Installatie en upgrade van Firepower Threat Defense op ASA 555x-X applicaties

Inhoud

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Inleiding

In dit document worden de installatie-, upgrade- en registratieprocedures van Firepower Threat Defense (FTD) op ASA 555x-X-apparatuur beschreven.

Voorwaarden

Vereisten

Er zijn geen specifieke vereisten van toepassing op dit document.

Gebruikte componenten

De informatie in dit document is gebaseerd op de volgende software- en hardware-versies:

- ASA 5508-X
- ASA 5512-X
- FireSIGHT Management Center (FMC) van 6.0.1 (gebouw 1213)

De informatie in dit document is gebaseerd op de apparaten in een specifieke laboratoriumomgeving. Alle apparaten die in dit document worden beschreven, hadden een opgeschoonde (standaard)configuratie. Als uw netwerk levend is, zorg er dan voor dat u de mogelijke impact van om het even welke opdracht begrijpt.

Achtergrondinformatie

FTD is een uniform softwarebeeld dat op deze platforms kan worden geïnstalleerd:

- ASA 5506-X, ASA 5506W-X, ASA 5506H-X, ASA 5508-X, ASA 5516-X
- ASA 5512-X, ASA 5515-X, ASA 5525-X, ASA 5545-X, ASA 5555-X, ASA 555-X
- FPR4100, FPR9300
- VMware (ESXi)
- Amazon Web Services (AWS)
- KVM
- ISR-routermodule

Het doel van dit document is het aantonen van:

- De installatie van FTD versie 6.0.0 op ASA 5508-X en ASA 5512-X platform
- De upgradeprocedure van FTD van versie 6.0.0 tot 6.0.1
- Registratie en basislicenties voor Firepower Management Center (FMC)

Configureren

Netwerkdiagram



FTD Software Download

Navigatie naar Next-generation firewalls (NGFW) > ASA met FirePOWER Services > ASA 5508-X met FirePOWER Services en selecteer Firepower Threat Defense Software:



Evenzo voor de ASA 5512-X-software.

Task 1. Controleer de voorwaarden

Controleer de vereisten voordat de FTD-installatie wordt geïnstalleerd.

Oplossing:

Voor een FTD-installatie gebruikt u twee afbeeldingen:

- OS-afbeelding (AKA-opstartbeeld) Voor FirePOWER Threat Defense op ASA 5506-X, ASA 5506H-X, ASA 5506W-X, ASA 5508-X, ASA 5516-X is een DBF-bestand. Voor Firepower Threat Defense op Saleen (ASA 5512-X, ASA 5515-X, ASA 5525-X, ASA 5545-X, ASA 5555-X, ASA 5555-X) is een schijfbestand.
- 2. Systeemafbeelding Dit is een .pkg-bestand.

Controleer voordat u doorgaat met de installatie van de FTD dit:

- ASA-flitser moet minimaal 3,1 GBytes (3 GBytes + grootte van bootbeeld) vrije ruimte hebben
- De opstartafbeelding wordt geüpload naar een TFTP-server
- Het systeembeeld wordt geüpload naar een HTTP- of FTP-server
- Op ASA 5506/08/16 is de ROMON tenminste 1.1.8 versie

Controleer de vrije ruimte:

FTD5508X# show flash | i free 7859437568 bytes total (4273819648 bytes free) Controleer deze afbeeldingen:

Bestandsnaam	Beschrijving
	v6.0.1. Firepower Threat Defense-opstartbeeld voor
ftd ctort 0 6 1 0 lfbff	5506/5508/5516.
10-51011-9.0.1.0.11011	Dit is het opstartbeeld voor de schone installatie op
	5506/5508/5516
	v6.0.1 Firepower Threat Defense-boogbeeld voor ASA
ftd start 0.6.1.0 edisk	5512/5515/5525/5545/5555.
110-51011-9.0.1.0.CUISK	Dit is het opstartbeeld voor de schone installatie op
	5512/5515/5525/5545/5555
	v6.0.0 Firepower Threat Defense voor alle ondersteunde
ftd-6,0,0-1005,pkg	ASA's: 5506/5508/5512/5515/5516/5525/5545/5555.
	Dit is het systeembeeld voor een schone installatie

Task 2. upgrade van de ASA 5508-X ROMMON

Zoals het in de vereisten wordt vermeld, moeten de apparaten ASA 5506-X, ASA 5508-X en ASA 5516-X op ROMMON v1.1.8 zijn geïnstalleerd. Als u ASA 5500-firmware-1108.SPA dan niet installeert (beschikbaar in de Cisco ASA downloadpagina).

