] pm:pm [INFO] Using model number 75K

Cisco ASA5508-X Threat Defense v6.0.0 (build 1005)
ciscoasa login:
Compiled on Sat 07-Nov-15 16:13 PST by builders

Total NICs found: 13
i354 rev03 Gigabit Ethernet @ irq255 dev 20 index 08 MAC: 188b.9d1e.ca7c
ivshmem rev03 Backplane Data Interface @ index 09 MAC: 0000.0001.0002
en_vtun rev00 Backplane Control Interface @ index 10 MAC: 0000.0001.0001
en_vtun rev00 Backplane Int-Mgmt Interface @ index 11 MAC: 0000.0001.0003
en_vtun rev00 Backplane Ext-Mgmt Interface @ index 12 MAC: 0000.0000.0000

INFO: Unable to read firewall mode from flash
Writing default firewall mode (single) to flash

INFO: Unable to read cluster interface-mode from flash
Writing default mode "None" to flash
Verify the activation-key, it might take a while...
Failed to retrieve permanent activation key.
Running Permanent Activation Key: 0x00000000 0x00000000 0x00000000 0x00000000 0x00000000
The Running Activation Key is not valid, using default settings:

Licensed features for this platform:
Maximum Physical Interfaces : Unlimited perpetual
Maximum VLANs : 50 perpetual
Inside Hosts : Unlimited perpetual
Failover : Active/Active perpetual
Encryption-DES : Enabled perpetual
Encryption-3DES-AES : Disabled perpetual
Security Contexts : 2 perpetual
GTP/GPRS : Disabled perpetual
AnyConnect Premium Peers : 4 perpetual
AnyConnect Essentials : Disabled perpetual
Other VPN Peers : 100 perpetual
Total VPN Peers : 100 perpetual
Shared License : Disabled perpetual
AnyConnect for Mobile : Disabled perpetual
AnyConnect for Cisco VPN Phone : Disabled perpetual
Advanced Endpoint Assessment : Disabled perpetual

```


Total UC Proxy Sessions : 320 perpetual
Botnet Traffic Filter : Disabled perpetual
Cluster : Disabled perpetual
VPN Load Balancing : Enabled perpetual

Encryption hardware device : Cisco ASA Crypto on-board accelerator (revision 0x1)

Cisco Adaptive Security Appliance Software Version 99.1(3)194

***** Warning *****

This product contains cryptographic features and is subject to United States and local country laws governing, import, export, transfer, and use. Delivery of Cisco cryptographic products does not imply third-party authority to import, export, distribute, or use encryption. Importers, exporters, distributors and users are responsible for compliance with U.S. and local country laws. By using this product you agree to comply with applicable laws and regulations. If you are unable to comply with U.S. and local laws, return the enclosed items immediately.

A summary of U.S. laws governing Cisco cryptographic products may be found at:
<http://www.cisco.com/wwl/export/crypto/tool/stqrg.html>

If you require further assistance please contact us by sending email to export@cisco.com.

***** Warning *****

... output omitted ...

Reading from flash...

!
Cryptochecksum (changed): 6129864f 6298b553 75f279ea e547792b

INFO: Power-On Self-Test in process.

.....
INFO: Power-On Self-Test complete.

INFO: Starting HW-DRBG health test...

INFO: HW-DRBG health test passed.

INFO: Starting SW-DRBG health test...

INFO: SW-DRBG health test passed.

Cisco ASA5508-X Threat Defense v6.0.0 (build 1005)

firepower login: **admin**

Password: <-- **Admin123**

You must accept the EULA to continue.

Press

... EULA is displayed - output is omitted

END USER LICENSE AGREEMENT

Please enter 'YES' or press to AGREE to the EULA:

System initialization in progress. Please stand by.
You must change the password for 'admin' to continue.
Enter new password:
Confirm new password:
You must configure the network to continue.
You must configure at least one of IPv4 or IPv6.

```
Do you want to configure IPv4? (y/n) [y]: Do you want to configure IPv6? (y/n) [n]:
Configure IPv4 via DHCP or manually? (dhcp/manual) [manual]:
Enter an IPv4 address for the management interface [192.168.45.45]: 10.62.148.29
Enter an IPv4 netmask for the management interface [255.255.255.0]: 255.255.255.128
Enter the IPv4 default gateway for the management interface []: 10.62.148.1
Enter a fully qualified hostname for this system [firepower]: FTD5508
Enter a comma-separated list of DNS servers or 'none' []: 173.38.200.100,144.254.71.184
Enter a comma-separated list of search domains or 'none' []:
If your networking information has changed, you will need to reconnect.
For HTTP Proxy configuration, run 'configure network http-proxy'
```

```
Configure firewall mode? (routed/transparent) [routed]:
Configuring firewall mode ...
```

```
Update policy deployment information
- add device configuration
```

You can register the sensor to a Firepower Management Center and use the Firepower Management Center to manage it. Note that registering the sensor to a Firepower Management Center disables on-sensor Firepower Services management capabilities.

When registering the sensor to a Firepower Management Center, a unique alphanumeric registration key is always required. In most cases, to register a sensor to a Firepower Management Center, you must provide the hostname or the IP address along with the registration key.

```
'configure manager add [hostname | ip address ] [registration key ]'
```

However, if the sensor and the Firepower Management Center are separated by a NAT device, you must enter a unique NAT ID, along with the unique registration key.

```
'configure manager add DONTRESOLVE [registration key ] [ NAT ID ]'
```

Later, using the web interface on the Firepower Management Center, you must use the same registration key and, if necessary, the same NAT ID when you add this sensor to the Firepower Management Center.

```
>
```

Astuce : Vous pouvez utiliser l'option **noconfirm** pour installer l'image. Dans ce cas, vous ne recevez pas d'invite pendant l'installation.

```
firepower-boot>system install noconfirm ftp://10.229.22.42/ftd-6.0.0-1005.pkg
```

Sur FTD 6.1.x et versions ultérieures, vous êtes invité à passer en mode de gestion (local ou distant).

