在FMC上配置高可用性

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简介

本文档介绍防火墙管理中心(FMC)高可用性(HA)的配置示例。

先决条件

要求

本文档没有任何特定的要求。

使用的组件

本文档中的信息基于Secure FMC for VMware v7.2.5。

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

本文档的具体要求包括:

- 两个FMC对等体必须位于相同的软件版本、入侵规则更新、漏洞数据库和轻量级安全包中
- 两个FMC对等体需要具有相同容量或硬件版本
- 两个FMC都需要单独的许可证

有关全套要求,请访问<u>管理指南</u>。



警告:如果列出的要求不匹配,则无法配置HA。

所有硬件设备均支持此过程。

开始使用前

- 确保管理员有权访问两个FMC
- 确保管理接口之间的连接
- 请花点时间检查软件版本,并确保完成所有必要的升级

配置

配置辅助FMC

步骤1.登录到将承担辅助/备用角色的FMC设备的图形用户界面(GUI)。



登录到FMC

步骤2.定位至"集成"选项卡。

Firewall Management Center Overview / Dashboards / Dashboard	Overview	Analysis Policies	Devices	Objects	Integration	Deploy Q	🔮 🌣 🔞 admin	▼ theth 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		$-\times$	Top Client Application	ns Seen	- ×
No Data			No Data	stored		No	No Data	
Click here to register a device.		Cli	ck here to registe	r a device.		Click h	ere to register a device	
Last updated 3 minutes ago		Last updated 3 minutes	ago			Last updated 3 minutes ago		
 Traffic by Application Risk 	- ×	 Top Server Applie 	cations Seen		$-\times$	 Top Operating System 	ms Seen	- ×
No Data								

导航到集成

步骤3.单击Other Integrations。

Integration	Deploy	Q	0	☆	?	admin 🔻	ululu cisco
SecureX Security Analytics & Lo Other Integrations	ogging	li S E	ntellige ncider Source Elemer	ence nts es nts			
AMP AMP Management Dynamic Analysis Con	nections		Setting	js			

导航到其他集成

步骤4.导航到高可用性选项卡。

Firewall Integration	Manageme Other Integratio	ent Center ons / Cloud Services	Ove	erview	Analysis	Policies	Devices	Objects	Integration
Cloud Services	Realms	Identity Sources	High Avail	lability	eStreamer	Host Input C	Client	Smart Software	Manager On-Prem
导航至高可用性									
步骤5.单击Secondary。									
Firewall Mana Integration / Other In	gement Center ategrations / High Avail	ability Overview	Analysis F	Policies [Devices Objects	Integration	Deple	y Q ⊘ ☆ (admin • diada SECURE
Cloud Services Realm	s Identity Source	s High Availability	eStreamer H	Host Input Clie	nt Smart Software	e Manager On-Prer	n		Peer Manager

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

输入信息并为当前FMC选择所需角色

步骤6.输入主/主对等体的信息,然后单Register击。

							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 high	n availability.		
Role For This Firew	all Managem	ent Center:					
 Standalone (No 	High Availat	pility)					
O Primary							
 Secondary 							
Peer Details:							
After Firewall Mana	gement Cen	ter high availability is	configured in virtual o	r cloud environr	nent, each registered l	Firewall Threat Defense consumes an additional Firepower MCv Device license.	
Primary Firewall Ma	anagement C	enter Host:					
10.18.19.31							
Registration Key*:							
cisco123							
Unique NAT ID:							
Register							
+ Either host or NAT II) is required.						



注意:请注意注册密钥,因为它将用于活动的FMC。

Warning

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





注意:确保在创建HA时没有运行其他任务,GUI将重新启动。

步骤8.确认要注册主要对等体。



Do you want to register primary peer: 10.18.19.31?





警告:一旦创建HA,设备/策略/配置的所有信息将从辅助FMC中删除。

步骤9.检验辅助FMC状态是否为pending。

Firewall M Integration /	Managem Other Integra	nent Cente ations / Peer M	er Ianager	Overview	Analysis	Policies	Devices	Objects	Integration	Deploy	Q	0	¢	Ø admin ▼	cisco	SECURE
Cloud Services	Realms	Identity So	urces	High Availability	eStreamer	Host Inpu	it Client	Smart Softwar	e Manager On-Prem							
Host		L	.ast Modifi	ed			S	Status				S	tate			
10.18.19.31		2	2023-09-2	28 13:53:56			P	Pending Registratio	n				0			/ 🗑

