# De Secure Firewall Migration Tool voor ASA Migratie configureren

### Inhoud

Inleiding Voorwaarden Vereisten Gebruikte componenten Achtergrondinformatie Configureren Netwerkdiagram Configuratiestappen Problemen oplossen

### Inleiding

Dit document beschrijft de procedure om Cisco adaptieve security applicatie (ASA) te migreren naar Cisco Firepower.

Bijgedragen door Ricardo Vera, Cisco TAC Engineer.

### Voorwaarden

#### Vereisten

Cisco raadt u aan kennis te hebben van Cisco Firewall Threat Defence (FTD) en Adaptieve Security Applicatie (ASA).

#### Gebruikte componenten

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

- Windows PC met Firepower Migration Tool (FMT) v3.0.1
- Adaptieve security applicatie (ASA) v9.16.1
- Secure Firewall Management Center (FMCv) v7.0.1
- Secure Firewall Threat Defense Virtual (FTDv) v7.0.1

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 live is, moet u zorgen dat u de potentiële impact van elke opdracht begrijpt.

#### Achtergrondinformatie

Specifieke eisen voor dit document zijn:

- Cisco adaptieve security applicatie (ASA) versie 8.4 of hoger
- Secure Firewall Management Center (FMCv) versie 6.2.3 of hoger

De Firewall Migration Tool ondersteunt deze lijst met apparaten:

- Cisco ASA (8,4+)
- Cisco ASA (9.2.2+) met FPS
- Controlepunt (r75-r77)
- Controlepunt (r80)
- Fortinet (5,0+)
- Palo Alto-netwerken (6.1+)

Voordat u doorgaat met de migratie, moet u rekening houden met de <u>Richtlijnen en Beperkingen</u> voor de Firewall Migration Tool.

## Configureren

Netwerkdiagram



Configuratiestappen

1. Download de meest recente Firepower Migration Tool van Cisco Software Central:



#### Software Download

Q Search		Secure Firewall Threat Defense \	/irtual		
Expand All Collapse Latest Release 3.0.1	All	Release 3.0.1	Related Links a Open Source Release Notes for 3 Install and Upgrade	and Documentation 0.1 Guides	
2.5.3					
All Release	~	File Information	Release Date	Size	
3 2	>	The extractor will be used to extract checkpoint device-specific configurations which will be used as an input to Firepower Migration Tool. FMT-OP-Config-Extractor_v3.0.1-7373.exe Advisories	10-Aug-2022	9.83 MB	+ \ <del>`</del>
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		Firepower Migration Tool 3.0.1 for Windows Firepower_Migration_Tool_v3.0.1-7373.exe Advisories 😭	10-Aug-2022	35.42 MB	<u>+</u> \;

#### 2. Klik op het bestand dat u eerder naar uw computer hebt gedownload.

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Opmerking: Het programma wordt automatisch geopend en een console-auto genereert inhoud in de map waarin u het bestand hebt uitgevoerd.

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3. Nadat u het programma hebt uitgevoerd, wordt er een webbrowser geopend die de 'Gebruiksrechtovereenkomst' weergeeft. Vink het aanvinkvakje aan om de voorwaarden te aanvaarden.Klik op **Doorgaan.** 



4. Log in op het migratietool. U kunt inloggen met de CCO-account of met de lokale standaardaccount. Lokale standaard accountreferenties zijn: admin/Admin123



5. Selecteer de te migreren bronfirewall. In dit voorbeeld wordt Cisco ASA (8.4+) gebruikt als bron.



6. Selecteer de extractiemethode die gebruikt moet worden om de configuratie te verkrijgen. Handmatig uploaden vereist dat u de Running Config bestand van de ASA in ".cfg"- of ".txt"formaat.Verbind met de ASA om configuraties rechtstreeks uit de firewall te halen.

