

透過FDM為FTD上的安全使用者端驗證設定憑證比對

目錄

[簡介](#)

[必要條件](#)

[需求](#)

[採用元件](#)

[背景資訊](#)

[網路圖表](#)

[組態](#)

[FDM中的組態](#)

[步驟 1. 設定FTD介面](#)

[步驟 2. 確認思科安全客戶端許可證](#)

[步驟 3. 增加地址池](#)

[步驟 4. 建立安全客戶端配置檔案](#)

[步驟 5. 上傳安全使用者端設定檔至FDM](#)

[步驟 6. 增加組策略](#)

[步驟 7. 新增FTD憑證](#)

[步驟 8. 新增CA至FTD](#)

[步驟 9. 增加遠端訪問VPN連線配置檔案](#)

[步驟 10. 確認連線設定檔摘要](#)

[在FTD CLI中確認](#)

[在VPN客戶端中確認](#)

[步驟 1. 將安全客戶端配置檔案複製到VPN客戶端](#)

[步驟 2. 確認使用者端憑證](#)

[步驟 3. 確認CA](#)

[驗證](#)

[步驟 1. 啟動VPN連線](#)

[步驟 2. 在FTD CLI中確認VPN作業階段](#)

[疑難排解](#)

[相關資訊](#)

簡介

本檔案介紹如何使用憑證比對進行驗證，透過FDM在FTD上設定具有SSL的Cisco Secure Client。

必要條件

需求

思科建議您瞭解以下主題：

- Cisco Firepower裝置管理員(FDM)虛擬
- 防火牆威脅防禦(FTD)虛擬
- VPN身份驗證流程

採用元件

- 思科Firepower裝置管理器虛擬7.2.8
- 思科防火牆威脅防禦虛擬7.2.8
- 思科安全客戶端5.1.4.74
- 設定檔編輯器(Windows) 5.1.4.74

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

CertificateMatch功能允許管理員配置客戶端必須使用的條件，以選擇用於VPN伺服器身份驗證的客戶端證書。此配置在客戶端配置檔案中指定，這是一個XML檔案，可使用配置檔案編輯器進行管理或手動編輯。CertificateMatch功能可用於增強VPN連線的安全性，方法是確保只有具有特定屬性的證書用於VPN連線。

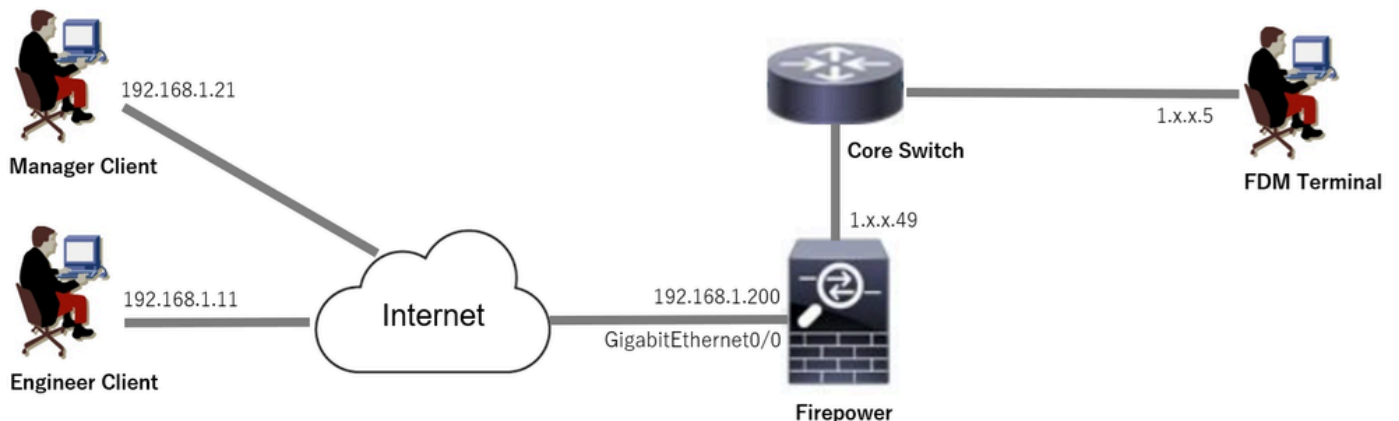
本文檔介紹如何使用SSL證書中的公用名稱對Cisco Secure Client進行身份驗證。

這些憑證中包含用於授權目的的通用名稱。

- CA：ftd-ra-ca-common-name
- 工程師VPN客戶端證書：vpnEngineerClientCN
- Manager VPN客戶端證書：vpnManagerClientCN
- 伺服器證書：192.168.1.200

