

使用ISE 3.3配置Linux VPN终端安全评估

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简介

本文档介绍如何使用身份服务引擎(ISE)和Firepower威胁防御(FTD)配置Linux VPN状态。

先决条件

要求

Cisco 建议您了解以下主题：

- 思科安全客户端
- 基于Firepower威胁防御(FTD)的远程访问VPN
- 身份服务引擎 (ISE)

使用的组件

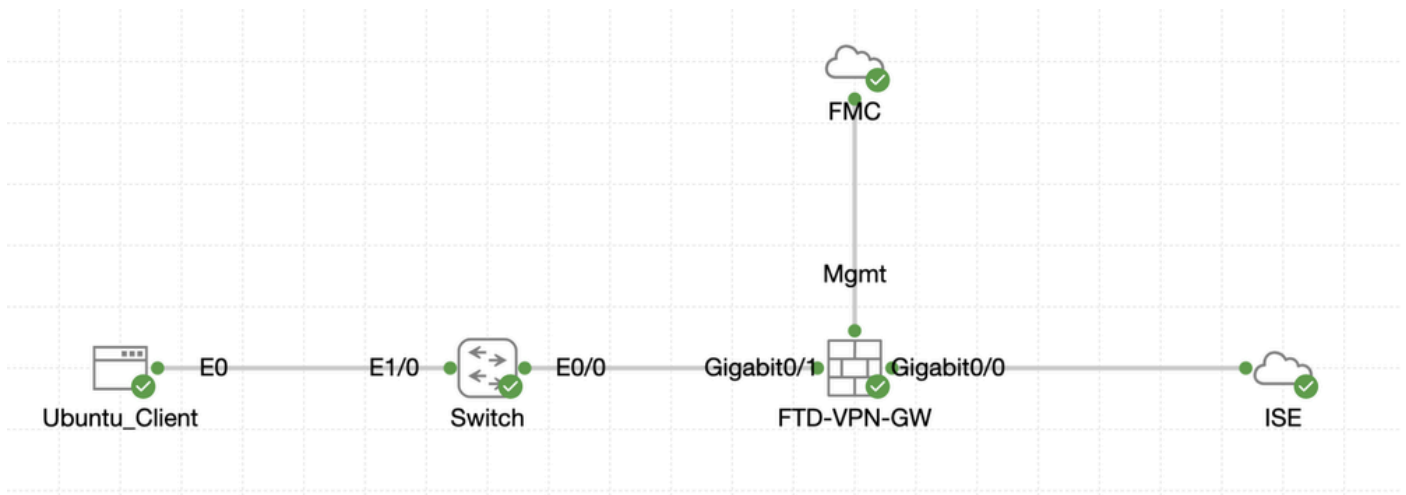
本文档中的信息基于以下软件版本：

- Ubuntu 22.04
- 思科安全客户端5.1.3.62
- 思科Firepower威胁防御(FTD) 7.4.1
- 思科Firepower管理中心(FMC) 7.4.1
- 思科身份服务引擎(ISE) 3.3