```
For HTTP Proxy configuration, run 'configure network http-proxy'
```

```
Manage the device locally? (yes/no) [yes]: no
Configure firewall mode? (routed/transparent) [routed]:
```

Mode local = Applicable uniquement sur les périphériques ASA55xx-X. Vous gérez le FTD à partir de Firepower Device Manager (FDM).

Mode distant = Vous gérez le FTD à partir de FMC

Vérification

```
> show version
```

```
-----[ FTD5508 ]-----  
Model : Cisco ASA5508-X Threat Defense (75) Version 6.0.0 (Build 1005)  
UUID : 8c3f4b7e-ea11-11e5-94f1-f3a55afb51a3  
Rules update version : 2015-10-01-001-vrt  
VDB version : 252  
-----
```

```
>
```

L'installation de l'image système sur ASA5512/15/25/45/55 est la même que ci-dessus.

Tâche 5. Enregistrer le FTD sur FMC

Enregistrer FTD sur le serveur FMC à l'aide des paramètres suivants :

Hôte	10.62.148.29
Nom d'affichage	FTD5508
Clé d'enregistrement	cisco
Groupe	Aucun
Stratégie de contrôle d'accès	FTD5508
Stratégie de base de contrôle d'accès	Aucune
Action par défaut de la stratégie de contrôle d'accès	Bloquer tout le trafic

Solution

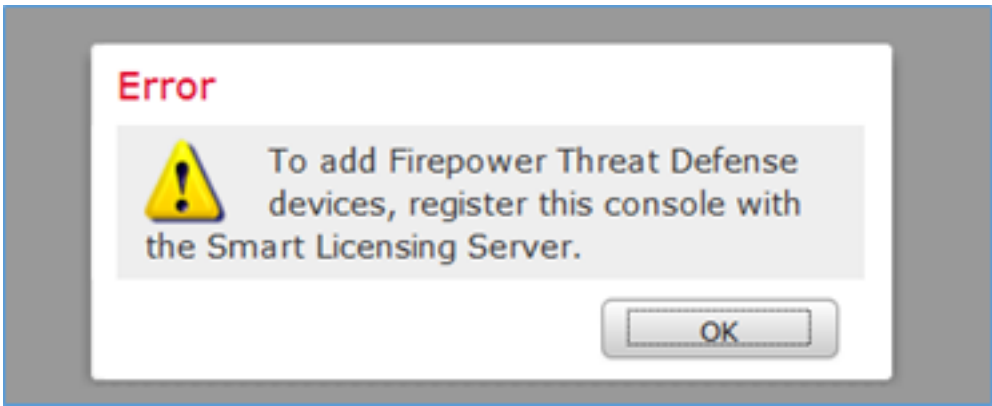
Étape 1. Sur FTD, spécifiez le serveur FMC :

```
> configure manager add 10.62.148.73 cisco  
Manager successfully configured.  
Please make note of reg_key as this will be required while adding Device in FMC.
```

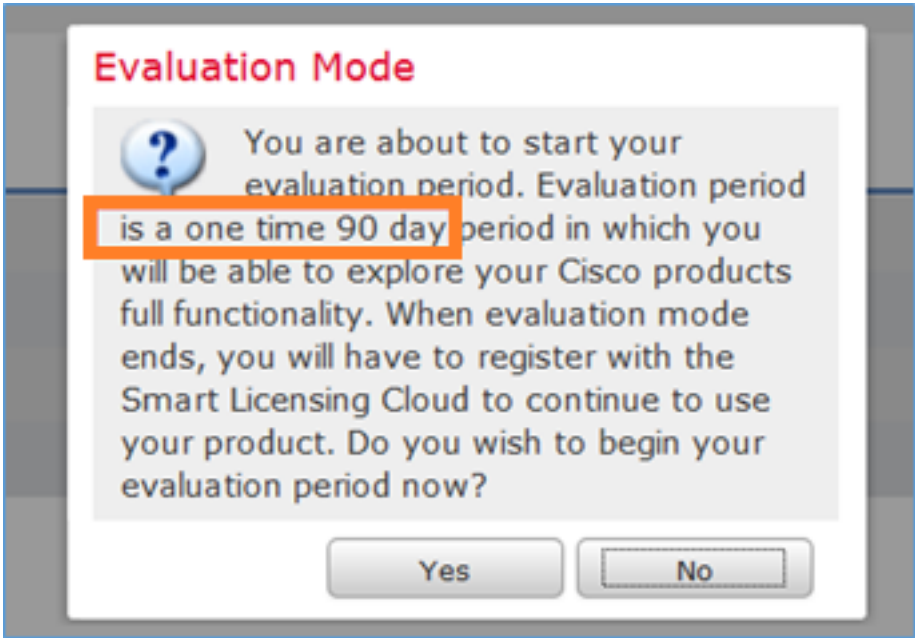
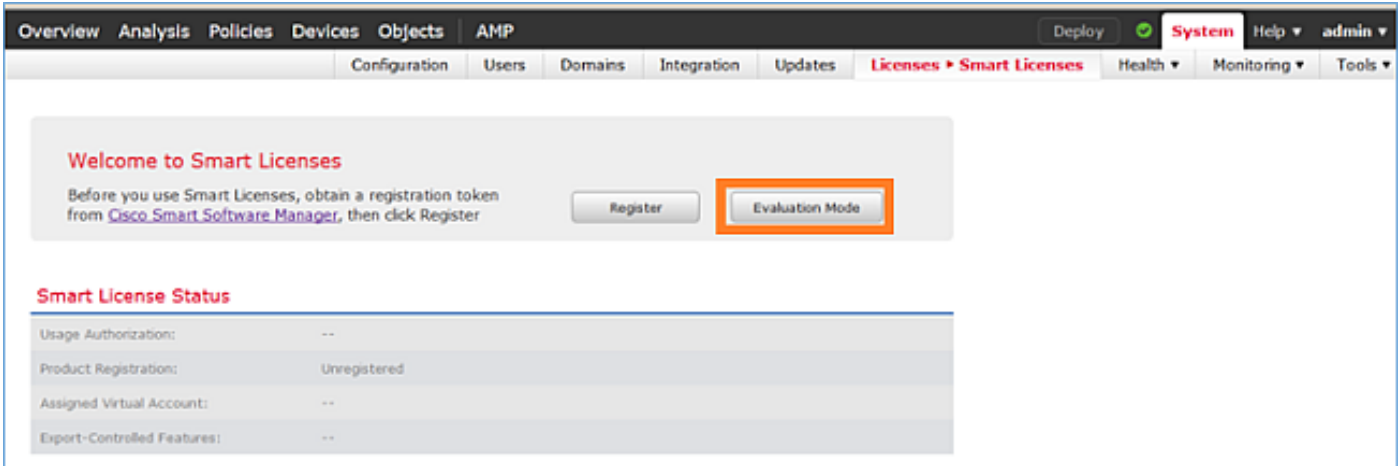
```
> show managers  
Host : 10.62.148.73  
Registration Key : ****  
Registration : pending  
RPC Status :  
Type : Manager  
Host : 10.62.148.73  
Registration : Pending
```

