

使用PEAP、ISE 2.1和WLC 8.3配置802.1X身份驗證

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簡介

本檔案介紹如何設定具有802.1x安全性和虛擬區域網路(VLAN)覆寫的無線區域網路(WLAN)。

必要條件

需求

思科建議您瞭解以下主題：

- 802.1x
- 受保護的可擴充驗證通訊協定(PEAP)
- 證書頒發機構(CA)
- 憑證

採用元件

本文中的資訊係根據以下軟體和硬體版本：

- WLC v8.3.102.0
- 身分識別服務引擎(ISE)v2.1
- Windows 10筆記型電腦

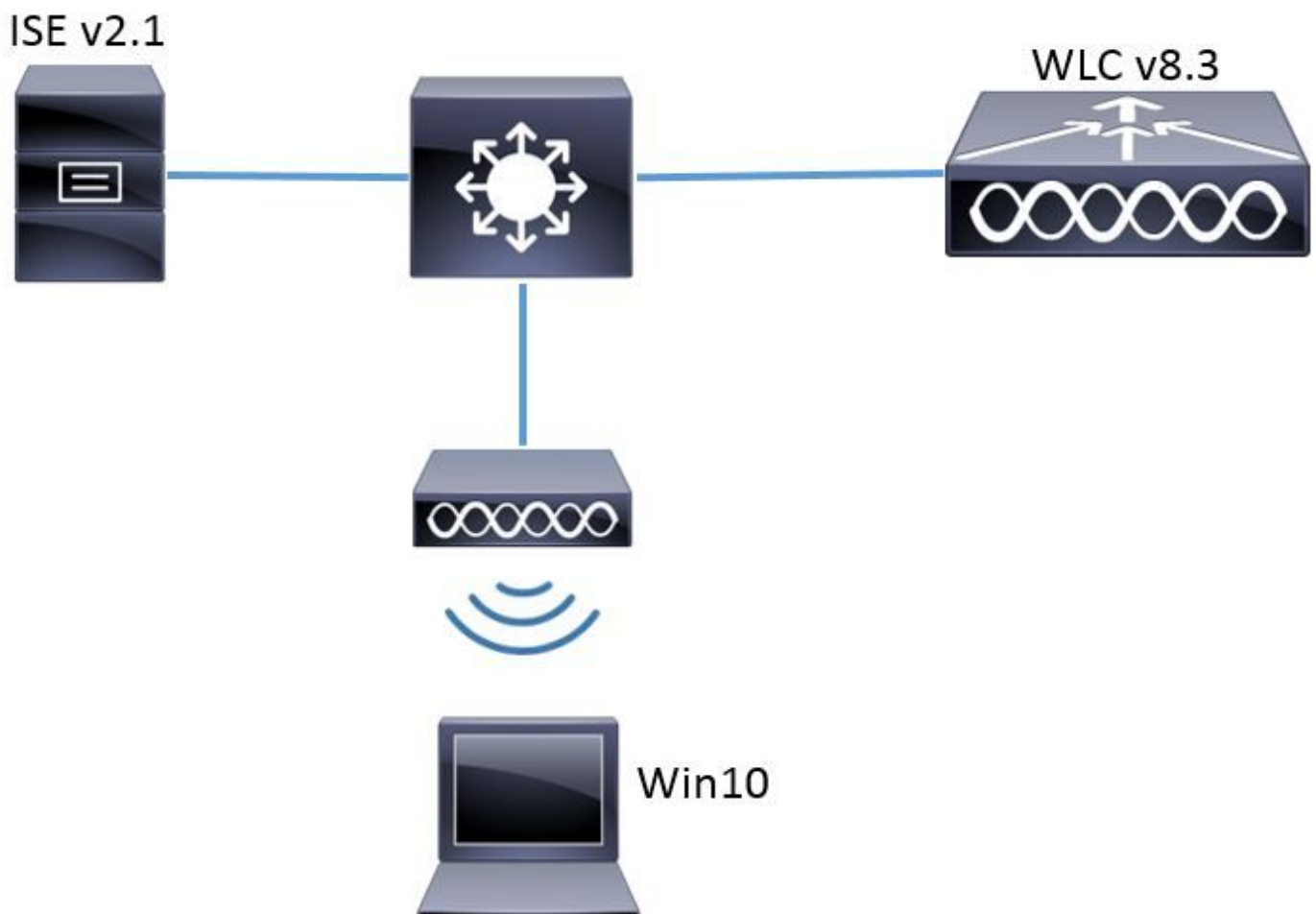
本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除（預設）的組態來啟動。如果您的網路運作中，請確保您瞭解任何指令可能造成的影響。

背景資訊

當您設定具有802.1x安全性和VLAN的WLAN時，可以將受保護的可擴展身份驗證協定作為可擴展身份驗證協定(EAP)進行覆蓋。

設定

網路圖表



組態

一般步驟如下：

1. 宣告WLC上的RADIUS伺服器，反之亦然，允許彼此通訊。
2. 在WLC中建立服務組識別碼(SSID)。
3. 在ISE上建立身份驗證規則。
4. 在ISE上建立授權配置檔案。
5. 在ISE上建立授權規則。
6. 配置終結點。

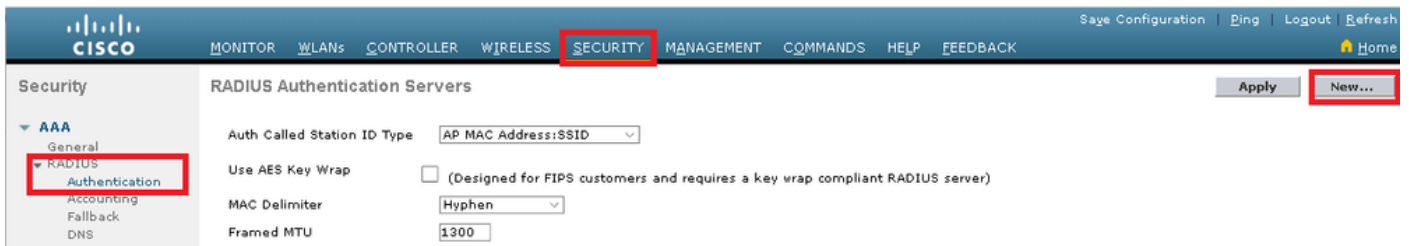
宣告WLC上的RADIUS伺服器

若要允許RADIUS伺服器和WLC之間的通訊，您需要在WLC上註冊RADIUS伺服器，反之亦然。

GUI:

步驟 1. 開啟WLC的GUI，然後導覽至SECURITY > RADIUS > Authentication > New，如下圖所示。

o



步驟 2. 輸入RADIUS伺服器資訊，如圖所示。

RADIUS Authentication Servers > New

Server Index (Priority)	2
Server IP Address(Ipv4/Ipv6)	a.b.c.d
Shared Secret Format	ASCII
Shared Secret	••••••••
Confirm Shared Secret	••••••••
Key Wrap	<input type="checkbox"/> (Designed for FIPS customers and requires a key wrap compliant RADIUS server)
Port Number	1812
Server Status	Enabled
Support for CoA	Disabled
Server Timeout	10 seconds
Network User	<input checked="" type="checkbox"/> Enable
Management	<input checked="" type="checkbox"/> Enable
Management Retransmit Timeout	2 seconds
IPSec	<input type="checkbox"/> Enable

CLI:

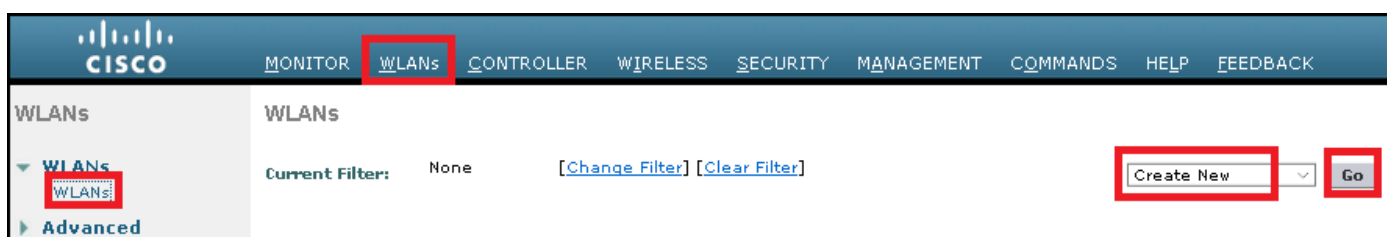
```
> config radius auth add <index> <a.b.c.d> 1812 ascii <shared-key>
> config radius auth disable <index>
> config radius auth retransmit-timeout <index> <timeout-seconds>
> config radius auth enable <index>
```

