

# Instalando y actualizando la defensa de la amenaza de la potencia de fuego en los dispositivos ASA 55xx-X

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## Introducción

Este documento describe la instalación, la actualización y los procedimientos de inscripción de la defensa de la amenaza de la potencia de fuego (FTD) en los dispositivos ASA55xx-X.

## Prerrequisitos

### Requisitos

No hay requisitos específicos para este documento.

### Componentes Utilizados

- ASA5508-X
- ASA5512-X
- Centro de administración de FireSIGHT (FMC) que ejecuta 6.0.1 (estructura 1213)

La información que contiene este documento se creó a partir de los dispositivos en un ambiente de laboratorio específico. Todos los dispositivos que se utilizan en este documento se pusieron en funcionamiento con una configuración verificada (predeterminada). Si su red está viva, asegúrese

de que usted entienda el impacto potencial del comando any.

## Antecedentes

La defensa de la amenaza de la potencia de fuego (FTD) es una imagen del software unificada que se puede instalar en las Plataformas siguientes:

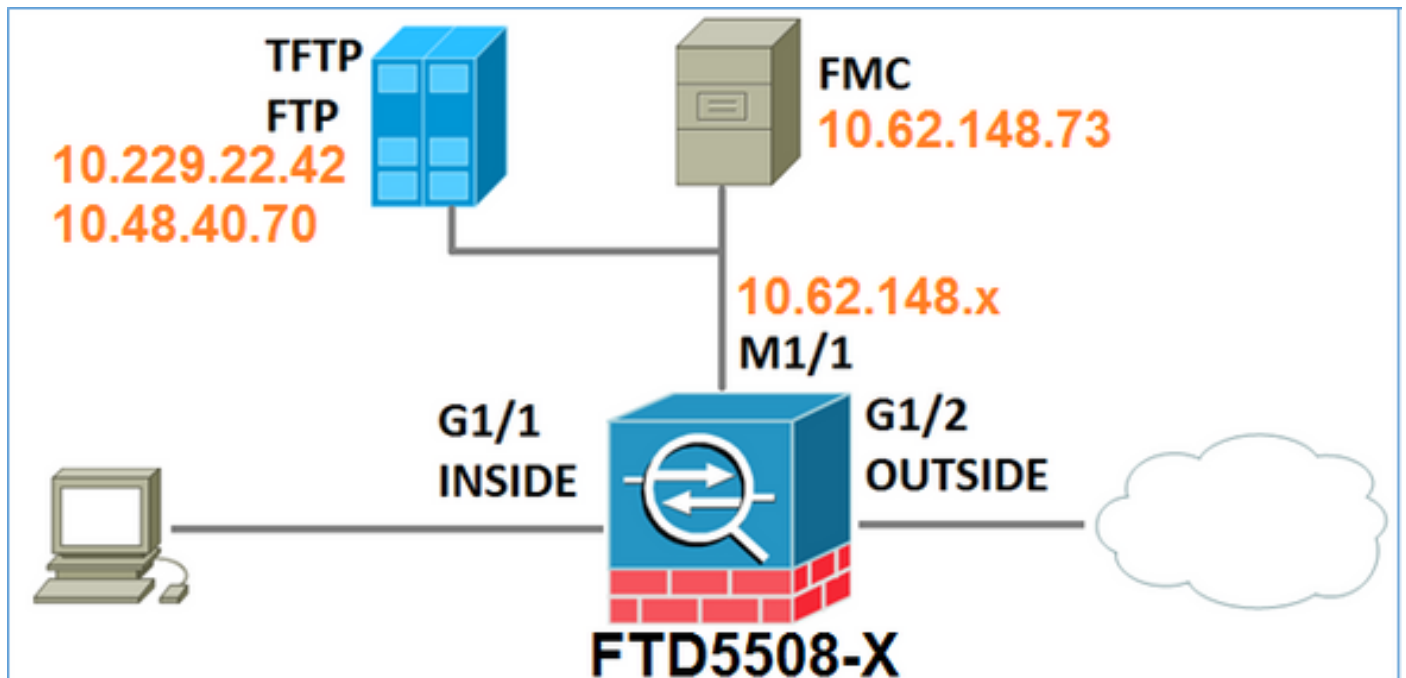
- ASA5506-X, ASA5506W-X, ASA5506H-X, ASA5508-X, ASA5516-X
- ASA5512-X, ASA5515-X, ASA5525-X, ASA5545-X, ASA5555-X
- FPR4100, FPR9300
- VMware (ESXi)
- Servicios web del Amazonas (AWS)
- KVM
- Módulo del router ISR

La meta de este documento es demostrar:

- La instalación de la versión 6.0.0 FTD en la plataforma ASA5508-X y ASA5512-X
- El procedimiento de actualización de FTD de la versión 6.0.0 a 6.0.1
- Registro del centro de administración de la potencia de fuego (FMC) y autorización básica

## Configurar

### Diagrama de la red



### Descarga del software FTD

Navegue a los Firewall de la última generación (NGFW) > ASA con la potencia de fuego mantiene > ASA 5508-X con los servicios de la potencia de fuego y el software selecto de la defensa de la amenaza de la potencia de fuego:

**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

Semejantemente para el software ASA5512-X.