網路圖表

下圖顯示本文檔示例中使用的拓撲。



組態

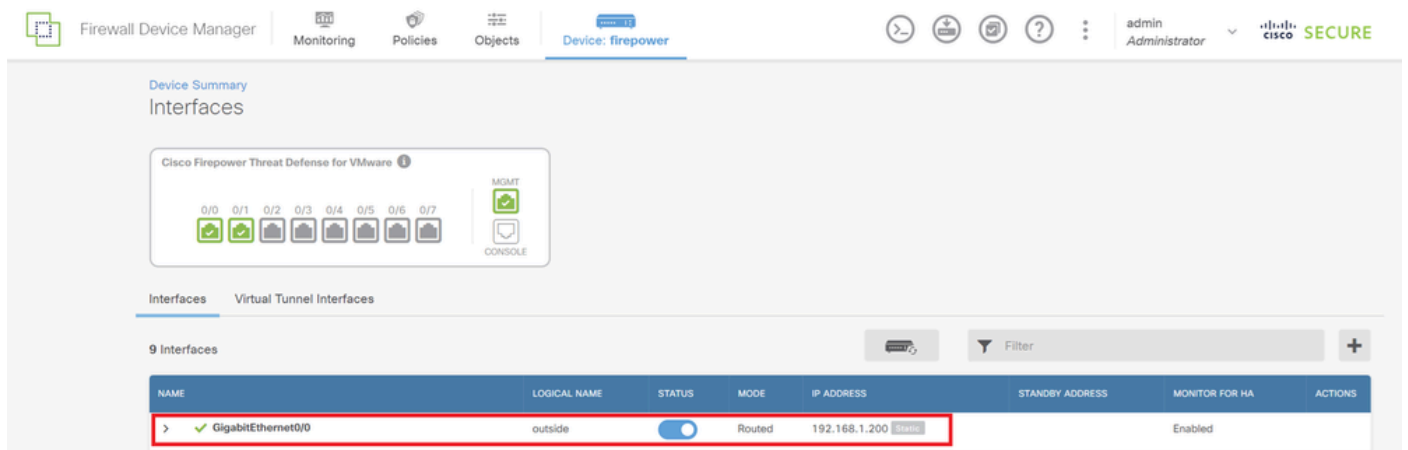
FDM中的組態

步驟 1. 設定FTD介面

導覽至Device > Interfaces > View All Interfaces，在Interfaces索引標籤中設定FTD的內部和外部介面。

對於GigabitEthernet0/0，

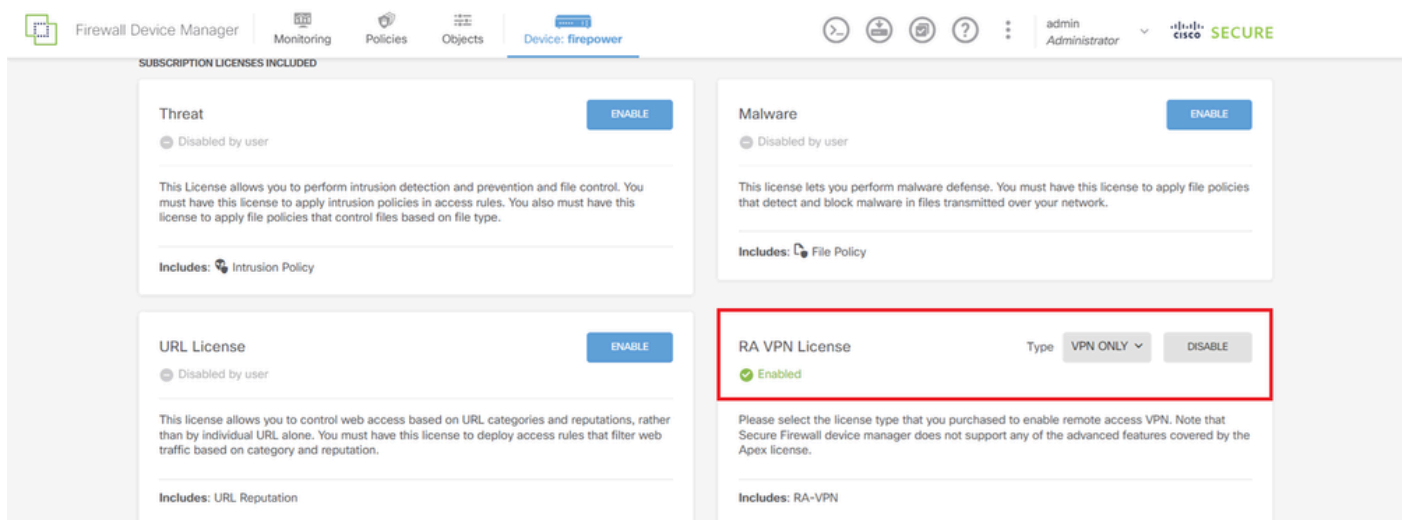
- 名稱：outside
- IP地址：192.168.1.200/24



FTD介面

步驟 2. 確認思科安全客戶端許可證

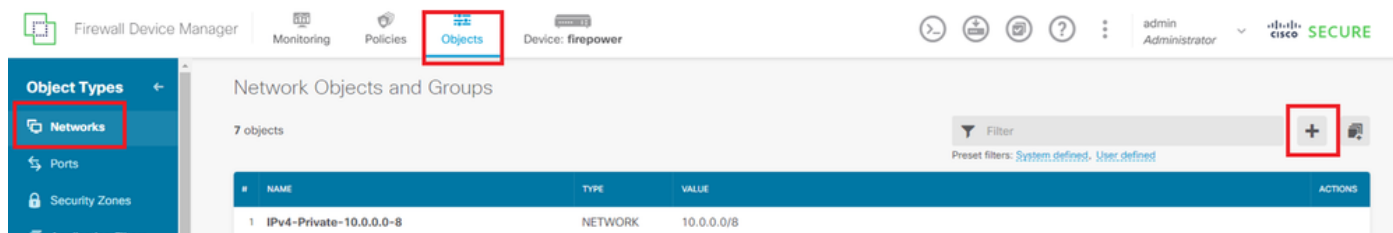
導航到裝置>智慧許可證>檢視配置，確認RA VPN許可證專案中的思科安全客戶端許可證。



安全使用者端授權

步驟 3. 增加地址池

導航到對象>網路，點選+按鈕。



增加地址池

輸入必要資訊以增加新的IPv4地址池。按一下OK 按鈕。

- 名稱：ftd-cert-match-pool
- 型別：範圍
- IP範圍：172.16.1.150-172.16.1.160

Add Network Object

Name

ftd-cert-match-pool

Description

Type

Network Host FQDN Range

IP Range

172.16.1.150-172.16.1.160

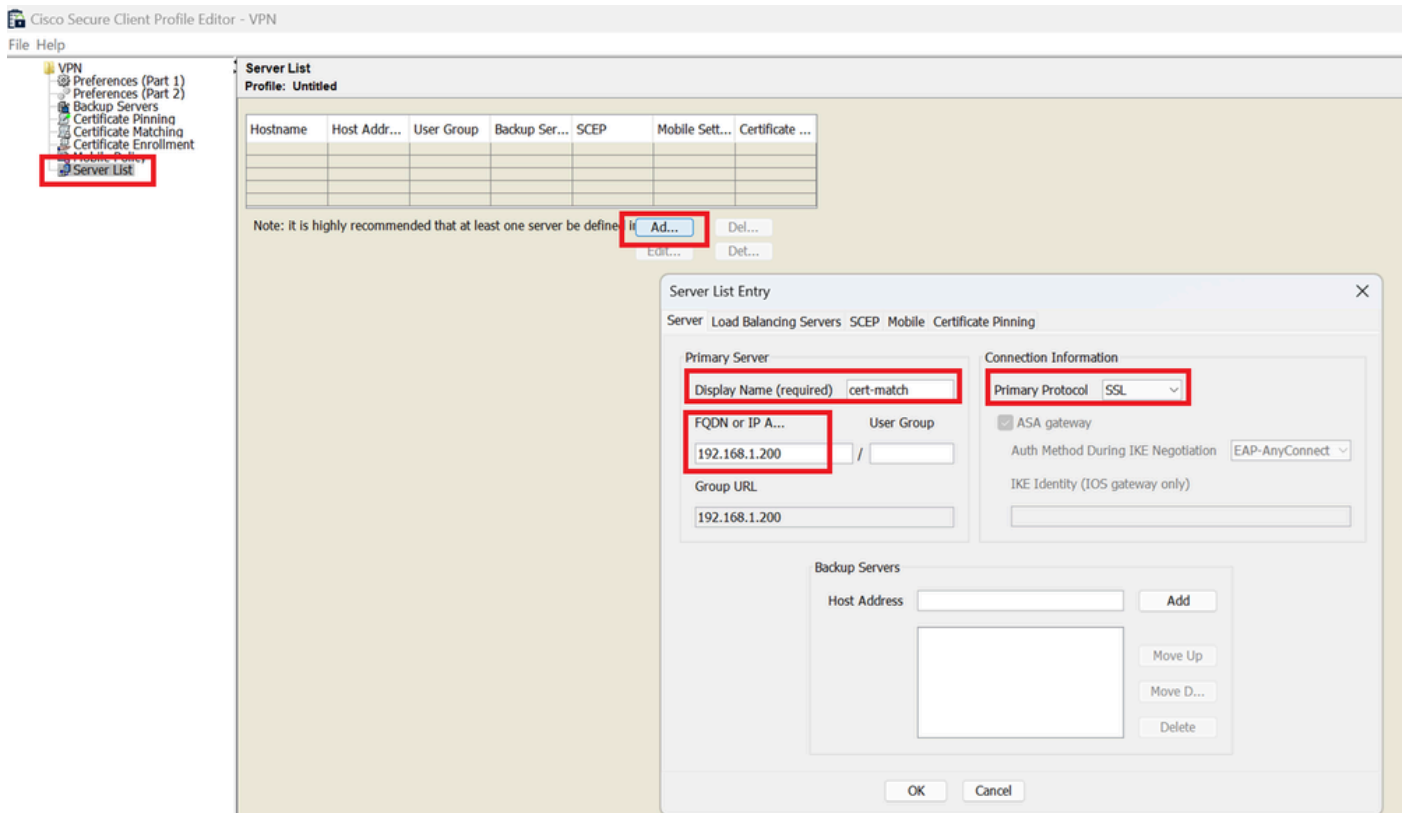
e.g. 192.168.2.1-192.168.2.24 or 2001:DB8:0:CD30::10-2001:DB8:0:CD30::100