<a.b.c.d>對應於RADIUS伺服器。

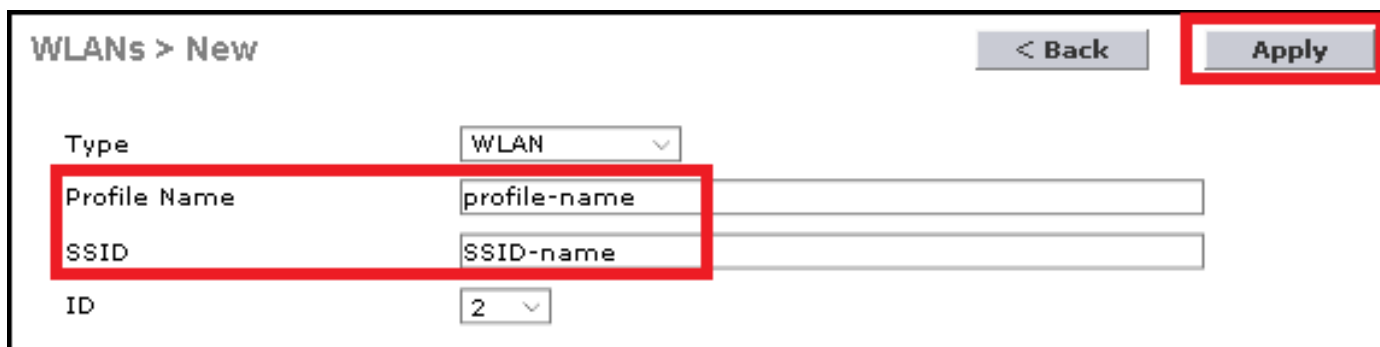
建立SSID

GUI:

步驟 1.開啟WLC的GUI，然後導覽至WLANs > Create New > Go，如下圖所示。



步驟 2.選擇SSID和配置檔案的名稱，然後按一下Apply，如下圖所示。



CLI:

```
> config wlan create <id> <profile-name> <ssid-name>
```

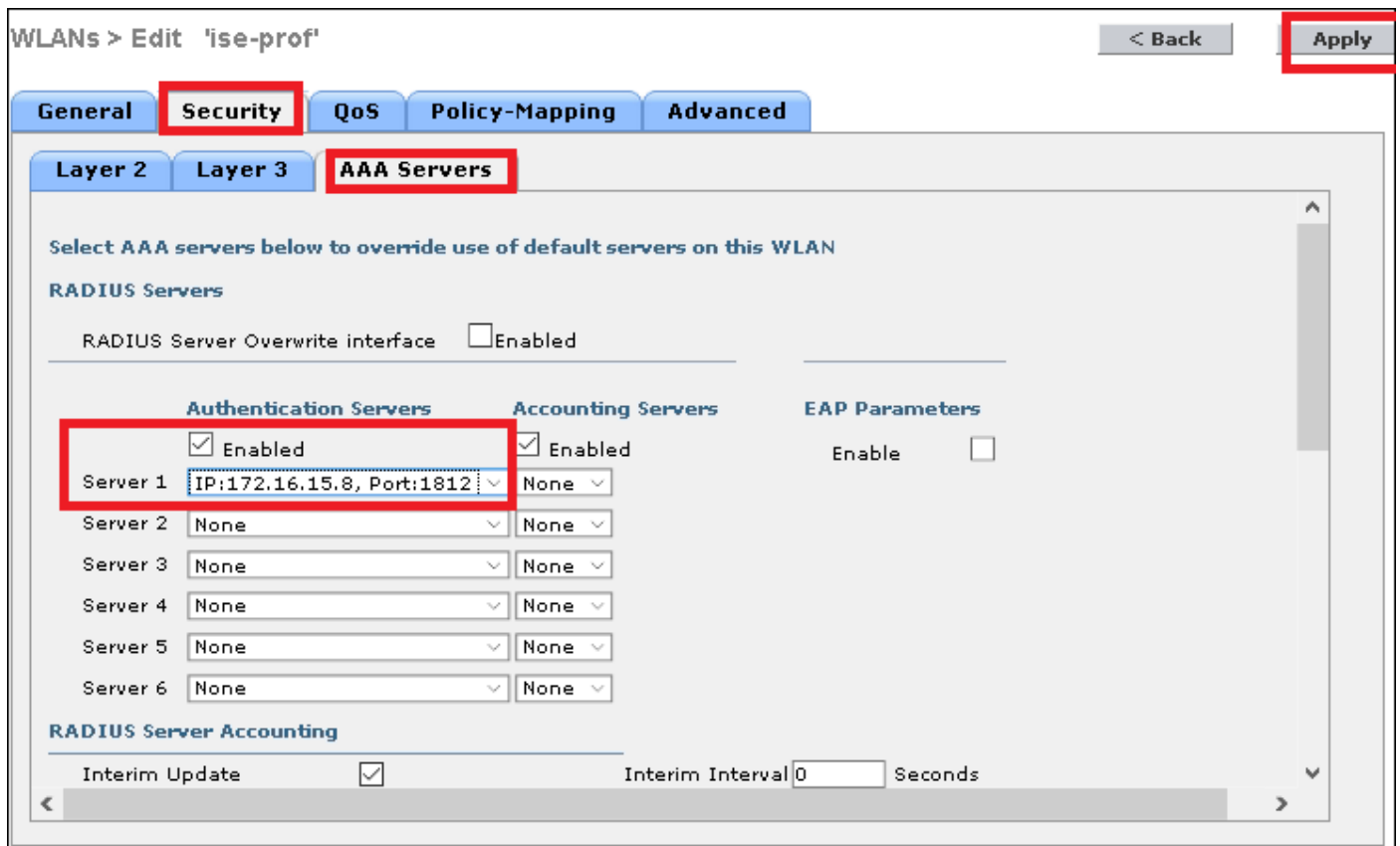
步驟 3.將RADIUS伺服器指定給WLAN。

CLI:

```
> config wlan radius_server auth add <wlan-id> <radius-index>
```

GUI:

導覽至Security > AAA Servers，然後選擇所需的RADIUS伺服器，然後按圖中所示的Apply。



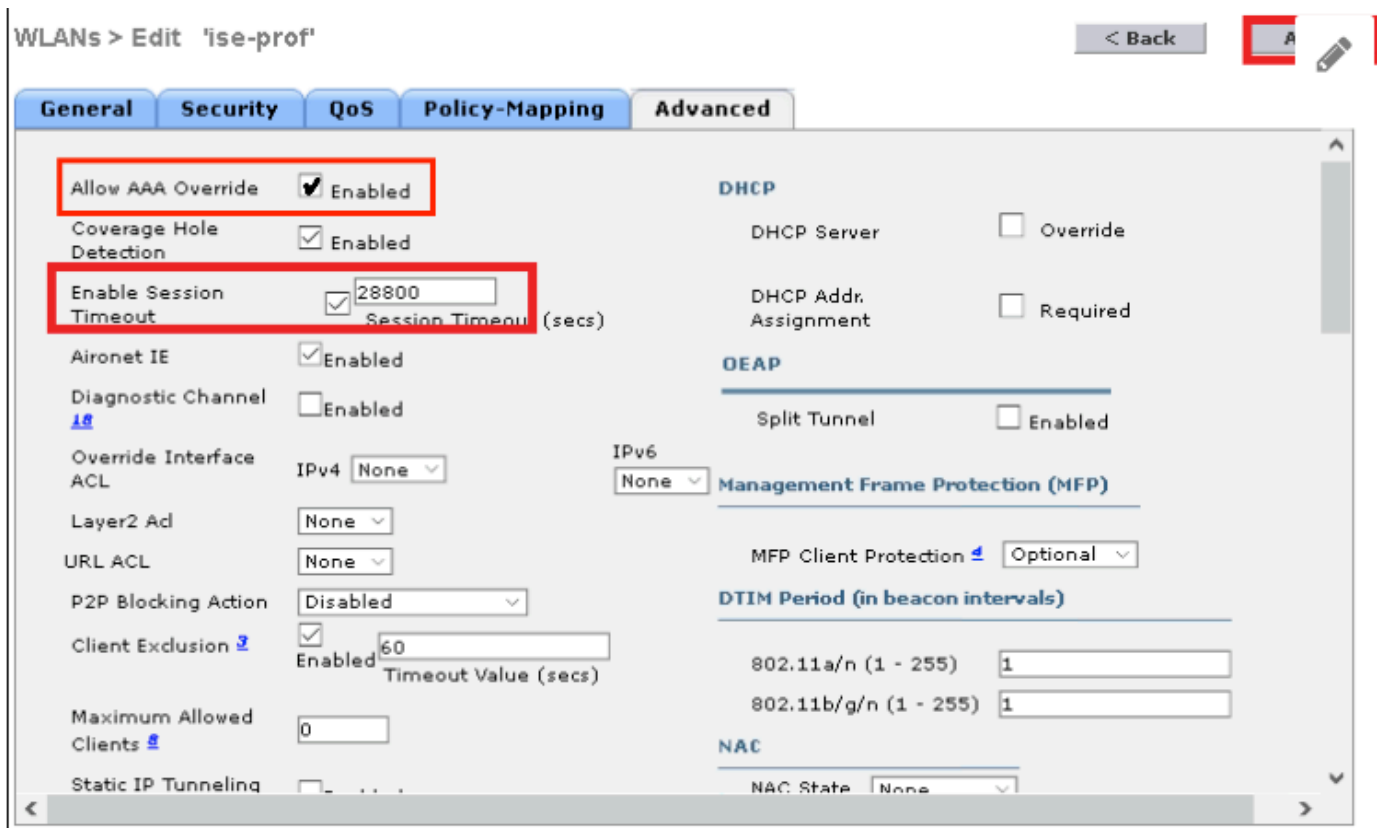
步驟 4.啟用Allow AAA Override，並選擇性地增加會話超時

CLI:

```
> config wlan aaa-override enable <wlan-id>  
> config wlan session-timeout <wlan-id> <session-timeout-seconds>
```

GUI:

導覽至WLANs > WLAN ID > Advanced，然後啟用Allow AAA Override。或者指定會話超時，如下圖所示。



步驟 5. 啟用WLAN。

CLI:

```
> config wlan enable <wlan-id>
```

GUI:

導覽至WLANs > WLAN ID > General，然後啟用SSID，如下圖所示。

WLANs > Edit 'ise-prof' < Back Apply

General Security QoS Policy-Mapping Advanced

Profile Name: ise-prof

Type: WLAN

SSID: ise-ssid

Status: Enabled

Security Policies: [WPA2][Auth(802.1X)]
(Modifications done under security tab will appear after applying the changes.)

Radio Policy: All

Interface/Interface Group(G): management

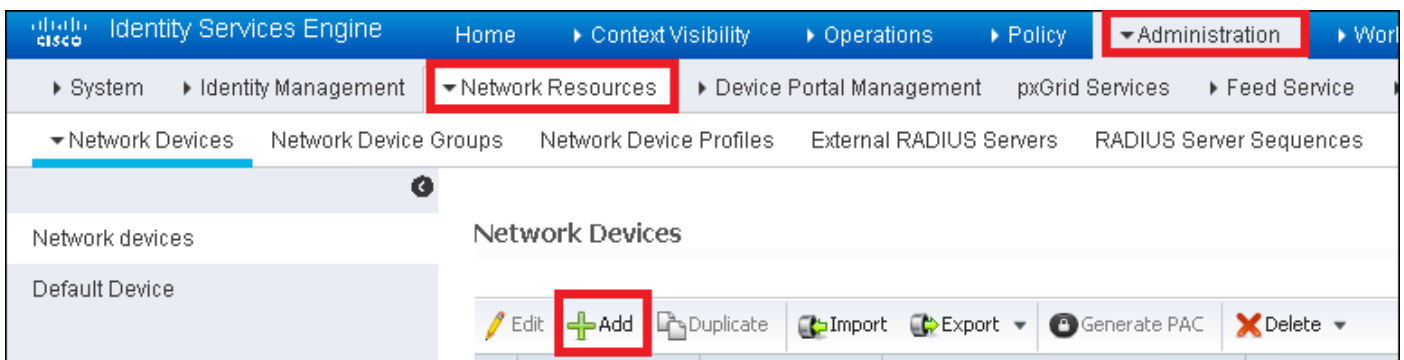
Multicast Vlan Feature: Enabled

Broadcast SSID: Enabled

NAS-ID: none

在ISE上宣告WLC

步驟 1. 開啟ISE控制檯並導航到管理>網路資源>網路裝置>新增，如下圖所示。



步驟 2. 輸入值。

或者，它可以是指定的型號名稱、軟體版本、說明，並根據裝置型別、位置或WLC分配網路裝置組。

a.b.c.d對應傳送所要求驗證的WLC介面。預設情況下，它是管理介面，如下圖所示。

Network Devices

* Name

Description

* IP Address: /

* Device Profile

Model Name

Software Version

* Network Device Group

Device Type

Location

WLCs

Enable Authentication Settings

Protocol **RADIUS**

* Shared Secret

Enable KeyWrap

* Key Encryption Key

* Message Authenticator Code Key

Key Input Format ASCII HEXADECIMAL

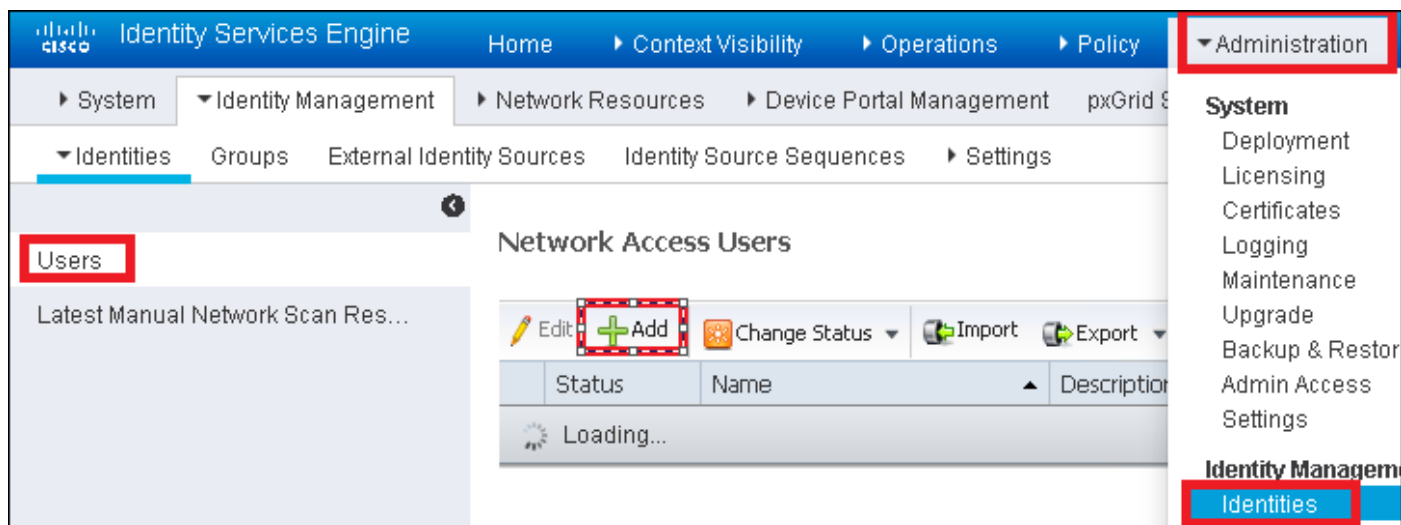
CoA Port

有關網路裝置組的詳細資訊：

[ISE – 網路裝置群組](#)

