Configurar a Secure Firewall Migration Tool para migração do ASA

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Introduction

Este documento descreve o procedimento para migrar o Cisco Adaptive Security Appliance (ASA) para o Cisco Firepower.

Contribuição de Ricardo Vera, engenheiro do Cisco TAC.

Prerequisites

Requirements

A Cisco recomenda que você tenha conhecimento do Cisco Firewall Threat Defense (FTD) e do Adaptive Security Appliance (ASA).

Componentes Utilizados

As informações neste documento são baseadas nestas versões de software e hardware:

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

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. Se a rede estiver ativa, certifique-se de que você entenda o impacto potencial de qualquer comando.

Informações de Apoio

Os requisitos específicos deste documento incluem:

- Cisco Adaptive Security Appliance (ASA) versão 8.4 ou posterior
- Secure Firewall Management Center (FMCv) versão 6.2.3 ou posterior

A Ferramenta de Migração de Firewall suporta esta lista de dispositivos:

- Cisco ASA (8,4+)
- Cisco ASA (9.2.2+) com FPS
- Ponto de verificação (r75-r77)
- Ponto de verificação (r80)
- Fortinet (5.0+)
- Palo Alto Networks (6.1+)

Antes de prosseguir com a migração, considere as <u>Diretrizes e Limitações da Ferramenta de</u> <u>Migração de Firewall.</u>

Configurar

Diagrama de Rede



Configuration Steps

1. **Faça** o **download** da ferramenta de migração do Firepower mais recente na Cisco Software Central:



Software Download

uluilu cisco

Search	\supset	Secure Firewall Threat Defense Vi	rtual		
Expand All Collapse All atest Release 3.0.1	~	Release 3.0.1	Related Links an Open Source Release Notes for 3.0 Install and Upgrade G	nd Documentation 1.1 wides	
2.5.3			Pelases Data	Size	
UI Release	~	File Information	Release Date	Size	
3	>	configurations which will be used as an input to Firepower	10-Aug-2022	3.03 MD	<u>·</u>
2	>	Migration Tool. FMT-CP-Config-Extractor_v3.0.1-7373.exe Advisories			
		Firepower Migration Tool 3.0.1 for Mac Firepower_Migration_Tool_v3.0.1-7373.command Advisories	10-Aug-2022	34.75 MB	<u>+</u>
		Firepower Migration Tool 3.0.1 for Windows Firepower_Migration_Tool_v3.0.1-7373.exe	10-Aug-2022	35.42 MB	<u>+</u>

2. Clique no arquivo baixado anteriormente no computador.

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💣 Network										
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Note: O programa é aberto automaticamente e um console gera automaticamente o conteúdo no diretório onde você executou o arquivo.

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3. Depois de executar o programa, ele abre um navegador que exibe o "Contrato de licença de usuário final". Marque a caixa de seleção para aceitar termos e condições.Clique em **Continuar.**



4. Faça login na ferramenta de migração. Você pode fazer login com a conta CCO ou com a conta padrão local. As credenciais da conta padrão local são: admin/Admin123



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5. Selecione o firewall de origem a ser migrado. Neste exemplo, o Cisco ASA (8.4+) é usado como origem.



6. Selecione o método de extração a ser usado para obter a configuração. O carregamento manual requer que você carregue o Running Config arquivo do ASA no formato ".cfg" ou ".txt".Conecte-se ao ASA para extrair configurações diretamente do firewall.

	Extract ASA information	Select Target	Map PTD interface Map Security Zones & Interface Oroups Optimize, Review & V	Taldate Complete Migration	
Extract Cisco AS	A (8.4+) Information	n ()			Source: Cisco ASA (8.4+
Extraction Methods					~
File format is ' cfgr o For Multi-context up For Single-context u For Single-context u	Manual Uplead r'tst'. Isoad a show tech. Iplead show running.		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					>

Note: Para este exemplo, conecte-se diretamente ao ASA.

7. Um resumo da configuração encontrada no firewall é exibido como um painel. Clique em **Avançar**.

Back

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 BGPIRAVPN/EIGRP)	Network Objects	Port Objects	Dynamic-Route Objects (AS-Path, Community-List, Policy-List, Pretix-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 a	fter selecting the targets.				

