

FirePOWER ديدهت ن ع ا ف د ل ا ت ي ب ث ت ASA 55xx-X ة ز ه ج ا ي ل ع ه ت ي ق ر ت و

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المقدمة

يصف هذا المستند إجراءات تثبيت "الدفاع عن تهديد الطاقة النارية (FTD)" وترقيته وتسجيله على أجهزة ASA55xx-X.

المتطلبات الأساسية

المتطلبات

لا توجد متطلبات خاصة لهذا المستند.

المكونات المستخدمة

تستند المعلومات الواردة في هذا المستند إلى إصدارات البرامج والمكونات المادية التالية:

• ASA5508-X

• ASA الطراز X-5512

• FireSIGHT Management Center (FMC) يشغل الإصدار 6.0.1 (بنية 1213)

تم إنشاء المعلومات الواردة في هذا المستند من الأجهزة الموجودة في بيئة معملية خاصة. بدأت جميع الأجهزة المستخدمة في هذا المستند بتكوين ممسوح (افتراضي). إذا كانت شبكتك قيد التشغيل، فتأكد من فهمك للتأثير المحتمل لأي أمر.

معلومات أساسية

يُعدّ FTD أحد صور البرامج المُوحّدة التي يمكن تثبيتها على هذه الأنظمة الأساسية:

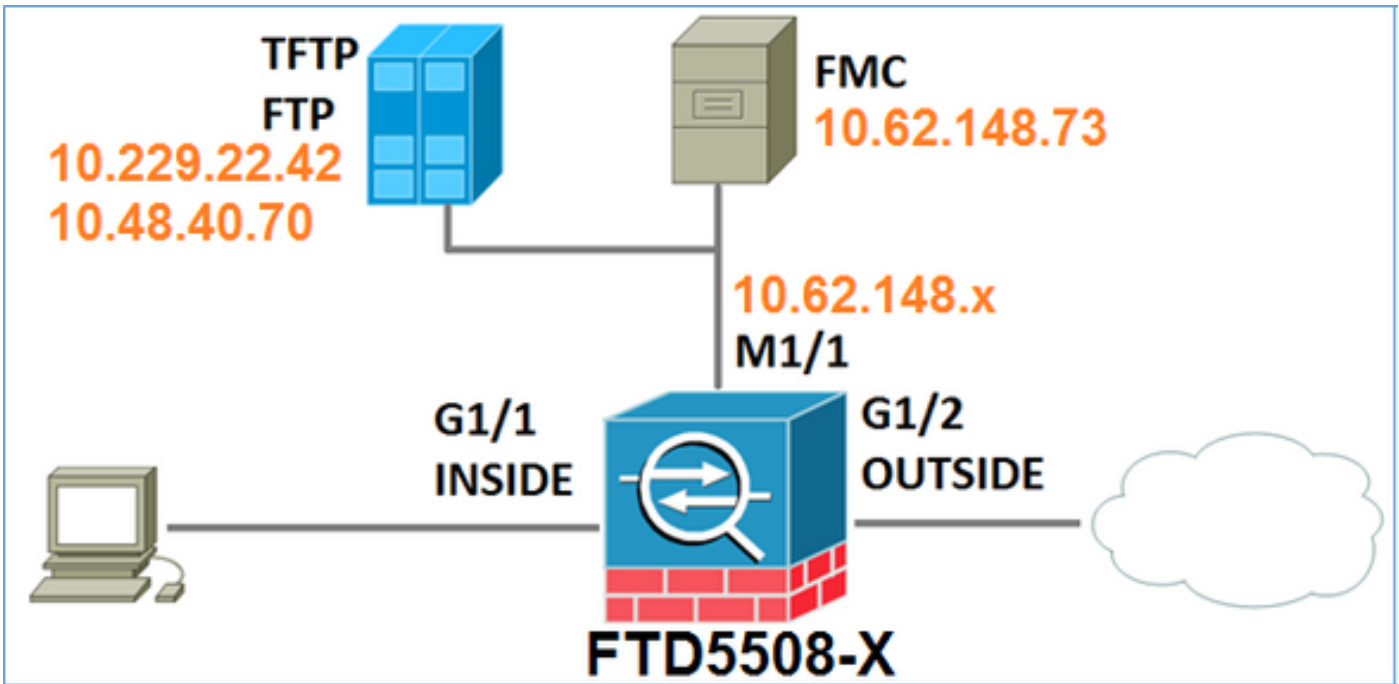
- ASA5506-X, ASA5506W-X, ASA5506H-X, ASA5508-X, ASA5516-X
- ASA5512-X, ASA5515-X, ASA5525-X, ASA5545-X, ASA5555-X
- FPR9300 و FPR4100

- (VMware (ESXi
- (Amazon Web Services (AWS
- لوحة المفاتيح والفيديو والماوس
- الوحدة النمطية لموجه ISR Router Module
- الهدف من هذا المستند هو توضيح ما يلي:

- تثبيت الإصدار 6.0.0 من FTD على النظام الأساسي ASA5508-X و ASA5512-X
- إجراء ترقية FTD من الإصدار 6.0.0 إلى 6.0.1
- تسجيل مركز إدارة (Firepower (FMC والتراخيص الأساسية

التكوين

الرسم التخطيطي للشبكة



تنزيل برنامج FTD

انتقل إلى الجيل التالي من جدران الحماية (ASA) > (NGFW) مع خدمات ASA 5508-X > FirePOWER مع خدمات FirePOWER وحدد برنامج الدفاع ضد تهديد FirePOWER:

Select a Software Type:

- ASA Common 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**

وعلى نحو مماثل لبرنامج ASA5512-X.

المهمة 1. التحقق من المتطلبات الأساسية

تحقق من المتطلبات الأساسية قبل تثبيت FTD.

