将Firepower威胁防御迁移到云交付的防火墙管理 中心

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简介

本文档介绍如何将Firepower线程防御从本地FMC迁移到云交付的FMC。

先决条件

要求

建议掌握下列主题的相关知识:

云交付的Firepower管理中心(cdFMC) 思科防御协调器(CDO) 安全Firepower威胁防御(FTDv) Firepower Management Center (FMC)

使用的组件

本文档中的信息基于以下软件版本:

- FTD 7.2.7
- cdFMC
- FMC 7.4.1

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原 始(默认)配置。如果您的网络处于活动状态,请确保您了解所有命令的潜在影响。

背景信息

Cisco Defense Orchestrator管理员用户可以将威胁防御设备从运行7.2版或更高版本的内部管理中 心迁移到云交付的防火墙管理中心。此外,您还可以将设备从内部管理中心1000/2500/4500迁移到 云交付的防火墙管理中心。

在开始迁移过程之前,将内部管理中心型号升级到CDO支持的版本并将其注册到CDO非常重要。只

有在此步骤之后,您才能继续迁移与内部管理中心关联的设备。

配置

1.-将现场FMC注册到CDO租户

这些图片显示了将OnPrem FMC注册到CDO租户所需的初始设置过程。

在CDO主菜单中,导航至Flrepower Management Center页面上的 Tools & Services > Firewall Management Center. On,注意屏幕右上方有一个蓝色添加按钮,并选择add按钮。

cisco	Defense Orchestrator		Serv	vices						Q Sear	ch
≡	Hide Menu										
	Dashboard		Q S	Search by Device Name, IP Addre	ss, or Serial Nur	nber					e +
\bigcirc	Multicloud Defense	F	мс	Secure Connectors							
<u></u>	Inventory		~	Name		Version	Devices	Туре	Status		Last Heartbeat
Conf	figuration			Cloud-Delivered FMC		20240307	⊖1	Cloud-Delivered FMC	 Active 		05/14/2024, 15:00:10
٢	Policies >		-								
\odot	Objects >										
ംപ്പം	VPN >										
Ever	nts & Monitoring										
	Analytics >										
٢	Change Log										
(<u>*</u>)	Jobs										
*	Tools & Services										
<u>نې</u>	Settings >										

图 1."Firepower管理中心"(Firepower Management Center)页面。

选择. Firewall Management Center

-ili-ili- cisco	Defense Orchestrato	r Services				Q Search	₽ 7 •	\$- ≜	? -
≡	Hide Menu								
	Dashboard		What would you like to on	board?				Cancel	
\bigcirc	Multicloud Defense								
	Inventory				Select a Service				
Cont	iguration			A	⊨←	←			
٢	Policies	>			$\square \rightarrow$	•••• →			
\otimes	Objects	>		Firewall Management Center	Secure Event Connector	Secure Device Connector			
•Å•	VPN	>		FMC	SEC	SDC			
Ever	ts & Monitoring								
\sim	Analytics	>							
٢	Change Log								
<u>(*</u>)	Jobs								
R	Tools & Services	>							
\$	Settings	>							



cisco	Defense Orchestrato	or Services			Q Search	¢ 7 -	¢• ≞	? -
≡	Hide Menu							
	Dashboard		Follow the steps below				Cancel	
\bigcirc	Multicloud Defense							
	Inventory			—				
Conf	iguration			Discover From SecureX	Use Credentials			
٢	Policies	>		Account Auto-discovery of On-Prem FMCs	Onboarding a device using an IP address or host name and a username			
\odot	Objects	>		from SecureX tenant	and password (Version 6.4+)			
•Å•	VPN	,	Firewall Management Center Cisco Secure Firewall Management Center					
Even	ts & Monitoring							
	Analytics	>						
٩	Change Log							
<u>(*</u>)	Jobs							
R	Tools & Services	>						
<u>ي</u>	Settings	>						