## La tarea 1. verifica los requisitos previos

Verifique los requisitos previos antes de la instalación FTD.

### Solución

Para la instalación FTD usted utiliza 2 imágenes:

1. Imagen del OS (AKA imagen del arranque de sistema) - Para la defensa de la amenaza de la potencia de fuego en ASA5506-X, ASA5506H-X, ASA5506W-X, ASA5508-X, ASA5516-X es un archivo \*.lfbff. Para la defensa de la amenaza de la potencia de fuego en Saleen (ASA5512-X, ASA5515-X, ASA5525-X, ASA5545-X, ASA5555-X) es un archivo \*.cdisk.
2. Imagen del sistema – Esto es un archivo .package.

Antes de proceder con la instalación FTD verifique el siguiente:

- El flash ASA debe tener por lo menos espacio libre 3.1 GBytes (3GBytes + tamaño de la imagen del arranque de sistema)
- La imagen del arranque de sistema está cargada a un servidor TFTP
- La imagen del sistema está cargada a un HTTP o a un servidor FTP
- OnASA5506/08/16 el ROMMON es por lo menos la versión 1.1.8

### Verificar el espacio libre:

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

### Verificar las imágenes:

Nombre del archivo	Descripción
ftd-boot-9.6.1.0.lfbff	imagen del arranque de sistema de la defensa de la amenaza de la potencia de fuego v6.0.1 para 5506/5508/5516. Ésta es la imagen del arranque de sistema para la instalación limpia en 5506/5508/5516
ftd-boot-9.6.1.0.cdisk	imagen del arranque de sistema de la defensa de la amenaza de la potencia de fuego v6.0.1 para ASA 5512/5515/5525/5545/5555. Ésta es la imagen del arranque de sistema para la instalación limpia en 5512/5515/5525/5545/5555
ftd-6.0.0-1005.pkg	defensa de la amenaza de la potencia de fuego v6.0.0

para todos los ASA soportados:  
5506/5508/5512/5515/5516/5525/5545/5555.  
Ésta es la imagen del sistema para la instalación limpia

## Actualización de la tarea 2. el ASA5508-X ROMMON

Mientras que se menciona en los requisitos previos, los dispositivos ASA5506-X, ASA5508-X y ASA5516-X deben estar en ROMMON v1.1.8. Si no entonces instale asa5500-firmware-1108.SPA (disponible en la página de la descarga de Cisco ASA).

### Encargue el requisito

Actualice ASA5508 ROMMON a partir del 1.1.1 a 1.1.8.

### Solución

El procedimiento se describe en la [guía de la actualización de rommon ASA](#).

Paso 1. Verifique la versión ROMmon existente:

```
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
```

Paso 2. Download el firmware ROMMON en el flash 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: d824bdeecee1308fc64427367fa559e9
              eefe8f182491652ee4c05e6e751f7a4f
              5cdea28540cf60acde3ab9b65ff55a9f
              4e0cfb84b9e2317a856580576612f4af
```

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

Digital signature successfully validated

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

```
!!!!!!!!!!!!
```

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

### Paso 3. Actualice la imagen ROMMON ASA:

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

```
Computed Hash   SHA2: d824bdeeece1308fc64427367fa559e9
                eefe8f182491652ee4c05e6e751f7a4f
                5cdea28540cf60acde3ab9b65ff55a9f
                4e0cfb84b9e2317a856580576612f4af
```

```
Embedded Hash  SHA2: d824bdeeece1308fc64427367fa559e9
                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
```

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.  
/cscocfg  
"." is missing. Can't fix this yet.  
/cscocfg  
".." is missing. Can't fix this yet.  
Starting verification pass.  
/cscocfg  
"." is missing. Can't fix this yet.  
/cscocfg  
".." 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.
```

...

## Verificación

Usted puede utilizar el comando " show module " de verificar la versión del software ROMMON:

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

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

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

## La tarea 3. instala la imagen del arranque de sistema FTD en ASA55xx-X

### Requisito de la tarea

Instale la imagen del arranque de sistema ftd-boot-9.6.1.0.lfbff FTD en ASA5508-X.

### Solución

Hay más los métodos de uno para hacer esto. Aquí está primer:

#### Método 1. Del ROMMON.

Paso 1. Recargue el ASA y ingrese al modo 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...
```





```
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>

En ASA5512/15/25/45/55 el procedimiento es lo mismo con solamente la diferencia el nombre de la imagen del arranque de sistema:

```
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
```

## **Método 2. Del modo ASA.**

Paso 1. Del modo EXEC ASA (ningún ROMMON) copie la imagen del arranque de sistema FTD en el flash ASA:

```
ciscoasa# copy ftp://10.48.40.70/ANG/mzafeiro/ftd-boot-9.6.1.0.1fbff flash
```

Paso 2. Borre cualquier imagen ASA del disco:

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

Los contenidos Flash después de borrar las imágenes 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 <--

```

Paso 3.Reload el ASA. Inicia de la imagen del arranque de sistema 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>

```

## La tarea 4. instala la imagen del sistema FTD en ASA55xx-X

Instale la imagen del sistema FTD en ASA5508-X.