الحل:

لتثبيت FTD، يمكنك استخدام صورتين:

1. صورة OS (AKA Boot Image) - بالنسبة للدفاع ضد تهديد FirePOWER على ASA5506-X و ASA5506H-X و ASA5506W-X و ASA5508-X و ASA5516-X هو ملف *.lfbff. بالنسبة للدفاع عن تهديد FirePOWER على ASA5512-X، ASA5515-X، ASA5525-X، ASA5545-X، ASA5555-X (Salyn) هو ملف *.cdisk.

2. صورة النظام - هذا ملف .pkg.

قبل متابعة تثبيت FTD، تحقق مما يلي:

- يجب أن يحتوي ذاكرة ASA المؤقتة على مساحة حرة لا تقل عن 3.1 جيجابايت (3 جيجابايت بايت + حجم صورة التمهيد)

- يتم تحميل صورة التمهيد إلى خادم TFTP

- يتم تحميل صورة النظام إلى خادم HTTP أو FTP

- OnASA5506/08/16 يكون ROMMON إصدارا 1.1.8 على الأقل

تحقق من المساحة الخالية:

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

تحقق من هذه الصور:

الوصف
صورة تمهيد الدفاع ضد
تهديد الحماية ضد
Firepower
5516/5508/5506
هذه هي صورة التمهيد
للتثبيت التنظيف على
5516/5508/5506
1.0.6 صورة تمهيد
الدفاع ضد تهديد
ASA ل Firepower

اسم الملف

ftd-boot-9.6.1.0.lfbff

ftd-boot-9.6.1.0.cdisk

5512/5515/5525/554
.5/5555
هذه هي صورة التمهيد
للتثبيت النظيف على
554/5525/5515/5512
5555/5
الدفاع ضد تهديد
Firepower لجميع أجهزة
ASA المدعومة:
551/5512/5508/5506
55/5545/5525/5516/5
.555
هذه صورة النظام للتثبيت
النظيف

FTD-6.0.0-1005.pkg

المهمة 2. ترقية ASA5508-X ROMMON

كما هو مذكور في المتطلبات الأساسية، يجب أن تكون أجهزة ASA5506-X و ASA5508-X و ASA5516-X على ROMMON v1.1.8. إذا لم تكن كذلك، قم بتثبيت ASA5500-FIRMWARE-1108.SPA (متوفر في صفحة تنزيل Cisco ASA).

متطلبات المهمة:

ترقية ASA5508 ROMMON من 1.1.1 إلى 1.1.8.

الحل:

يتم وصف الإجراء في [دليل ترقية ASA ROMMON](#).

الخطوة 1. التحقق من إصدار ROMMON الموجود:

```

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

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

```

الخطوة 2. تنزيل البرامج الثابتة ROMMON في ذاكرة ASA flash:

```

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: d824bdeeceel308fc64427367fa559e9
eefe8f182491652ee4c05e6e751f7a4f
5cdea28540cf60acde3ab9b65ff55a9f
4e0cfb84b9e2317a856580576612f4af

Embedded Hash SHA2: d824bdeeceel308fc64427367fa559e9
eefe8f182491652ee4c05e6e751f7a4f
5cdea28540cf60acde3ab9b65ff55a9f
4e0cfb84b9e2317a856580576612f4af

Digital signature successfully validated

...Writing file disk0:/asa5500-firmware-1108.SPA
!!!!!!!!!!
(bytes copied in 18.890 secs (513411 bytes/sec 9241408

:ASA ROMMON 3. ترقية صورة

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

Computed Hash SHA2: d824bdeeceel308fc64427367fa559e9
eefe8f182491652ee4c05e6e751f7a4f
5cdea28540cf60acde3ab9b65ff55a9f
4e0cfb84b9e2317a856580576612f4af

Embedded Hash SHA2: d824bdeeceel308fc64427367fa559e9
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

bytes copied in 0.260 secs 2804
[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
...

```

التحقق من الصحة:

يمكنك استخدام الأمر **show module** للتحقق من إصدار برنامج ROMMON:

```

FTD5508X> enable
:Password
FTD5508X# show module

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

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

```

المهمة 3. تثبيت صورة تمهيد FTD على ASA55xx-X

متطلبات المهمة:

قم بتثبيت صورة تمهيد FTD-boot-9.6.1.0.lfbff على ASA5508-X.

الحل:

هناك أكثر من طريقة للقيام بذلك. هنا أول واحد:

الطريقة 1. من موقع ROMMON

الخطوة 1. أعد تحميل ASA وأدخل وضع 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
      .....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... 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
.Boot interrupted
```

```
< rommon 1
```

الخطوة 2. تكوين إعدادات الشبكة الأساسية:

```
rommon 1 > ADDRESS=10.62.148.29
rommon 2 > SERVER=10.229.22.42
rommon 3 > GATEWAY=10.62.148.1
rommon 4 > IMAGE=ftd-boot-9.6.1.0.lfbff
rommon 5 > netmask 255.255.255.128
rommon 6 > ping 10.229.22.42
Sending 10, 32-byte ICMP Echoes to 10.229.22.42 timeout is 4 seconds
!!!!!!!!!!!!
(Success rate is 90 percent (9/10)
rommon 7 > sync
rommon 8 > tftpdnld
ADDRESS: 10.62.148.29
NETMASK: 255.255.255.128
GATEWAY: 10.62.148.1
```

SERVER: 10.229.22.42
IMAGE: ftd-boot-9.6.1.0.lfbff
MACADDR: 18:8b:9d:1e:ca:7c
VERBOSITY: Progress
RETRY: 40
PKTTIMEOUT: 7200
BLKSIZE: 1460
CHECKSUM: Yes
PORT: GbE/1
PHYMODE: Auto Detect

10.229.22.42!!
!!
!!
!!
!!
!!
!!
!!
!!
!!

.. !!!
!!
.. 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

في ASA5512/15/25/45/55 يكون الإجراء هو نفسه مع اختلاف فقط في اسم صورة التمهيد:

```
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
```

الطريقة 2. من وضع ASA

الخطوة 1. من وضع ASA EXEC (لا ROMMON) انسخ صورة تمهيد FTD إلى ذاكرة ASA flash:

```
ciscoasa# copy ftp://10.48.40.70/ANG/mzafeiro/ftd-boot-9.6.1.0.lfbff flash
الخطوة 2. احذف أي صور ASA من القرص:
```

```
*ciscoasa# delete flash:asa
محتويات Flash بعد أن تقوم بحذف صور ASA:
```

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

الخطوة 3. إعادة تحميل ASA. يتم تمهيده من صورة تمهيد 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
```

المهمة 4. تثبيت صورة نظام FTD على ASA55xx-X

تثبيت صورة نظام FTD على ASA5508-X.

