將Firepower威脅防禦遷移到雲交付的防火牆管理 中心

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簡介

本文檔介紹如何將Firepower執行緒防禦從OnPrem FMC遷移到雲交付的FMC。

必要條件

需求

思科建議瞭解以下主題:

雲端提供的Firepower管理中心(cdFMC) Cisco Defense Orchestrator (CDO) 安全Firepower威脅防禦(FTDv) Firepower Management Center (FMC)

採用元件

本檔案中的資訊是根據以下軟體版本:

- FTD 7.2.7
- cdFMC
- FMC 7.4.1

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除(預設))的組態來啟動。如果您的網路運作中,請確保您瞭解任何指令可能造成的影響。

背景資訊

Cisco Defense Orchestrator管理員使用者可以將威脅防禦裝置從運行版本7.2或更高版本的現場管 理中心遷移到雲交付的防火牆管理中心。此外,您還可以從現場管理中心1000/2500/4500將裝置遷 移到雲交付的防火牆管理中心。

在開始遷移過程之前,必須將內部管理中心模型升級到支援CDO的版本,並將其自註冊到CDO。只

有完成此步驟後,您才能繼續遷移與內部管理中心關聯的裝置。

設定

1.-將OnPrem FMC載入CDO租戶

這些圖片顯示了將OnPrem FMC載入到CDO租戶所需的初始設定過程。

在CDO主選單中,導航至FIrepower Management Center頁面上的 Tools & Services > Firewall Management Center. On,注意螢幕右上方有一個藍色增加按鈕,並選擇add按鈕。

cisco	Defense Orchestrator		Serv	ices						Q Search	
≡	Hide Menu										
	Dashboard		Q S	earch by Device Name, I	P Address, or Serial Num	nber					2 +
\bigcirc	Multicloud Defense		FMC	Secure Connectors							
	Inventory		•	Name		Version	Devices	Туре	Status	Last He	artbeat
Conf	liguration			Cloud-Delivered FMC		20240307	⊜1	Cloud-Delivered FMC	Active	05/14/2	2024, 15:00:10
٢	Policies	>									
\otimes	Objects	>									
<u>ە</u>	VPN 2	>									
Ever	its & Monitoring										
	Analytics	>									
٩	Change Log										
(*)	Jobs										
X	Tools & Services	>									
ŝ	Settings	>									

選擇 Firewall Management Center。

-ili-ili- cisco	Defense Orchestrator	Services				Q Search	⊳ ••	۵. ⇔	? -
≡	Hide Menu								
	Dashboard		What would you like to on	iboard?				Cancel	
\bigcirc	Multicloud Defense								
	Inventory				Select a Service				
Cont	liguration			A	⊨⊹	→ ←			
6	Policies	>		-	$\square \rightarrow$	···· →			
\odot	Objects	>		Firewall Management Center	Secure Event Connector	Secure Device Connector			
۰Å۰	VPN	>		FMC	SEC	SDC			
Ever	its & Monitoring		· · · · · · · · · · · · · · · · · · ·						
	Analytics	>							
٢	Change Log								
(*)	Jobs								
R	Tools & Services	>							
(2)	Settings	>							



選擇 Use Credentials。

圖1.Firepower管理中心頁面。

-ilialia 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			
\otimes	Objects	>		from SecureX tenant	and password (Version 6.4+)			
•Å•	VPN	,	Cisco Secure Firewall Management Center					
Even	ts & Monitoring							
	Analytics	>						
٩	Change Log							
(Jobs							
R	Tools & Services	>						
	Settings	>						

圖3.安裝FMC的不同方法。

為FMC命名,使其顯示在CDO資產中。

使用正確的GUI埠輸入FMC IP地址、主機名或FQDN,以便CDO可以為板卡進程建立連線。

cisco	Defense Orchestrato	services			Q Searc	ch 🕞 -	۵.	4	? -
≡	Hide Menu								
	Dashboard		Follow the steps below				Cance	el	
\bigcirc	Multicloud Defense								
	Inventory		a si	—					
Con	figuration			Discover From Account	t Onboarding a device using	an IP			
•	Objects			Auto-discovery of On from SecureX t	-Prem FMCs address or host name and a us tenant and password (Version 6.	sername 4+)			
~	VPN	``````````````````````````````````````	Firewall Management Ce Cisco Secure Firewall Manager	ment					
Ever	nts & Monitoring		Center					1	
	Analytics	>	1 Device Details	FMC (Version 6.4+)					
٩	Change Log			Select Secure Device Connector					
(Jobs			≓Cloud Connector					
R	Tools & Services	·		MyFMC					
	Settings	>		Location					
				Next					