在 ISE 上建立新使用者

步驟 1. 導覽至 Administration > Identity Management > Identities > Users > Add，如下圖所示。



步驟 2. 輸入資訊。

在此示例中，此使用者屬於名為 ALL_ACCOUNTS 的組，但可以根據需要對其進行調整，如圖所示。

。

▼ Network Access User

* Name

Status Enabled ▼

Email

▼ Passwords

Password Type: ▼

Password

Re-Enter Password

* Login Password

Enable Password

▼ User Information

First Name

Last Name

▼ Account Options

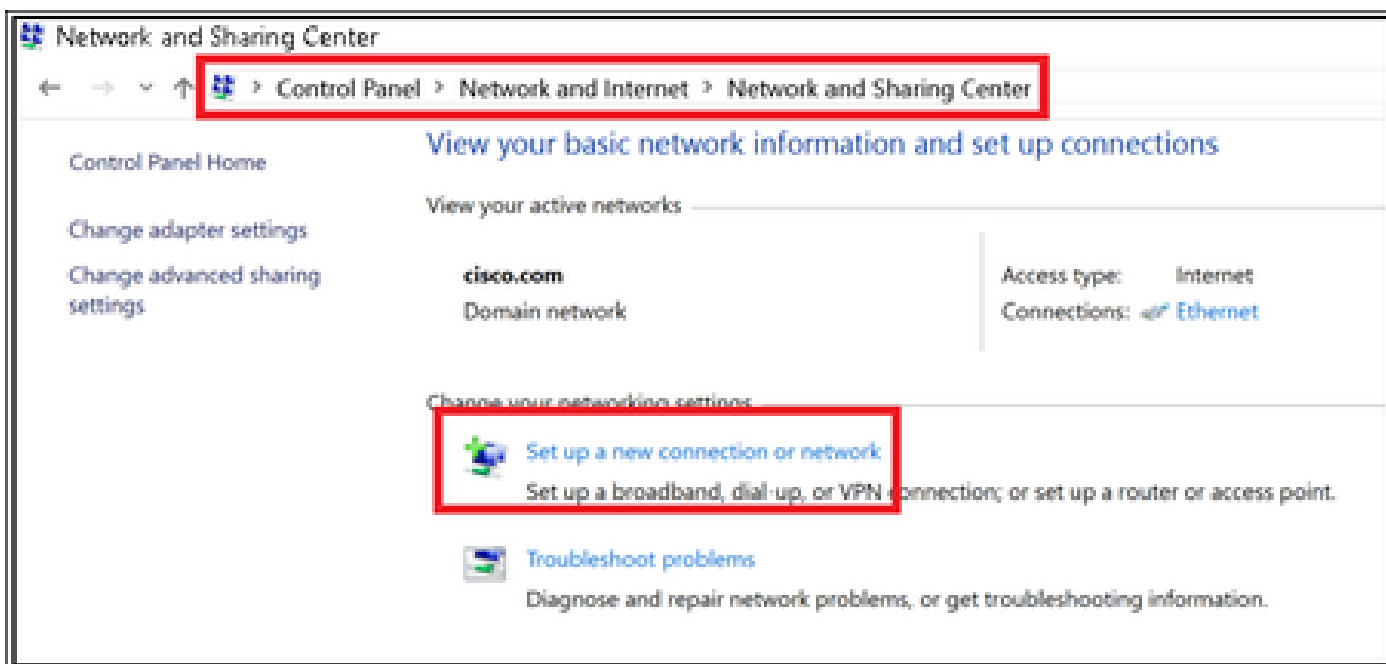
Description

Change password on next login

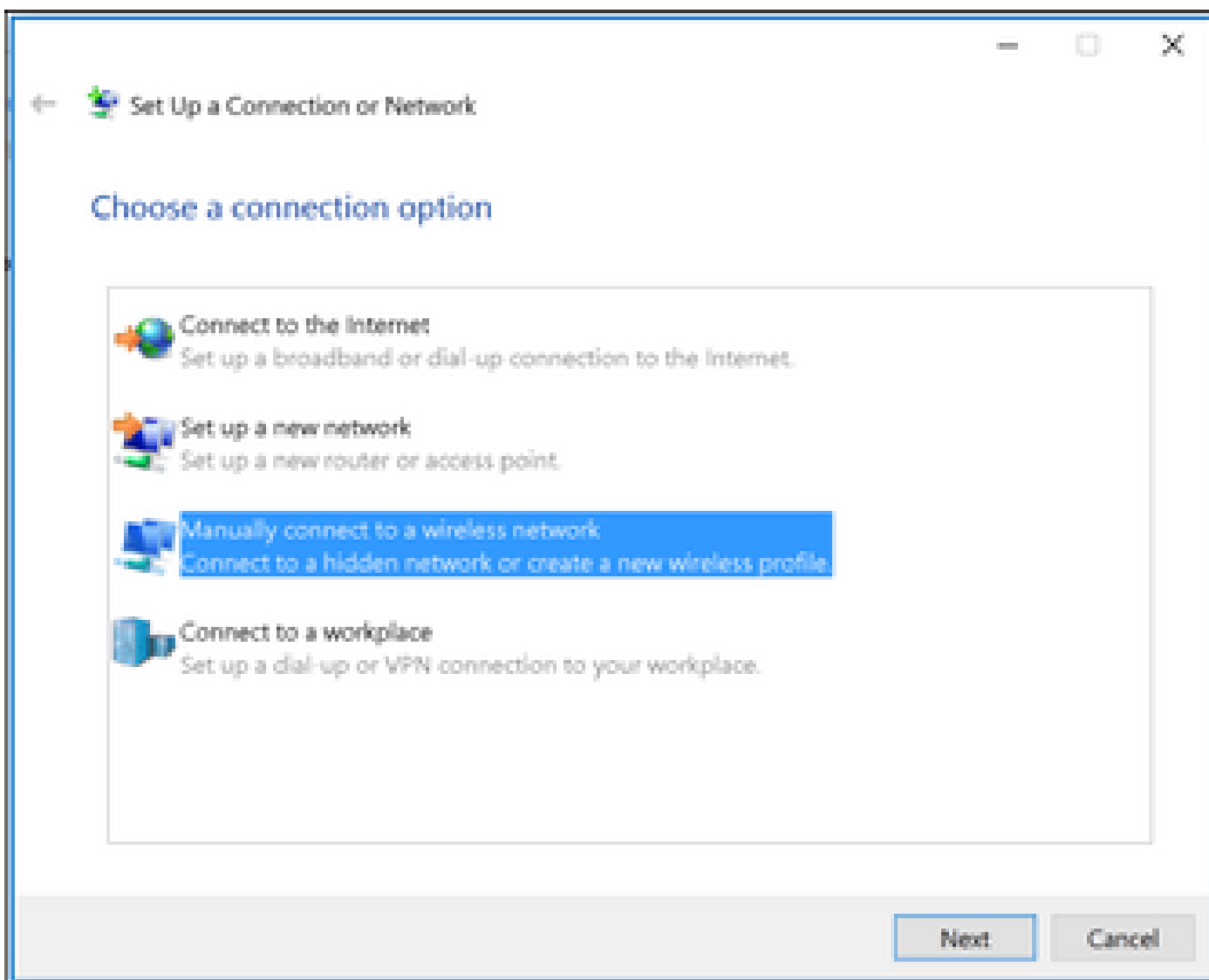
▼ Account Disable Policy

Disable account if date exceeds

▼ User Groups



步驟 3. 選擇 Manually connect to a wireless network，然後按一下 Next，如下圖所示。



步驟 4. 輸入SSID名稱和安全型別WPA2-Enterprise的資訊，然後按一下Next (如圖所示)。

← Manually connect to a wireless network

Enter information for the wireless network you want to add

Network name:

Security type:

Encryption type:

Security Key: Hide characters

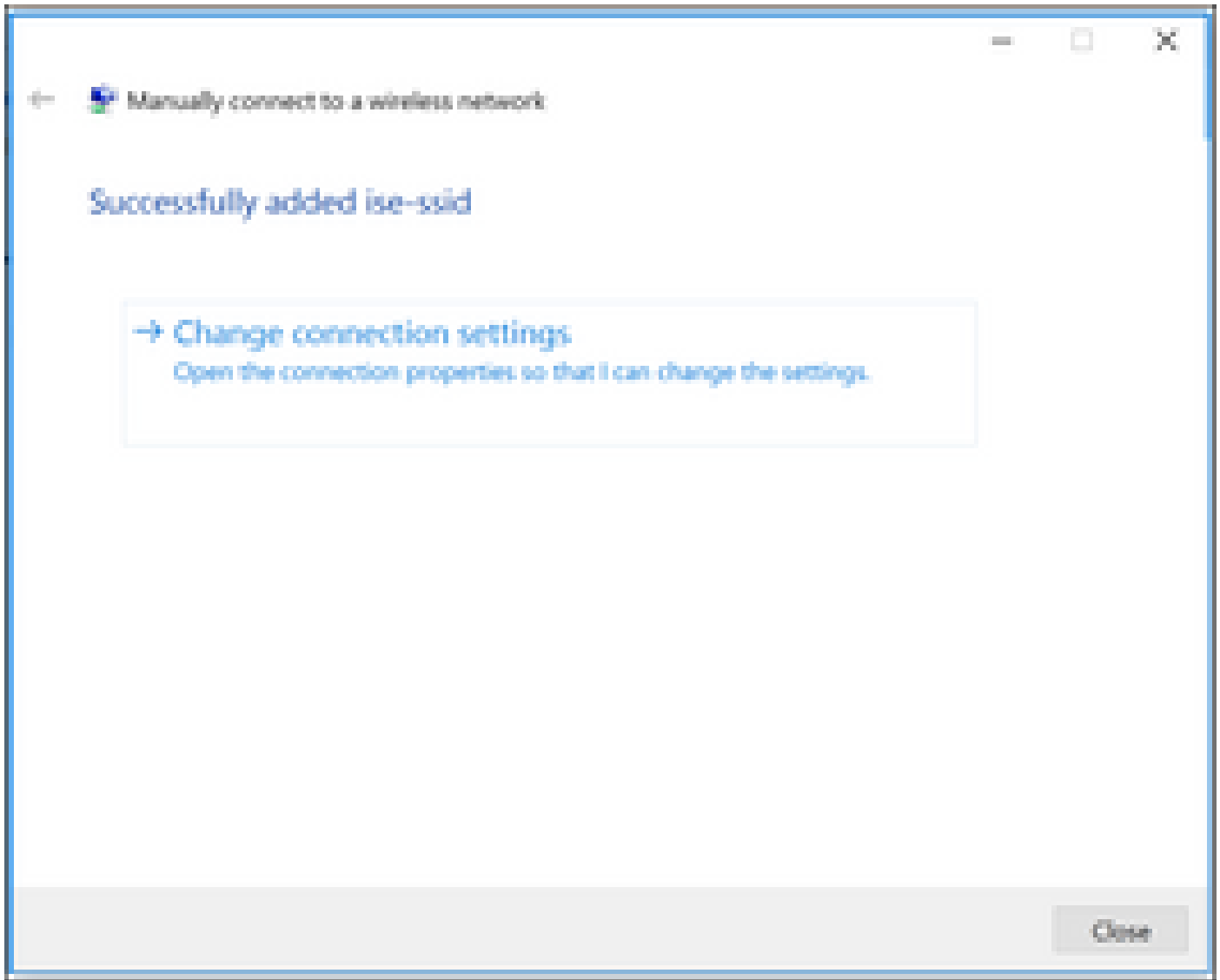
Start this connection automatically

Connect even if the network is not broadcasting

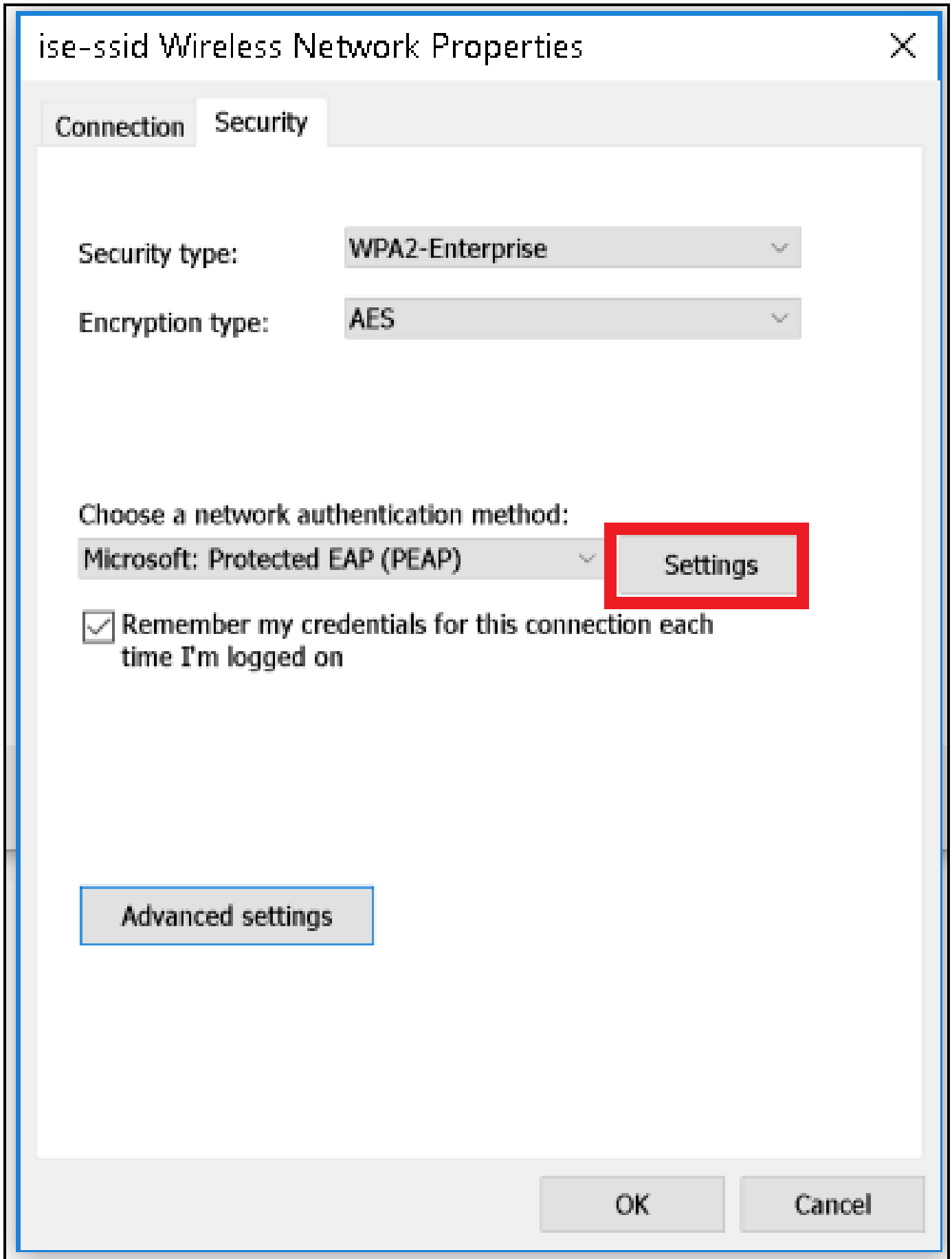
Warning: If you select this option, your computer's privacy might be at risk.

