# Konfigurieren des Secure Firewall Migration-Tools für die ASA-Migration

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# Einleitung

In diesem Dokument wird das Verfahren zur Migration der Cisco Adaptive Security Appliance (ASA) auf Cisco FirePOWER beschrieben.

Beitrag von Ricardo Vera, Cisco TAC Engineer.

### Voraussetzungen

### Anforderungen

Cisco empfiehlt, dass Sie über Kenntnisse der Cisco Firewalls Threat Defense (FTD) und Adaptive Security Appliance (ASA) verfügen.

### Verwendete Komponenten

Die Informationen in diesem Dokument basierend auf folgenden Software- und Hardware-Versionen:

- Windows PC mit FirePOWER Migration Tool (FMT) v3.0.1
- Adaptive Security Appliance (ASA) v9.16.1
- Secure Firewall Management Center (FMCv) v7.0.1
- Secure Firewall Threat Defense Virtual (FTDv) v7.0.1

Die Informationen in diesem Dokument beziehen sich auf Geräte in einer speziell eingerichteten Testumgebung. Alle Geräte, die in diesem Dokument benutzt wurden, begannen mit einer gelöschten (Nichterfüllungs) Konfiguration. Wenn Ihr Netzwerk in Betrieb ist, stellen Sie sicher, dass Sie die möglichen Auswirkungen aller Befehle verstehen.

Hintergrundinformationen

Spezifische Anforderungen für dieses Dokument:

- Cisco Adaptive Security Appliance (ASA) Version 8.4 oder höher
- Secure Firewall Management Center (FMCv) Version 6.2.3 oder höher

Das Firewall Migration-Tool unterstützt diese Liste von Geräten:

- Cisco ASA (8,4+)
- Cisco ASA (9.2.2+) mit FPS
- Prüfpunkt (r75-r77)
- Prüfpunkt (r80)
- Fortinet (5,0+)
- Palo Alto Networks (6.1+)

Bevor Sie mit der Migration fortfahren, beachten Sie bitte die <u>Richtlinien und Einschränkungen für</u> das Firewall Migration Tool.

# Konfigurieren

Netzwerkdiagramm



Konfigurationsschritte

1. Laden Sie das neueste FirePOWER Migration Tool von Cisco Software Central herunter:



#### Software Download

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3. Nachdem Sie das Programm ausgeführt haben, wird ein Webbrowser geöffnet, in dem die Endbenutzer-Lizenzvereinbarung angezeigt wird. Aktivieren Sie das Kontrollkästchen, um die Geschäftsbedingungen zu akzeptieren.Klicken Sie auf **Fortfahren.** 



 Melden Sie sich beim Migrations-Tool an. Sie können sich entweder mit dem CCO-Konto oder mit dem lokalen Standardkonto anmelden. Die lokalen Standardkontoanmeldeinformationen sind: admin/Admin123



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5. Wählen Sie die zu migrierende Quell-Firewall aus. In diesem Beispiel wird die Cisco ASA (8.4+) als Quelle verwendet.



6. Wählen Sie die Extraktionsmethode aus, mit der die Konfiguration abgerufen werden soll. Beim manuellen Hochladen müssen Sie die Running Config Datei der ASA im Format ".cfg" oder ".txt".Stellen Sie eine Verbindung zur ASA her, um Konfigurationen direkt aus der Firewall zu extrahieren.

Extraction Methods		~
Manual Upload     File format is 'cfg' or 'bst'.     For Multi-context upload a show tech.     For Single-context upload show running.     Do not upload hand coded configurations.     Upload	Connect to ASA  Enter the management IP address and connect using admin credentials. IP format should be: <ip.port>. ASA IP Address/Hostname 192.168.1.20 Connect</ip.port>	
Context Selection		>
Parsed Summary		>

Anmerkung: In diesem Beispiel stellen Sie eine direkte Verbindung zur ASA her.

7. Eine Zusammenfassung der auf der Firewall gefundenen Konfiguration wird als Dashboard angezeigt. Klicken Sie auf "Weiter".