Taakvereiste:

upgrade ASA 5508-ROMMON van 1.1.1 tot 1.1.8.

Oplossing:

De procedure wordt beschreven in de ASA ROMMON-upgradegids.

Stap 1. Controleer de bestaande ROMMON-versie:

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 ____ _____ **1.1.1** 9.5%2, 5.4.1-211 1 188b.9dle.ca7c to 188b.9dle.ca84 1.0 N/A sfr 188b.9d1e.ca7b to 188b.9d1e.ca7b N/A

Stap 2.Download de ROMMON firmware in ASA's flitser:

Digital signature successfully validated

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

Stap 3. upgrade van het ASA-ROMMON-beeld:

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

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

Digital signature successfully validated

File Name	:	disk0:/asa5500-firmware-1108.SPA
Image type	:	Release
Signer Information		
Common Name	:	abraxas
Organization Unit	:	NCS_Kenton_ASA
Organization Name	:	CiscoSystems
Certificate Serial Number	:	55831CF6
Hash Algorithm	:	SHA2 512
Signature Algorithm	:	2048-bit RSA
Key Version	:	А
Verification successful.		
System config has been modifie	ed	. Save? [Y]es/[N]o: Y
Cryptochecksum: cb47de8a cad3b	57'	73 7fc07212 3e76ef4f

2804 bytes copied in 0.260 secs **Proceed with reload?** [confirm]

*** *** --- START GRACEFUL SHUTDOWN ---*** *** Message to all terminals: ***

*** Performing upgrade on rom-monitor.

Shutting down License Controller Shutting down File system

*** *** --- SHUTDOWN NOW ---*** *** Message to all terminals: ***

*** Performing upgrade on rom-monitor.

Process shutdown finished Rebooting.... INIT: Sending processes the TERM signal Deconfiguring network interfaces... done. Sending all processes the TERM signal... Sending all processes the KILL signal... Deactivating swap... Unmounting local filesystems... Rebooting...

Rom image verified correctly

Cisco Systems ROMMON, Version 1.1.01, RELEASE SOFTWARE Copyright (c) 1994-2014 by Cisco Systems, Inc.

Compiled Mon 10/20/2014 15:59:12.05 by builder

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

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

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 ROMO 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: 0x0000010 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.
/csco_config
 "." is missing. Can't fix this yet.
/csco_config
 "..." is missing. Can't fix this yet.
Starting verification pass.
/csco_config
 "." is missing. Can't fix this yet.
/csco_config
 "..." is missing. Can't fix this yet.
/dev/sdb1: 182 files, 849380/1918808 clusters
dosfsck(/dev/sdb1) returned 0
IO Memory Nodes: 1
IO Memory Per Node: 499122176 bytes
Global Reserve Memory Per Node: 314572800 bytes Nodes=1
Processor memory 3807834603
LCMB: got 499122176 bytes on numa-id=0, phys=0x1b8000000, virt=0x2aaaaae00000
LCMB: HEAP-CACHE POOL got 314572800 bytes on numa-id=0, virt=0x2aaac8a00000
Compiled on Sat 28-Nov-15 00:16 PST by builders
Total NICs found: 13
i354 rev03 Gigabit Ethernet @ irq255 dev 20 index 08 MAC: 188b.9dle.ca7c
ivshmem rev03 Backplane Data Interface @ index 09 MAC: 0000.0001.0002
```

en_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.# index 12 MAC: 0000.0000.0000

Verifiëren:

. . .

U kunt de opdracht Show Module gebruiken om de ROMMON softwareversie te controleren:

FTD55	508X> enable word:			
FTD55	508X# show module			
Mod	Card Type		Model	Serial No.
 1 sfr	ASA 5508-X with FirePOWER service FirePOWER Services Software Modul	es, 8GE, AC, .e	ASA5508 ASA5508	JAD192100SZ JAD192100SZ
Mod	MAC Address Range	Hw Version	Fw Version	Sw Version
1 sfr	188b.9d1e.ca7c to 188b.9d1e.ca84 188b.9d1e.ca7b to 188b.9d1e.ca7b	1.0 N/A	1.1.8 N/A	9.5(2) 5.4.1-211

Task 3. Installeer de FTD Boot Image op ASA 555xx-X

Taakeis:

```
Installeer het FTD-boogbeeld ftd-start-9.6.1.0.lfbff op ASA 5508-X.
```

Oplossing:

Er zijn meer dan één methode om dit te doen. Dit is de eerste:

Methode 1 van ROMMON

Stap 1. Neem de ASA uit en voer de ROMMON-modus in:

```
FTD5508X# reload
Proceed with reload? [confirm]
FTD5508X#
* * *
*** --- START GRACEFUL SHUTDOWN ---
Shutting down isakmp
Shutting down webvpn
Shutting down sw-module
Shutting down License Controller
Shutting down File system
* * *
*** --- SHUTDOWN NOW ---
Process shutdown finished
Rebooting....
INIT: Sending processes the TERM signal
Deconfiguring network interfaces... done.
```

Sending all processes the TERM signal... Sending all processes the KILL signal... Deactivating swap... Unmounting local filesystems... Rebooting... ÿ Rom image verified correctly

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

Current image running: Boot ROM1 Last reset cause: PowerCycleRequest DIMM Slot 0 : Present DIMM Slot 1 : Present

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

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

rommon 1 >

Stap 2. Het configureren van basisnetwerkinstellingen:

```
rommon 1 > ADDRESS=10.62.148.29
rommon 2 > SERVER=10.229.22.42
rommon 3 > GATEWAY=10.62.148.1
rommon 4 > IMAGE=ftd-boot-9.6.1.0.lfbff
rommon 5 > netmask 255.255.255.128
rommon 6 > ping 10.229.22.42
Sending 10, 32-byte ICMP Echoes to 10.229.22.42 timeout is 4 seconds
?!!!!!!!!!
Success rate is 90 percent (9/10)
rommon 7 > sync
rommon 8 > tftpdnld
      ADDRESS: 10.62.148.29
      NETMASK: 255.255.255.128
      GATEWAY: 10.62.148.1
      SERVER: 10.229.22.42
       IMAGE: ftd-boot-9.6.1.0.1fbff
      MACADDR: 18:8b:9d:1e:ca:7c
     VERBOSITY: Progress
       RETRY: 40
     PKTTIMEOUT: 7200
      BLKSIZE: 1460
      CHECKSUM: Yes
       PORT: GbE/1
      PHYMODE: Auto Detect
Receiving ftd-boot-9.6.1.0.1fbff from
10.229.22.42
```

File reception completed. Boot buffer bigbuf=348bd018 Boot image size = 100308208 (0x5fa94f0) bytes 100308208 [image size] 781dde41844d750f8c0db1cd1e1e164f [MD5 signaure] 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 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> Op ASA 5512/15/25/45/55 is de procedure gelijk met alleen verschil in de naam van de opstapafbeelding:

```
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
```

Methode 2. Van ASA modus

Stap 1. Van ASA EXec Mode (geen ROMMON) kopieert het FTD-boogbeeld naar ASA-flitser:

ciscoasa# copy ftp://10.48.40.70/ANG/mzafeiro/ftd-boot-9.6.1.0.1fbff flash Stap 2. Verwijder alle ASA-afbeeldingen van de schijf:

ciscoasa# delete flash:asa* De flitsinhoud nadat u ASA beelden verwijdert:

```
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-sp_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 02:50:28 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-9.6.1.0.1fbff <--Stap 3. Start de ASA opnieuw. De computer start vanaf het FTD-opstartbeeld:

firepower-boot>

Task 4. Installeer de FTD System Image op ASA 555xx-X

Installeer het FTD systeembeeld op ASA 5508-X.

Oplossing

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>

Controleer de connectiviteit met de FTP-server:

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=1.42 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
Installeer de systeemverpakking:

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

Do you want to continue? [y/N] ${\bf y}$ Erasing disk0 ... Verifying

Enter credentials to authenticate with ftp server Username: ftp Password: Verifying Downloading Extracting <-- Here give it some time (~10 min) Package Detail Description: Cisco ASA-NGFW 6.0.0-1005 System Install Requires reboot: Yes Do you want to continue with upgrade? [y]: <-- Press Enter Warning: Please do not interrupt the process or turn off the system. Doing so might leave system in unusable state. Starting upgrade process ... Populating new system image <-- Here give it some time (~5 min) Reboot is required to complete the upgrade. Press 'Enter' to reboot the system. <-- Press Enter Broadcast message from root@firepowStopping OpenBSD Secure Shell server: sshdstopped /usr/sbin/sshd (pid 1963) Stopping Advanced Configuration and Power Interface daemon: stopped /usr/sbin/acpid (pid 1967) acpid: exiting acpid. Stopping system message bus: dbus. Stopping ntpd: stopped process in pidfile '/var/run/ntp.pid' (pid 2055) done Stopping crond: OK Deconfiguring network interfaces... done. Sending all processes the TERM signal... Sending all processes the KILL signal... Deactivating swap... Unmounting local filesystems... Rebooting... ÿ Rom image verified correctly Cisco Systems ROMMON, Version 1.1.8, RELEASE SOFTWARE Copyright (c) 1994-2015 by Cisco Systems, Inc. Compiled Thu 06/18/2015 12:15:56.43 by builders Current image running: Boot ROM1 Last reset cause: PowerCycleRequest DIMM Slot 0 : Present DIMM Slot 1 : Present Platform ASA5508 with 8192 Mbytes of main memory MAC Address: 18:8b:9d:1e:ca:7c Use BREAK or ESC to interrupt boot. Use SPACE to begin boot immediately. Located '.boot_string' @ cluster 186016. # Attempt autoboot: "boot disk0:os.img" Located 'os.img' @ cluster 160001.

LFBFF signature verified. INIT: version 2.88 booting Starting udev Configuring network interfaces... done. Populating dev cache Detected PID ASA5508. Found device serial number JAD192100SZ. Found USB flash drive /dev/sdb Found hard drive(s): /dev/sda fsck from util-linux 2.23.2 dosfsck 2.11, 12 Mar 2005, FAT32, LFN /dev/sdb1: 7 files, 26064/1919063 clusters -----Use ESC to interrupt boot and launch boot CLI. Use SPACE to launch Cisco FTD immediately. Cisco FTD launch in 20 seconds ... Running on kenton Mounting disk partitions ... [OK] Initializing Threat Defense ... 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 successed 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 successed 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 [OK] Executing S01reset_failopen_if [OK] Executing S04fix-httpd.sh Executing S05set-mgmnt-port [OK] Executing S06addusers [OK] [OK] Executing S07uuid-init Executing S09configure_mysql [OK] ********* Attention ********

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

********** Attention ********

Executing	S10database	[OK]
Executing	S12install_infodb	[OK]
Executing	S15set-locale.sh	[OK]
Executing	S16update-sensor.pl	[OK]
Executing	S19cert-tun-init	[OK]
Executing	S20cert-init	[OK]
Executing	S21disable_estreamer	[OK]
Executing	S25create_default_des.pl	[OK]
Executing	S30init_lights_out_mgmt.pl	[OK]
Executing	S40install_default_filters.pl	[OK]
Executing	S42install_default_dashboards.pl	[OK]
Executing	S43install_default_report_templates.pl	[OK]
Executing	S44install_default_app_filters.pl	[OK]
Executing	S45install_default_realms.pl	[OK]
Executing	S47install_default_sandbox_E0.pl	[OK]
Executing	S50install-remediation-modules	[OK]
Executing	S51install_health_policy.pl	[OK]
Executing	S52install_system_policy.pl	[OK]
Executing	S53change_reconciliation_baseline.pl	[OK]
Executing	S70update_sensor_objects.sh	[OK]
Executing	S85patch_history-init	[OK]
Executing	S90banner-init	[OK]
Executing	S95copy-crontab	[OK]
Executing	S96grow_var.sh	[OK]

******** Attention *********

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

********* Attention *********			
Executing S96localize-templates	[OK]
Executing S96ovf-data.pl	[OK]
Executing S97compress-client-resources	[OK]
Executing S97create_platinum_forms.pl	[OK]
Executing S97install_cloud_support.pl	[OK]
Executing S97install_geolocation.pl	[OK]
Executing S97install_ssl_inspection.pl	[OK]
Executing S97update_modprobe.pl	[OK]
Executing S98check-db-integrity.sh	[OK]
Executing S98htaccess-init	[OK]
Executing S99correct_ipmi.pl	[OK]
Executing S99start-system	[OK]
Executing S99z_db_restore	[OK]
Firstboot scripts finished.			
Configuring NTP	[OK]
Model reconfigure detected, executing scripts			
Pinging mysql			
Found mysql is running			
Executing 45update-sensor.pl	[OK]
Executing 55recalculate_arc.pl	[OK]
Starting xinetd:			
Mon Mar 14 18:28:11 UTC 2016			
Starting MySQL			
Pinging mysql			
Pinging mysql, try 1			
Found mysql is running			
Running initializeObjects			
Stopping MySQL			
Killing mysqld with pid 10993			
Wait for mysqld to exit\c			