CANCEL OK

步驟 4. 建立安全客戶端配置檔案

從[思科軟體](#)站點下載並安裝安全客戶端配置檔案編輯器。導航到伺服器清單，點選增加按鈕。輸入增加伺服器清單條目所需的資訊，然後按一下OK按鈕。

- 顯示名稱：cert-match
- FQDN或IP地址：192.168.1.200
- 主要通訊協定：SSL



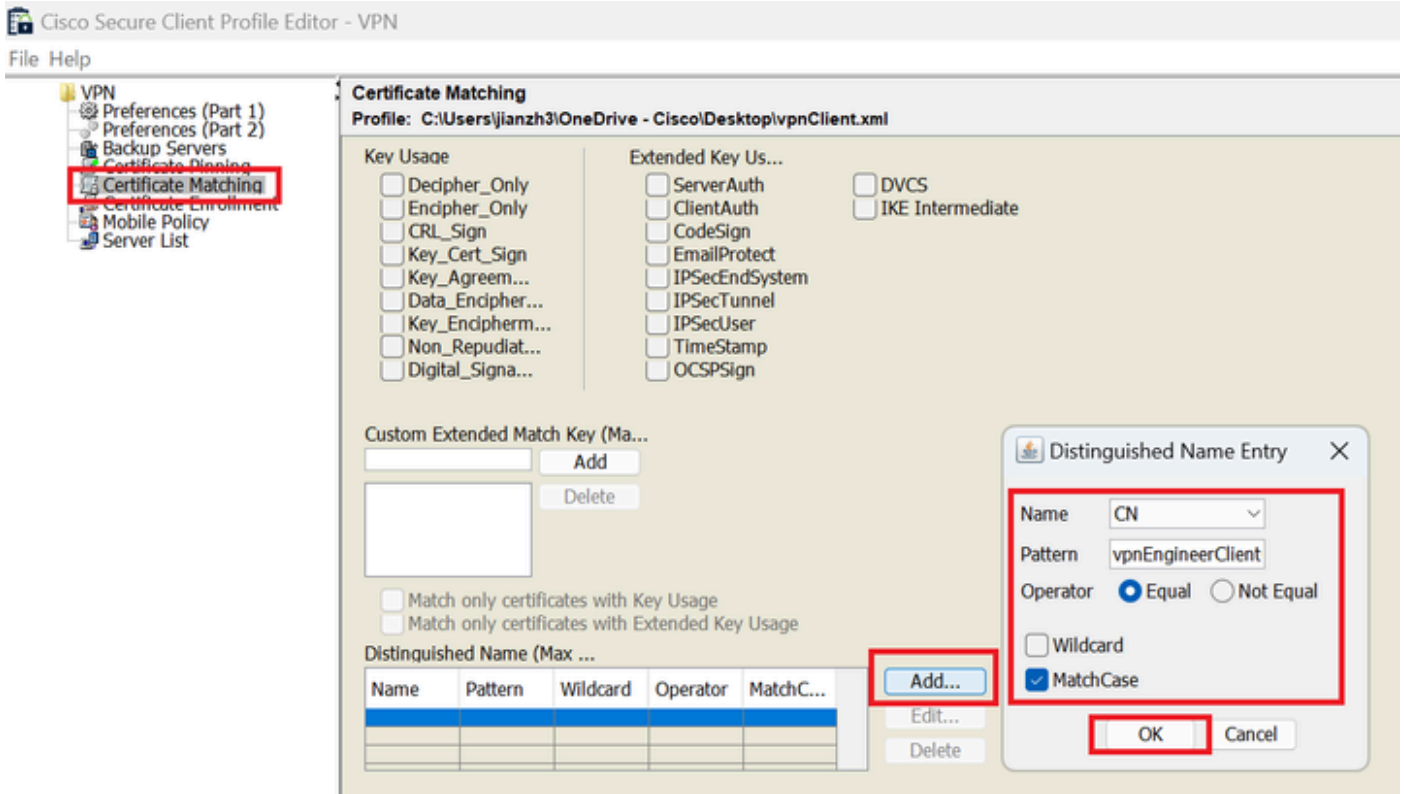
伺服器清單專案

導航到證書匹配，按一下增加按鈕。輸入增加可分辨名稱條目的必要資訊，然後按一下OK按鈕。

- 名稱：CN
- 模式：vpnEngineerClientCN
- 運算子：等於



附註：檢查本檔案中的MatchCase選項。



辨別名稱專案

將安全使用者端設定檔儲存到本機電腦，並確認設定檔的詳細資訊。

```

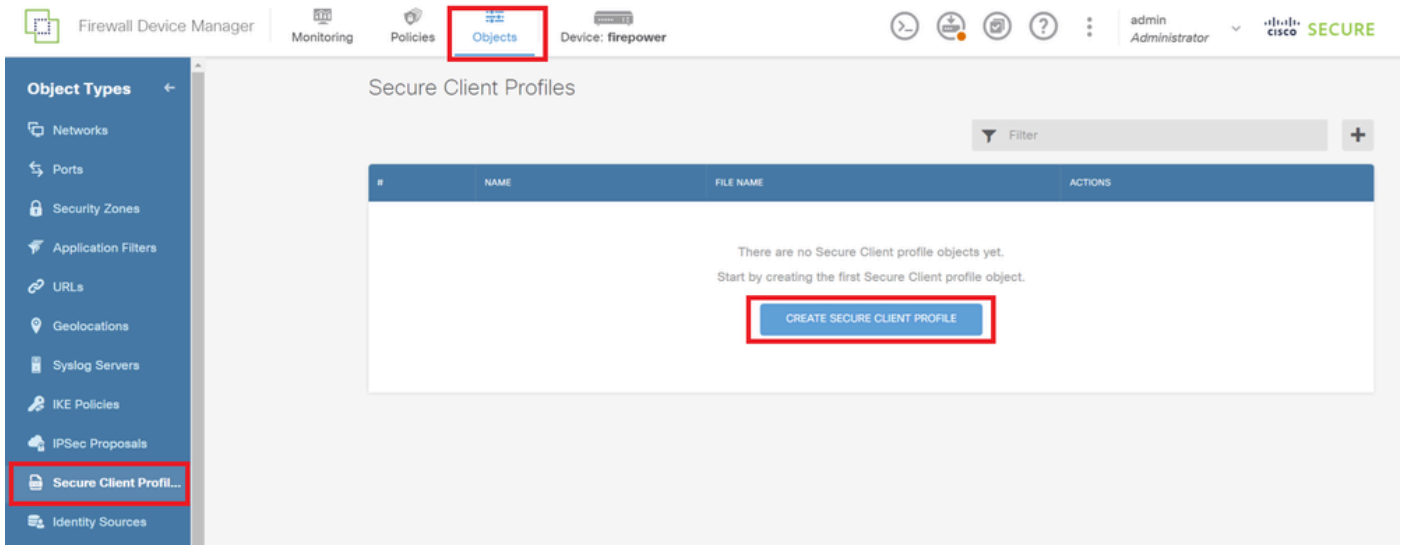
<CertificateMatch>
  <MatchOnlyCertsWithKLI>false</MatchOnlyCertsWithKLI>
  <DistinguishedName>
    <DistinguishedNameDefinition Operator="Equal" Wildcard="Disabled" MatchCase="Enabled">
      <Name>CN</Name>
      <Pattern>vpnEngineerClientCN</Pattern>
    </DistinguishedNameDefinition>
  </DistinguishedName>
</CertificateMatch>
<EnableAutomaticServerSelection UserControllable="false">
  false
  <AutoServerSelectionImprovement>20</AutoServerSelectionImprovement>
  <AutoServerSelectionSuspendTime>4</AutoServerSelectionSuspendTime>
</EnableAutomaticServerSelection>
<RetainVpnOnLogoff>false</RetainVpnOnLogoff>
<CaptivePortalRemediationBrowserFailover>false</CaptivePortalRemediationBrowserFailover>
<AllowManualHostInput>>true</AllowManualHostInput>
</ClientInitialization>
<ServerList>
  <HostEntry>
    <HostName>cert-match</HostName>
    <HostAddress>192.168.1.200</HostAddress>
  </HostEntry>
</ServerList>
</AnyConnectProfile>