```
>
```

Étape 2. Avant d'ajouter le FTD, vous devez enregistrer le FMC auprès du serveur de licences Smart. Si vous essayez d'ajouter un périphérique FTD sans licence Smart, vous obtenez l'erreur suivante :



Vous pouvez choisir le mode d'évaluation. Cela vous permet d'utiliser FTD pendant 90 jours sans fonctionnalités nécessitant un chiffrement fort (par exemple VPN).



Overview Analysis Policies Devices Objects AMP Deploy System Help admin

Configuration Users Domains Integration Updates Licenses Smart Licenses Health Monitoring Tools

Welcome to Smart Licenses

Before you use Smart Licenses, obtain a registration token from [Cisco Smart Software Manager](#), then click Register Register

Smart License Status [Cisco Smart Software Manager](#)

Usage Authorization: N/A

Product Registration: ✔ Evaluation Period (Expires in 89 days)

Assigned Virtual Account: Evaluation Mode

Export-Controlled Features: Enabled

Smart Licenses Filter Devices... Edit Licenses

License Type/Device Name	License Status	Device Type	Domain	Group
Base (0)				
Malware (0)				
Threat (0)				
URL Filtering (0)				

Étape 3. Sur FMC, créez d'abord la stratégie de contrôle d'accès qui sera utilisée par FTD. Accédez à **Stratégies > Contrôle d'accès** et sélectionnez **Nouvelle stratégie** :

Overview Analysis **Policies**

Access Control Network Discovery

Access Control

Deploy ✔ System Help admin

Object Management Intrusion Network Analysis Policy DNS Import/Export

New Policy

New Policy ? x

Name:

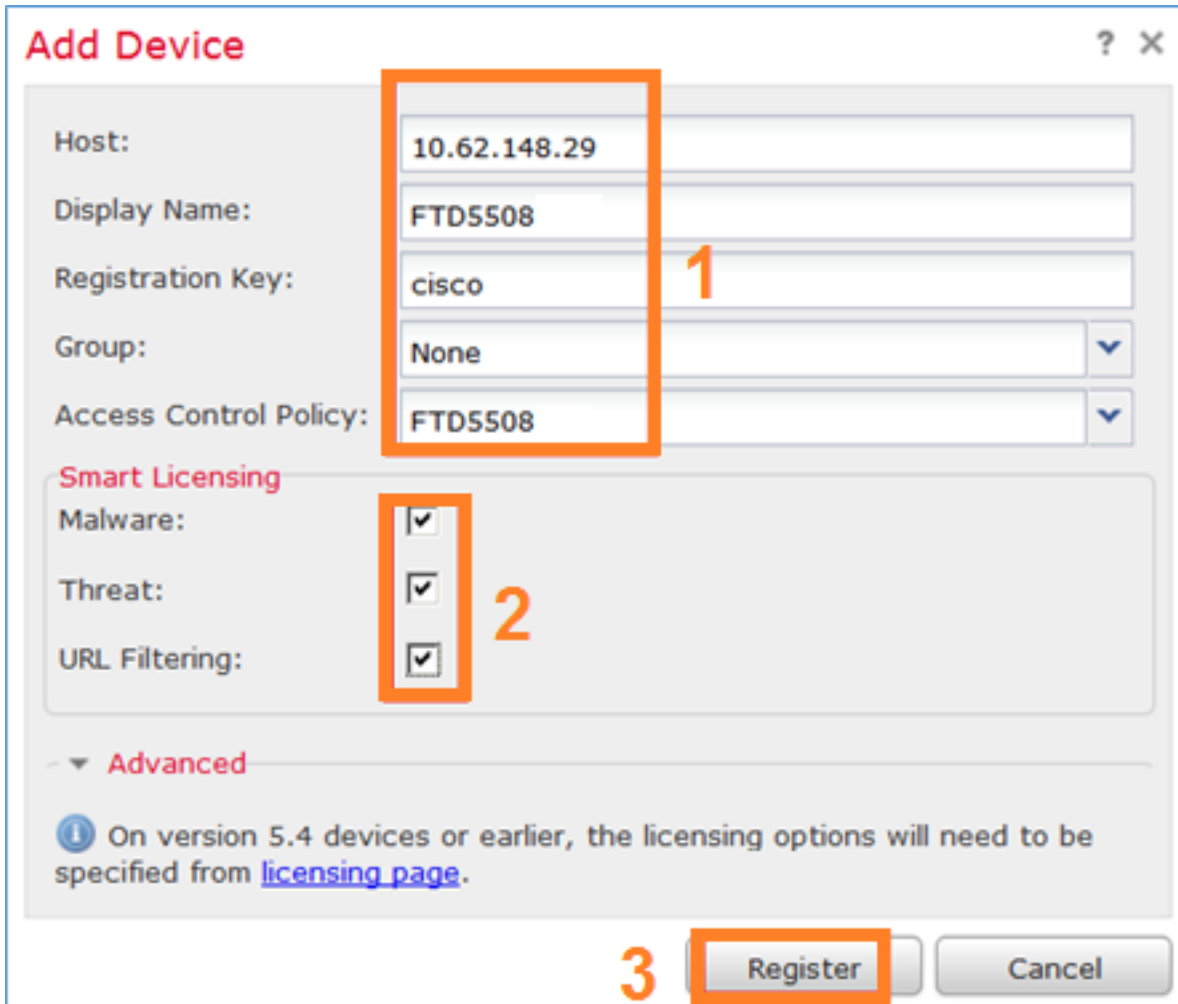
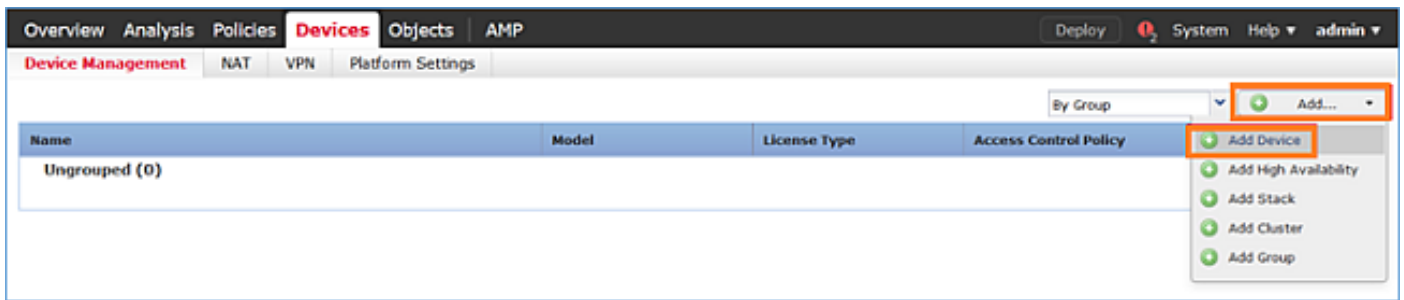
Description:

Select Base Policy:

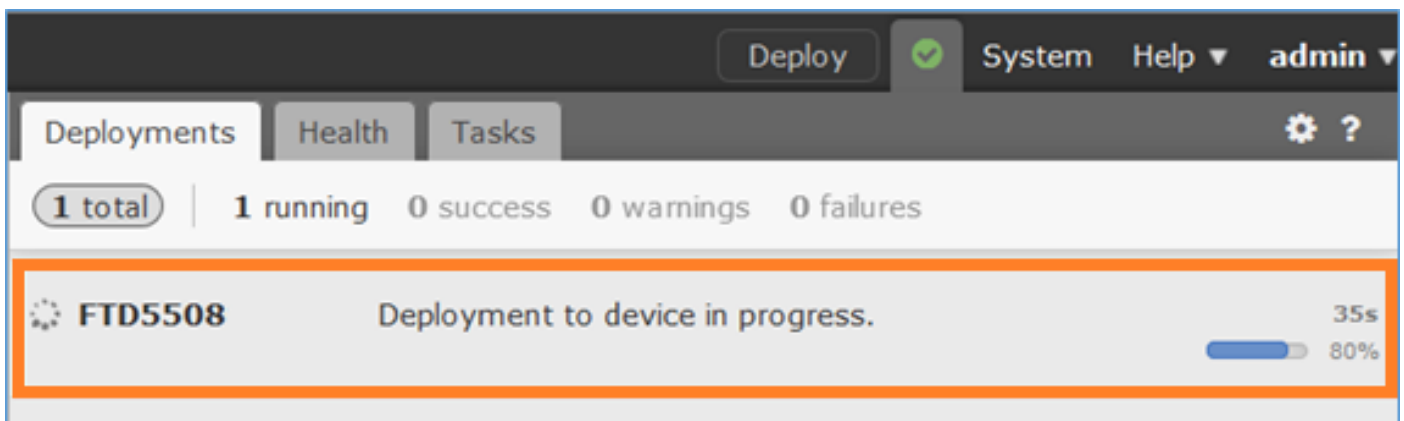
Default Action: Block all traffic Intrusion Prevention Network Discovery

Targeted Devices

Ajoutez ensuite le périphérique FTD :



À la fin de l'ajout FTD, une politique est déployée :



Pour vérifier ce qui se passe en arrière-plan lors de l'ajout du périphérique FTD activez **pigtail** sur FMC et FTD.

Sur FMC :