8. Selecione o FMC de destino a ser usado na migração. Indicar o IP do CVP. Ele abre uma janela pop-up na qual solicita as credenciais de login do FMC.

cisco Firewa	II Migration Tool		000				
	Select Target 🕠						
	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	>					

 (Opcional) Selecione o FTD de Destino que deseja usar. Se você optar por migrar para um FTD, selecione o FTD que deseja usar. Se você não quiser usar um FTD, poderá preencher a caixa de seleção Proceed without FTD

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Back Next

lect Target 🔿	Source: Cisco ASA (8.4+
ewall Management	>
IC IP AddressiHostname: 192.168.1.18	
oose FTD	~
Select FTD Device Oroceed without FTD FTD (152:168.1.177) - VMWare (Native)	
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 same as in the uploaded ASA configuration file.	he migrated configuration to th
reu.	
Proceed	
Proceed loct Features	>

10. Selecione as configurações que deseja migrar, as opções são exibidas nas capturas de tela.

Firewall Migration Tool		
Select Target ①		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	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 Tunnels (no data)	NAT (no data)	
Policy Based (Crypto 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	
	Remote Access VPN migration is supported on FMC/FTD 7.2 and above.	

11. Inicie a conversão das configurações do ASA para o 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	ne: 192.168.1.18						
Choose FTD							>
Selected FTD: FTD							
Select Features							>
Rule Conversion/ Proce	ss Config						\sim
Start Conversion							

12. Quando a conversão for concluída, ele exibirá um painel com o resumo dos objetos a serem migrados (restrito à compatibilidade). Você pode clicar em Download Report para receber um resumo das configurações a serem migradas.

cisco Firewa	all Migration Tool	0	3	5		000			
	Select Target ()								
	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-migra	ion 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			(AS-Path, Community-List, Policy-List, Profeshiet, Restantion)				
		BORNOV PREMIER			Press Last, Possierinep)				
	0	1	1	0	0				
	Network Address Translation	Logical Interfaces	Routes	Site-to-Site VPN Tunnels	Remote Access VPN				
					(Connection Profiles)				
					Back Next				

Exemplo de relatório de pré-migração, como mostrado na imagem:



Note: Review all contents of this pr Defense after the configuration is m

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. Mapeie as interfaces do ASA com as interfaces do FTD na Ferramenta de Migração.

cisco	Firewa	all Migration Tool			0 0	Ð
		Map FTD Interface ()	• • • • • • • • • • • • • • • • • • •		Source: Cisco ASA (8.4+) Target FTD: FTD	
				Refresh		
		ASA Interface Name	FTD Interface Name			
		Management0/0	GigabitEthernet0/0 🗸			
		www.beckaße itoioti [4 4 ka36] 0[1 ▶ ▶				
					Back Next	

14. Crie as zonas de segurança e os grupos de interface para as interfaces no FTD

I Migration Tool							? O D
Map Security Zones and I	nterface Groups 🕔	(v		(Add SZ & IG) (Au	to-Create	Source: Cisco ASA (8.4+) Target FTD: FTD	
ASA Logical Interface Name	FTD Interface	FMC Security Zones		FMC Interface Groups			
management	GigabitEthernet0/0	Select Security Zone	v	Select Interface Groups	~		

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

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Zonas de segurança (SZ) e Grupos de interface (IG) são criados automaticamente pela ferramenta, como mostrado na imagem:

ahaha cisco	Firewall Migration Tool							000	Ð
		1 Extract ASA information	2 Select Target	3 Map FTD Interface Map	Security Zones & Interface Groups O	5 ptimize, Review & Validate	6 Complete Migration		
	Map Security Zone	es and Interface Groups 🤇	þ				Source: Cisco AS/ Target FTD: FTD	A (8.4+)	
	ASA Logical Interface M	ETD Interface	EM	2 Security Zones	Add SZ & IG	Auto-Create			
				security zones	PMC Interface Grou	nhə			
	management	GigabitEthemet0/0	mana;	pement	 management_ig (A) 	~			
	10 v per page 1 to 1	of 1 4 4 Page 1 of 1 ▶	Þ.						