	Extract A SA information	2 Select Target	3 4 Map PTD Interface Map Security Zones & Interface Ontypes	5 Optimize, Review & Validate	6 Complete Migration	
Extract Cisco AS	A (8.4+) Information	0				Source: Cisco ASA (8.4
Extraction Methods						~
File format is ' cfg' o     For Multi-context up For Single-context u     Do not upload hance	Manual Upload r1bt7; koad a show tech, pload show running, coded configurations.		Connect to ASA Enter the management IP address and connect using address redentials. IP format should be: «IP-Port». AIP Address/Hostname 92:168.1.20 Connect			
Context Selection						>
Parsed Summary						>

Opmerking: Sluit bijvoorbeeld rechtstreeks aan op de ASA.

7. Een samenvatting van de configuratie gevonden op de firewall wordt weergegeven als een dashboard, klik op **Volgende**.

Back

cisco Firewa	all Migration Tool					000
	Extract Cisco ASA (8.4+) Ir	formation 💿	· ·		Source: Cisco ASA (8	3.4+)
	Extraction Methods					>
	ASA IP Address: 192.168.1.20					
	Context Selection					>
	Single Context Mode: Download config					
	Parsed Summary					$\sim$
	Collect Hitcounts: No					
	8	2	0	0	0	
	Access Control List Lines	Access List Objects (Standard, Extended used in BGP:RAVPN/EIGRP)	Network Objects	Port Objects	Dynamic-Route Objects (AS-Path, Community-List, Policy-List, Pretio-List, Route-Map)	
	0	1	1	0	0	
	Network Address Translation	Logical Interfaces	Routes	Site-to-Site VPN Tunnels	Remote Access VPN (Connection Profiles)	
	Pre-migration report will be available after	selecting the targets.				
						_

8. Selecteer het beoogde VCC dat bij de migratie moet worden gebruikt. Verstrek de IP van het Het opent een pop-upvenster waarin u wordt gevraagd om de inlogreferenties van VCC. het VCC.

https://cieco.com

cisco Firewa	II Migration Tool		000
	Select Target ()	Source: Cisco ASA (8.4+)	
	Firewall Management	×	
	On-Prem/Virtual FMC	Cloud-delivered FMC	
	FMC IP Address/Hostname 192.168.1.18		
	Connect		
	1 FTD(s) Found		
	Proceed		
	Successfully connected to FMC		
	Choose FTD	>	
	Select Features	>	
	Rule Conversion/ Process Config	>	

9. (Optioneel) Selecteer de gewenste FTD. Als u ervoor kiest om naar een FTD te migreren, selecteert u de FTD die u wilt gebruiken. Als u geen FTD wilt gebruiken, kunt u het aankruisvakje invullen Proceed without FTD

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Firewall Management  FMC IP Address/Hostname: 192.168.1.18  Choose FTD  Select FTD Device  Proceed without FTD  Proceed  Choose FTD  Choo
FMC IP Address/Hostname:       192.168.1.18         Choose FTD <ul> <li>Proceed without FTD</li> <li>Proceed without FTD</li> <li>Proceed without FTD device on the FMC is erased when you push the migrated configuration to the FMC.</li> </ul> Proceed
Choose FTD  Select FTD Device FTD (192:168.1.17) - VMWare (Native)  Proceed without FTD  Proceed without FTD  Proceed  Rease ensure that the firewall mode configured on the target FTD device is the same as in the uploaded ASA configuration file. The existing configuration of the FTD device on the FMC is erased when you push the migrated configuration to the FMC.  Proceed  Select Features  Select Features  Select Features  Select For Seconds  Select Features  S
Select FTD Device  FTD (192:168.1.17) - VMWare (Native)  Proceed  Proceed  Rease ensure that the firewalt mode configured on the target FTD device is the same as in the uploaded ASA configuration file. The existing configuration of the FTD device on the FMC is erased when you push the migrated configuration to the FMC.  Proceed  Select Features  Sulfa Conversion/ Proceess Config
Please ensure that the firewall mode configured on the target FTD device is the same as in the uploaded ASA configuration file. The existing configuration of the FTD device on the FMC is erased when you push the migrated configuration to the FMC.      Proceed      Select Features      Jule Conversion/ Process Config
Select Features
Rule Conversion/ Process Config
/