图 3.使用FMC的不同方法。

命名您的FMC,使其显示在CDO资产中。

使用正确的GUI端口输入FMC IP地址、主机名或FQDN,以便CDO可以为板载进程建立连接。

cisco	Defense Orchestrator Se	ervices				Q Searc	h	⊳ ∎-	¢٠	? -
≡	Hide Menu									
	Dashboard		Follow the steps below						Cancel	
\bigcirc	Multicloud Defense									
	Inventory		هي							
Con	figuration				Discover From SecureX	Use Credentials				
٢	Policies >		₩ V)		Auto-discovery of On-Prem FMCs	Onboarding a device using a address or host name and a us	n IP Imame			
\otimes	Objects >		Firewall Management Ce	nter	from SecureX tenant	and password (version 6.4	+)			
•Å•	VPN >		Cisco Secure Firewall Manager Center	ment						
Ever	sts & Monitoring				ENC.					
\mathcal{N}	Analytics >		Device Details		(Version 6.4+)					
٩	Change Log			Select Secu	re Device Connector					
(Jobs			≓Cloud C	Connector					
R	Tools & Services >			MyEMC	e					
⇔	Settings >			Location						
				Next						

图 4.FMC信息。

输入您的设备凭证。

cisco	Defense Orchestrato	or Services						Q Search		⊳,	۵.	⇔	?-
≡	Hide Menu												
	Dashboard		Follow the steps below								Cancel		
\bigcirc	Multicloud Defense												
	Inventory		a			_							
Conf	liguration				Discover F	rom SecureX	Use	Credentials					
٢	Policies	>			Auto-discovery	of On-Prem FMCs	Onboarding address or hos	a device using an IP t name and a username					
\odot	Objects	>			from Sec	ureX tenant	and passw	ord (Version 6.4+)					
•Å•	VPN	>	Firewall Management C Cisco Secure Firewall Manag Center	Senter pement									
Even	ts & Monitoring		2 Credentials	1									
	Analytics	>		0	ve recommend cr ustom user role v	eating a new On-Prer vith "Devices" and "S	m FMC user with ystem" permissio	a system-provided A ns for the sole purpo	se of onboarding. If you	ar a u onboard			
٩	Change Log			a all all all all all all all all all a	n On-Prem FMC a nboarding fails.	and then simultaneou	usly log into that	On-Prem FMC with th	ie same login credentia	ls,			
(*)	Jobs			N F	lote: Please ensu TDs to Cloud.	re the user has Admii	inistrator role if yo	ou are onboarding thi	s On-Prem FMC for mig	rating			
R	Tools & Services	>		A Refere r	recording place	a download the cert	ificate and varify	that it is authantic					
(2)	Settings	>		This preve	nts your credenti	als from being redired	cted to a third pa	rty.					
				Username									
				Usernam	e								
				Password							_		
				Password	d								

图 5.FMC凭证。

此时,入职流程已启动。选择Go To Services 以显示进程。

cisco	Defense Orchestrati	or Services			Q Search	Þ r • ≙• ≞	? -
≡	Hide Menu		Follow the stens helow			Cancel	
	Dashboard		ronow the steps below			Gancer	
0	Multicloud Defense						
	Inventory		afila				
Cont	liguration			Discover From SecureX	Use Credentials		
۲	Policies	>		Account Auto-discovery of On-Prem FMCs	Onboarding a device using an IP address or host name and a username		
\otimes	Objects	>	Eirowall Management Co	from SecureX tenant	and password (Version 6.4+)		
•Å•	VPN	>	Cisco Secure Firewall Manager Center	ment			
Ever	its & Monitoring		•				
	Analytics	>	1 Device Details	Name: MyFMC, Location:			
٢	Change Log		2 Credentials	Successfully connected to MyFMC at 2			
(*)	Jobs						
R	Tools & Services	>	3 Done	Your device is now onboarding. This may take a long time to finish. You can check the	he status of the device on the Devices and Services page.		
(2)	Settings	>		Add Labels @			
				Go To Services			