圖4.FMC資訊。

輸入您的裝置認證。

cisco	Defense Orchestrato	or Services						Q Search		⊳,	¢۰	4	?-
≡	Hide Menu												
	Dashboard		Follow the steps below								Cancel		
\bigcirc	Multicloud Defense												
	Inventory		هي			a)				
Conf	liguration				Discover F	rom SecureX	Use	Credentials					
٢	Policies	>			Act Auto-discovery	of On-Prem FMCs	Onboardin address or ho	g a device using an IP st name and a username					
\otimes	Objects	>			from Sec	ureX tenant	and pass	word (Version 6.4+)					
•Å•	VPN	>	Cisco Secure Firewall Management C Cisco Secure Firewall Manag Center	gement					·				
Even	ts & Monitoring		2 Credentials	1									
	Analytics	>	-	W CI	Ve recommend cr ustom user role v	eating a new On-Pre vith "Devices" and "S	m FMC user wit! ystem" permissi	h a system-provided ons for the sole purp	Administrator user role ose of onboarding. If ye	or a ou onboard			
٢	Change Log			a all of all	n On-Prem FMC a nboarding fails.	and then simultaneou	isly log into that	On-Prem FMC with t	he same login credenti	als,			
(*)	Jobs			N F	lote: Please ensu TDs to Cloud.	re the user has Admi	nistrator role if y	ou are onboarding th	is On-Prem FMC for m	igrating			
R	Tools & Services	>		A Refere r	araceeding place	e download the cert	ificate and usri	u that it is authentic					
{}	Settings	>		This preve	nts your credenti	als from being redire	cted to a third p	arty.					
				Username									
				Usernam	10								
				Password							_		
				Password	d								

圖5.FMC憑證。

此時,入職流程已開始。選取Go To Services 以顯示處理。

cisco	Defense Orchestrate	or Services			Q Search	Þr· ↓· ≝ ⑦·
≡	Hide Menu					
	Dashboard		Follow the steps below			Cancel
0	Multicloud Defense					
	Inventory		a si	—		
Conf	liguration			Discover From SecureX	Use Credentials	
۲	Policies	>	₩ 🗸)	Auto-discovery of On-Prem FMCs	Onboarding a device using an IP address or host name and a username	
\otimes	Objects	>	Eirewall Management C	from SecureX tenant	and password (version 6.4+)	
۰Å۰	VPN	>	Cisco Secure Firewall Manag Center	ement		
Even	ts & Monitoring		•			
	Analytics	>	1 Device Details	Name: MyFMC, Location:		
٩	Change Log		2 Credentials	Successfully connected to MyFMC at 2	_	
<u>(*)</u>	Jobs					
R	Tools & Services	>	3 Done	Your device is now onboarding. This may take a long time to finish. You can check the	e status of the device on the Devices and Services page.	
{\$}	Settings	>		Add Labels O		-
				Go To Services		

圖6.開始自行啟用過程。

看到狀態 synced後,註冊過程即完成。

Hide Menu									>	MyFMC @		
Dashboard		Q, S	Search by Device Name, IP Address, or Serial Num	ber				2 +		On-Prem FMC	3 🕼	
Multicloud Defense	El el	MC	Secure Connectors							Device Details		Ŷ
Inventory		•	Name	Version	Devices	Туре	Status	Last Heartbeat		Version Geo Version	3 7.4.1-build 172	
Configuration			Cloud-Delivered FMC	20240307	⊜1	Cloud-Delivered FMC	O Active	05/14/2024, 15:30:10		VDB Version SBU Version	384 2024-05-08-001-wt	
Policies			MyFMC	7.4.1-build 172	⊜1	On-Prem FMC	O Synced	05/14/2024, 15:29:27		Onboarding Method	credential	
-& VPN										O Synced		
Events & Monitoring										Your device's co	nfiguration is up-to-date.	
√r Analytics										Check Por Ch	anges	
(Change Log										Actions		v
📥 Jobs										# Reconnect		
🛠 Tools & Services	•									 Deployment Updates 2 	nt Lor 7	
Settings >										Workflows API Explore Settings Assign Obj Remove Or devices	er 🕃 jects n-Prem FMC and its manage	ed
										Management		Ý
										Devices C Policies C Objects C		