```
admin@fs4k:~$ sudo pigtail
```

```
*****  
*****  
** Displaying logs: ACTQ HTTP DCSM VMSS MOJO NGFW NGUI VMSB TCAT DEPL MSGS USMS  
*****  
*****
```

Sur FTD :

```
> pigtail
```

```
*****  
** Displaying logs: HTTP ACTQ DCSM VMSS MOJO NGUI NGFW TCAT VMSB DEPL USMS MSGS  
*****
```

Note: Si l'état de l'interface de gestion FTD est désactivé, assurez-vous que la valeur confreg est 0x1.

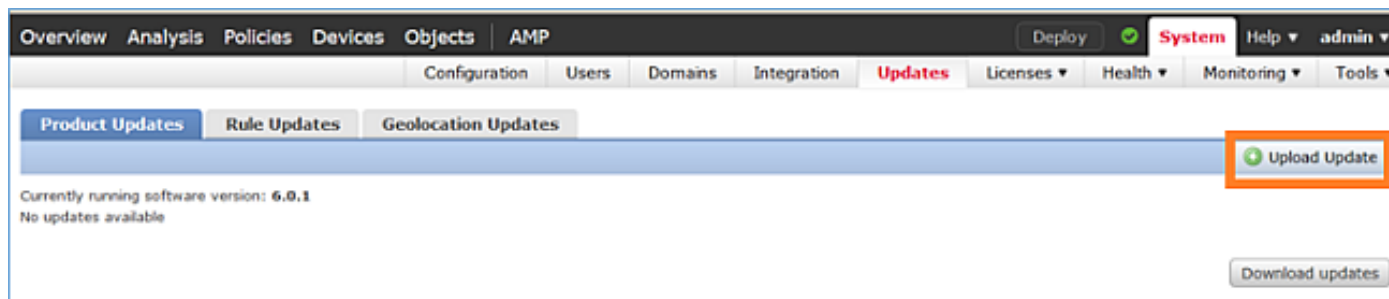
