

使用ISE 3.3配置Linux VPN安全評估

目錄

[簡介](#)

[必要條件](#)

[需求](#)

[採用元件](#)

[設定](#)

[網路圖表](#)

[FMC/FTD上的組態](#)

[ISE上的配置](#)

[Ubuntu上的配置](#)

[驗證](#)

[疑難排解](#)

[相關資訊](#)

簡介

本文檔介紹如何使用身份服務引擎(ISE)和Firepower威脅防禦(FTD)配置Linux VPN狀態。

必要條件

需求

思科建議您瞭解以下主題：

- 思科安全使用者端
- Firepower威脅防禦(FTD)上的遠端訪問VPN
- 身分識別服務引擎 (ISE)

採用元件

本檔案中的資訊是根據以下軟體版本：

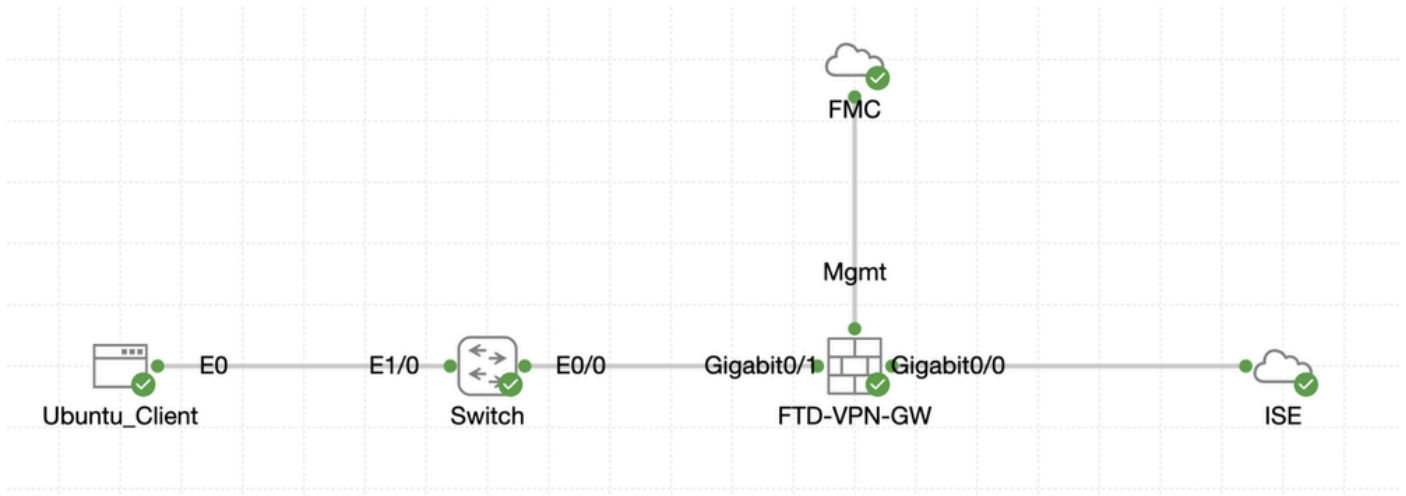
- 烏班圖22.04
- 思科安全使用者端5.1.3.62

- Cisco Firepower威脅防禦(FTD) 7.4.1
- 思科Firepower管理中心(FMC) 7.4.1
- 思科身分辨識服務引擎(ISE) 3.3

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。如果您的網路運作中，請確保您瞭解任何指令可能造成的影響。

設定

網路圖表



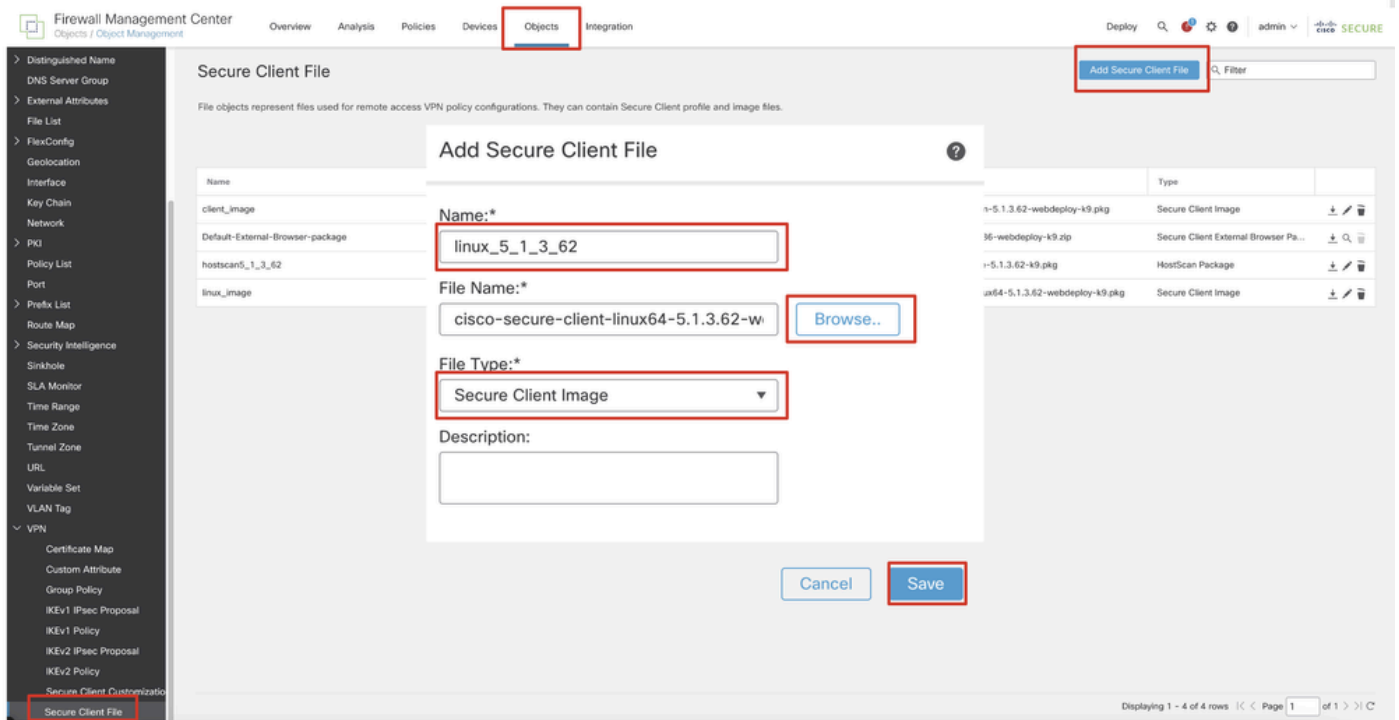
拓撲

FMC/FTD上的組態

步驟 1. 已成功配置客戶端、FTD、FMC和ISE之間的連線。因為enroll.cisco.com用於進行重定向探查的終端(有關詳細資訊，請參閱終端安全評估流程CCO 文檔[進階版](#)和[進階版2.2的ISE終端安全評估樣式比較](#))。確定已正確設定FTD上至enroll.cisco.com的流量路由。

步驟 2. 從[Cisco軟體下載](#) cisco-secure-client-linux64-5.1.3.62-webdeploy-k9.pkg 下載軟體套件名稱，並確認下載檔案的md5校驗和與Cisco軟體下載頁相同，以確保下載後檔案完好。

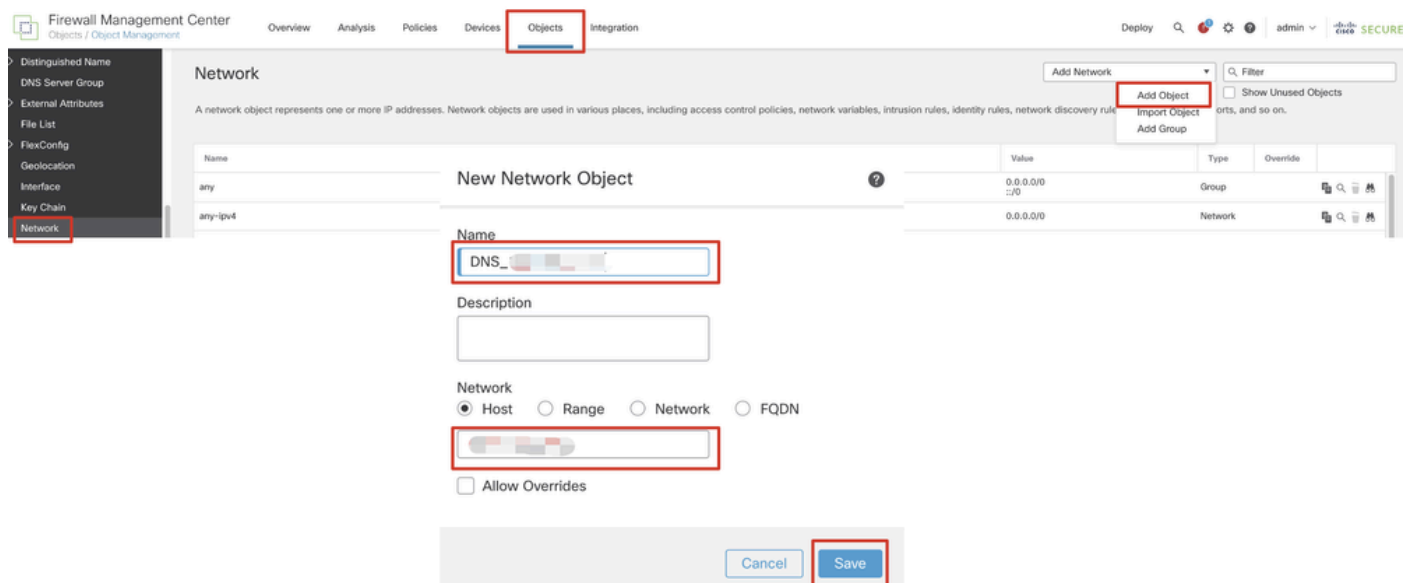
步驟 3. 導航到Objects > Object Management > VPN > Secure Client File。點選Add Secure Client File，提供名稱，瀏覽File Name以選擇cisco-secure-client-linux64-5.1.3.62-webdeploy-k9.pkg，選擇File Type下拉選單中的Secure Client Image。然後按一下Save。



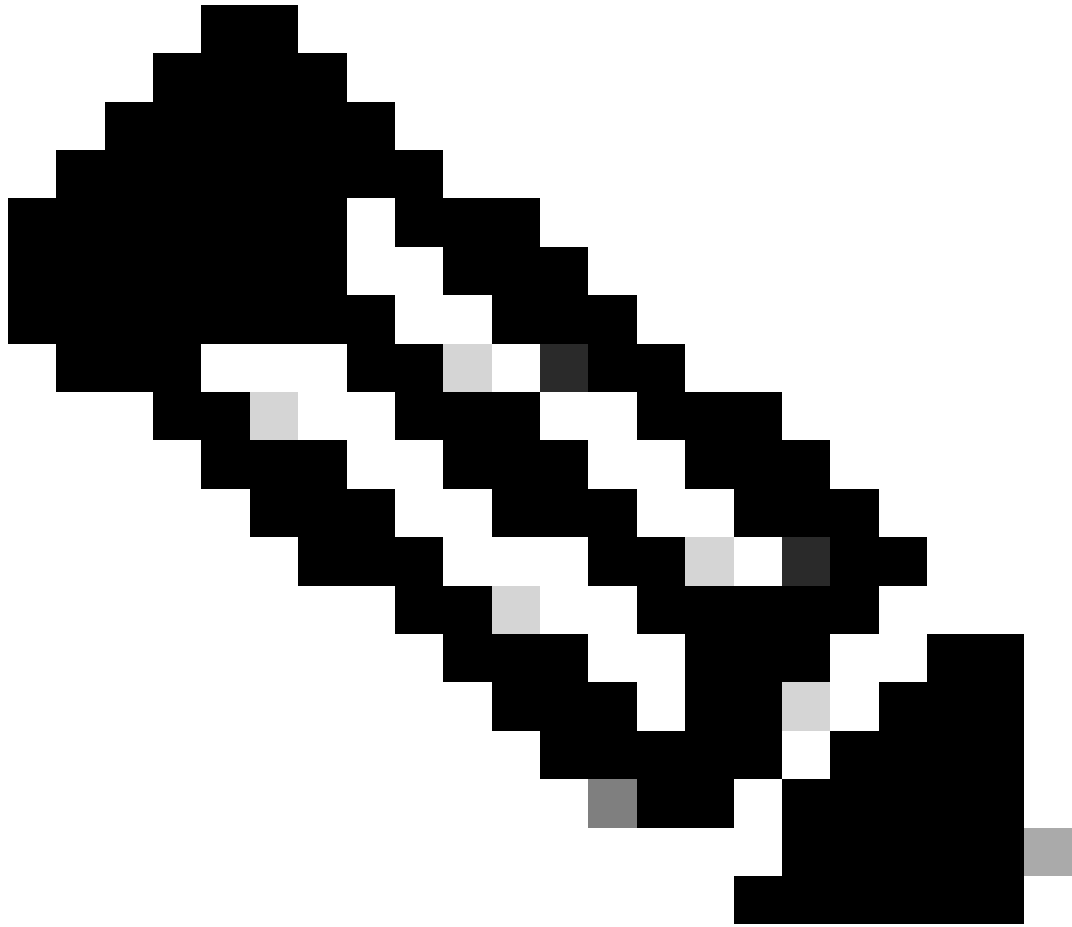
FMC_Upload_Secure_Client_Image

步驟 4. 導航到Objects > Object Management > Network。

步驟 4.1. 建立DNS伺服器的物件。按一下Add Object，提供名稱和可用的DNS IP地址。按一下Save。

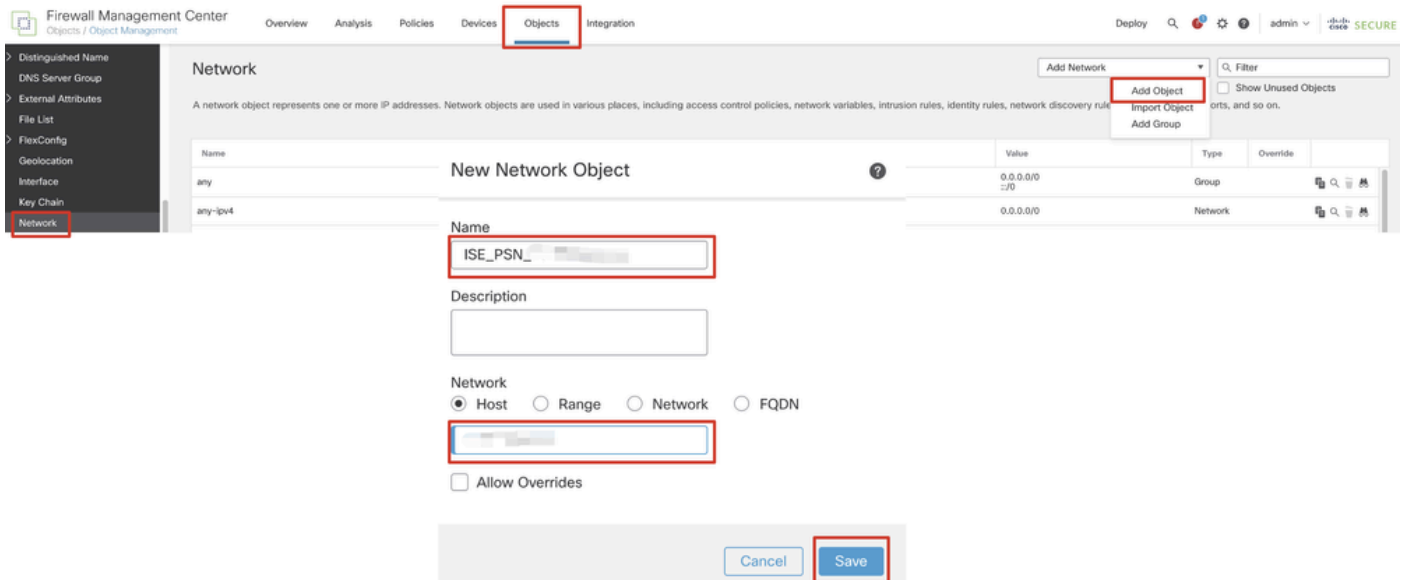


FMC_Add_Object_DNS



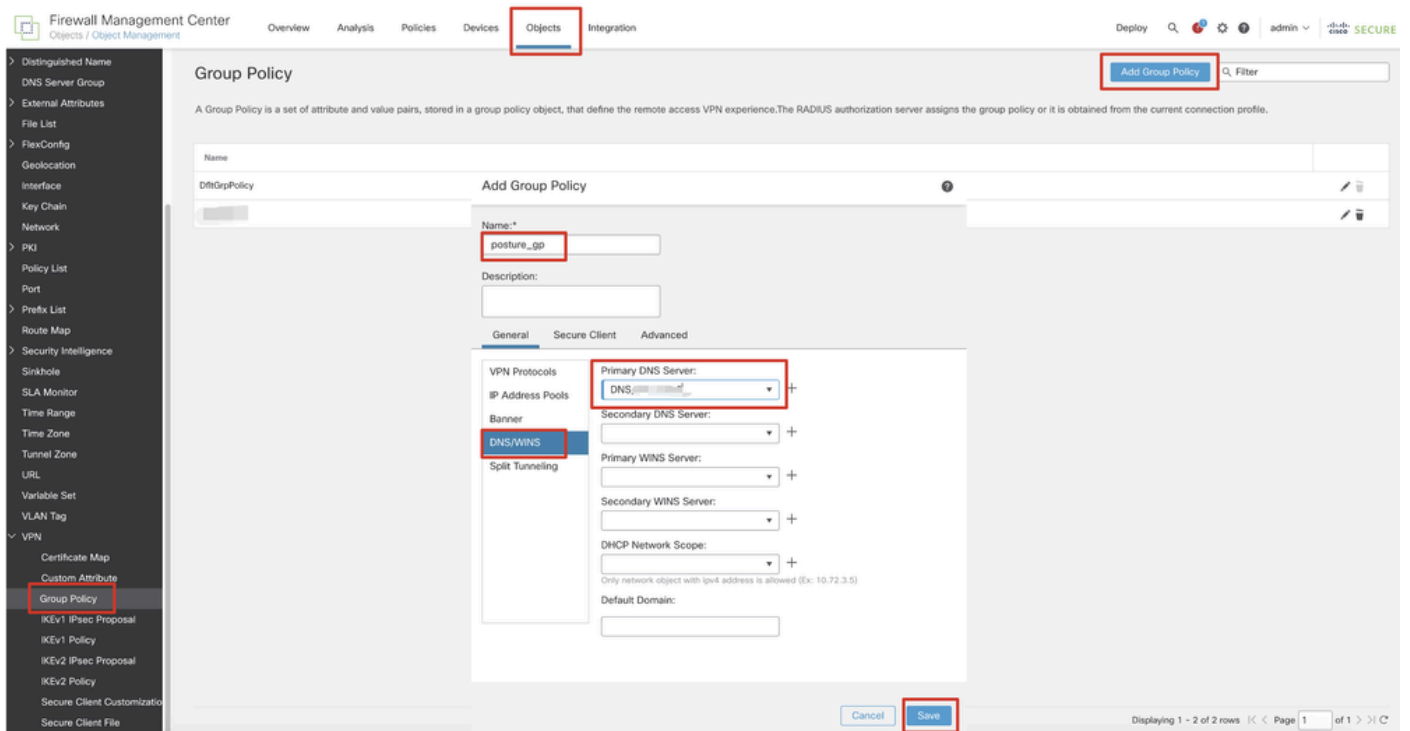
注意：此處配置的DNS伺服器將用於VPN使用者。

步驟 4.2.為ISE PSN建立對象。按一下Add Object，提供名稱和可用的ISE PSN IP地址。按一下Save。



FMC_Add_Object_ISE

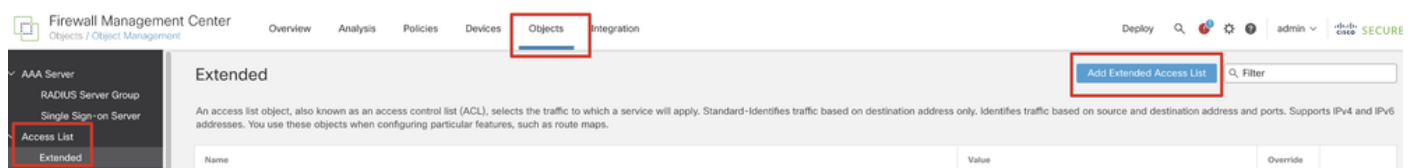
步驟 5. 導航到 Objects > Object Management > VPN > Group Policy。按一下 Add Group Policy。按一下 DNS/WINS，在 Primary DNS Server 中選擇 DNS 伺服器的對象。然後按一下 Save。