圖7.入職程式已完成

2.-將FTD裝置從OnPrem FMC移轉到cdFMC

完成內部部署FMC自註冊程式後,我們便可開始遷移FTD裝置。

導航到Tools & Services > Migrate FTD to cdFMC,在「將FTD遷移到cdFMC」頁上,注意螢幕右上方有一個藍色增加按鈕,選擇「增加」按鈕。

ាត់ក្រៅក cisco Defense Orchestrat	or	Migrate FTD to cdFMC			Q Search	₽7-	٥.	¢	@•	cisco-mex-east Imatusci@cisco.com
Hide Menu		Q Search by Name, Device Name or IP Addres	\$:)						C +
bashboard		Name	Number of FTDs	Status		Last Updated				Actions
Multicloud Defense				No migrations found. Begin FTD Migration to	o cloud					
Inventory										
Configuration										
Policies	>									
Objects	>									
ada VPN	>									
Events & Monitoring										
√r Analytics	>									
(4) Change Log										
📥 Jobs										
😤 Tools & Services	•									
Settings	>									

圖8.將FTD移轉到cdFMC。

選擇您的FMC,這是您要移轉FTD的FMC。

altalia CISCO	Defense Orchestrat	₀r Migrate	e FTD to cdFMC			Q Search	⊳,	۵. ۳	@•	cisco-mex-east_ Imatusci@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 Or	Prem FMC to CDO via Credentials or	SecureX. Onboard an OnPrem FMC or	learn more			
0	Multicloud Defense		-							
	Inventory		(2)	After your OnPrem FMC has been onboa	rded, select it from the list.					
Cont	figuration			MyFMC V						
۲	Policies	>		Next						
\$	Objects	>								
۰ċ۰	VPN	>	2 Select Devices							
Ever	its & Monitoring		-							
÷	Analytics	>	3 Finish							
٩	Change Log									
⇔	Jobs									
R	Tools & Services	•								
(2)	Settings	>								

圖9.選擇OnPrem FMC。

選取要移轉到cdFMC的FTD,您需要Commit Action 從下拉式功能表選取。

有兩個選項:「保留於內部部署FMC以供分析」或「刪除FTD自內部部署FMC」。

Hide Menu		Migrate FTD to cdFMC Migrate FTD from OnPrem FMC to	cloud	Cancel
ashboard			0-0	
C Multicloud Defense		Select OnPrem FMC	University MyrMC	
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 OnPrem FMC now	selected FTD(s) to reach CDO. Learn
(a) Policies	,		Q Name Multi-Device Action Retain on OnPrem FMC for Analyti	C5 • 0 It's possible to revert the device back
Objects	,		Name Domain Commit Action	to its previously-managed On-Prem
				micration to the cloud-delivered FMC.
•0• VPN	,		Global Global Retain on OnPrem PA	Prem FMC for Analytics bits, the migration job is with the actions you have
Events & Monitoring			Delete FTD	from OnPrem FMC without requiring further
√r Analytics	>			
Change Log				
🖶 Jobs				
😤 Tools & Services	>			
ô Settings	>			
			1 device(s) selected Displaying 1	of 1 results
			Auto deploy to Filus after successful migration 👽	
			Migrate FTD to cdFMC	
			Ingular to to control	