Tâche 6. Mettre à niveau le FTD

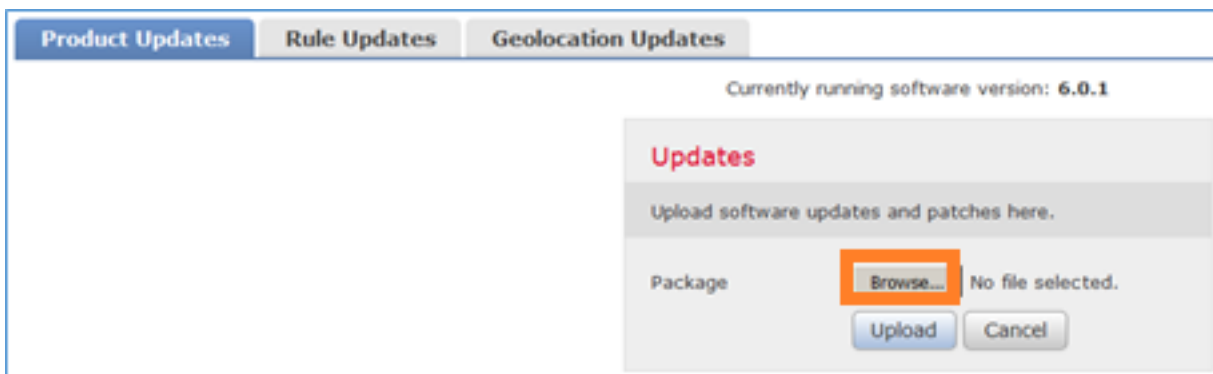
Dans cette tâche, mettez à niveau FTD de 6.0.0 à 6.0.1.

	Version	Nom de fichier
Image FTD initiale	Version 6.0.0 (Build 1005)	ftd-6.0.0-1005.pkg
Image FTD cible	Version 6.0.1 (build 1213)	Cisco_FTD_Upgrade-6.0.1-1213.sh

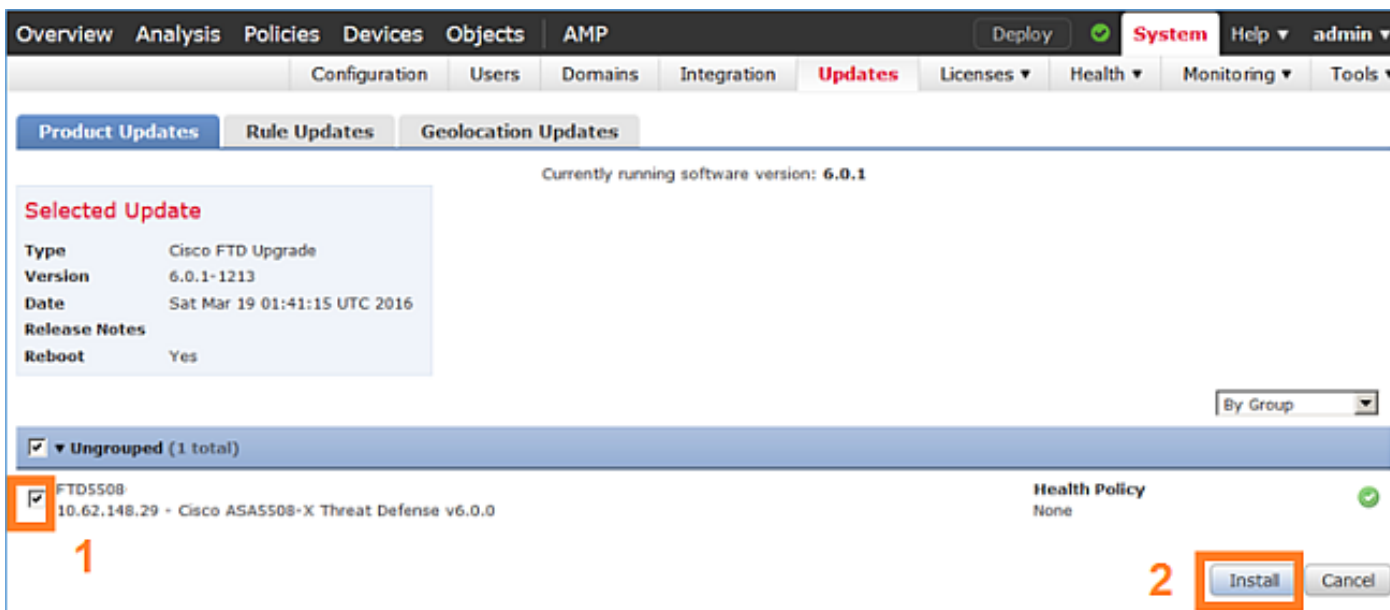
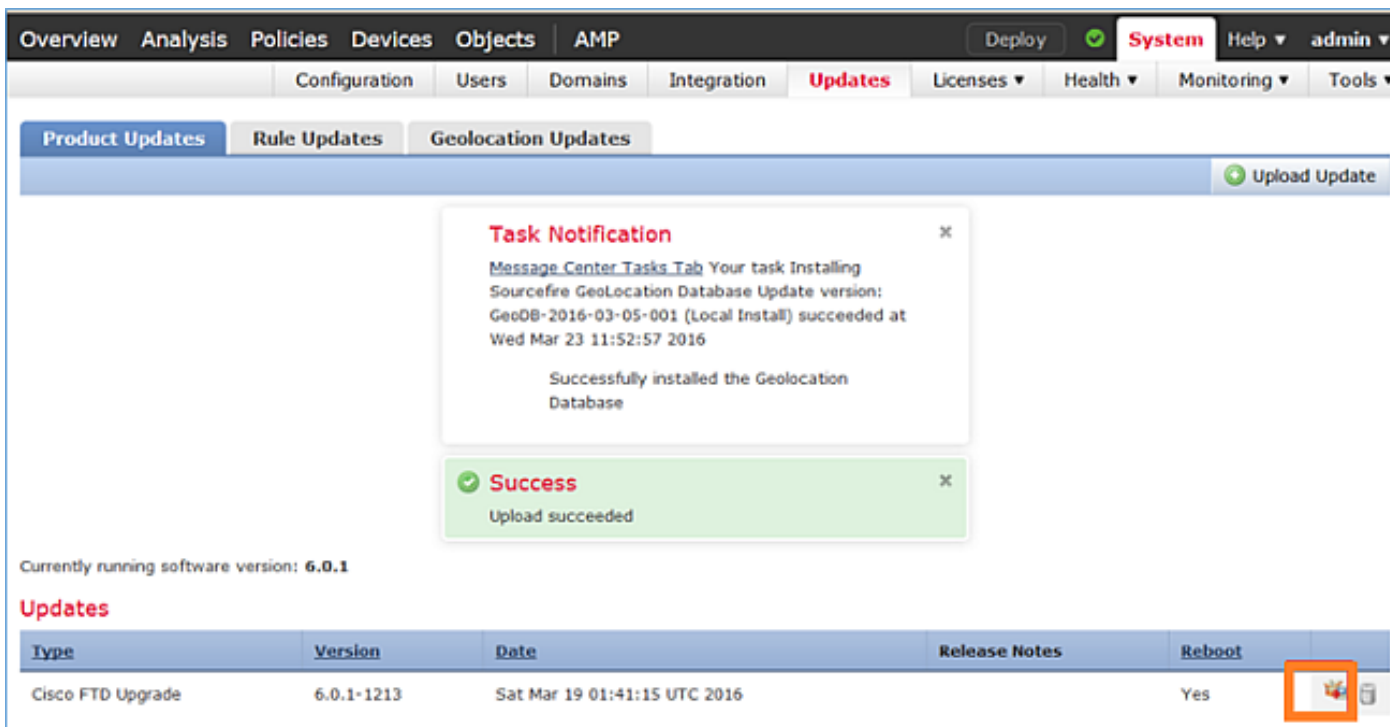
Solution

Étape 1. Télécharger l'image FTD dans FMC :