10. Selecteer de configuraties die u wilt migreren, de opties worden weergegeven in de screenshots.

cisco	Firewa	all Migration Tool			000
		Select Target ()		Source: Cisco ASA (8.4+)	
		Firewall Management		>	
		FMC IP Address/Hostname: 192.168.1.18			
		Choose FTD		>	
		Selected FTD: FTD			
		Select Features		~	
		Device Configuration	Shared Configuration	Optimization	
		V Interfaces	Access Control	Migrate Only Referenced Objects	
		Routes	Populate destination security zones	Object Group Search 🕕	
		Static	Route-lookup logic is limited to Static Routes and Connected Routes. PBR, Dynamic-Routes & NAT are not considered.	Inline Grouping	
		EIGRP	✓ Migrate tunnelled rules as Prefilter	CSM/ASDM	
		Site-to-Site VPN Tunneis (no data)	NAT (no data)		
		Policy Based (Crypto Map)	Network Objects (no data)		
		Route Based (VTI)	Port Objects (no data)		
			Access List Objects(Standard, Extended)		
			Time based Objects (no data)		
			Remote Access VPN		
			A Remote Access VPN migration is supported on FMC/FTD 7.2 and above.		
		Proceed			
				Back	

11. Start de conversie van de configuraties van ASA naar FTD.

Back Next

	1 Extract ASA Information	2 Select Target	3 Map FTD Interface	4 Map Security Zones & Interface Groups	5 Optimize, Review & Validate	6 Complete Migration	
Select Target 💿				^			Source: Cisco ASA (8.4+)
Firewall Management							>
FMC IP Address/Hostnam	192.168.1.18						
Choose FTD							>
Selected FTD: FTD							
Select Features							>
Rule Conversion/ Proce	ss Config						~
Start Conversion							

12. Wanneer de conversie is voltooid, wordt een dashboard weergegeven met een overzicht van de te migreren objecten (beperkt tot compatibiliteit). U kunt optioneel op klikken Download Report om een samenvatting te ontvangen van de configuraties die worden gemigreerd.

5				
Firewall Management				
FMC IP Address/Hostname: 192.168.	1.18			
Choose FTD				
Selected FTD: FTD				
Select Features				
Rule Conversion/ Process Config				
Start Conversion				
0 parsing errors found. Refer to the pre-n	nigration report for more details.			
Please download the Pre-Migration repor	t for a detailed summary of the parsed configuration	n. Download Report		
Please download the Pre-Migration report	t for a detailed summary of the parsed configuration	n. Download Report	0	0
Please download the Pre-Migration report	t for a detailed summary of the parsed configuration	n. Download Report	0 Port Objects	0 Dynamic-Route Objects
Please download the Pre-Migration report	t for a detailed summary of the parsed configuration O Access List Objects (Standard, Extended used in BOPRAVPIVEDORP)	n. Download Report	0 Port Objects	O Dynamic-Route Objects (AS-Path, Community-List, Policy-List, Prefic-List, Route-Map)
Please download the Pre-Migration report O Access Control List Lines O	t for a detailed summary of the parsed configuration 0 Access List Objects (Standard, Extended used in BOP:RAVPINEUGRP) 1	n. Download Report	0 Port Objects 0	0 Dynamic-Route Objects (AS-Path, Community-List, Policy-List, Prefix-List, Route-Map) 0

Voorbeeld van een pre-migratierapport, zoals in de afbeelding:

c	sco Pre-Migration Report		
Note: Defen	Review all contents of this pre-migration report carefully. Unsupported rules will not be migrated completely, which can pe as after the configuration is moreoutfully migrated.	steatially alter your original configuration, restrict some traffic, or permit unwanted traffic. We recomme	nd that you update the related rules and policies in Firepower M
1.0	Overall Summary:		
A su	mmary of the supported ASA configuration elements that can be successfully migrated to Firepower Thre	at Defense.	
	Collection Method	Connect ASA	
	ASA Configuration Name	asalive_ciscoasa_2022-08-19_02-04-31.txt	
	ASA Firewall Context Mode Detected	single	
	ASA Version	9.16(1)	
	ASA Hostname	Not Available	
	ASA Device Model	ASAv, 2048 MB RAM, CPU Xeon 4100/6100/8100 series 2200 MHz	
	Hit Count Feature	No	
	IP SLA Monitor	0	
	Total Extended ACEs	0	
	ACEs Migratable	0	
	Site to Site VPN Tunnels	0	

