

Instalando e promovendo a defesa da ameaça da potência de fogo em dispositivos ASA 55xx-X

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Introdução

A defesa da ameaça da potência de fogo (FTD) é uma imagem do software unificada que possa ser instalada nas seguintes Plataformas:

- ASA5506-X, ASA5506W-X, ASA5506H-X, ASA5508-X, ASA5516-X
- ASA5512-X, ASA5515-X, ASA5525-X, ASA5545-X, ASA5555-X
- FPR4100, FPR9300
- VMware (ESXi)
- Serviços de Web das Amazonas (AW)
- KVM
- Módulo de roteador ISR

Objetivo

O objetivo deste documento é demonstrar:

- A instalação da versão 6.0.0 FTD na plataforma ASA5508-X e ASA5512-X
- O procedimento de upgrade de FTD da versão 6.0.0 à 6.0.1
- Registro do centro de gerenciamento da potência de fogo (FMC) e licenciar básico

Componentes usados

- ASA5508-X
- ASA5512-X
- Centro de gerenciamento de FireSIGHT (FMC) que executa 6.0.1 (construção 1213)

Download do software FTD

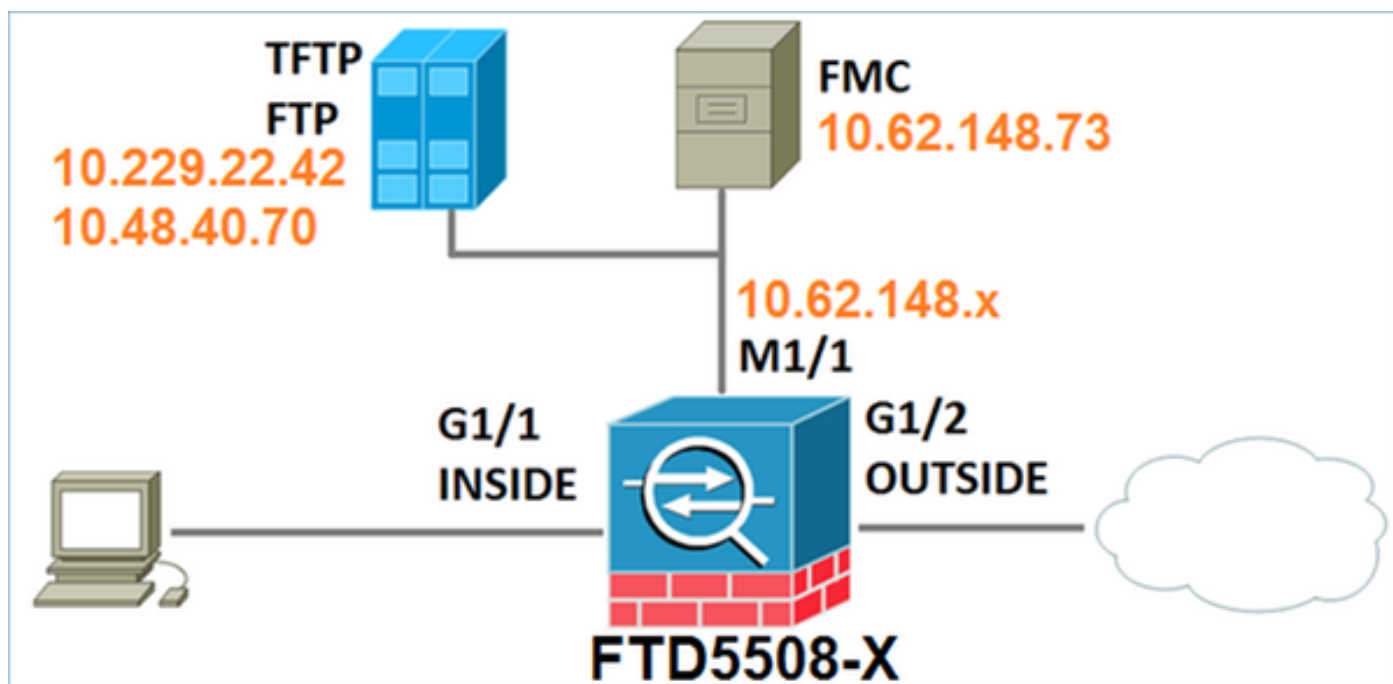
Vai aos Firewall da próxima geração (NGFW) > o ASA com potência de fogo presta serviços de manutenção > ASA 5508-X com os serviços da potência de fogo e o software seletor da defesa da ameaça da potência de fogo



The screenshot shows the Cisco Download Software page. The breadcrumb trail is: Downloads Home > Products > Security > Firewalls > Next-Generation Firewalls (NGFW) > ASA with FirePOWER Services > ASA 5508-X with FirePOWER Services. Under the heading "Select a Software Type:", a list of software options is shown, with "Firepower Threat Defense Software" highlighted by an orange box.

Similarmente para o software ASA5512-X

Topologia



Tarefa 1? Verificando as condições prévias

Verifique as condições prévias antes da instalação FTD

Solução

Para a instalação FTD você usa 2 imagens

1. Imagem de SO (AKA imagem de boot) - Para a defesa da ameaça da potência de fogo em ASA5506-X, ASA5506H-X, ASA5506W-X, ASA5508-X, ASA5516-X é um arquivo *.lfbff. Para a defesa da ameaça da potência de fogo em Saleen (ASA5512-X, ASA5515-X, ASA5525-X, ASA5545-X, ASA5555-X) é um arquivo *.cdisk.
2. Imagem do sistema? Este é um arquivo .package

Antes de continuar com a instalação FTD verifique o seguinte:

- O flash ASA deve ter pelo menos o espaço livre 3.1 GBytes (3GBytes + tamanho da imagem de boot)
- A imagem de boot é transferida arquivos pela rede a um servidor TFTP
- A imagem do sistema é transferida arquivos pela rede a um HTTP ou a um servidor FTP
- OnASA5506/08/16 o ROMMON é pelo menos a versão 1.1.8

Verificando o espaço livre:

```
FTD5508X# show flash | i free7859437568 bytes total (4273819648 bytes free)
```

Verificando as imagens

Nome do arquivo	Descrição
ftd-boot-9.6.1.0.lfbff	imagem de boot da defesa da ameaça da potência de fogo v6.0.1 para 5506/5508/5516. Esta é a imagem de boot para a instalação limpa em 5506/5508/5516
ftd-boot-9.6.1.0.cdisk	imagem de boot da defesa da ameaça da potência de fogo v6.0.1 para ASA 5512/5515/5525/5545/5555. Esta é a imagem de boot para a instalação limpa em 5512/5515/5525/5545/5555
ftd-6.0.0-1005.pkg	defesa da ameaça da potência de fogo v6.0.0 para todos os ASA apoiados: 5506/5508/5512/5515/5516/5525/5545/5555. Esta é a imagem do sistema para a instalação limpa

Tarefa 2? Promovendo o ASA5508-X ROMMON

Enquanto se menciona nas condições prévias, os dispositivos ASA5506-X, ASA5508-X e ASA5516-X devem estar em ROMMON v1.1.8. Se não instale então asa5500-firmware-1108.SPA (disponível na página da transferência de Cisco ASA)

Encarregue a exigência

Promova ASA5508 ROMMON de 1.1.1 a 1.1.8

Solução

O procedimento é descrito no [guia do rommon upgrade ASA](#).

