# 使用Configuration Professional配置基本路由器

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```

# 簡介

本檔案介紹如何使用Cisco Configuration Professional(CCP)設定路由器的基本組態。

# 必要條件

# 需求

本文件沒有特定需求。

# 採用元件

本文中的資訊係根據以下軟體和硬體版本:

- 採用Cisco IOS<sup>®</sup>軟體版本12.4(9)的Cisco 2811路由器
- CCP版本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

本文說明如何使用Cisco Configuration Professional(CCP)來設定路由器的基本組態。路由器的基本 配置包括IP地址、預設路由、靜態和動態路由、靜態和動態NAT、主機名、標語、加密口令、使用 者帳戶和其他選項的配置。CCP允許您使用易於使用的基於Web的管理介面,在多種網路環境中配 置路由器,如小型辦公室家庭辦公室(SOHO)、分支辦公室(BO)、區域辦公室,以及中心站點或企 業總部。

**注意**:有關詳細資訊、文檔和支援可用性,請參閱<u>Cisco Configuration Professional</u>和<u>Cisco</u> <u>Configuration Professional for Catalyst。</u>

### 安裝Cisco Configuration Professional

執行以下步驟以安裝CCP:

- 1. 下載CCP V2.5並將其安裝在本地PC上。只有註冊的思科使用者才能訪問內部工具和資訊。
- 2. 從本地PC通過開始>程式>Cisco Configuration Professional 啟動CCP,然後選擇具有您要配置的路由器的社群。



Cisco Configural	tion Professional				
Application	Нер				
Honve	Configure Moni	w   %	é 0	Cisco Confi	gura
Select Commun	Manage Devices			Q	×
Community V	New Community Enter information for up t IP Address/Nestsame 1. Router 2.	o 5 devices for the Viewane cisco	selected community Password	Connect Securely	
	4,				
	s.				
	Discover all devices		A	OK Conce	
		Hanage Devices		Distance   . Discovery	Detail
					ù

3.為了發現要配置的裝置,請突出顯示路由器並按一下**Discover**按鈕。

Mome 🎄 Configure	Monitor 8	A A Cisco
the design of the second second	and the second s	
a devices discevered)	Home > Community Vie	***
	Cisco Configuration	Professional News
Community View	Date	Title
	24-May-2010	Cisco Configuration Professional v2
	24-May-2010	Simplify ISR & ISR &2 deployments
	24-May-2010	Provide CCP Feedback
	Community Informatio	m
	Selected Community: M	New Community .Select a device from
	Pittur	
	IP address / Hostnar	we Router Hostname
	Router	
	-	
		1

# 運行CCP的路由器配置

執行以下配置步驟,在Cisco路由器上運行CCP:

- 1. 使用Telnet、SSH或通過控制檯連線到路由器。使用以下命令進入全域性配置模式: Router(config)#enable
- 如果啟用了HTTP和HTTPS並將其配置為使用非標準埠號,則可以跳過此步驟,只使用已配置 的埠號。使用以下Cisco IOS軟體命令啟用路由器HTTP或HTTPS伺服器:

Router(config)# ip http server
Router(config)# ip http secure-server
Router(config)# ip http authentication local

3. 建立許可權級別為15的使用者:

Router(config)#username privilege 15 password 0

**注意**:將<username> 和<password>替換為您要配置的使用者名稱和密碼。請勿對您的使用 者和啟用密碼使用相同的密碼。

4. 為本地登入和許可權級別15配置SSH和Telnet。

Router(config)# line vty 0 4
Router(config-line)# privilege level 15
Router(config-line)# login local
Router(config-line)# transport input telnet
Router(config-line)# transport input telnet ssh
Router(config-line)# exit

5. (可選) 啟用本地日誌記錄以支援日誌監控功能:

Router(config)# logging buffered 51200 warning

# 需求

本檔案假設Cisco路由器已完全正常運作,且已設定為允許CCP進行組態變更。

### 慣例

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。

# 組態

本節提供為網路中的路由器配置基本設定的相關資訊。

**注意**:使用命令查詢工具可獲取本節中使用的命令的詳細資訊。只有註冊的思科使用者才能訪 問內部工具和資訊。

### 網路圖表

本檔案會使用以下網路設定:



**注意**:此配置中使用的IP地址方案不能在Internet上合法路由。它們是<u>RFC 1918</u> 位址,已在 實驗室環境中使用。

# 介面配置

要配置Cisco路由器的介面:

1. 按一下「Home」以轉到CCP首頁。CCP首頁提供路由器硬體和軟體、功能可用性和配置摘要 等資訊。

House 🎄 touringurs 💽 House	-   🛠 🖄 🤭			Cisco Cor	figuration P	rofessio
Salat. Le minority Manibar: Luz.Las.1.1   + (4	Monitor & Router & Uverview					Updale
iter Oliosioù	🔯 Rosover o Starius					
un carlo de Status Locologi	CPU Daage:	भा तर,	:mory Usage:	tila Martinezzi 4455 Avail	sh Usage; able(Tola (lasi , (112)	4/E'
White Stokes						
Dep 11 Frains Hows Application/Protocol Traffic	📑 Interface Status					
no fretu	Total Interface(s) Up:			Total Interface(s) Down:		f
edemonion Routing	Interface	IP	Status	Bandwidth Usage	Description	
10/	- nolEthernet bit TasiEthernet001	1957 68 1-1 nu iplaceress	Cur Ocon	1 %) C %)		2
						1
	🕵 Encwall Status			🛱 Qan S		
	No. of Attempts Denied:		)	No. of GoS Enabled Interfa	ces:	0
	Firewall Log:		Configured			

CCP首頁

 2. 選擇Configure> Interface Management> Interfaces and Connections>Create Connection以配 置介面的WAN連線。例如,對於FastEthernet 0/1,選擇Ethernet選項,然後按一下Create New Connection。注意:對於其他型別的介面(如以太網),請選擇相應的介面型別,然後單擊

🔻 🗁 Interface Management	
Interface and Connections	
V 🗁 Router	
Router Options	
Time Router Access	
Static and Dynamic Routing	
SNMP Logging	
🕨 📴 Advanced Router	
▶ 🧰 Security	
<ul> <li>Voice</li> <li>Utilities</li> </ul>	
	1

Create New Connection以繼續。

个面與連線

Treate Connection Edit Interface/Connection	
Create New Connection	Use Case Scenario
Select a connection and click Create New Connection	
C Ethernet LAN	PPPOF
Ethernet (EPPoE or Unencapsulated Routing)	over DSL / Ethernet Cable Modern
Information	
You can configure an Ethernet WAN interface for PPPoE or unencapsulated routing. Click Create New Connection to start.	

建立新連線

- 3. 按一下「Next」,以在顯示此介面後繼續
  - :

Ethernet Wizard		×
WAN Wizard	Welcome to the Ethernet WAN Configuration Wizard This wizard will allow you to configure an Ethernet interface for Internet connectivity.	
	Two types of Ethernet WAN connections are supported.   PPPnF   Uncheappulated Routing  To continue, click Next.	
	< Back Next > Finish Cantel H	:lp

WAN嚮導開啟

4. 從Available Interfaces選項中選擇**FastEthernet 0/1**(必需),然後按一下**Next**。

Ethernet Wizard - FastEth	ernet0/1	×
WAN Wizard	Encapeulation Interface: FastEthernetIVI If the muter is connected in a CSI imodem, you may need to configure the muter as PPOE client. Your service provider can tell you frou need to do this  Finable PPPoE encapsulation	a
	< Back Next> Finish Cancel H	alp
	< Rack Next > Finish Cancel H	

從可用介面選項中選擇FastEthernet 0/1

5. 指定介面的靜態IP地址和相應的子網掩碼,然後點選下一步。

Ethernet Wizard - FastEth	ernet0/1 🔀
WAN Wizard	IP address Enter the IP address for this connection
	<ul> <li>State IP address</li> <li>IP address: 172.16 1.1</li> <li>Subnet mask: 255.255.0 or 24 </li> </ul>
	C Dynamic (DHCP Cillen) Hostname:
	You can configure this interface to perform dvr amic DNE updates by checking the checktux below.
	< Back Next > Finish Cancel Help

指定IP地址和子掩碼

6. 使用ISP提供的可選引數(如下一跳IP地址(根據網路圖172.16.1.2))配置預設路由,然後點選 Next。

Ethernet Wizard - FastEth	ernet0/1	×
Ethernet Wizard - FastEth	Advanced Options         There is no static route configured on the router. A default static route ensures that outgoing traffic will always be sent to another router on the network         Image: Im	
	LAN Interface to be translated	
	< Rack Next > Finish Cancel He	ip 

*設定預設路由*出現此視窗並顯示使用者配置的配置摘要。按一下「Finish」(結束)。註:選中旁 邊的框 Test the connectivity after configuring 以確保配置的連線正常工作。

Ethernet Wizard - FastEt	hernet0/1	X
WAN Wizard	Summary	
	Please click Finish to celiver to the muter  Selected Interface (FastEthernet0/* PPF-oblemospoulation : Disabled Pladdress (372,* 6.1.* Butnet mask (255,255,255,0)  Default Route: Destination Prefix (0.0.0.0) Destination Prefix Mask: (1.0.0.0) Furwarding Pladdress (Exil Interface), 172, 13, 1, 2  Test the connect vity after configuring	
	< Back Next > Finish Cancel He	=lp