الحل

```
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
```

:التحقق من الاتصال بخادم FTP:

```
firepower-boot> ping 10.229.22.42
.PING 10.229.22.42 (10.229.22.42) 56(84) bytes of data
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 64
```

C^

```
--- ping statistics 10.229.22.42 ---
packets transmitted, 3 received, 0% packet loss, time 2002ms 3
rtt min/avg/max/mdev = 1.302/1.360/1.458/0.075 ms
```

ثبيت حزمة النظام:

```
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/nsacd' [ 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_E0.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] pmmmon 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] pmmmon The Process
...Manager is not running
Mar 14 18:28:26 ciscoasa SF-IMS[11493]: [11493] init script:system [INFO] pmmmon 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

<

تلميح: يمكنك استخدام خيار عدم التأكيد لتثبيت الصورة. وفي هذه الحالة، لا يطلب منك أثناء التثبيت.

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

في FTD 6.1.x وأعلى، يتم مطالبتك بوضع الإدارة (محلي مقابل بعيد).

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

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

الوضع المحلي = قابل للتطبيق فقط على أجهزة ASA55xx-X. إنك تدير FTD من FirePOWER Device (Manager (FDM).

الوضع البعيد = إدارة FTD من FMC

التحقق

```
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
-----
<
```

تثبيت صورة النظام على ASA5512/15/25/45/55 هو نفسه المذكور أعلاه.

المهمة 5. تسجيل FTD في FMC

تسجيل FTD إلى خادم FMC باستخدام الإعدادات التالية:

10.62.148.29	مضيف
FTD5508	اسم العرض
cisco	مفتاح التسجيل
	بلا مجموعة
FTD5508	سياسة التحكم في
	الوصول
None	سياسة قاعدة سياسة
	التحكم بالوصول
حظر كل حركة المرور	الإجراء الافتراضي
	لسياسة التحكم بالوصول

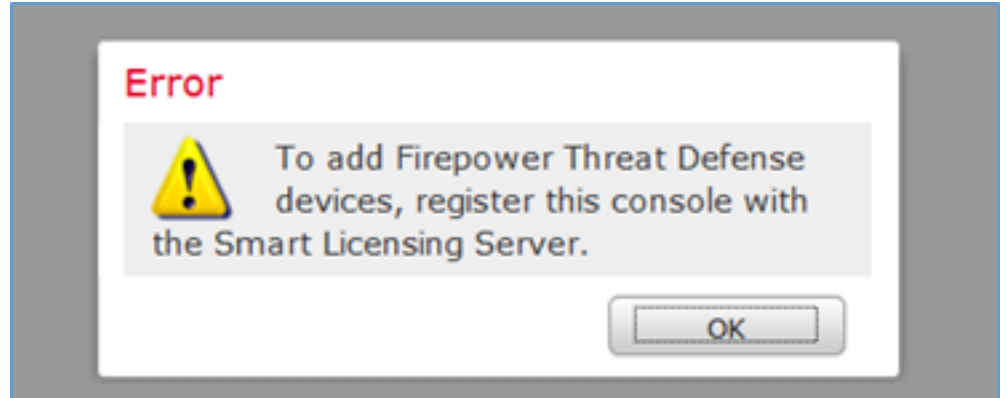
