在FMC上配置高可用性

目錄

<u>新介</u>
<u>◇要條件</u>
採用元件
<u>]始之前</u>
配置輔助FMC
配置主FMC

簡介

本檔案介紹防火牆管理中心(FMC)上的高可用性(HA)組態範例。

必要條件

需求

本文件沒有特定需求。

採用元件

本文檔中的資訊基於Secure FMC for VMware v7.2.5。

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

本文檔的具體要求包括:

- 兩個FMC對等體必須位於相同的軟體版本、入侵規則更新、漏洞資料庫和輕量級安全包中
- 兩個FMC對等體必須具有相同的容量或硬體版本
- 兩個FMC都需要單獨的許可證

有關全套要求,請訪問<u>管理指南</u>。



警告:如果列出的要求不匹配,則無法配置HA。

所有硬體裝置都支援此過程。

開始之前

- 確保對兩個FMC的管理員訪問許可權
- 確保管理介面之間的連線
- 請花點時間檢查軟體版本,並確保完成所有必要的升級

設定

配置輔助FMC

步驟1.登入到將扮演輔助/備用角色的FMC裝置的圖形使用者介面(GUI)。



登入到FMC

步驟2.定位至「集成」標籤。

Firewall Management Center Overview / Dashboards / Dashboard	Overview	Analysis Policies	Devices	Objects	Integration	Deploy Q	📀 🌣 🕜 admin	▼ cisco SECURE
								Reporting
Summary Dashboard (switch dashboard) Provides a summary of activity on the appliance								
Network × Threats Intrusion Events	Status Geo	location QoS	+			Show the Last	1 hour	• II
								Add Widgets
 Unique Applications over Time 	$- \times$	► Top Web Applica	tions Seen		- ×	Top Client Application	ons Seen	- ×
No Data No devices registered. Click here to register a device.		Cli	No Data No devices regis ck here to registe	stered. r a device.		No Cilck t	No Data o devices registered. here to register a device	s.
Last updated 3 minutes ago		Last updated 3 minutes	ago			Last updated 3 minutes ago	5	
 Traffic by Application Risk 	$-\times$	Top Server Applic	cations Seen		- ×	Top Operating System	ms Seen	- ×
No Data								

導航到整合

步驟3.按一下Other Integrations。

Integration	Deploy	Q	0	₽	?	admin 🔻	ululu cisco
SecureX Security Analytics & Log Other Integrations	gging		Intellige Incider Source Elemer	ence nts es nts			
AMP			Setting	gs			
AMP Management							
Dynamic Analysis Conn	ections						

步驟4.定位至高可用性標籤。

導航到其他整合

Firewall Management Center Integration / Other Integrations / Cloud Service	Overview	Analysis	Policies Dev	rices Objects	Integration
Cloud Services Realms Identity Sources	High Availability	eStreamer	Host Input Client	Smart Software	e Manager On-Prem
導航至高可用性					
步驟5.按一下Secondary。					
Firewall Management Center Integration / Other Integrations / High Availability	Analysis Policies	Devices Objects	Integration	Deploy 🔍 🥝 🌣	Ø admin▼ disco SECURE
Cloud Services Realms Identity Sources High Availability	eStreamer Host Input C	lient Smart Software	e Manager On-Prem		Peer Manager
Cloud Services Realms Identity Sources High Availability	eStreamer Host Input C	lient Smart Software	e Manager On-Prem		

Select a role for this Management Center and specify peer details to setup high availability.

