ASA 8.x:使用ASDM的ASA上的基本IPv6配置示例

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<u>簡介</u>

本文檔介紹在思科自適應安全裝置(ASA)上啟用IPv6以便傳遞IPv6資料包的基本配置。此配置使用 自適應安全裝置管理器(ASDM)顯示。 思科ASA軟體版本7.0(1)本身支援IPv6資料包。但是,從 Cisco ASDM軟體版本6.2開始,支援通過ASDM進行配置。

<u>必要條件</u>

<u>需求</u>

本文件沒有特定需求。

<u>採用元件</u>

本文中的資訊係根據以下軟體和硬體版本:

- 8.2版的Cisco ASA
- Cisco ASDM版本6.3

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。如果您的網路正在作用,請確保您已瞭解任何指令可能造成的影響。

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慣例
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請參閱思科技術提示慣例以瞭解更多有關文件慣例的資訊。

背景資訊

為了通過ASA傳遞IPv6資料包,請完成以下高級步驟:

- 1. <u>在所需的介面上啟用IPv6。</u>
- 2. <u>根據需要定義IPv6訪問清單。</u>
- 3. <u>指定IPv6路由資訊。</u>

設定

完成以下詳細步驟。

在所需介面上啟用IPv6

- 1. 選擇Configuration > Device Setup > Interface, 選擇所需的介面, 然後按一下Edit。
- 2. 按一下IPv6頁籤以指定相關的IPv6設定。
- 3. 選擇Enable IPv6選項,然後在Interface IPv6 Addresses部分中按一下Add。

d Enable 1996 AD Attempts: eachable Time: A Lifetime: A Interval:	1 0 1800 200	NS Interval: miliseconds seconds seconds	1000 Suppress	: RA val in Milliseconds	miliseconds		
rface IPv6 Addre ik-local address: TEnable addres	s autoconfiguratio	n	-				
Address				EUI64			Add
							Delete
rface IPvó Prefix Address	res Preferr	red Lifetime/Date	1	Valid Lifetin	e/Date	Add	Delete
rface IPv6 Prefix Address	Prefer	red Lifetime/Date	1	Valid Lifetin	ne/Date	Add Edit Delete	Delete
rface IPvó Prefix Address	Prefer	red Lifetime/Date	1	Valid Lifetin	ne/Date	Add Edit Delete	Delete

📬 Add IPv6 Address for Interface	
Address/Prefix Length: 2001:DB8:CAFE:2800::4/64	
EUI 64	
OK Cancel Help	

5. 按一下「OK」以回復到「Interfaces」窗格。

Enable IPv6	Enforce El	UI-64	_			
DAD Attempts:	1	N5 Interval:	1000	miliseconds		
Reachable Time:	0	miliseconds				
RA Lifetime:	1800	seconds	Suppress	RA		
RA Interval:	200	seconds	RA Interv	val in Milliseconds		
terface IPv6 Addre	esses					
Link-local address:			-			
Enable address	s autoconfigur	ration				
Address				EUI64		Add
2001:db8:cafe:28						Sector Se
Early a radiant of the	00::4/64					Edit
	800:::4/64					Edt
terface IPv6 Prefix	800::4/64	ferred Lifetime/Date		Valid Lifetime/Date	Add	Edk Delete
terface IPv6 Prefix Address	xes Pre	eferred Lifetime/Date	8	Valid Lifetime/Date	Add	Edit
Renface IPv6 Prefix Address	x00::4/64 xes Pre	eferred Lifetime/Date	8	Valid Lifetime/Date	Add	Edk
terface IPv6 Prefix Address	000::4/64	eferred Lifetime/Date	5	Valid Lifetime/Date	Add Edt Delete	Edł
terface IPv6 Prefix Address	x00::4/64	ferred Lifetime/Date	8	Valid Lifetime/Date	Add Edt Delete	Edt
Address	xes Pre	eferred Lifetime/Date	8	Valid Lifetime/Date	Add Edk Delete	Edk
terface JPv6 Prefix Address	000::4/64	eferred Lifetime/Date	8	Valid Lifetime/Date	Add Edt Delete	Edł Delete
terface IPv6 Prefix Address	xes Pre	ferred Lifetime/Date	8	Valid Lifetime/Date	Add Edt Delete	Edt
Address	xes Pre	eferred Lifetime/Date	5	Valid Lifetime/Date	Add Edt Delete	Edł Delete
Address	xes Pre	eferred Lifetime/Date	5 	Valid Lifetime/Date	Add Edt Delete	Edt
Address	xes Pre	eferred Lifetime/Date	8	Valid Lifetime/Date	Add Edt Delete	Edt