图 6.开始自行激活过程。

一旦您看到状态为 synced,则自行激活过程完成。

Hide Menu									,	MyFMC @		
Dashboard		Q, S	Search by Device Name, IP Address, or Serial Num	ber				e 🛨		On-Prem FMC	3 🕼	
Multicloud Defense	-	MC	Secure Connectors							Device Details		v
inventory		•	Name	Version	Devices	Туре	Status	Last Heartbeat		Version Geo Version	3 7.4.1-build 172	
Configuration			Cloud-Delivered FMC	20240307	e 1	Cloud-Delivered FMC	O Active	05/14/2024, 15:30:10		VDB Version SRU Version	384 2024-05-08-001-vrt	
Policies	>		MyFMC	7.4.1-build 172	⊜1	On-Prem FMC	O Synced	05/14/2024, 15:29:27		Onboarding Method	credential	
A VPN	, ,									O Sumand		
Events & Monitoring										Your device's cor	nfiguration is up-to-date.	
√r Analytics	>									Check For Ch	anges	
Change Log										Actions		~
(*) Jobs										Reconnect		
😤 Tools & Services	>									 Deployment Updates 2 	nt 15	
Settings	>									Workflows API Explore Settings Settings Assign Obj Remove On devices Management Devices	er C lects Prem FMC and its manage	d
										 Policies C Objects C 		

图 7.注册过程完成

2.-将FTD设备从本地FMC迁移到cdFMC

自注册FMC自注册过程完成后,即可开始迁移FTD设备。

导航到Tools & Services > Migrate FTD to cdFMC,在"将FTD迁移到cdFMC"页上,注意屏幕右上方有一个蓝色添加按钮,选择"添加"按钮。

ាត់ក្រៅក cisco Defense Orchestrat	or	Migrate FTD to cdFMC		Q	Search 🦙 -	٥.	¢1	@•	cisco-mex-east_ Imatuscl@cisco.com
Hide Menu		Q Search by Name, Device Name or IP Address							C +
Lashboard		Name Number of FTDs		Status	Last Updated				Actions
Multicloud Defense			No migrations found. Be	gin FTD Migration to cloud					
Inventory									
Configuration									
Policies	>								
Objects	>								
såe VPN	>								
Events & Monitoring									
√r Analytics	>								
(4) Change Log									
📥 Jobs									
😤 Tools & Services	•								
Settings	>								

图 8.将FTD迁移到cdFMC。

选择您的FMC,这是要从中迁移FTD的FMC。

dialia cisco	Defense Orchestrat	or Migrat	te FTD to cdFMC			Q Search	₽.	۵. 4	@ -	cisco-mex-east_ Imatuscl@cisco.com
≡	Hide Menu		Migrate FTD to cdFMC Migrate FTD from OnPrem FMC to cloud						(Cancel
	Dashboard		Select OnPrem FMC	Ensure that you have onboarded your O	Prem FMC to CDO via Credentials or	SecureX. Onboard an OnPrem FMC or I	earn more			
	Defense		1	After your OnPrem FMC has been onboa	rded, select it from the list.					
Conf	iguration			Available OnPrem FMCs (7.2* only) MyFMC						
٢	Policies	>		Next						
@	Objects VPN	>								
Ever	ts & Monitoring		2 Select Devices							
*	Analytics	>	3 Finish							
(k) (d)	Change Log									
*	Tools & Services	>								
٢	Settings	>								