Passo 1

Verifique a versão rommon existente:

```
FTD5508X#show moduleMod Card Type Model Serial No.-----
----- 1 ASA 5508-X with FirePOWER services, 8GE, AC, ASA5508
JAD192100SZ sfr FirePOWER Services Software Module ASA5508 JAD192100SZMod 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
```

Passo 2

Transfira o firmware ROMMON no ASA? flash s:

```
FTD5508X# copy ftp://10.48.40.70/ANG/mzafeiro/asa5500-firmware-1108.SPA disk0:asa5500-firmware-
1108.SPAAddress 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:
d824bdeecel1308fc64427367fa559e9 eefe8f182491652ee4c05e6e751f7a4f
5cdea28540cf60acde3ab9b65ff55a9f 4e0cfb84b9e2317a856580576612f4afEmbedded Hash SHA2:
d824bdeecel1308fc64427367fa559e9 eefe8f182491652ee4c05e6e751f7a4f
5cdea28540cf60acde3ab9b65ff55a9f 4e0cfb84b9e2317a856580576612f4afDigital signature successfully
validatedWriting file disk0:/asa5500-firmware-1108.SPA...!!!!!!!!!!!!!!!!9241408 bytes copied in 18.890
secs (513411 bytes/sec)
```

Etapa 3

Promova a imagem de ROMMON ASA:

```
FTD5508X# upgrade rommon disk0:asa5500-firmware-1108.SPAVerifying file integrity of
disk0:/asa5500-firmware-1108.SPAComputed Hash SHA2: d824bdeecel1308fc64427367fa559e9
eefe8f182491652ee4c05e6e751f7a4f 5cdea28540cf60acde3ab9b65ff55a9f
4e0cfb84b9e2317a856580576612f4afEmbedded Hash SHA2: d824bdeecel1308fc64427367fa559e9
eefe8f182491652ee4c05e6e751f7a4f 5cdea28540cf60acde3ab9b65ff55a9f
4e0cfb84b9e2317a856580576612f4afDigital signature successfully validatedFile Name :
disk0:/asa5500-firmware-1108.SPAImage 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 :
AVerification 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 ControllerShutting down File system***** --- SHUTDOWN NOW
---***** Message to all terminals:***** Performing upgrade on rom-monitor.Process shutdown
finishedRebooting....INIT: Sending processes the TERM signalDeconfiguring network interfaces...
done.Sending all processes the TERM signal...Sending all processes the KILL
signal...Deactivating swap...Unmounting local filesystems...Rebooting... Rom image verified
correctlyCisco Systems ROMMON, Version 1.1.01, RELEASE SOFTWARECopyright (c) 1994-2014 by Cisco
Systems, Inc.Compiled Mon 10/20/2014 15:59:12.05 by builderCurrent image running: Boot ROM0Last
reset cause: PowerCycleRequestDIMM Slot 0 : PresentDIMM Slot 1 : PresentINFO: Rommon upgrade
state: ROMMON_UPG_START (1)INFO: Reset code: 0x00002000Firmware upgrade step 1...Looking for
file 'disk0:asa5500-firmware-1108.SPA'Located 'asa5500-firmware-1108.SPA' @ cluster
856765.#####
##Image base 0x77014018, size 9241408LFBFF signature verified.Objtype: lfbff_object_rommon
(0x800000 bytes @ 0x77014238)Objtype: lfbff_object_fpga (0xd0100 bytes @ 0x77814258)INFO: FPGA
version in upgrade image: 0x0202INFO: FPGA version currently active: 0x0202INFO: 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 0Switching 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 correctlyCisco Systems ROMMON, Version 1.1.01, RELEASE
```

```

SOFTWARECopyright (c) 1994-2014 by Cisco Systems, Inc.Compiled Mon 10/20/2014 15:59:12.05 by
builderCurrent image running: Boot ROM0Last reset cause: RP-ResetDIMM Slot 0 : PresentDIMM Slot
1 : PresentINFO: Rommon upgrade state: ROMMON_UPG_START (1)INFO: Reset code: 0x00000008Active
ROMMON: Preferred 0, selected 0, booted 0Firmware upgrade step 2...Detected current rommon
upgrade is available, continue rommon upgrade processRommon upgrade reset 0 in progressReloading
now as step 2 of the rommon upgrade process...Rom image verified correctlyCisco Systems ROMMON,
Version 1.1.8, RELEASE SOFTWARECopyright (c) 1994-2015 by Cisco Systems, Inc.Compiled Thu
06/18/2015 12:15:56.43 by buildersCurrent image running: *Upgrade in progress* Boot ROM1Last
reset cause: BootRomUpgradeDIMM Slot 0 : PresentDIMM Slot 1 : PresentINFO: Rommon upgrade state:
ROMMON_UPG_START (1)INFO: Reset code: 0x00000010PROM B: stopping boot timerActive ROMMON:
Preferred 0, selected 0, booted 1INFO: Rommon upgrade state:
ROMMON_UPG_TEST!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
Please manually or auto boot ASAOS now to complete firmware upgrade
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!Platform ASA5508 with
8192 Mbytes of main memoryMAC Address: 18:8b:9d:1e:ca:7cUse 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
bootingStarting udevConfiguring network interfaces... done.Populating dev cachedosfsck 2.11, 12
Mar 2005, FAT32, LFNTThere 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
clustersdosfsck(/dev/sdb1) returned 0IO Memory Nodes: 1IO Memory Per Node: 499122176 bytesGlobal
Reserve Memory Per Node: 314572800 bytes Nodes=1Processor memory 3807834603LCMB: got 499122176
bytes on numa-id=0, phys=0x1b8000000, virt=0x2aaaaae0000LCMB: HEAP-CACHE POOL got 314572800
bytes on numa-id=0, virt=0x2aaac8a0000Compiled on Sat 28-Nov-15 00:16 PST by buildersTotal NICs
found: 13i354 rev03 Gigabit Ethernet @ irq255 dev 20 index 08 MAC: 188b.9d1e.ca7civshmem rev03
Backplane Data Interface @ index 09 MAC: 0000.0001.0002en_vtun rev00 Backplane Control Interface
@ index 10 MAC: 0000.0001.0001en_vtun rev00 Backplane Int-Mgmt Interface @ index 11 MAC:
0000.0001.0003en_vtun rev00 Backplane Ext-Mgmt Interface @ index 12 MAC: 0000.0000.0000Rom-
monitor was successfully upgraded....