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您的网络处于活动状态，请确保您了解所有命令的潜在影响。

配置

网络图



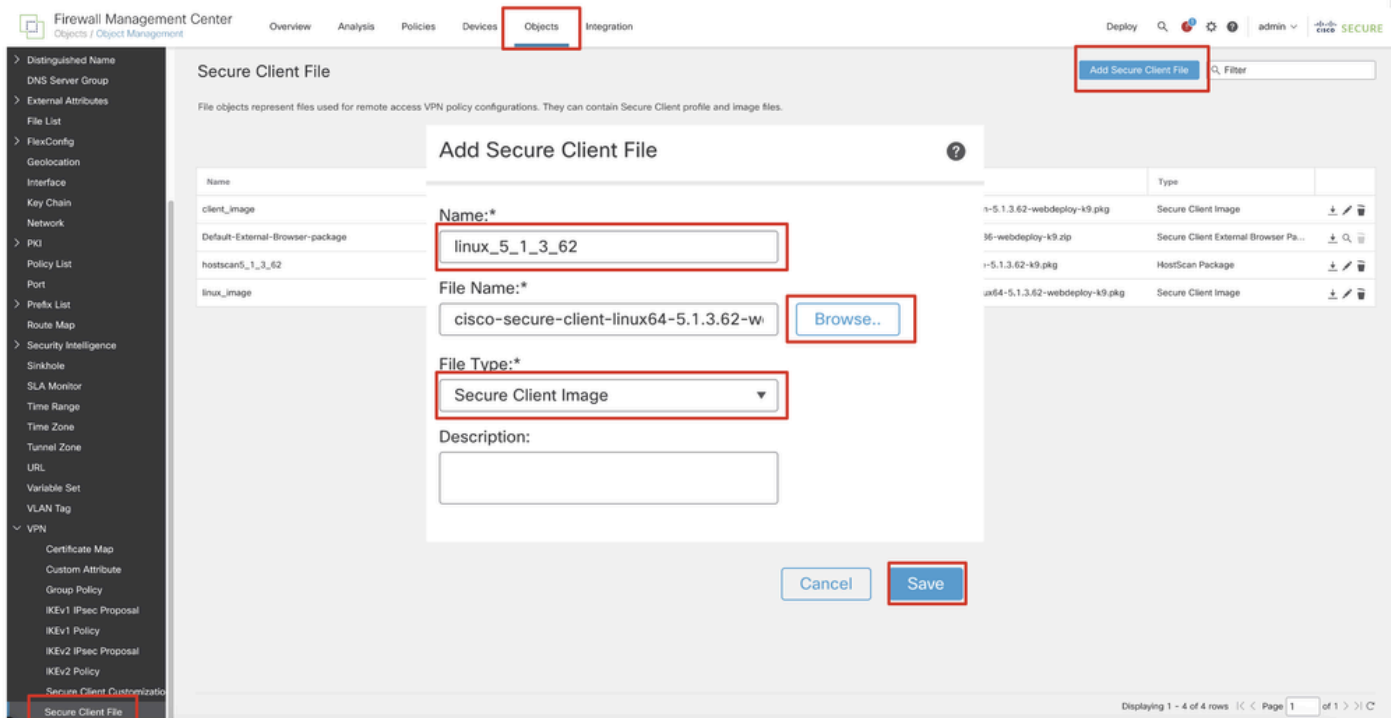
拓扑

FMC/FTD上的配置

步骤1:客户端、FTD、FMC和ISE之间的连接已成功配置。因为enroll.cisco.com用于执行重定向探测的终端(有关详细信息，请参阅终端安全评估流量CCO 文档[ISE终端安全评估样式比较以前版本和之后2.2](#))。确保正确配置了FTD上通往enroll.cisco.com的流量的路由。

第二步：从[Cisco软件下载](#)下载软件包名称cisco-secure-client-linux64-5.1.3.62-webdeploy-k9.pkg，通过确认下载文件的md5校验和与Cisco软件下载页相同，确保文件在下载后一切正常。