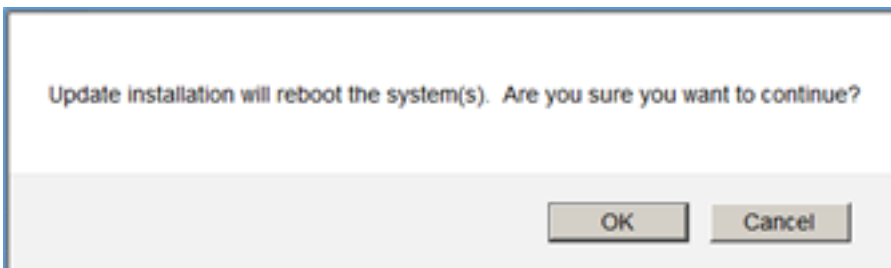




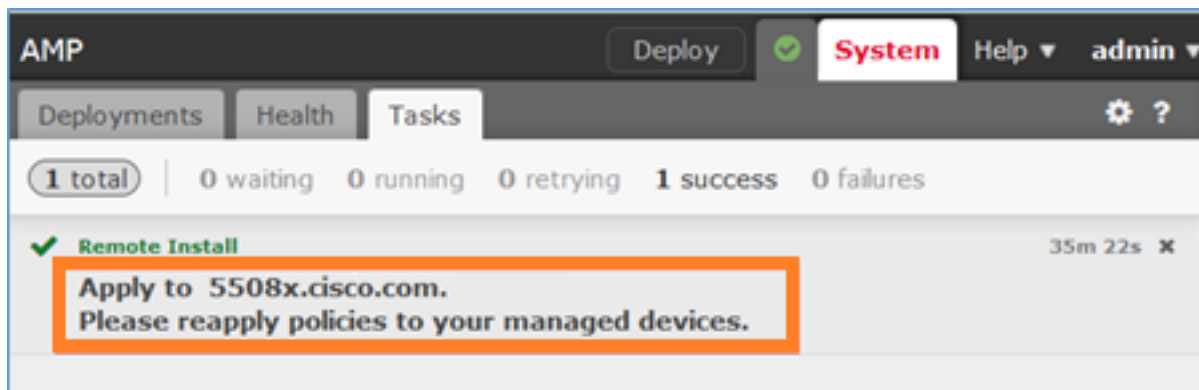
Étape 2. Installer l'image FTD :



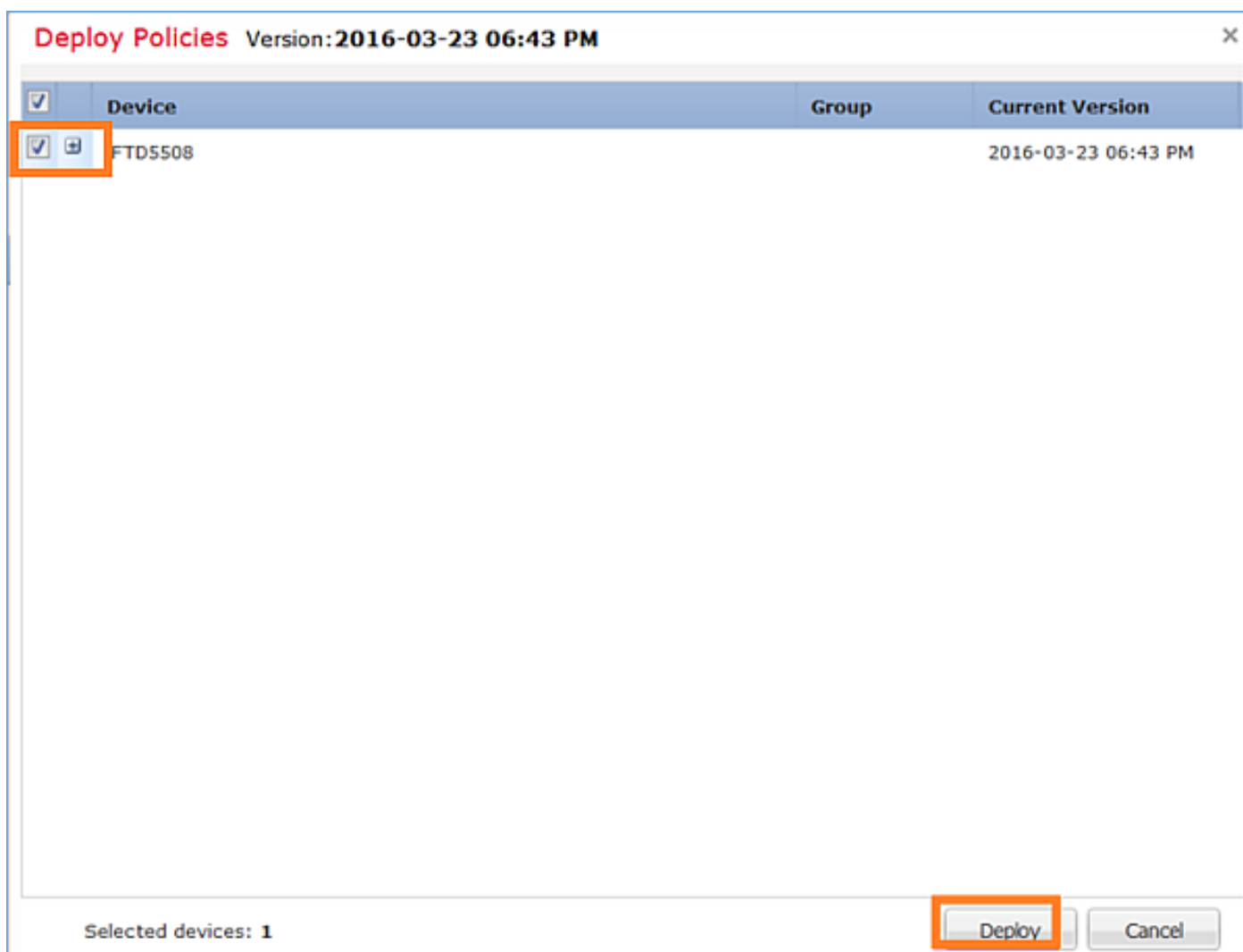
Un avertissement concernant le rechargement FTD s'affiche :



La mise à niveau dans ce cas a pris environ 35 minutes. Comme indiqué ci-dessous, il est nécessaire de réappliquer la stratégie :



Déployer les stratégies :



Vérification

Après la mise à niveau FTD :