### Solución

```

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>

**Verifique la Conectividad con el servidor 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

**Instale el paquete de sistema:**

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@firepow: Stopping OpenBSD Secure Shell server: sshd stopped
/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... y
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](mailto: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 <ENTER> to display the EULA:**

**... 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.

>

**Consejo:** Usted puede utilizar la opción del **noconfirm** para instalar la imagen. En ese caso usted no consigue indicado durante la instalación.

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

En FTD 6.1.x y sobre usted consiga indicado para el modo de administración (local contra el telecontrol).

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

**Manage the device locally? (yes/no) [yes]: no**

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

Modo local = aplicable solamente en los dispositivos ASA55xx-X. Usted maneja el FTD del administrador de dispositivo de la potencia de fuego (FDM).

Modo remoto = usted maneja el FTD de FMC

## Verificación

```
> 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  
-----
```

>

La instalación de la imagen del sistema en ASA5512/15/25/45/55 es lo mismo que arriba.

## Registro de la tarea 5. el FTD a FMC

Registre FTD al servidor FMC usando las configuraciones siguientes:

Host	10.62.148.29
Mostrar nombre:	FTD5508
Clave del registro	Cisco
Grupo ningunos	

Directiva del control de acceso

FTD5508

Directiva de la base de la directiva del control de acceso Ninguno

Acción predeterminada de la directiva del control de acceso Bloquee todo el tráfico

## Solución

El paso 1. On FTD especifica el servidor 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 :
```

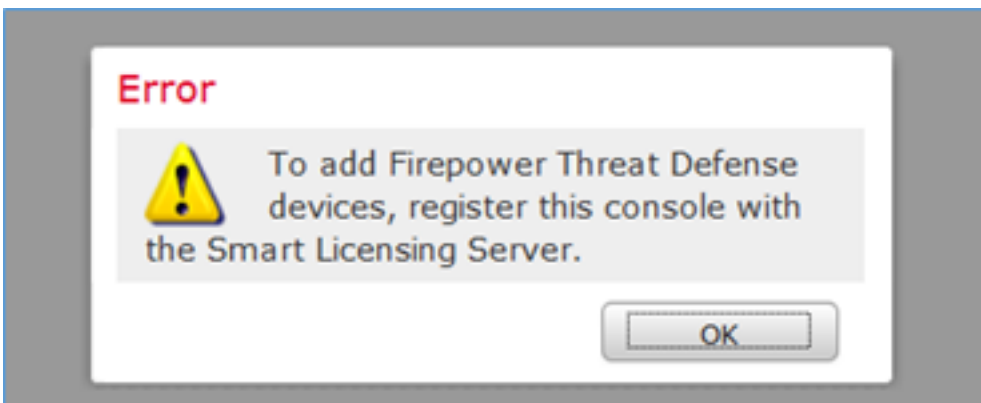
```
Type : Manager
```

```
Host : 10.62.148.73
```

