Configurazione dello strumento di migrazione Secure Firewall per la migrazione di ASA

Sommario

Introduzione Prerequisiti Requisiti Componenti usati Premesse Configurazione Esempio di rete Procedura di configurazione Risoluzione dei problemi

Introduzione

In questo documento viene descritta la procedura di migrazione di Cisco Adaptive Security Appliance (ASA) a Cisco Firepower.

Contributo di Ricardo Vera, Cisco TAC Engineer.

Prerequisiti

Requisiti

Cisco raccomanda la conoscenza di Cisco Firewall Threat Defense (FTD) e Adaptive Security Appliance (ASA).

Componenti usati

Le informazioni fornite in questo documento si basano sulle seguenti versioni software e hardware:

- Windows PC con Firepower Migration Tool (FMT) versione 3.0.1
- Adaptive Security Appliance (ASA) v9.16.1
- Secure Firewall Management Center (FMCv) v7.0.1
- Secure Firewall Threat Defense Virtual (FTDv) v7.0.1

Le informazioni discusse in questo documento fanno riferimento a dispositivi usati in uno specifico ambiente di emulazione. Su tutti i dispositivi menzionati nel documento la configurazione è stata ripristinata ai valori predefiniti. Se la rete è operativa, valutare attentamente eventuali conseguenze derivanti dall'uso dei comandi.

I requisiti specifici per questo documento includono:

- Cisco Adaptive Security Appliance (ASA) versione 8.4 o successive
- Secure Firewall Management Center (FMCv) versione 6.2.3 o successiva

Lo strumento di migrazione del firewall supporta questo elenco di dispositivi:

- Cisco ASA (8.4+)
- Cisco ASA (9.2.2+) con FPS
- Punto di controllo (r75-r77)
- Punto di controllo (r80)
- Fortinet (5.0+)
- Palo Alto Networks (6.1+)

Prima di procedere con la migrazione, prendere in considerazione le <u>linee guida e le limitazioni</u> per lo strumento di migrazione del firewall.

Configurazione

Esempio di rete



Procedura di configurazione

1. Scarica l'ultimo strumento di migrazione Firepower da Cisco Software Central:



Software Download

cisco

Downloads Home / Security / Firewalls / Next-Generation Firewalls (NGFW) / Secure Firewall Threat Defense Virtual / Firepower Migration Tool (FMT)- 3.0.1

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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	± \;

2. Fare clic sul file scaricato in precedenza sul computer.

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3. Dopo l'esecuzione del programma, viene aperto un browser Web che visualizza il "Contratto di licenza con l'utente finale". Selezionare la casella di controllo per accettare i termini e le condizioni.Fare clic su **Continua**.



4. Accedere allo strumento di migrazione. Èpossibile accedere con l'account CCO o con l'account predefinito locale. Le credenziali dell'account predefinito locale sono: admin/Admin123



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5. Selezionare il firewall di origine di cui eseguire la migrazione. Nell'esempio, viene usato Cisco ASA (8.4+) come origine.



6. Selezionare il metodo di estrazione da utilizzare per ottenere la configurazione. Per il caricamento manuale è necessario caricare Running Config dell'ASA nel formato ".cfg" o ".txt".Collegare l'appliance ASA per estrarre le configurazioni direttamente dal firewall.

Back

The Wall Migration Tool							
	Extract A SA Information	2 Belect Target	A Map PTD Interface Map Security Zenes & Interface Onups	5 Optimize, Review & Validate	6 Complete Migration		
Extract Cisco A	SA (8.4+) Information	0				Source: Cisco ASA (8.4+)	
Extraction Methods						~	
	Manual Upload		Connect to ASA				
File format is 'cfg For Multi-context For Single-contex Do not upload ha	r or '.bd'. upload a show tech. t upload show running. und coded configurations.		Enter the management IP address and connect using a credentials. IP format should be: <ip.port>. ASA IP Address/Hostname 192.168.1.20 Connect</ip.port>	dmin			
Context Selection						>	
Parsed Summary						>	

Nota: Per questo esempio, connettersi direttamente all'appliance ASA.

