Configuración de la herramienta de migración de firewall seguro para la migración de ASA

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Introducción

Este documento describe el procedimiento para migrar el dispositivo de seguridad adaptable de Cisco (ASA) a Cisco Firepower.

Colaboración de Ricardo Vera, ingeniero del TAC de Cisco.

Prerequisites

Requirements

Cisco recomienda que conozca Cisco Firewall Threat Defence (FTD) y Adaptive Security Appliance (ASA).

Componentes Utilizados

La información que contiene este documento se basa en las siguientes versiones de software y hardware.

- PC con Windows con Firepower Migration Tool (FMT) v3.0.1
- Dispositivo de seguridad adaptable (ASA) v9.16.1
- Secure Firewall Management Center (FMCv) v7.0.1
- Secure Firewall Threat Defence 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. Si tiene una red en vivo, asegúrese de entender el posible impacto de cualquier comando.

Antecedentes

Los requisitos específicos para este documento incluyen:

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

La herramienta de migración de firewalls admite esta lista de dispositivos:

- Cisco ASA (8.4+)
- Cisco ASA (9.2.2+) con FPS
- Check Point (r75-r77)
- Check Point (r80)
- Fortinet (más de 5,0)
- Palo Alto Networks (6.1+)

Antes de continuar con la migración, tenga en cuenta las <u>directrices y limitaciones de la</u> <u>herramienta de migración del firewall.</u>

Configurar

Diagrama de la red



Configuration Steps

1. **Descargue** la herramienta de migración de Firepower más reciente de Cisco Software Central:



Software Download

uluiu cisco

Search	\bigcirc	Secure Firewall Threat Defense Vi	rtual		
Expand All Collapse All Latest Release 3.0.1	~	Release 3.0.1	Related Links a Open Source Release Notes for 3.0 Install and Upgrade C	nd Documentation 0.1 auides	
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		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. Haga clic en el archivo que descargó anteriormente en el equipo.

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Nota: El programa se abre automáticamente y una consola genera automáticamente contenido en el directorio donde ejecutó el archivo.

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3. Después de ejecutar el programa, se abre un navegador web que muestra el "Acuerdo de licencia del usuario final". Marque la casilla de verificación para aceptar los términos y condiciones.Haga clic en **Continuar.**



 Inicie sesión en la herramienta de migración. Puede iniciar sesión con la cuenta de CCO o con la cuenta predeterminada local. Las credenciales de la cuenta predeterminada local son: admin/Admin123



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5. Seleccione el firewall de origen que desea migrar. En este ejemplo, se utiliza Cisco ASA (8.4+) como fuente.



6. Seleccione el método de extracción que se utilizará para obtener la configuración. La carga manual requiere que cargue el Running Config del ASA en formato ".cfg" o ".txt".Conéctese al ASA para extraer configuraciones directamente del firewall.

Extract Cisco ASA (8.4+) Inform	mation 💿	Source: CISCO ASA (8.4+)
Manual Upload	Connect to ASA	
File format is '.cfg' or '.bd'. For Multi-context upload a show tech. For Single-context upload show running.	 Enter the management IP address and connect using admin credentials. IP format should be: <ip port="">.</ip> 	
Do not upload hand coded configurations.	ASA IP Address/Hostname 192.168.1.20	
Upload	Connect	
Context Selection		>
Parsed Summary		>

Nota: Para este ejemplo, conéctese directamente al ASA.

7. Se muestra un resumen de la configuración encontrada en el firewall como panel. Haga clic en **Siguiente**.

Back

Extrac	ion Methods					>
ASA IP	Address: 192.168.1.20					
Contex	t Selection					>
Single	Context Mode: Download config					
Parsec	Summary					\sim
Collect	Hitcounts: No					
	8	2	0	0	0	
A	ccess 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, Prefix-List, Route-Map)	
	0	1	1	0	0	
Net	work Address Translation	Logical Interfaces	Routes	Site-to-Site VPN Tunnels	Remote Access VPN (Connection Profiles)	

8. Seleccione el CSP objetivo que se utilizará en la migración. Proporcione la IP del CSP. Se abrirá una ventana emergente en la que se le solicitarán las credenciales de inicio de sesión del FMC.

https://risco.com

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cisco	Firewall Migration Tool	? 0 D
	Select Target () Source: Cisco ASA (8.4+)	
	Firewall Management	
	On-Prem/Virtual FMC Oloud-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. *(Opcional)* Seleccione el FTD de destino que desea utilizar. Si decide migrar a un FTD, seleccione el FTD que desea utilizar.Si no desea utilizar un FTD, puede rellenar la casilla de verificación Proceed without FTD