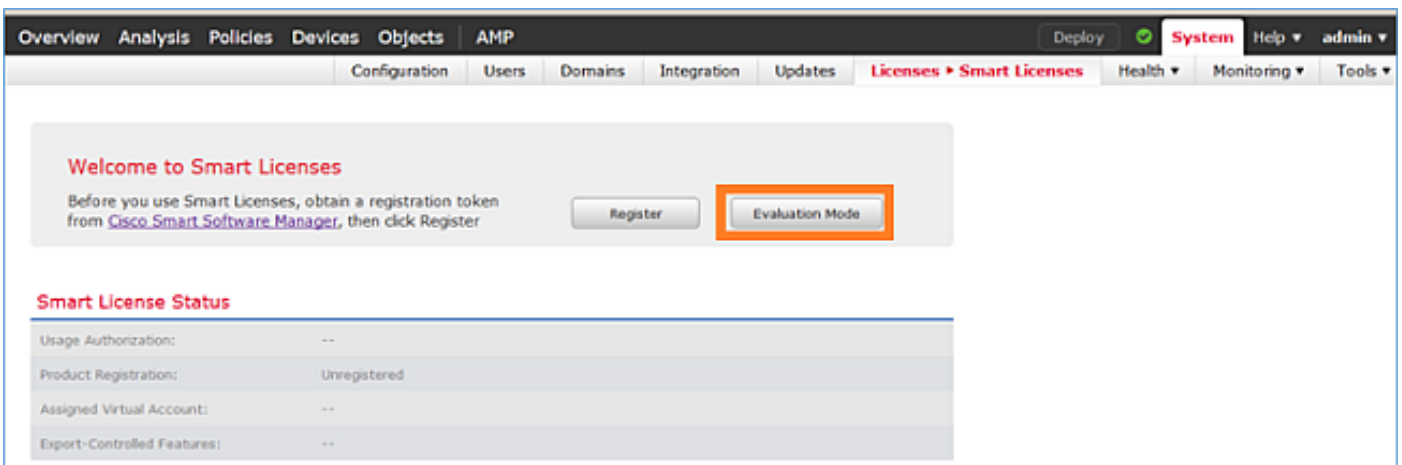
```
Registration : Pending
```

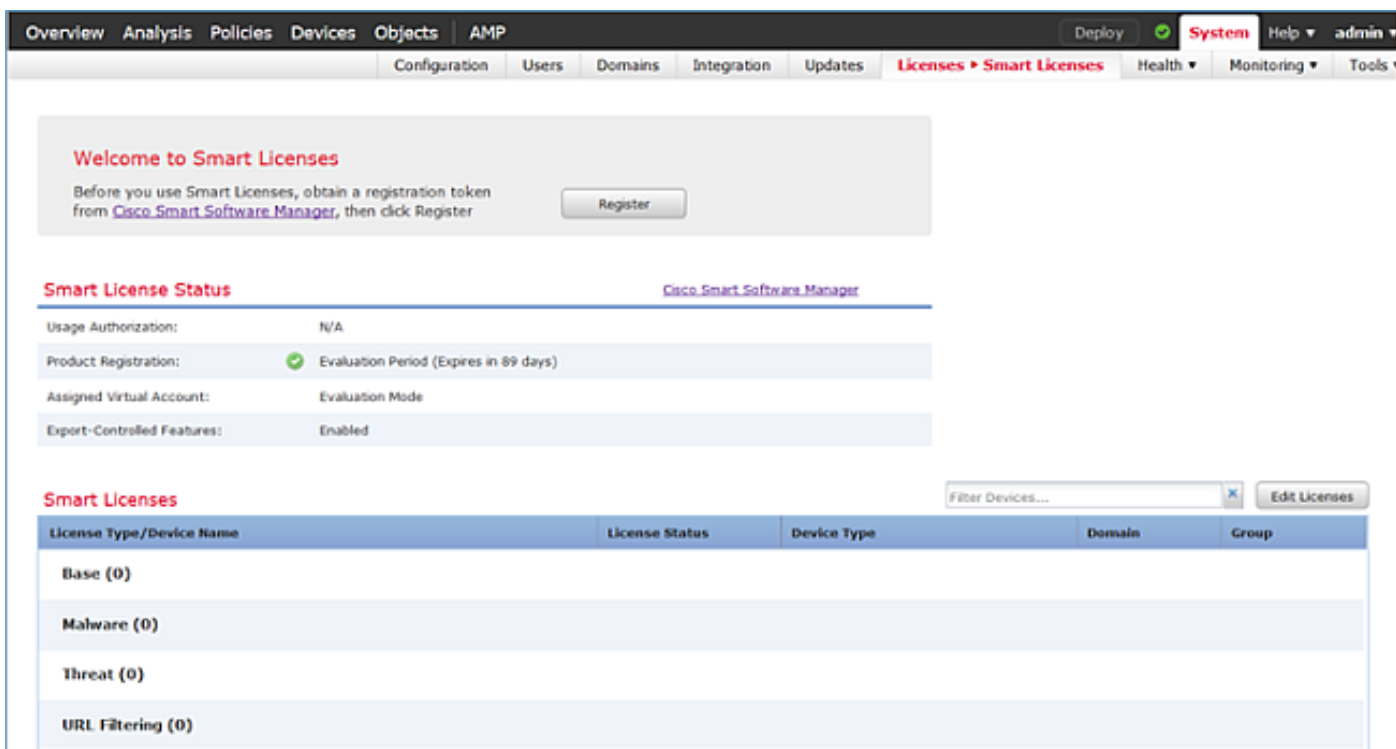
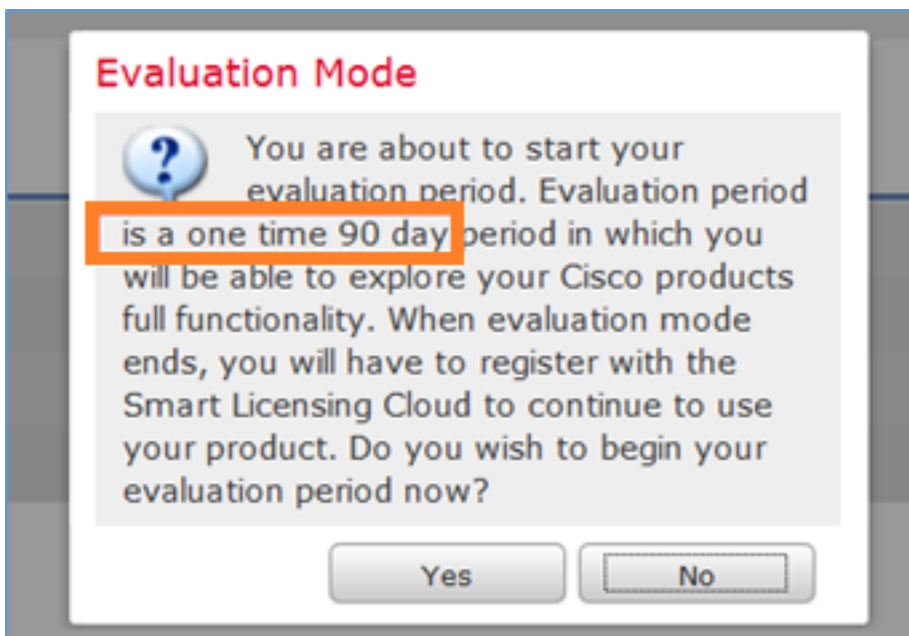
```
>
```