Back Next

Firewall Migration Tool					6
Extract Cisco A	SA (8.4+) Information 🕢	~		Source: Cisco ASA (8.	4+)
Extraction Methods					>
ASA IP Address: 192.16	.1.20				
Context Selection					>
Single Context Mode:	lownload config				
Parsed Summary					~
Collect Hitcounts: No					
8	2	0	0	0	
Access Control List L	tes Access List Objects (Standard, Extended used in BGP:RAVPINEIGRP)	Network Objects	Port Objects	Dynamic-Route Objects (AS-Path, Community-List, Policy-List, Prefix-List, Route-Map)	
0	1	1	0	0	
Network Address Tran	ation Logical Interfaces	Routes	Site-to-Site VPN Tunnels	Remote Access VPN (Connection Profiles)	
<ul> <li>Pre-migration report</li> </ul>	ill be available after selecting the targets.				

8. Wählen Sie das Ziel-FMC aus, das für die Migration verwendet werden soll. Geben Sie die IP des FMC an. Es öffnet ein Popup-Fenster, in dem Sie zur Eingabe der Anmeldeinformationen des FMC aufgefordert werden.

https://cisco.com

cisco	Firewa	all Migration Tool		000
		Select Target  Source	e: Cisco ASA (8.4+)	
		Firewall Management	$\sim$	
		On-Prem/Virtual FMC     Oloud-delivered FMC		
		FMC IP Address-Hostname		
		192.158.1.18		
		Connect		
		1 FTD(s) Found		
		Proceed		
		Successfully connected to FMC		
		Choose FTD	>	
		Select Features	>	
		Rule Conversion/ Process Config	>	

9. *(Optional)* Wählen Sie die FTD-Zielnummer aus, die Sie verwenden möchten. Wenn Sie zu einem FTD migrieren möchten, wählen Sie das FTD aus, das Sie verwenden möchten.Wenn Sie kein FTD verwenden möchten, können Sie das Kontrollkästchen aktivieren. Proceed without FTD

Back Next

Back Next

slect Target 💿	isco ASA (8.4+
	100071011(0.11
rewall Management	>
MC IP Address/Hostname: 192.168.1.18	
100SE FTD	~
Select FTD Device O Proceed without FTD	
FTD (192.168.1.17) - VMWare (Native) V	
Proceed	>
ile Consersion/ Drocess Confin	>
no donito sona i reessa oving	

 Wählen Sie die Konfigurationen aus, die migriert werden sollen. Die Optionen werden in den Screenshots angezeigt.

cisco Firewa	all Migration Tool			000
	Select Target 0	×	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	
	Interfaces	Z 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  NAT (no data)	CSM/ASDM	
	Site-to-site VPW runnels (no data)	Vetwork Objects (no data)		
	Pointy based (Orypio map)	Port Objects (no data)		
	E marc source (+ r)	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. Starten Sie die Umwandlung der Konfigurationen von ASA in FTD.

Back Next

	1	-0	3	4	5	6	
	Extract.ASA Information	Select Target	Map FTD Interface	Map Security Zones & Interface Groups	Optimize, Review & Validate	Complete Migration	
Select Target 🕕							Source: Cisco ASA (8.4+)
Firewall Management							>
FMC IP Address/Hostnam	te: 192.168.1.18						
hoose FTD							>
Selected FTD: FTD							
elect Features							>
Rule Conversion/ Proces	ss Config						~
Start Conversion							

12. Nach Abschluss der Konvertierung wird ein Dashboard mit der Zusammenfassung der zu migrierenden Objekte angezeigt (auf Kompatibilität beschränkt). Optional können Sie auf **Download Report** um eine Zusammenfassung der zu migrierenden Konfigurationen zu erhalten.