On-Prem FMC

FMC Type

Logical Interfaces
Network Objects and Groups

### 13. Breng de ASA interfaces met de FTD interfaces in kaart via de Migration Tool.

cisco	Firewa	all Migration Tool		_	0 0	Θ
		Map FTD Interface 🕕	· ·		Source: Cisco ASA (8.4+) Target FTD: FTD	
				Refresh		
		ASA Interface Name	FTD Interface Name			
		Management0/0	GigabitEthernet0/0			
		20 v perpage 11010f1 4 4 Page 1 of1 ⊨ ⊨				
					Back Next	

#### 14. De security zones en interfacegroepen voor de interfaces op de FTD maken

10 v per page 1 to 1 of 1 |4 4 Page 1 of 1 >> >>

Firewall Migration Tool								
	Map Security Zones and Interface Groups ()						Source: Cisco ASA (8.4+) Target FTD: FTD	
				Add SZ & IG Auto	o-Create			
	ASA Logical Interface Name	FTD Interface	FMC Security Zones		FMC Interface Groups			
	management	GigabitEthernet0/0	Select Security Zone	¥	Select Interface Groups	v		

Security Zones (SZ) en Interfacegroepen (IG) worden automatisch door het gereedschap gemaakt, zoals in de afbeelding:

cisco	Firewall Migration Tool						<b>9 0 9</b>
		1		0	5	6	
		Extract ASA Information	Select Target Map FTD Inte	rtace Map Security Zones & Interface Group	ps Optimize, Review & Validate	Complete Migration	
	Map Security Zone	es and Interface Groups	)	( Add 3	SZ & IG Auto-Create	Target FTD: FTD	
	ASA Logical Interface Na	me FTD Interface	FMC Security 2	Cones FMC Inter	face Groups		
	management	GigabitEthernet0/0	management	✓ management_	Jg (A) 🗸		
	10 v per page 1 to 1	of 1   4 4 Page 1 of 1 ⊫	▶]				
						Back	Next

15. Bekijk en valideer de configuraties die op de Migration Tool moeten worden gemigreerd. Als u de configuraties al hebt beoordeeld en geoptimaliseerd, klikt u op Validate.

Back Next

Access Control     Objects     NAT     Interfaces     Routes     State     Port       Access List Objects     Network Objects     Port Objects     VPN Objects     Dynamic-Route Objects       Select all 1 entries     Selected 0/1     Access     Cancel     Cancel       Image: FTD:     FTD:     FTD:     FTD:
Access Control Objects NAT Interfaces Routes State to State VPN Turnets Route Objects VPN Objects Dynamic-Route Objects Access List Objects Network Objects Port Objects VPN Objects Dynamic-Route Objects Select all 1 entries Selected 0/1 Access List Objects Conce  Validation State Q Validation State Validation State
Access List Objects     Network Objects     Port Objects     UPN Objects     Dynamic-Route Objects       Select all 1 entries     Selected 0/1     Access List Objects     Type       Name     Validation State     Type       Q     Q     Q
Select all 1 entries     Selected 0/1     Actions -     Search       Image: Select all 1 entries     Select all 1 entries     Search       Image: Select all 1 entries     Name     Validation State     Type       Image: Select all 1 entries     Validation State     Type     Value       Image: Select all 1 entries     Q     Q     Q
Image: Name         Validation State         Type         Value           Q         Q         Q         Q         Q
Construction of the second distance of the se
1 00-192.100.1.1 WILDO CRAINO IN PINC WRINKIK COJICL 192.100.1.1

Note: Populate the areas highlighted in Yellow in EIGRP, Site to Site and Remote Access VPN sections to validate and proceed with migration.