图 9.选择OnPrem FMC。

选择您要迁移到cdFMC的FTD,您需要Commit Action 从下拉菜单中选择一个。

有两个选项:"保留在现场FMC进行分析"或"从现场FMC中删除FTD"。

Hide Menu		Migrate FTD to cdFMC Migrate FTD from OnPrem FMC to	cloud			Cancel
Dashboard		Salact OnPrem EMC	OnPrem EMC: MyEMC			
 Multicloud Defense 						
Inventory		2 Select Devices	Select FTD device(s) to migrate from OnPrem	FMC to cloud, and specify an action in bu	lk or per device.	Ensure that the DNS and other required configurations are correct for the
Configuration			Last Synced time : 9 minutes ago Sync from Onl	Prem FMC now		selected FTD(s) to reach CDO. Learn
(a) Policies	>		Q Name	Multi-Device Acti	ion Retain on OnPrem FMC for Analytics	 It's possible to revert the device back
Objects	>		Name Name	Domain	Commit Action	to its previously-managed On-Prem FMC within 14 days of successfully
«Å∗ VPN	>		FTDv-cloud	Global	Retain on OnPrem FM	C for Analytics Brs, the migration job is
Events & Monitoring					Delete FTD from OnPr	em FMC vith the actions you have
√r Analytics	>					n you. Learn more
(Change Log						
📥 Jobs						
😤 Tools & Services						
ô: Settings	>					
			1 device(s) selected		Displaying 1 of 1 results	
			Auto deploy to FTDs after successful n	nigration 0		
			Migrate FTD to cdFMC			

图 10.选择设备.

请注意,默认情况下会启用一个复选框,用于在成功迁移后自动将配置部署到FTD。如果以后要应用更改,可以选择禁用自动部署任 务。

选择Migrate to cdFMC 以开始迁移过程。

Image: Instantion Image: Instantion <th>⊟ Hide Menu</th> <th></th> <th>Migrate FTD to cdFMC Migrate FTD from OnPrem FMC to a</th> <th>cloud</th> <th></th> <th></th> <th>Cancel</th>	⊟ Hide Menu		Migrate FTD to cdFMC Migrate FTD from OnPrem FMC to a	cloud			Cancel
Multicloud Multicloud 	ashboard		Select OnPrem FMC	OnPrem FMC: MvFMC			
inventory Contiguration Import on the property on the property on the property on action in buck or per device. Import on the property	Multicloud Defense						
Configuration (a) Policies > (b) plots > (c) Dipets > (c) Dipets > (c) Change Log (c	Inventory		2 Select Devices	Select FTD device(s) to migrate from OnPrem	FMC to cloud, and specify an action in bulk	or per device.	Ensure that the DNS and other required configurations are correct for the
	Configuration			Last Synced time : 9 minutes ago Sync from OnPi	rem FMC now		selected FTD(s) to reach CDO. Learn
Image: Solution of the solution of	(a) Policies	>		Q Name	Multi-Device Actio	n Multiple Actions Selected	O It's possible to revert the device back
	Objects	>		Name	Domain	Commit Action	to its previously-managed On-Prem FMC within 14 days of successfully
Committed Monitoring 	₀å₀ VPN	>		FTDv-cloud	Global	Delete FTD from OnPrem FMC	migrating to the cloud-delivered FMC. After 14 days, the migration job is
Analytics > action from you. Learn more C Change Log C Change Log C Tools & Services > C Tools & Services > I device(1) selected Displaying 1 of 1 results	Events & Monitoring						committed with the actions you have selected without requiring further
 Change Log ibis icit & Services → icit &	√r Analytics	>					action from you. Learn more
i Jobs	(Change Log						
² Tools & Services ³ ³ ³ ³ ³ ³ ³ ¹	🛗 Jobs						
Settings Settings Auto deploy to FTDs after successful migration	😤 Tools & Services	->					
1 device(s) selected Displaying 1 of 1 results C Auto deploy to FTDs after successful migration	ô Settings	>					
I device(s) selected Displaying I of I results Auto deploy to FTDs after successful migration							
Auto deploy to FTDs after successful migration				1 device(s) selected		Displaying 1 of 1 results	
				Auto deploy to FTDs after successful mi	igration 0		
Migrate FTD to cdFMC				Migrate FTD to cdFMC			