done Mon Mar 14 18:28:21 UTC 2016 Starting sfifd... [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.9dle.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. 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 : Active/Active perpetual Failover perpetual Encryption-DES : Enabled perpetual Encryption-3DES-AES : Disabled Security Contexts : 2 perpetual GTP/GPRS : Disabled perpetual AnyConnect Premium Peers : 4 perpetual AnyConnect Essentials : Disabled perpetual : 100 Other VPN Peers perpetual Total VPN Peers : 100 perpetual : Disabled perpetual Shared License : Disabled perpetual AnyConnect for Mobile AnyConnect for Cisco VPN Phone : Disabled perpetual Advanced Endpoint Assessment : Disabled perpetual Total UC Proxy Sessions : 320 perpetual Botnet Traffic Filter : Disabled perpetual

: Disabled

perpetual

Cluster

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 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. ... output omitted ... Reading from flash... Cryptochecksum (changed): 6129864f 6298b553 75f279ea e547792b INFO: Power-On Self-Test in process. INFO: Power-On Self-Test complete. INFO: Starting HW-DRBG health test... INFO: HW-DRBG health test passed. INFO: Starting SW-DRBG health test... INFO: SW-DRBG health test passed. Cisco ASA5508-X Threat Defense v6.0.0 (build 1005) firepower login: admin Password: <-- Admin123 You must accept the EULA to continue. Press ... EULA is displayed - output is omitted END USER LICENSE AGREEMENT Please enter 'YES' or press to AGREE to the EULA: System initialization in progress. Please stand by.

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

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

Configuring firewall mode ...

Update policy deployment information - add device configuration

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

When registering the sensor to a Firepower Management Center, a unique alphanumeric registration key is always required. In most cases, to register a sensor to a Firepower Management Center, you must provide the hostname or the IP address along with the registration key. 'configure manager add [hostname | ip address] [registration key]'

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

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

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

Tip: U kunt de optie **voorkomen** om de afbeelding te installeren gebruiken. In dat geval wordt u tijdens de installatie niet gevraagd.

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

Op FTD 6.1.x en hoger wordt u gevraagd naar de beheermodus (lokaal vs afstandsbediening).

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

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

Lokale modus = alleen van toepassing op ASA 555xx-X-apparaten. U beheert de FTD vanaf Firepower Devices Manager (FDM).

Afstandsmodus = U beheert de FTD vanaf FMC

Verificatie

608	3]
:	Cisco ASA5508-X Threat Defense (75) Version 6.0.0 (Build 1005)
:	8c3f4b7e-ea11-11e5-94f1-f3a55afb51a3
:	2015-10-01-001-vrt
:	252
	08 : : :

>

De installatie van het systeembeeld op ASA 5512/15/25/45/55 is hetzelfde als hierboven.

Task 5. Registreer de FTD aan FMC

FTD aan FMC-server registreren de volgende instellingen gebruiken:

Host	10.62.148.29
Naam weergeven	FTD5508
Registratiekanaal	Cisco
Groep geen	
Toegangsbeheerbeleid	FTD5508
Basisbeleid voor toegangscontrole	None
Standaardactie voor toegangsbeleid	Alle verkeer blokkeren

Oplossing

Stap 1.Specificeer op FTD de FMC-server:

```
> 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
                        : pending
Registration
RPC Status
                       :
Type
                       : Manager
Host
                       : 10.62.148.73
Registration
                       : Pending
```

>

Stap 2.Voordat u de FTD toevoegt, moet u het FMC registreren bij de Smart Licensing Server. Als u een FTD-apparaat probeert toe te voegen zonder Smart Licentie, krijgt u de volgende fout:



U kunt de evaluatiemodus kiezen. U kunt deze software gedurende 90 dagen gebruiken zonder functies die een sterke versleuteling vereisen (bijvoorbeeld VPN).

Overview	Analysis	Policies	Devices	Objects	AMP					Deploy	/ 0 5	iystem Help 🔻	admin v
			с	Configuration	Users	Domains	Integration	Updates	Licenses +	Smart Licenses	Health •	Monitoring •	Tools •
Wel Befor from	Icome to S re you use Si Gisco Smart	Smart Licens mart Licens t Software I	censes es, obtain a Manager, th	a registration t ien click Regist	token ter	Regis	ter	Evaluation Mode					
Usage Au	thorization:												
Product R	tegistration:		Unreg	istered									
Assigned	Virtual Account	it:											
Export-Co	ontrolled Featu	res:											