```

Verificação

Você pode usar o comando " show module " verificar a versão de software rommon:

```

FTD5508X> enablePassword:FTD5508X# show moduleMod Card Type Model Serial No.-----
----- 1 ASA 5508-X with FirePOWER
services, 8GE, AC, ASA5508 JAD192100SZ sfr FirePOWER Services Software Module ASA5508
JAD192100SZMod MAC Address Range Hw Version Fw Version Sw Version-----
----- 1 188b.9d1e.ca7c to 188b.9d1e.ca84 1.0 1.1.8
9.5(2) sfr 188b.9d1e.ca7b to 188b.9d1e.ca7b N/A N/A 5.4.1-211

```

Tarefa 3? Instalando a imagem de boot FTD em ASA55xx-X

Exigência da tarefa

Instale a imagem de boot ftd-boot-9.6.1.0.lfbff FTD em ASA5508-X.

Solução

Há mais os métodos de um para fazer isto. Está aqui primeiro:


```

dosfsck 2.11, 12 Mar 2005, FAT32, LFN
/dev/sdb1: 47 files, 24618/1919063
clusters=====Launching boot CLI ...Configuring network
interface using static IPBringing up network interface.Depending on your network, this might
take a couple of minutes when using DHCP...ifup: interface lo already configuredUsing 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>

Em ASA5512/15/25/45/55 o procedimento é o mesmo com somente diferença o nome da imagem de boot:

```

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

```

Método 2 - Do modo ASA

Passo 1

Do modo exec ASA (nenhum ROMMON) copie a imagem de boot FTD no flash ASA:

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

Passo 2

Suprima de todas as imagens ASA do disco:

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

Os conteúdos flash após ter suprimido de imagens 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 <--

```

Etapa 3

Recarregue o ASA. Deve carreg da imagem de boot 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
commandsfirepower-boot>
```

Tarefa 4? Instalando a imagem do sistema FTD em ASA55xx-X

Instale a imagem do sistema FTD em ASA5508-X

Solução

```
firepower-boot> setup Welcome to Cisco FTD Setup [hit Ctrl-C to abort] Default values are inside
[]Enter a hostname [firepower]: FTD5508Do 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: 173.38.200.100Do you want to configure Secondary DNS Server? (y/n) [n]: yEnter the
secondary DNS server IP address: 144.254.71.184Do 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]: 171.68.38.65Please review the
final configuration:Hostname: FTD5508Management Interface ConfigurationIPv4 Configuration:
static IP Address: 10.62.148.29 Netmask: 255.255.255.128 Gateway: 10.62.148.1IPv6 Configuration:
Stateless autoconfigurationDNS Configuration: DNS Server: 173.38.200.100 144.254.71.184NTP
configuration: 171.68.38.65CAUTION:You have selected IPv6 stateless autoconfiguration, which
assigns a global addressbased on network prefix and a device identifier. Although this address
is unlikelyto 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 a Conectividade com o 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 o pacote 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]
yErasing disk0 ...VerifyingEnter credentials to authenticate with ftp serverUsername:
ftpPassword:VerifyingDownloadingExtracting <-- Here give it some time (~10 min)Package Detail
Description: Cisco ASA-NGFW 6.0.0-1005 System Install Requires reboot: YesDo 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 EnterBroadcast 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:
exitingacpid.Stopping system message bus: dbus.Stopping ntpd: stopped process in pidfile
'/var/run/ntp.pid' (pid 2055)doneStopping crond: OKDeconfiguring network interfaces...
```


done.Sending all processes the TERM signal...Sending all processes the KILL signal...Deactivating swap...Unmounting local filesystems...Rebooting...
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 ROM 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/sdafsck 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 initialize Objects... 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: 13i354 rev03 Gigabit Ethernet @ irq255

```

dev 20 index 08 MAC: 188b.9d1e.ca7civshmem rev03 Backplane Data Interface @ index 09 MAC:
0000.0001.0002en_vtun rev00 Backplane Control Interface @ index 10 MAC: 0000.0001.0001en_vtun
rev00 Backplane Int-Mgmt Interface @ index 11 MAC: 0000.0001.0003en_vtun rev00 Backplane Ext-
Mgmt Interface @ index 12 MAC: 0000.0000.0000INFO: Unable to read firewall mode from flash
Writing default firewall mode (single) to flashINFO: Unable to read cluster interface-mode from
flash Writing default mode "None" to flashVerify the activation-key, it might take a
while...Failed to retrieve permanent activation key.Running Permanent Activation Key: 0x00000000
0x00000000 0x00000000 0x00000000 0x00000000The Running Activation Key is not valid, using
default settings:Licensed features for this platform:Maximum Physical Interfaces : Unlimited
perpetualMaximum VLANs : 50 perpetualInside Hosts : Unlimited perpetualFailover : Active/Active
perpetualEncryption-DES : Enabled perpetualEncryption-3DES-AES : Disabled perpetualSecurity
Contexts : 2 perpetualGTP/GPRS : Disabled perpetualAnyConnect Premium Peers : 4
perpetualAnyConnect Essentials : Disabled perpetualOther VPN Peers : 100 perpetualTotal VPN
Peers : 100 perpetualShared License : Disabled perpetualAnyConnect for Mobile : Disabled
perpetualAnyConnect for Cisco VPN Phone : Disabled perpetualAdvanced Endpoint Assessment :
Disabled perpetualTotal UC Proxy Sessions : 320 perpetualBotnet Traffic Filter : Disabled
perpetualCluster : Disabled perpetualVPN Load Balancing : Enabled perpetualEncryption 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 e547792bINFO: 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:
adminPassword: <-- Admin123You must accept the EULA to continue.Press <ENTER> to display the
EULA:
... EULA is displayed - output is omittedEND USER LICENSE AGREEMENTPlease 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]:
10.62.148.29Enter an IPv4 netmask for the management interface [255.255.255.0]:
255.255.255.128Enter the IPv4 default gateway for the management interface []: 10.62.148.1Enter
a fully qualified hostname for this system [firepower]: FTD5508Enter a comma-separated list of
DNS servers or 'none' []: 173.38.200.100,144.254.71.184Enter 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 configurationYou can register the sensor to a Firepower Management Center and use
theFirepower Management Center to manage it. Note that registering the sensorto a Firepower
Management Center disables on-sensor Firepower Servicesmanagement capabilities.When registering
the sensor to a Firepower Management Center, a uniquealphanumeric registration key is always
required. In most cases, to registra sensor to a Firepower Management Center, you must provide
the hostname orthe 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 aNAT device, you must enter a unique NAT ID, along with the unique
registrationkey.'configure manager add DONTRESOLVE [registration key ] [ NAT ID ]'Later, using
the web interface on the Firepower Management Center, you mustuse the same registration key and,
if necessary, the same NAT ID when you addthis sensor to the Firepower Management Center.>

```

Dica: Você pode usar a opção do “noconfirm” para instalar a imagem. Nesse caso você não será alertado durante a instalação

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

Em FTD 6.1.x e acima de você será alertado para o modo de gerenciamento (local contra o telecontrole).