```
> show version
-----[ FTD5508 ]-----
Model                : Cisco ASA5508-X Threat Defense (75) Version 6.0.1 (Build 1213)
UUID                 : 53b44806-f0f4-11e5-88cc-c72c24d24877
Rules update version : 2016-03-04-001-vrt
VDB version          : 259
-----
```

>

Tâche 7. Se connecter et se détacher du mode CLI du moteur LINA

Passez en mode CLI LINA, puis déconnectez-vous.

Solution

En mode CLISH FTD, entrez la commande suivante :

```
> system support diagnostic-cli
Attaching to ASA console ... Press 'Ctrl+a then d' to detach.
Type help or '?' for a list of available commands.
```

```
firepower>
firepower> enable
Password: <-- by default empty (null)
firepower#
```

Comme indiqué dans le message ci-dessus, pour déconnecter (détacher) de la console FTD LINA, tapez CTRL + a, puis appuyez sur d :

```
firepower# <- 'Ctrl+a then d' Console connection detached.
admin@FTD5508:~$
```

Tâche 8. Réinstaller une installation FTD existante

Exigence

Réinstallez l'image FTD existante et installez la version 6.1.0-330.

Solution

Cette tâche suppose qu'il existe un appareil FTD exécutant le code 6.0.1.x et pour toutes les raisons qu'il faut le réinstaller (par exemple, corruption de base de données irrécupérable, défaut catastrophique qui ne permet pas la mise à niveau logicielle, etc.).

Synthèse des étapes

1. Vérification de compatibilité.
2. Désinscrire FTD de FMC.
3. Rechargez l'appareil FTD et entrez BootCLI.
4. Exécutez l'assistant de configuration.
5. Installez l'image système FTD.
6. Enregistrez FTD dans FMC.

Étapes détaillées

Étape 1. Vérifiez les notes de version de Firepower et assurez-vous que l'image FTD que vous voulez utiliser est compatible avec le FMC. Si ce n'est pas le cas, mettez d'abord à niveau le FMC.

Étape 2. Désinscrire (supprimer) FTD de FMC. Cette étape est nécessaire car après la réimage de FTD son UUID change et ne peut pas être enregistré à nouveau, mais doit être ajouté à partir de zéro.

Étape 3. Rechargez l'appareil FTD et entrez BootCLI. Comme une image FTD existante est déjà installée, l'installation de l'image de démarrage FTD peut être ignorée :

```
> reboot
```

```
This command will reboot the system. Continue?
```

```
Please enter 'YES' or 'NO': YES
```

```
Broadcast messagStopping Cisco ASA5506-X Threat Defense.....ok
Shutting down sfifd... [ OK ]
Clearing static routes
Unconfiguring default route [ OK ]
Unconfiguring address on br1 [ OK ]
Unconfiguring IPv6 [ OK ]
Downing interface [ OK ]
Stopping nscd... [ OK ]
Stopping system log daemon... [ OK ]
Stopping Threat Defense ...
cp: cannot stat '/etc/ssh': No such file or directory
Stopping system message bus: dbus.
rmdir: failed to remove directory '/etc': Directory not empty [ OK ]
Un-mounting disk partitions ...
...
```



```
dosfsck 2.11, 12 Mar 2005, FAT32, LFN
/dev/sdb1: 42 files, 24805/1798467 clusters
```

```
=====
Use ESC to interrupt boot and launch boot CLI.
Use SPACE to launch Cisco FTD immediately.
Cisco FTD launch in 23 seconds ...           < Press ESC to enter BootCLI
Launching boot CLI ...
Configuring network interface using DHCP
Bringing up network interface.
Depending on your network, this might take a couple of minutes when using DHCP...
ifup: interface lo already configured
Using IPv6 address: fe80::863d:c6ff:fela:cf38
IPv4 address not assigned. Run 'setup' before installation.
INIT: Starting system message bus: dbus.
Starting OpenBSD Secure Shell server: sshd
    generating ssh RSA key...
    generating ssh ECDSA key...
    generating ssh DSA key...
done.
Starting Advanced Configuration and Power Interface daemon: acpid.
acpid: starting up

acpid: 1 rule loaded

acpid: waiting for events: event logging is off

Starting ntpd: done
Starting syslog-ng:[2017-01-14T11:20:33.699619] Connection failed; fd='15',
server='AF_INET(127.128.254.1:514)', local='AF_INET(0.0.0.0:0)', error='Network is unreachable
(101)'
[2017-01-14T11:20:33.699704] Initiating connection failed, reconnecting; time_reopen='60'
.
Starting crond: OK

Cisco FTD Boot 6.0.0 (9.6.2.)
Type ? for list of commands
firepower-boot>
```

Étape 4. Exécutez l'assistant de configuration et définissez les paramètres réseau de base :

```
firepower-boot>setup

Welcome to Cisco FTD Setup
[hit Ctrl-C to abort]
Default values are inside []

Enter a hostname [firepower]: FTD5506
Do you want to configure IPv4 address on management interface?(y/n) [Y]: Y
Do you want to enable DHCP for IPv4 address assignment on management interface?(y/n) [Y]: n
Enter an IPv4 address: 10.48.66.83
Enter the netmask: 255.255.255.128
Enter the gateway: 10.48.66.1
Do you want to configure static IPv6 address on management interface?(y/n) [N]: N
Stateless autoconfiguration will be enabled for IPv6 addresses.
```

```
Enter the primary DNS server IP address: 192.168.0.1
Do you want to configure Secondary DNS Server? (y/n) [n]: n
Do you want to configure Local Domain Name? (y/n) [n]: n
Do you want to configure Search domains? (y/n) [n]: n
Do you want to enable the NTP service? [Y]: n
```

Please review the final configuration:

Hostname: FTD5506

Management Interface Configuration

```
IPv4 Configuration: static
  IP Address: 10.48.66.83
  Netmask: 255.255.255.128
  Gateway: 10.48.66.1
```

IPv6 Configuration: Stateless autoconfiguration

```
DNS Configuration:
  DNS Server: 192.168.0.1
```

NTP configuration: Disabled

CAUTION:

You have selected IPv6 stateless autoconfiguration, which assigns a global address based on network prefix and a device identifier. Although this address is unlikely to change, if it does change, the system will stop functioning correctly. We suggest you use static addressing instead.

Apply the changes?(y,n) [Y]: **Y**

Configuration saved successfully!

Applying...

Restarting network services...

Done.

Press ENTER to continue...

firepower-boot>

Étape 5. Vérifiez la connectivité avec le serveur (FTP, HTTP, etc.) qui contient l'image système FTD et démarrez l'installation :

```
firepower-boot>ping 10.48.40.70
```

```
PING 10.48.40.70 (10.48.40.70) 56(84) bytes of data.
64 bytes from 10.48.40.70: icmp_seq=1 ttl=64 time=555 ms
64 bytes from 10.48.40.70: icmp_seq=2 ttl=64 time=0.465 ms
64 bytes from 10.48.40.70: icmp_seq=3 ttl=64 time=0.511 ms
--- 10.48.40.70 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2000ms
rtt min/avg/max/mdev = 0.465/185.466/555.424/261.599 ms
```

```
firepower-boot > system install noconfirm ftp://anonymous:cisco@10.48.40.70/ftd-6. 1.0-330.pkg
```