Evaluation Mode	
You are about to start your evaluation period. Evaluation period	
is a one time 90 day period in which you will be able to explore your Cisco products full functionality. When evaluation mode ends, you will have to register with the Smart Licensing Cloud to continue to use your product. Do you wish to begin your evaluation period now?	
Yes	

Overview Analysis Policies De	evices Objects	AMP				Depk	y O	System	Help 🔻	admin 🔻
	Configu	ration Users	Domains	Integration	Updates Li	censes • Smart Licenses	Health	 Mo 	nitoring •	Tools
Welcome to Smart Licen	ses									
Before you use Smart Licenses, o from Cisco Smart Software Mana	obtain a registration ager, then click Regi	token	Register							
Smart License Status			2	sco Smart Softwa	re Manager					
Usage Authorization:	N/A					_				
Product Registration:	Evaluation Period (E	xpires in 89 days)								
Assigned Virtual Account:	Evaluation Mode									
Export-Controlled Features:	Enabled									
Smart Licenses						Filter Devices		×	Edit Lice	nses
License Type/Device Name			License S	tatus	Device Type	Der	nain	Gre	ыр	
Base (0)										
Mahware (0)										
Threat (0)										
URL Filtering (0)										

Stap 3. Op FMC moet u eerst het toegangscontrolemiddel definiëren dat door FTD zal worden gebruikt. Navigeer naar **beleid > Toegangsbeheer** en selecteer **Nieuw beleid**:

Overview	Analysis Policies	
Access Contro	Network Disco	
Access Contro		
	Deploy 🥝 System Help 🔻 admin 🔻	
Object Manager	ment Intrusion Network Analysis Policy DNS Import/Export	
	New Policy	
New Policy		?
Name:	FTD5508	
Description:		
Select Base Policy:	None	
Default Action:	Block all traffic O Intrusion Prevention O Network Discovery	
Targeted Devices		

Voeg vervolgens het FTD-apparaat toe:

Overview Analysis	Policies Devices Obj	ects AMP			Deploy 0, 5	ystem Help 🔻 admin 🔻
Device Management	NAT VPN Platform S	Settings				
					By Group	▼ 🗿 Add •
Name			Model	License Type	Access Control Policy	Add Device
Ungrouped (0)						 Add High Availability Add Stack
						Add Cluster Add Group

Add Device			? X	<
Host:	10.62.148.29			
Display Name:	FTD5508			
Registration Key:	cisco	1		
Group:	None		~	
Access Control Policy:	FTD5508		~	
Smart Licensing				
Malware:				
Threat:				
URL Filtering:	⊻ ∠			
- V Advanced				
On version 5.4 devices specified from licensing	ces or earlier, the li page.	icensing options will need to	be	
	3	Register Car	ncel	

Aan het einde van de FTD-toevoeging wordt een beleid toegepast:



Om te controleren wat er op de achtergrond gebeurt bij het toevoegen van het FTD-apparaat, kan **u** zowel op het VCC als op het FTD een **vlekje** plaatsen.

Op FMC:

Op FTD:

> pigtail

Opmerking: Als de FTD Management Interface status is verminderd, zorg er dan voor dat de conversiewaarde 0x1 is.

Task 6. upgrade van de FTD

Bij deze taakupgrade van 6.0.0 naar 6.0.1.

	Versie	Bestandsnaam
Eerste FTD-afbeelding	Versie 6.0.0 (gebouwd 1005)	ftd-6,0,0-1005,pkg
Target FTD-afbeelding	versie 6.0.1 (gebouwd 1213)	Cisco_FTD_Upgrade-6.0.1-1213.sh

Oplossing

Stap 1. Upload het FTD-beeld naar FMC:



Product Updates	Rule Updates	Geolocation Updates	
		c	urrently running software version: 6.0.1
		Update	S
		Upload so	ftware updates and patches here.
		Package	Browse No file selected.

Stap 2. Installeer het FTD-beeld:

Overview	Analysis	Policies	Devices	Objects	AMP			Depk	y 🛛	System	Help 🔻	admin 🔻
		Conf	iguration	Users	Domains	Integration	Updates	Licenses v	Healt	h▼ Mo	nitoring 🔻	Tools •
Product U	pdates	Rule Upd	lates (ieolocation	Updates							
											🔾 Uploa	d Update
				Task Messa Source GeoB Wed M	Notificati ge Center Tar fre GeoLocat -2016-03-05- lar 23 11:52: Successfully Database	on sks Tab Your task tion Database Upd 001 (Local Install 57 2016 r installed the Geo	Installing late version:) succeeded at location	×				
				Succ Upload	ess succeeded			×				
Currently runni	ng software	version: 6.0.	1									
Updates												
Туре		Ve	rsion	Date				Release No	otes	Re	boot	
Cisco FTD Up	grade	6.0	.1-1213	Sat M	ar 19 01:41:1	15 UTC 2016				Ye	5	14 6