FMC_Add_Group_Policy

注意：確保VPN組策略中使用的DNS伺服器可以解析ISE客戶端調配門戶FQDN和enroll.cisco.com。

步驟 6. 導航到Objects > Object Management > Access List > Extended。按一下Add Extended Access List。



FMC_Add_Redirect_ACL

步驟 6.1. 提供重定向ACL的名稱。此名稱必須與ISE授權配置檔案中的名稱相同。按一下Add。

New Extended Access List Object

Name
redirect

Entries (0)

Add

Sequence	Action	Source	Source Port	Destination	Destination Port	Application	Users	SGT
No records to display								

Allow Overrides

Cancel Save

FMC_Add_Redirect_ACL_Part_1

步驟 6.2. 阻止DNS流量、到ISE PSN IP地址的流量和補救伺服器將其排除在重定向之外。允許其餘的流量。這會觸發重新導向。按一下Save。

Add Extended Access List Entry

Action:
Block

Logging:
Default

Log Level:
Informational

Log Interval:
300 Sec.

Network Port Application Users Security Group Tag

Available Networks

Search by name or value

- IPv4-Private-192.168.0.0-16
- IPv4-Private-All-RFC1918
- IPv6-IPv4-Mapped
- IPv6-Link-Local
- IPv6-Private-Unique-Local-Addresses
- IPv6-to-IPv4-Relay-Anycast
- ISE_PSN_
- rtp_ise

Add to Source

Add to Destination

Source Networks (0)

any

Enter an IP address Add

Destination Networks (1)

ISE_PSN_

Enter an IP address Add

Cancel Add

FMC_Add_Redirect_ACL_Part_2

Name
redirect

Entries (4)

Add

Sequence	Action	Source	Source Port	Destination	Destination Port	Application	Users	SGT	
1	Block	any-ipv4	Any	ISE_PSN	Any	Any	Any	Any	
2	Block	Any	Any	Any	DNS_over_TCP DNS_over_UDP	Any	Any	Any	
3	Block	Any	Any	FTP	Any	Any	Any	Any	
4	Allow	any-ipv4	Any	any-ipv4	Any	Any	Any	Any	

Allow Overrides

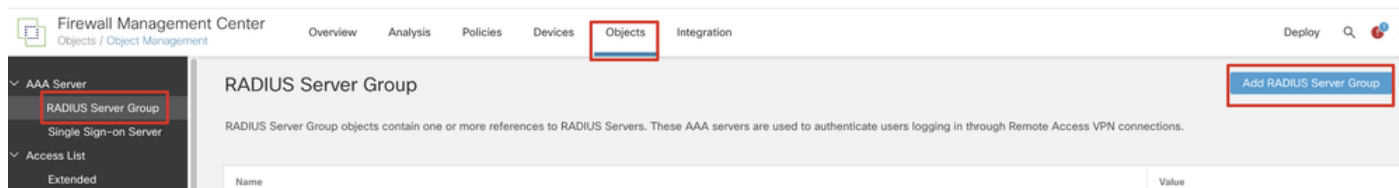
Cancel

Save

FMC_Add_Redirect_ACL_Part_3

注意：此重定向ACL示例中的目标FTP用作补救服务器示例。

步驟 7. 導航到Objects > Object Management > RADIUS Server Group。按一下Add RADIUS Server Group。



FMC_Add_New_Radius_Server_Group

步驟 7.1. 提供名稱、檢查Enable authorize only、檢查Enable interim account update、檢查Enable dynamic authorization。

Add RADIUS Server Group



Name:*

rtpise

Description:

Group Accounting Mode:

Single



Retry Interval:* (1-10) Seconds

10

Realms:

Enable authorize only

Enable interim account update

Interval:* (1-120) hours

24

Enable dynamic authorization

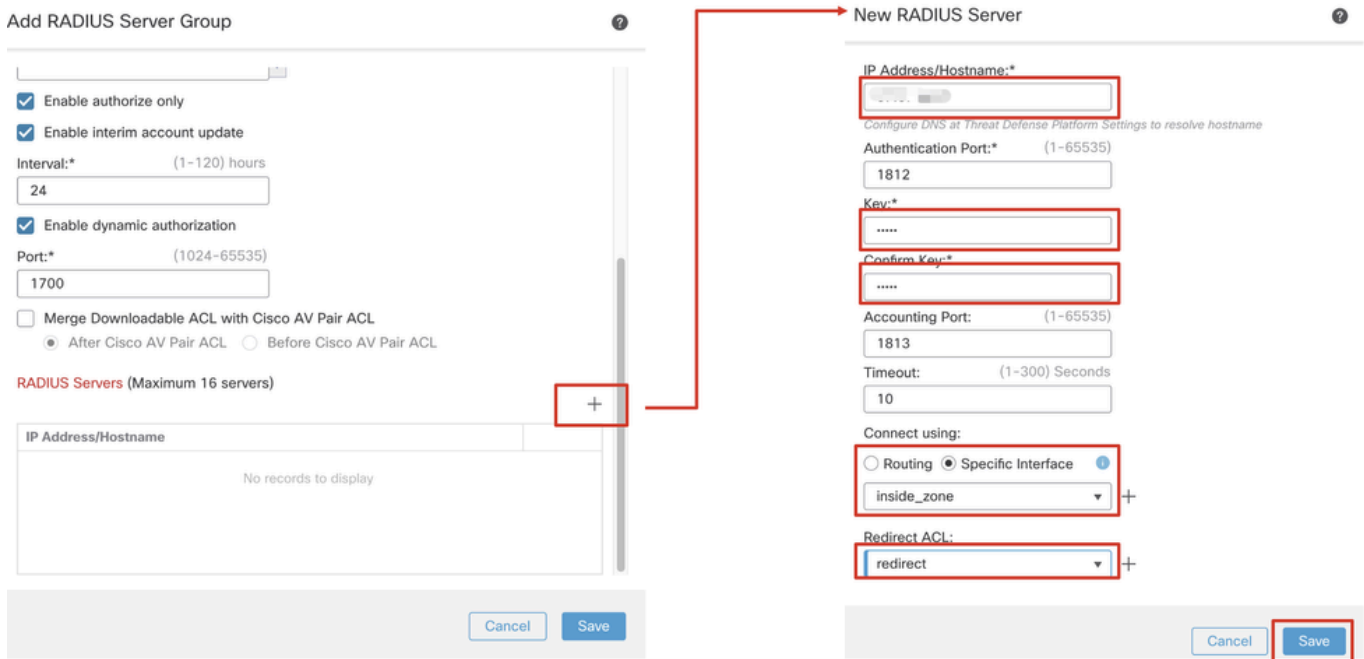
Port:* (1024-65535)

Cancel

Save

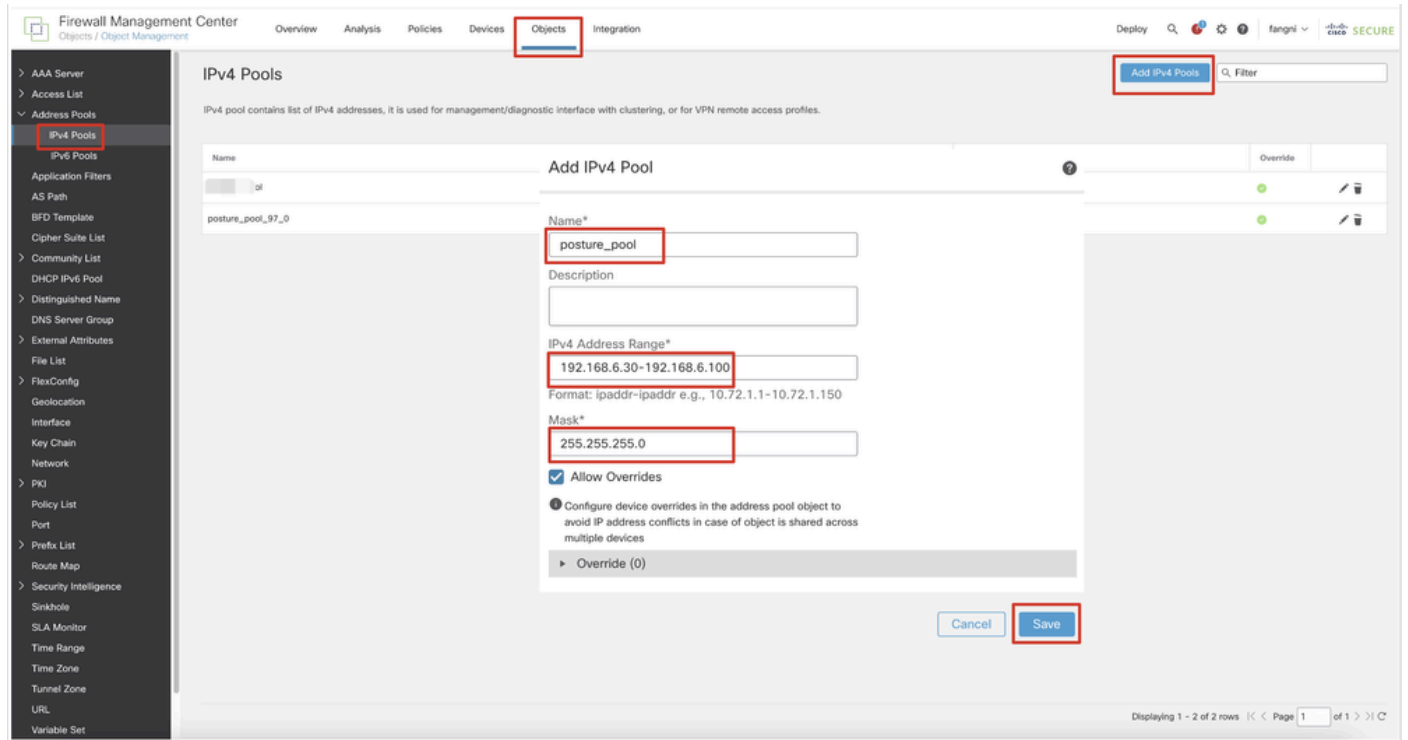
FMC_Add_New_Radius_Server_Group_Part_1

步驟 7.2. 按一下Plus 圖示增加新的RADIUS伺服器。提供ISE PSNIP Address/Hostname, Key。選擇specific interface進行連線。選擇 Redirect ACL。然後按一下Save儲存新的RADIUS伺服器。然後再次按一下Save , 儲存新的RADIUS伺服器組。



FMC_Add_New_Radius_Server_Group_Part_2

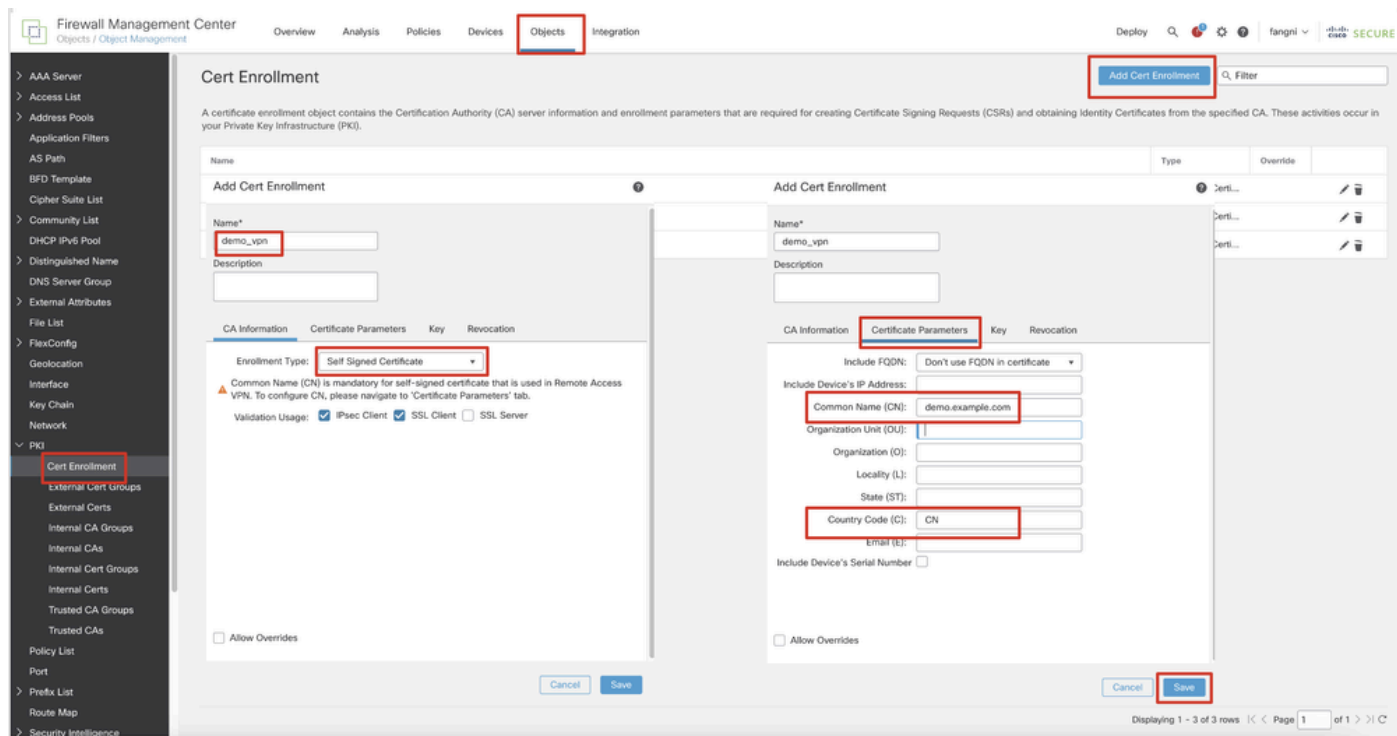
步驟 8. 導航到Objects > Object Management > Address Pools > IPv4 Pools。按一下Add IPv4 Pools並提供Name, IPv4 Address Range和Mask。然後按一下Save。



FMC_Add_New_Pool

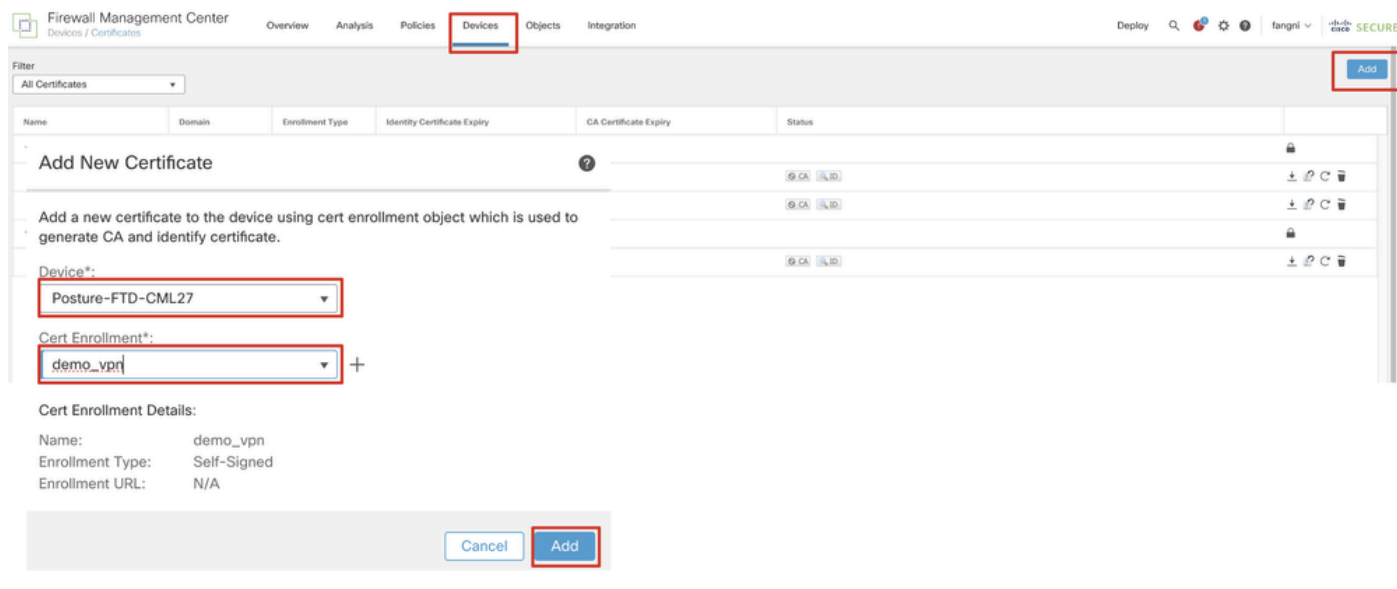
步驟 9. 導航到Certificate Objects > Object Management > PKI > Cert Enrollment。按一下Add Cert Enrollment , 提供一個名稱 , 然後在

Enrollment Type中選擇Self Signed Certificate。按一下Certificate Parameters頁籤，然後提供Common Name和Country Code。然後按一下Save。



FMC_Add_New_Cert_Enroll

步驟 10. 導航到Devices > Certificates。點選Add，在Device下選擇FTD名稱，在Cert Enrollment下選擇以前配置的註冊。按一下Add。



FMC_Add_New_Cert_To_FTD

步驟 11. 導航到Devices > VPN > Remote Access。按一下Add。

步驟 11.1. 提供名稱，並新增FTD至Selected Devices。按一下Next。

Firewall Management Center
Devices / VPN / Setup Wizard

Overview Analysis Policies **Devices** Objects Integration

Deploy 🔍 ⚙️ 👤 admin 🔒 **SECURE**

Remote Access VPN Policy Wizard

1 Policy Assignment 2 Connection Profile 3 **Secure Client** 4 Access & Certificate 5 Summary

Targeted Devices and Protocols

This wizard will guide you through the required minimal steps to configure the Remote Access VPN policy with a new user-defined connection profile.