```

安全使用者端設定檔

步驟 5. 上傳安全使用者端設定檔至FDM

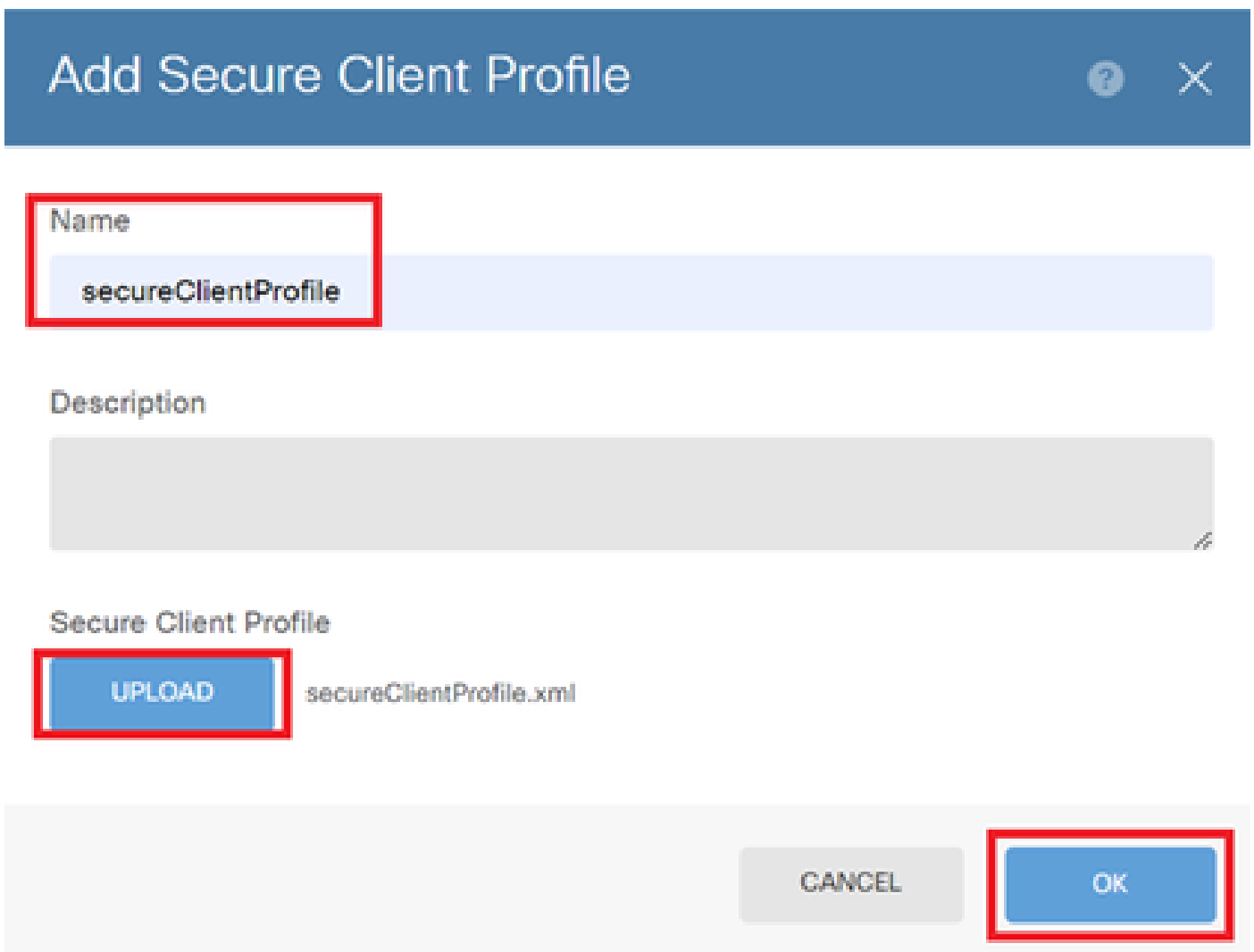
導航到對象>安全客戶端配置檔案，點選建立安全客戶端配置檔案按鈕。



建立安全客戶端配置檔案

輸入必要資訊增加安全客戶端配置檔案，並按一下OK按鈕。

- 名稱：secureClientProfile
- 安全使用者端設定檔：secureClientProfile.xml（從本機電腦上傳）



增加安全客戶端配置檔案

步驟 6. 增加組策略

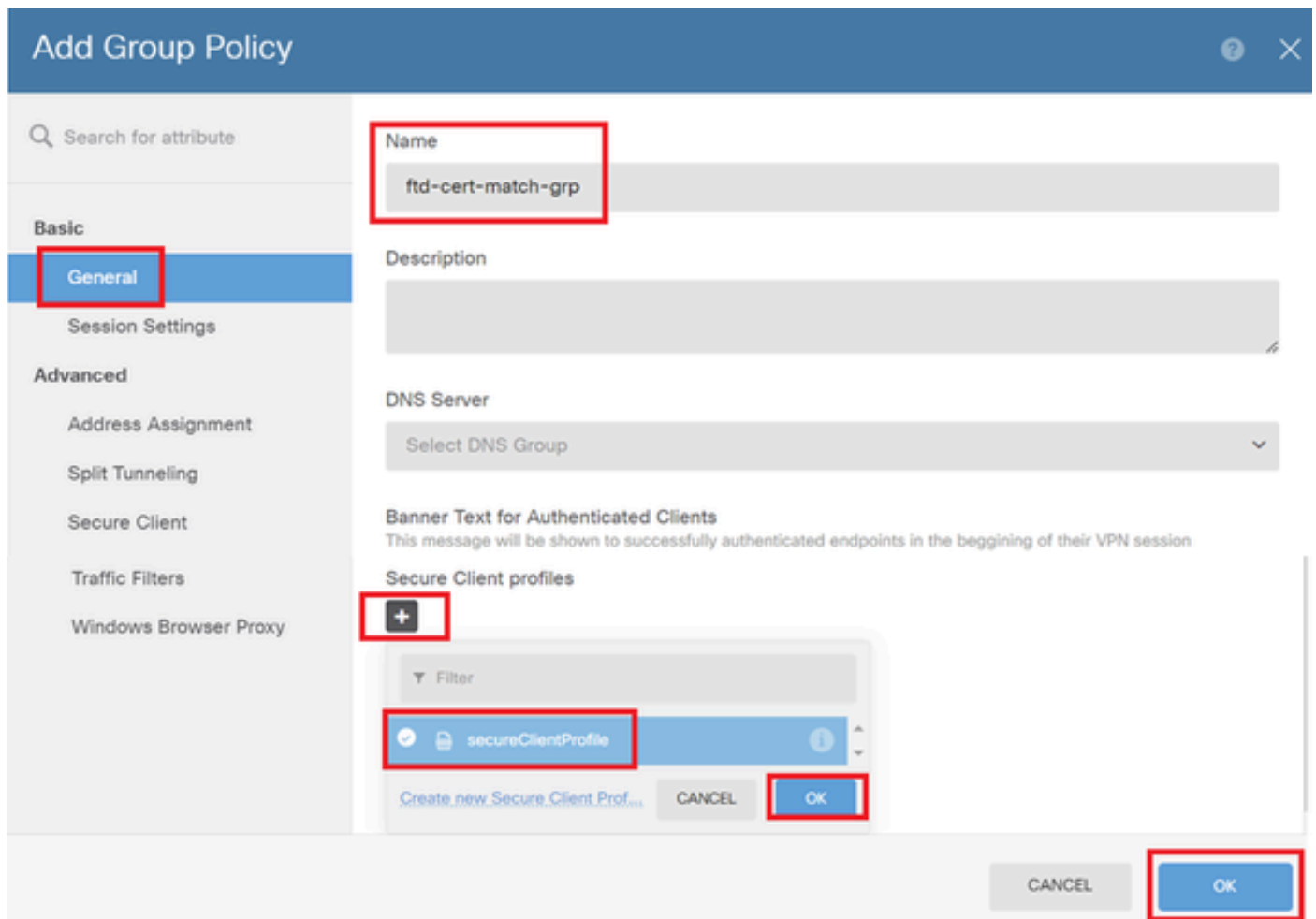
導航到裝置>遠端接入VPN >檢視配置>組策略，點選+按鈕。



增加組策略

輸入增加組策略所需的資訊，並按一下OK按鈕。

- 名稱：ftd-cert-match-grp
- 安全客戶端配置檔案：secureClientProfile



組策略的詳細資訊

步驟 7. 新增FTD憑證

導航到對象>證書，從+專案按一下增加內部證書。

Firewall Device Manager | Monitoring | Policies | **Objects** | Device: firepower | admin Administrator | CISCO SECURE

Object Types

- Networks
- Ports
- Security Zones
- Application Filters
- URLs
- Geolocations
- Syslog Servers
- IKE Policies
- IPSec Proposals
- Secure Client Profiles
- Identity Sources
- Users
- Certificates**

Certificates

121 objects

Filter

Preset filters: System defined, User defined

#	NAME	TYPE	ACTIONS
1	AAA-Certificate-Services	Trusted CA Certificate	
2	ACCVRAIZ1	Trusted CA Certificate	
3	Actalis-Authentication-Root-CA	Trusted CA Certificate	
4	AffirmTrust-Commercial	Trusted CA Certificate	
5	AffirmTrust-Networking	Trusted CA Certificate	
6	AffirmTrust-Premium	Trusted CA Certificate	
7	AffirmTrust-Premium-ECC	Trusted CA Certificate	
8	Amazon-Root-CA-1	Trusted CA Certificate	
9	Amazon-Root-CA-2	Trusted CA Certificate	
10	Amazon-Root-CA-3	Trusted CA Certificate	
11	DefaultInternalCertificate	Internal Certificate	
12	DefaultWebserverCertificate	Internal Certificate	

Actions: Add Internal CA, **Add Internal Certificate**, Add Trusted CA Certificate

增加內部證書

按一下Upload Certificate and Key。

Choose the type of internal certificate you want to create

Choose the type of internal certificate you want to create

- Upload Certificate and Key**
Create a certificate from existing files.
PEM and DER files are supported.
- Self-Signed Certificate
Create a new certificate that is signed by the device.