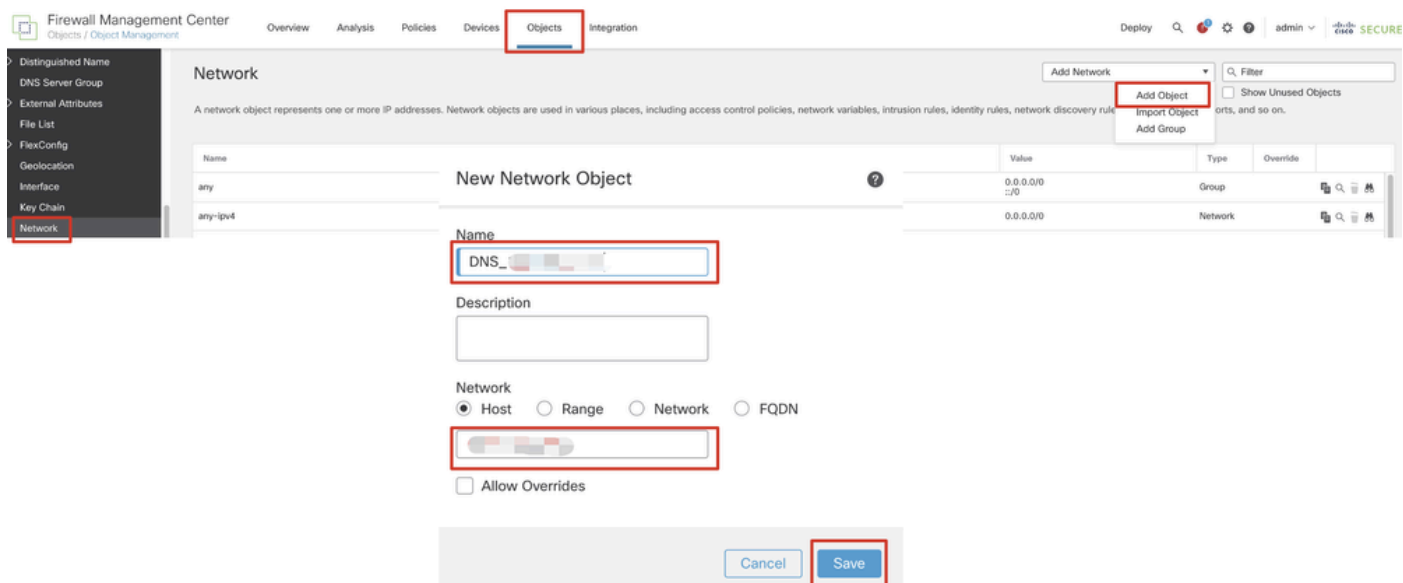
第三步：导航到Objects > Object Management > VPN > Secure Client File。单击Add Secure Client File、提供名称、浏览File Name以选择cisco-secure-client-linux64-5.1.3.62-webdeploy-k9.pkg、在File Type下拉列表中选择Secure Client Image。?? 然后单击.Save