图 11.开始迁移过程。

迁移过程现在已开始,通常需要大约15分钟才能完成。

一旦您注意到状态为 successful,则迁移过程完成。

⊟ Hide Menu	Q	Search by Name, Device Name or IP Address	Displaying 1 of	f 1 results		C +
Dashboard		Name	Number of FTDs	Status	Last Updated	Actions
Multicloud Defense		MyFMC_ftd-migration_2024-05-14-214124	1 devices	O Migrate FTD to cdFMC job is successful	May 14, 2024, 3:52:39 PM	
Inventory						
Configuration						
(a) Policies >						
Objects >						
₀Č+ VPN →						
Events & Monitoring						
\sqrt{r} Analytics \rightarrow						
(Change Log						
📥 Jobs						
😤 Tools & Services 🔷 🗧						
Settings >						

图 12.迁移过程完成

3.-提交更改

最后一步是提交迁移更改。如果您有14天的时间来提交迁移更改,并且不等待Cisco Defense Orchestrator自动提交更改,我们建议您 手动提交迁移更改。"提交迁移更改"(Commit Migration Changes)窗口显示向云交付的防火墙管理中心提交迁移或将设备还原到内部管 理中心的剩余天数。

要提交更改,请打开屏幕右侧的kebab菜单,然后选择 Commit Migration Changes.

Hide Menu		Q Search by Name, Device Name or IP Address	Displaying 1 o	f 1 results			C +
Dashboard		Name	Number of FTDs	Status	Last Updated		Actions
Multicloud Defense		B MyFMC_ftd-migration_2024-05-14-214124	1 devices	O Migrate FTD to cdFMC job is successful	May 14, 2024,	3:53:46 PM	-
Inventory						I Workflows	
Configuration						Download Report	
(a) Policies	`					✓ Commit Migration Changes	
Objects	>					會 Remove Migration Job	
₀å₀ VPN	>					L	1
Events & Monitoring							
√- Analytics	>						
(Change Log							
📥 Jobs							
👷 Tools & Services	->						
Settings	>						

图 13.提交迁移更改。

验证 Commit Action 其是否正确,并选择要提交更改的设备。

E Hide Menu	Q Search by Name, Device Name or IP Address	Commit Migration Changes X	
Dashboard	Name	You have 13 days remaining to commit migration to cloud or revert FTD management to On-Prem FMC.	Last Updated Actions
C Multicloud Defense	MyFMC_ftd-migration_2024-05-14-214124	Clicking Commit implements your specified actions now. You cannot "undo" later, if you do not implement the changes now, your specified actions will be applied automatically after the 14-day subhishing noticed and the second	May 14, 2024, 3:53:46 PM
Inventory		evaluation period ends.	
Configuration		Would you like to change any actions or revert any manager choices for the following devices?	
(a) Policies >		Q Name Retain on OnPrem FMC for Analytics	
Objects >			
"å₀ VPN →		Name Commit Action	
Events & Monitoring		FTDv-cloud Delete FTD from OnPrem FMC •	
√- Analytics >			
(Change Log			
Jobs		0 device(s) selected Displaying 1 of 1 results	
😤 Tools & Services >		The action for all chosen devices is final and can not be reverted once committed.	
🔅 Settings >			
		Cancel	

图 14.提交更改验证。

提交更改现在已开始,通常需要大约15分钟才能完成。

Hide Menu	0	Search by Name, Device Name or IP Address	Displaying 1 of	1 results		C +
ashboard		Name	Number of FTDs	Status	Last Updated	Actions
C Multicloud Defense		B MyFMC_ftd-migration_2024-05-14-214124	1 devices	Committing migrate FTD to cdFMC job is in progress	May 14, 2024, 4:02:19 PM	
Inventory						
Configuration						
Policies >						
Objects >						
₀Å₀ VPN →						
Events & Monitoring						
√ Analytics >						
(Change Log						
(+) Jobs						
😤 Tools & Services 🔷						

