# 使用防火牆管理中心(FMC)配置靜態路由

# 日 錄 箇介 必要條件 霊求 選求 採用元件 計景資訊 設定 超態 勤證

## 簡介

本文檔介紹如何透過防火牆管理中心在安全防火牆威脅防禦中部署靜態路由。

### 必要條件

需求

思科建議瞭解以下主題:

- 防火牆管理中心(FMC)
- 安全防火牆威脅防禦(FTD)
- 網路路由基礎。

採用元件

本文檔的資訊基於以下軟體和硬體版本:

- 適用於VMWare v7.3的防火牆管理中心
- 適用於VMWare v7.3的思科安全防火牆威脅防禦

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

裝置支援以下過程:

- 內部防火牆管理中心
- 適用於VMWare的防火牆管理中心
- cdFMC
- Cisco Secure Firewall 1000系列裝置
- Cisco Secure Firewall 2100系列裝置
- Cisco Secure Firewall 3100系列裝置
- Cisco Secure Firewall 4100系列裝置
- Cisco Secure Firewall 4200系列裝置
- 思科安全防火牆9300裝置
- 適用於VMWare的思科安全防火牆威脅防禦

### 設定

組態

步驟 1.在FMC GUI中, 導航至裝置>裝置管理。

步驟 2.辨識要設定的FTD,然後按一下鉛筆圖示以編輯FTD的目前設定。

Firewall Management Center Overview Analysis	Policies Devices Objects	Integration		Deploy 🔍 🗳 🕻	admin •
View By: Group v					Deployment History
All (1) • Error (0) • Warning (0) • Offline (0) • Normal (1)	<ul> <li>Deployment Pending (0)</li> <li>Upgra</li> </ul>	rade (0) • Snort 3 (1)		٩	Search Device Add
Collapse All					
Name	Model Vers	sion Chassis	Licenses	Access Control Policy	Auto RollBack
Ungrouped (1)					
172.16.0.41 Snort 3 172.16.0.41 - Routed	FTDv for VMware 7.3.0	0 N/A	Essentials, IPS (2 more)	recreates_policy	«»

步驟 2.按一下「路由」標簽。

Firewall Management Center Devices / Secure Firewall Interfaces	Overview Analysis	Policies	Devices Objects	Integration		Deploy Q 🧯	🕈 🔯 admin 🕶	enco SECURE
172.16.0.41 Cisco Firepower Threat Defense for VMware Device Routing Interfaces Inline Set	ts DHCP VTEP							Cancel
						Q. Search by name	Sync Device Add	Interfaces *
Interface	Logical Name	Туре	Security Zones	MAC Address (Active/Standby)	IP Address	Path Monitoring	Virtual Router	
Diagnostic0/0	diagnostic	Physical				Disabled	Global	/
GigabitEthernet0/0	inside	Physical	inside		2.2.2.1/24(Static)	Disabled	Global	/
GigabitEthernet0/1	outside	Physical	outside		172.16.0.60/24(Static)	Disabled	Global	/
GigabitEthernet0/2		Physical				Disabled		/
GigabitEthernet0/3		Physical				Disabled		/
GigabitEthernet0/4		Physical				Disabled		/
GigabitEthernet0/5		Physical				Disabled		/
GigabitEthernet0/6		Physical				Disabled		/
					Displaying 1-8 of 8	8 interfaces I< < Page 1	]0	n > >i ¢

### 步驟 3.在左側選單中選擇Static Route

Firewall Management Devices / Secure Firewall Rout	t Center Overview	Analysis Policies Devi	ces Objects Integration			Deploy	२ 🔮 🜣	admin      dealer     secure
172.16.0.41 Cisco Firepower Threat Defense for V	VMware							Save Cancel
Device Routing Interface	s Inline Sets DHCP V	VTEP						
Manage Virtual Routers								+ Add Route
Global 🔻	Network +	Interface	Leaked from Virtual Router	Gateway	Tunneled	Metric	Tracked	
Virtual Router Properties	▼ IPv4 Routes							
ECMP								
BFD	▼ IPv6 Routes							
OSPFv3								
EIGRP								
RIP								
Policy Based Routing								
✓ BGP								
IPv6								
Static Route								
Multicast Routing								
IGMP								
PIM								
Multicast Routes Multicast Roundary Filter								
analocust obtaining rates								
General Settings					No data to disp	alay IC < Page 1		of 1 >>> C
BGP								