Next Cancel

步驟 5. 選擇Change connection settings以自訂WLAN設定檔的組態，如下圖所示。



步驟 6. 導覽至Security索引標籤，然後按一下Settings，如下圖所示。



步驟 7. 選擇是否驗證了RADIUS伺服器。

如果是，請啟用驗證伺服器身份，方法是驗證證書，並從受信任的根證書頒發機構：清單選擇ISE的自簽名證書。

選擇Configure並禁用Automatically use my Windows logon name and password...後，按一下OK，如下圖所示。

Protected EAP Properties



When connecting:

Verify the server's identity by validating the certificate

Connect to these servers (examples: srv1;srv2;.*\,srv3\.com):

Trusted Root Certification Authorities:

- English Global Root...
- English Global Root...
- English Global Root...
- EAP-SelfSignedCertificate
- English Global Root...
- English Global Root...
- English Global Root...
- English Global Root...

Notifications before connecting:

Tell user if the server name or root certificate isn't specified

Select Authentication Method:

Secured password (EAP-MSCHAP v2)

Configure...

Enable Fast Reconnect

Disconnect if server does not present cryptobinding TLV

Enable Identity Privacy

OK

Cancel

返回Security頁籤後，選擇Advanced settings，將身份驗證模式指定為使用者身份驗證，並儲存ISE上配置的憑據，以便驗證使用者，如圖所示。

ise-ssid Wireless Network Properties



Connection Security

Security type: WPA2-Enterprise

Encryption type: AES

Choose a network authentication method:

Microsoft: Protected EAP (PEAP) Settings

Remember my credentials for this connection each time I'm logged on

Advanced settings

OK

Cancel

Advanced settings



802.1X settings

802.11 settings

Specify authentication mode:

User authentication

Save credentials

Delete credentials for all users

Enable single sign on for this network

Perform immediately before user logon

Perform immediately after user logon

Maximum delay (seconds):

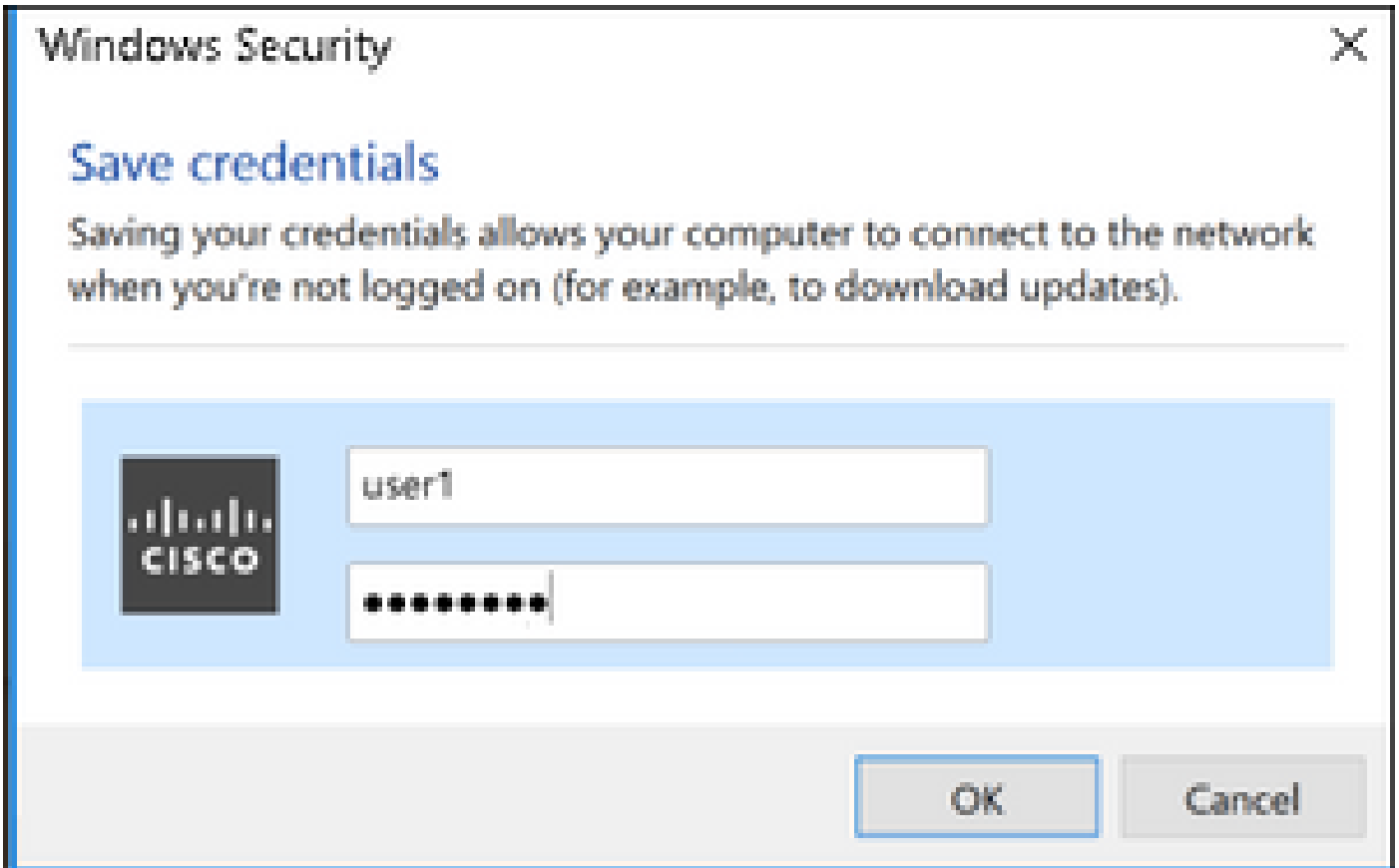
10

Allow additional dialogs to be displayed during single sign on

This network uses separate virtual LANs for machine and user authentication

OK

Cancel



驗證

使用本節內容，確認您的組態是否正常運作。

驗證流程可以從WLC或ISE角度驗證。

WLC上的驗證程式

運行以下命令以監控特定使用者的身份驗證過程：

```
> debug client <mac-add-client>
> debug dot1x event enable
> debug dot1x aaa enable
```

身份驗證成功的示例（某些輸出被省略）：

```
<#root>
```

```
*apfMsConnTask_1: Nov 24 04:30:44.317:
```

```
e4:b3:18:7c:30:58 Processing assoc-req station:e4:b3:18:7c:30:58 AP:00:c8:8b:26:2c:d0-00
```

```
thread:1a5cc288
```

```
*apfMsConnTask_1: Nov 24 04:30:44.317: e4:b3:18:7c:30:58 Reassociation received from mobile on BSSID 00
```

```
*apfMsConnTask_1: Nov 24 04:30:44.318: e4:b3:18:7c:30:58 Applying Interface(management) policy on Mobil
```

*apfMsConnTask_1: Nov 24 04:30:44.318: e4:b3:18:7c:30:58 Applying site-specific Local Bridging override
*apfMsConnTask_1: Nov 24 04:30:44.318: e4:b3:18:7c:30:58 Applying Local Bridging Interface Policy for s
*apfMsConnTask_1: Nov 24 04:30:44.318: e4:b3:18:7c:30:58 RSN Capabilities: 60
*apfMsConnTask_1: Nov 24 04:30:44.318: e4:b3:18:7c:30:58 Marking Mobile as non-

e4:b3:18:7c:30:58 Received 802.11i 802.1X key management suite, enabling dot1x Authentication

11w Capable

*apfMsConnTask_1: Nov 24 04:30:44.318: e4:b3:18:7c:30:58 Received RSN IE with 1 PMKIDs from mobile e4:b
*apfMsConnTask_1: Nov 24 04:30:44.319: Received PMKID: (16)
*apfMsConnTask_1: Nov 24 04:30:44.319: e4:b3:18:7c:30:58 Searching for PMKID in MSCB PMKID cache for mo
*apfMsConnTask_1: Nov 24 04:30:44.319: e4:b3:18:7c:30:58 No valid PMKID found in the MSCB PMKID cache f
*apfMsConnTask_1: Nov 24 04:30:44.319: e4:b3:18:7c:30:58 0.0.0.0 START (0) Initializing policy
*apfMsConnTask_1: Nov 24 04:30:44.319:

e4:b3:18:7c:30:58 0.0.0.0 START (0) Change state to AUTHCHECK (2) last state START (0)