上傳憑證和金鑰

輸入FTD憑證的必要資訊、從本機電腦匯入憑證和憑證金鑰，然後按一下OK按鈕。

- 名稱：ftd-vpn-cert
- 特殊服務的驗證用法：SSL伺服器

Add Internal Certificate



Name

ftd-vpn-cert

Certificate

Paste certificate, or choose a file (DER, PEM, CRT, CER)

ftdCert.crt

Upload Certificate

```
-----BEGIN CERTIFICATE-----  
MIIDfDCCAeSgAwIBAgIIIkE99YS2cmwDQYJKoZIhvcNAQELBQAwbTElMAkGA1UE  
BhMCS1AxOjRjAMBgNVBAgTBVRva31vMQ4wDAYDVGQHEwUub2t5bzEOMAwGA1UEChMF  
O31vY31vOjRjAMBgNVBAgTBVRva31vMQ4wDAYDVGQHEwUub2t5bzEOMAwGA1UEChMF
```

Certificate Key

Paste certificate key, or choose a file (KEY, PEM)

ftdCertKey.pem

Upload Certificate Key

```
-----BEGIN RSA PRIVATE KEY-----  
MIIEogIBAAKCAQEAxdn5eTUngo5+GUG2Ng2FjI/+xHRkRrf6o2OccGdzLYK1tzw8  
98HPu1YP0T/qwCffXKuMQ9DEVGWIjLRX9nvXd8NoaKUbZVzc03qM3Aje87p0h0t0  
e46b1Y0G7aR+d11+4v03e4+bY6E8+1u4H4o73Ew7Y6Gm7TVw7T7A+0AYE-C
```

Validation Usage for Special Services

SSL Server

CANCEL

OK

內部證書的詳細資訊

步驟 8.新增CA至FTD

導航到對象>證書，從+專案按一下增加受信任CA證書。

Firewall Device Manager | Monitoring | Policies | **Objects** | Device: firepower | admin Administrator | CISCO SECURE

Application Filters | URLs | Geolocations | Syslog Servers | IKE Policies | IPSec Proposals | Secure Client Profiles | Identity Sources | Users | **Certificates** | Secret Keys

Certificates

120 objects

#	NAME	TYPE
1	NGFW-Default-InternalCA	Internal CA
2	AAA-Certificate-Services	Trusted CA Certificate
3	ACCVRAIZ1	Trusted CA Certificate
4	Actalis-Authentication-Root-CA	Trusted CA Certificate
5	AffirmTrust-Commercial	Trusted CA Certificate
6	AffirmTrust-Networking	Trusted CA Certificate
7	AffirmTrust-Premium	Trusted CA Certificate

Filter: Preset filters: System defined, User defined

ACTIONS: Add Internal CA, Add Internal Certificate, **Add Trusted CA Certificate**

增加受信任的CA證書

輸入CA的必要資訊，從本機電腦匯入憑證。

- 名稱：ftdvpn-ca-cert
- 特殊服務的驗證用法：SSL客戶端

Add Trusted CA Certificate

Name: ftdvpn-ca-cert

Certificate: ftd-ra-ca.crt **Upload Certificate**

Paste certificate, or choose a file (DER, PEM, CRT, CER)

```
-----BEGIN CERTIFICATE-----  
MIIDbDCCA1SgAwIBAgIIUkKgLG229/0wDQYJKoZIhvcNAQELBQAwbTELMAkGA1UE  
BHMCS1AxDjAMBgNVBAgTBVRva31vMQ4wDAYDQgQEwVUub2t5bzEOMAwGA1UEChMF  
O31-Y38-wD4AMBgNVBAgTBVRva31vMQ4wDAYDQgQEwVUub2t5bzEOMAwGA1UEChMF
```

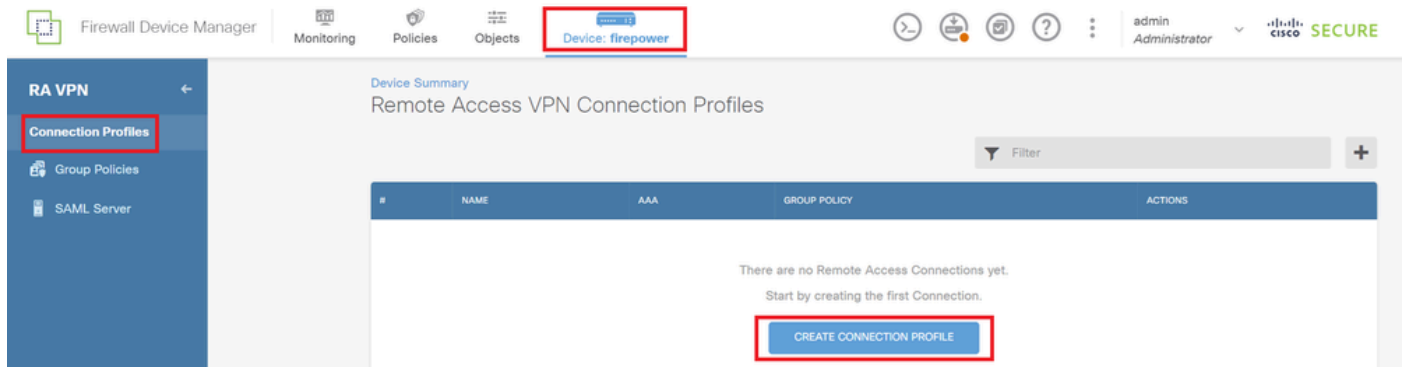
Skip CA Certificate Check ⓘ

Validation Usage for Special Services: **SSL Client**

CANCEL **OK**

步驟 9. 增加遠端訪問VPN連線配置檔案

導航到裝置>遠端接入VPN >檢視配置>連線配置檔案，點選建立連線配置檔案按鈕。



增加遠端訪問VPN連線配置檔案

輸入連線配置檔案的必要資訊，然後按一下Next按鈕。

- 連線配置檔名稱：ftd-cert-match-vpn
- 驗證型別：僅使用者端憑證
- 來自證書的使用者名稱：對映特定欄位
- 主要欄位：CN（一般名稱）
- 次要欄位：OU（組織單位）
- IPv4地址池：ftd-cert-match-pool

Remote Access VPN | 1 Connection and Client Configuration | 2 Remote User Experience | 3 Global Settings | 4 Summary



Connection and Client Configuration

Specify how to authenticate remote users and the secure clients they can use to connect to the inside network.

Connection Profile Name

This name is configured as a connection alias, it can be used to connect to the VPN gateway

ftd-cert-match-vpn

Group Alias (one per line, up to 5)

ftd-cert-match-vpn

Group URL (one per line, up to 5)

Primary Identity Source

Authentication Type

Client Certificate Only

Username from Certificate

Map Specific Field

Primary Field: CN (Common Name) | Secondary Field: OU (Organisational Unit)

Use entire DN (distinguished name) as username

Advanced

Authorization Server

Please select

Accounting Server

Please select

Client Address Pool Assignment

IPv4 Address Pool

Endpoints are provided an address from this pool

ftd-cert-match-pool

IPv6 Address Pool

Endpoints are provided an address from this pool

+

DHCP Servers

+

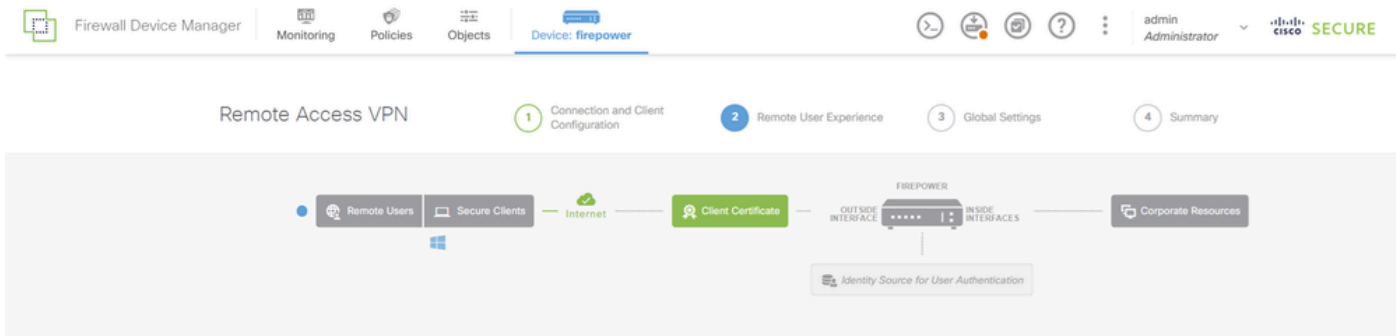
CANCEL

NEXT

VPN連線配置檔案的詳細資訊

輸入組策略的必要資訊，並按一下Next按鈕。

- 檢視組策略：ftd-cert-match-grp



Remote User Experience

A group policy is a collection of user-oriented session attributes which are assigned to client when a VPN connection is established. Select or create a Group Policy object.