#### 16. Als de validatiestatus succesvol is, duw dan de configuraties naar de doelapparaten.

					~		
Extract ASP		Va	lidation Statu	S		Mgration	
Optimize, Review and Val		$\odot$	Successfully Validate	đ		urce: Cisco ASA (8.4+)	
Access Control 🗸 Objects 🗸 NAT 🗸	Validation Summary (Pre-	push)				gerend: PTD	
Access List Objects V Nctwork Objects C Select all 1 entries Selected: 0 / 1	0		1			Search	÷
R Name     Q	Access Control List Lines		Network Objects				
		1	1				
		Logical Interfaces	Routes				
	O Note: T	The configuration on the target F	TD device FTD (192.168.1.17	) will be overwritten as part of th	is migration.		
			Push Configuration				
page 1to1of1 [< < Page 1 of1 ▶ ▶]			_		_		

Voorbeeld van configuratie die door het migratietool wordt gedrukt, zoals in de afbeelding:

Validate

cisco Firewall Migration Tool			000
(1) Extract ASA Information Solidar Target	PUSHING	Complete Myroten	
Complete Migration ③ Migration Status	25% Complete Push In progress. Refer FMT Terminal to monitor the migration status.	Source: Cisco ASA (8.4+) Target FTD: FTD	
Interfaces			
Network Objects			
Access Control Policies			
Please download the Post-Push migration report for a detailed summary.			

Voorbeeld van een geslaagde migratie, zoals in de afbeelding:

Cisco Firewall Migration Tool					000
Constat	1)2 A Information Select Target	3 Map FTD Interface Map Securit	4 5 Zones & Interface Groups Optimize, Review & Validate	Complete Migration	
Complete Migration 🕠				Source: Cisco ASA (8.4+) Target FTD: FTD	
Migration Status			Optimization Status		
Migration is complete, policy is push Next Step - Login to FMC to deploy	ed to FMC. the policy to FTD.		ACL Optimization is not applied	d for this migration.	
Live Connect: asaconfig bd Selected Context: Single Context Mode					
Migration Summary (Post Push)					
0		1			
Access Control List Lines		Network Objects			
	1	1			
	Logical Interfaces	Routes			
Disass decodered the Bask Dock science in an				Mau Machice	_

17. *(Optioneel)* Als u ervoor hebt gekozen om de configuratie naar een FTD te migreren, dient u de beschikbare configuratie van het FMC naar de firewall te verplaatsen om de configuratie te kunnen implementeren: Log in op de GUI van het VCC.Naar het Deploy tabblad.Selecteer de implementatie om de configuratie naar de firewall te duwen.Klik Deploy.

cisco	Firepower Management Center o, Overview Analysis Policies Deploy / Deployment	Devices Objects AMP	Intelligence		D	sploy 🔮 🌣 🔕 admin 🔻
						Deploy
Q Se	rch using device name, type, domain, group or status					
	Device	Inspect Interruption	Туре G	iroup Last Deploy Time	Preview Status	
~	FTD		FTD	8/13/2022, 6:01:52 PM	E. Pend	ling
:=	v Device Configurations					
•	Interface Policy					
	Advanced Settings					
	IPv4 Static Route Policy					

## Problemen oplossen

Deze sectie bevat informatie waarmee u problemen met de configuratie kunt oplossen.

Controleer de logbestanden in de map waarin het bestand Firepower Migration Tool is geplaatst, bijvoorbeeld:

Firepower\_Migration\_Tool\_v3.0.1-7373.exe/logs/log\_2022-08-18-21-24-46.log

#### Over deze vertaling

Cisco heeft dit document vertaald via een combinatie van machine- en menselijke technologie om onze gebruikers wereldwijd ondersteuningscontent te bieden in hun eigen taal. Houd er rekening mee dat zelfs de beste machinevertaling niet net zo nauwkeurig is als die van een professionele vertaler. Cisco Systems, Inc. is niet aansprakelijk voor de nauwkeurigheid van deze vertalingen en raadt aan altijd het oorspronkelijke Engelstalige document (link) te raadplegen.