```
For HTTP Proxy configuration, run 'configure network http-proxy'Manage the device locally?  
(yes/no) [yes]: noConfigure firewall mode? (routed/transparent) [routed]:
```

Modo local = aplicável somente em dispositivos ASA55xx-X. Você controlará o FTD do gerenciador de dispositivo da potência de fogo (FDM)

Modo remoto = você controlará o FTD do centro de gerenciamento da potência de fogo (FMC)

Verificação

```
> show version-----[ FTD5508 ]-----Model : Cisco ASA5508-X Threat  
Defense (75) Version 6.0.0 (Build 1005)UUID : 8c3f4b7e-ea11-11e5-94f1-f3a55afb51a3Rules update  
version : 2015-10-01-001-vrtVDB version : 252-----  
->
```

A instalação da imagem do sistema em ASA5512/15/25/45/55 é a mesma que acima

Tarefa 5? Registrando FTD a FMC

Registrar FTD ao server FMC usando os seguintes ajustes:

Host	10.62.148.29
Nome de exibição	FTD5508
Chave do registro	cisco
Grupo nenhuns	
Política do controle de acesso	FTD5508
Política da base da política do controle de acesso	Nenhum
Ação padrão da política do controle de acesso	Obstrua todo o tráfego

Solução

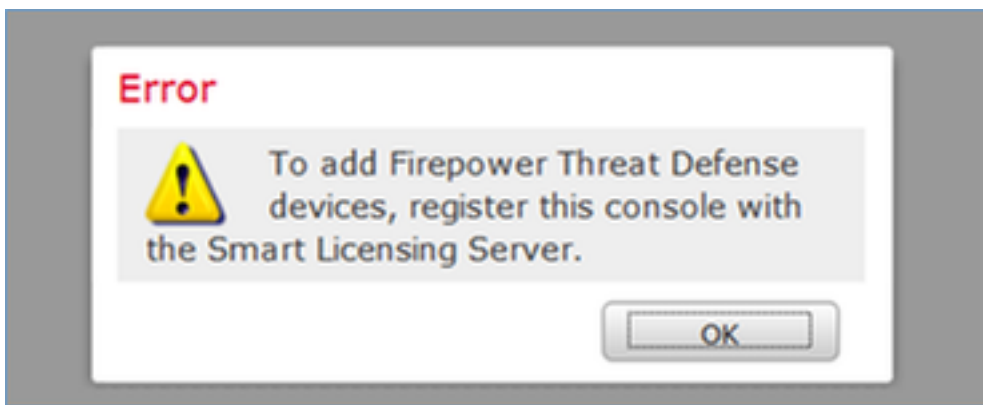
Passo 1

Em FTD especifique o server FMC:

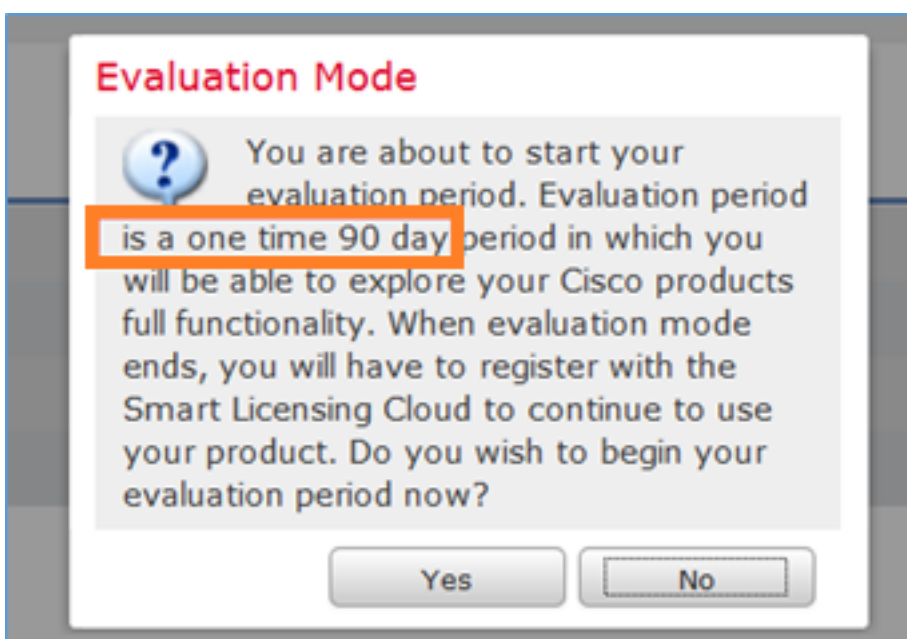
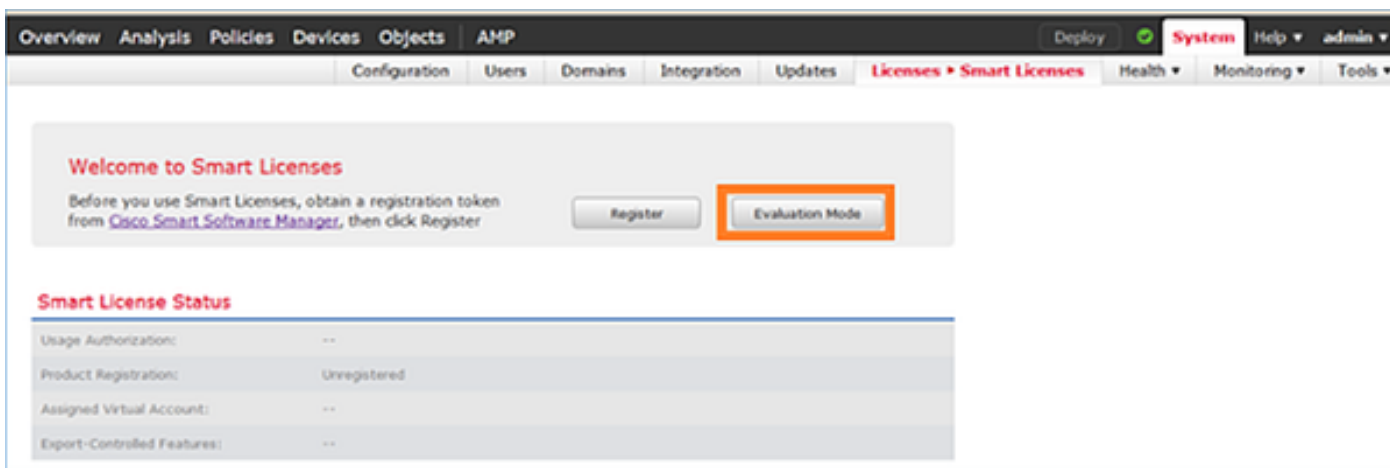
```
> configure manager add 10.62.148.73 ciscoManager successfully configured.Please make note of  
reg_key as this will be required while adding Device in FMC.> show managersHost :  
10.62.148.73Registration Key : ****Registration : pendingRPC Status :Type : ManagerHost :  
10.62.148.73Registration : Pending>