Paso 2. Before que agrega el FTD que usted necesita registrar el FMC con el servidor elegante de la autorización. Si usted intenta agregar un dispositivo FTD sin tener una licencia elegante usted consigue el error siguiente:

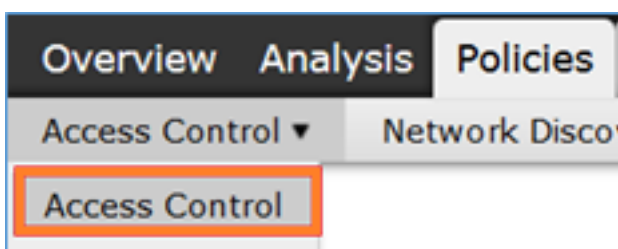


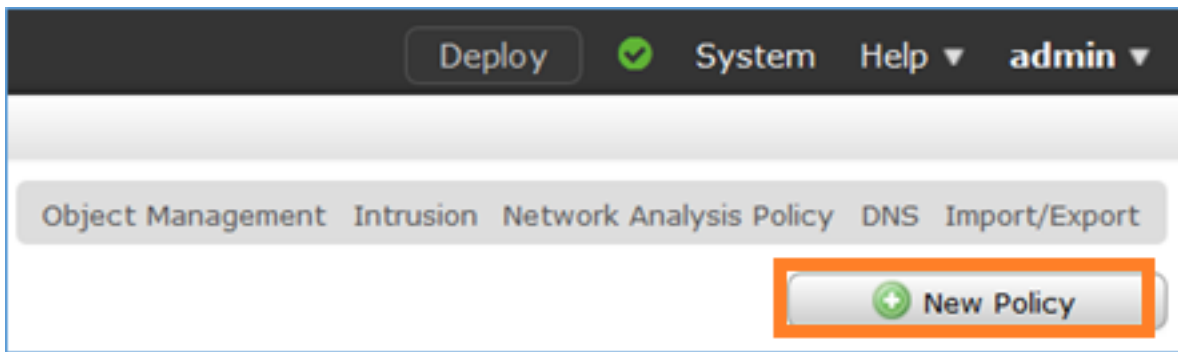
Usted puede elegir al modo de evaluación. Esto permite que usted utilice FTD por 90 días sin las características que requieren la encriptación fuerte (e.g. VPN).





Paso 3. En FMC primero cree la directiva del control de acceso que será utilizada por FTD. Navegue a las **directivas > al control de acceso** y seleccione la **nueva directiva**:





### New Policy

Name:

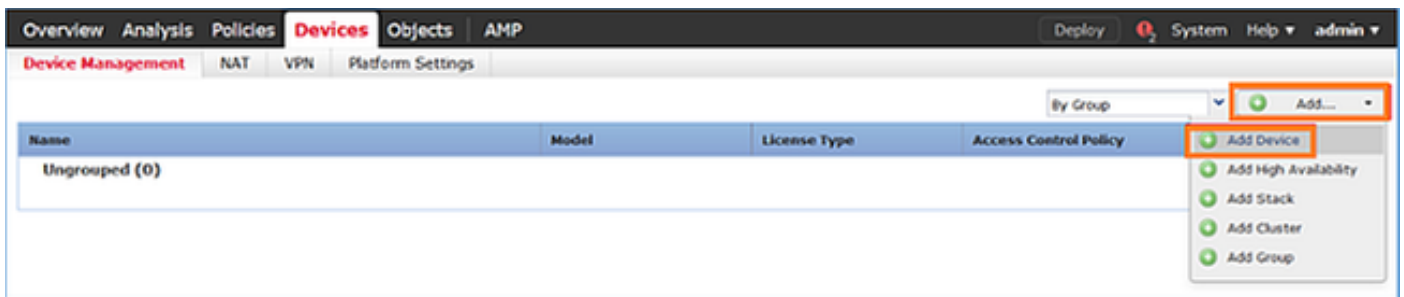
Description:

Select Base Policy:

Default Action:  Block all traffic  Intrusion Prevention  Network Discovery

Targeted Devices

Entonces agregue el dispositivo FTD:



**Add Device** ? X

Host: 10.62.148.29

Display Name: FTD5508

Registration Key: cisco

Group: None

Access Control Policy: FTD5508

**Smart Licensing**

Malware:

Threat:

URL Filtering:

**Advanced**

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

Register Cancel

En el extremo de la adición FTD se despliega una directiva:

Deploy System Help admin

Deployments Health Tasks

1 total | 1 running 0 success 0 warnings 0 failures

FTD5508 Deployment to device in progress. 35s 80%

Para marcar qué está sucediendo en el fondo mientras que agrega la **coleta del permiso** del dispositivo FTD en FMC y FTD.