步驟4.按一下(+) Add route選項。

Firewall Management Devices / Secure Firewall Routi	Center Overview	Analysis Policies Devic	es Objects Integration			Deploy C	२ 💕 🌣 🕲 adm	nin • dude SECURE
172.16.0.41 Cisco Firepower Threat Defense for V Device Routing Interfaces	Mware : Inline Sets DHCP V	ТЕР						Save Cancel
Manage Virtual Routers							[	+ Add Route
Global 👻	Network *	Interface	Leaked from Virtual Router	Gateway	Tunneled	Metric	Tracked	
Virtual Router Properties	▼ IPv4 Routes							
ECMP								
BFD	▼ IPv6 Routes							
OSPF								
OSPFV3								
RIP								
Policy Based Routing								
∼ BGP								
IPv4								
IPv6								
Static Route								
✓ Multicast Routing								
IGMP								
PIM								
Multicast Routes								
Multicast Boundary Filter								
General Settings								
BGP					No data to disp	play IS S Page 1		Join 5 51 G

步驟 5.在Static Route Configuration部分下,在Type、Interface、Available Network、Gateway和 Metric欄位中輸入所需資訊(如果需要,還有Tunneled和Route tracking)。

型別:點選IPv4或IPv6,具體取決於您增加的靜態路由型別。

Interface:選擇此靜態路由所適用的介面。

可用網路:在可用網路清單中,選擇目標網路。要定義預設路由,請建立一個地址為0.0.0/0的對 象,然後在此處選擇它。

網關:在網關或IPv6網關欄位中,輸入或選擇作為此路由的下一跳的網關路由器。您可以提供IP地 址或網路/主機對象。

度量:在度量欄位中,輸入到目標網路的跳數。有效值範圍為1至255;預設值為1。

隧道:(可選)對於預設路由,點選隧道複選框,為VPN流量定義單獨的預設路由

路由跟蹤:(僅限IPv4靜態路由)要監控路由可用性,請在路由跟蹤欄位中輸入或選擇定義監控策略的SLA(服務級別協定)監控對象的名稱。

Firewall Management Devices / Secure Firewall Routi	t Center Overview	Analysis Policies	Devices Objects Integration	Deploy Q 🚱 🌣 🔕 admin v 👘
172.16.0.41 Cisco Firepower Threat Defense for V Device Routing Interfaces	/Mware s Inline Sets DHCP	VTEP	Add Static Route Configuration	Save Carcel
Device Routing Interfaces Manage Virtual Routers Global Virtual Router Properties ECMP BFD OSPF OSPF OSPF EGRP RIP Policy Based Routing VBP IPv4 IPv6 Static Route VMulticast Routing IGMP PM Multicast Routes Multicast Routes Multicast Routes Multicast Routes	Network 4 Vetwork 4 Vetwork 5 Vetwork 7 Vetwork 7	Interface	Type:       ● IPv4       ● IPv6         Interface*       outside       •         (Interface starting with this icon @signifies it is available for route leak)       Available Network C*       +         Available Network C*       +       Selected Network         10.203.18.100       0.203.18.100       10.203.18.101         10.203.18.104       128.231.210.0-26       128.231.210.0-26         128.231.210.0-26       128.231.210.0-26       128.231.210.0-26         128.231.210.0-26       128.231.210.0-26       1         128.231.210.0-26       128.231.210.0-26       1         128.231.210.0-26       1       1         10.203.18.100       •       +         Metric:       1       •         1       •       •         1       •       •         1       •       •         1       •       •         1       •       •         1       •       •         1       •       •         1       •       •         1       •       •         1       •       •         1       •       •         1       •       <	+ Add Route
General Settings BGP			Cancel OK	ata to display IC I > > C