الحل

الخطوة 1. في FTD حدد خادم FMC:

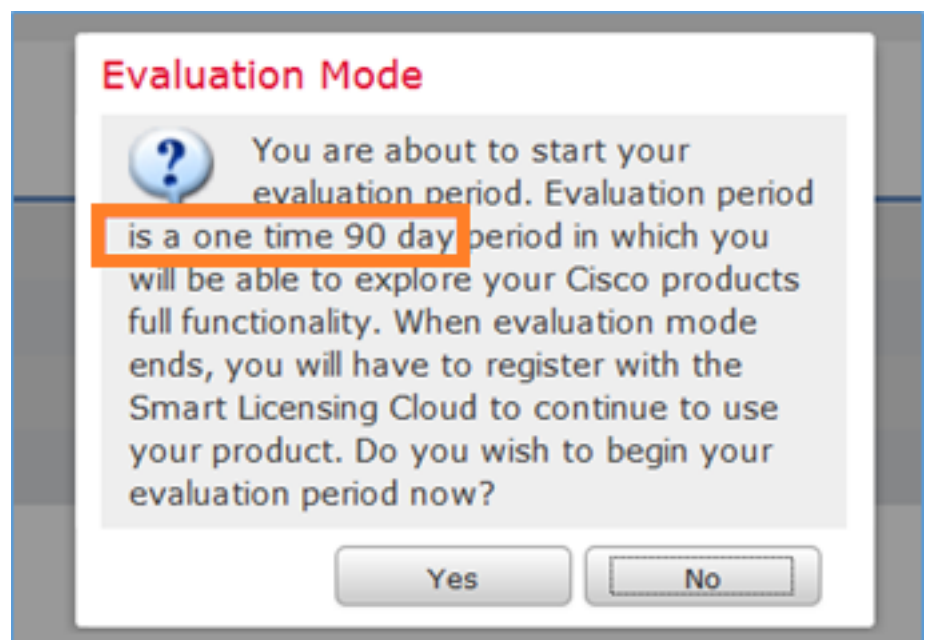
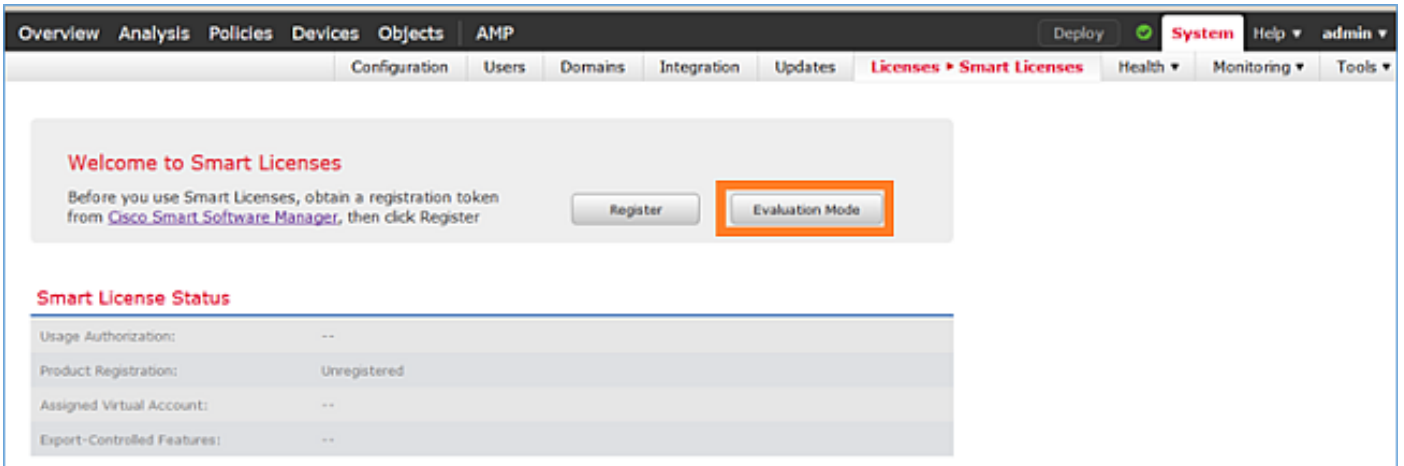
```
configure manager add 10.62.148.73 cisco <
.Manager successfully configured
.Please make note of reg_key as this will be required while adding Device in FMC
```

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

الخطوة 2. قبل إضافة FTD، يلزمك تسجيل FMC باستخدام خادم الترخيص الذكي. إذا حاولت إضافة جهاز FTD بدون وجود ترخيص ذكي، ستحصل على الخطأ التالي:



يمكنك إختيار وضع التقييم. وهذا يتيح لك إستخدام بروتوكول FTD لمدة 90 يوما دون وجود ميزات تتطلب تشفيرا قويا (على سبيل المثال، 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

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)				

الخطوة 3. في FMC، قم أولاً بإنشاء نهج التحكم في الوصول الذي سيتم استخدامه من قبل FTD. انتقل إلى السياسات < التحكم في الوصول وحدد سياسة جديدة:

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:

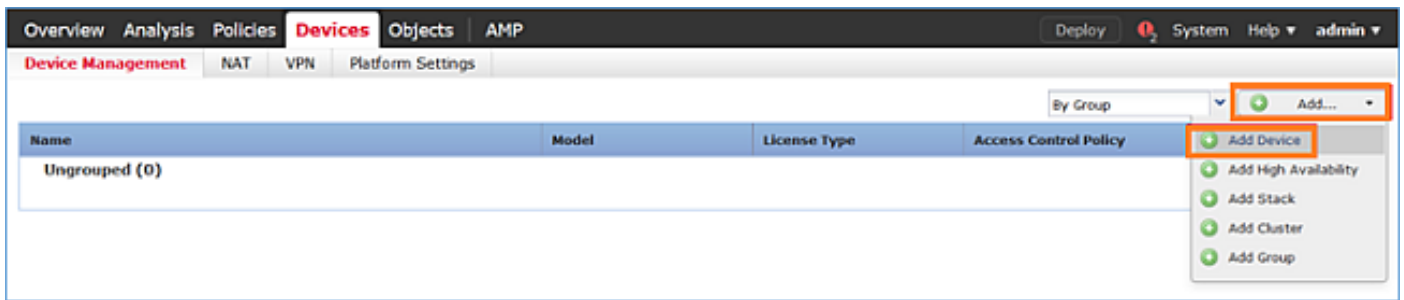
Description:

Select Base Policy:

Default Action: Block all traffic Intrusion Prevention Network Discovery

Targeted Devices

ثم أضف جهاز FTD:



Add Device

Host: 10.62.148.29

Display Name: FTD5508

Registration Key: cisco **1**

Group: None

Access Control Policy: FTD5508

Smart Licensing

Malware:

Threat:

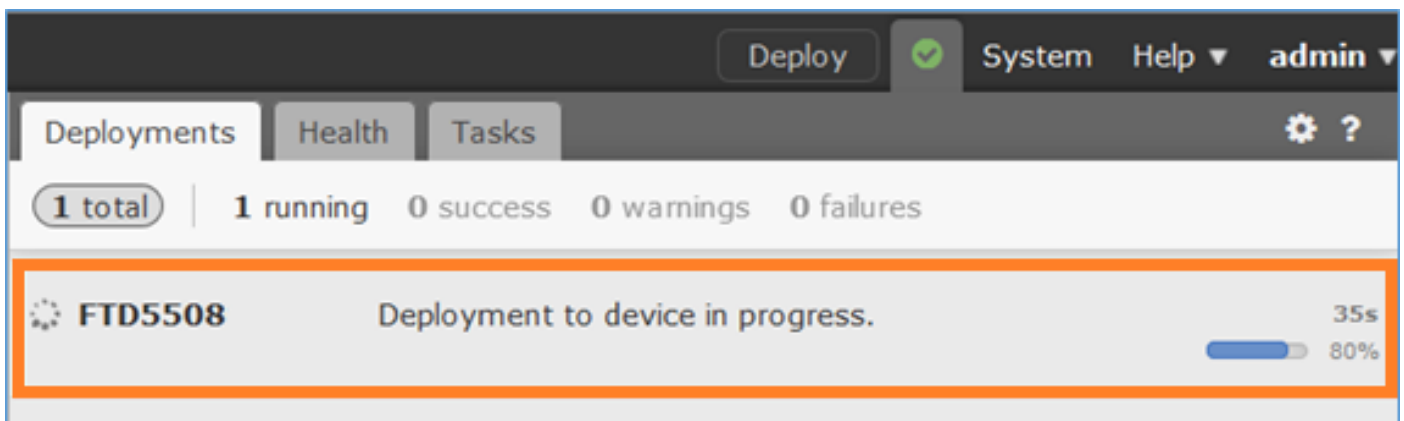
URL Filtering: **2**

Advanced

3 Register Cancel

On version 5.4 devices or earlier, the licensing options will need to be specified from [licensing page](#).

في نهاية إضافة FTD يتم نشر سياسة:



للتحقق من ما يحدث في الخلفية أثناء إضافة جهاز FTD، قم بتمكين **Pigtail** على كل من FMC و FTD. في FMC:

admin@fs4k:~\$ sudo pigtail

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

في FTD:

< pigtail

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