En FMC:

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

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

En FTD:

> **piptail**

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

Nota: Si el estatus de la interfaz FTD Management está abajo asegúrese de que el valor del confreg sea 0x1.

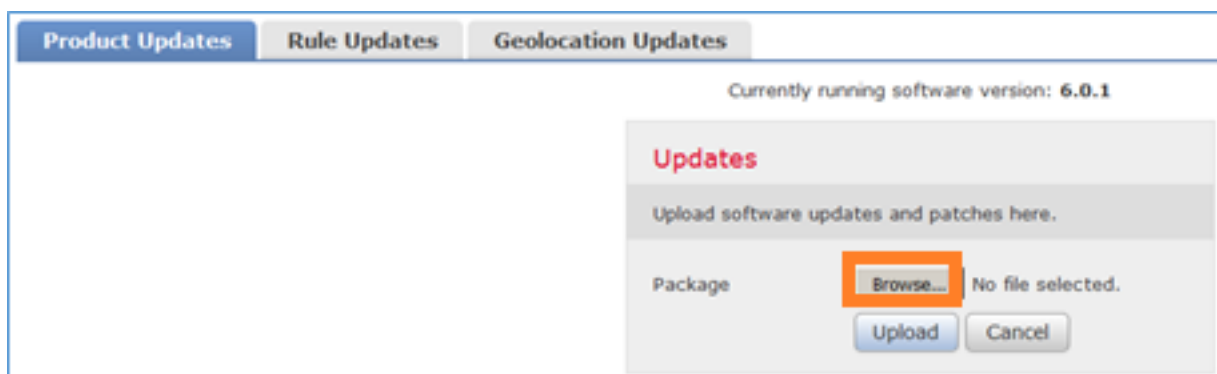
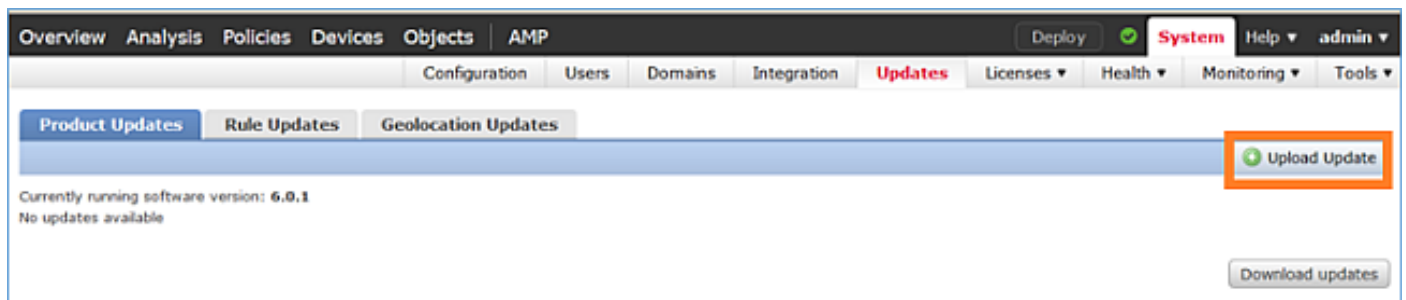
## Actualización de la tarea 6. el FTD

En esta actualización FTD de la tarea a partir del 6.0.0 a 6.0.1.

	<b>Versión</b>	<b>Nombre del archivo</b>
<b>Imagen inicial FTD</b>	Versión 6.0.0 (estructura 1005)	ftd-6.0.0-1005.pkg
<b>Imagen de la blanco FTD</b>	Versión 6.0.1 (estructura 1213)	Cisco_FTD_Upgrade-6.0.1-1213.sh

## Solución

Paso 1. Cargue la imagen FTD en FMC:



Paso 2. Instale la imagen FTD:

Overview Analysis Policies Devices Objects AMP Deploy System Help admin

Configuration Users Domains Integration **Updates** Licenses Health Monitoring Tools

Product Updates Rule Updates Geolocation Updates Upload Update

**Task Notification** ×

Message\_Center\_Tasks\_Tab Your task Installing Sourcefire Geolocation Database Update version: Geo08-2016-03-05-001 (Local Install) succeeded at Wed Mar 23 11:52:57 2016