圖10.選擇Devices。

0

請注意,預設會啟用一個核取方塊,用於在成功移轉後將組態自動部署到FTD。如果您稍後要套用變更,可以選擇停用自動部署工作

選取Migrate to cdFMC 以啟動移轉程式。

Hide Menu		Migrate FTD to cdFMC Migrate FTD from OnPrem FMC to	cloud			Cancel
ashboard		Select OnPrem FMC	OnPrem EMC: MyEMC			
Multicloud Defense						
Inventory		2 Select Devices	Select FTD device(s) to migrate from OnPrem F	MC 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 OnPro	Im FMC now		selected FTD(s) to reach CDO. Learn
(a) Policies	>		Q Name	Multi-Device Actio	n Multiple Actions Selected	 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
₀Č₀ VPN	>		FTDv-cloud	Global	Delete FTD from OnPrem FMC	migrating to the cloud-delivered FMC. After 14 days, the migration job is
Events & Monitoring						committed with the actions you have selected without requiring further
√ Analytics	>					action from you. Learn more
(Change Log						
📥 Jobs						
😤 Tools & Services						
🔅 Settings	>					
			1 device/e) estanted		Disabutes Lof Learning	
			Auto deploy to FTDs after successful mig	gration 0	and and a first the second	
			Migrate FTD to cdFMC			

圖11.開始移轉程式。

遷移過程現已開始,通常需要大約15分鐘才能完成。

一旦您注意到狀態為 successful,則遷移流程即完成。

⊟ Hide Menu	Q Search by Name, Device Name or IP Address	Displaying 1 of 1 results		C 🛨
Dashboard	Name	Number of FTDs Status	Last Updated	Actions
C Multicloud Defense	MyFMC_ftd-migration_2024-05-14-214124	1 devices O Migrate FTD to cdFMC job is succ	essful May 14, 2024, 3:52:39 PM	
Inventory				
Configuration				
(a) Policies >				
Objects >				
₀Å₀ VPN →				
Events & Monitoring				
√r Analytics >				
(Change Log				
(#) Jobs				
😤 Tools & Services 🔷 🔿				
Settings >				

圖12.移轉程式已完成

3.-提交更改

最後一步是提交遷移更改。如果您有14天的時間來提交遷移更改,如果您確信所做的更改,而不是等待Cisco Defense Orchestrator自 動提交更改,我們建議您手動提交遷移更改。「提交遷移更改」窗口顯示提交遷移到雲交付的防火牆管理中心或將裝置還原到內部管 理中心的剩餘天數。

要提交更改,請打開螢幕右側的kebab選單,然後選擇 Commit Migration Changes.

Hide Menu		Q Search by Name, Device Name or IP Address	Displaying 1 of	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						E Workflows	
Configuration						Download Report	
Policies	`					✓ Commit Migration Changes	
Objects	>					B Remove Migration Job	
₀å₀ VPN	,					L	J
Events & Monitoring							
√- Analytics	>						
(Change Log							
(+) Jobs							
😤 Tools & Services	->						
ô Settings	>						

圖13.提交遷移更改。

驗證 Commit Action 其是否正確,並選擇要提交更改的裝置。

Hide Menu	Q Search by Name, Device Name or IP Address	Commit Migration Changes	<		C +
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 evaluation period ends.		May 14, 2024, 3:53:46 PM	-
Inventory	• •	Would you like to change any actions or report any manager chaices for the following devices?			
Configuration		would you like to change any actions or revert any manager choices for the following devices?			
Policies >		Q Name Retain on OnPrem FMC for Analytics			
Objects >					
₀å₀ VPN →		Commit Action			
Events & Monitoring		FTDv-cloud Delete FTD from OnPrem FMC +			
√r Analytics >					
(k) Change Log					
📥 Jobs		0 device(s) selected Displaying 1 of 1 results			
🛠 Tools & Services 🕠		I ne action for all chosen devices is intal and can not be reverted once committed.			
			_		
		Cancel			

圖14.確認變更驗證。

提交更改現已開始,通常需要大約15分鐘才能完成。

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	Committing migrate FTD to cdFMC job is in progress	May 14, 2024, 4:02:19 PM	
Inventory						
Configuration						
(a) Policies	>					
Objects	>					
₀å₀ VPN	>					
Events & Monitoring						
√r Analytics	>					
(Change Log						
(#) Jobs						
😤 Tools & Services	•					
ô Settings	>					