根據需要定義IPv6訪問清單

1. 選擇Configuration > **Firewall > Access Rules**,然後按一下**Add**下拉按鈕以選擇**Add IPv6 Access Rule**選項。此時會出現一個新視窗

Action: Permit ③ Exercises Source: 2001:db8:CAFE:1000::/64 Destination 2001:db8:2c80:4000::/64 Service: p Description: © Enable Logging Logging Level: Default ♥ More Options OK Cancel Help -TOK , 然後按一下Insert After , 以便從Add下拉選單中新增另一個存取規則選 Insert After Access Rule
Source: 2001:db8:CAFE:1000::/64 - Destination 2001:db8:2c80:4000::/64 - Service: p Description: Cencel Help Cot Cancel Help TOK, 然後按一下Insert After,以便從Add下拉選單中新增另一個存取規則選 Insert After Access Rule
Destination 2001:db8:2c80:4000::/64 Service: p Description: Cancel Help TOK,然後按一下Insert After,以便從Add下拉選單中新增另一個存取規則選 Insert After Access Rule
Service: p Description: Cancel Help Default Cancel Help TOK,然後按一下Insert After,以便從Add下拉選單中新增另一個存取規則選
Description: Cancel Help TOK,然後按一下Insert After,以便從Add下拉選單中新增另一個存取規則選
✓ Enable Logging Logging Level: Default ▼ More Options ○K Cancel Help -下OK,然後按一下Insert After,以便從Add下拉選單中新增另一個存取規則選 Insert After Access Rule
Logging Level: Default ▼ More Options OK Cancel Help -下OK,然後按一下Insert After,以便從Add下拉選單中新增另一個存取規則選 Insert After Access Rule
More Options OK Cancel Help 一下OK,然後按一下Insert After,以便從Add下拉選單中新增另一個存取規則選 Insert After Access Rule
OK Cancel Help 一下OK,然後按一下Insert After,以便從Add下拉選單中新增另一個存取規則選 Insert After Access Rule
─下OK,然後按一下Insert After,以便從Add下拉選單中新增另一個存取規則選 Insert After Access Rule
「Insert After Access Rule」
Insert Atter Access Rule
nterface: Inside 🖌
ction: O Permit O Deny
ource: 2001:db8:2c80:1000::/64
estination any
ervice:
escription:
Enable Logging
Logging Level: Default
Logging Level: Default

3. 按一下「OK」(確定)。可在此處檢視配置的訪問規則

:

#	Enabled	Source	Destination	Service	Action	Hits	Logging	Time	Descripti
a 🚚	dmz IPv6 (1 in	plicit incoming rule)							
1		any	Any less secure ne	🗶 ip	🖌 Permit				Implicit rul
à 🚚	inside IPv6 (2	incoming rules)							
1 2		2001:db8:cafe:10	2001:db8:2c80:40	3P-10	🕲 Deny				
2	Image: A start of the start	2001:db8:2c80:10	 any 	icmp6	🖌 Permit				
50	mgmt IPv6 (0	implicit incoming rules)							
.54	outside IPv6 (0 implicit incoming rules)							
ا 🦊 🖨	partner-dmz I	Pv6 (1 implicit incoming rule)							
1		any	Any less secure ne	🕑 ip	🖌 Permit				Implicit rule
ė 🦊	Global IPv6 (1	implicit rule)							
1		any	any	<u>ae</u> ∕ip	3 Deny				Implicit ruk

4. 選擇IPv6僅訪問規則選項。

<u>指定IPv6路由資訊</u>

- 1. 選擇Configuration > Device Setup > Routing > Static Routes, 然後按一下Add以新增路由。
- 2. 按一下OK以恢復到Static Routes窗格。

Interface:	inside	~			
IP Address:	2001:db8:2c80	:1000:: 🔄	Prefix Leng	th: 64	
Gateway IP:	2001:db8:CAFE	:2800::9	Distance:	1	
itions					
 None 					
O Tunneled	(Default tunnel	gateway for VI	PN traffic)		
C Tracked					
Track ID:		Track IP Ad	idress:		
SLAID:		Target Inte	rface: dm	1	5
Monitor	ing Options				
Enabling th by pinging	e tracked option the track addres	starts a job fo s provided.	r monitoring	the state of t	he route,
thy burging.	ule crack audies	a hrowided.			

3. 選擇IPv6 Routes Only以檢視配置的路由。

Interface IP Address Netmask/ Gateway IP Metric/ Options

ASA路由IPv6資料包所需的基本配置到此結束。



目前沒有適用於此組態的驗證程序。

<u>疑難排解</u>

目前尚無適用於此組態的具體疑難排解資訊。

相關資訊

- ASA配置示例和技術說明
- <mark>配置IPv6編</mark>址
- 技術支援與文件 Cisco Systems