*apfMsConnTask_1: Nov 24 04:30:44.319:

e4:b3:18:7c:30:58 0.0.0.0 AUTHCHECK (2) Change state to 8021X_REQD (3) last state AUTHCHECK (2)

*apfMsConnTask_1: Nov 24 04:30:44.319: e4:b3:18:7c:30:58 0.0.0.0 8021X_REQD (3) Plumbed mobile LWAPP ru
*apfMsConnTask_1: Nov 24 04:30:44.319: e4:b3:18:7c:30:58 apfMsAssoStateInc
*apfMsConnTask_1: Nov 24 04:30:44.319: e4:b3:18:7c:30:58 apfPemAddUser2 (apf_policy.c:437) Changing sta
*apfMsConnTask_1: Nov 24 04:30:44.319: e4:b3:18:7c:30:58 apfPemAddUser2:session timeout forstation e4:b
*apfMsConnTask_1: Nov 24 04:30:44.319: e4:b3:18:7c:30:58 Stopping deletion of Mobile Station: (callerId
*apfMsConnTask_1: Nov 24 04:30:44.319: e4:b3:18:7c:30:58 Func: apfPemAddUser2, Ms Timeout = 0, Session
*apfMsConnTask_1: Nov 24 04:30:44.320: e4:b3:18:7c:30:58 Sending Assoc Response to station on BSSID 00:
*spamApTask2: Nov 24 04:30:44.323: e4:b3:18:7c:30:58 Successful transmission of LWAPP Add-Mobile to AP
*spamApTask2: Nov 24 04:30:44.325: e4:b3:18:7c:30:58 Received ADD_MOBILE ack - Initiating 1x to STA e4:
*spamApTask2: Nov 24 04:30:44.325: e4:b3:18:7c:30:58

Sent dot1x auth initiate message for mobile e4:b3:18:7c:30:58

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.326: e4:b3:18:7c:30:58 reauth_sm state transition 0 ---> 1 for mob
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.326: e4:b3:18:7c:30:58 EAP-PARAM Debug - eap-params for Wlan-Id :2
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.326: e4:b3:18:7c:30:58 Disable re-auth, use PMK lifetime.
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.326: e4:b3:18:7c:30:58 Station e4:b3:18:7c:30:58 setting dot1x rea
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.326: e4:b3:18:7c:30:58 Stopping reauth timeout for e4:b3:18:7c:30:
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.326: e4:b3:18:7c:30:58 dot1x - moving mobile e4:b3:18:7c:30:58 int
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.326:

e4:b3:18:7c:30:58 Sending EAP-Request/Identity to mobile e4:b3:18:7c:30:58 (EAP Id 1)

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.380: e4:b3:18:7c:30:58 Received EAPOL EAPPKT from mobile e4:b3:18:
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.380: e4:b3:18:7c:30:58 Received Identity Response (count=1) from m
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.380: e4:b3:18:7c:30:58 Resetting reauth count 1 to 0 for mobile e4
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.380: e4:b3:18:7c:30:58 EAP State update from Connecting to Authent
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.380: e4:b3:18:7c:30:58 dot1x - moving mobile e4:b3:18:7c:30:58 int
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.380: e4:b3:18:7c:30:58 Entering Backend Auth Response state for mo
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.380: e4:b3:18:7c:30:58 Created Acct-Session-ID (58366cf4/e4:b3:18:
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.386: e4:b3:18:7c:30:58 Processing Access-Challenge for mobile e4:b
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.387: e4:b3:18:7c:30:58 Entering Backend Auth Req state (id=215) fo
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.387: e4:b3:18:7c:30:58 WARNING: updated EAP-Identifier 1 ==> 215
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.387: e4:b3:18:7c:30:58 Sending EAP Request from AAA to mobile e4:b
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.387: e4:b3:18:7c:30:58 Allocating EAP Pkt for retransmission to mo
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.390: e4:b3:18:7c:30:58 Received EAPOL EAPPKT from mobile e4:b3:18:
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.390: e4:b3:18:7c:30:58 Received EAP Response from mobile e4:b3:18:
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.390: e4:b3:18:7c:30:58 Resetting reauth count 0 to 0 for mobile e4
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.390: e4:b3:18:7c:30:58 Entering Backend Auth Response state for mo
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.393: e4:b3:18:7c:30:58 Processing Access-Challenge for mobile e4:b
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.393: e4:b3:18:7c:30:58 Entering Backend Auth Req state (id=216) fo
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.393: e4:b3:18:7c:30:58 Sending EAP Request from AAA to mobile e4:b
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.393: e4:b3:18:7c:30:58 Reusing allocated memory for EAP Pkt for r

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.530:

e4:b3:18:7c:30:58 Processing Access-Accept for mobile e4:b3:18:7c:30:58

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.530: e4:b3:18:7c:30:58 Resetting web IPv4 ac1 from 255 to 255

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.530: e4:b3:18:7c:30:58 Resetting web IPv4 Flex ac1 from 65535 to 6

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.530:

e4:b3:18:7c:30:58 Username entry (user1) created for mobile, length = 253

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.530:

e4:b3:18:7c:30:58 Found an interface name:'vlan2404' corresponds to interface name received: vlan2404

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.530: e4:b3:18:7c:30:58 override for default ap group, marking intg

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.530: e4:b3:18:7c:30:58 Applying Interface(management) policy on Mo

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.530: e4:b3:18:7c:30:58 Re-applying interface policy for client

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 apfApplyWlanPolicy: Apply WLAN Policy over

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531:

e4:b3:18:7c:30:58 Inserting AAA Override struct for mobile

MAC: e4:b3:18:7c:30:58, source 4

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 Applying override policy from source Overri

*Dot1x_NW_MsgTask_0: Nov 24

04:30:44.531: e4:b3:18:7c:30:58 Found an interface name:'vlan2404' corresponds to interface name receive

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 Applying Interface(vlan2404) policy on Mobi

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 Re-applying interface policy for client

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 Setting re-auth timeout to 0 seconds, got f

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 Station e4:b3:18:7c:30:58 setting dot1x rea

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 Stopping reauth timeout for e4:b3:18:7c:30:

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 Creating a PKC PMKID Cache entry for stati

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 Resetting MSCB PMK Cache Entry 0 for stati

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 Adding BSSID 00:c8:8b:26:2c:d1 to PMKID cac

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: New PMKID: (16)

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: [0000] cc 3a 3d 26 80 17 8b f1 2d c5 cd fd a0 8a c4 39

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 unsetting PmkIdValidatedByAp

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 Updating AAA Overrides from local for stati

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 Adding Audit session ID payload in Mobility

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 0 PMK-update groupcast messages sent

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 PMK sent to mobility group

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 Disabling re-auth since PMK lifetime can ta

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.531: e4:b3:18:7c:30:58 Sending EAP-Success to mobile e4:b3:18:7c:3

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.532: e4:b3:18:7c:30:58 Freeing AAACB from Dot1xCB as AAA auth is d

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.532: e4:b3:18:7c:30:58 key Desc Version FT - 0

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.532: e4:b3:18:7c:30:58 Found an cache entry for BSSID 00:c8:8b:26:

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.532: Including PMKID in M1 (16)

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.532: [0000] cc 3a 3d 26 80 17 8b f1 2d c5 cd fd a0 8a c4 39

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.532: M1 - Key Data: (22)

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.532: [0000] dd 14 00 0f ac 04 cc 3a 3d 26 80 17 8b f1 2d c5

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.532: [0016] cd fd a0 8a c4 39

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.532:

e4:b3:18:7c:30:58 Starting key exchange to mobile e4:b3:18:7c:30:58, data packets will be dropped

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.532:

e4:b3:18:7c:30:58 Sending EAPOL-Key Message to mobile e4:b3:18:7c:30:58

state INITPMK (message 1), replay counter 00.00.00.00.00.00.00

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.532: e4:b3:18:7c:30:58 Reusing allocated memory for EAP Pkt for r

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.532: e4:b3:18:7c:30:58 Entering Backend Auth Success state (id=223