Name:* posture_vpn

Description:

VPN Protocols:

- SSL
- IPsec-IKEv2

Targeted Devices:

Available Devices

Search

Posture-FTD-CML27

VPN-FTD-Posture-CML

Add

Selected Devices

Posture-FTD-CML27

Before You Start

Before you start, ensure the following configuration elements to be in place to complete Remote Access VPN Policy.

Authentication Server

Configure LOCAL or Realm or RADIUS Server Group or SSO to authenticate VPN clients.

Secure Client Package

Make sure you have Secure Client package for VPN Client downloaded or you have the relevant Cisco credentials to download it during the wizard.

Device Interface

Interfaces should be already configured on targeted devices so that they can be used as a security zone or interface group to enable VPN access.

Cancel Back **Next**

FMC_New_RAVPN_Wizard_1

步驟 11.2. 在Authentication Server, Authorization Server, Accounting Server中選擇先前配置的radius伺服器組。向下捲動頁面。

Firewall Management Center
Devices / VPN / Setup Wizard

Overview Analysis Policies **Devices** Objects Integration

Deploy 🔍 ⚙️ 👤 admin 🔒 **SECURE**

Remote Access VPN Policy Wizard

1 Policy Assignment 2 **Connection Profile** 3 Secure Client 4 Access & Certificate 5 Summary

Remote User → Secure Client → Internet → Outside → VPN Device → Inside → Corporate Resources

AAA

Connection Profile:

Connection Profiles specify the tunnel group policies for a VPN connection. These policies pertain to creating the tunnel itself, how AAA is accomplished and how addresses are assigned. They also include user attributes, which are defined in group policies.

Connection Profile Name:* posture_vpn

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

Authentication, Authorization & Accounting (AAA):

Specify the method of authentication (AAA, certificates or both), and the AAA servers that will be used for VPN connections.

Authentication Method: AAA Only

Authentication Server:* rtplse

(LOCAL or Realm or Radius)

Fallback to LOCAL Authentication

Authorization Server: rtplse

(Realm or Radius)

Accounting Server: rtplse

(Radius)

Client Address Assignment:

Client IP address can be obtained from AAA server, DHCP server and IP address pool. (Use multiple entries as

Cancel Back **Next**

FMC_New_RAVPN_Wizard_2

步驟 11.3. 在IPv4 Address Pools中選擇以前配置的池名稱。在Group Policy中選擇以前配置的組策略。按一下Next。

Firewall Management Center
Devices / VPN / Setup Wizard

Overview Analysis Policies **Devices** Objects Integration

Deploy 🔍 ⚙️ 👤 admin 🔒 **SECURE**

Remote Access VPN Policy Wizard

1 Policy Assignment — 2 Connection Profile — 3 Secure Client — 4 Access & Certificate — 5 Summary

(Realm or RADIUS)

Accounting Server: +
(RADIUS)

Client Address Assignment:

Client IP address can be assigned from AAA server, DHCP server and IP address pools. When multiple options are selected, IP address assignment is tried in the order of AAA server, DHCP server and IP address pool.

Use AAA Server (Realm or RADIUS only) ●
 Use DHCP Servers
 Use IP Address Pools

IPv4 Address Pools: ↗
 IPv6 Address Pools: ↗

Group Policy:

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.

Group Policy*: +
Edit Group Policy

Cancel Back **Next**

FMC_New_RAVPN_Wizard_3

步驟 11.4.選中Linux映像的覈取方塊。按一下Next。

Firewall Management Center
Devices / VPN / Setup Wizard

Overview Analysis Policies **Devices** Objects Integration

Deploy 🔍 ⚙️ 👤 admin 🔒 **SECURE**

Remote Access VPN Policy Wizard

1 Policy Assignment — 2 Connection Profile — 3 Secure Client — 4 Access & Certificate — 5 Summary

Secure Client Image

The VPN gateway can automatically download the latest Secure Client package to the client device when the VPN connection is initiated. Minimize connection setup time by choosing the appropriate OS for the selected package.

Download Secure Client packages from [Cisco Software Download Center](#).

Secure Client File Object Name	Secure Client Package Name	Operating System
<input type="checkbox"/> client_image	cisco-secure-client-wln-5.1.3.62-webdepl...	Windows
<input checked="" type="checkbox"/> linux_5_1_3_62	cisco-secure-client-linux64-5.1.3.62-webd...	Linux

Show Re-order buttons +

Cancel Back **Next**

FMC_New_RAVPN_Wizard_4

步驟 11.5.選擇VPN介面的介面。選取在步驟9中註冊FTD的憑證註冊。按一下Next。

Firewall Management Center
Devices / VPN / Setup Wizard

Overview Analysis Policies **Devices** Objects Integration

Deploy 🔍 ⚙️ 👤 admin v **SECURE**

Remote Access VPN Policy Wizard

1 Policy Assignment 2 Connection Profile 3 Secure Client 4 **Access & Certificate** 5 Summary

Network Interface for Incoming VPN Access
Select or create an Interface Group or a Security Zone that contains the network interfaces users will access for VPN connections.

Interface group/Security Zone:

Enable DTLS on member interfaces

⚠️ All the devices must have interfaces as part of the Interface Group/Security Zone selected.

Device Certificates
Device certificate (also called identity certificate) identifies the VPN gateway to the remote access clients. Select a certificate which is used to authenticate the VPN gateway.

Certificate Enrollment:

Enroll the selected certificate object on the target devices

Access Control for VPN Traffic
All decrypted traffic in the VPN tunnel is subjected to the Access Control Policy by default. Select this option to bypass decrypted traffic from the Access Control Policy.

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

Cancel Back **Next**

FMC_New_RAVPN_Wizard_5

步驟 11.6.在摘要頁面上重複確認相關資訊。如果一切正常，請按一下Finish。如果需要修改任何內容，請按一下Back。

Firewall Management Center
Devices / VPN / Setup Wizard

Overview Analysis Policies **Devices** Objects Integration

Deploy 🔍 ⚙️ 👤 admin v **SECURE**

Remote Access VPN Policy Wizard

1 Policy Assignment 2 Connection Profile 3 Secure Client 4 Access & Certificate 5 **Summary**

Remote Access VPN Policy Configuration
Firewall Management Center will configure an RA VPN Policy with the following settings

Name:	posture_vpn
Device Targets:	Posture-FTD-CM/27
Connection Profile:	posture_vpn
Connection Alias:	posture_vpn
AAA:	
Authentication Method:	AAA Only
Authentication Server:	rpise (RADIUS)
Authorization Server:	rpise
Accounting Server:	rpise
Address Assignment:	
Address from AAA:	-
DHCP Servers:	-
Address Pools (IPv4):	posture_pool
Address Pools (IPv6):	-
Group Policy:	posture_gp
Secure Client Images:	linux_5_1_3_62
Interface Objects:	outside_zone
Device Certificates:	demo_vpn

Device Identity Certificate Enrollment
Certificate enrollment object 'demo_vpn' is not installed on one or more targeted

Additional Configuration Requirements
After the wizard completes, the following configuration needs to be completed for VPN to work on all device targets.

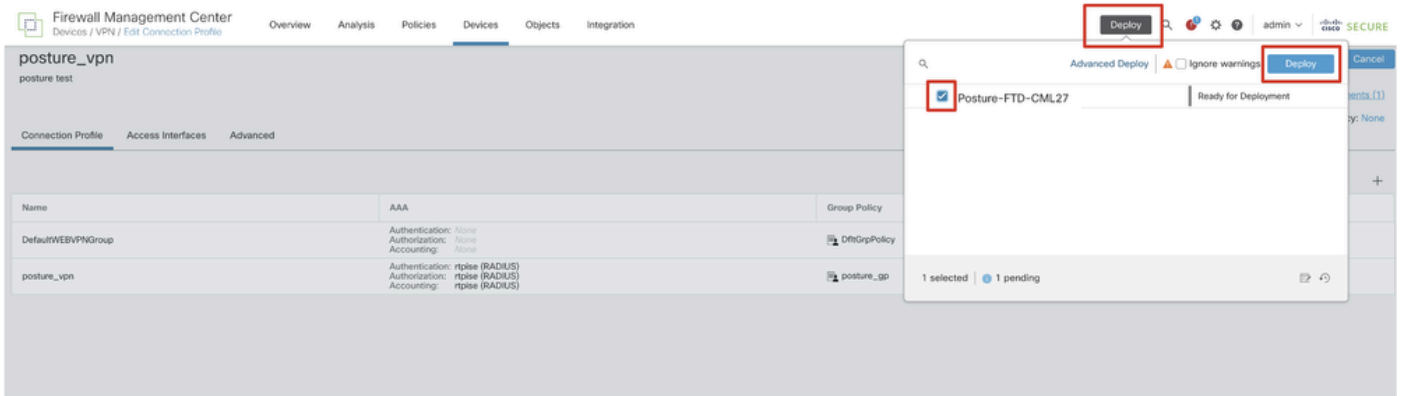
- Access Control Policy Update**
An Access Control rule must be defined to allow VPN traffic on all targeted devices.
- NAT Exemption**
If NAT is enabled on the targeted devices, you must define a NAT Policy to exempt VPN traffic.
- DNS Configuration**
To resolve hostname specified in AAA Servers or CA Servers, configure DNS using FlexConfig Policy on the targeted devices.
- Port Configuration**
SSL will be enabled on port 443. IPsec-IKEv2 uses port 500 and Client Services will be enabled on port 443 for Secure Client image download. NAT-Traversal will be enabled by default and will use port 4500. Please ensure that these ports are not used in NAT Policy or other services before deploying the configuration.