ملاحظة: إذا كانت حالة واجهة إدارة FTD معطلة، فتأكد من أن قيمة confreg هي 0x1.

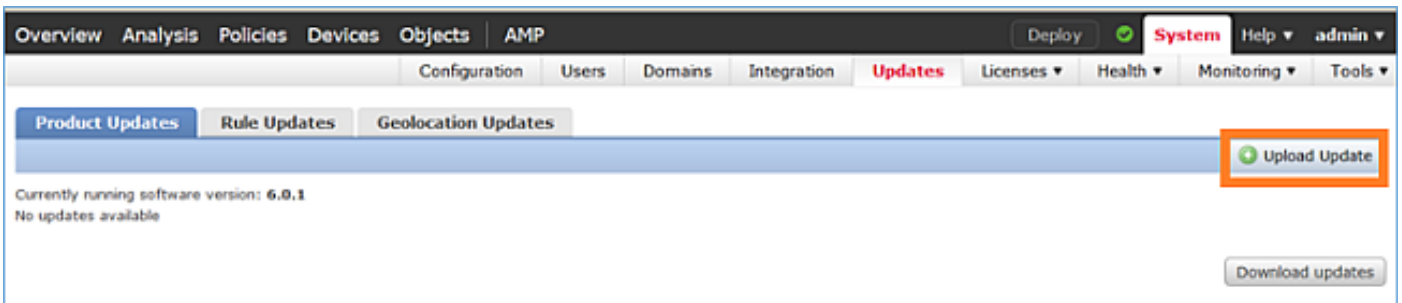
المهمة 6. ترقية FTD

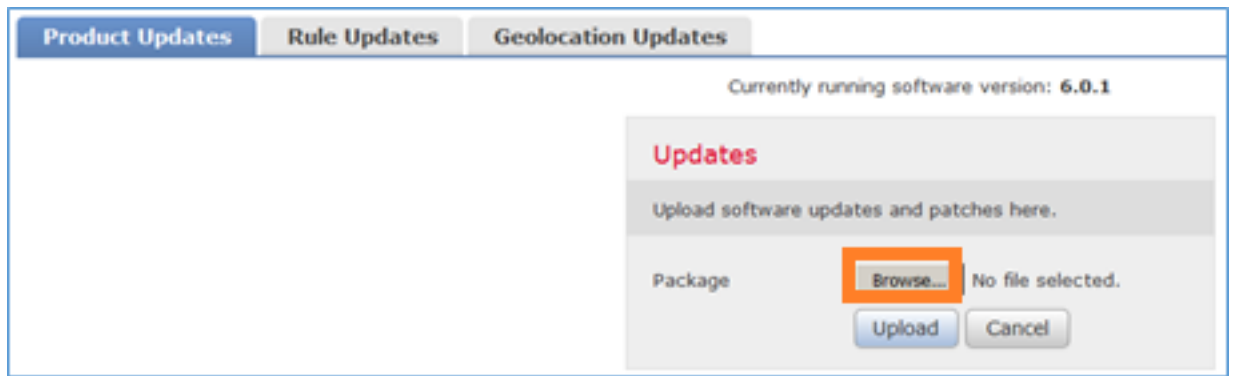
في هذه المهمة قم بترقية FTD من 6.0.0 إلى 6.0.1.

اسم الملف	الإصدار	صورة FTD أولية
FTD-6.0.0-1005.pkg	الإصدار (Build) 6.0.0 (1005)	صورة FTD الهدف
Cisco_FTD_UPGRADE-6.0.1-1213.sh	الإصدار (Build) 6.0.1 (1213)	

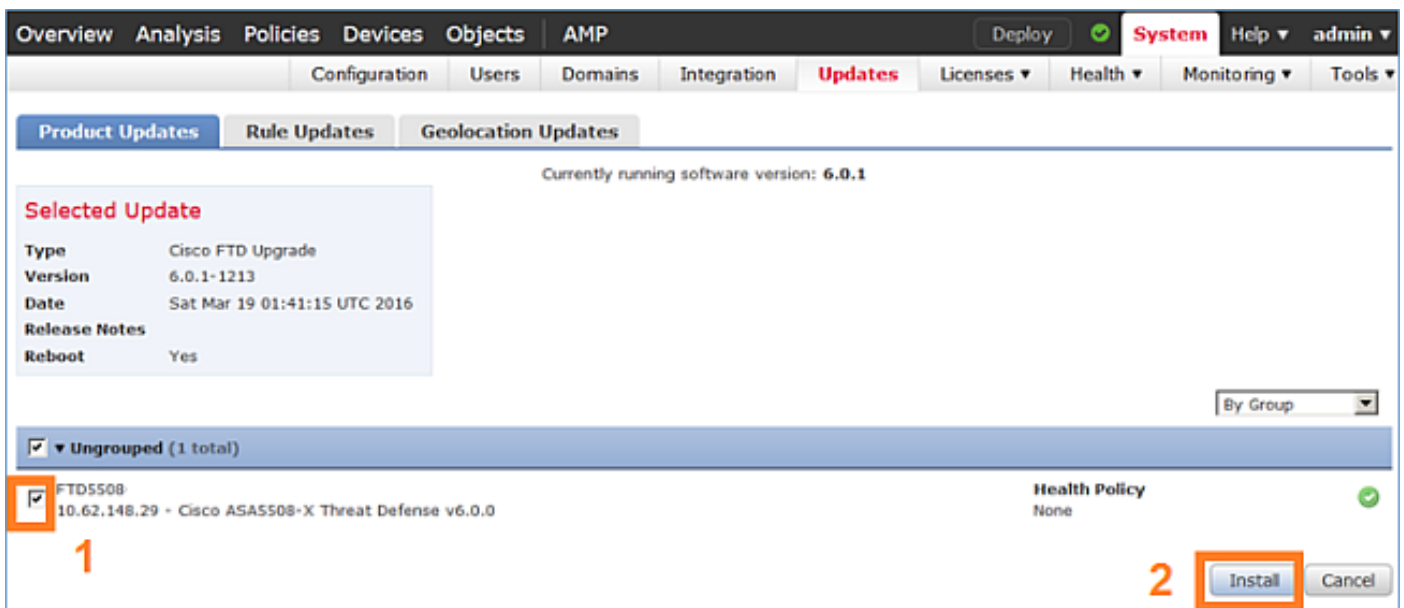
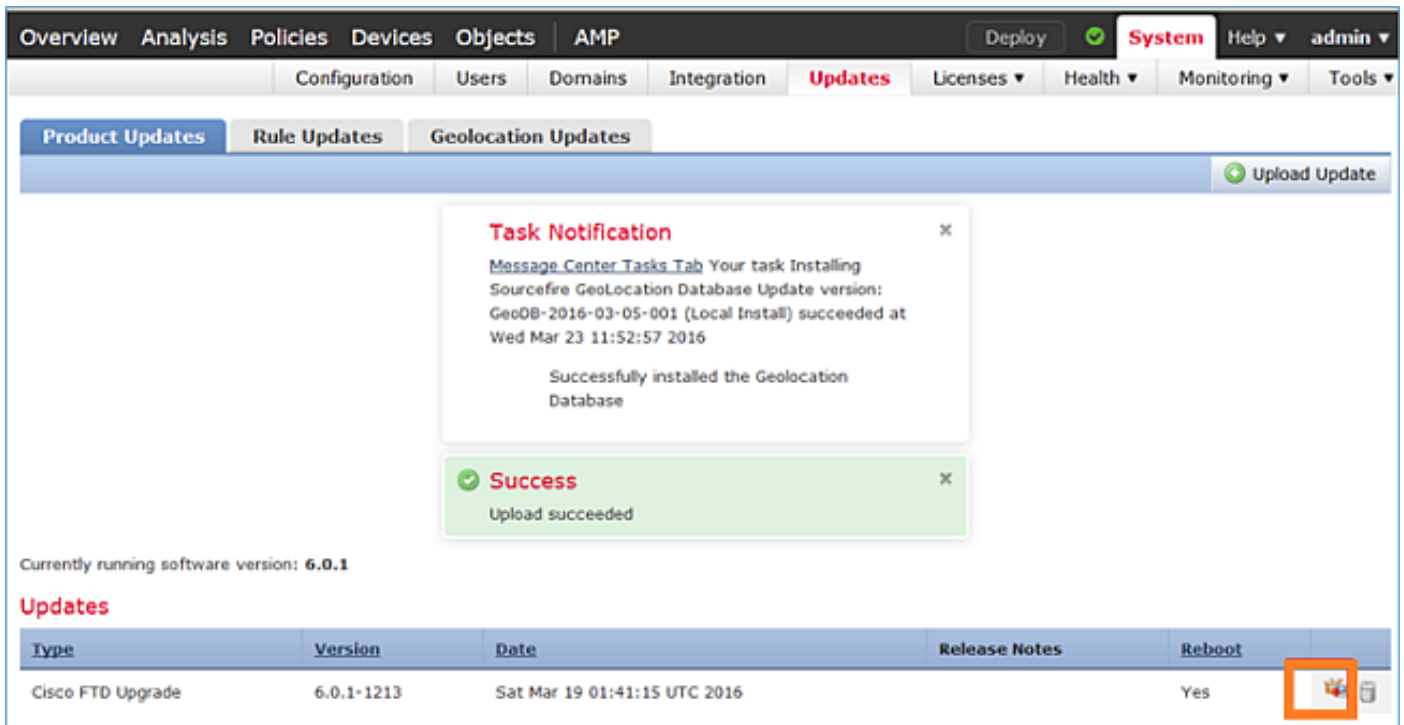
الحل

الخطوة 1. تحميل صورة FTD إلى FMC:

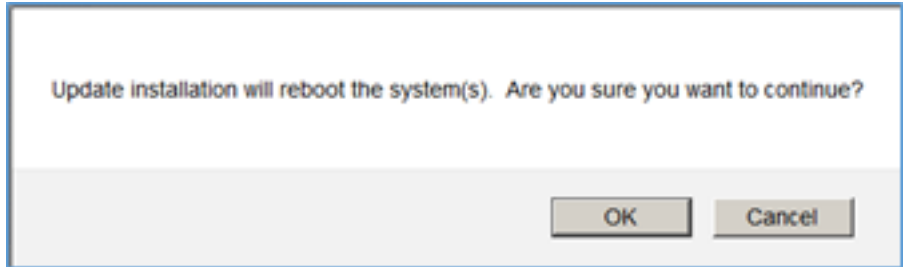




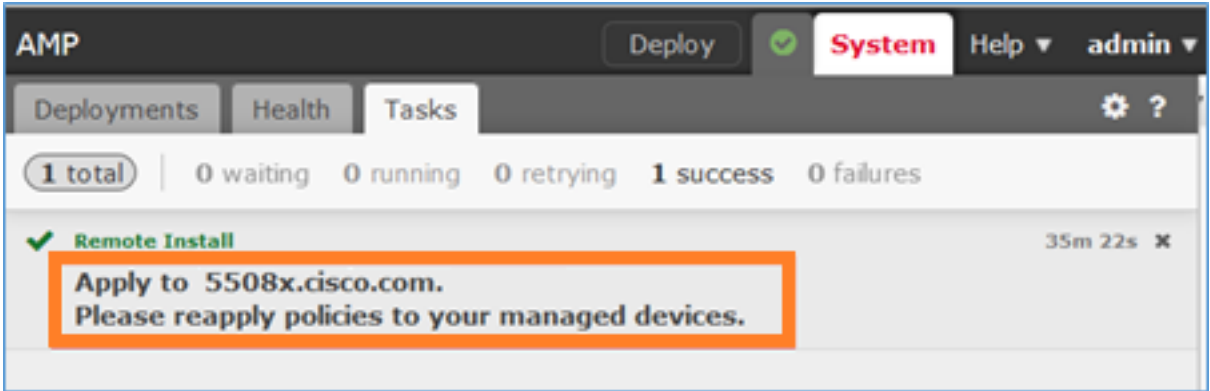
الخطوة 2. تثبيت صورة FTD:



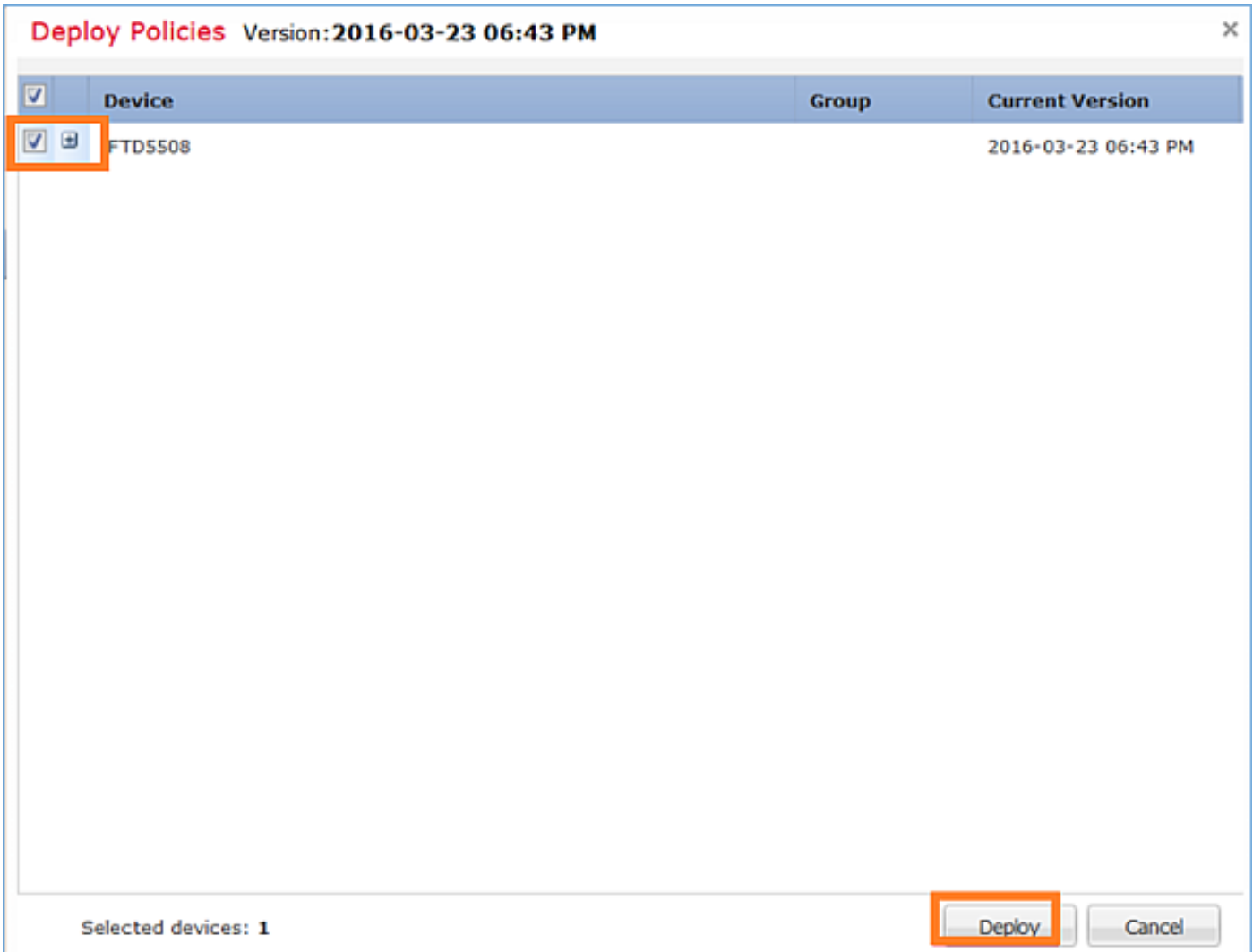
يتم عرض تحذير حول إعادة تحميل FTD:



استغرقت الترقية في هذه الحالة حوالي 35 دقيقة. وكما هو موضح أدناه، هناك حاجة إلى إعادة تطبيق السياسة:



نشر النهج:



التحقق

بعد ترقية 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
-----
```