```

Passo 2

Antes de adicionar o FTD você precisa de registrar o FMC com o server esperto licenciar. Se você tenta adicionar um dispositivo FTD sem ter uma licença esperta você obtém o seguinte erro:



Você pode escolher o modo de avaliação. Isto reservará usar FTD por 90 dias.



Overview Analysis Policies Devices Objects AMP Deploy System Help admin

Configuration Users Domains Integration Updates Licenses Smart Licenses Health Monitoring Tools

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

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

Usage Authorization: N/A
Product Registration: ✓ Evaluation Period (Expires in 89 days)
Assigned Virtual Account: Evaluation Mode
Export-Controlled Features: Enabled

Smart Licenses Filter Devices... Edit Licenses

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

Etapa 3

Em FMC crie primeiramente a política do controle de acesso que será usada por FTD.

Vá às políticas > ao controle de acesso e clique sobre a política nova

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:

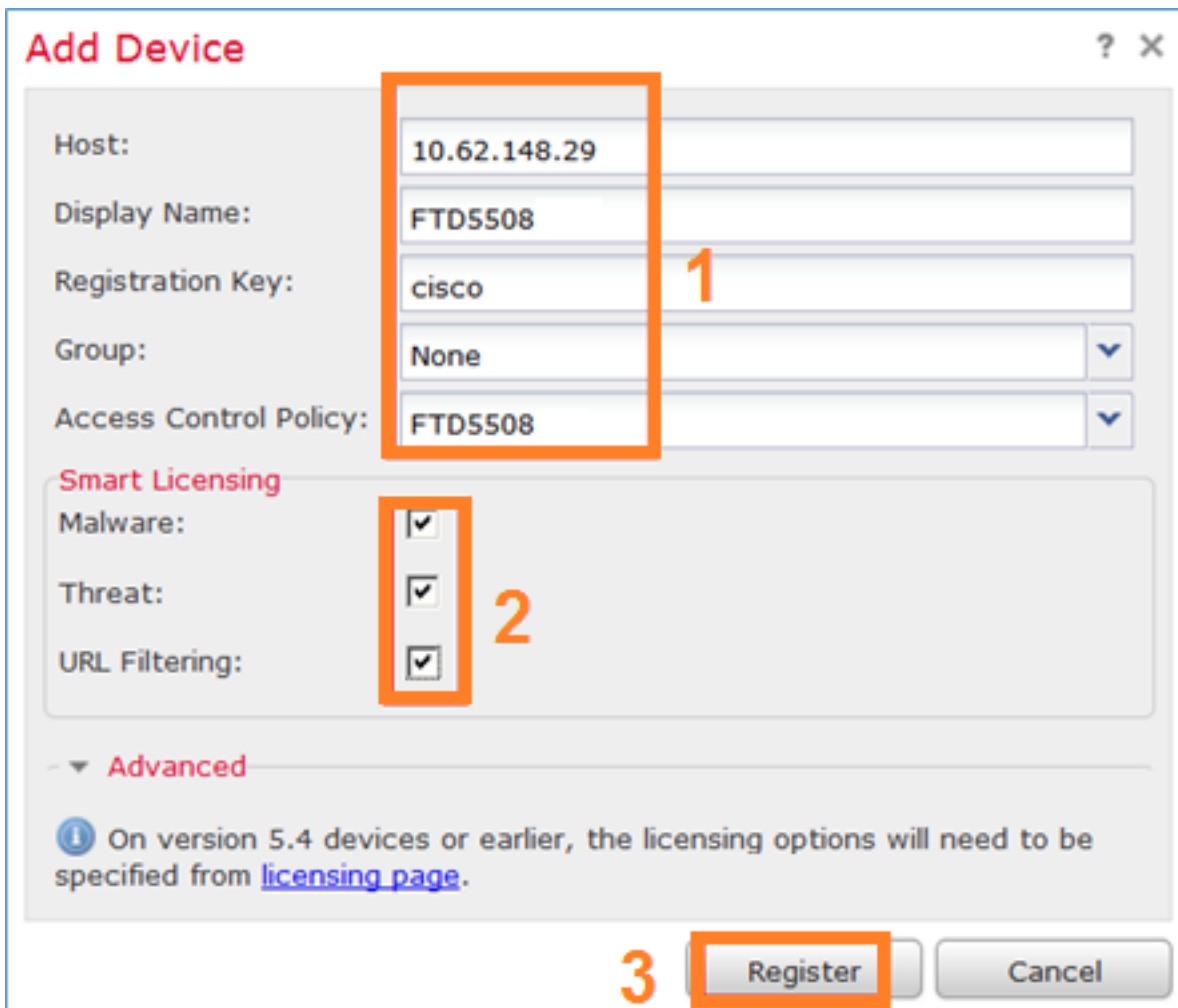
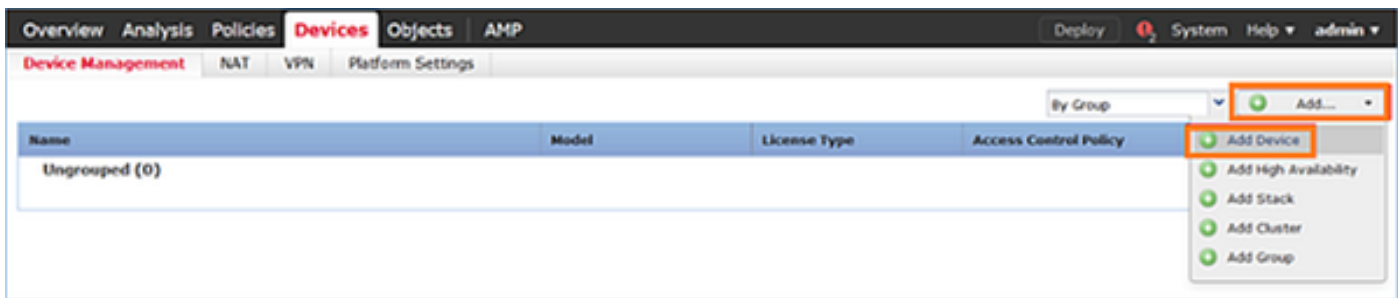
Description:

Select Base Policy: ▼

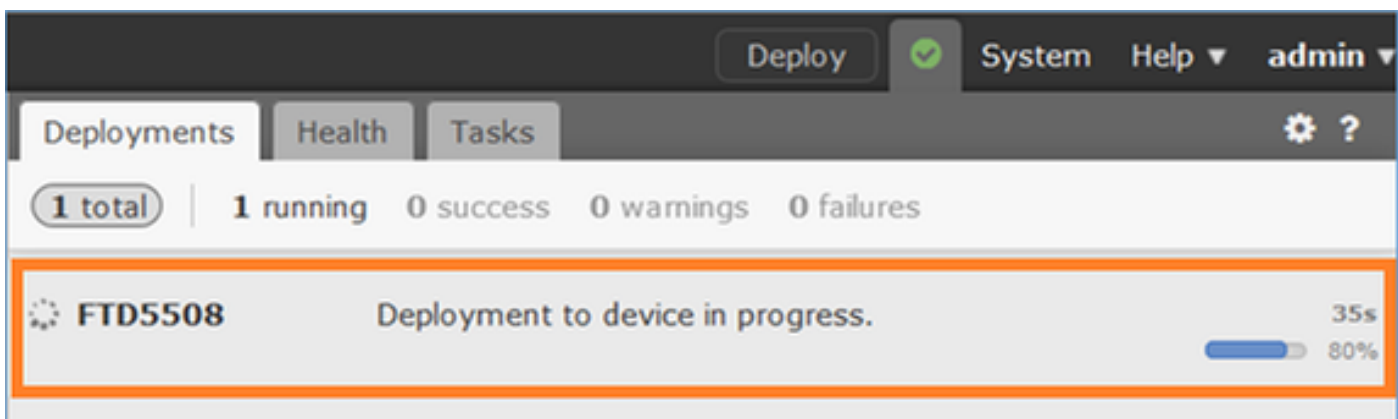
Default Action: Block all traffic Intrusion Prevention Network Discovery

Targeted Devices

Adicionar então o dispositivo FTD:



Na extremidade da adição FTD uma política é distribuída:



Para verificar o que está acontecendo no fundo ao adicionar o dispositivo FTD permite a **trança** em FMC e em FTD

Em FMC:

```
admin@fs4k:~$ sudo
pigtail*****
*****
***** Displaying logs: ACTQ HTTP DCSM VMSS MOJO NGFW NGUI VMSB
TCAT DEPL MSGS
USMS*****
*****
```

Em FTD:

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

Nota de Troubleshooting - Se o status da interface FTD Management está “para baixo” certifique-se de que o valor do confreg é "0x1"

Encarregue 6? Promovendo FTD

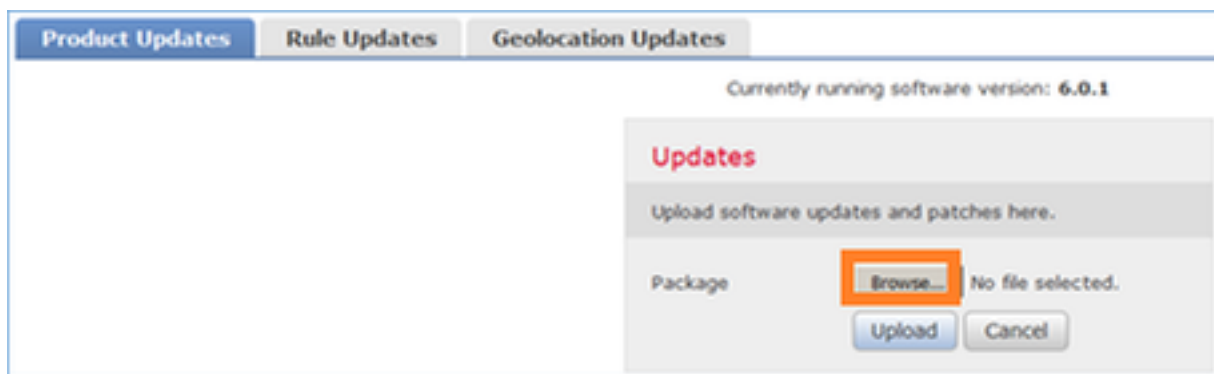
Nesta elevação FTD da tarefa de 6.0.0 a 6.0.1.

	Versão	Nome do arquivo
Imagem inicial FTD	Versão 6.0.0 (construção 1005)	ftd-6.0.0-1005.pkg
Imagem do alvo FTD	Versão 6.0.1 (construção 1213)	Cisco_FTD_Upgrade-6.0.1-1213.sh

Solução

Passo 1

Transfira arquivos pela rede a imagem FTD em FMC:



Passo 2

Instale a imagem FTD:

The screenshot shows the Cisco AMP console interface. At the top, there are navigation tabs: Overview, Analysis, Policies, Devices, Objects, AMP, and System. The 'Updates' tab is selected. Below the navigation, there are sub-tabs for Product Updates, Rule Updates, and Geolocation Updates. A 'Task Notification' box displays a success message: 'Message_Center_Tasks_Tab Your task Installing Sourcefire Geolocation Database Update version: GeoDB-2016-03-05-001 (Local Install) succeeded at Wed Mar 23 11:52:57 2016. Successfully installed the Geolocation Database'. Below this, a green 'Success' box indicates 'Upload succeeded'. The current software version is 6.0.1. A table of updates is shown below:

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

The screenshot shows the 'Selected Update' details for the Cisco FTD Upgrade. The details are:

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

Below the details, there is a list of updates. The first update is selected and highlighted with a red box and the number '1':

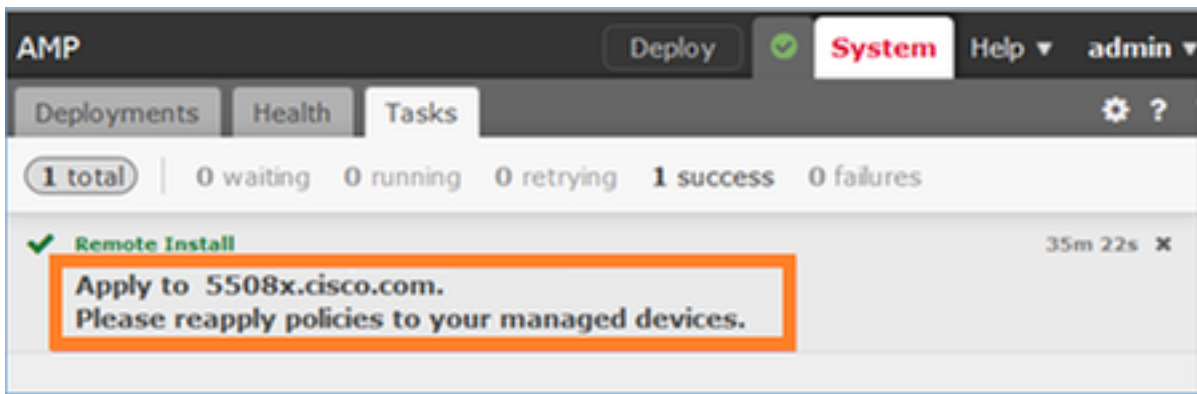
Type	Version	Date	Release Notes	Reboot
FTD5508	10.62.148.29 - Cisco ASA5508-X Threat Defense v6.0.0			None

The 'Install' button is highlighted with a red box and the number '2'.

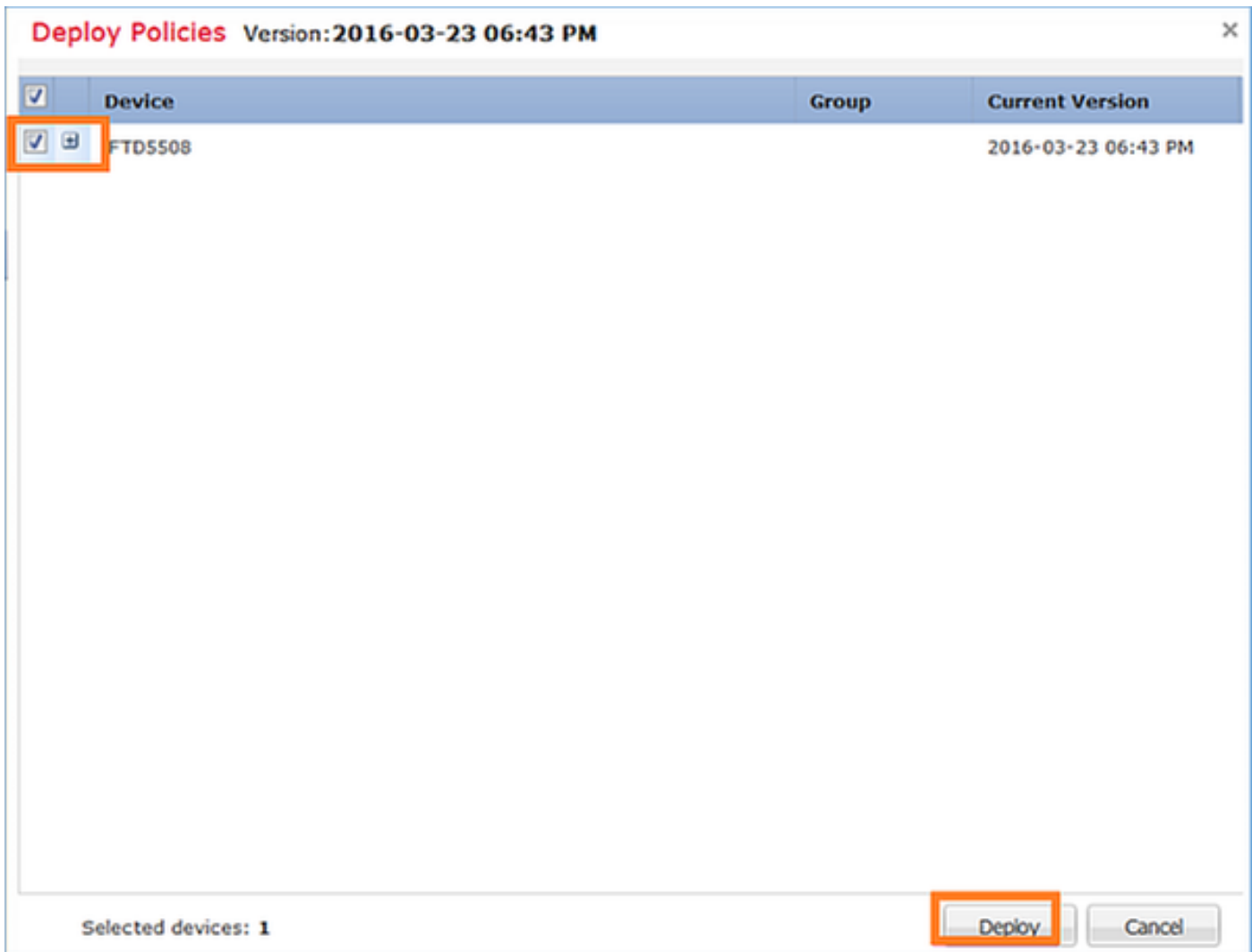
Um aviso sobre o reload FTD é mostrado:

The screenshot shows a warning dialog box with the text: 'Update installation will reboot the system(s). Are you sure you want to continue?'. There are 'OK' and 'Cancel' buttons at the bottom.

A elevação tomou neste caso ao redor 35 minutos. Porque se mostra abaixo, há uma necessidade de reuplicar a política:



Distribua as políticas:



Verificação

Após a elevação 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
-----
>
```