7. Un riepilogo della configurazione rilevata sul firewall viene visualizzato come dashboard. Fare clic su **Avanti**.

cisco Firewa	all Migration Tool					000
	Extract Cisco ASA (8.4+) Ir	formation 🕕	· · ·		Source: Cisco ASA (8.	\$+)
	Extraction Methods					>
	ASA IP Address: 192.168.1.20					
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	Collect Hitcounts: No					
	8 Access Control List Lines	2 Access List Objects (Standard, Extended used in BGP:RAVPWEIGRP)	O Network Objects	O Port Objects	O Dynamic-Route Objects (A3-Path, Community-Last, Policy-List, Prefix-List, Route-Map)	
	0 Network Address Translation	1 Logical Interfaces	1 Routes	0 Site-to-Site VPN Tunnels	O Remote Access VPN (Connection Profiles)	
	 Pre-migration report will be available after 	selecting the targets.				
					Back	d

8. Selezionare il FMC di destinazione da utilizzare nella migrazione. Fornire l'indirizzo IP del CCP. Viene visualizzata una finestra popup in cui vengono richieste le credenziali di accesso del CCP.

https://cisco.com

9. (Facoltativo) Selezionare l'FTD di destinazione da utilizzare. Se si sceglie di eseguire la migrazione a un FTD, selezionare l'FTD che si desidera utilizzare. Se non si desidera utilizzare un FTD, è possibile compilare la casella di controllo Proceed without FTD

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elect Target Source: Cisco ASA (8.4+) Source:			
irewall Management C Proceed without FTD Proceed	irevail Management C IP Address/Hostname: 192.159.1.18 C IP Address/Hostname: 192.159.1.18 C In osse FTD Select FTD Device FTD (192.156.1.17) - VM/Ware (Native) Proceed Proceed without FTD Proceed elect Features elect Features elect Features elect Features Process Config	Select Target O	Source: Cisco ASA (8.4+
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elect Features >	elect Features >	FMC. Proceed	
ule Conversion/ Process Config >	Lule Conversion/ Process Config >	elect Features	>
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10. Selezionare le configurazioni di cui si desidera eseguire la migrazione. Le opzioni vengono visualizzate negli screenshot.

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		
	Site-to-Site VPN Tunneis (no data)	NAT (no data)	CSMASUM	
	Policy Based (Crysto Map)	Vetwork 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. Avviare la conversione delle configurazioni da ASA a FTD.

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	1	2	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	e: 192.168.1.18						
Choose FTD							>
Selected FTD: FTD							
Select Features							>
Rule Conversion/ Proces	ss Config						\sim
Start Conversion							

12. Al termine della conversione, viene visualizzato un dashboard con il riepilogo degli oggetti da migrare (limitato alla compatibilità). Èpossibile fare clic su Download Report per ricevere un riepilogo delle configurazioni da migrare.

cisco Firewa	all Migration Tool					00
	Select Target ()		, v		Source: Cisco ASA	ı (8.4+)
	Firewall Management					>
	FMC IP Address/Hostname: 192.168.1.18					
	Choose FTD					>
	Selected FTD: FTD					
	Select Features					>
	Rule Conversion/ Process Config					\sim
	Start Conversion					
	0 parsing errors found. Refer to the pre-migra	tion report for more details.				
	Please download the Pre-Migration report for	a detailed summary of the parsed configuration	Download Report			
	0	0	1	0	0	
	Access Control List Lines	Access List Objects	Network Objects	Port Objects	Dynamic-Route Objects	
		(Standard, Extended used in BGP/RAVPN/EIGRP)			(AS-Path, Community-List, Policy-List, Prefor-List, Route-Map)	
	0	1	1	0	0	
	Network Address Translation	Logical Interfaces	Routes	Site-to-Site VPN Tunnels	Remote Access VPN (Connection Profiles)	
				τ	Back	Next

Esempio di report pre-migrazione, come mostrato nell'immagine:



Note: Review all contents of this pre-Defense after the configuration is suc

1. Overall Summary:

A summary of the supported ASA configuration elements that can be successfully migrated to Firep

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
Network Objects and Groups	1

13. Mappare le interfacce ASA con le interfacce FTD sullo strumento di migrazione.

cisco	Firewa	all Migration Tool				00
		Map FTD Interface ()	(v)		Source: Cisco ASA (8.4+) Tarreet 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. Creare le aree di sicurezza e i gruppi di interfacce per le interfacce sull'FTD

p Security Zones and I	Interface Groups 🕕	Target FTD: FTD			
			(Add SZ & IG) (Auto-Create		
SA Logical Interface Name	FTD Interface	FMC Security Zones	FMC Interface Groups		
agement	GigabitEthernet0/0	Select Security Zone	✓ Select Interface Groups ✓		

