使用Direct Connect配置DNA空間和Catalyst 9800或嵌入式無線控制器(EWC)並對其進行故障 排除

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簡介

思科的最新9000系列接入點(9115、9117、9120、9130)能夠運行Embedded Wireless Controller(EWC)映像,而不是Mobility Express。EWC基於Cisco 9800 WLC代碼,允許其中一個接 入點充當最多100個其他AP的控制器。

EWC或Catalyst 9800可通過三種不同方式連線到DNA Spaces雲:

- 1. 直接連線
- 2. 通過DNA空間聯結器
- 3. 通過思科互聯移動體驗(CMX)現場裝置或虛擬機器

EWC的每個版本都支援與DNA Spaces整合。由於步驟相同,因此本文僅涉及Catalyst AP和9800上 EWC的直接連線的設定和故障排除。

重要:僅建議直接連線最多部署50個客戶端。對於較大的連線,請使用DNA空間聯結器。

必要條件

採用元件

- •嵌入式無線控制器映像版本17.1.1s或使用16.12.1的Catalyst 9800-L
- 9115美聯社

• DNA空間雲

本文中概述的步驟假設已部署EWC或9800並具有有效的Web介面和SSH。

設定

網路圖表



設定控制器

DNA Spaces雲節點和控制器通過HTTPS協定進行通訊。在此測試設定中,控制器被置於具有完全 網際網路訪問的NAT之後。

安裝根證書

設定控制器之前,需要下載DigiCert根憑證。使用SSH連線到控制器並運行:

WLC# conf t Enter configuration commands, one per line. End with CNTL/Z. WLC(config)# ip name-server <DNS ip> WLC(config)# ip domain-lookup WLC(config)# crypto pki trustpool import url https://www.cisco.com/security/pki/trs/ios.p7b Reading file from http://www.cisco.com/security/pki/trs/ios.p7b Loading http://www.cisco.com/security/pki/trs/ios.p7b !!! % PEM files import succeeded. 預設情況下,EWC使用Cisco DNS伺服器配置DNS,但這是9800控制器的必需步驟。

要驗證是否已安裝證書,請運行:

EWC(config)#**do show crypto pki trustpool | s DigiCert Global Root CA** cn=DigiCert Global Root CA cn=DigiCert Global Root CA

通過Web介面配置

控制器必須先設定NTP和DNS伺服器,並至少加入一個AP,然後才能連線到DNA Spaces。

開啟EWC的Web介面並導航到Administration > Time。確保WLC與NTP伺服器同步。 預設情況下 ,EWC預配置為使用ciscome.pool.ntp.org NTP伺服器。對於9800,您可以使用相同的NTP或首選 的NTP伺服器:



導覽至Administration > DNS,確認已新增DNS伺服器。預設情況下,EWC已預配置為使用Cisco Open DNS伺服器:



在**Configuration > Wireless > Access Points**下,驗證至少有一個AP已加入。此AP可以是運行 EWC的AP:

Cisco Embedo	ded Wireless Controller o	on Catalyst Access Po Welcome	oints admin 🛛 🛠 🌾 🖺	* 🕸 🛛 🕬	rch APs and Clients Q
Q Search Menu Items	Configuration * > Wireless * >	Access Points			
Dashboard	 All Access Points 				
Monitoring >		Current Primary	Current Stand	Preferred Mas	
⅔ Configuration >		9115	Not Applicable	Not Configured	
Administration N	lumber of AP(s): 1				
X Troubleshooting	AP V AP V Name Model Slots	Admin ~ IP ~ Status Address	Base × Radio AP MAC Mode	 Operation < Policy < Status Tag 	Site V RF V Tag Tag Tag Source
	9115 🔥 C9115AXI-E 2	• 192.168.1	.11 f80f.6f15.3fc0 Flex	Registered Vasa5	default- default- Static site-tag rf-tag
	4 4 1 ⊨ 10 v	items per page			1 - 1 of 1 access points C

在DNA Spaces雲中,從首頁導航到**設定 > 無線網路 > 直接連線WLC/Catalyst 9800**。按一下**檢視 令牌**:



Switch tab to Cisco Catalyst 9800。複製令牌和URL:



在WLC Web介面中,導覽至**Configuration > Services > Cloud Services > DNA Spaces**。貼上 URL和身份驗證令牌。如果使用HTTP代理,請指定其IP地址和埠。



驗證是否已在Monitoring > Wireless > NMSP下成功建立連線。服務狀態應顯示綠色箭頭:



跳過下一章並轉到「將控制器匯入到位置層次」。

通過CLI配置

驗證NTP是否已配置和同步:

EWC#**show ntp associations**

address ref clock st when poll reach delay offset disp *~45.87.76.3 193.79.237.142638 1024 377 10.919 -4.315 1.072 +~194.78.244.172 172.16.200.253 2646 1024 377 15.947 -2.967 1.084 +~91.121.216.238 193.190.230.66 2856 1024 377 8.863 -3.910 1.036 * sys.peer, # selected, + candidate, - outlyer, x falseticker, ~ configured

可以使用ntp伺服器<ntp_ip_addr>命令新增新的NTP服務器。

驗證是否已配置DNS伺服器:

EWC#**show ip name-servers** 208.67.222.222 208.67.220.220

可以使用ip name-server <dns_ip>命令新增新的DNS伺服器。

要確認AP已加入,請執行以下操作:

EWC	C# show a <u>r</u>	o status		
AP	Name	Status	Mode	Country
911	 15	Enabled	Local	BE

如前所述,訪問DNA Spaces cloud,導航至**Setup > Wireless Networks > Connect WLC/Catalyst** 9800 Directly,然後點選View Token:



Switch tab to Cisco Catalyst 9800。複製令牌和URL:



運行以下命令:

```
CL-9800-01(config)#no nmsp cloud-services enable
CL-9800-01(config)#nmsp cloud-services server url [URL]
CL-9800-01(config)#nmsp cloud-services server token [TOKEN]
CL-9800-01(config)#nmsp cloud-services enable
CL-9800-01(config)#exit
```

要驗證是否已成功建立與DNA Spaces雲的連線,請運行:

將EWC匯入位置層次結構

步驟1.其餘配置將在DNA空間中完成。在Setup > Wireless Networks > Connect WLC/Catalyst 9800 Directly下,按一下Import Controllers。

Cisco DNA Sp	oaces 🖛		Active APs 1 of 2000	G
Connect WLC/Catal your wireless netwo	/LC/Catalyst 9800 Directly yst 9800 Directly is an easy way to get your wireless network con rk.	nnected to Cisco DNA Spaces. No need to upgrade Wireless I	AN Controllers or reconfigure	^
1 Install You can inst View root ce	Root Certificate		Need Help? Access the below links to view detailed help.	1
2 Config Configure th	ure Token in WLC token in WLC to establish the connection.		View Configuration Steps	3
	14 Total controller(s)	View Token	System Requirements	3
3 Import Once the cor	Controllers into Location Hierarchy trollers are connected, you can import them into location hierarchy			
	Controller(s) imported to	Import Controllers		

步驟2.選中帳戶名稱旁邊的單選按鈕,然後按一下「下一步」。如果您已經新增了一些位置,它們 將顯示在以下清單中:

	C' û		0	https://dnaspaces.eu/se	tup/wirelessnetw	ork		🗵 🖗 🕁			
≡ 0	Cisco	DNA Spaces	6 🖽		Import	t Controll	ers				×
C	onneo	ct your wire	eles: Cata	s network lyst 9800 Direct		W	nere do you Choose a locatio	N want to impo on that you want to i	ort this Contro mport this controller	oller	
	Conner your w	ct WLC/Catalyst 980 ireless network.) Directl	y is an easy way to get your v	EQ Se	earch Locations			_		۲
	1	Install Root You can install the ce View root certificate (Cer	tificate rom WLC CLI							
	2	Configure The token in	Toke WLC to	n in WLC establish the connection.							
	3	Import Con	troll	ers into Location							
		Once the controllers i	No Col	ected, you can import them into							
F	Cor	nnect via CN	AX T	ethering							
	Tetheri	ing is an easy way to	get you	r wireless network connected	1						
	Cor	nnect via Sp	aces	s Connector	Next						

步驟3.找到控制器IP地址,選中其旁邊的框,然後按下一步:

к

Import Controllers

Vasilis/Varants'
0
1 April
1 Apr
1 April
1 April

步驟4.由於尚未新增其他位置,只需按一下「完成:

×

步驟5.系統將彈出提示WLC已成功匯入位置層次結構:

\bigcirc

Controller successfully imported to location hierarchy!