圖15.確認正在進行變更。

一旦將遷移狀態顯示為 Succesful ,並將提交狀態顯示為 Comitted,則遷移完成。

	Q	Search by Name, Device Name or IP Address		Displaying 1 o	f 1 results				C +
ashboard		Name		Number of FTDs	Status			Last Updated	Actions
Multicloud Defense	8	MyFMC_ftd-migration_2024-05-14-214124		1 devices	Migrate FTD to cdFMC job i	s successful		May 14, 2024, 4:04:27 Pt	N
Inventory		DEVICE NAME	MIGRATION STAT	US			COMMIT STATUS		LAST UPDATED
Configuration		FTDy-cloud	 Migration Succ 	essful. Deleted device	from On-Prem FMC successfully.		Committed. Delet	ed FTD from On-Prem FMC.	May 14, 2024, 4:02:44 PM
Policies >	_								
Objects >									
₀å₀ VPN →									
Events & Monitoring									
\sqrt{r} Analytics \rightarrow									
Change Log									
(+) Jobs									
😤 Tools & Services 💦									
{ĝ} Settings →									

圖16.移轉程式與確認變更已完成。

驗證

導航到 Tools & Services > Firepower Manager Center,然後驗證您的OnPrem FMC上的裝置編號是否已減少。

另一方面,您可以看到cdFMC的裝置編號如何增加,這意味著遷移過程已完成。

Hide I	Menu									> Clo	ud-Delivered FMC
📥 Dashi	board	l	Q.	Search by Device Name, IP Address, or Serial Num	iber				e +	Hostn	ame cdo-cisco-mex-east s85img.app.us.edo.cisco.com
Multion Defension	cloud		FMC	Secure Connectors						Versic	m 20240307
🖂 Inven	tory			Name	Version	Devices	Туре	Status	Last Heartbeat	Actio	ons
Configuratio	n			Cloud-Delivered FMC	20240307	⊜1	Cloud-Delivered FMC	O Active	05/14/2024, 16:00:10	0 	Check For Changes Deployment
Polici	es	>		MyFMC	7.4.1-build 172	⊖0	On-Prem FMC	O Synced	05/14/2024, 16:04:25	() ()	Updates Workflows
Object	015	,								0	API Explorer
₀å₀ VPN		>								Man	agement
Events & Mo	nitoring									- The F	agement
√r Analy	tics	>								8	Devices
(Chan	ge Log										Objects
(*)										•0	NAT
Jobs										÷.	Site to Site VPN
😤 Tools	& Services	*								ő	Platform Settings
Settin Settin Settin Settin	ngs	>									
										Syst	em
											Configuration
											Smart Licenses
										0	AMP Management
										*	Device Health
										- fh	Audit
										0	Cisco Cloud Events

圖17.Firepower管理中心清單。

登入您的OnPrem FMC並驗證已完成的工作,您便可以看到如何從OnPrem FMC遷移及取消註冊FTD。

Firewall Management Center Devices / Device Management Overview A	nalysis Policies Devices Objects	Integration	Deploy Q 🧐 🌣 🎯 admin ~ 🗄 escure
View By: Group 💌		Deployments Upgrades O Health	fasks 🛓 📃 🌑 Show Notifications
All (0) • Error (0) • Warning (0) • Offline (0) • Nor	nal (0) 🗢 Deployment Pending (0) 🔹 Up	ograde (0) 20+ total 0 waiting 0 running 0 retrying	20+ success 0 failures Q. Filter
Collaose All Name	Model Version	Chassis	<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	<u>5s</u> ×
		Register	
		CDO state change for migration on 1 devices	8s ×
		Remove	e completed tasks

圖18.OnPrem FMC任務驗證。

相關資訊

- 將威脅防禦遷移到雲交付的防火牆管理中心
- <u>技術支援與文件 Cisco Systems</u>

關於此翻譯

思科已使用電腦和人工技術翻譯本文件,讓全世界的使用者能夠以自己的語言理解支援內容。請注 意,即使是最佳機器翻譯,也不如專業譯者翻譯的內容準確。Cisco Systems, Inc. 對這些翻譯的準 確度概不負責,並建議一律查看原始英文文件(提供連結)。