Successfully installed the Geolocation Database

**Success** ×

Upload succeeded

Currently running software version: **6.0.1**

**Updates**

Type	Version	Date	Release Notes	Reboot	
Cisco FTD Upgrade	6.0.1-1213	Sat Mar 19 01:41:15 UTC 2016		Yes	<span>🔍</span> <span>🗑️</span>

Overview Analysis Policies Devices Objects AMP Deploy System Help admin

Configuration Users Domains Integration **Updates** Licenses Health Monitoring Tools

Product Updates Rule Updates Geolocation Updates

Currently running software version: **6.0.1**

**Selected Update**

Type: Cisco FTD Upgrade  
 Version: 6.0.1-1213  
 Date: Sat Mar 19 01:41:15 UTC 2016  
 Release Notes:  
 Reboot: Yes

By Group ▾

**Ungrouped (1 total)**

<input checked="" type="checkbox"/>	FTD5508 10.62.148.29 - Cisco ASA5508-X Threat Defense v6.0.0	Health Policy None	<span>🟢</span>
-------------------------------------	---	-----------------------	----------------

**1** **2** Install Cancel

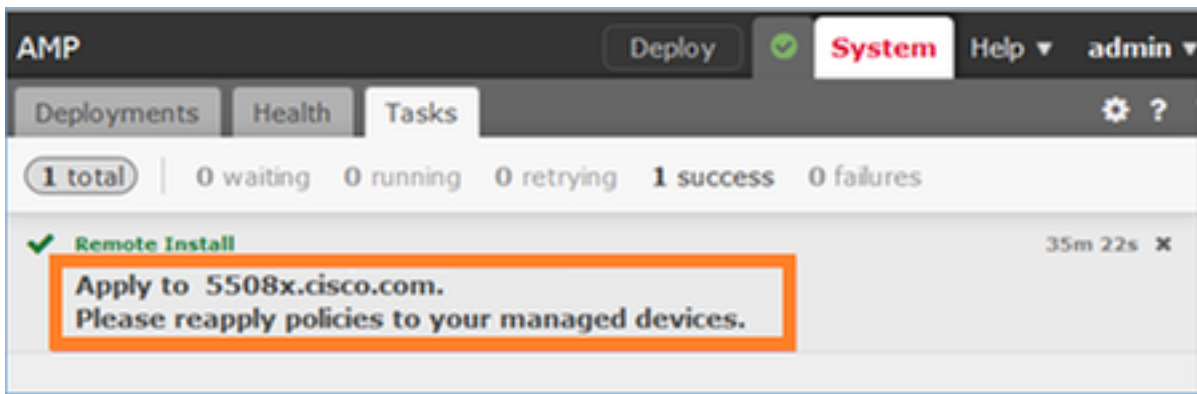
Una advertencia sobre la recarga FTD se muestra:

Update installation will reboot the system(s). Are you sure you want to continue?