Total controllers added : 1 Total number of APs : 1 Total number of Locations : 0

Would you like to organize your location hierarchy

Yes, take me to location hierarchy

No, Continue with Setup

現在WLC已成功連線到雲,您可以開始使用所有其他DNA空間功能。

附註:NMSP流量始終使用無線管理介面與DNA Spaces或CMX通訊。在9800控制器組態中無 法變更此設定。介面編號不相關,將使用9800控制器上指定為無線管理介面的任何介面。

在Cisco DNA Spaces上組織位置層次結構

如果需要新的位置層次結構,或者如果在**將9800控制器匯入Cisco DNA空間**一節的步驟4中未新增 位置,則您可以手動配置它們。

位置層次結構是DNA空間最重要的功能之一,因為它用於分析資訊,並且基於它來配置捕獲入口的 規則。位置層次結構越細化,就越能夠控制捕獲門戶的規則以及可以從DNA空間檢索的資訊。

DNA Spaces上的位置層次結構功能與Cisco Prime Infrastructure或Cisco CMX的傳統層次結構的工作方式相同,但命名卻截然不同。當控制器被匯入到位置層次結構中時,它相當於傳統層次結構中

的**園區**;在控制器下**,可**以建立等同於建築物的**組**;然後,在組下,可以配置等同於floor的網路,最後 ,在網路下,可以建立區域使其保持與傳統位置層次結構中的區域相同的級別。總而言之,這就是 等價物:

表1.傳統等級與DNA空間等級的等價性。

DNA空間層次	傳統層次結構
控制器(無線網路)	園區
群組	建築
網路	樓層
區域	區域

步驟1.配置組。組根據地理位置、品牌或其他任何型別的分組(取決於業務)組織多個位置或區域 。導航到**位置層次結構**,將滑鼠懸停在現有無線控制器上,然後按一下**建立組**。

NEX-	-EAST-1		• • •
÷	5508-1-CMX	1 1 0	0 0 5
	5508-2-Connector-Campus	(2) (2) (3)	• • •
	1 5520-DirectConnect	 (1) (9) 	1 0 0
	9800L-Mexico-Campus	1 1 (MO	RE ACTIONS
	• Succonfigured	() () () R	ename 9800L-Mexi
	efmLocation	2 2 C	dit
	🕼 Lisboa	3 () (A	dd Network
		А	dd/Edit Metadata
		D	elete Location

要更改位置級別的名稱,請將滑鼠懸停在網路上,然後單擊「重新命名」。

步驟2.輸入組名稱,然後選擇**未配置**位置,該位置包括隨控制器匯入的所有AP,這些AP隨後將根據 需要對映到網路和區域。按一下「Add」。

Add Group

MXC-10-Building	9
C-10-Building	9
lect Location	
Select Location	1
Unconfigured	



步驟3.建立網路。在Cisco DNA Spaces中,網路或位置定義為物理建築物內所有接入點合併為位置。將滑鼠懸停在組上,然後按一下Add Network。

MEX-	-EAST-1	11 0 0 4 0	
+	6 5508-1-CMX		
+	1 5508-2-Connector-Campus		
+	1 5520-DirectConnect		
Ξ	1 9800L-Mexico-Campus		
	• MXC-10-Building		×
+	efmLocation	(2) (2) (6 Rename MXC-10	0-Bui
+	🕅 Lisboa	3 1 Create Group	
		Edit Group Add Network	
		Add/Edit Metada	ta
		Delete Location	

附註:這是位置層次結構中最重要的節點,因為業務見解和位置分析計算是從這裡生成的。

步驟4.輸入網路名稱和接入點字首,按一下**Fetch。**DNA Spaces提取所有與該控制器相關聯且帶有 該字首的AP,並允許將AP新增到樓層。只能輸入一個字首。

Add Network

10.10.30.5
NETWORK NAME Second Floor
28 Fetch
Matching access points will be shown below
1 Following access points are discovered based on provided prefix and will be added to this network.
2802AP-9800L
Done

步驟5.在網路需要更多字首的情況下。按一下網路名稱,在Location Info頁籤中按一下Access Points Prefix Used旁邊的Edit按鈕。

	Location Info Access Points	Rules	Maps	Team	Camera	
Second Floor						
O NODE TYPE	NETWORK REFERENCE					
6 Network	U 28					

輸入字首名稱,按一下**+Add Prefix**,然後按一下**Save。**根據需要對所有字首重複上述操作,這將將 AP對映到網路,並允許稍後將AP對映到區域。

Location name			
Second Floor			
Choose Access Points that are part of this location Provide one or more prefixes that can be used to automatically match the Access Points belonging to this location			
Prefix: 28 1 Access Parts match the profix *28* 2802AP-9800L	+ Add Prefix Second Floor	Added Prefixes 28 1.Anv	