⚠️ Network Interface Configuration

Cancel Back **Finish**

FMC_New_RAVPN_Wizard_6

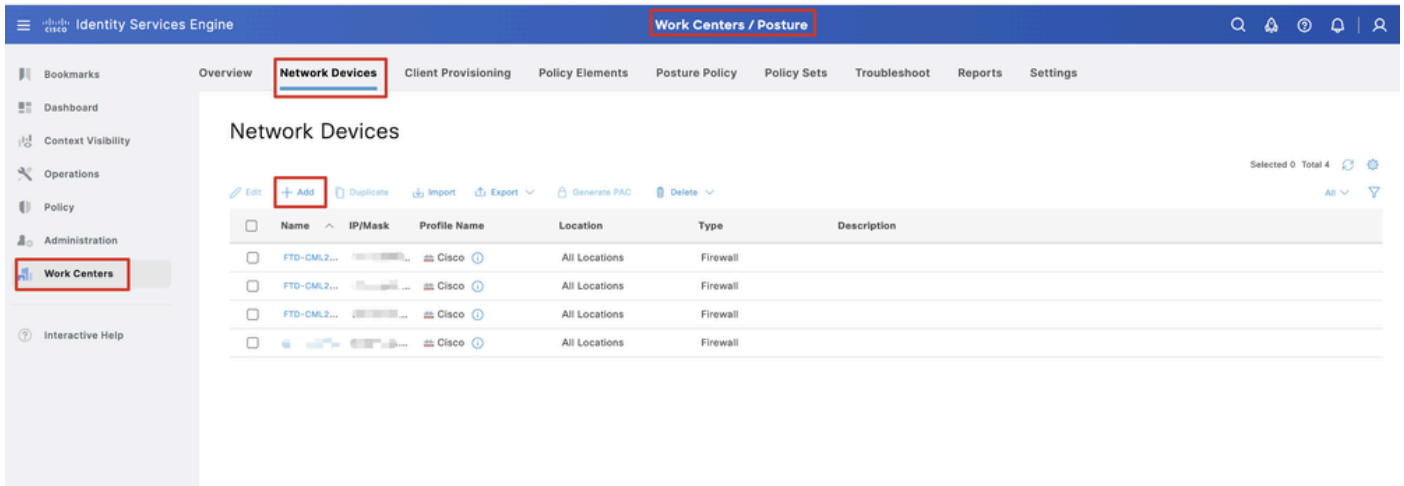
步驟 12.將新組態部署到FTD以完成遠端存取VPN組態。



FMC_Deploy_FTD

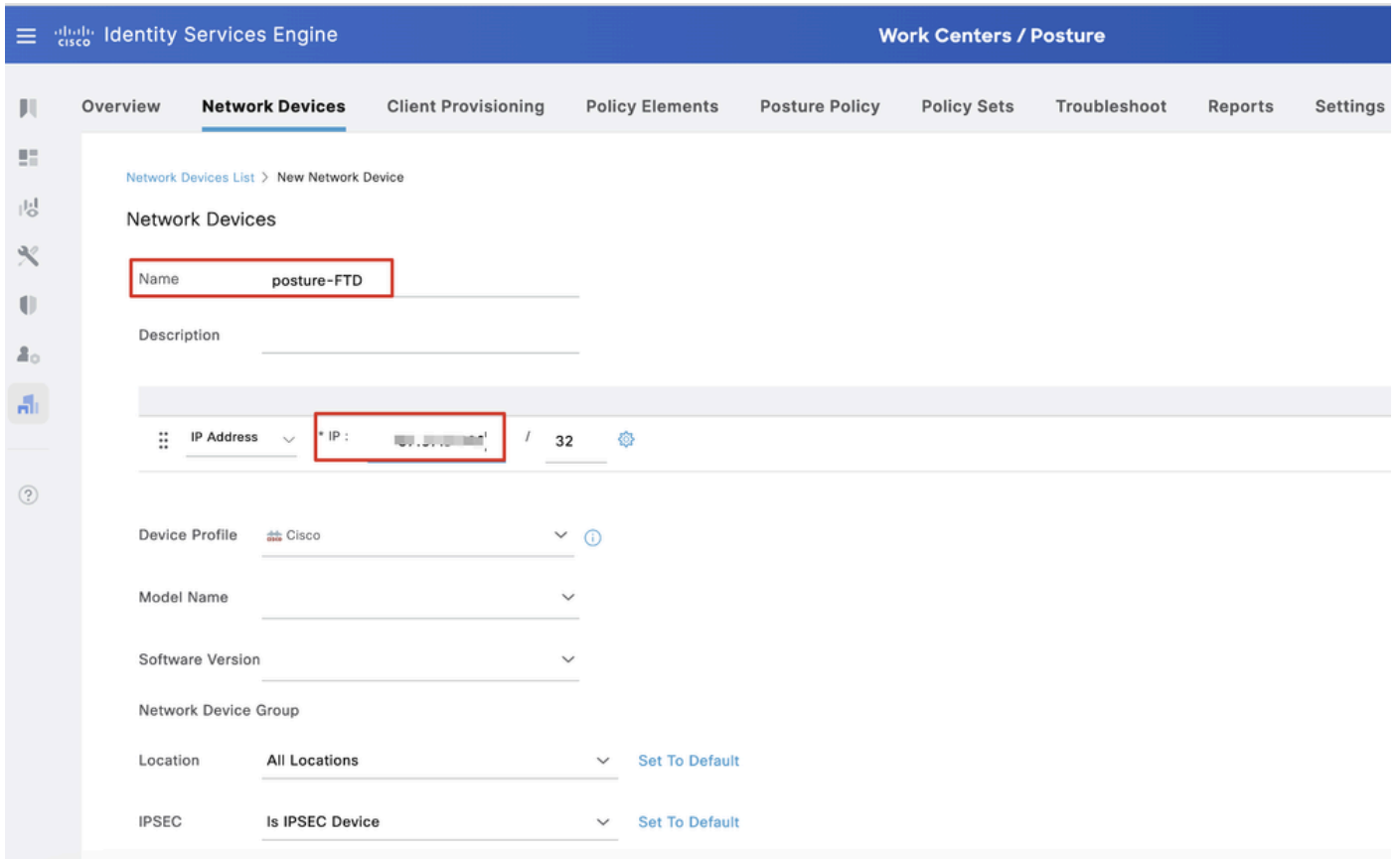
ISE上的配置

步驟 13. 導航到Work Centers > Posture > Network Devices。按一下Add。



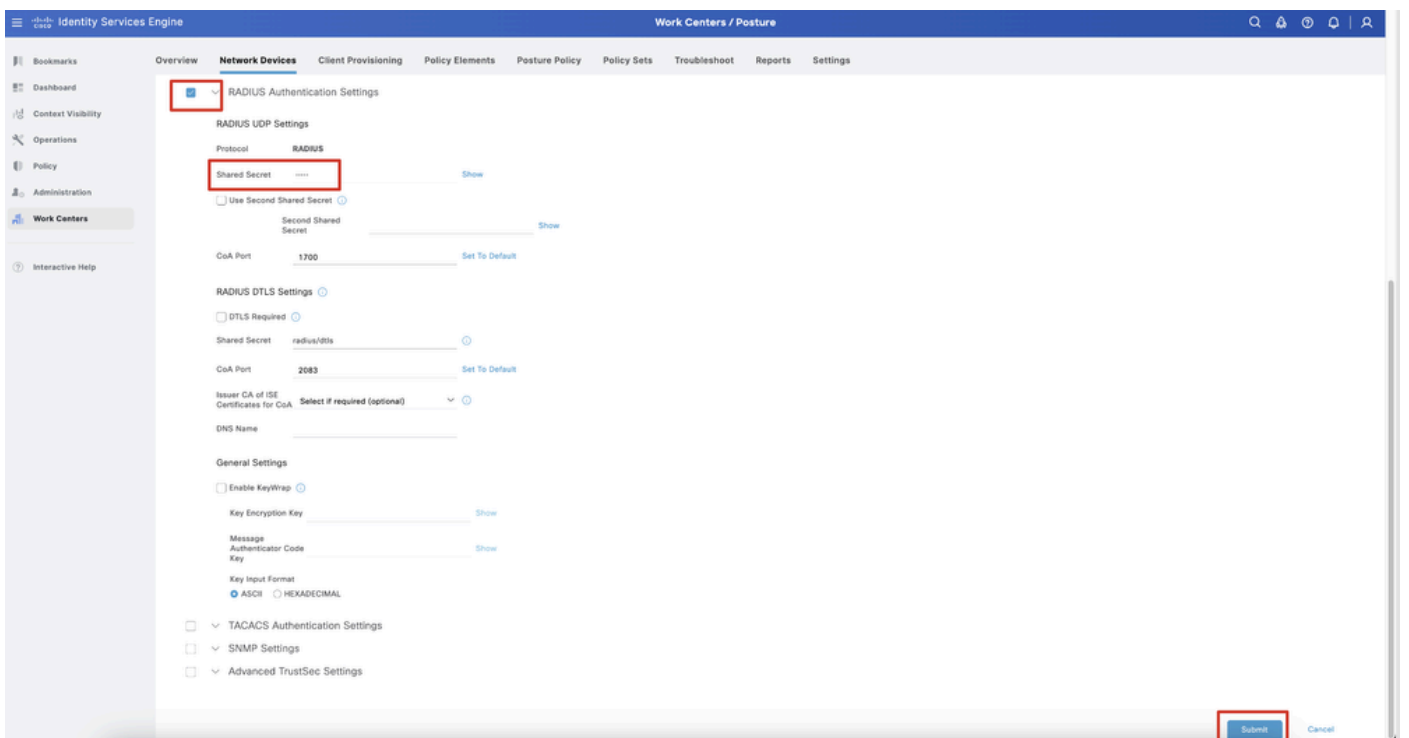
ISE_增加_新裝置

步驟 13.1. 提供Name, IP Address並向下滾動頁面。



ISE_增加_新裝置_1

步驟 13.2.選中RADIUS Authentication Settings 覈取方塊。提供Shared Secret。按一下Submit。



ISE_增加_新裝置_2

步驟 14. 從Cisco軟體下載下載軟體套件名稱cisco-secure-client-linux64-4.3.3139.0-isecompliance-webdeploy-k9.pkg，並確認下載檔案的md5校驗和與Cisco軟體下載頁相同，從而確保檔案完好。已在步驟1中成功下載包名稱cisco-secure-client-linux64-5.1.3.62-webdeploy-

k9.pkg。

步驟 15. 導航到Work Centers > Posture > Client Provisioning > Resources。按一下Add。選擇Agent resources from local disk。

The screenshot shows the Cisco Identity Services Engine (ISE) interface. The top navigation bar includes 'Identity Services Engine' and 'Work Centers / Posture'. The main navigation menu has 'Client Provisioning' selected. The left sidebar shows 'Resources' under 'Client Provisioning Policy'. The main content area is titled 'Resources' and shows a table of agent resources. The '+ Add' button is highlighted, and a dropdown menu is open with 'Agent resources from local disk' selected. The table below shows various agent resources with columns for Type, Version, Last Update, and Description.

Type	Version	Last Update	Description
WinSPWizard	3.2.0.1	2023/07/04 06:54:02	Supplicant Pro...
Native Supplicant Pro...	Not Applic...	2016/10/07 04:01:12	Pre-configured
Native Supplicant Pro...	Not Applic...	2023/07/04 07:55:16	Pre-configured
MacOsXSPWizard	2.7.0.1	2023/07/04 06:54:02	Supplicant Pro...
CiscoSecureClientDe...	5.1.3.62	2024/05/08 10:20:06	Cisco Secure C...
CiscoSecureClientDesktoLinux 5.1.3.062	5.1.3.62	2024/05/08 10:31:28	Cisco Secure C...
CiscoSecureClientComplianceModuleWindows 4.3.4015.8192	4.3.4015....	2024/05/08 10:26:57	Cisco Secure C...
CiscoSecureClientComplianceModuleLinux 4.3.3139.0	4.3.3139.0	2024/05/08 10:34:00	Cisco Secure C...
CiscoAgentlessWindows 5.0.03061	5.0.3061.0	2023/07/04 06:54:10	With CM: 4.3.3
CiscoAgentlessOSX 5.0.03061	5.0.3061.0	2023/07/04 06:54:14	With CM: 4.3.3
CiscoTemporalAgentWindows 5.0.03061	5.0.3061.0	2023/07/04 06:54:03	With CM: 4.3.3
CiscoTemporalAgentOSX 5.0.03061	5.0.3061.0	2023/07/04 06:54:07	With CM: 4.3.3

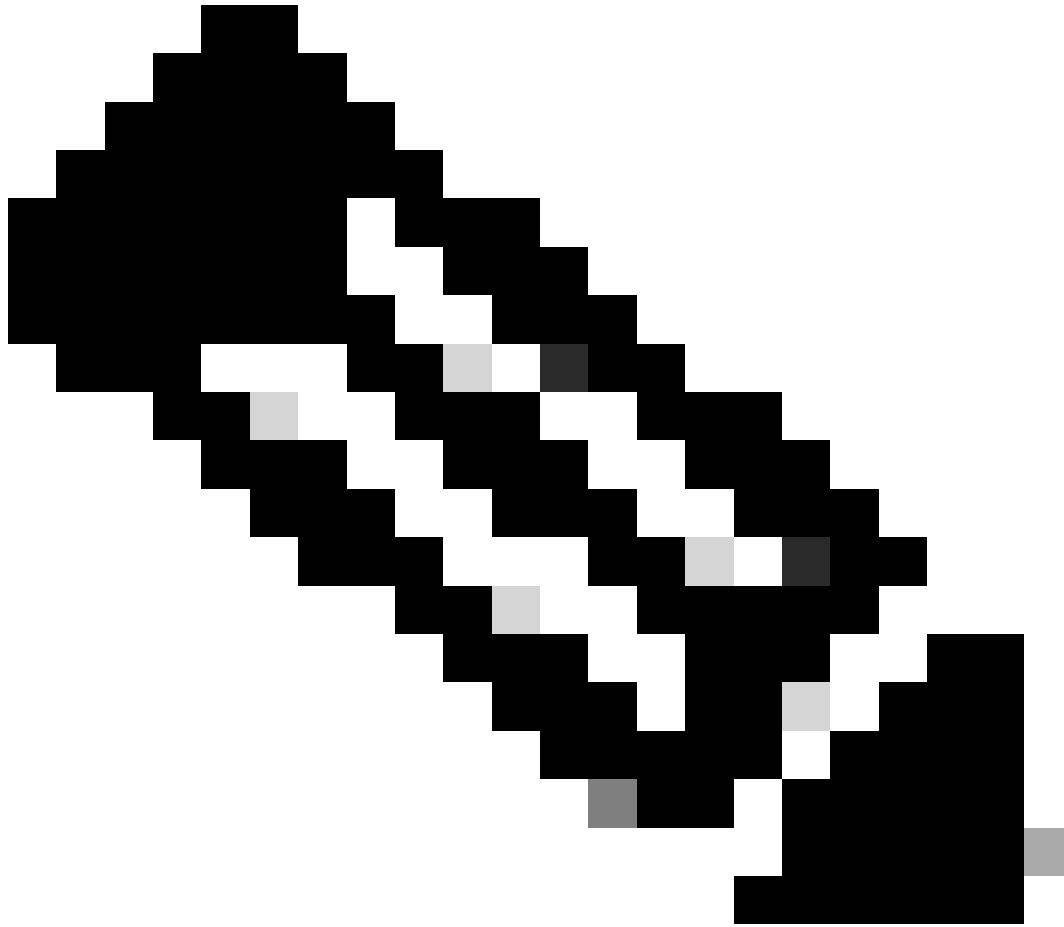
ISE_Upload_Resource

步驟 15.1. 選擇Cisco Provided Package。點選Choose File上傳cisco-secure-client-linux64-5.1.3.62-webdeploy-k9.pkg。按一下Submit。

The screenshot shows the Cisco Identity Services Engine (ISE) interface for uploading agent resources. The top navigation bar includes 'Identity Services Engine' and 'Work Centers / Posture'. The main navigation menu has 'Work Centers' selected. The left sidebar shows 'Agent Resources From Local Disk' under 'Agent Resources From Local Disk'. The main content area is titled 'Agent Resources From Local Disk' and shows a form for uploading resources. The 'Category' dropdown is set to 'Cisco Provided Package'. The 'Choose File' button is highlighted, and the file 'cisco-secure-..._employ-k9.pkg' is selected. The 'Submit' button is also highlighted. Below the form, there is a table for 'Agent Uploaded Resources' with columns for Name, Type, Version, and Description.

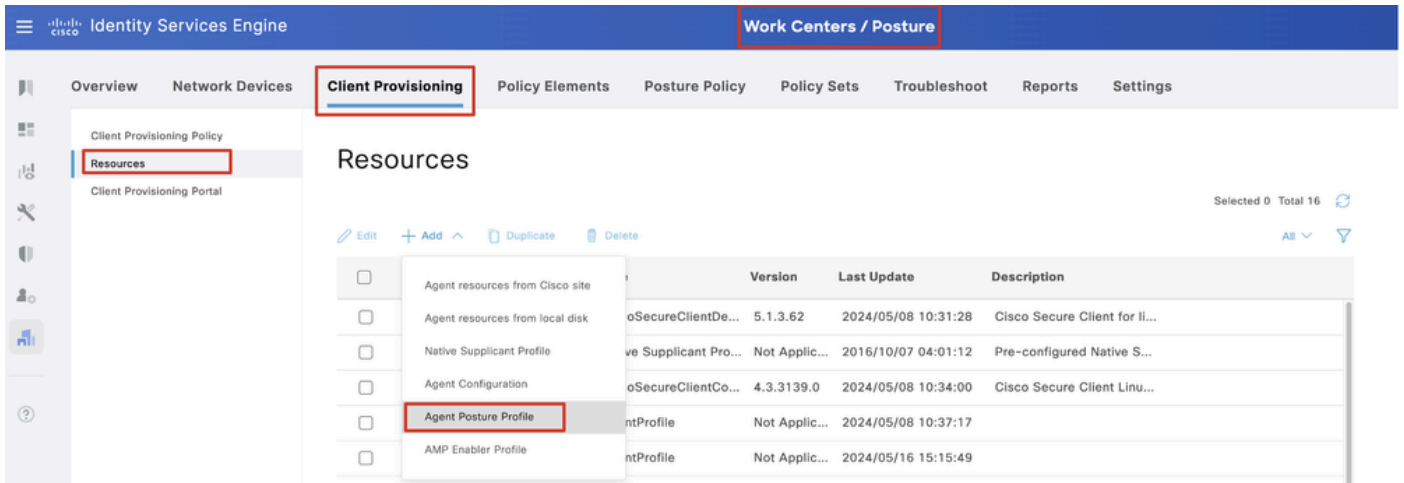
Name	Type	Version	Description
CiscoSecureClientDesktoLi...	CiscoSecureClientDe...	5.1.3.62	Cisco Secure Client for li...

ISE_Upload_Resources_1



註：重複步驟14上傳cisco-secure-client-linux64-4.3.3139.0-isecompliance-webdeploy-k9.pkg。

步驟 16. 導航到Work Centers > Posture > Client Provisioning > Resources。按一下Add。選擇Agent Posture Profile。

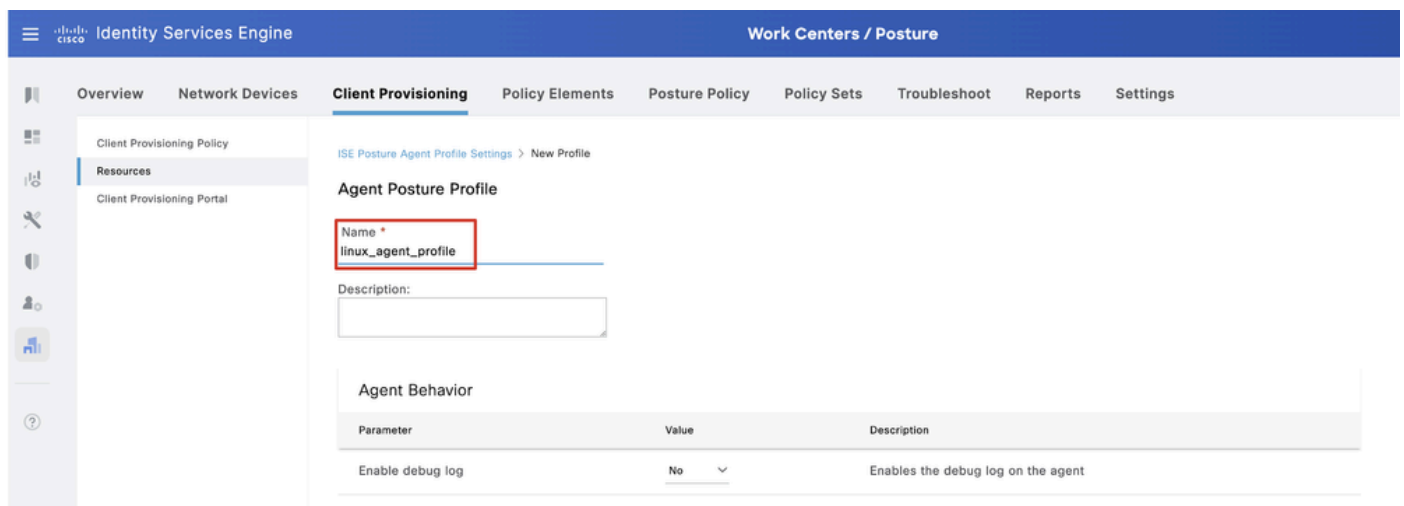


ISE_Add_Agent_Posture_Profile

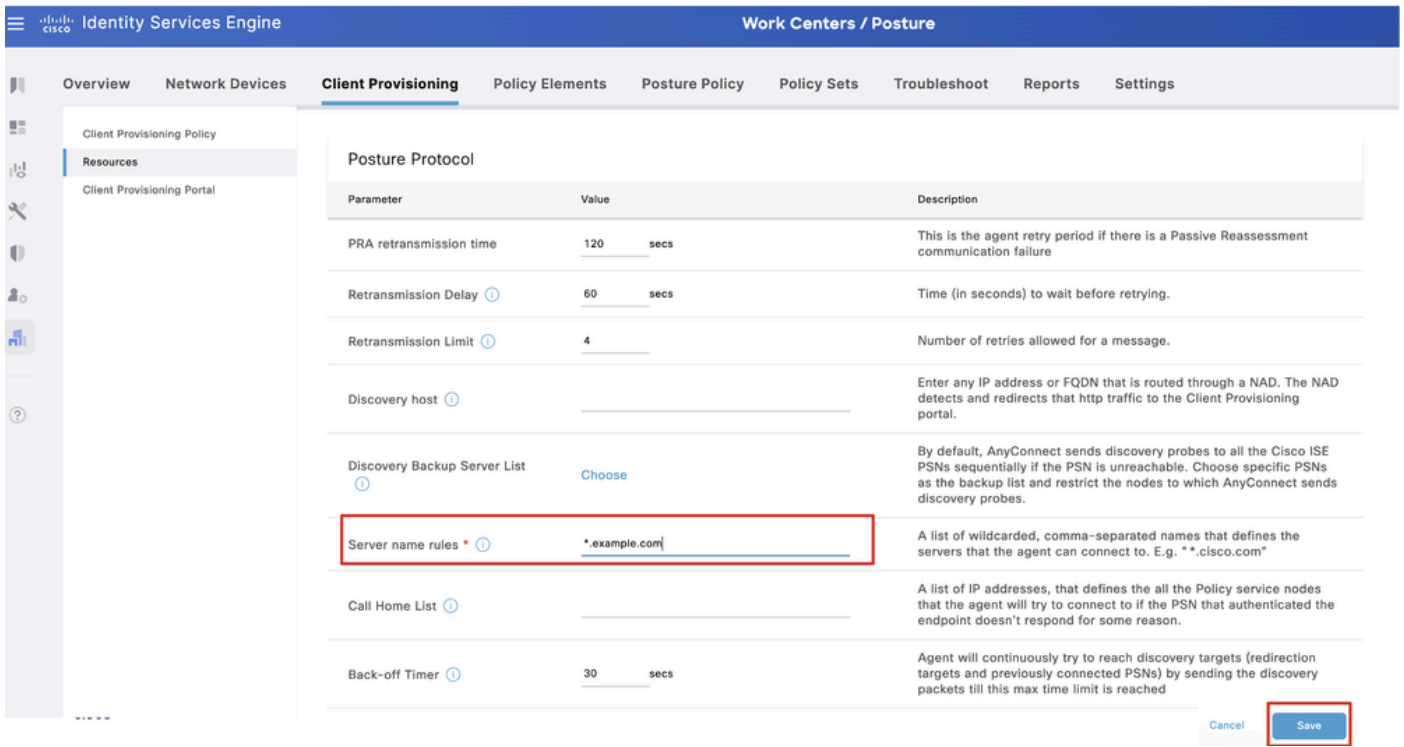
步驟 16.1.提供Name, Server name rules(並將其余的保留為預設值)。按一下Save。