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FMC IP Address/Hostname: 192-168.1.18 Zhoose FTD Proceed Select FTD Device Proceed without FTD FTD (192-168.1.17) - VM/Ware (Native) Proceed without FTD Please ensure that the firewail mode configuration of 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 Image: Conversion/ Process Config ule Conversion/ Process Config >	Firewall Management	>
Choose FTD Proceed without FTD Select FTD Device Proceed without FTD Please ensure that the frewall mode configured on the target FTD device is the same as in the uploaded ASA configuration tile. The existing configuration of the FTD device on the FMC is enased when you push the migrated configuration to the FMC. Proceed Image: Conversion/ Process Config	FMC IP Address/Hostname: 192.168.1.18	
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Prease 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 ielect Features kule Conversion/ Process Config	Select FTD Device FTD (192 168.1 17) - VM/Ware (Native)	Proceed without FTD
Proceed ielect Features iele Conversion/ Process Config		
Proceed select Features tule Conversion/ Process Config	Please ensure that the firewall mode configured on the target FTD device is the same as in the uploaded ASA configuration file. The ENAC	existing configuration of the FTD device on the FMC is erased when you push the migrated configuration to the
Select Features >	Please ensure that the firewall mode configured on the target FTD device is the same as in the uploaded ASA configuration file. The FMC.	existing configuration of the FTD device on the FMC is erased when you push the migrated configuration to the
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	Prease ensure that the firewall mode configured on the target FTD device is the same as in the uploaded ASA configuration file. Th FMC. Proceed select Features	existing configuration of the FTD device on the FMC is erased when you push the migrated configuration to the
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	Prease ensure that the firewall mode configured on the target FTD device is the same as in the uploaded ASA configuration file. Th FMC. Proceed Select Features Rule Conversion/ Process Config	existing configuration of the FTD device on the FMC is erased when you push the migrated configuration to the

10. Seleccione las configuraciones que desea migrar; las opciones se muestran en las capturas de pantalla.

cisco Firewa	all Migration Tool			
	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	
	Interfaces	Access Control	V Migrate Only Referenced Objects	
	✓ Routes	Populate destination security zones	Object Group Search 🕕	
	Static	A 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)	V Network Objects (no data)		
	Route Based (VTI)	Port Objects (no data)		
		Access List Objects(Standard, Extended)		
		rime based Objects (no data)		
		Nemole Addess VPN		
		Remote Access VPN migration is supported on FMC/FTD 7.2 and above.		
	Proceed			

11. Inicie la conversión de las configuraciones de ASA a FTD.

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	1	2	3		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						~
Start Conversion							

12. Una vez finalizada la conversión, se muestra un panel con el resumen de los objetos que se van a migrar (limitado a la compatibilidad). También puede hacer clic en Download Report para recibir un resumen de las configuraciones que se van a migrar.

cisco Firewa	all Migration Tool						
	Select Target ()		× /		Source: Cisco	to ASA (8.4+)	
	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	tion report for more details.					
	Please download the Pre-Migration report for	a detailed summary of the parsed configuration	a. 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, Prefix-List, Route-Map)		
	0	1	1	0	0		
	Network Address Translation	Logical Interfaces	Routes	Site-to-Site VPN Tunnels	Remote Access VPN (Connection Profiles)		
					Back	Next	

Ejemplo de informe previo a la migración, como se muestra en la imagen:



Note: Review all cont Defense after the cont

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. Asigne las interfaces ASA a las interfaces FTD de la herramienta de migración.

alialia cisco	Firewa	all Migration Tool				-	000
		Map FTD Interface ()		× ·	Source: Cisco ASA (8.4+) Target FTD: FTD		
				Refresh			
		ASA Interface Name	FTD Interface Name				
		Management0/0	GigabitEthernet0/0	v			
		20 v per page 1 to 1 of 1 4 4 Page 1 of 1 >> >>	I				
						Back Next	

14. Crear las zonas de seguridad y los grupos de interfaces para las interfaces en el FTD

				000
Interface Groups 🕕	 × 		Source: Cisco ASA (8.4+) Target FTD: FTD	
		Add SZ & IG Auto-Create		
FTD Interface	FMC Security Zones	FMC Interface Groups		
GigabitEthernet0/0	Select Security Zone	✓ Select Interface Groups ✓		
	Interface Groups () FTD Interface OlyubitEthemet00	Interface Groups FTD Interface FMC Security Zones OligabetEthermetD0 Select Security Zone	Interface Groups Add SZ & IG Add-Create FTD Interface Groups FTD Interface Groups GligateEthernet00 Select Security Zone Select Interface Groups	Source: Cisco ASA (8.4*) Target FTD: FTD OrganaEthermetD0 Select Socurity Zone Select Interface Oroups Select Interface Oroups