المهمة 7. الاتصال والفصل من وضع واجهة سطر الأوامر (CLI) لمحرك LINA

أدخل إلى وضع واجهة سطر الأوامر (CLI) ل LINA، ثم افصل عنه.

الحل

من وضع FTD، اكتب الأمر التالي:

```
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
```

كما ورد ذكره في الرسالة أعلاه، لقطع الاتصال (الانفصال) عن نوع وحدة تحكم CTRL + a في برنامج FTD Lina ثم الضغط على D:

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

المهمة 8. إعادة تكوين تثبيت FTD موجود

المتطلبات

إعادة تكوين صورة FTD الموجودة وتثبيت الإصدار 330-6.1.0

الحل

تفترض هذه المهمة وجود جهاز FTD يشغل الرمز x.6.0.1 ولأية أسباب كانت هناك حاجة لإعادة تصوره (على سبيل المثال، تلف قاعدة البيانات غير القابل للاسترداد، عيب فادح لا يسمح بترقية البرامج وما إلى ذلك).

ملخص الخطوات

1. التحقق من التوافق.
2. إلغاء تسجيل FTD من FMC.
3. قم بإعادة تحميل جهاز FTD وأدخل واجهة سطر الأوامر (BootCLI).
4. قم بتشغيل معالج الإعداد.
5. قم بتثبيت صورة نظام FTD.
6. تسجيل FTD في FMC.

الخطوات التفصيلية

الخطوة 1. تحقق من ملاحظات إصدار FirePOWER وتأكد من أن صورة FTD التي تريد استخدامها متوافقة مع FMC. إذا لم تقم بترقية FMC أولاً.

الخطوة 2. إلغاء تسجيل (حذف) FTD من FMC. هذه الخطوة مطلوبة بعد أن يقوم FTD بإعادة تكوين UUID الخاص به ولا يمكن تسجيله مرة أخرى، ولكن يجب إضافته من البداية.

الخطوة 3. قم بإعادة تحميل جهاز FTD وأدخل واجهة سطر الأوامر (BootCLI). نظرا لوجود صورة FTD موجودة بالفعل، يمكن تخطي تثبيت صورة بدء تشغيل FTD:

```
reboot <
?This command will reboot the system. Continue
Please enter 'YES' or 'NO': YES

Broadcast message from Cisco ASA5506-X Threat Defense:
[ Shutting down sfifd... [ OK
Clearing static routes
[ Unconfiguring default route [ OK
[ Unconfiguring address on br1 [ OK
[ Unconfiguring IPv6 [ OK
[ Downing interface [ OK
[ Stopping nsd... [ OK
[ Stopping system log daemon... [ OK
... Stopping Threat Defense
cp: cannot stat '/etc/ssh': No file or directory
.Stopping system message bus: dbus
[ rmdir: failed to remove directory '/etc': Directory not empty [ OK
... Un-mounting disk partitions
...
.Device root is still in use
mdadm: Cannot get exclusive access to /dev/md0:Perhaps a running process, mounted filesystem or
```

?active volume group
(Stopping OpenBSD Secure Shell server: sshdstopped /usr/sbin/sshd (pid 4209
(Stopping Advanced Configuration and Power Interface daemon: stopped /usr/sbin/acpid (pid 4213
acpid: exiting

.acpid
.Stopping system message bus: dbus
Deconfiguring network interfaces... ifdown: interface br1 not configured
.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 ROM0
Last reset cause: PowerCycleRequest
DIMM Slot 0 : Present

Platform ASA5506 with 4096 Mbytes of main memory
MAC Address: 84:3d:c6:1a:cf:39

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

.Located '.boot_string' @ cluster 260275

":Attempt autoboot: "boot disk0
.Located 'os.img' @ cluster 235457

#####

.LFBFF signature verified
INIT: version 2.88 booting
Starting udev
.Configuring network interfaces... done
Populating dev cache
.Detected PID ASA5506
.Found device serial number JAD2034008E
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: 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

```

الخطوة 4. قم بتشغيل معالج الإعداد وتعين معلمات الشبكة الأساسية:

```

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
```

الخطوة 5.التحقق من الاتصال بالخادم (FTP و HTTP وما إلى ذلك) الذي يحتوي على صورة نظام FTD وبدء التثبيت:

```
firepower-boot>ping 10.48.40.70
.PING 10.48.40.70 (10.48.40.70) 56(84) bytes of data
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 64
--- ping statistics 10.48.40.70 ---
packets transmitted, 3 received, 0% packet loss, time 2000ms 3
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

الخطوة 6. تسجيل FTD في 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
```

على FMC، انتقل إلى الأجهزة < إدارة الأجهزة لإضافة جهاز FTD.

بعد إضافة برنامج الإرسال فائق السرعة (FTD) إلى وحدة التحكم في إدارة الهيكل (FMC)، يلزمك ما يلي:

- أعد تكوين إعدادات الجهاز مثل الواجهات والتوجيه
- قم بإعادة تكوين السياسات مثل VPN و QoS

- أعدد تطبيق السياسات والإعدادات المطبقة سابقا مثل إعدادات سياسة التحكم بالوصول، NAT، والنظام الأساسي

معلومات ذات صلة

- [أدلة المميزات](#)
- [إعادة تكوين جهاز الدفاع عن تهديد Cisco ASA أو FirePOWER](#)
- [الدعم التقني والمستندات - Cisco Systems](#)

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ىل إأمئاد ةوچرلاب يصوت وتامچرتل هذه ةقدنع اهتيلوئسم Cisco
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