名稱 : linux_agent_profile

伺服器名稱規則 : *.example.com

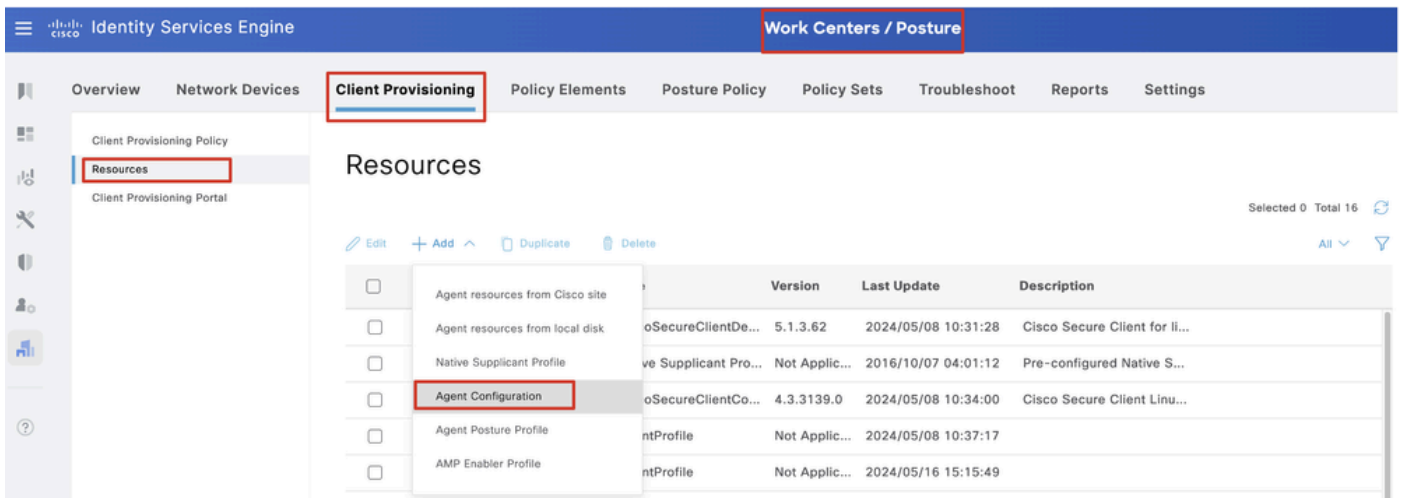


ISE_Add_Agent_Posture_Profile_1



ISE_Add_Agent_Posture_Profile_2

步驟 17. 導航到Work Centers > Posture > Client Provisioning > Resources。按一下Add。選擇Agent Configuration。



ISE增加代理配置

步驟 17.2. 配置詳細資訊：

選取代理程式套件：CiscoSecureClientDesktopLinux 5.1.3.062

名稱：linux_agent_config

合規性模組：CiscoSecureClientComplianceModuleLinux 4.3.3139.0

核取核取方塊 VPN, Diagnostic and Reporting Tool

配置檔案選擇ISE終端安全評估：linux_agent_profile

按一下Submit。

Identity Services Engine Work Centers / Posture

Overview Network Devices **Client Provisioning** Policy Elements Posture Policy Policy Sets Troubleshoot Reports Settings

Client Provisioning Policy

Resources

Client Provisioning Portal

* Select Agent Package: CiscoSecureClientDesktopLinux 5.1.3.062

* Configuration Name: linux_agent_config

Description:

Description Value Notes

* Compliance Module: CiscoSecureClientComplianceModuleLinux 4.3

Cisco Secure Client Module Selection

ISE Posture

VPN

Secure Firewall Posture

Network Visibility

Diagnostic and Reporting Tool

Profile Selection

* ISE Posture linux_agent_profile

Submit Cancel

ISE_Add_Agent_Configuration_1

步驟 18. 導航到Work Centers > Posture > Client Provisioning > Client Provisioning Policy。在任何規則名稱的末尾按一下Edit。選擇Insert new policy below。

Identity Services Engine Work Centers / Posture

Overview Network Devices **Client Provisioning** Policy Elements Posture Policy Policy Sets Troubleshoot Reports Settings

Client Provisioning Policy

Resources

Client Provisioning Portal

Define the Client Provisioning Policy to determine what users will receive upon login and user session initiation:
For Agent Configuration: version of agent, agent profile, agent compliance module, and/or agent customization package.
For Native Supplicant Configuration: wizard profile and/or wizard. Drag and drop rules to change the order.

Windows Agent, Mac Agent, Mac Temporal and Mac Agentless policies support ARM64. Windows policies run separate packages for ARM4 and Intel architectures. Mac policies run the same package for both architectures.
For Windows Agent ARM64 policies, configure Session: OS-Architecture EQUALS arm64 in the Other Conditions column.
Mac ARM64 policies require no Other Conditions arm64 configurations.
If you configure an ARM64 client provisioning policy for an OS, ensure that the ARM64 policy is at the top of the conditions list, ahead of policies without an ARM64 condition. This is because an endpoint is matched sequentially with the policies listed in this window.

Rule Name	Identity Groups	Operating Systems	Other Conditions	Results
IOS	If Any	and Apple iOS All	and Condition(s)	then Cisco-ISE-NSP
Android	If Any	and Android	and Condition(s)	then Cisco-ISE-NSP

Duplicate above

Duplicate below

Insert new policy above

Insert new policy below

Delete

ISE_

增加_新建_調配_策略

步驟 18.1. 配置詳細資訊：

規則名稱：Linux

作業系統：Linux All

結果：linux_agent_config

按一下Done 和Save。

The screenshot shows the 'Client Provisioning Policy' configuration page in Cisco ISE. The 'Linux' rule is highlighted with a red box. The table below shows the configuration for this rule.

Rule Name	Identity Groups	Operating Systems	Other Conditions	Results
IOS	if Any	and Apple IOS All	and Condition(s)	then Cisco-ISE-NSP
Android	if Any	and Android	and Condition(s)	then Cisco-ISE-NSP
Linux	if Any	and Linux All	and Condition(s)	then linux_agent_config

ISE_Add_New_Provising_Policy_1

步驟 19. 導航到Work Centers > Posture > Policy Elements > Conditions > File。按一下Add。

The screenshot shows the 'File Conditions' configuration page in Cisco ISE. The 'File' condition type is highlighted with a red box. The table below shows the configuration for this condition type.

Name	Description	File name	Condition Type
pc_XP64_KB2797052_MS13...	Cisco Predefined Check...	SYSTEM_PROGRAMSIC...	Cisco-Defined
pc_W8_64_KB3124275_MS...	Cisco Predefined Check...	SYSTEM_ROOT\sysnativ...	Cisco-Defined
pc_Vista_KB2893294_MS13...	Cisco Predefined Check...	SYSTEM_32\imagehlp.dll	Cisco-Defined
pc_W81_64_KB3033889_M...	Cisco Predefined Check...	SYSTEM_ROOT\sysnativ...	Cisco-Defined
pc_Vista64_KB925902_MS0...	Cisco Predefined Check...	SYSTEM_ROOT\winsxsla...	Cisco-Defined
pc_W10_64_1709_KB45803...	Cisco Predefined Check...	SYSTEM_ROOT\sysnativ...	Cisco-Defined
pc_XP_KB2653956_MS12-0...	Cisco Predefined Check...	SYSTEM_32\Wintrust.dll	Cisco-Defined
pc_W8_KB2892074_MS13-...	Cisco Predefined Check...	SYSTEM_32\Scrrun.dll	Cisco-Defined
pc_W10_64_1909_KB50139...	Cisco Predefined Check...	SYSTEM_ROOT\SysWO...	Cisco-Defined
pc_W7_KB2681578_MS12-...	Cisco Predefined Check...	SYSTEM_32\Win32x.sys	Cisco-Defined
pc_W10_KB3081436_MS15...	Cisco Predefined Check...	SYSTEM_32\Edgehtml.dll	Cisco-Defined
pc_W81_64_KB3042553_M...	Cisco Predefined Check...	SYSTEM_ROOT\sysnativ...	Cisco-Defined
pc_W8_64_KB2727528_MS...	Cisco Predefined Check...	SYSTEM_ROOT\sysnativ...	Cisco-Defined
pc_W8_64_KB2992611_MS...	Cisco Predefined Check...	SYSTEM_ROOT\sysnativ...	Cisco-Defined
pc_W7_KB3078601_MS15-...	Cisco Predefined Check...	SYSTEM_32\Win32x.sys	Cisco-Defined

ISE_Add_New_File_Condition

步驟 19.1. 配置詳細資訊：

名稱：linux_demo_file_exist

作業系統：Linux All

檔案型別：檔案存在

檔案路徑：home , Desktop/test.txt

檔案運算子：存在

按一下Submit。

The screenshot shows the Cisco Identity Services Engine (ISE) interface for configuring a File Condition. The page title is "Work Centers / Posture". The navigation menu includes Overview, Network Devices, Client Provisioning, Policy Elements (selected), Posture Policy, Policy Sets, Troubleshoot, Reports, and Settings. The left sidebar lists various conditions: Anti-Malware, Anti-Spyware, Anti-Virus, Application, Compound, Dictionary Compound, Dictionary Simple, Disk Encryption, External DataSource, File (selected), Firewall, Hardware Attributes, Patch Management, Registry, Script, Service, and USB. The "File Condition" form is displayed with the following fields: Name * (linux_demo_file_exist), Description, * Operating System (Linux All), Compliance Module (Any version), * File Type (FileExistence), * File Path (home), * File Operator (Exists), and a text input field containing Desktop/test.txt. A Submit button and a Cancel button are located at the bottom right of the form.

ISE_Add_New_File_Condition_1

步驟 20. 導航到Work Centers > Posture > Policy Elements > Requirements。在任何規則名稱的末尾按一下Edit。選擇Insert new Requirement。

Identity Services Engine Work Centers / Posture

Overview Network Devices Client Provisioning **Policy Elements** Posture Policy Policy Sets Troubleshoot Reports Settings

Bookmarks Dashboard Context Visibility Operations Policy Administration **Work Centers** Interactive Help

Conditions

- Anti-Malware
- Anti-Spyware
- Anti-Virus
- Application
- Compound
- Dictionary Compound
- Dictionary Simple
- Disk Encryption
- External DataSource
- File
- Firewall
- Hardware Attributes
- Patch Management
- Registry
- Script
- Service
- USB

Remediations

- Allowed Protocols
- Authorization Profiles
- Downloadable ACLs
- Requirements**

Requirements

Name	Operating System	Compliance Module	Posture Type	Conditions	Remediations Actions	
Any_AV_Installation_Win	for Windows All	using 3.x or earlier	using Agent	met if ANY_av_win_inst then	Message Text Only	Edit
Any_AV_Definition_Win	for Windows All	using 3.x or earlier	using Agent	met if ANY_av_win_def then	AnyAVDefRemediationWin	Edit Duplicate
Any_AS_Installation_Win	for Windows All	using 3.x or earlier	using Agent	met if ANY_as_win_inst then	Message Text Only	Edit Insert new Requirement
Any_AS_Definition_Win	for Windows All	using 3.x or earlier	using Agent	met if ANY_as_win_def then	AnyASDefRemediationWin	Edit Delete
Any_AV_Installation_Mac	for Mac OSX	using 3.x or earlier	using Agent	met if ANY_av_mac_inst then	Message Text Only	Edit
Any_AV_Definition_Mac	for Mac OSX	using 3.x or earlier	using Agent	met if ANY_av_mac_def then	AnyAVDefRemediationMac	Edit
Any_AS_Installation_Mac	for Mac OSX	using 3.x or earlier	using Agent	met if ANY_as_mac_inst then	Message Text Only	Edit
Any_AS_Definition_Mac	for Mac OSX	using 3.x or earlier	using Agent	met if ANY_as_mac_def then	AnyASDefRemediationMac	Edit
Any_AM_Installation_Win	for Windows All	using 4.x or later	using Agent	met if ANY_am_win_inst then	Message Text Only	Edit
Any_AM_Definition_Win	for Windows All	using 4.x or later	using Agent	met if ANY_am_win_def then	AnyAMDefRemediationWin	Edit
Any_AM_Installation_Mac	for Mac OSX	using 4.x or later	using Agent	met if ANY_am_mac_inst then	Message Text Only	Edit
Any_AM_Definition_Mac	for Mac OSX	using 4.x or later	using Agent	met if ANY_am_mac_def then	AnyAMDefRemediationMac	Edit
Any_AM_Installation_Lin	for Linux All	using 4.x or later	using Agent	met if ANY_am_lin_inst then	Select Remediations	Edit
Any_AM_Definition_Lin	for Linux All	using 4.x or later	using Agent	met if ANY_am_lin_def then	Select Remediations	Edit
USB_Block	for Windows All	using 4.x or later	using Agent	met if USB_Check then	USB_Block	Edit
Default_AppVis_Requirement_Win	for Windows All	using 4.x or later	using Agent	met if Default_AppVis_Condition_Win then	Select Remediations	Edit
Default_AppVis_Requirement_Mac	for Mac OSX	using 4.x or later	using Agent	met if Default_AppVis_Condition_Mac then	Select Remediations	Edit
Default_Hardware_Attributes_Requirement_Win	for Windows All	using 4.x or later	using Agent	met if Hardware_Attributes_Check then	Select Remediations	Edit
Default_Hardware_Attributes_Requirement_Mac	for Mac OSX	using 4.x or later	using Agent	met if Hardware_Attributes_Check then	Select Remediations	Edit

Note:
Remediation Action is filtered based on the operating system and stealth mode selection.
Remediation Actions are not applicable for Application Conditions (configured using the Provision By Category or Provision By Everything options), Hardware Conditions, and External Data source conditions.
Remediations Actions are not applicable for Agentless Posture type.

ISE_Add_New_Posture_Requirement

步驟 20.1. 配置詳細資訊：

名稱：Test_exist_linux

作業系統：Linux All

合規性模組：4.x或更高版本

狀態型別：代理

條件：linux_demo_file_exist

按一下Done 和Save。

Identity Services Engine Work Centers / Posture

Overview Network Devices Client Provisioning **Policy Elements** Posture Policy Policy Sets Troubleshoot Reports Settings

Conditions

- Anti-Malware
- Anti-Spyware
- Anti-Virus
- Application
- Compound
- Dictionary Compound
- Dictionary Simple
- Disk Encryption
- External DataSource
- File
- Firewall
- Hardware Attributes
- Patch Management
- Registry
- Script
- Service
- USB

Remediations

- Required Protocols
- Authorization Profiles
- Downloadable ACLs

Guide Me

Requirements

Name	Operating System	Compliance Module	Posture Type	Conditions	Remediations Actions
Test_exist_linux	for Linux All	using 4.x or later	using Agent	met if linux_demo_file_exist	then Select Remediations
Any_AV_Installation_Win	for Windows All	using 3.x or earlier	using Agent	met if ANY_av_win_inst	then Message Text Only
Any_AV_Definition_Win	for Windows All	using 3.x or earlier	using Agent	met if ANY_av_win_def	then AnyAVDefRemediationWin
Any_AS_Installation_Win	for Windows All	using 3.x or earlier	using Agent	met if ANY_as_win_inst	then Message Text Only
Any_AS_Definition_Win	for Windows All	using 3.x or earlier	using Agent	met if ANY_as_win_def	then AnyASDefRemediationWin
Any_AV_Installation_Mac	for Mac OSX	using 3.x or earlier	using Agent	met if ANY_av_mac_inst	then Message Text Only
Any_AV_Definition_Mac	for Mac OSX	using 3.x or earlier	using Agent	met if ANY_av_mac_def	then AnyAVDefRemediationMac
Any_AS_Installation_Mac	for Mac OSX	using 3.x or earlier	using Agent	met if ANY_as_mac_inst	then Message Text Only
Any_AS_Definition_Mac	for Mac OSX	using 3.x or earlier	using Agent	met if ANY_as_mac_def	then AnyASDefRemediationMac
Any_AM_Installation_Win	for Windows All	using 4.x or later	using Agent	met if ANY_am_win_inst	then Message Text Only
Any_AM_Definition_Win	for Windows All	using 4.x or later	using Agent	met if ANY_am_win_def	then AnyAMDefRemediationWin
Any_AM_Installation_Mac	for Mac OSX	using 4.x or later	using Agent	met if ANY_am_mac_inst	then Message Text Only
Any_AM_Definition_Mac	for Mac OSX	using 4.x or later	using Agent	met if ANY_am_mac_def	then AnyAMDefRemediationMac

Note:
Remediation Action is filtered based on the operating system and stealth mode selection.
Remediation Actions are not applicable for Application Conditions (configured using the Provision By Category or Provision By Everything options), Hardware Conditions, and External Data source conditions.
Remediations Actions are not applicable for Agentless Posture type.

Save Reset

ISE_Add_New_Posture_Requirement_1

注意：到目前為止，Linux代理程式僅支援Shell命令檔作為修正。

步驟 21. 導航到Work Centers > Posture > Policy Elements > Authorization Profiles。按一下Add。

步驟 21.1. 配置詳細資訊：

名稱：unknown_redirect

核取核取方塊 Web Redirection(CWA,MDM,NSP,CPP)

選取 Client Provisioning(Posture)

ACL：重定向

值：使用者端布建入口網站 (預設)

The screenshot shows the Cisco Identity Services Engine (ISE) interface. The top navigation bar includes 'Work Centers / Posture'. The main navigation tabs are 'Overview', 'Network Devices', 'Client Provisioning', 'Policy Elements', 'Posture Policy', 'Policy Sets', 'Troubleshoot', 'Reports', and 'Settings'. The left sidebar lists various configuration categories, with 'Authorization Profiles' highlighted. The main content area is titled 'Authorization Profile' and shows the configuration for a profile named 'unknown_redirect'. The 'Name' field is 'unknown_redirect', and the 'Access Type' is 'ACCESS_ACCEPT'. Under 'Common Tasks', the 'Web Redirection (CWA, MDM, NSP, CPP)' checkbox is checked. The 'ACL' dropdown is set to 'redirect', and the 'Value' dropdown is set to 'Client Provisioning Portal (def)'. Other options like 'Voice Domain Permission', 'Static IP/Host name/FQDN', and 'Suppress Profiler CoA for endpoints in Logical Profile' are unchecked.