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

La herramienta crea automáticamente las zonas de seguridad (SZ) y los grupos de interfaz (IG), como se muestra en la imagen:

altalta cisco	Firewall Migration Tool							000
		1	2	3	0	5	6	
		Extract ASA Information	Select Target	Map FTD Interface	Map Security Zones & Interface Groups	Optimize, Review & Validate	Complete Migration Source: Cisco ASA (8.4+)	
	Map Security Zone	es and Interface Groups	0		(Add 87.8)	IG Auto-Create	Target FTD: FTD	
	ASA Logical Interface N	ame FTD Interface		FMC Security Zones	FMC Interface	Groups		
		Cantal Description						
	management	GigaoitEthemeturu		management	 management_ig (A) 	Ŷ		
	10 v per page 1 to 1	ofi la a Page 1 of 1 b						
		ALL A LODO I OLL D	P1					
							Back	Next

15. Revise y valide las configuraciones que se van a migrar en la herramienta de migración. Si ya ha terminado de revisar y optimizar las configuraciones, haga clic en Validate.

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	1 Extract ASA information Se	2 3 rect Target Map FTD Interface	4 S Map Security Zones & Interface Oroups Optimize, Review & Validate	6 Complete Migration	
Optimize, Revi	ew and Validate Configuration		^	Source: Cisco ASA (8.4+) Target FTD: FTD	
Access List Objects	Network Objects Port Objects VPN Objects	Dynamic-Route Objects			
Select all 1 entries	Selected: 0/1 Actions + Save	Validation State	Type Q	Q. Search Value Q.	
D 1 0N-1	92 168 1 1	Will be created in EMC	Natural 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. Si el estado de validación es correcto, envíe las configuraciones a los dispositivos de destino.

	C		Va	lidation State	19		1	
	Extract AS4		va	ildation otati	15		ligration	
Optimize, Re	view and Vali		\odot	Successfully Validat	ed		urce: Cisco ASA (8.4+) rget FTD: FTD	
Access Control 🗸	Objects 🗸 🛛 NAT 🧹	Validation Summary (Pre-	push)					
Access List Objects	Network Objects	0		1				
Select all 1 entries	Selected: 0 / 1	Access Control List Lines		Network Objects			Search	<u>+</u>
	Name							
t	bj-192.168.1.1							
			1	1				
			Logical Interfaces	Routes				
		🕕 Note: T	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				
	1 of 1 + +							

Ejemplo de configuración introducida a través de la herramienta de migración, como se muestra en la imagen:

Validate

cisco Firewall Migration Tool			000
() ()	PUSHING 25% Complete Push In progress. Refer FMT Terminal to monitor the migration status.	Common: Review & Validans Completer Migration Source: Clisco ASA (B.4+) Target FTD: FTD	
Interfaces			
Network Objects			
Access Control Policies			
Please download the Post-Push migration report for a detailed summary. Download			

Ejemplo de migración correcta, como se muestra en la imagen:

Cisco Firewall Migration Tool					000
Extract	1 2 SA Information Select Target	3 Map FTD Interface Map Security	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 pus Next Step - Login to FMC to deploy	hed to FMC. the policy to FTD.		ACL Optimization is not applied	ed for this migration.	
Live Connect: asaconfig bit Selected Context: Single Context Mode					
Migration Summary (Post Push)					
0		1			
Access Centrol List Lines		Network Objects			
	1	1			
	Logical Interfaces	Routes			
Diana davaland Bar Dask Duck minerkan m					

17. *(Opcional)* Si ha seleccionado migrar la configuración a un FTD, se requiere una implementación para transferir la configuración disponible del FMC al firewall, a fin de implementar la configuración: Inicie sesión en la GUI de FMC.Vaya a la Deploy ficha.Seleccione la implementación para enviar la configuración al firewall.Haga clic Deploy.

cisco	Firepower Management Center Deploy / Deployment	Q. Overview	Analysis	Policies D	Devices O	bjects AM	P Intelli	ence				Deploy	6	🛛 admin 🔻
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•	Device Configurations Interface Policy Advanced Settings V Routing Group IPv4 Static Route Policy													

Troubleshoot

En esta sección encontrará información que puede utilizar para solucionar problemas de configuración.

Verifique los registros en el directorio donde se colocó el archivo de la herramienta de migración de Firepower, por ejemplo:

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

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