15. Revise e valide as configurações a serem migradas na Ferramenta de Migração. Se já tiver concluído a revisão e otimização das configurações, clique em Validate.

		1 Extract ASA Information	2 Select Target	3 Map FTD Interface	4 Map Security Zones & Interface Groups	3 Optimize, Review & Validate	6 Complete Migration	
Opti	imize, F	Review and Validate Cor	nfiguration ()	Remote Access VPN	~		Source: Cisco ASA Target FTD: FTD	(8.4+)
Acc	cess List Obj	ects Network Objects Port Objects	VPN Objects Dynamic-Route C	bjects				
s	ect all 1 en	Name	Validation Sta	te	Туре		Q, Search Value	
0	1	Q.	Q.	NC	Q.		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. Se o status da validação for bem-sucedido, envie as configurações aos dispositivos de destino.

	(X		
	Extract ASJ		Va	lidation Statu	ls		Moration	
	Optimize, Review and Vali		\oslash	Successfully Validat	ed		urce: Cisco ASA (8.4+)	
	Access Control V Objects V NAT V	Validation Summary (Pre-	push)					
	Access List Objects V Network Objects	0		1				
	Select all 1 entries Selected: 0 / 1	Access Control List Lines		Network Objects			Search	+
								-
			1	1				
			Logical Interfaces	Routes				
		🕕 Note: T	he configuration on the target F1	FD device FTD (192.168.1.1	7) will be overwritten as part of th	is migration.		
				Push Configuration				
per page 11	olofi i + + Page 1 of 1 + +							

Exemplo de configuração distribuída pela ferramenta de migração, como mostrado na imagem:

Validate

cisco Firewall Migration Tool			000
(1) Extract AGA information Denied Terpet	PUSHING 25% Complete	3 Comman, Review & Valscare Computer Migrantion Source: Chico ASA (8, 4+)	
Complete Migration ③ Migration Status	Push In progress. Refer FMT Terminal to monitor the migration status.	Target FTD: FTD	
Interfaces			
Network Objects			
Access Control Policies			
Please download the Post-Push migration report for a detailed summary. Download I			

Exemplo de uma migração bem-sucedida, como mostrado na imagem:

cisco Firewall Migration Tool					000		
	2 Extract ASA Information Select Target	3 Map FTD interface Map Setu	4 5	Complete Migration			
Complete Migration	D			Source: Cisco ASA (8.4+) Target FTD: FTD			
Migration Status			Optimization Status				
Migration is complete, polic Next Step - Login to FMC to	r is pushed to FMC. deploy the policy to FTD.		ACL Optimization is not applie	ed for this migration.			
Live Connect: asaconfig.bd Selected Context: Single Context M	ode						
Migration Summary (Post Push)							
0		1					
Access Control List Lines		Network Objects					
	1	1					
	Logical Interfaces	Routes					
Diana develand the Dark Direk mine	the manufacture data the second se						

17. *(Opcional)* Se você optou por migrar a configuração para um FTD, é necessária uma implantação para enviar a configuração disponível do FMC para o firewall, a fim de implantar a configuração: Faça login na GUI do FMC.Navegue até a página Deploy guia.Selecione a implantação para enviar a configuração para o firewall.Clique em Deploy.

cisco	Firepower Management Center Q Overview	Analysis Policies Devices Obje	ects AMP Intelligence		Deplo	v 🔮 🌣	🛛 admin 🕶
							Deploy
Q Se	rch using device name, type, domain, group or status						
	Device		Inspect Interruption Type	Group Last Deploy Time	Preview Status		
· · (] FTD		FTD	8/13/2022, 6:01:52 PM	Pending		
•	Device Configurations Interface Policy Advanced Settings Routing Group IPv4 Static Route Policy						

Troubleshoot

Esta seção fornece informações que podem ser usadas para o troubleshooting da sua configuração.

Verifique os logs no diretório em que o arquivo da ferramenta de migração do Firepower foi colocado, por exemplo:

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

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