View Group Policy

ftd-cert-match-grp

Policy Group Brief Details

DNS + BANNER Edit

DNS Server None

Banner Text for Authentication

BACK NEXT

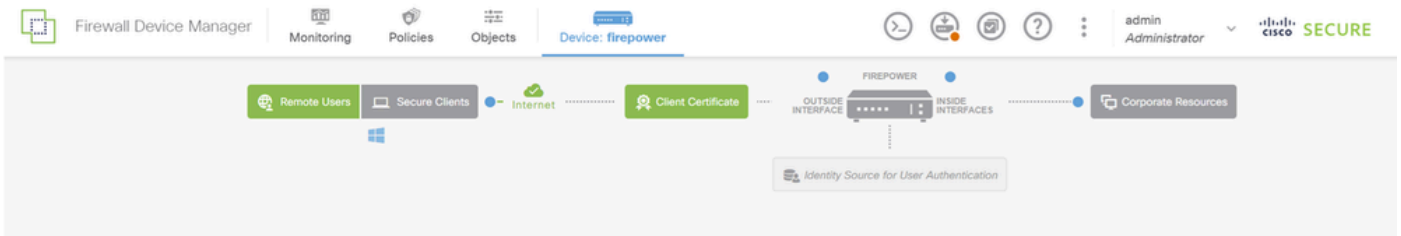
選擇組策略

為VPN連線選擇Certificate of Device Identity、Outside Interface、Secure Client Package。

- 裝置身份證書：ftd-vpn-cert
- 外部介面：外部(GigabitEthernet0/0)
- 安全客戶端軟體套件：cisco-secure-client-win-5.1.4.74-webdeploy-k9.pkg



注意：本文檔中停用了NAT免除功能。



Global Settings

These settings control the basic functioning of the connection. Changes to any of these options apply to all connection profiles; you cannot configure different settings in different profiles.

Certificate of Device Identity
ftd-vpn-cert (Validation Usage: SSL Se...)

Outside Interface
outside (GigabitEthernet0/0)

Fully-qualified Domain Name for the Outside Interface
Port
e.g. rvpn.example.com 443
e.g. 8080

Access Control for VPN Traffic
Decrypted VPN traffic is subjected to access control policy inspection by default. Enabling the Bypass Access Control policy for decrypted traffic option bypasses the access control policy, but for remote access VPN, the VPN Filter ACL and the authorization ACL downloaded from the AAA server are still applied to VPN traffic.

Bypass Access Control policy for decrypted traffic (sysopt permit-vpn)

NAT Exempt

Secure Client Package
If a user does not already have the right secure client package installed, the system will launch the secure client installer when the client authenticates for the first time. The user can then install the package from the system. You can download secure client packages from software.cisco.com. You must have the necessary secure client software license.

Packages
UPLOAD PACKAGE
Windows: cisco-secure-client-win-5.1.4.74-webdeploy-k9.pkg

BACK NEXT

全局設定的詳細資訊

步驟 10. 確認連線設定檔摘要

確認輸入的VPN連線資訊，然後按一下FINISH按鈕。

^ Summary

Review the summary of the Remote Access VPN configuration.

Ftd-Cert-Match-Vpn

STEP 1: CONNECTION AND CLIENT CONFIGURATION

Primary Identity Source

Authentication Type: Client Certificate Only

Primary Identity Source: -

Fallback Local Identity Source: -

Username from Certificate: Map Specific Field

Primary Field: CN (Common Name)

Secondary Field: OU (Organisational Unit)

Advanced

Authorization Server

Accounting Server

Client Address Pool Assignment

IPv4 Address Pool: ftd-cert-match-pool

IPv6 Address Pool: -

DHCP Servers: -

STEP 2: GROUP POLICY

Group Policy Name: ftd-cert-match-grp

Banner + DNS Server

DNS Server: -

Banner text for authenticated clients: -

Session Settings

Maximum Connection Time / Alert Interval: Unlimited / 1 minutes

Idle Timeout / Alert Interval: 30 / 1 minutes

Simultaneous Login per User: 3

Split Tunneling

IPv4 Split Tunneling: Allow all traffic over tunnel

IPv6 Split Tunneling: Allow all traffic over tunnel

Secure Client

Secure Client Profiles: secureClientProfile

STEP 3: GLOBAL SETTINGS

Certificate of Device Identity: ftd-vpn-cert

Outside Interface: GigabitEthernet0/0 (outside)

Fully-qualified Domain Name for the Outside Interface: -

Port: 443

Access Control for VPN Traffic: No

NAT Exempt

NAT Exempt: No

Inside Interfaces: -

Inside Networks: -

Secure Client Package

Packages: Windows: cisco-secure-client-win-5.1.4.74-webdeploy-k9.pkg

BACK FINISH

確認連線設定檔摘要

在FTD CLI中確認

從FDM部署後，在FTD CLI中確認VPN連線設定。

```
// Defines IP of interface
interface GigabitEthernet0/0
speed auto
nameif outside
cts manual
propagate sgt preserve-untag
policy static sgt disabled trusted
security-level 0
ip address 192.168.1.200 255.255.255.0

// Defines a pool of addresses
ip local pool ftd-cert-match-pool 172.16.1.150-172.16.1.160

// Defines Trustpoint for Server Certificate
crypto ca trustpoint ftd-vpn-cert
enrollment terminal
keypair ftd-vpn-cert
crl configure

// Server Certificate
crypto ca certificate chain ftdvpn-ca-cert
certificate ca 5242a02e0db6f7fd
3082036c 30820254 a0030201 02020852 42a02e0d b6f7fd30 0d06092a 864886f7
.....
quit

// Defines Trustpoint for CA
crypto ca trustpoint ftdvpn-ca-cert
enrollment terminal
validation-usage ssl-client
crl configure

// CA
crypto ca certificate chain ftdvpn-ca-cert
certificate ca 5242a02e0db6f7fd
3082036c 30820254 a0030201 02020852 42a02e0d b6f7fd30 0d06092a 864886f7
.....
quit

// Configures the FTD to allow Cisco Secure Client connections and the valid Cisco Secure Client images
webvpn
enable outside
http-headers
hsts-server
enable
max-age 31536000
include-sub-domains
no preload
hsts-client
enable
x-content-type-options
x-xss-protection
content-security-policy
anyconnect image disk0:/anyconnpkgs/cisco-secure-client-win-5.1.4.74-webdeploy-k9.pkg 2
anyconnect profiles secureClientProfile disk0:/anyconncprofs/secureClientProfile.xml
anyconnect enable
tunnel-group-list enable
cache
disable
error-recovery disable

// Configures the group-policy to allow SSL connections
```

```
group-policy ftd-cert-match-grp internal
group-policy ftd-cert-match-grp attributes
dhcp-network-scope none
vpn-simultaneous-logins 3
vpn-idle-timeout 30
vpn-idle-timeout alert-interval 1
vpn-session-timeout none
vpn-session-timeout alert-interval 1
vpn-filter none
vpn-tunnel-protocol ssl-client
split-tunnel-policy tunnelall
ipv6-split-tunnel-policy tunnelall
split-dns none
split-tunnel-all-dns disable
client-bypass-protocol disable
msie-proxy method no-modify
vlan none
address-pools none
ipv6-address-pools none
webvpn
anyconnect ssl dtls none
anyconnect mtu 1406
anyconnect ssl keepalive none
anyconnect ssl rekey time none
anyconnect ssl rekey method none
anyconnect dpd-interval client none
anyconnect dpd-interval gateway none
anyconnect ssl compression none
anyconnect dtls compression none
anyconnect modules none
anyconnect profiles value secureClientProfile type user
anyconnect ssl df-bit-ignore disable
always-on-vpn profile-setting

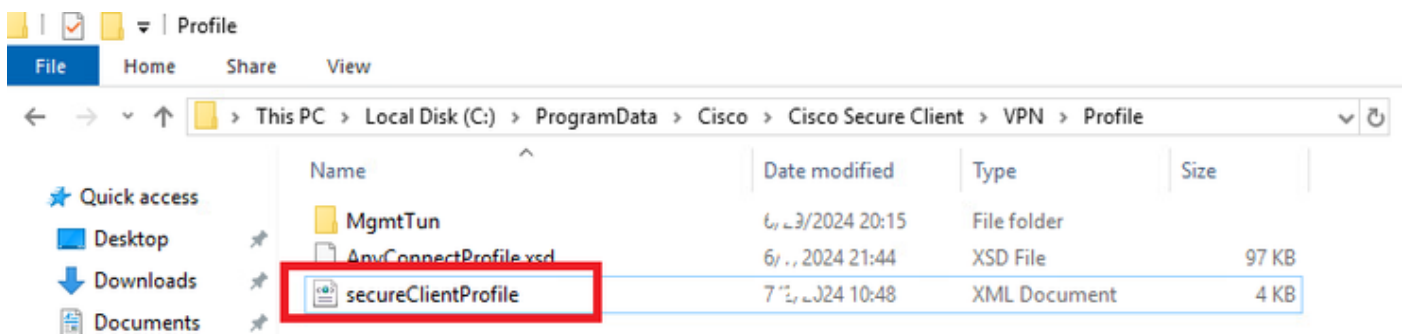
// Configures the tunnel-group to use the certificate authentication
tunnel-group ftd-cert-match-vpn type remote-access
tunnel-group ftd-cert-match-vpn general-attributes
address-pool ftd-cert-match-pool
default-group-policy ftd-cert-match-grp
tunnel-group ftd-cert-match-vpn webvpn-attributes
authentication certificate
group-alias ftd-cert-match-vpn enable
```