ISE_Add_New_Authorization_Profile_Redirect_1

附註：此ACL名稱重新導向必須與FTD上設定的對應ACL名稱相符。

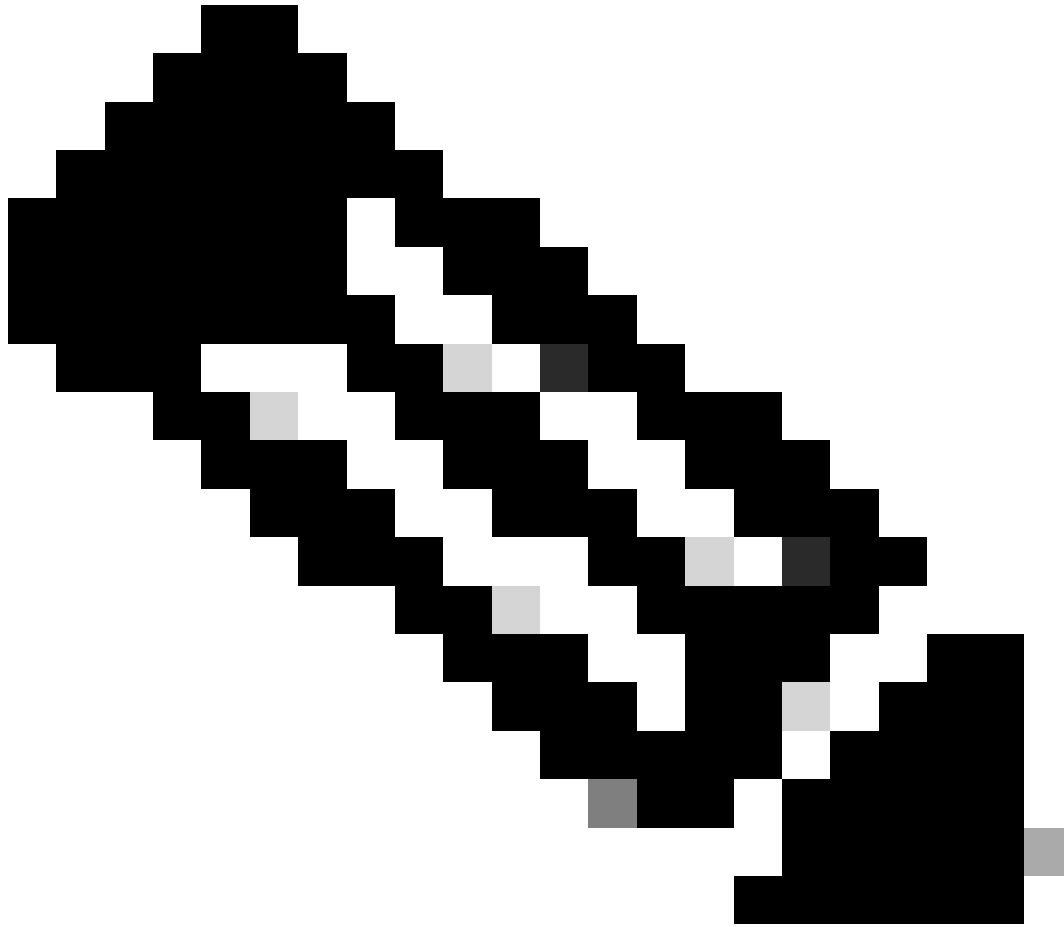
步驟 21.2.重複Add 以建立另兩個授權配置檔案，為不相容和相容的終端提供詳細資訊。

名稱：non_compliant_profile

DACL名稱：DENY_ALL_IPv4_TRAFFIC

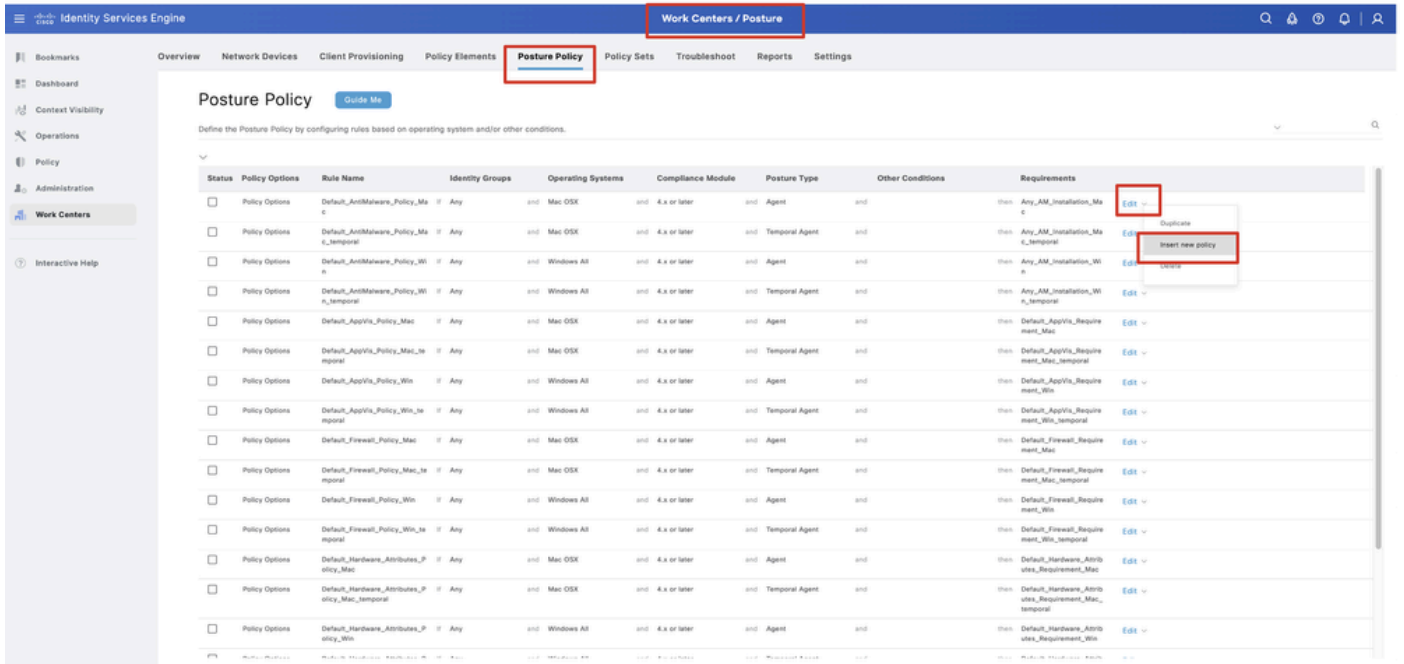
名稱：compliant_profile

DACL名稱：PERMIT_ALL_IPv4_TRAFFIC



註：需要根據實際需求配置合規端點和不合規端點的DAACL。

步驟 22. 導航到Work Centers > Posture > Posture Policy。在任何規則的末尾按一下Edit。選擇Insert new policy。



ISE_Add_New_Posture_Policy

步驟 22.1. 配置詳細資訊：

規則名稱：Demo_test_exist_linux

身份組：任意

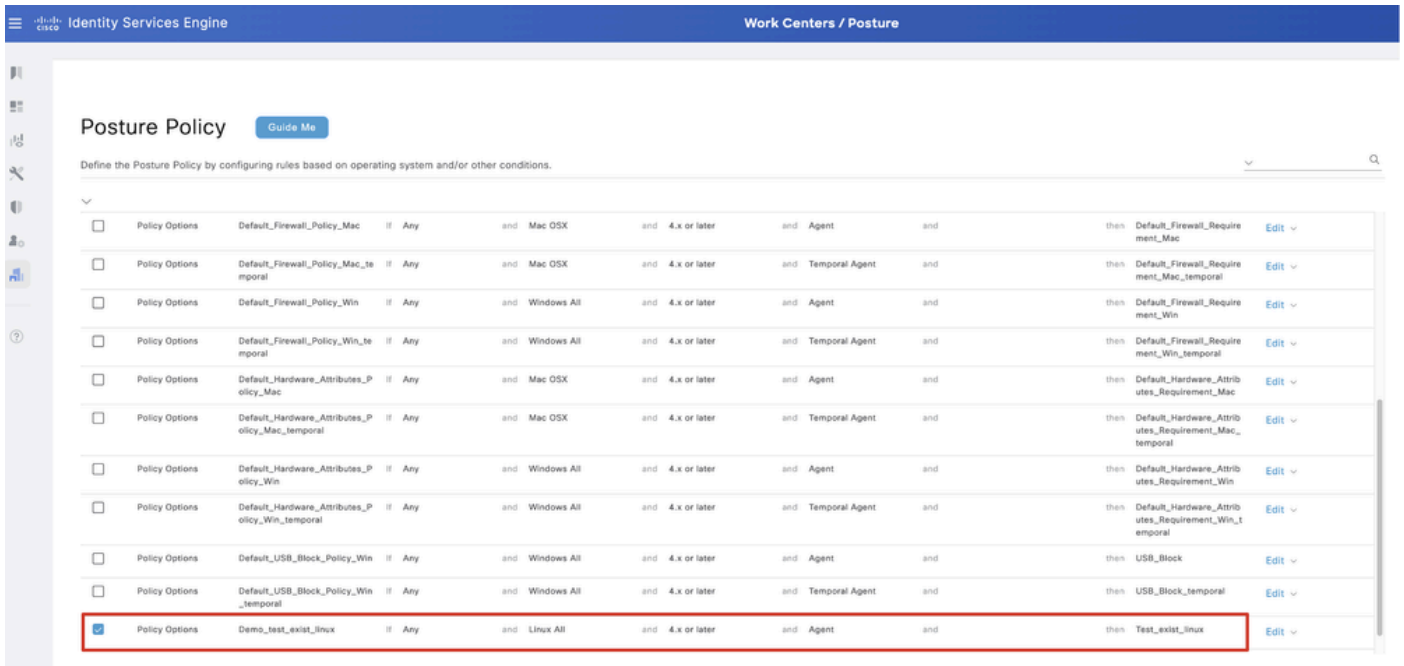
作業系統：Linux All

合規性模組：4.x或更高版本

狀態型別：代理

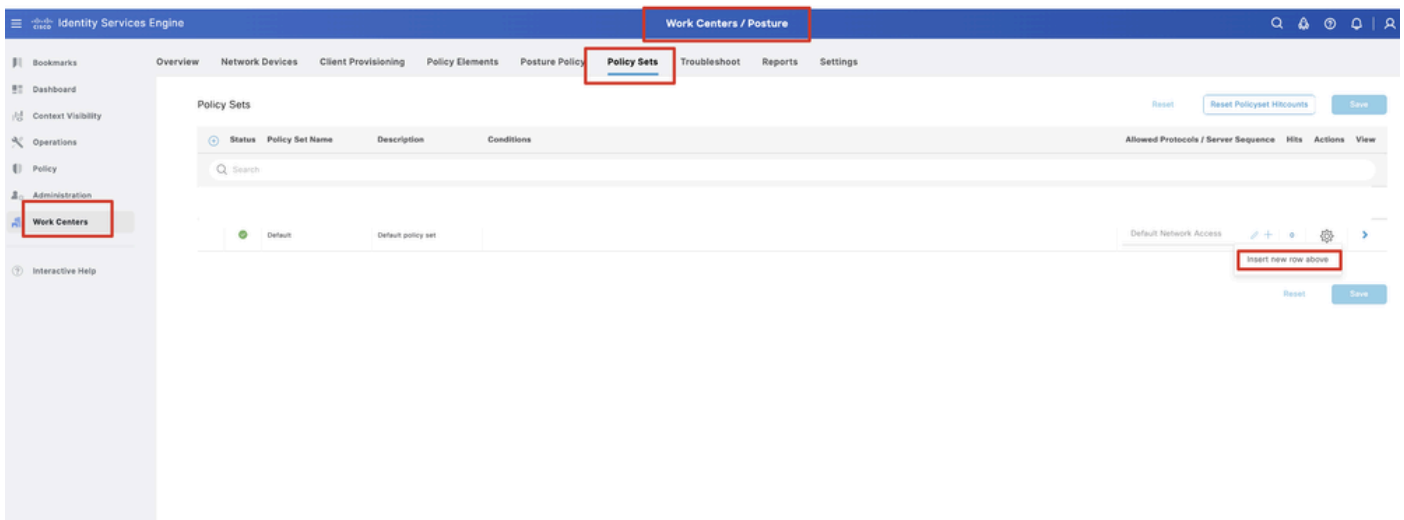
需求：Test_exist_linux

按一下Done 和Save。



ISE_Add_New_Posture_Policy_1

步驟 23. 導航到 Work Centers > Posture > Policy Sets。按一下以 Insert new row above。



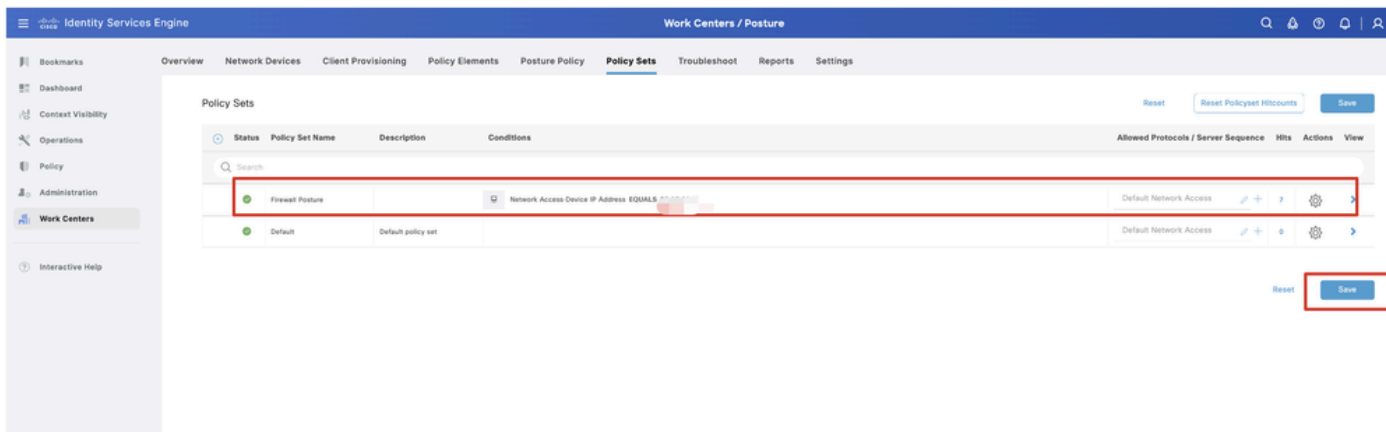
ISE_Add_New_Policy_Set

步驟 23.1. 配置詳細資訊：

策略集名稱：防火牆狀態

條件：網路訪問裝置IP地址等於[FTD IP地址]

按一下 Save。



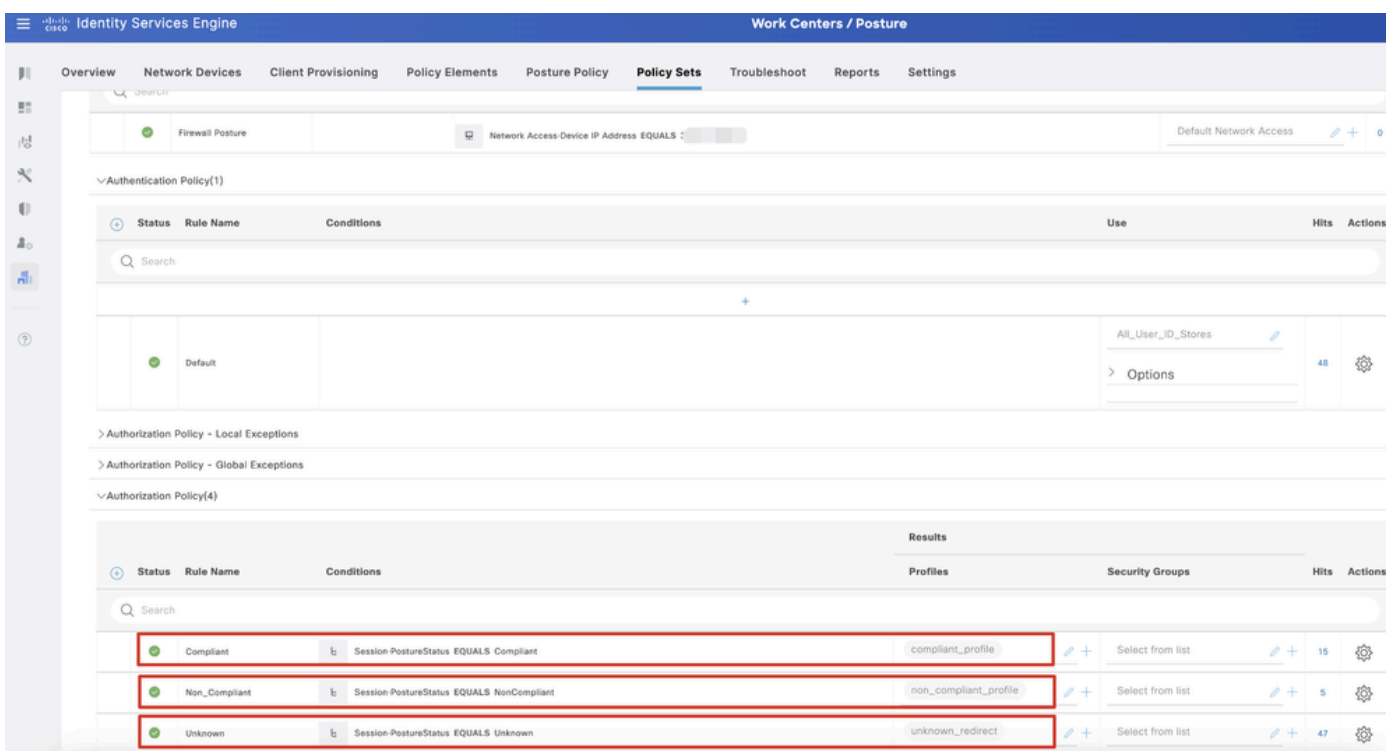
ISE_Add_New_Policy_Set_1

步驟 23.2.按一下>以輸入策略集。為狀態相容、不相容和未知狀態建立新的授權規則。按一下Save。

與compliant_profile相容

與non_compliant_profile不相容

未知與unknown_redirect



ISE_Add_New_Policy_Set_2

Ubuntu上的配置

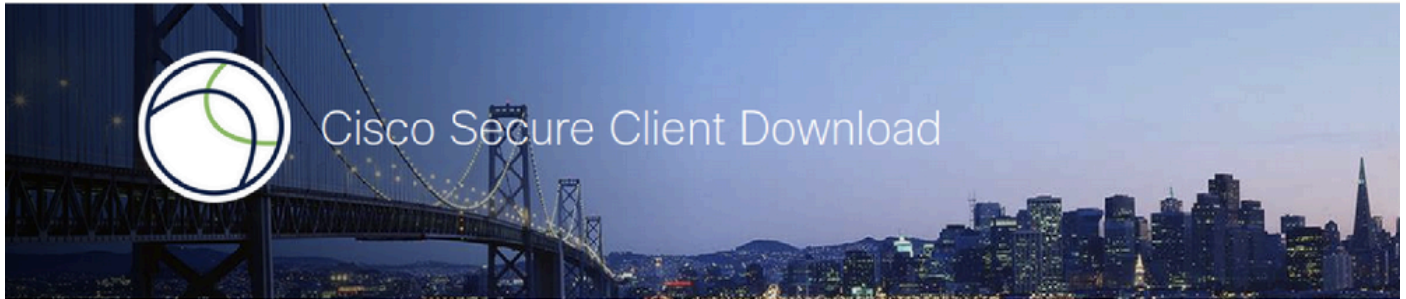
步驟 24.透過GUI登入到Ubuntu客戶端。打開瀏覽器以登入VPN門戶。在本示例中，它是demo.example.com。

A screenshot of a web-based login form titled "Logon". The form contains the following elements:

- A "Group" dropdown menu with "posture_vpn" selected.
- A "Username" text input field.
- A "Password" text input field.
- A "Logon" button located below the input fields.