*配置摘要*出現此視窗,並顯示命令到路由器的傳送狀態。否則,如果命令交付由於不相容命令或 功能不受支援而失敗,將顯示錯誤。

7. 選擇Configure > Interface Management > Interfaces and Connections >Edit Interfaces/Connections以新增/編輯/刪除各種介面。

		_			
🔻 🗁 Interface Manager	ment				
Interface and (	Connections				
V 🗁 Router					
Router Options					
🕨 🚞 Time					
🕨 🚞 Router Access					
E DHCP					
DNS					
Static and Dyna	amic Routing				
NAT					
SNMP					
Logging					
Advanced Rout	er				
▶ 🚞 Security					
▶ 🚞 Voice		編輯介面和連線			
S. Interfaces and (	Connections				
30					
Create Connection Edit	t Interface/Connec	tion			
C E	dit 🕂 Add 🕶 🏢	Delete 🔲 Summary 📓	🕻 Details 🕺	្ធ្វី Test Conne	ection
Interface	IP	Туре	Slot	Status	Desc
FastEthernet0/0	192.168.1.1	10/100Ethernet	0	🕒 Up	
FastEthernet0/1	172.16.1.1 not applicable	10/100Ethernet	0	OUp OUp	
FastEthernet0/3/1	not applicable	Ethernet Switch Port	0	🛆 Un	
FastEthernet0/3/2	not applicable	Ethernet Switch Port	õ	aU 🧿	
FastEthernet0/3/3	not applicable	Ethernet Switch Port	0	Op Op	
Vlan1	no IP address	Vlan		🗿 Up	

Interfaces and Connections視窗突出顯示要更改的介面,如果要編輯或更改介面配置,請按一下 Edit。您可以在此處更改當前的靜態IP地址。

# NAT配置

動態NAT配置

在Cisco路由器中配置動態NAT:

1. 選擇Configure > **Router > NAT > Basic NAT** ,然後按一下**Launch the selected task**以配置基本NAT。



啟動所選任務

2

按「Next」(下一步)。	0	
Basic NAT Wizard		×
NAT Wizard Network Address Translation	Welcome to the Basic NAT Wizard This wizard lets you connect the PCs and hosts on your LAN to the Internet.	
	To connect the PCs and hosts to the Internet, you must perform these tasks: • Choose the interface that is connected to the Internet or to your Internet service provider. • Choose the networks on the LAN that are to share the Internet connection.	
	< Back Next> Finish Cancel Help	

選擇下一步

3. 選擇連線到Internet或ISP的介面,並選擇共用Internet訪問的IP地址範圍。選擇此資訊後,按 一下**下一步**。

Basic NAT Wizard			E
NAT Wizard Network Address Translation	Sharing the Internet Connection If this rouler has a connection to the Intern on the LAN to share this connection. Choose the interface that connects to the FastEthernet0/1 Details The following ranges of IP addresses are to the router. Check the box next to each the box next to each the	net specify how you w Internet or your Intern Internet or your Intern Internet or your Intern Internet or your Internet work	vant PCs and hosts net service provider: s directly cor nectec re the connection
204221.08 204322180 168.077220.15 168.022211 241.134-8 241.134-8 241.134-8	IP adcress range	Connected Through	Comment
	T 172.16.1.0 to 172.16.1.255	FastEthernet0/1	
	l Note: To con1gure NAT on an interface m Edit NAT Configuration, and uncheck that window. For details see help.	arked as Designated : interface in the Desig	, exit this wizard, click gnate NAT Interfaces
	<	Back Next > Finis	h Cancel Help
選擇Interface Connect to the Int 出現此視窗並顯示使用有 編輯NAT配置視窗顯示E NAT,請按一下Address	ternet or Your ISP 皆配置的配置摘要。按一下「Finis 已轉換IP地址過載的動態NAT配置 s <b>Pool</b> 。	sh」(結束)。 。如果要使用地 <sup>;</sup>	址池配置動態
Create NAT Configuration	dit NAT Configuration		

Create NAT Configuration Eart NAT Configu	Iration		
Designate NAT interfaces		Addrass Pocl	Translation Timeputs
Network Address Translation Rules -			
Inside Interface(s): FastEthernet0r0	)		
Outside Intelface(s): FastEthernet0/1			
Original address	Trans ated address	Rule Type	Add
192.168.1.0-192.158.1.255	172.16.1.1	Dynamic	<u></u>
			Ecit
			Celcte
			View Route MAP

編輯NAT配置視窗並選擇地址池

6. 按一下「Add」。此處提供了池名稱和帶網路掩碼的IP地址範圍等資訊。有時池中的大多數地址都已分配,並且IP地址池已接近耗盡。發生這種情況時,PAT可與單個IP地址配合使用,以滿足對IP地址的其他請求。如果希望路由器在地址池接近耗盡時使用PAT,請檢查Port Address Translation(PAT)。按一下「OK」(確定)。