ooloot laiget o				
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-r	migration report for more details.			
0 parsing errors found. Refer to the pre-r Please download the Pre-Migration repo	migration report for more details. rt for a detailed summary of the parsed configuration	n. Download Report		
0 parsing errors found. Refer to the pre-t Please download the Pre-Migration repo	migration report for more details. It for a detailed summary of the parsed configuration	n. Download Report	0	0
0 parsing errors found. Refer to the pre- Please download the Pre-Migration repo	migration report for more details. It for a detailed summary of the parsed configuration 0 Access List Objects	n. Download Report	0 Port Objects	0 Dynamic-Route Objects
0 parsing errors found. Refer to the pre- Please download the Pre-Migration repo	migration report for more details. If for a detailed summary of the parsed configuration O Access List Objects (Standard, Extended used in BORHRAVPINEIGRP)	n. Download Report	0 Port Objects	O Dynamic-Route Objects (AS-Path, Community-List, Policy-List, Preto-List, Route-Map)
0 parsing errors found. Refer to the pre-f Please download the Pre-Migration repo 0 Access Control List Lines	regration report for more details. If for a detailed summary of the parsed configuration 0 Access List Objects (Standard, Extended used in BOP:RAVPINEIGRP) 1	n. Download Report	0 Port Objects	0 Dynamic-Route Objects (AS-Path. Community-List, Policy-List, Pretix-List, Route-Map) 0

Beispiel für einen Bericht vor der Migration, wie in der Abbildung dargestellt:

	Pre-Migration Report		Date: 18 August 2022 22:04 PM							
Na	Note: Review all contents of this pre-migration report carefulty: Usurgooted rules will not be migrated completely, which can potentially abre your original configuration, restrict some traffic, or permit unwanted traffic. We recommend that you update the related rules and policies in Firepower Management Center to ensure that traffic is appropriately handled by Fi Defense after the configuration is successfully migrated.									
1										
A	summary of the supported ASA configuration elements that can be successfully migrated to Firepower Three									
	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								
	FMC Type	On-Prem FMC								
	Logical Interfaces	1								

### 13. Ordnen Sie die ASA-Schnittstellen den FTD-Schnittstellen des Migrations-Tools zu.

Network Objects and Group

alialia cisco	Firewa	all Migration Tool				000
		Map FTD Interface ()	<ul> <li>*</li> </ul>		Source: Cisco ASA (8.4+) Target FTD: FTD	
				Refresh		
		ASA Interface Name	FTD Interface Name			
		Management0/0	GigabitEthernet0/0 🗸			
		20 v per page 1 to 1 of 1   4 4 Page 1 of 1 ▶ ▶				
					Back Next	

14. Erstellen Sie die Sicherheitszonen und Schnittstellengruppen für die Schnittstellen auf dem FTD.

Il Migration Tool					
Map Security Zones and In	terface Groups 🛈	<ul> <li>*</li> </ul>			
				Add SZ & IG	Auto-Create
ASA Logical Interface Name	FTD Interface	FMC Security Zones		FMC Interface Groups	
management	GigabitEthernet0/0	Select Security Zone	÷	Select Interface Groups	v

Sicherheitszonen (SZ) und Schnittstellengruppen (IG) werden automatisch vom Tool erstellt, wie im Bild gezeigt:

cisco Firewall Migration Tool					000
	Extract ASA Information Se	2 3 iest Target Map FTD interface	Map Security Zones & Interface Groups Optimize, Review & Validate	6 Complete Migration	
Map Security Zone	es and Interface Groups 🛈	-	<u>^</u>	Source: Cisco ASA (8.4+) Target FTD: FTD	
ASA Logical Interface N	ame FTD Interface	FMC Security Zones	Add SZ & IG Auto-Create FMC Interface Groups		
management	GigabitEthernet0/0	management	v management_ig (A) v		
10					
per page 1 to 1	or1 [4 4 Page 1 of1 ▶ ▶				

15. Prüfen und validieren Sie die zu migrierenden Konfigurationen im Migrations-Tool. Wenn Sie die Überprüfung und Optimierung der Konfigurationen bereits abgeschlossen haben, klicken Sie auf Validate.