Ubuntu_Browser_VPN_Login

步驟 25. 按一下Download for Linux。



Download & Install

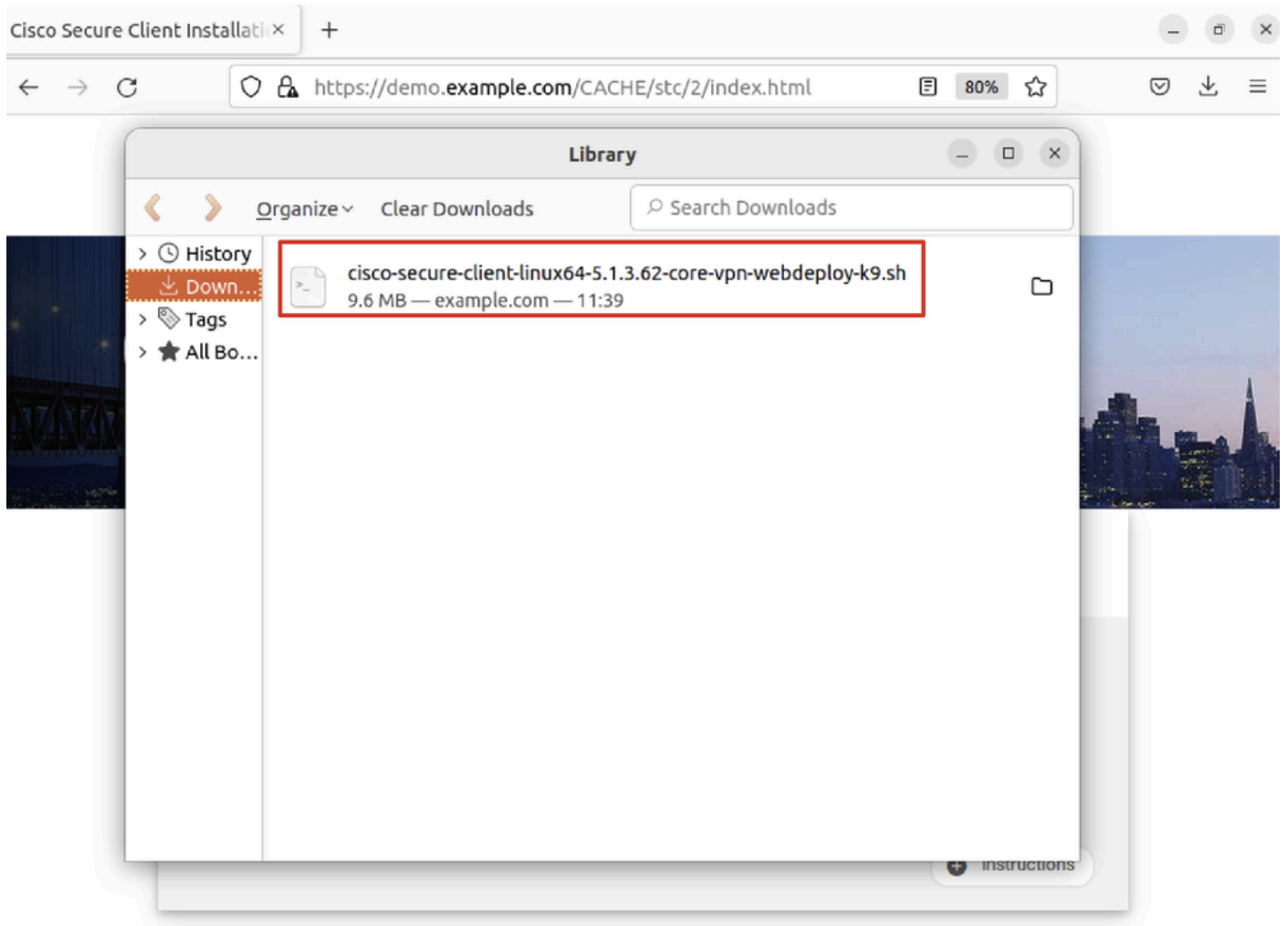
Download Cisco Secure Client and install it on your computer.

[Download for Linux](#)

[+ Instructions](#)

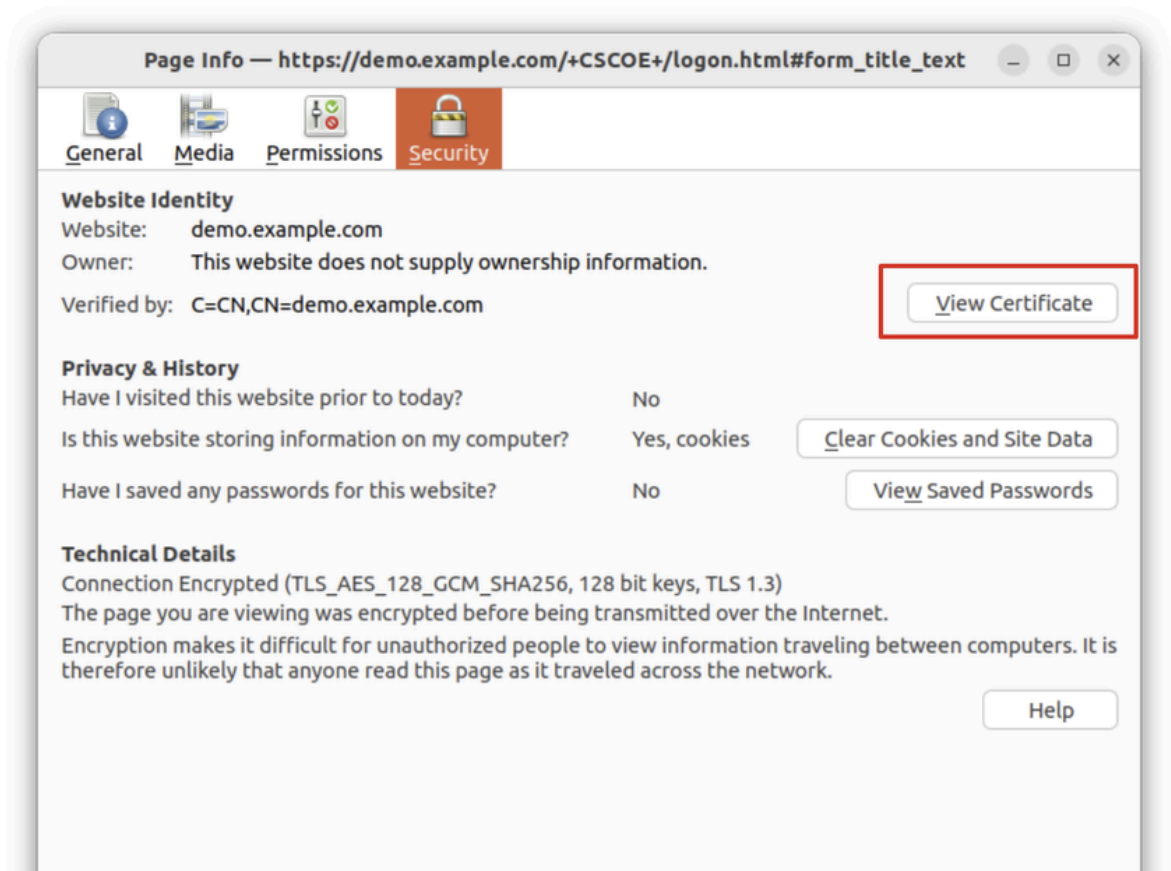
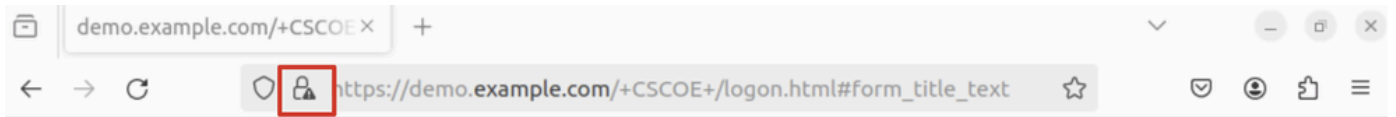
Ubuntu_Browser_VPN_Download_1

下載的檔名為cisco-secure-client-linux64-5.1.3.62-core-vpn-webdeploy-k9.sh。



Ubuntu_Browser_VPN_Download_2

步驟 26.透過瀏覽器下載VPN證書並將檔案重新命名為<certificate>.crt。以下是使用firefox下載憑證的範例。



Ubuntu_Browser_VPN_Cert_Download

步驟 27. 打開Ubuntu客戶端上的終端。導航到path home/user/Downloads/安裝Cisco Secure Client。

```
<#root>
```

```
user@ubuntu22-desktop:~$
```

```
cd Downloads/
```

```
user@ubuntu22-desktop:~/Downloads$
```

```
ls
```

```
cisco-secure-client-linux64-5.1.3.62-core-vpn-webdeploy-k9.sh
```

```
demo-example-com.crt
```

```
user@ubuntu22-desktop:~/Downloads$
```

```
chmod +x cisco-secure-client-linux64-5.1.3.62-core-vpn-webdeploy-k9.sh
```

```
user@ubuntu22-desktop:~/Downloads$
```

```
sudo ./cisco-secure-client-linux64-5.1.3.62-core-vpn-webdeploy-k9.sh
```

```
[sudo] password for user:  
Installing Cisco Secure Client...  
Migrating /opt/cisco/anyconnect directory to /opt/cisco/secureclient directory  
Extracting installation files to /tmp/vpn.zaeAZd/vpninst959732303.tgz...  
Unarchiving installation files to /tmp/vpn.zaeAZd...  
Starting Cisco Secure Client Agent...  
Done!  
Exiting now.  
user@ubuntu22-desktop:~/Downloads$
```

步驟 28.信任Ubuntu客戶端上的VPN門戶證書。

```
<#root>
```

```
user@ubuntu22-desktop:~$
```

```
cd Downloads/
```

```
user@ubuntu22-desktop:~/Downloads$
```

```
ls
```

```
cisco-secure-client-linux64-5.1.3.62-core-vpn-webdeploy-k9.sh
```

```
demo-example-com.crt
```

```
user@ubuntu22-desktop:~/Downloads$
```

```
openssl verify demo-example-com.crt
```

```
CN = demo.example.com, C = CN  
error 18 at 0 depth lookup: self-signed certificate  
Error demo-example-com.crt:
```

```
verification failed
```

```
user@ubuntu22-desktop:~/Downloads$
```

```
sudo cp demo-example-com.crt /usr/local/share/ca-certificates/
```

```
user@ubuntu22-desktop:~/Downloads$
```

```
sudo update-ca-certificates
```

```
Updating certificates in /etc/ssl/certs...
```

```
rehash: warning: skipping ca-certificates.crt,it does not contain exactly one certificate or CRL
```

```
1 added
```

```
, 0 removed; done.
```

```
Running hooks in /etc/ca-certificates/update.d...
```

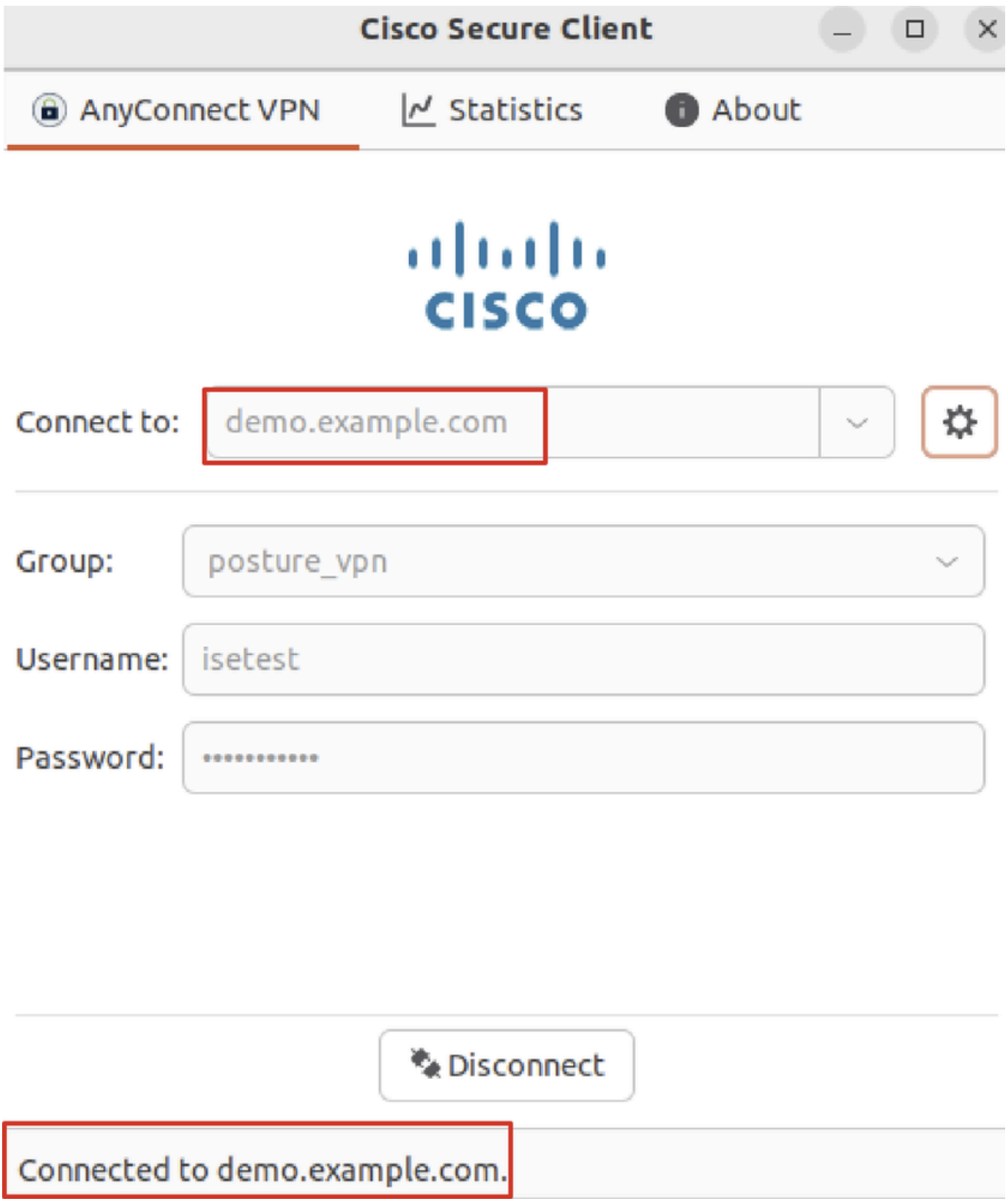
```
done.
```

```
user@ubuntu22-desktop:~/Downloads$
```

```
openssl verify demo-example-com.crt
```