Add Address Pool
Pool Name: pool
Port Address Translation(PAT)
IP address: 10.10.10.1 10.10.10.10 Network Mask: 255.255.255.0 or 24
OK Cancel Help
, 按一下「Add」。

·下「Add」。		
dress Pools		
ddress Pools are use ddresses.	d to configure Dynamic Network Addres	s Translation
Pool Name	Address	]
pool	10.10.10.1 - 10.10.10.10	Add
		Edit
		Euit
		Delete
Clone selected Ent	ry on Add	
0	K Cancel Help	

8. 按一下「Edit」。

Create NA	T Configuration	Edit NAT Configu	ration		
Desig	nate NAT Interface	s		Address Pool	Translation Timeouts
Ne	work Address Tra	ristation Rules —			
Insi	de Interface(s)	FastEthernet0/1			
Outs	side interface(s):	FastEthernet0/I			
	Original address	;	Translated address	Rule Type	bez
	1921631 0-1921	168 1 255	172 16 1 1	Dynam c	Edit
					Delete
					View Route MAP

編輯NAT配置

9. 在Type欄位中選擇Address Pool,將Address Pool的名稱作為pool提供,然後按一下OK。

	110
Direction: From inside	to outside 🛛 😼
Translate from interfa	ice
Inside Interface(s):	FastEthernet0/0
ACL Rule:	1
Translate to interface	FastEthernet0/1
Type:	Address Pool
Interface:	Interface Address Pool

址池名稱

10. 此視窗顯示帶有地址池的動態NAT配置。按一下**指定NAT介面**。

Create NAT Configuration Edit NAT (	Configuration		
Designate NAT Interfaces.		Address Poul	Translation Timeouls
Network Address Trans ation Re	ules		
Inside Interface(s). FasiEthe	rnel0/D		
Outside Interface(s). FasiEthe	mel0/1		
Or ginal address	Trans ated address	Rula Type	Add
191106: .191192.198.1.20	10.10. 013.13.13.10	L y Tam C	Ecit
			Delete
			View Route MAP

<sub>指定NAT介面</sub>使用此視窗可以指定要在NAT轉換中使用的內部和外部介面。NAT在解釋轉換規則 時使用內部和外部標識,因為轉換是從內部執行到外部,或從外部執行到內部。 指定後,這 些介面將用於所有NAT轉換規則。指定的介面出現在主NAT視窗的Translation Rules清單中

nside ) outside.		
interface	inside(trusted)	outside(untruste
FastEthernet0/0	•	
FastEthernet0/1		

# 靜態NAT配置

要在Cisco路由器中配置靜態NAT,請執行以下步驟:

1. 選擇Configure > Router > NAT > Edit NAT Configuration 並按一下Add以配置靜態NAT。

Crcate NAT Configuration Edit NAT Configu	ration		
Designate NAT Interfaces		Address Pocl	Translation Timeouts
Inside Interface(3): FastEthernetU/U			
Outsice Interface(∋): Fa∋t⊑:hemet0/1			
Original address	Translated address	Rule Type	Add
			tir A
			Delete

配置靜態NAT

2. 選擇Direction(從內部到外部或從外部到內部),並在Translate from Interface(從介面轉換)下指定要轉換的內部IP地址。在Translate to Interface區域中,選擇Type:如果要將Translate from Address 轉換為IP Address欄位中定義的IP地址,請選擇IP Address 。如果希望Translate from Address <使用路由器上介面的地址,請選擇Interface。Translate from Address 轉換為分配給您在Interface欄位中指定的介面的IP地址。如果您要在轉換中包括內部裝置的埠資訊,請選中Redirect Port。這樣,只要為每台裝置指定的埠不同,就可以對多個裝置使用相同的公共IP地址。您必須為每個埠建立一個條目 mapping 轉換到地址。如果這是TCP埠號,請按一下TCP,如果是UDP埠號,請按一下UDP。在Original Port欄位中,輸入內部裝置上的埠號。在Translated Port欄位中,輸入路由器用於此轉換的埠號。請參閱設定網路位址轉譯。此視窗顯示了已啟用埠重定向的靜態NAT配置</p>

Direction: From inside to	n outside 🗸
Translate from interfac	
Inside Interface(s): IP address: Network Mask(optional):	FastEthernet0/0 10.10.10.1 or
Translate to interface	]
Outside Interface(s):	FastEthernet0/1
Туре:	IP address 🗸
Interface:	FastEthernet0/0
IP address:	172.16.1.1
Redirect Port     TCP     OUDP	8080 Translated Port: 80
Original Port:	8080 Translated Port: 80