Cancel Save

步驟6.建立區域。區域是建築物/位置部分中的接入點集合。它可以根據物理建築或組織中的部門進

行定義。將滑鼠懸停在「Network(網路)」上,然後選擇**「Add Zone(新增區域)」。**

K-EAST-1	12 8 0 4 0 0
5508-1-CMX	
5508-2-Connector-Campus	2 2 0 0 0
1 5520-DirectConnect	2 (1 (0 (1 (0 (0
9800L-Mexico-Campus	2 (1 (0 (0 (0
MXC-10-Building	2 (1 (0 (0 (0 (0
Second Floor	
• SUnconfigured	1 0 Rename Second Flo
I efmLocation	2 2 C Add Zone
🛛 Lisboa	(3) (1) (2) Delete Location

步驟7.配置**區域名稱**並為區域選擇AP,然後按一下Add:

Add Zone Q ×
Wireless-Zone
Select Access Points
Network Access Points
2802AP-9800L (10:b3:d6:94:00:e0)



常見問題

Monitoring > Wireless > NMSP(或運行show nmsp cloud-services summary命令)下的網路介面頁面 通常會顯示有關連線故障的足夠資訊。以下螢幕截圖顯示了幾個常見錯誤:

1.未設定DNS時,錯誤訊息「Transfer error(6):無法解析主機名「」顯示:



未安裝證書或未配置NTP會導致出現以下錯誤消息:"*傳輸錯誤(60):SSL對等證書或SSH遠端金鑰未 正常*":

↔ ↔ ↔ ↔	🛛 🔒 https://192.168.1	10/webui/#/nmsp	••• 🖂 🖗 1	<u>۵</u>
Cisco Em	bedded Wireless Co	ontroller on Catalyst Access Poir Welcome ad	nts Imin 🛛 希 🌾 🖺	Image: Search APs and Clients Image: Optimized state
Q. Search Menu Items	Monitoring * > Wire	eless * > NMSP		
🚃 Dashboard	Cloud Services	DNA Spaces Information Statistics	Service Subscription	Controller Settings
Monitoring >	DNA Spaces Ser	vices Status	DNA Spaces Service Statistics	5
🔾 Configuration 🔹	Server	https://vasilijeperovic.dnaspaces.eu	Tx DataFrames	0
(Ô) Administration	IP Address	208.67.222.222	Rx DataFrames	0
Y Troubleshooting	DNA Spaces Service	Enabled	Tx Heartbeat Request	2
	Connectivity	DOWN	Heartbeat Timeout	0
	Service Status	•	Rx Subscr Request	0
	Last Request Status	Transfer error (60): SSL	Tx DataBytes	0
		peer certificate or SSH	Rx DataBytes	0
		remote key was not OK	Tx Heartbeat Fail	1
	Heartbeat		Rx Data Fail	0
	Status		Tx Data Fail	0

放射性追蹤

EWC和其他9800控制器一樣,支援永遠線上的放射性追蹤。為了收集這些地址並檢視為什麼沒有建 立連接,需要知道EWC正在聯絡哪個DNA空間IP地址。可從**Monitor > Wireless > NMSP**下或透過 CLI找到以下內容:

EWC# show nmsp status	5				
NMSP Status					
CMX IP Address	ActiveTx Echo Resp	Rx Echo Req	Tx Data	Rx Data	Transport
63.33.127.190	Active0	0	38	2	HTTPS

此測試設定中的EWC正在連線到63.33.127.190。複製此IP地址並導航到**故障排除 > 放射跟蹤**。點 選Add,貼上IP地址,然後點選Generate:

← → C ²	🛛 ଢ https://192.168.1.10/webui/#/troubleshooting	•••	${igsidential}$	<u>ا</u>	\$
Cisco Em	bedded Wireless Controller on Catalyst Access Points Welcome admin	n	V o		¢
Q. Search Menu Items	Troubleshooting - > Radioactive Trace				
Dashboard	Conditional Debug Global State: Stopped				
Monitoring >	+ Add × Delete ✓ Start Stop				
Configuration	MAC/IP Address Trace file				
O Administration	63.33.127.190 I≤ 1 I≤ 1 I≤ 1 I≤ 10 I≤ 1 I≤ 10 I≤ 1 I≤ 1<	rate ems			
X Troubleshooting					

選擇**Generate logs** for the last 10 minutes並按一下Apply。啟用內部日誌可能會生成大量可能難以 分析的資料:

Enter time interval		×
Enable Internal Logs	0	
Generate logs for last	10 minutes	
	O 30 minutes	
	O 1 hour	
	 since last boot 	
	O 0-4294967295 seconds •	
D Cancel	Apply to Device	

防火牆封鎖HTTPS的情況下進行放射性追蹤的範例:

2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmsp-main] [11100]: (note): CMX [63.33.127.190]:[32]: closing 2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (debug): Called 'is_ready' 2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmsp-main] [11100]: (info): CMX [63.33.127.190]:[32]: Processing connection event NMSP_APP_LBS_DOWN(201) 2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmsp-db] [11100]: (info): Started or incremented transaction (TID: -1, ref count: 1, started: 0, abort: 0) 2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmsp-enc] [11100]: (debug): Decoding control message structure 2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmsp-enc] [11100]: (debug): Control structure was successfully decoded from message 2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmsp-db] [11100]: (debug): Retrieving CMX entry: 32 2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmsp-db] [11100]: (ERR): CMX entry 32 not found 2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmsp-main] [11100]: (debug): CMX Pool processing NMSP message (id: event NMSP_APP_LBS_DOWN(201), length: 48, client: 0, CMX id: 32) 2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmsp-db] [11100]: (info): Ending transaction (TID: -1, ref count: 1, started: 0, abort: 0) 2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmsp-db] [11100]: (info): Ended transaction (TID: -1, ref count: 0, started: 0, abort: 0) 2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmsp-client] [11100]: (debug): NMSP IPC sent message to NMSPd NMSP message (id: event NMSP_APP_LBS_DOWN(201), length: 48, client: 0, CMX id: 32) successfully 2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmsp-main] [11100]: (info): CMX [63.33.127.190]:[32]: successfully broadcasted IPC event NMSP_APP_LBS_DOWN(201) 2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmsp-main] [11100]: (note): CMX [63.33.127.190]:[32]: down 2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmsp-main] [11100]: (debug): NMSP timer 0xab774af4: close 2020/02/24 18:40:30.774 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (debug): Decrease reference count for https_con object: Now it's 1 成功連線到雲的放射性跟蹤示例: 2020/02/24 18:53:20.634 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (note): Server did not reply to V2 method. Falling back to V1. 2020/02/24 18:53:20.634 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (debug): Cloud authentication 2 step failed, trying legacy mode 2020/02/24 18:53:20.634 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (note): Set connection status from HTTP CON AUTH PROGRESS 2STEP to HTTP CON AUTH IDLE 2020/02/24 18:53:20.634 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (debug): tenant ID:

vasilijeperovic 2020/02/24 18:53:20.634 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (debug): hostname is: data.dnaspaces.eu 2020/02/24 18:53:20.635 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (note): Starting authentication V1 using Heartbeat URL https://data.dnaspaces.eu/api/config/v1/nmspconfig and Data URL https://data.dnaspaces.eu/networkdata

2020/02/24 18:53:20.635 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (note): Set connection status from HTTP_CON_AUTH_IDLE to HTTP_CON_AUTH_PROGRESS_1STEP 2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (debug): tenant ID: vasilijeperovic 2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (debug): hostname is: data.dnaspaces.eu

2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (debug): Authenticator V1 get heartbeat host: https://data.dnaspaces.eu/api/config/v1/nmspconfig 2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (debug): Authenticator V1 get

2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (debug): Authenticator V1 access token: eyJ0eX[information omitted]rpmRq0g 2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmsp-db] [11100]: (debug): DNSs used for cloud **services**: 208.67.222.222,208.67.220.220 2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (debug): Using nameservers: 208.67.222.222,208.67.220.220 2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (debug): IP resolution preference is set to IPv4 2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmsp-https] [11100]: (debug): Not using proxy for cloud services 2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmsp-dump-https] [11100]: (debug): Found bundle for host data.dnaspaces.eu: 0xab764f98 [can multiplex] 2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmsp-dump-https] [11100]: (debug): Re-using existing connection! (#0) with host data.dnaspaces.eu 2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmsp-dump-https] [11100]: (debug): Connected to **data.dnaspaces.eu** (63.33.127.190) **port 443** (#0) 2020/02/24 18:53:21.635 {nmspd_R0-0}{1}: [nmsp-dump-https] [11100]: (debug): Using Stream ID: 3 (easy handle 0xab761440) 2020/02/24 18:53:21.636 {nmspd_R0-0}{1}: [nmsp-dump-https] [11100]: (debug): POST /api/config/v1/nmspconfig/192.168.1.10?recordType=nmsp_hrbt_init&jwttoken=eeyJ0eX[information omitted]70%3A69%3A5a%3A74%3A8e%3A58 HTTP/2 Host: data.dnaspaces.eu Accept: */* Accept-Encoding: gzip

2020/02/24 18:53:21.665 {nmspd_R0-0}{1}: [nmsp-dump-https] [11100]: (debug): We are completely uploaded and fine HTTP/2 200

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)。