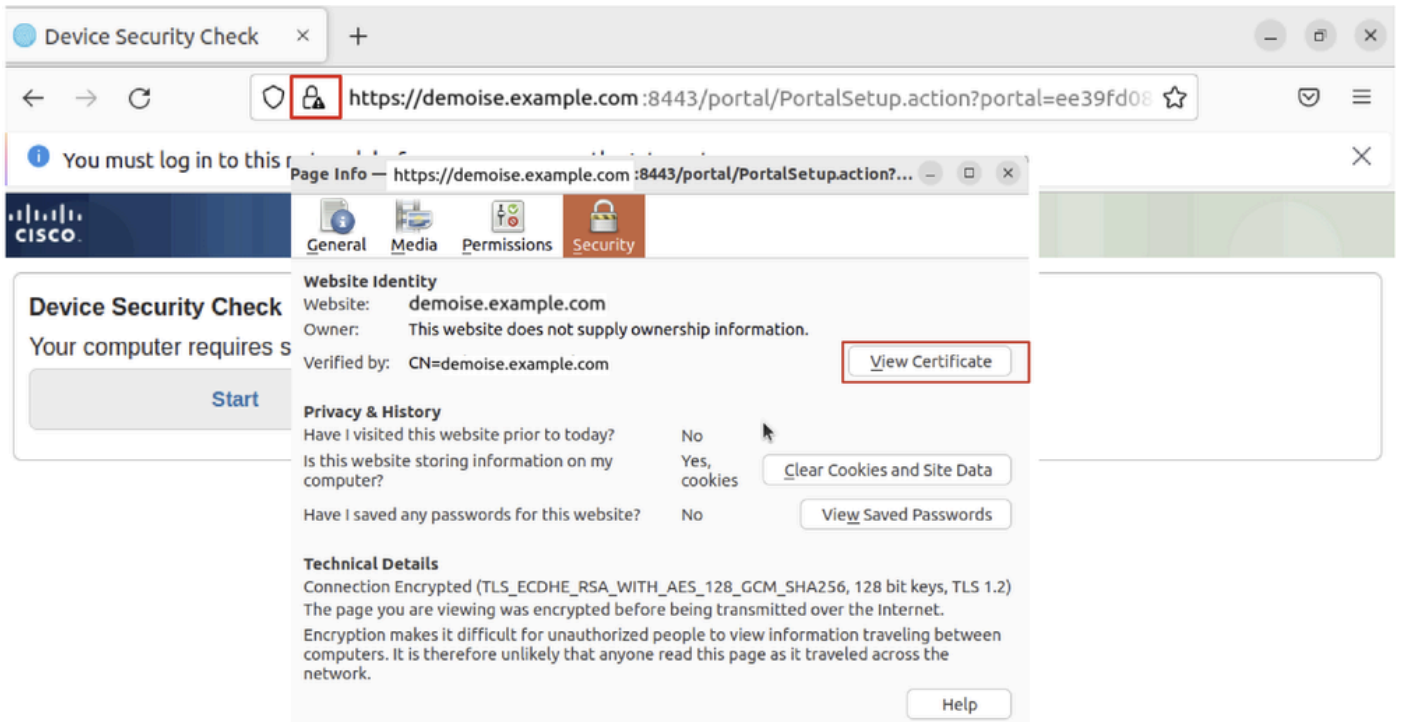
```
demo-example-com.crt: OK
```

步驟 29. 在Ubuntu客戶端上打開Cisco Secure Client，然後成功將VPN連線到demo.example.com。



Ubuntu_Secure_Client_Connected

步驟 30. 打開瀏覽器以訪問觸發重定向至ISE CPP門戶的任何網站。從ISE CPP門戶下載證書並將檔案重新命名為<certificate>.crt。 以下是使用Firefox進行下載的範例。



Ubuntu_Browser_CPP_Cert_Download

步驟 30.1.信任Ubuntu客戶端上的ISE CPP門戶證書。

<#root>

```
user@ubuntu22-desktop:~/Downloads$ ls
cisco-secure-client-linux64-5.1.3.62-core-vpn-webdeploy-k9.sh
demo-example-com.crt
```

```
ise-cert.crt
```

```
user@ubuntu22-desktop:~/Downloads$
```

```
sudo cp ise-cert.crt /usr/local/share/ca-certificates/
```

```
user@ubuntu22-desktop:~/Downloads$
```

```
sudo update-ca-certificates
```

```
Updating certificates in /etc/ssl/certs...
```

```
rehash: warning: skipping ca-certificates.crt,it does not contain exactly one certificate or CRL
```

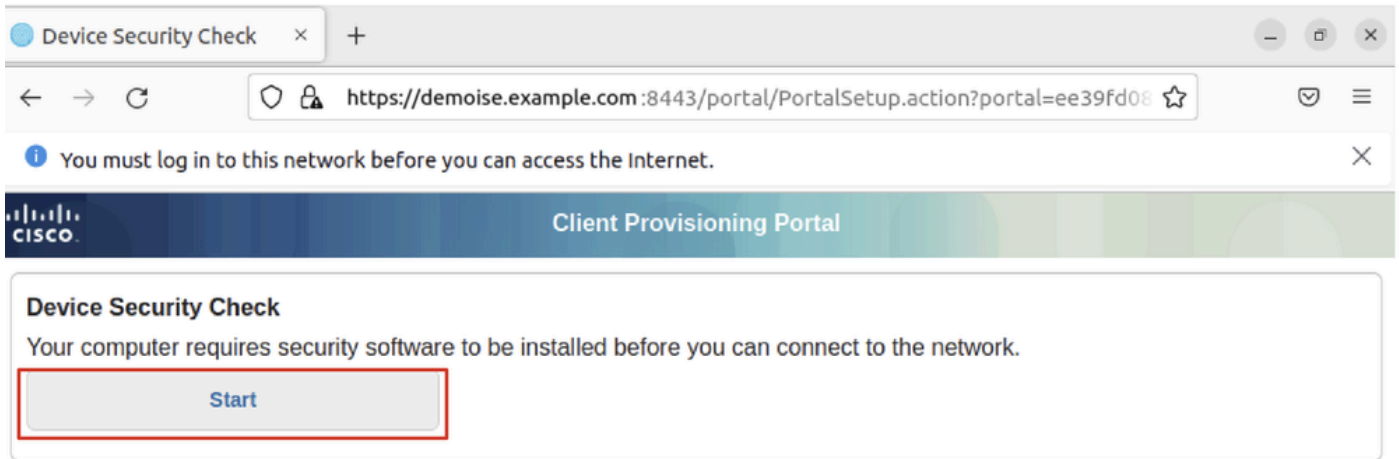
```
1 added
```

```
, 0 removed; done.
```

```
Running hooks in /etc/ca-certificates/update.d...
```

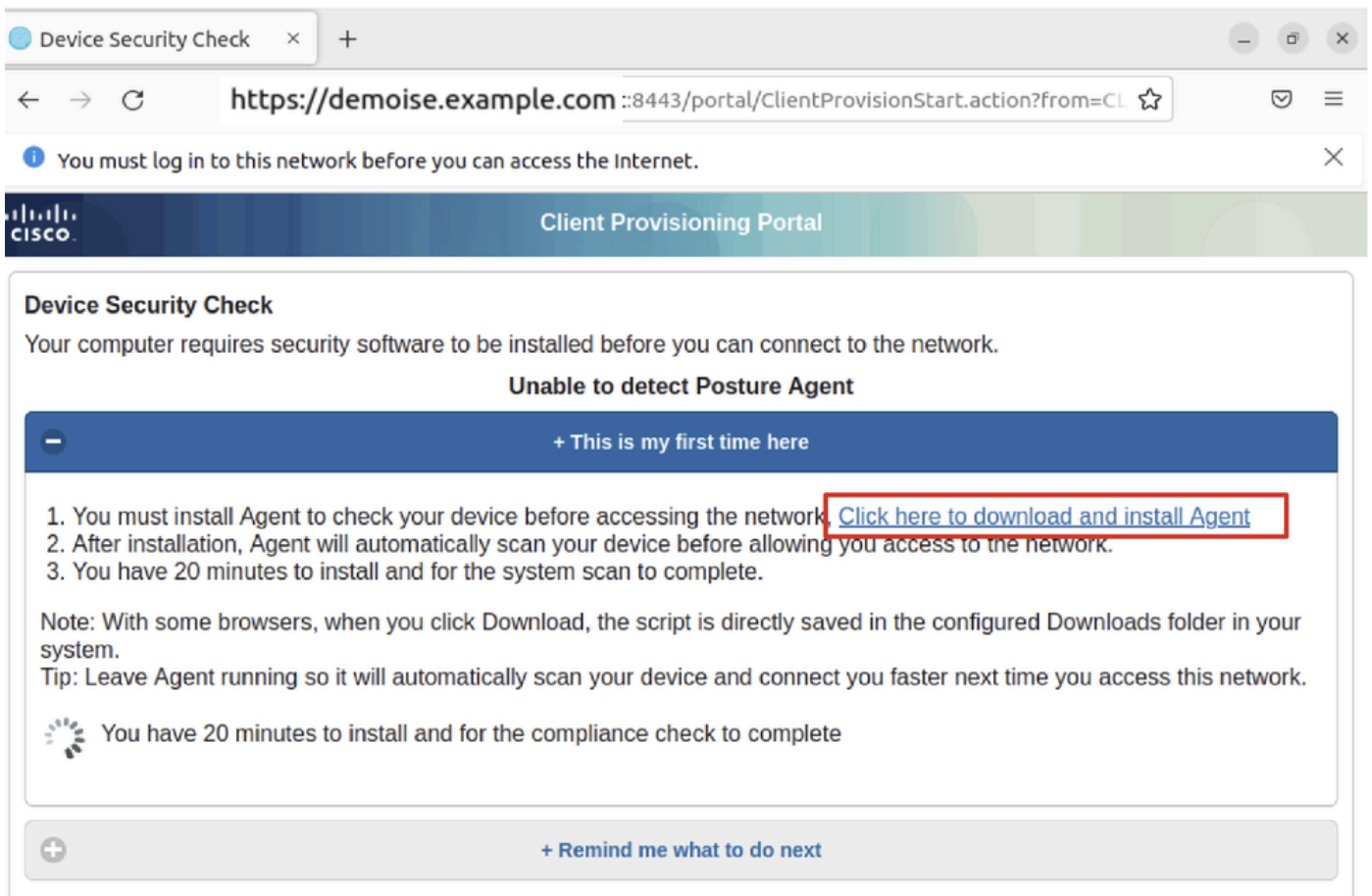
```
done.
```

步驟 31.在ISE CPP門戶上點選Start。



Ubuntu_Browser_CPP_Start

步驟32. Click here to download and install Agent.



Ubuntu_Browser_CPP_Download_Posture

步驟 33. 打開Ubuntu客戶端上的終端。導航到安裝終端安全評估模組的路徑home/user/Downloads/。

<#root>

```
user@ubuntu22-desktop:~/Downloads$ ls
```

```
cisco-secure-client-ise-network-assistant-linux64-5.1.3.62_demoise.example.com_8443_0NcLgcMURfyZmR6HoLmL
```

```
cisco-secure-client-linux64-5.1.3.62-core-vpn-webdeploy-k9.sh
demo-example-com.crt
ise-cert.crt
```

```
user@ubuntu22-desktop:~/Downloads$
```

```
chmod +x cisco-secure-client-ise-network-assistant-linux64-5.1.3.62_demoise.example.com_8443_0NcLgcMURfy
```

```
user@ubuntu22-desktop:~/Downloads$
```

```
user@ubuntu22-desktop:~/Downloads$
```

```
user@ubuntu22-desktop:~/Downloads$
```

```
./cisco-secure-client-ise-network-assistant-linux64-5.1.3.62_demoise.example.com_8443_0NcLgcMURfyZmR6Ho
```

Cisco Network Setup Assistant

(c) 2022-2024 Cisco Systems, Inc. Cisco, Cisco Systems and Cisco Systems logo are registered trademarks

Cisco ISE Network Setup Assistant started. Version - 5.1.3.62

Trusted and Secure Connection

You are connected to

demoise.example.com

whose identity has been certified. Your connection to this website is encrypted.

Downloading Cisco Secure Client...

Downloading remote package...

Running Cisco Secure Client - Downloader...

Installation is completed.

步驟 34.在Ubuntu客戶端UI上，退出Cisco Secure Client並重新打開它。ISE終端安全評估模組安裝並成功運行。



Ubuntu_Secure_Client_ISE_Posture_Installed

步驟 35. 打開Ubuntu客戶端上的終端。導航到路徑home/user/Desktop (這是您尋找快取缺失可以使用的隱藏命令)，然後建立一個test.txt檔案以滿足ISE上配置的檔案條件。

```
<#root>
```

```
user@ubuntu22-desktop:~$
```

```
cd Desktop/
```

```
user@ubuntu22-desktop:~/Desktop$
```

```
echo test > test.txt
```

驗證

使用本節內容，確認您的組態是否正常運作。

步驟 1.將VPN連線到Ubuntu客戶端上的demo.example.com。

The screenshot displays the Cisco Secure Client application window. The title bar reads "Cisco Secure Client". The main menu includes "AnyConnect VPN", "Statistics", "ISE Posture", and "About". The "ISE Posture" option is highlighted with a red box. Below the menu is the Cisco logo. The configuration section includes a "Connect to:" field with "demo.example.com" entered, a "Group:" dropdown menu set to "posture_vpn", a "Username:" field with "isetest", and a "Password:" field with masked characters. A "Disconnect" button is located below the configuration fields. At the bottom, a status bar shows "Connected to demo.example.com." highlighted with a red box.

驗證_Ubuntu_安全_客戶端_已連線

步驟 2.檢查Ubuntu客戶端上的ISE終端安全評估狀態。



Network access allowed.



Verify_Ubuntu_Secure_Client_Compliance

步驟 3. 檢查ISE上的Radius Live Log。 導航到Operations > RADIUS Live Log。

Identity Services Engine Operations / RADIUS

Live Logs Live Sessions

Misconfigured Supplicants 0 Misconfigured Network Devices 0 RADIUS Drops 0 Client Stopped Responding 0 Repeat Counter 0

Refresh Never Show Latest 20 records Within Last 24 hours

Reset Repeat Counts Export To

Time	Status	Details	Identity	Endpoint ID	Endpoint Profile	Posture Status	Authentication Policy	Authorization Policy
			Identity	Endpoint ID	Endpoint Profile	Posture Status	Authentication Policy	Authorization Policy
May 29, 2024 09:08:48.798 PM			isetest	52:54:00:17:6B:FA	Ubuntu-Workstation	Compliant	Firewall Posture >> Default	Firewall Posture >> Compliant
May 29, 2024 09:08:48.798 PM				52:54:00:17:6B:FA		Compliant	Firewall Posture	Firewall Posture >> Compliant
May 29, 2024 09:08:13.570 PM			isetest	52:54:00:17:6B:FA	Ubuntu-Workstation	Pending	Firewall Posture >> Default	Firewall Posture >> Unknown

步驟 4.透過SSH或主控台導覽至FTD CLI。

```
<#root>
```

```
>
```

```
>
```

```
system support diagnostic-cli
```

```
Attaching to Diagnostic CLI ... Press 'Ctrl+a then d' to detach.  
Type help or '?' for a list of available commands.
```

```
ftdv741>
```

```
enable
```

```
Password:
```

```
ftdv741#
```

```
ftdv741#
```

```
show vpn-sessiondb detail anyconnect
```

```
Session Type: AnyConnect Detailed
```

```
Username : isetest Index : 33
```

```
Assigned IP : 192.168.6.30 Public IP : 192.168.10.13
```

```
Protocol : AnyConnect-Parent SSL-Tunnel DTLS-Tunnel
```

```
License : AnyConnect Premium
```

```
Encryption : AnyConnect-Parent: (1)none SSL-Tunnel: (1)AES-GCM-128 DTLS-Tunnel: (1)AES-GCM-256
```

```
Hashing : AnyConnect-Parent: (1)none SSL-Tunnel: (1)SHA256 DTLS-Tunnel: (1)SHA384
```

```
Bytes Tx : 51596 Bytes Rx : 17606
```

```
Pkts Tx : 107 Pkts Rx : 136
```

```
Pkts Tx Drop : 0 Pkts Rx Drop : 0
```

```
Group Policy : posture_gp Tunnel Group : posture_vpn
```

```
Login Time : 14:02:25 UTC Fri May 31 2024
```

```
Duration : 0h:00m:55s
```

```
Inactivity : 0h:00m:00s
```

```
VLAN Mapping : N/A VLAN : none
```

```
Audt Sess ID : cb007182000210006659d871
```

```
Security Grp : none Tunnel Zone : 0
```

```
AnyConnect-Parent Tunnels: 1
```

```
SSL-Tunnel Tunnels: 1
```

```
DTLS-Tunnel Tunnels: 1
```

```
AnyConnect-Parent:
```

```
Tunnel ID : 33.1
```

```
Public IP : 192.168.10.13
```

```
Encryption : none Hashing : none
```

```
TCP Src Port : 59180 TCP Dst Port : 443
```

```
Auth Mode : userPassword
```

```
Idle Time Out: 30 Minutes Idle TO Left : 29 Minutes
```

```
Client OS : linux-64
```

```
Client OS Ver: Ubuntu 22.04 LTS 22.04 (Jammy Jellyfish)
```

Client Type : AnyConnect

Client Ver : Cisco AnyConnect VPN Agent for Linux 5.1.3.62

Bytes Tx : 6364 Bytes Rx : 0
Pkts Tx : 1 Pkts Rx : 0
Pkts Tx Drop : 0 Pkts Rx Drop : 0

SSL-Tunnel:

Tunnel ID : 33.2
Assigned IP :192.168.6.30 Public IP : 192.168.10.13
Encryption : AES-GCM-128 Hashing : SHA256
Ciphersuite : TLS_AES_128_GCM_SHA256
Encapsulation: TLSv1.3 TCP Src Port : 59182
TCP Dst Port : 443 Auth Mode : userPassword
Idle Time Out: 30 Minutes Idle TO Left : 29 Minutes
Client OS : Linux_64
Client Type : SSL VPN Client
Client Ver : Cisco AnyConnect VPN Agent for Linux 5.1.3.62
Bytes Tx : 6364 Bytes Rx : 498
Pkts Tx : 1 Pkts Rx : 6
Pkts Tx Drop : 0 Pkts Rx Drop : 0

Filter Name : #ACSACL#-IP-PERMIT_ALL_IPV4_TRAFFIC-57f6b0d3

DTLS-Tunnel:

Tunnel ID : 33.3
Assigned IP :192.168.6.30 Public IP : 192.168.10.13
Encryption : AES-GCM-256 Hashing : SHA384
Ciphersuite : ECDHE-ECDSA-AES256-GCM-SHA384
Encapsulation: DTLSv1.2 UDP Src Port : 56078
UDP Dst Port : 443 Auth Mode : userPassword
Idle Time Out: 30 Minutes Idle TO Left : 29 Minutes
Client OS : Linux_64
Client Type : DTLS VPN Client
Client Ver : Cisco AnyConnect VPN Agent for Linux 5.1.3.62
Bytes Tx : 38868 Bytes Rx : 17108
Pkts Tx : 105 Pkts Rx : 130
Pkts Tx Drop : 0 Pkts Rx Drop : 0

Filter Name : #ACSACL#-IP-PERMIT_ALL_IPV4_TRAFFIC-57f6b0d3

疑難排解

本節提供的資訊可用於對組態進行疑難排解。

對於終端安全評估流程和思科安全客戶端和ISE故障排除，請檢查CCO [文檔ISE終端安全評估樣式比較2.2之前和之後的比較](#)以及 [ISE會話管理和終端安全評估故障排除](#)。

相關資訊

- [思科身分辨識服務引擎網路元件相容性，版本3.3](#)

- [思科身份服務引擎管理員指南3.3版](#)
- [思科技術支援與下載](#)

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）。