Back Next

_		1								
10	~	per page	1 to 1 of 1	∢	-4	Page	1	of 1	Þ	×
_		-								

Le aree di sicurezza (SZ) e i gruppi di interfaccia (IG) vengono creati automaticamente dallo strumento, come mostrato nell'immagine:

cisco Firewa	all Migration Tool							• •	Ð
		1 Extract ASA information	2 Select Target	3 Map FTD Interface	Map Security Zones & Interface Groups	5 Optimize, Review & Validate	6 Complete Migration		
	Map Security Zones	and Interface Groups	0		^		Source: Cisco ASA (Target FTD: FTD	8.4+)	
					Add SZ &	IG Auto-Create			
	ASA Logical Interface Nam	ne FTD Interface		FMC Security Zones	FMC Interface	Groups			
	management	GigabitEthernet0/0		management	✓ management_ig (A) 👻			
	10 v per page 1 to 1 of	f 1 4 4 Page 1 of 1	▶ ▶						
								Dark Next	

15. Rivedere e convalidare le configurazioni da migrare sullo strumento di migrazione. Se l'analisi e l'ottimizzazione delle configurazioni sono già state completate, fare clic su Validate.

Optimiza Daviau	and Validate Configuration			Source: Cisco ASA (8.4+)
Optimize, Review	Target FTD: FTD			
Access Control Objects	4AT Interfaces Routes Site-to-Site VF	'N Tunnels 🕕 Remote Access VPN		
Access List Objects Netw	ork Objects Port Objects VPN Objects D	ynamic-Route Objects		
Select all 1 entries Sele	ted: 0/1 Actions - Save			Q, Search
I Name		Validation State	Туре	Value
1 obj-192.16	d.1 V	Will be created in FMC	Network Object	192.168.1.1
			regenesis organi	Table Table 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. Se lo stato di convalida ha esito positivo, eseguire il push delle configurazioni nei dispositivi di destinazione.

Extract ASA		Va	lidation State	JS		Mgration	
Ontimize Review and Val		\odot	Successfully Validat	ed		urce: Cisco ASA (8.4+)	
Access Control V Objects V NAT V	Validation Summary (Pre	-push)				rget FTD: FTD	
Access List Objects V Network Objects	0		1				
Select all fettures Select all fettures Select all fettures Image: Ima	Access Control List Lines		Network Objects			. Search	_
		1	1				
		Logical Interfaces	Routes				
	🕕 Note: 1	The configuration on the target F	TD device FTD (192.168.1.1	7) will be overwritten as part of th	is migration.		
			Push Configuration				
page 1to1of1 (4 4 Page 1 of1 + +)							

Esempio di configurazione sottoposta a push tramite lo strumento di migrazione, come mostrato nell'immagine:

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			

Esempio di migrazione riuscita, come mostrato nell'immagine:

cisco	Firewall Migration Tool					000
		1 2 Extract ASA Information Select Target	3 Map FTD Interface Map Se	4 5 eurity Zones & Interface Oroups Optimize, Review & Valdate	Complete Migration	
	Complete Migration	o			Source: Cisco ASA (8.4+) Target FTD: FTD	
	Migration Status			Optimization Status		
	Migration is complete, pol Next Step - Login to FMC	cy is pushed to FMC. to deploy the policy to FTD.		ACL Optimization is not app	lied for this migration.	
	Live Connect: asaconfig txt Selected Context: Single Context	Mode				
	Migration Summary (Post Push)				
	0		1			
	Access Control List Lines		Network Objects			
		1	1			
		Logical Interfaces	Routes			
	Dianas darrata dika Dask Drak ani t					

17. *(Facoltativo)* Se si è scelto di eseguire la migrazione della configurazione a un FTD, è necessaria una distribuzione per eseguire il push della configurazione disponibile dal FMC al firewall, al fine di distribuire la configurazione: Accedere alla GUI del CCP.Passare alla Deploy .Selezionare la distribuzione per eseguire il push della configurazione nel firewall.Clic Deploy.

De	leploy

How To

Risoluzione dei problemi

Le informazioni contenute in questa sezione permettono di risolvere i problemi relativi alla configurazione.

Verificare i log nella directory in cui è stato inserito il file dello strumento di migrazione di Firepower, ad esempio:

Firepower_Migration_Tool_v3.0.1-7373.exe/logs/log_2022-08-18-21-24-46.log

Informazioni su questa traduzione

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