		(1)	(2)		(4)		6	
		Extract ASA Information	Select Target	Map FTD Interface	Map Security Zones & Interface Oroups	Optimize, Review & Validate	Complete Migration	
Optin	mize, F	Review and Validate Co		Remote Access VPN			Source: Cisco ASA Target FTD: FTD	A (8.4+)
Acce	ess List Obje	ects Network Objects Port Objects	VPN Objects Dynamic-Route	Objects				
•	#	Name Q	Validation St	ate	Type		Value	
0	1	obj-192.168.1.1	Will be created in	FMC	Network Object		192.168.1.1	

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

16. Wenn der Validierungsstatus erfolgreich ist, übertragen Sie die Konfigurationen auf die Zielgeräte.

	C		Va	lidation Stat	16			
	Extract ASA		va	iluation Stati	45		Mgration	
Optimize, F	Review and Vali		$\odot$	Successfully Validat	ed		urce: Cisco ASA (8.4+) roet FTD: FTD	
Access Control 🗸	Objects 🗸 🛛 NAT 🗸	Validation Summary (Pre-	push)					
	ects V Network Objects							
	tries Selected: 0 / 1	0		1			Search	
		Access Control List Lines		Network Objects			Search	-
- I - I - I - I - I - I - I - I - I - I	Q							
1	obj-192.168.1.1							
			1	1				
			Logical Interfaces	Routes				
		O Note: T	he configuration on the target F	TD device FTD (192.168.1.1	7) will be overwritten as part of th	is migration.		
				Push Continuation				
				1 dan connigaration				
	ige 1 of 1 + +							

Beispiel einer Konfiguration, die über das Migrations-Tool durchgeführt wird, wie in der Abbildung dargestellt:

Validate

cisco Firewall Migration Tool			000
Complete Migration ③ Migration Status	PUSHING 25% Complete Push in progress. Refer FMT Terminal to monitor the migration status.	3 Cotoreas, Revere & Valdates Comparison Magnation 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. Download F			

#### Beispiel einer erfolgreichen Migration, wie in der Abbildung dargestellt:

ilialia cisco	Firewall Migration Tool					000
		1     2 Estratt ASA Information     Select Target	3 Map FTD Insertace Map Se	4 5	Complete Migration	
	Complete Migration	0			Source: Cisco ASA (8.4+) Target FTD: FTD	
	Migration Status			Optimization Status		
	Migration is complete, poli Next Step - Login to FMC 1	cy is pushed to FMC. o deploy the policy to FTD.		ACL Optimization is not app	fied for this migration.	
	Live Connect: asaconfig.txt Selected Context: Single Context &	Node				
	Migration Summary (Post Push	)				
	0		1			
	Access Control List Lines		Network Objects			
		1	1			
		Logical Interfaces	Routes			
	Disease developed the David Development		-			

17. *(Optional)* Wenn Sie sich für die Migration der Konfiguration zu einem FTD entschieden haben, ist eine Bereitstellung erforderlich, um die verfügbare Konfiguration vom FMC auf die Firewall zu übertragen, damit die Konfiguration bereitgestellt werden kann: Melden Sie sich an der FMC-GUI an.Navigieren Sie zum Deploy aus.Wählen Sie die Bereitstellung aus, um die Konfiguration per Push an die Firewall weiterzuleiten.Klicken Sie auf Deploy.

cisco	Firepower Management Center Q Overview Analysis Deploy / Deployment	Policies Devices Objects AMP	Intelligence		Deploy	🔮 🌣 🛛 admin 🕶
						Deploy
Q Set	ch using device name, type, domain, group or status					
	Device	Inspect Interruptio	n Type Group	Last Deploy Time Preview	Status	
· · (	FTD		FTD	8/13/2022, 6:01:52 PM	Pending	
:=	<ul> <li>Device Configurations</li> </ul>					
•	Interface Policy					
	Advanced Settings					
	Pv4 Static Route Policy					

# Fehlerbehebung

In diesem Abschnitt finden Sie Informationen zur Behebung von Fehlern in Ihrer Konfiguration.

Überprüfen Sie die Protokolle im Verzeichnis, in dem sich die Firepower Migration Tool-Datei befindet. Beispiel:

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

#### Informationen zu dieser Übersetzung

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