配置主FMC

在主用/主用FMC上重复步骤1-4。

步骤5.单击Primary。

Firewall Manage	ment Center arations / High Availability	Overview	Analysis	Policies D	evices Objects	Integration	Deploy	۹	o 🜣	🕜 admin 🔻	cisco SECURE
Cloud Services Realms	Identity Sources	High Availability	eStreamer	Host Input Clien	t Smart Software	Manager On-Prem					Peer Manager
Select a role for this Mana	gement Center and s	specify peer detai	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 Co Secondary Firewall Managem	agement Center with de enter high availability is o ent Center Host:	tails of the primary to configured in virtual	oefore registrati or cloud enviror	on. nment, each registe	red Firewall Threat De	fense consumes an ac	ditional Fire	power	MCv Dev	ice license.	
Registration Key*:											
Unique NAT ID:											
Register † Either host or NAT ID is required											

步骤6.输入有关辅助FMC的信息,然后单击Register。

						F	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 Fire	vall Manager	nent Center:					
 Standalone (N 	o High Availa	bility)					
0							
 Primary 							
O Secondary							
Peer Details:							
Configure the sec	ondary Manag	gement Center with d	etails of the primary	before registration	on.		
After Firewall Man Secondary Firewa	agement Cen I Managemer	iter high availability is nt Center Host:	configured in virtual	or cloud environ	ment, each registered	d Firewall Threat Defense consumes an additional Firepower MCV Device license.	
10.18.19.32							
Registration Key*:							
cisco123							
Unique NAT ID:							
Register							
† Either host or NAT	D is required.						



注意:使用与辅助FMC相同的注册密钥。

步骤7.此警告要求您确认,单击 Yes.

Warning

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





注意:确保没有其他任务正在运行。

步骤8.确认要注册辅助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?





注意:确保辅助FMC上没有重要信息,因为接受此提示会从FMC中删除所有配置。

主设备和辅助设备之间的同步开始;持续时间取决于配置和设备。可以从两个单元监控此过程。

	Firewall Manage ntegration / Other Inte	ement Center grations / High Availability	Overview	Analysis	Policies	Devices	Objects	Integration	Deploy	Q 🌀	\$	😢 admin 🔻	cisco SECURE
Cloud S	ervices Realms	Identity Sources	High Availability	eStreamer	Host Input	Client Sn	art Software M	Manager On-Prem					Peer Manager
								Switch Peer Role	es 🤹 E	Break HA		II Pause Syr	chronization
		High av These o Databas	ailability operations an perations include file te files synchronization	e in progress. The copy which may n: 100% of 379M	e status messa take time to co B transferred	ages and alerts omplete.	on this page are	e temporary. Please	check after high	availability	operati	ions are complet	^{e.} ×
	Summary					Sy	stem Statu	S					
	Status	A Temporarily	degraded- high ava	ilability operatio p	ns are in progress.			Ac	Local tive - Primary (10.18.19.31)		Stand	Remote Iby - Secondar 10.18.19.32)	у
	Synchronization			4	A Failed	0	perating Syste	m	7.2.5			7.2.5	
	Active System			10.1	18.19.31	S	oftware Version	n	7.2.5-208			7.2.5-208	
	Standby System			10.1	18.19.32	м	odel	Secure I Ce	Firewall Manage nter for VMware	ment	Se Manaç	ecure Firewall gement Center VMware	for



注意:同步进行时,预计状态会变为Failed和Temporary degraded。此状态显示直到进程 完成。

确认

同步完成后,预期输出为Status Healthy和Synchronization OK。

Firew Integrat	all Manager on / Other Integr	ment Center rations / High Availability	Overview	Analysis	Policies	Devices	o Objects	Integration	Deplo	y Q	0 ¢	🕜 admin 🕻	dialis SECURE
Cloud Service:	Realms	Identity Sources	High Availability	eStreamer	Host Input	Client	Smart Software N	lanager On-Prem					Peer Manager
							\$	Switch Peer Role	es 📫	Break H	A (II Pause Sy	nchronization
Sun	imary						System Status	5					
Stat	IS			0	Healthy			Ac	Local tive - Primar	у	Stan	Remote dby - Seconda	ary
Syn	hronization				OK 📀				(10.18.19.31)			(10.18.19.32)	
Acti	ve System			10.1	8.19.31		Operating System	n	7.2.5			7.2.5	
Star	dby System			10.1	8.19.32		Software Version		7.2.5-208			7.2.5-208	
							Model	Secure I Cer	Firewall Mana nter for VMwa	gement are	S Mana	ecure Firewall gement Center VMware	r for
主设备利	I辅助设	备保持同	步;这是〕	正常现≨	象。								

Integration / Other Integrations / High Availability	Devices Integration		Q	Cadmin 🔻 🖞 🖓 admin 🔹
Cloud Services High Availability eStreamer	Host Input Client			Peer Manager
		Switc	ch Peer Roles 🛛 🏟 Break HA	II Pause Synchronization
Summary		System Status		
Status	Synchronization task is in progress		Local Standby - Secondary	Remote
Synchronization	📀 ОК		(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

请花点时间检查您的设备在主设备和辅助设备上是否都正确显示。

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