此視窗顯示了已啟用埠重定向的靜態NAT配置:

Oreat	o NAT Configuration	Edit NAT Configuratio	n		
D	esignate NAT Intelface	s	4	cdress Pool	Translation Timeouts
	- Network Address Trai	nslation Rules			
	Inside Interface(5):	FastEtherne10/0			
	Cuitside Intertace(s):	Fast-thernet101			
	Original accress	Tra	nslated address	Rule Type	Add
	Original accress	<b>Tra</b> 172	nslated address .16.1.1 (80)	Rule Type Static	Add
[	Ori <u>c</u> inal accress 10.1010.1 (8080)	Tra 172	nslated address 16.1.1 (80)	Rula Type Static	Add
[	Ori <u>c</u> inal accress 10.1010.1 (8080)	<b>Tra</b> 172	nslated address .16.1.1 (90)	Rule Type Static	Add
[	Ori <u>c</u> inal accress 10.1010.1 (808C)	<u>Tra</u> 172	nslated address .16.1.1 (80)	Rula Type Static	Add

路由配置

### 靜態路由配置

在Cisco路由器中配置靜態路由:

1. 選擇Configure > Router > Static and Dynamic Routing 並按一下Add以配置靜態路由。

📄 Interface and Connections	Ctatic Routing		<u>L</u>	Add
V Anter	Liestination Netwo	rk	Forwarding	
Nouter Options	Pretix	Pretix Mask	Interace or IP address	
Router Access				
⊨ 📴 DHC>				
DNS				
Static and Dynamic Routing				
внир				

配置靜態路由

2. 輸入帶有掩碼的目標網路地址,然後選擇傳出介面或下一跳IP地址。

dd IP Static Route		×
Destination Network		
Prefix:	10.1.1.0	
Prefix Mask:	255.255.255.0	
🗖 Make this as the default route	9	
Forwarding( Next Hop )		
O Interface:	FastEthernet0/0	
• IP Address:	172.16.1.2	
Optional Distance metric for this route: Permanent route	1	
OK Cance	Help	

# 顯示為10.1.1.0網路配置的靜態路由,其中172.16.1.2作為下一跳IP地址

:						
Static Routing			Add	Edit	Delete	te All
Destination Network	r	Forwarding		Optional		
Pretty	Pretix Mask	Interface or IP address		Distance	Permanent Route	Irac
10.1.1.0	255.255.255.0	172.16.1.2		1	Nu	None
<		111				>

已配置的網路

### 動態路由配置

在Cisco路由器中配置動態路由:

- 1. 選擇Configure > Router > Static and Dynamic Routing。
- 2. 選擇RIP,然後按一下Edit。

• Routing						
Static Routing			Acc	Edit	Delete Dele	ete All
Destination Network		Forwarding		Optoral		
Prefix	Prefix Mask	Interface or IP address		Distance	Permaner LRoute	Trac
<		III				>
Dynamic Routing					Ed	il
tem slame	tem Valle					
RIP	Disabled					
00PT	Disabled					
EIGRP	Disabled					

配置動態路由

3. 選中Enable RIP,選擇RIP版本,然後按一下Add。

RIP OSPF	EIGRP		
Enable	RIP		
RIP Versio	n C Version 1	Version2	C Default
IP Net	work List ———		
192.168	.1.0		Add
Availa	ole Interface List	Make the Interf	face Passive
FastEtherr	iet0/0		
Vlan1			
OK	Canc	el	Help
OK	Canc	el	Help
<u>0K</u>	Canc Add a Netwo	el	Help
OK	Cance Add a Network:	el ork 92.168.1.0	Help

dit IP Dynamic Routing	
RIP Version C Version 1 © Version2	C Default
IP Network List	
192.168.1.0	Add
	Delete
Available Interface List Make the Interf	ace Passive
FastEthernet0/0	
FastEthernet0/1	
Vlan1	
OK Cancel	Help

6. 按一下「**Deliver**」將命令傳送到路由器。

Deliver Configuration to Router	
Deliver delta commands to the router's running config.	
Preview commands that will be delivered to the router's ru	Inning configuration.
router rip version 2 no auto-summary network 192.168.1.0 exit	
The differences between the running configuratio the router is turned off.	n and the startup configuration are lost whenever
Save running config. to router's startup config. This operation can take several minutes. Deliver Cancel	Save to file Help
將命令傳送到路由器 此視窗顯示動態RIP路由配置	
DNS	
🗋 Static and Dynamic Routing	
🗋 NAT	
SNMP	
🔄 Logging	
🕨 🚞 Advanced Router	
🔻 🚞 Security	
Security Audit	
Firewall and ACL	
🕨 🧰 ACL Editor	
N 📄 VPN	
▶ 🚞 VPN Components	
	RIP路由配置