Role For This Firewall Management Center:

Standalone (No High Availability)

O Primary

Secondary

輸入資訊並為當前FMC選擇所需角色

步驟6.輸入主/主對等體的資訊,然後單Register擊。

							Peer Manager
Cloud Services	Realms	Identity Sources	High Availability	eStreamer	Host Input Client	Smart Software Manager On-Prem	
Select a role for	this Manag	ement Center and	specify peer details	s to setup higi	h availability.		
Role For This Firev	vall Managen o High Availa	nent Center: bility)					
O Primary							
 Secondary 							
Peer Details:							
After Firewall Man	agement Cer	ter high availability is	configured in virtual o	r cloud environr	ment, each registered	Firewall Threat Defense consumes an additional Firepower MCv Device license.	
Primary Firewall M	anagement C	enter Host:					
10.18.19.31							
Registration Key*:							
cisco123							
Unique NAT ID:							
Register							
† Either host or NAT I	D is required.						



附註:請注意註冊金鑰,因為它將用於活動的FMC。

Warning

This operation may affect critical processes running in the background. Do you want to continue?





附註:在建立HA時,GUI將重新啟動,確保沒有其它任務正在運行。

步驟8.確認您要註冊主要對等體。



Do you want to register primary peer: 10.18.19.31?





警告:一旦建立HA,裝置/策略/配置的所有資訊將從輔助FMC中刪除。

步驟9.檢驗輔助FMC狀態是否為「掛起」。

[Firewall I Integration /	Managem Other Integra	nent Center itions / Peer Man	ger Overview	Analysis	Policies	Devices	Objects	Integration	Deploy	Q	0	۵	🕜 admin 🔻	cisco S	ECURE
	Cloud Services	Realms	Identity Source	es High Availability	eStreamer	Host Inp	ut Client	Smart Softwar	e Manager On-Prem							
	Host		Last	Modified			S	Status				S	tate			
	10.18.19.31		202	-09-28 13:53:56			P	ending Registratio	in			•	0		/	· 🗑

配置主FMC

在主用/主用FMC上重複步驟1-4。

步驟5.按一下Primary。

Firewall Manage	ment Center rations / High Availability	Overview	Analysis	Policies	Devices	Objects	Integration	Deploy	۹	o 🜣	🕜 admin 🕻	cisco SECURE
Cloud Services Realms	Identity Sources	High Availability	eStreamer	Host Input Cli	ient Smar	rt Software M	Manager On-Prem					Peer Manager
Select a role for this Mana	gement Center and sp	pecify peer detail	ls to setup hig	gh availability.								
Role For This Firewall Manage	ment Center: ability)											
Primary												
Secondary												
Peer Details:												
Configure the secondary Man After Firewall Management Ce Secondary Firewall Managem	agement Center with deta enter high availability is co ent Center Host:	ails of the primary b onfigured in virtual o	pefore registrati or cloud enviror	on. nment, each regi	istered Firewa	ll Threat Def	ense consumes an ad	ditional Fire	power	MCv Dev	ice license.	
Registration Key*:												
Unique NAT ID:												
Register + Either host or NAT ID is required.												

步驟6.輸入有關輔助FMC的資訊,然後按一下Register。

							Peer Manager
Cloud Services	Realms	Identity Sources	High Availability	eStreamer	Host Input Client	Smart Software Manager On-Prem	
Select a role for	this Manag	ement Center and	specify peer deta	ils to setup hig	h availability.		
Role For This Firev	vall Managen o High Availa	nent Center: bility)					
Primary							
Secondary							
Peer Details:							
Configure the sec After Firewall Man Secondary Firewa 10.18.19.32	ondary Manag agement Cer II Manageme	gement Center with d nter high availability is nt Center Host:	letails of the primary configured in virtual	before registration or cloud environ	on. ment, each registered	J Firewall Threat Defense consumes an additional Firepower MCv Device license.	
Registration Key*:							
cisco123							
Unique NAT ID:							
Register	D is required.						



附註:使用與輔助FMC相同的註冊金鑰。

步驟7.此警告要求您確認,按一下 Yes.

Warning

This operation may affect critical processes running in the background. Do you want to continue?





步驟8.確認要註冊輔助FMC。

Warning

Secondary peer configuration and policies will be removed. After Firewall Management Center high availability is configured in virtual or cloud environment, each registered Firewall Threat Defense consumes an additional Firepower MCv Device license. Do you want to register secondary peer: 10.18.19.32?