提示:可用的網路、網關和路由流量欄位需要使用網路對象,如果尚未建立這些對象,請 按一下每個欄位右側的(+)符號以建立新的網路對象。

步驟 6.按一下OK

步驟 7.儲存配置, 並驗證其顯示的新靜態路由是否與預期一致。

Firewall Management Devices / Secure Firewall Routing	Center Overview	Analysis Policies Devic	es Objects Integration			Deploy	익 🔮 🌣 🕲 admin •	cisco SECURE
172.16.0.41						1	You have unsaved changes	we Cancel
Cisco Firepower Threat Defense for VI	Mware							
Device Routing Interfaces	Inline Sets DHCP V	/TEP						
Manage Virtual Routers							4	Add Route
Global 🔻	Network +	Interface	Leaked from Virtual Router	Gateway	Tunneled	Metric	Tracked	
Virtual Router Properties	▼ IPv4 Routes							
ECMP	10.203.18.0	outside	Global	10.203.18.100	false	1		11
BFD	k IDuf Doutes							
OSPF	· IF YU HUANA							
OSPFv3								
DID DID								
Policy Based Routing								
✓ BGP								
IPv4								
IPv6								
Static Route								
✓ Multicast Routing								
IGMP								
PIM								
Multicast Routes								
Multicast Boundary Filter								
General Settings					Displaying 1.1 of 1 of 1	euro de la Dese 🚺		
BGP					Displaying 1-1 of 1 r	owa is is page	011	2 21 6

### 步驟7.導覽至Deploy並核取步驟2中所選FTD的核取方塊,然後按一下藍色部署圖示以部署新組態。

Firewall Management Devices / Secure Firewall Routing	Center Overview	Analysis Policies Devic	es Objects Integration				🔮 🌣 🚳 admin 🕶 🛗 👾 SECURE
172.16.0.41						٩	Advanced Deploy Deploy cel
Cisco Firepower Threat Defense for VI	Mware				_	172.16.0.41	Ready for Deployment
Device Routing Interfaces	Inline Sets DHCP V	TEP					
Manage Virtual Routers							
Global 🔹	Network +	Interface	Leaked from Virtual Router	Gateway	Tunnel		
Virtual Router Properties	▼ IPv4 Routes						
ECMP	10.203.18.0	outside	Global	10.203.18.100	false		
BFD	<ul> <li>IDuG Doutor</li> </ul>						-
OSPF	· IPVO NUGLES					1 selected 0 1 pending	₽.0
OSPFv3							
RIP							
Policy Based Routing							
∼ BGP							
IPv4							
IPv6							
Static Route							
V Multicast Routing							
IGMP							
Multicast Routes							
Multicast Boundary Filter							
General Settings						Diselution 1-1 of 1 mun 1/ / Done 4	
BGP						Displaying 1-1 of Hows /C C Page 1	ariyye

步驟8.驗證部署是否顯示為已完成。

Firewall Management Devices / Secure Firewall Routi	Center Overview	Analysis Policies Devic	es Objects Integration			Deploy Q	🔗 🔅 🔞 admin 🕶 🕬 secure
172.16.0.41 Cisco Firepower Threat Defense for V Device Routing Interfaces	Mware Inline Sets DHCP V	TEP				Q. 172.160.41	Advanced Deploy Deploy All cel Completed
Manage Virtual Routers							
Global 💌	Network +	Interface	Leaked from Virtual Router	Gateway	Tunnel		
Virtual Router Properties	▼ IPv4 Routes						
ECMP	10.203.18.0	outside	Global	10.203.18.100	false		
USPF	▼ IPv6 Routes						
OSPFv3						O 1 succeeded	12 +9
EIGRP							
RIP							
Policy Based Routing							
A Reb							
IPv6							
Static Route							
✓ Multicast Routing							
IGMP							
PIM							
Multicast Routes							
Multicast Boundary Filter							
General Settings						Displaying 1-1 of 1 rows 1< < Page 1	of1 > > C
0.00							

驗證

1. 使用SSH、Telnet或主控台記錄先前部署的FTD。

2. 運行命令show route和show running-config route

3. 驗證FTD路由表當前是否已使用S標誌部署靜態路由,以及該路由是否還顯示在運行配置中。

> show	route
Codes: Gateway	L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2 E1 - OSPF external type 1, E2 - OSPF external type 2, V - VPN i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2 ia - IS-IS inter area, * - candidate default, U - per-user static route o - ODR, P - periodic downloaded static route, + - replicated route SI - Static InterVRF, BI - BGP InterVRF of last resort is not set
C S C L	2.2.2.0 255.255.255.0 is directly connected, inside 2.2.2.1 255.255.255.255 is directly connected, inside 10.203.18.0 255.255.255.0 [1/0] via 10.203.18.100, outside 172.16.0.0 255.255.255.0 is directly connected, outside 172.16.0.60 255.255.255.255 is directly connected, outside

> show running-config route
route outside 10.203.18.0 255.255.255.0 10.203.18.100 1

### 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)。