### Dynamic Routing

d	iŧ			
u	11	•	•	•

Item Name	Item Value
RIP	Enabled
RIP Version	Version2
Network	192.168.1.0
Passive Interface	None
OSPF	Disabled
	Dischlad
EIGRP	Disabled

配置RIP路由

# 其他配置

在Cisco路由器中配置其他基本設定:

1. 如果要更改路由器的主機名、域名、標語和啟用加密口令屬性,請選擇Configure> Router> Router Options,然後按一下Edit。

T Conterface Management	🥳 Additional Tasks	5
Interface and Connections	Device Properties	
🔻 🚞 Router	Item Name	Item Value
Router Options	Hostname	Router
<ul> <li>Time</li> <li>Router Access</li> <li>DHCP</li> <li>DNS</li> </ul>	Domain Name Banner Enable Secret Password	None None

編輯基本設定

2. 選擇Configure > Router Access > User Accounts/View 以向路由器中新增/編輯/刪除使用者帳

			_															
	🔻 🗁 Interface Management	-																
	Interface and Connections																	
	🔻 🚞 Router	L																
	Router Options																	
	🕨 🔁 Time																	
	🔻 🚞 Router Access		Ŀ															
	User Accounts/View																	
	📄 Management Access																	
	🗋 ssн																	
	▶ 🚞 DHCP																	
	DNS																	
	📄 Static and Dynamic Routing																	
	NAT .																	
	SNMP																	
	Logging		-															
	🕨 🧰 Advanced Router																	
	🔻 🚞 Security																	
	Security Audit																	
	Firewall and ACL																	
	🕨 🚞 ACL Editor																	
	N 🚞 VPN																	
	🕨 🚞 VPN Components																	
_	🕨 🚞 AAA																	
户。		Ŧ		新	ŕ	「增/編集	「增/編輯/刪	「增/編輯/刪除你	「增/編輯/刪除使月	「增/編輯/刪除使用者	「增/編輯/刪除使用者	「增/編輯/刪除使用者帕	「增/編輯/刪除使用者帕	「增/編輯/刪除使用者帖	「增/編輯/刪除使用者帳	「增/編輯/刪除使用者帳	「增/編輯/刪除使用者帳	「增/編輯/刪除使用者帳

🧃 Additional Tasks			
User Accounts/Mew	Add an Account		atalactic the https://www.atalactic.com
User Accounts Mew	Add an Account Enter the usemame and password Username: Password Facewore New Password. Contiminie w Fasswore: Finiting Love : Associate a Vew with the user View Name : CCP_Administrator	<pre> </pre> </th <th>Add Filt Delate</th>	Add Filt Delate
	OK Cancel	Her	

新增帳戶

3. 選擇 配置>實用程式> Save Running Config to PC以 save 配置到路由器的NVRAM和PC,並將當前 配置重置為預設(工廠)設定。註:要使用CCP將電腦上儲存的配置檔案還原到路由器或將 配置檔案從路由器備份到電腦,請訪問配置編輯器,然後按一下「I agree」。在 Configure(配置)視窗中,選擇Import configuration from PC,然後按一下 Replace running configuration 按鈕。