```
##### WARNING #####
# The content of disk0: will be erased during installation! #
#####
```

Do you want to continue? [y/N] **y**

Erasing disk0 ...

Verifying

Downloading

Extracting

Package Detail

Description: Cisco ASA-FTD 6.1.0-330 System Install
Requires reboot: Yes

Warning: Please do not interrupt the process or turn off the system.
Doing so might leave system in unusable state.

Starting upgrade process ...
Populating new system image

... output omitted ...

Firstboot detected, executing scripts
Executing S01reset_failopen_if [OK]
Executing S01virtual-machine-reconfigure [OK]
Executing S02aws-pull-cfg [OK]
Executing S02configure_onbox [OK]
Executing S04fix-httpd.sh [OK]
Executing S05set-mgmt-port [OK]
Executing S06addusers [OK]
Executing S07uuid-init [OK]
Executing S08configure_mysql [OK]

***** Attention *****

Initializing the configuration database. Depending on available system resources (CPU, memory, and disk), this may take 30 minutes or more to complete.

***** Attention *****

Executing S09database-init [OK]
Executing S11database-populate [OK]
Executing S12install_infodb [OK]
Executing S15set-locale.sh [OK]
Executing S16update-sensor.pl [OK]
Executing S19cert-tun-init [OK]
Executing S20cert-init [OK]
Executing S21disable_estreamer [OK]
Executing S25create_default_des.pl [OK]
Executing S30init_lights_out_mgmt.pl [OK]
Executing S40install_default_filters.pl [OK]
Executing S42install_default_dashboards.pl [OK]
Executing S43install_default_report_templates.pl [OK]
Executing S44install_default_app_filters.pl [OK]
Executing S45install_default_realms.pl [OK]
Executing S47install_default_sandbox_EO.pl [OK]
Executing S50install-remediation-modules [OK]
Executing S51install_health_policy.pl [OK]
Executing S52install_system_policy.pl [OK]
Executing S53change_reconciliation_baseline.pl [OK]
Executing S70remove_casuser.pl [OK]
Executing S70update_sensor_objects.sh [OK]
Executing S85patch_history-init [OK]
Executing S90banner-init [OK]
Executing S95copy-crontab [OK]
Executing S96grow_var.sh [OK]
Executing S96install_vmware_tools.pl [OK]

***** Attention *****

Initializing the system's localization settings. Depending on available system resources (CPU, memory, and disk), this may take 10 minutes or more to complete.

```

***** Attention *****
Executing S96localize-templates [ OK ]
Executing S96ovf-data.pl [ OK ]
Executing S97compress-client-resources [ OK ]
Executing S97create_platinum_forms.pl [ OK ]
Executing S97install_cas [ OK ]
Executing S97install_cloud_support.pl [ OK ]
Executing S97install_geolocation.pl [ OK ]
Executing S97install_ssl_inspection.pl [ OK ]
Executing S97update_modprobe.pl [ OK ]
Executing S98check-db-integrity.sh [ OK ]
Executing S98htaccess-init [ OK ]
Executing S98is-sru-finished.sh [ OK ]
Executing S99correct_ipmi.pl [ OK ]
Executing S99start-system [ OK ]
Executing S99z_db_restore [ OK ]
Executing S99_z_cc-integrity.sh [ OK ]
Firstboot scripts finished.
Configuring NTP... [ OK ]
fatattr: can't open '/mnt/disk0/.private2': No such file or directory
fatattr: can't open '/mnt/disk0/.ngfw': No such file or directory
Model reconfigure detected, executing scripts
Pinging mysql
Found mysql is running
Executing 45update-sensor.pl [ OK ]
Executing 55recalculate_arc.pl [ OK ]
Starting xinetd:
Sat Jan 14 12:07:35 UTC 2017
Starting MySQL...
Pinging mysql
Pinging mysql, try 1
Pinging mysql, try 2
Found mysql is running
Running initializeObjects...
Stopping MySQL...
Killing mysqld with pid 22354
Wait for mysqld to exit\c
done
Sat Jan 14 12:07:57 UTC 2017
Starting sfid... [ OK ]
Starting Cisco ASA5506-X Threat Defense, please wait...No PM running!
...started.
... output omitted ...
firepower login: admin
Password: < Admin123
You must accept the EULA to continue.
Press <ENTER> to display the EULA:
END USER LICENSE AGREEMENT

...

Please enter 'YES' or press <ENTER> to AGREE to the EULA:

System initialization in progress. Please stand by.
You must change the password for 'admin' to continue.
Enter new password:
Confirm new password:
You must configure the network to continue.
You must configure at least one of IPv4 or IPv6.
Do you want to configure IPv4? (y/n) [y]:
Do you want to configure IPv6? (y/n) [n]:
Configure IPv4 via DHCP or manually? (dhcp/manual) [manual]:
Enter an IPv4 address for the management interface [192.168.45.45]: 10.48.66.83
Enter an IPv4 netmask for the management interface [255.255.255.0]: 255.255.255.128

```



```
Enter the IPv4 default gateway for the management interface [192.168.45.1]: 10.48.66.1
Enter a fully qualified hostname for this system [firepower]: FTD5506
Enter a comma-separated list of DNS servers or 'none' []: 192.168.0.1
Enter a comma-separated list of search domains or 'none' []:
If your networking information has changed, you will need to reconnect.
For HTTP Proxy configuration, run 'configure network http-proxy'
```

```
Manage the device locally? (yes/no) [yes]: no
Configure firewall mode? (routed/transparent) [routed]:
Configuring firewall mode ...
```

```
Update policy deployment information
- add device configuration
- add network discovery
- add system policy
```

You can register the sensor to a Firepower Management Center and use the Firepower Management Center to manage it. Note that registering the sensor to a Firepower Management Center disables on-sensor Firepower Services management capabilities.

When registering the sensor to a Firepower Management Center, a unique alphanumeric registration key is always required. In most cases, to register a sensor to a Firepower Management Center, you must provide the hostname or the IP address along with the registration key.

```
'configure manager add [hostname | ip address ] [registration key ]'
```

However, if the sensor and the Firepower Management Center are separated by a NAT device, you must enter a unique NAT ID, along with the unique registration key.

```
'configure manager add DONTRESOLVE [registration key ] [ NAT ID ]'
```

Later, using the web interface on the Firepower Management Center, you must use the same registration key and, if necessary, the same NAT ID when you add this sensor to the Firepower Management Center.

Étape 6. Enregistrer FTD dans FMC

```
> configure manager add 10.62.148.50 cisco
Manager successfully configured.
Please make note of reg_key as this will be required while adding Device in FMC.
```

```
> show managers
Host                : 10.62.148.50
Registration Key     : ****
Registration         : pending
RPC Status           :
```

Sur FMC, accédez à **Devices > Device Management** afin d'ajouter le périphérique FTD.

Après avoir ajouté FTD à FMC, vous devez :

- Reconfigurer les paramètres du périphérique tels que les interfaces et le routage

- Reconfigurer les stratégies telles que VPN et QoS
- Réappliquer les stratégies et paramètres précédemment appliqués, tels que les paramètres de stratégie de contrôle d'accès, NAT et de plate-forme

Informations connexes

- [Guides d'installation et de mise à niveau](#)
- [Réinstaller le périphérique Cisco ASA ou Firepower Threat Defense](#)
- [Support et documentation techniques - Cisco Systems](#)