附註:確保輔助FMC上沒有重要資訊,因為接受此提示會從FMC中刪除所有配置。

主節點和輔助節點之間的同步啟動;持續時間取決於配置和裝置。可以從兩個單元監視此過程。

	Firewall M ntegration / Of	anagen ther Integra	nent Center ations / High Availability	Overview	Analysis	Policies	Devices	Objects	Integration	Deplo	y Q	69 3	¢ 6	admin 🗸	cisco SEC	URE
Cloud S	Services F	Realms	Identity Sources	High Availability	eStreamer	Host Input	Client Sn	nart Software I	Manager On-Pre	m					Peer Manag	er
								5	Switch Peer R	oles 🌸	Break H	A		Pause Sy	nchronization	
			High ava These o Databas	ailability operations an perations include file e files synchronization	e in progress. The copy which may t n: 100% of 379M	e status messa take time to co B transferred	ges and alerts mplete.	on this page are	e temporary. Pleas	se check after h	igh availab	lity ope	rations	are comple	te. ×	
	Summary	/					S	/stem Statu	IS							
	Status		Temporarily	degraded- high ava	ilability operatio p	ns are in progress.				Local Active - Prima (10.18.19.31	ry	Sta	Ri andby (10,	emote - Seconda 18.19.32)	ry	
	Synchroniz	ation			4	A Failed	0	perating Syste	m	7.2.5				7.2.5		
	Active Syst	tem			10.1	18.19.31	S	oftware Versio	n	7.2.5-208			7.2	2.5-208		
	Standby Sy	ystem			10.1	18.19.32	М	odel	Secur	e Firewall Man Center for VMw	agement are	Mar	Secu nagem VI	re Firewall ient Center Mware	for	



附註:進行同步時,狀態應為Failed和Temporary degraded。此狀態顯示直到進程完成。

驗證

同步完成後,預期輸出為Status Healthy和Synchronization OK。

Fire Integ	wall Ma	nager er Integr	nent Center ations / High Availabilit	y Overview	Analysis	Policies	Devices	Objects	Integration	D	eploy	Q	0	¢	🕑 admin	cisco	SECURE
Cloud Servi	ices Re	alms	Identity Sources	High Availability	eStreamer	Host Input	Client 5	Smart Software M	lanager On-Pre	m						Peer N	anager
									Switch Peer R	oles	¢≱ E	Break H	A		II Pause Sy	nchroniz	ation
S	ummary							System Status	S								
s	itatus ynchronizat	tion			0	Healthy				Local Active - Pr (10.18.19	imary 9.31)		s	tandb (1	Remote y - Seconda 0.18.19.32)	ary	
A	ctive Syste	m			10.1	8.19.31		Operating System	n	7.2.5	5				7.2.5		
S	tandby Sys	tem			10.1	8.19.32		Software Version	1	7.2.5-2	808			7	.2.5-208		
								Model	Secur (re Firewall M Center for V	Manage /Mware	ement	М	Sec anage	cure Firewall ement Cente VMware	r for	
主節點	和輔	助節	點保持同	步;這很	正常。												

Firewall Management Center Integration / Other Integrations / High Availability	Devices Integration		۹ (admin •
Cloud Services High Availability eStreamer	Host Input Client			Peer Manager
		Switch	Peer Roles Break HA	II Pause Synchronization
Summary		System Status		
Status	Synchronization task is in progress		Local Standby - Secondary	Remote
Synchronization	OK 📀		(10.18.19.32)	(10.18.19.31)
Active System	10.18.19.31	Operating System	7.2.5	7.2.5
Standby System	10.18.19.32	Software Version	7.2.5-208	7.2.5-208
		Model	Secure Firewall Management Center for VMware	Secure Firewall Management Center for VMware

請花點時間檢查您的裝置在主和輔助上是否都正確顯示。

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)。