Er wordt een waarschuwing weergegeven over de herlading van FTD:

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

De upgrade in dit geval duurde ongeveer 35 minuten. Zoals hieronder wordt getoond, moet het beleid opnieuw worden toegepast:

AMP	Deploy	System	Help 🔻	admi	in v
Deployments Health Tasks				•	?
(1 total) 0 waiting 0 running	0 retrying 1 success	0 failures			
✓ Remote Install			35	m 22s	×
Apply to 5508x.cisco.com. Please reapply policies to you	r managed devices.				

U implementeert het beleid:

Dep	oy Policies Version:2016-03-23 06:43 PM		×
V	Device	Group	Current Version
♥ ▪	FTD5508		2016-03-23 06:43 PM
		6	
5	Selected devices: 1	-	Deploy Cancel

>

Task 7. Connect en Detectie vanuit LINA Engine CLI-modus

Voer de LINA CLI-modus in en koppel het los.

Oplossing

Typ de volgende opdracht in FTD CLISH-modus:

> 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#</pre>

Zoals in het bovenstaande bericht wordt vermeld, moet u het HDTV-console van het type CTRL + a loskoppelen (verwijderen) en vervolgens op D drukken:

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

Task 8. Zoek een bestaande FTD-installatie

Vereisten

De bestaande FTD-afbeelding opslaan en installeren, versie 6.1.0-30

Oplossing

Bij deze taak wordt ervan uitgegaan dat er een FTD-apparaat met code 6.0.1.x bestaat en om welke redenen dan ook dat het apparaat moet worden aangepast (bv. onherstelbare corruptie in databases, een catastrofaal defect dat geen softwareupgrade mogelijk maakt, enz.).

Samenvatting van stappen

- 1. Compatibiliteitscontrole.
- 2. Registratie FTD van VCC ongedaan maken.
- 3. Zet het FTD-apparaat terug en voer de BootCLI in.
- 4. Start de setup-wizard.
- 5. Installeer de FTD System-afbeelding.
- 6. Registreer FTD in het VCC.

Gedetailleerde stappen

•••

Stap 1. Controleer de FirePOWER-opmerkingen en zorg ervoor dat het FTD-beeld dat u wilt gebruiken compatibel is met het FMC. Als u het VCC niet eerst verbetert.

Stap 2. Registreer (verwijder) FTD van het VCC. Deze stap is nodig sinds de FTD zijn UID herafbeelding herstelt en kan niet opnieuw worden geregistreerd, maar moet vanaf de schrammeling worden toegevoegd.

Stap 3. Neem het FTD-apparaat weer in en voer de BootCLI in. Aangezien er al een bestaand FTD-beeld is geïnstalleerd, kan de installatie van het FTD Boot-beeld worden overgeslagen:

> reboot			
This command will reboot the system. Continue?			
Please enter 'YES' or 'NO': YES			
Broadcast messagStopping Cisco ASA5506-X Threat Defenseok			
Shutting down sfifd	[OK]
Clearing static routes			
Unconfiguring default route	[OK]
Unconfiguring address on br1	[OK]
Unconfiguring IPv6	[OK]
Downing interface	[OK]
Stopping nscd	[OK]
Stopping system log daemon	[OK]
Stopping Threat Defense			
cp: cannot stat '/etc/ssh': No such file or directory			
Stopping system message bus: dbus.			
rmdir: failed to remove directory '/etc': Directory not empty	[OK]
Un-mounting disk partitions			