CLI組態 路由器配置

```
Router# show run
Building configuration...
Current configuration : 2525 bytes
1
version 12.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
1
hostname Router
1
boot-start-marker
boot-end-marker
no logging buffered
enable password cisco
1
no aaa new-model
1
resource policy
1
ip cef
1
!--- RSA certificate generated after you enable the
!--- ip http secure-server command. crypto pki trustpoint TP-self-signed-2401602417 enrollment selfsign
subject-name cn=IOS-Self-Signed-Certificate-2401602417 revocation-check none rsakeypair TP-self-signed-
2401602417 crypto pki certificate chain TP-self-signed-2401602417 certificate self-signed 01 30820248
308201B1 A0030201 02020101 300D0609 2A864886 F70D0101 04050030 31312F30 2D060355 04031326 494F532D 5365
2D536967 6E65642D 43657274 69666963 6174652D 32343031 36303234 3137301E 170D3130 30353139 30393031 3131
0D323030 31303130 30303030 305A3031 312F302D 06035504 03132649 4F532D53 656C662D 5369676E 65642D43 6572
66696361 74652D32 34303136 30323431 3730819F 300D0609 2A864886 F70D0101 01050003 818D0030 81890281 8100
A3A6E322 9B6005DA A0FF26C2 8A0DC5AF 27B38F3B DBF2BF58 D8F2655D 31115681 EC8BC750 03FE3A25 0F79DC74 3A83
CB9486F1 A1F5BF43 D92BA7AF 3C72A57B D8D37799 50493588 A5A18F7F 27955AB0 AC36B560 3BE9F648 A4F6F41F B9E9
F9570DEB 5555FDED 9593BD00 5ABB30CD D3B9BDFA F570F987 651652CE 3D310203 010001A3 70306E30 0F060355 1D13
FF040530 030101FF 301B0603 551D1104 14301282 10526F75 7465722E 70616D6D 692E636F 6D301F06 03551D23 0418
80146A0A C2100122 EFDA58AB C319820D 98256622 52C5301D 0603551D 0E041604 146A0AC2 100122EF DA58ABC3 1982
25662252 C5300D06 092A8648 86F70D01 01040500 03818100 83B0EC8C 6916178F 587E15D6 5485A043 E7BB258D 0C9A
DA18793D CACC026E BC0B9B33 F8A27B34 5BD7DD7F FCECA34F 04662AEC 07FD7677 A90A8D1C 49042963 C2562FEC 4EFF
360BF88A FEDC7CAA AE308F6C A5756C4A F574F5F3 39CE14AE BAAEC655 D5920DD0 DA76E296 B246E36E 16CFBC5A 0097
170BBDAD C1594013 quit !--- Create a user account named ccpccp with all privileges. username ccpccp pri
15 password 0 cisco123 archive log config hidekeys !--- The LAN interface configured with a private IP
address. interface FastEthernet0/0 description $ETH-LAN$ ip address 192.168.1.1 255.255.255.0 !--- Desi
that traffic that originates from behind
!--- the interface is subject to Network Address Translation (NAT). ip nat inside ip virtual-reassembly
duplex auto speed auto !--- This is the LAN interface configured with a routable (public) IP address.
interface FastEthernet0/1 description $ETH-WAN$ ip address 172.16.1.1 255.255.255.0 !--- Designate that
interface is the
!--- destination for traffic that has undergone NAT. ip nat outside
 ip virtual-reassembly
duplex auto
speed auto
```

!--- RIP version 2 routing is enabled. router rip version 2 network 192.168.1.0 no auto-summary !--- Th
where the commands to enable HTTP and HTTPS are configured. ip http server ip http authentication local
http secure-server !--- This configuration is for dynamic NAT. !--- Define a pool of outside IP address
NAT. ip nat pool pool 10.10.10.1 10.10.10.10 netmask 255.255.255.0 !--- In order to enable NAT of the
source address,

!--- specify that traffic from hosts that match access list 1

!--- are NATed to the address pool named pool1. ip nat inside source list 1 pool pool1 !--- Access list

permits only 192.168.1.0 network to be NATed. access-list 1 remark CCP\_ACL Category=2 access-list 1 per 192.168.1.0 0.0.0.255 !--- This configuration is for static NAT !--- In order to translate the packets between the real IP address 10.10.10.1 with TCP !--- port 80 and the mapped IP address 172.16.1.1 with TCP port 500. ip nat outside source static tcp 10.10.10.1 8080 172.16.1.1 80 extendable ! ! --- The default route is configured and points to 172.16.1 route 0.0.0.0 0.0.0.0 172.16.1.2 ! control-plane ! line con 0 line aux 0 !--- Telnet enabled with passw cisco. line vty 0 4 password cisco transport input all line vty 5 15 password cisco transport input all

# 驗證

選擇Configure > Interface & Connections > Edit Interface Connections > Test Connection以測試端 到端連線。如果按一下User-specified單選按鈕,則可以指定遠端終端IP地址。

Connectivity testing and troul	oleshooting : FastEthernet0/1	×
IP address / hostname Select a ping option, enter th C Automatically determine	ne required value and click Start ned by Cisco ISer-specified 172.16.1.2	
		1
	🔲 Summary 🛛 📓 Details	
Activity Information Checking inter Checking exit i Pinging to dest	Us P uccessful uccessful uccessful uccessful uccessful uccessful	
Failure Reason(s)	Recommended Action(s)	
Start	Save Report Close Help	

指定遠端地址和IP地址



(OIT)支援某些**show命**令。使用OIT檢視show命令輸出的分析。

**注意**:發出debug<u>指令之前,請先參閱</u>有關Debug指令的重要資訊。

您可以使用以下選項對組態進行疑難排解:

• 選擇Help>About this Router以檢視路由器的硬體和軟體詳細資訊。

Device Information	
Cisco 2811	
Hardware Details	
Model Type:	Cisco 2811
Available / Total Memory(MB):	66/256 MB
Total Flash Capacity:	61 MB
- Software Details	
IOS Version:	12.4(24)T3
IOS Image:	c2800nm-adventerprisek9-mz.124-24.T3.bin
Hostname:	Router2811
Feature Availability: 🥝 IP 🛛 🔵 Firewall 🔵 VPN 🌑 IPS 🔍 NAC	
	Close