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.532: e4:b3:18:7c:30:58 Received Auth Success while in Authentication
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.532: e4:b3:18:7c:30:58 dot1x - moving mobile e4:b3:18:7c:30:58 into
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.547: e4:b3:18:7c:30:58 Received EAPOL-Key from mobile e4:b3:18:7c:30:58
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.547: e4:b3:18:7c:30:58 Ignoring invalid EAPOL version (1) in EAPOL
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.547: e4:b3:18:7c:30:58 key Desc Version FT - 0
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.547:

e4:b3:18:7c:30:58 Received EAPOL-key in PTK_START state (message 2) from mobile

e4:b3:18:7c:30:58

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.548: e4:b3:18:7c:30:58 Successfully computed PTK from PMK!!!
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.548: e4:b3:18:7c:30:58 Received valid MIC in EAPOL Key Message M2!
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.548: e4:b3:18:7c:30:58 Not Flex client. Do not distribute PMK Key
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.548: e4:b3:18:7c:30:58 Stopping retransmission timer for mobile e4:b3:18:7c:30:58
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.548: e4:b3:18:7c:30:58 key Desc Version FT - 0
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.548: e4:b3:18:7c:30:58 Sending EAPOL-Key Message to mobile e4:b3:18:7c:30:58
state PTKINITNEGOTIATING (message 3), replay counter 00.00.00.00.00.00.01
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.548: e4:b3:18:7c:30:58 Reusing allocated memory for EAP Pkt for mobile e4:b3:18:7c:30:58
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.555: e4:b3:18:7c:30:58 Received EAPOL-Key from mobile e4:b3:18:7c:30:58
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.555: e4:b3:18:7c:30:58 Ignoring invalid EAPOL version (1) in EAPOL
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.555: e4:b3:18:7c:30:58 key Desc Version FT - 0
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.555:

e4:b3:18:7c:30:58 Received EAPOL-key in PTKINITNEGOTIATING state (message 4)

from mobile e4:b3:18:7c:30:58

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.555: e4:b3:18:7c:30:58 Stopping retransmission timer for mobile e4:b3:18:7c:30:58
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.555: e4:b3:18:7c:30:58 Freeing EAP Retransmit Buffer for mobile e4:b3:18:7c:30:58
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.555: e4:b3:18:7c:30:58 apfMs1xStateInc
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.555: e4:b3:18:7c:30:58 apfMsPeapSimReqCntInc
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.555: e4:b3:18:7c:30:58 apfMsPeapSimReqSuccessCntInc
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.555:

e4:b3:18:7c:30:58 0.0.0.0 8021X_REQD (3) Change state to L2AUTHCOMPLETE (4) last state 8021X_REQD (3)

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.555: e4:b3:18:7c:30:58 Mobility query, PEM State: L2AUTHCOMPLETE
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.555: e4:b3:18:7c:30:58 Building Mobile Announce :
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.556: e4:b3:18:7c:30:58 Building Client Payload:
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.556: e4:b3:18:7c:30:58 Client Ip: 0.0.0.0
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.556: e4:b3:18:7c:30:58 Client Vlan Ip: 172.16.0.134, Vlan mask
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.556: e4:b3:18:7c:30:58 Client Vap Security: 16384
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.556: e4:b3:18:7c:30:58 Virtual Ip: 10.10.10.10
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.556: e4:b3:18:7c:30:58 ssid: ise-ssid
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.556: e4:b3:18:7c:30:58 Building VlanIpPayload.
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.556: e4:b3:18:7c:30:58 Not Using WMM Compliance code qosCap 00
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.556: e4:b3:18:7c:30:58 0.0.0.0 L2AUTHCOMPLETE (4) Plumbed mobile L2AUTHCOMPLETE (4)
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.556:

e4:b3:18:7c:30:58 0.0.0.0 L2AUTHCOMPLETE (4) Change state to DHCP_REQD (7) last state L2AUTHCOMPLETE (4)

*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.556: e4:b3:18:7c:30:58 0.0.0.0 DHCP_REQD (7) pemAdvanceState2 6677
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.556: e4:b3:18:7c:30:58 0.0.0.0 DHCP_REQD (7) Adding Fast Path rule
type = Airespace AP - Learn IP address
on AP 00:c8:8b:26:2c:d0, slot 0, interface = 1, QOS = 0
IPv4 ACL ID = 255, IPv4
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.556: e4:b3:18:7c:30:58 0.0.0.0 DHCP_REQD (7) Fast Path rule (contd)
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.556: e4:b3:18:7c:30:58 0.0.0.0 DHCP_REQD (7) Fast Path rule (contd)
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.556: e4:b3:18:7c:30:58 0.0.0.0 DHCP_REQD (7) Successfully plumbed mobile L2AUTHCOMPLETE (4)
*Dot1x_NW_MsgTask_0: Nov 24 04:30:44.556: e4:b3:18:7c:30:58 Successfully Plumbed PTK session Keys for mobile e4:b3:18:7c:30:58
*spamApTask2: Nov 24 04:30:44.556: e4:b3:18:7c:30:58 Successful transmission of LWAPP Add-Mobile to AP 00:c8:8b:26:2c:d0
*pemReceiveTask: Nov 24 04:30:44.557: e4:b3:18:7c:30:58 0.0.0.0 Added NPU entry of type 9, dtlFlags 0x0
*apfReceiveTask: Nov 24 04:30:44.557: e4:b3:18:7c:30:58 0.0.0.0 DHCP_REQD (7) mobility role update request received
Peer = 0.0.0.0, Old Anchor = 0.0.0.0, New Anchor = 172.16.0.3
*apfReceiveTask: Nov 24 04:30:44.557: e4:b3:18:7c:30:58 0.0.0.0 DHCP_REQD (7) State Update from Mobility

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*apfReceiveTask: Nov 24 04:30:44.557: e4:b3:18:7c:30:58 0.0.0.0 DHCP_REQD (7) pemAdvanceState2 6315, Ad
*apfReceiveTask: Nov 24 04:30:44.557: e4:b3:18:7c:30:58 0.0.0.0 DHCP_REQD (7) Replacing Fast Path rule
  IPv4 ACL ID = 255,
*apfReceiveTask: Nov 24 04:30:44.557: e4:b3:18:7c:30:58 0.0.0.0 DHCP_REQD (7) Fast Path rule (contd...)
*apfReceiveTask: Nov 24 04:30:44.557: e4:b3:18:7c:30:58 0.0.0.0 DHCP_REQD (7) Fast Path rule (contd...)
*apfReceiveTask: Nov 24 04:30:44.557: e4:b3:18:7c:30:58 0.0.0.0 DHCP_REQD (7) Successfully plumbed mobi
*pemReceiveTask: Nov 24 04:30:44.557: e4:b3:18:7c:30:58 Sent an XID frame
*dtlArpTask: Nov 24 04:30:47.932: e4:b3:18:7c:30:58 Static IP client associated to interface vlan2404 w
*dtlArpTask: Nov 24 04:30:47.933: e4:b3:18:7c:30:58 apfMsRunStateInc
*dtlArpTask: Nov 24 04:30:47.933:

e4:b3:18:7c:30:58 172.16.0.151 DHCP_REQD (7) Change state to RUN (20)

last state DHCP_REQD (7)

```

若要輕鬆讀取調試客戶端輸出，請使用無線調試分析器工具：

[無線偵錯分析器](#)

ISE上的身份驗證過程

導覽至Operations > RADIUS > Live Logs，以檢視分配給使用者的身份驗證策略、授權策略和授權配置檔案。

有關詳細資訊，請按一下Details以檢視更詳細的身份驗證過程，如圖所示。

Time	Sta...	Details	Ide...	Endpoint ID	Endpoint ...	Authentication Policy	Authorization Policy	Authorization Profiles
No...	i	🔍	user1	08:74:02:77:13:45	Apple-Device	Default >> Rule name >> Default	Default >> NameAuthZrule	PermitAccessVLAN2404

疑難排解

目前尚無特定資訊可用於排解此組態的疑難問題。

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）。