Device root is still in use. mdadm: Cannot get exclusive access to /dev/md0:Perhaps a running process, mounted filesystem or active volume group? Stopping OpenBSD Secure Shell server: sshdstopped /usr/sbin/sshd (pid 4209) Stopping Advanced Configuration and Power Interface daemon: stopped /usr/sbin/acpid (pid 4213) acpid: exiting acpid. Stopping system message bus: dbus. Deconfiguring network interfaces... ifdown: interface br1 not configured done. Sending all processes the TERM signal... Sending all processes the KILL signal... Deactivating swap... Unmounting local filesystems... Rebooting... ÿ Rom image verified correctly Cisco Systems ROMMON, Version 1.1.8, RELEASE SOFTWARE Copyright (c) 1994-2015 by Cisco Systems, Inc. Compiled Thu 06/18/2015 12:15:56.43 by builders Current image running: Boot ROMO Last reset cause: PowerCycleRequest DIMM Slot 0 : Present Platform ASA5506 with 4096 Mbytes of main memory MAC Address: 84:3d:c6:1a:cf:39 Use BREAK or ESC to interrupt boot. Use SPACE to begin boot immediately. Located '.boot_string' @ cluster 260275. # Attempt autoboot: "boot disk0:" Located 'os.img' @ cluster 235457. ***** ***** ***** ****** ****** ****** ***** ***** ***** ***** LFBFF signature verified. INIT: version 2.88 booting Starting udev Configuring network interfaces... done. Populating dev cache Detected PID ASA5506. Found device serial number JAD2034008E. Found USB flash drive /dev/sdb Found hard drive(s): /dev/sda fsck from util-linux 2.23.2

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

```
_____
Use ESC to interrupt boot and launch boot CLI.
Use SPACE to launch Cisco FTD immediately.
                                               < Press ESC to enter BootCLI
Cisco FTD launch in 23 seconds ...
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>

Stap 4.Draai de wizard en stel de fundamentele netwerkparameters in:

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>
```

Stap 5.Controleer de connectiviteit met de server (FTP, HTTP enz.) die het FTD systeembeeld bevat en start de installatie:

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

Do you want to continue? [y/N] **y** Erasing disk0 ... Verifying Downloading Extracting Package Detail Cisco ASA-FTD 6.1.0-330 System Install Description: 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 [OK] Executing S01reset_failopen_if [OK] Executing S01virtual-machine-reconfigure Executing S02aws-pull-cfg [OK 1 Executing S02configure_onbox [OK] [OK] Executing S04fix-httpd.sh Executing S05set-mgmnt-port [OK] Executing S06addusers [OK] Executing S07uuid-init [OK] [OK] Executing S08configure_mysql ********** Attention ******** Initializing the configuration database. Depending on available system resources (CPU, memory, and disk), this may take 30 minutes or more to complete. ********* Attention ******** [OK] Executing S09database-init 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 1 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 Γ OK 1 Executing S45install_default_realms.pl [OK 1 Executing S47install_default_sandbox_E0.pl [OK] Executing S50install-remediation-modules [OK] Executing S51install_health_policy.pl [OK] Executing S52install_system_policy.pl [OK] Executing S53change_reconciliation_baseline.pl [OK] Executing S70remove_casuser.pl [OK 1 [OK] Executing S70update_sensor_objects.sh Executing S85patch_history-init [OK] Executing S90banner-init [OK] Executing S95copy-crontab [OK] [OK] Executing S96grow_var.sh [OK] Executing S96install_vmware_tools.pl

******** 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 ********* [OK] Executing S96localize-templates 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 1 [OK] Executing S97install_ssl_inspection.pl Executing S97update_modprobe.pl [OK] Executing S98check-db-integrity.sh [OK] Executing S98htaccess-init [OK] [OK] Executing S98is-sru-finished.sh Executing S99correct_ipmi.pl [OK] Executing S99start-system Γ OK 1 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] [OK] Executing 55recalculate_arc.pl Starting xinetd: Sat Jan 14 12:07:35 UTC 2017 Starting MySQL... Pinging mysgl Pinging mysql, try 1 Pinging mysql, try 2 Found mysql is running Running initializeObjects... Stopping MySQL... Killing mysqld with pid 22354 Wait for mysgld to exit\c done Sat Jan 14 12:07:57 UTC 2017 Starting sfifd... [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]: 255.255.128 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.

Stap 6. Registreer FTD in het VCC

> 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.

:	10.62.148.50
:	* * * *
:	pending
:	
	: : :

Op FMC navigeer naar Apparaten > Apparaatbeheer om het FTD apparaat toe te voegen.

Nadat u FTD in FMC hebt toegevoegd, dient u:

Configureer de instellingen van het apparaat zoals interfaces en routing

- Beleid zoals VPN en QoS hervormen
- Pas het eerder toegepaste beleid en de eerder toegepaste instellingen zoals het beleid van de Toegangscontrole, NAT en de Instellingen van het platform opnieuw toe

Gerelateerde informatie

- Installatie- en upgrade-handleidingen
- <u>Afbeelding van Cisco ASA of FirePOWER Threat Defense-apparaat</u>
- <u>Technische ondersteuning en documentatie Cisco Systems</u>