硬體和軟體詳細資訊

• Help選項提供有關CCP中用於配置路由器的各種可用選項的資訊。



### 如何更改路由器的使用者名稱和密碼?

您可通過CCP更改路由器使用者名稱和密碼。完成以下步驟即可變更使用者名稱和密碼:

- 1. 建立新的臨時使用者帳戶,然後登入到臨時使用者帳戶。
- 在CCP中更改主使用者帳戶(即要更改使用者名稱和密碼的路由器的使用者帳戶)的使用者名 稱和密碼。
- 3. 從臨時帳戶註銷並登入到主使用者帳戶。
- 4. 更改主帳戶的密碼後,請刪除臨時使用者帳戶。

### 使用Internet Explorer 8訪問CCP時收到內部錯誤。如何解決此問題?

#### 問題

使用Internet Explorer 8使用CCP配置2800系列路由器時,可能會收到此內部錯誤:

Internal error: [FaultEvent fault=[RPC Fault faultString="Send failed"
faultCode="Client.Error.MessageSend"
faultDetail="Channel.Connect.Failed error NetConnection.Call.Failed: HTTP: Status 200: url:
'http://localhost:8600/messagebroker/amf '"] messageId="A08846FF-E7C6-F578-7C38-61C6E94899C7"
type="fault" bubbles=false cancelable=true eventPhase=2]

#### 不要降低Java級別,因為這樣做不能解決問題。

### 解決方案

此錯誤可能是瀏覽器相容性問題的結果。Internet Explorer 8改變了為IE開發的應用程式的許多基本 方面。Cisco建議您將Internet Explorer降級到版本7。您還必須刪除安裝,然後重新安裝CCP。

當我嘗試安裝CCP時,收到此錯誤消息:「無法讀取原始檔。檔案可能已損壞。請重

新安裝Cisco Configuration Professional以解決問題。」如何解決此問題?

#### 問題

下載應用程式安裝程式檔案並嘗試安裝CCP時,可能會收到以下錯誤:

Unable to read the source file. File could be Corrupted. Please re-install Cisco Configuration Professional to resolve the issue 解決方案

#### 要解決此問題:

- 1. 刪除PC上所有CCP例項, 並執行全新下載和安裝。
- 2. 如果上一步不起作用,請嘗試下載其他版本的CCP。
- 3. 如果上一步不起作用,請聯絡Cisco全球支援聯絡人。

註:您必須具有有效的思科使用者憑證才能與思科TAC聯絡。

#### 如何訪問CCP技術日誌?

按一下**開始>程式>思科系統>思科配置專家>收集資料以獲得技術支援**。CCP自動將日誌歸檔到名為 \_*ccptech.zip的zip檔案中*。如果該檔案不是,請對此檔案執行本地檔案系統搜尋 saved 到您的案頭。 您可以將這些技術日誌傳送至<u>思科全球支援聯絡人。</u>

注意:關閉CCP的所有例項,以避免由於歸檔日誌而導致的其他問題。

#### 路由器發現比平常花費更多的時間;如何解決此問題?

#### 問題

啟動CCP並配置社群後,發現路由器所需的時間比平常要長。以下是說明所用時間的CCP日誌:

July 10, 2009 8:29:19 AM EDT Discovering device test-router July 10, 2009 8:29:20 AM EDT Last discovery clean-up elapsed time was 47 milliseconds. July 10, 2009 8:31:13 AM EDT Discovery job allocation elapsed time was 113859 milliseconds. July 10, 2009 8:31:13 AM EDT Authentication completed. July 10, 2009 8:40:28 AM EDT Video feature disabled. Video feature discovery elapsed time=214375 ms July 10, 2009 8:51:15 AM EDT Security feature ready - elapsed time was 860734 milliseconds. July 10, 2009 8:51:16 AM EDT Total device test-router discovery elapsed time was 1316047 milliseconds.

所有路由器(無論其型號和平台如何)都存在此問題。此外,路由器上沒有記憶體或CPU相關問題

o

#### 解決方案

驗證驗證驗證模式。如果身份驗證不在本地進行,請檢查驗證此身份驗證的伺服器是否有問題。修 復此伺服器的任何問題以解決此問題。

# 我無法檢視CCP上的IPS配置頁面;如何解決此問題?

### 問題

如果「配置」視窗中的特定功能只顯示空白頁,則可能會出現不相容問題。

### 解決方案

驗證以下專案以解決此問題:

- •驗證您的路由器型號上是否支援並啟用了該特定功能。
- 驗證您的路由器版本是否支援該功能。可通過版本升級解決路由器版本不相容問題。
- •驗證問題是否出在當前的許可上。

# 相關資訊

### • <u>NAT支援頁面</u>

• <u>技術支援與下載 — Cisco Systems</u>

### 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)。