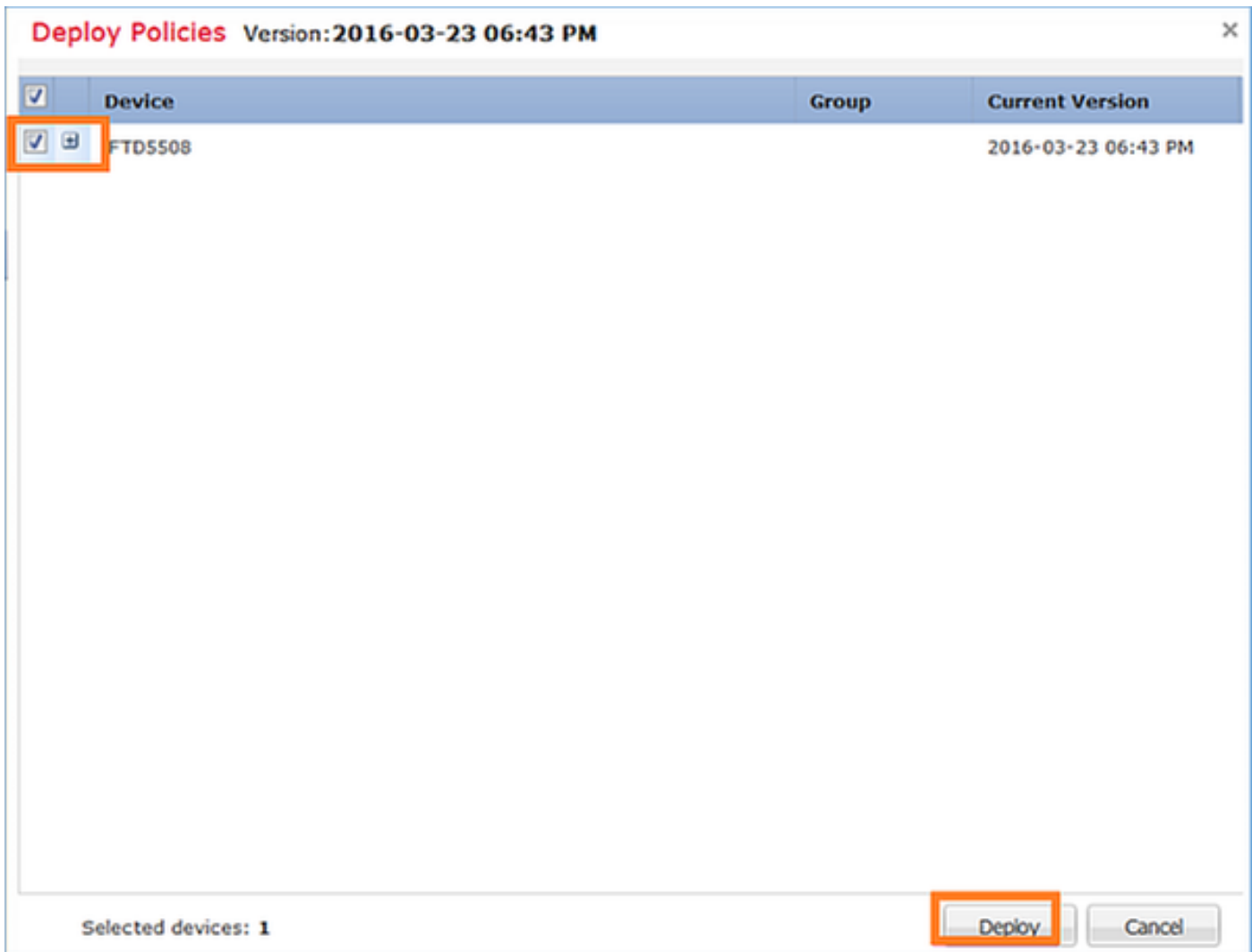
OK Cancel

La actualización en este caso tardó alrededor 35 minutos. Pues se muestra abajo, hay necesidad de reemplazar la directiva:





Despliegue las directivas:



## Verificación

Después de la actualización 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
-----
```

>

## La tarea 7. conecta y separa del modo CLI del motor de LINA

Ingresa en el modo CLI de LINA, después desconecta de ella.

### Solución

Del tipo de modo FTD CLISH el siguiente comando:

```
> 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#
```

Como se menciona en el mensaje arriba, desconectar (separar) del CTRL del tipo de la consola FTD LINA + de la a y después presionar d:

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

## Nueva imagen de la tarea 8. una instalación existente FTD

### Requisito

La nueva imagen la imagen existente FTD y instala la versión 6.1.0-330

### Solución

Esta tarea asume que hay un código corriente 6.0.1.x del dispositivo FTD y para cualesquiera razones hay la necesidad la recrear imagen (e.g corrupción de la base de datos irrecuperable, el defecto grave que no permite la actualización del software etc).

### Camina el resumen

1. Verificación de compatibilidad.
2. Desregistre FTD de FMC.
3. Recargue la aplicación FTD y ingrese el BootCLI.
4. Funcione con al asistente para la configuración.
5. Instale la imagen del sistema FTD.
6. Registre FTD en FMC.

## Pasos detallados

Paso 1. Marque los Release Note de la potencia de fuego y asegúrese de que la imagen FTD que usted quiere utilizar es compatible con el FMC. Si no actualice el FMC primero.

Paso 2. Desregistre (cancelación) FTD de FMC. Este paso es necesario puesto que después de la nueva imagen FTD sus cambios UUID y no se puede registrar otra vez, sino tiene que ser agregado del rasguño.

Paso 3. Recargue la aplicación FTD y ingrese el BootCLI. Puesto que hay ya una imagen existente FTD instaló la instalación de la imagen del arranque de sistema FTD puede ser saltada:

```
> reboot
```

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

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

```
Broadcast message: Stopping Cisco ASA5506-X Threat Defense.....ok
Shutting down sfid... [ 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 such 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: sshd stopped /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... y
```

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.

#####  
#####  
#####  
#####  
#####  
#####  
#####  
#####  
#####  
#####  
#####  
#####  
#####  
#####  
#####  
#####  
#####  
#####  
#####

LFBBFF 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:fe1a: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>
```

#### Paso 4.Run los parámetros del asistente para la configuración y de red básica del conjunto:

```
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>
```

La Conectividad del paso 5. Verify con el servidor (FTP, HTTP etc) que contiene la imagen del sistema FTD y comienza la instalación:

```
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.

## Paso 6. Registro FTD en 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           :
```

En FMC navegue a los **dispositivos** > a la **Administración de dispositivos** para agregar el dispositivo FTD.

Después de agregar FTD en FMC usted necesita:

- Configure de nuevo las configuraciones del dispositivo como las interfaces y la encaminamiento
- Configure de nuevo las directivas como el VPN y QoS
- Reaplique las directivas y las configuraciones previamente aplicadas como la directiva del control de acceso, el NAT y las configuraciones de la plataforma

## Información Relacionada

- [Guías de instalación y actualización](#)
- [Nueva imagen Cisco ASA o dispositivo de la defensa de la amenaza de la potencia de fuego](#)
- [Soporte Técnico y Documentación - Cisco Systems](#)