Tarefa 7? Entrar a e destacar do modo de CLI do ASA-motor

Incorpore o modo de CLI ASA, a seguir desligue-o dele.

Solução

Do tipo de modo FTD CLISH o comando seguinte:

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

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

Como se menciona na mensagem acima, para desligar (para destacar) do tipo do console FTD ASA CTRL + a e para pressionar então d:

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

Tarefa 8? A instalação existente de Reimaging FTD

Exigência

A nova imagem a imagem existente FTD e instala a versão 6.1.0-330

Solução

Esta tarefa supõe que há um código running 6.0.1.x do dispositivo FTD e para o que razões há nova imagem da necessidade ele (por exemplo corrompimento de base de dados unrecoverable, o defeito catastrófico que doesn't permite o upgrade de software etc.).

Pisa o sumário

1. Verificação de compatibilidade
2. Remover registro FTD de FMC
3. Recarregue o dispositivo FTD e entre no BootCLI
4. Execute o assistente de configuração
5. Instale a imagem do sistema FTD
6. Registrar FTD em FMC

Etapas detalhadas

Passo 1

Verifique os Release Note da potência de fogo e certifique-se de que a imagem FTD que você quer usar está compatível com o FMC. Se não promova o FMC primeiramente.

Passo 2

Remover registro (supressão) FTD de FMC. Esta etapa é precisada desde que após a nova imagem FTD suas mudanças UUID e não pode ser registrada outra vez, mas tem que ser adicionada do risco.