在VPN客戶端中確認

步驟 1. 將安全客戶端配置檔案複製到VPN客戶端

將安全客戶端配置檔案複製到工程師VPN客戶端和管理員VPN客戶端。

注意：Windows電腦中Secure Client配置檔案的目錄：C:\ProgramData\Cisco\Cisco Secure Client\VPN\Profile



將安全客戶端配置檔案複製到VPN客戶端

步驟 2. 確認使用者端憑證

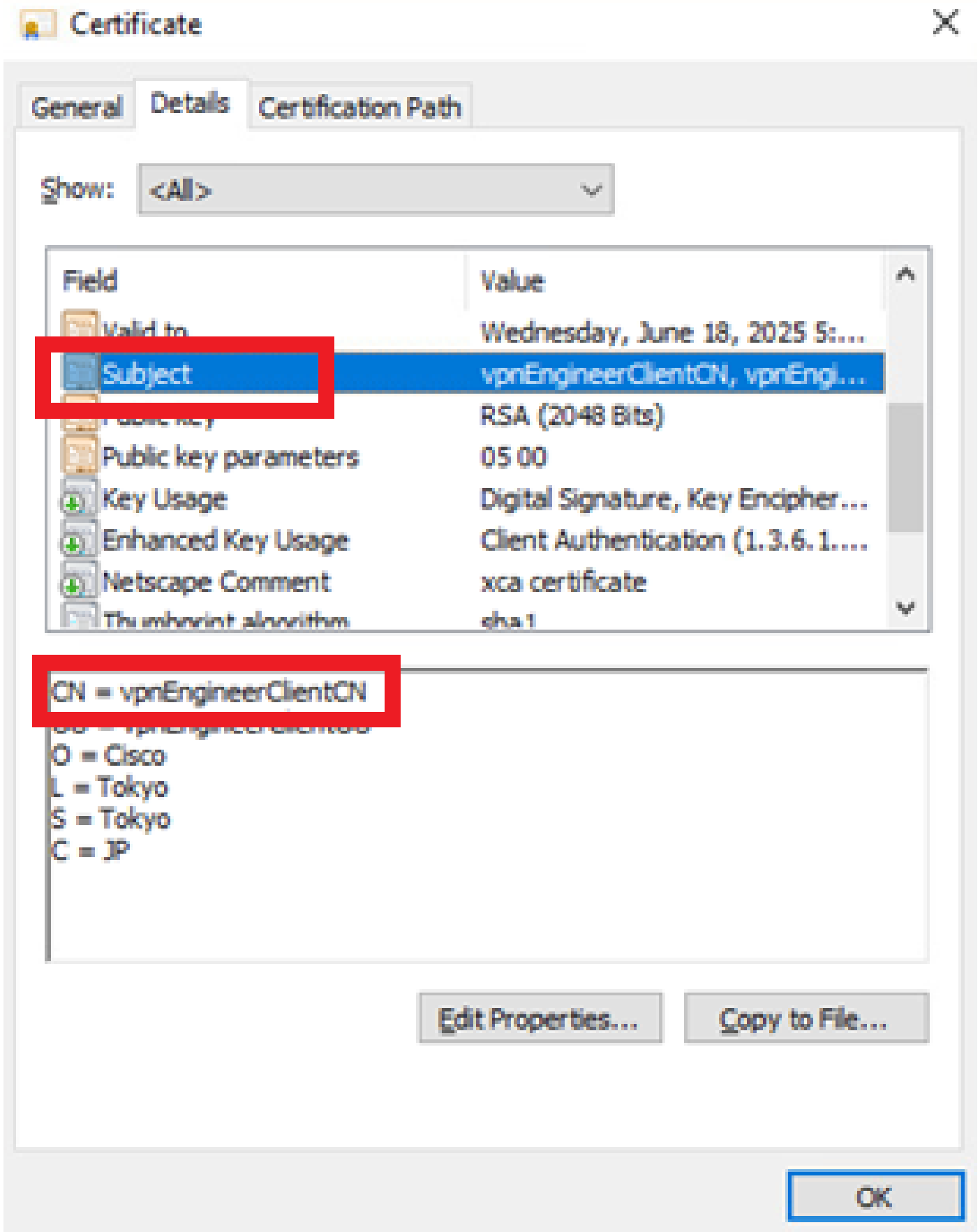
在工程VPN客戶端中，導航到證書-當前使用者>個人>證書，檢查用於身份驗證的客戶端證書。



確認工程師VPN客戶端的證書

按兩下客戶端證書，導航到Details，檢查Subject的詳細資訊。

- 主題：CN = vpnEngineerClientCN



工程師客戶端證書的詳細資訊

在Manager VPN Client中，導航到Certificates - Current User > Personal > Certificates，檢查用於身份驗證的客戶端證書。



確認Manager VPN客戶端的證書

按兩下客戶端證書，導航到Details，檢查Subject的詳細資訊。

- 主題：CN = vpnManagerClientCN

Certificate



General Details Certification Path

Show: <All>

Field	Value
Issued To	Thursday, June 19, 2025 9:41...
Subject	vpnManagerClientCN, vpnMan...
Public key	RSA (2048 Bits)
Public key parameters	05 00
Key Usage	Digital Signature, Key Encipher...
Enhanced Key Usage	Client Authentication (1.3.6.1....
Netscape Comment	xca certificate
Thumbprint algorithm	sha1

CN = vpnManagerClientCN

O = Cisco
L = Tokyo
S = Tokyo
C = JP

Edit Properties...

Copy to File...