图 15.提交正在进行中的更改。

一旦将迁移状态显示为 Succesful ,将提交状态显示为 Comitted,则迁移完成。

	Q Search by Name, Device Name or IP Address	Displaying	of 1 results				C +
ashboard	Name	Number of FTDs	Status			Last Updated	Actions
Multicloud Defense	B MyFMC_ftd-migration_2024-05-14-214124	1 devices	 Migrate FTD to cdFMC job i 	s successful		May 14, 2024, 4:04:27 PM	
inventory	DEVICE NAME	MIGRATION STATUS		c	OMMIT STATUS		LAST UPDATED
Configuration	FTDv-cloud	 Migration Successful. Deleted devi 	e from On-Prem FMC successfully.	0	Committed. Delete	ed FTD from On-Prem FMC.	May 14, 2024, 4:02:44 PM
Policies >							
Objects >							
₀å, VPN →							
Events & Monitoring							
√r Analytics >							
(Change Log							
(+) Jobs							
😤 Tools & Services 💦 🔿							
{ĝ} Settings →							

图 16.迁移过程和提交更改已完成。

验证

导航到 Tools & Services > Firepower Manager Center并验证OnPrem FMC上的设备编号现在是否已减少。

另一方面,您可以看到cdFMC的设备数量是如何增加的,这意味着迁移过程已完成。

⊟ Hide Menu						 Cloud-Delivered FMC 	
ashboard	Q Search by Device Name, IP Address, or Serial Nu	mber			e +	Hostname cdo-cisco-mex-east s85img.app.us.edo.cisco.com	
C Multicloud Defense	FMC Secure Connectors					Version 20240307	
inventory	Name	Version Devic	ces Type	Status	Last Heartbeat	Actions	
Configuration	Cloud-Delivered FMC	20240307 😑 1	Cloud-Delivered FMC	O Active	05/14/2024, 16:00:10	O Check For Changes	
Policies	MyFMC	7.4.1-build 172 🖨 0	On-Prem FMC	O Synced	05/14/2024, 16:04:25	Updates Workflows	
Objects >						API Explorer	
eĞe VPN →						Management	
Events & Monitoring							
√r Analytics →						Devices Reliefer	
Change Log						Objects	
(*)						+C NAT	
Jobs						-5- Site to Site VPN	
😤 Tools & Services >						 Remote Access VPN Platform Settings 	
						System	
						● Configuration ■ Smart Licenses ● AMP Management ↓ Device Health ▲ Audit ● Cisco Cloud Events	

图 17.Firepower管理中心列表。

登录您的OnPrem FMC并验证已完成的任务,您可以看到如何从OnPrem FMC迁移和注销FTD。

Firewall Management Center Devices / Device Management Overview A	nalysis Policies Devices Objects	Integration	Deploy Q 🥵 🌣 🙆 admin ~ 🖓
View By: Group v		Deployments Upgrades 0 Health	asks 🛓 🌑 Show Notifications
All (0) • Error (0) • Warning (0) • Offline (0) • Nor	mal (0) • Deployment Pending (0) • Upgra	rde (0) 20+ total 0 waiting 0 running 0 retrying	20+ success 0 failures Q, Filter
Collarce All Name	Model Version Ch	Register Unregistration Urregistration Urregistration completed. FTDv-cloud - Device unregistered successfully	<u>95</u> ×
Ungrouped (0)		 Register Migration state change for 1 devices successfully completed 	<u>25</u> ×
		Device Configuration Export Export file uploaded to edge.us.cdo.cisco.com Download Export Package	5s ×
		 Register CDO state change for migration on 1 devices 	8s ×
		Remove	completed tasks

图 18.内部部署FMC任务验证。

相关信息

- 将威胁防御迁移到云交付的防火墙管理中心
- <u>技术支持和文档 Cisco Systems</u>

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