Etapa 3

Recarregue o dispositivo FTD e entre no BootCLI. Desde que há já uma imagem existente FTD instalou a instalação da imagem de boot FTD pode ser saltada:

```
> rebootThis command will reboot the system. Continue?Please enter 'YES' or 'NO': YESBroadcast
messagStopping Cisco ASA5506-X Threat Defense.....okShutting down sfid... [ OK ]Clearing
static routesUnconfiguring default route [ OK ]Unconfiguring address on br1 [ OK ]Unconfiguring
IPv6 [ OK ]Downing interface [ OK ]Stopping nscd... [ OK ]Stopping system log daemon... [ OK
]Stopping Threat Defense ...cp: cannot stat '/etc/ssh': No such file or directoryStopping 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: exitingacpid.Stopping system
message bus: dbus.Deconfiguring network interfaces... ifdown: interface br1 not
configureddone.Sending all processes the TERM signal...Sending all processes the KILL
signal...Deactivating swap...Unmounting local filesystems...Rebooting... Å¿Rom image verified
correctlyCisco Systems ROMMON, Version 1.1.8, RELEASE SOFTWARECopyright (c) 1994-2015 by Cisco
Systems, Inc.Compiled Thu 06/18/2015 12:15:56.43 by buildersCurrent image running: Boot ROM0Last
reset cause: PowerCycleRequestDIMM Slot 0 : PresentPlatform ASA5506 with 4096 Mbytes of main
memoryMAC Address: 84:3d:c6:1a:cf:39Use 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 bootingStarting
udevConfiguring network interfaces... done.Populating dev cacheDetected PID ASA5506.Found device
serial number JAD2034008E.Found USB flash drive /dev/sdbFound hard drive(s): /dev/sdafsc from
```

```
util-linux 2.23.2dosfsck 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 BootCLILaunching boot CLI ...Configuring network interface using DHCPBringing up network
interface.Depending on your network, this might take a couple of minutes when using DHCP...ifup:
interface lo already configuredUsing IPv6 address: fe80::863d:c6ff:fela:cf38IPv4 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 upacpid: 1 rule loadedacpid: waiting for events: event logging is
offStarting ntpd: doneStarting 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
commandsfirepower-boot>
```

Passo 4

Execute o assistente de configuração e ajuste parâmetros de rede básica:

```
firepower-boot>setup Welcome to Cisco FTD Setup [hit Ctrl-C to abort] Default values are inside
[]Enter a hostname [firepower]: FTD5506Do you want to configure IPv4 address on management
interface?(y/n) [Y]: YDo you want to enable DHCP for IPv4 address assignment on management
interface?(y/n) [Y]: nEnter an IPv4 address: 10.48.66.83Enter the netmask: 255.255.255.128Enter
the gateway: 10.48.66.1Do you want to configure static IPv6 address on management
interface?(y/n) [N]: NStateless autoconfiguration will be enabled for IPv6 addresses.Enter the
primary DNS server IP address: 192.168.0.1Do you want to configure Secondary DNS Server? (y/n)
[n]: nDo you want to configure Local Domain Name? (y/n) [n]: nDo you want to configure Search
domains? (y/n) [n]: nDo you want to enable the NTP service? [Y]: nPlease review the final
configuration:Hostname: FTD5506Management Interface ConfigurationIPv4 Configuration: static IP
Address: 10.48.66.83 Netmask: 255.255.255.128 Gateway: 10.48.66.1IPv6 Configuration: Stateless
autoconfigurationDNS Configuration: DNS Server: 192.168.0.1NTP configuration:
DisabledCAUTION:You have selected IPv6 stateless autoconfiguration, which assigns a global
addressbased on network prefix and a device identifier. Although this address is unlikelyto
change, if it does change, the system will stop functioning correctly.We suggest you use static
addressing instead.Apply the changes?(y,n) [Y]: YConfiguration saved
successfully!Applying...Restarting network services...Done.Press ENTER to continue...firepower-
boot>
```

Etapa 5

Verifique a Conectividade com o server (FTP, HTTP etc.) que contém a imagem do sistema FTD e comece a instalação:

```
firepower-boot>ping 10.48.40.70PING 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 ms64 bytes from 10.48.40.70: icmp_seq=2 ttl=64
time=0.465 ms64 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 2000msrtt min/avg/max/mdev
= 0.465/185.466/555.424/261.599 msfirepower-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]
yErasing disk0 ...VerifyingDownloadingExtractingPackage Detail Description: Cisco ASA-FTD 6.1.0-
330 System Install Requires reboot: YesWarning: 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 scriptsExecuting
```

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 directoryfatattr: can't open '/mnt/disk0/.ngfw': No such file or directoryModel reconfigure detected, executing scriptsPinging mysqlFound mysql is runningExecuting 45update-sensor.pl [OK]Executing 55recalculate_arc.pl [OK]Starting xinetd:Sat Jan 14 12:07:35 UTC 2017Starting MySQL...Pinging mysqlPinging mysql, try 1Pinging mysql, try 2Found mysql is runningRunning initializeObjects...Stopping MySQL...Killing mysqld with pid 22354Wait for mysqld to exit\c doneSat Jan 14 12:07:57 UTC 2017Starting 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' []: 192.168.0.1Enter 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 policyYou can register the sensor to a Firepower Management Center and use theFirepower Management Center to manage it. Note that registering the sensorto a Firepower Management Center disables on-sensor Firepower Servicesmanagement capabilities.When registering the sensor to a Firepower Management Center, a uniquealphanumeric registration key is always required. In most cases, to registra sensor to a Firepower Management Center, you must provide the hostname orthe 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 aNAT device, you must enter a unique NAT ID, along with the unique registrationkey.'configure manager add DONTRESOLVE [registration key] [NAT ID]'Later, using the web interface on the Firepower Management Center, you mustuse the same registration key and, if necessary, the same NAT ID when you addthis sensor to the Firepower Management Center.

Etapa 6

Registro FTD em FMC

```
> configure manager add 10.62.148.50 ciscoManager successfully configured. Please make note of  
reg_key as this will be required while adding Device in FMC.> show managersHost :  
10.62.148.50Registration Key : ****Registration : pendingRPC Status :
```

Em FMC clique sobre os **dispositivos** > o **Gerenciamento de dispositivos** para adicionar o dispositivo FTD.

Após ter adicionado FTD em FMC você precisa:

- Reconfigure os ajustes do dispositivo como relações e roteamento
- Reconfigure políticas como o VPN e o QoS
- Reaplique as políticas e os ajustes previamente aplicados como a política do controle de acesso, o NAT e os ajustes da plataforma

Documentos relacionados

[Instale e promova guias](#)

[Nova imagem Cisco ASA ou dispositivo da defesa da ameaça da potência de fogo](#)