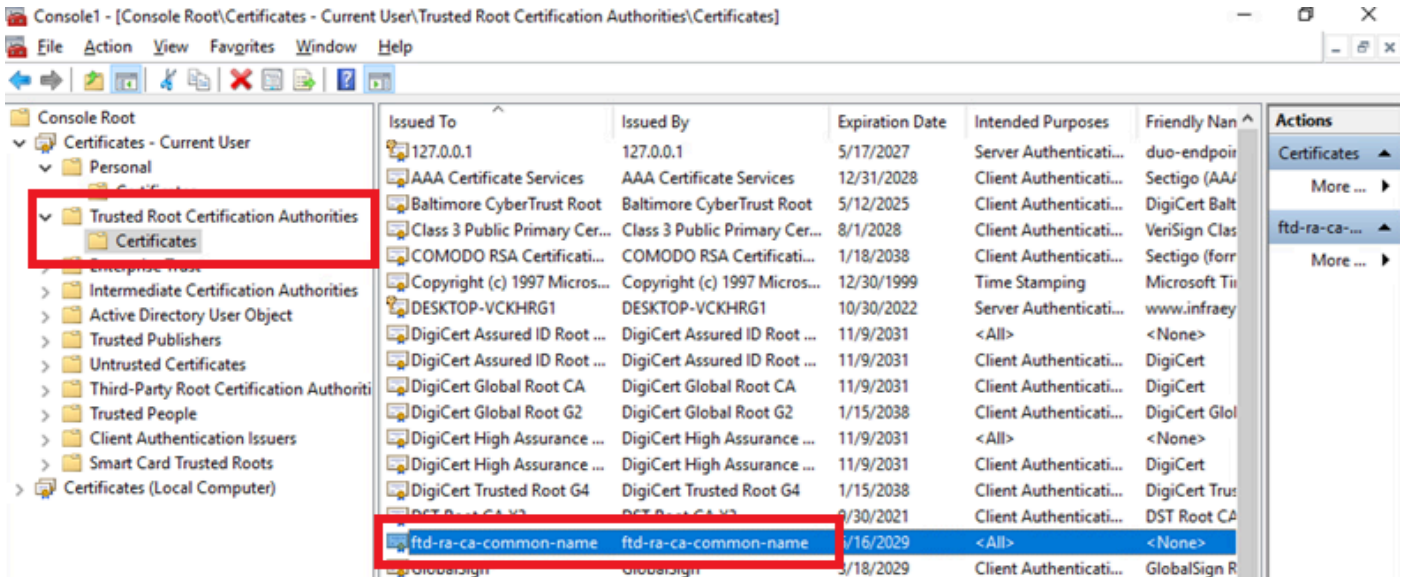
OK

Manager客戶端證書的詳細資訊

步驟 3. 確認CA

在工程VPN客戶端和管理器VPN客戶端中，導航到證書-當前使用者>受信任的根證書頒發機構>證書，檢查用於身份驗證的CA。

- 頒發者：ftd-ra-ca-common-name

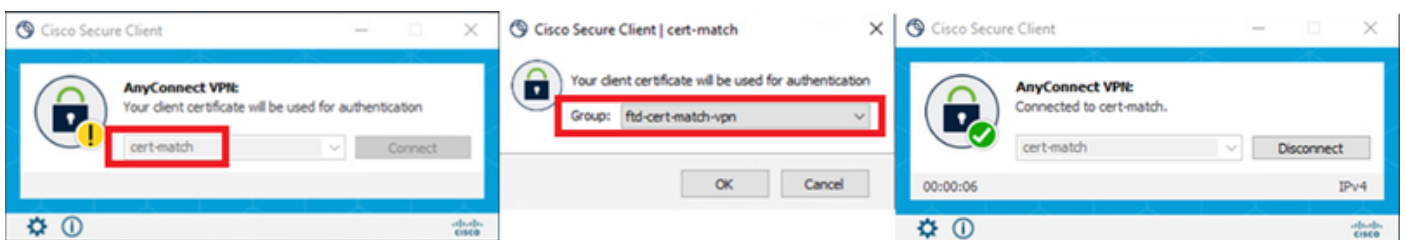


確認CA

驗證

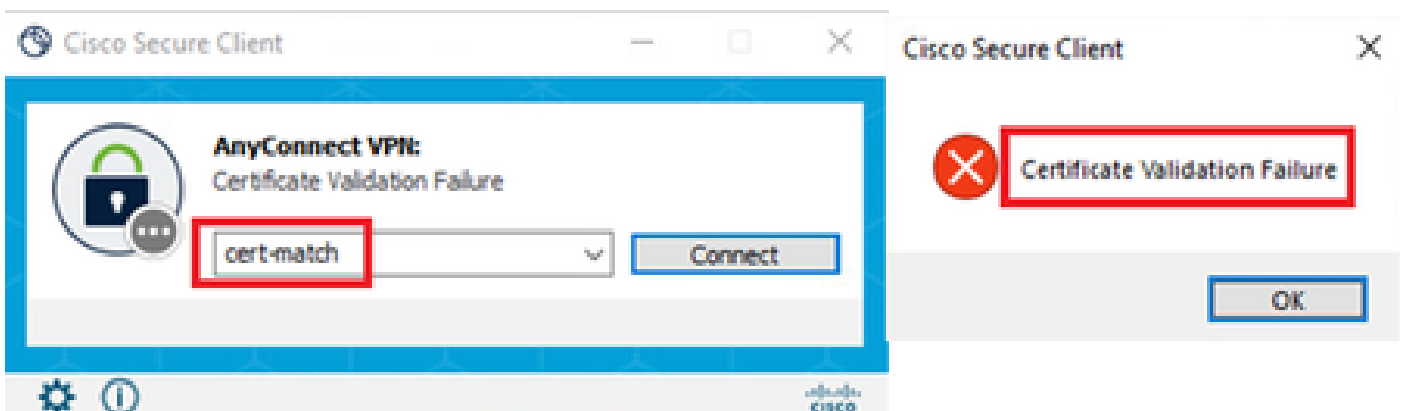
步驟 1. 啟動VPN連線

在工程VPN客戶端中，啟動Cisco Secure Client連線。無需輸入使用者名稱和密碼，VPN連線成功。



工程師VPN客戶端的VPN連線成功

在管理器VPN客戶端中，啟動Cisco安全客戶端連線。由於證書驗證失敗，VPN連線失敗。



步驟 2. 在FTD CLI中確認VPN作業階段

在FTD (Lina) CLI中執行show vpn-sessiondb detail anyconnect命令，以確認工程師的VPN作業階段。

```
firepower# show vpn-sessiondb detail anyconnect
```

Session Type: AnyConnect Detailed

Username : vpnEngineerClientCN Index : 32
Assigned IP : 172.16.1.150 Public IP : 192.168.1.11
Protocol : AnyConnect-Parent SSL-Tunnel
License : AnyConnect Premium
Encryption : AnyConnect-Parent: (1)none SSL-Tunnel: (1)AES-GCM-256
Hashing : AnyConnect-Parent: (1)none SSL-Tunnel: (1)SHA384
Bytes Tx : 14718 Bytes Rx : 12919
Pkts Tx : 2 Pkts Rx : 51
Pkts Tx Drop : 0 Pkts Rx Drop : 0
Group Policy : ftd-cert-match-grp Tunnel Group : ftd-cert-match-vpn
Login Time : 05:42:03 UTC Tue Jul 2 2024
Duration : 0h:00m:11s
Inactivity : 0h:00m:00s
VLAN Mapping : N/A VLAN : none
Audt Sess ID : 0000000000200006683932b
Security Grp : none Tunnel Zone : 0

AnyConnect-Parent Tunnels: 1

SSL-Tunnel Tunnels: 1

AnyConnect-Parent:

Tunnel ID : 32.1
Public IP : 192.168.1.11
Encryption : none Hashing : none
TCP Src Port : 50170 TCP Dst Port : 443
Auth Mode : Certificate
Idle Time Out: 30 Minutes Idle TO Left : 29 Minutes
Client OS : win
Client OS Ver: 10.0.17763
Client Type : AnyConnect
Client Ver : Cisco AnyConnect VPN Agent for Windows 5.1.4.74
Bytes Tx : 7359 Bytes Rx : 0
Pkts Tx : 1 Pkts Rx : 0
Pkts Tx Drop : 0 Pkts Rx Drop : 0

SSL-Tunnel:

Tunnel ID : 32.2
Assigned IP : 172.16.1.150 Public IP : 192.168.1.11
Encryption : AES-GCM-256 Hashing : SHA384
Ciphersuite : ECDHE-RSA-AES256-GCM-SHA384
Encapsulation: TLSv1.2 TCP Src Port : 50177
TCP Dst Port : 443 Auth Mode : Certificate
Idle Time Out: 30 Minutes Idle TO Left : 30 Minutes
Client OS : Windows
Client Type : SSL VPN Client
Client Ver : Cisco AnyConnect VPN Agent for Windows 5.1.4.74

Bytes Tx : 7359 Bytes Rx : 12919

Pkts Tx : 1 Pkts Rx : 51

Pkts Tx Drop : 0 Pkts Rx Drop : 0

疑難排解

您可以期待在Lina引擎的調試系統日誌和Windows電腦上的DART檔案中找到有關VPN身份驗證的資訊。

這是來自工程師客戶端的VPN連線期間Lina引擎中的調試日誌示例。

Jul 02 2024 04:16:03: %FTD-7-717029: Identified client certificate within certificate chain. serial number: 7AF1C78ADCC8F941, subject name: CN=vpnEngineerClientCN

Jul 02 2024 04:16:03: %FTD-6-717022: Certificate was successfully validated. serial number: 7AF1C78ADCC8F941, subject name: CN=vpnEngineerClientCN

Jul 02 2024 04:16:04: %FTD-6-113009: AAA retrieved default group policy (ftd-cert-match-grp) for user = vpnEngineerClientCN

Jul 02 2024 04:16:09: %FTD-6-725002: Device completed SSL handshake with client outside:192.168.1.11/50158 to 192.168.1.200/443 for TLSv1.2 session

相關資訊

[設定Firepower 2100的FDM機上管理服務](#)

[在FDM管理的FTD上設定遠端存取VPN](#)

[在Firepower裝置管理器中配置和驗證系統日誌](#)

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）。