FMC_Upload_Secure_Client_Image

第四步：导航到Objects > Object Management > Network。

步骤 4.1为DNS服务器创建对象。单击Add Object，提供名称和可用的DNS IP地址。单击。Save

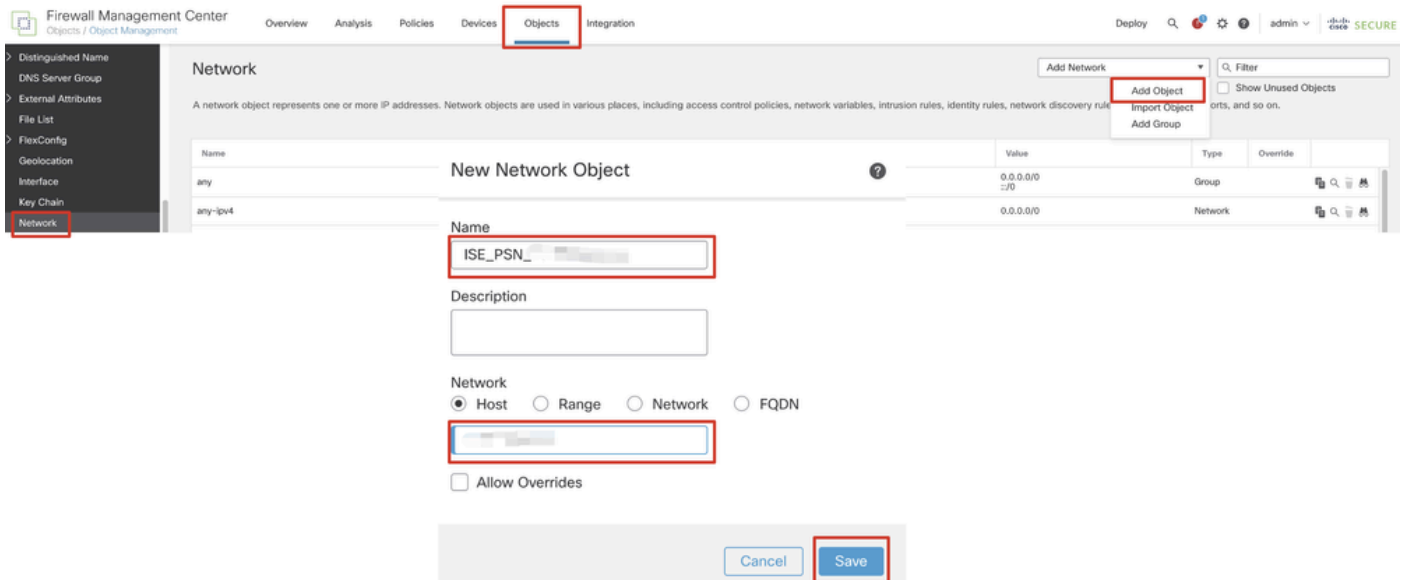


FMC_Add_Object_DNS



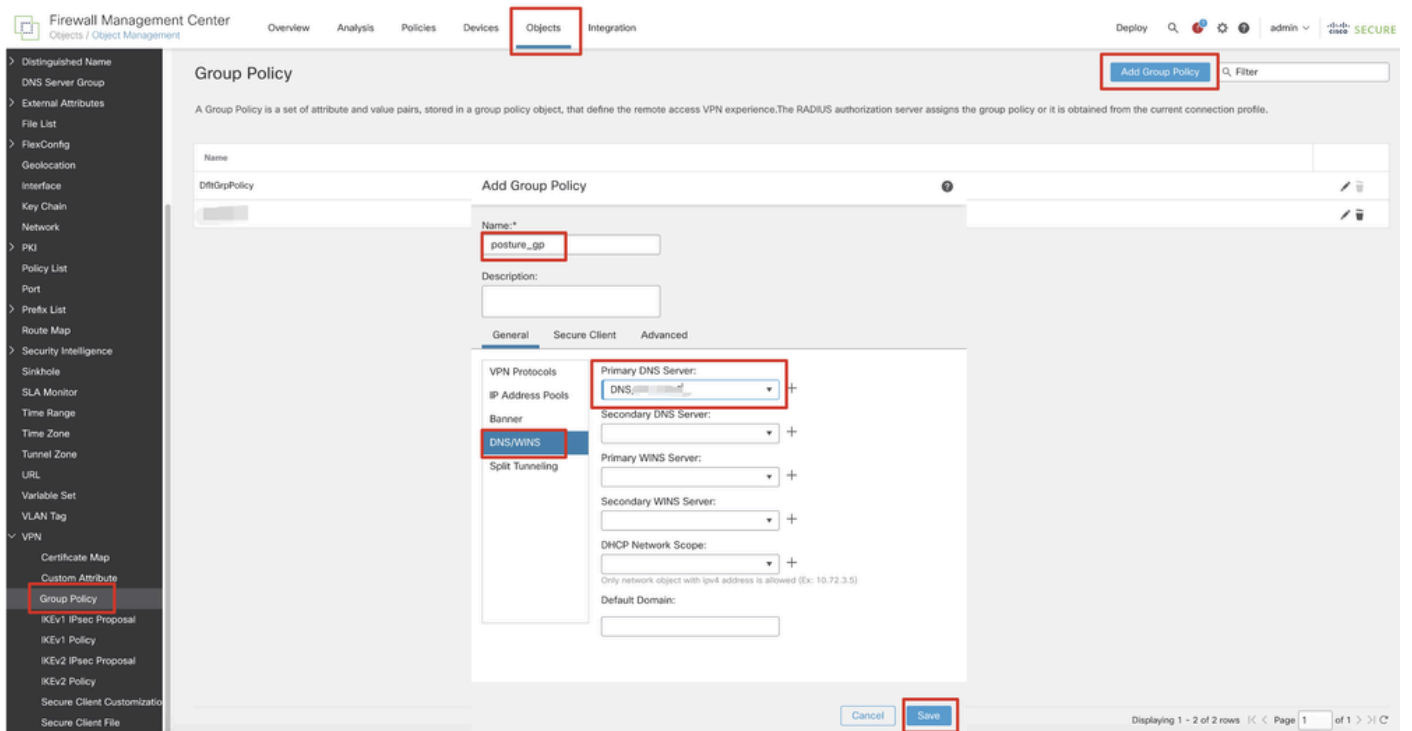
注意：此处配置的DNS服务器将用于VPN用户。

步骤 4.2为ISE PSN创建对象。单击Add Object，提供名称和可用的ISE PSN IP地址。单击。Save



FMC_Add_Object_ISE

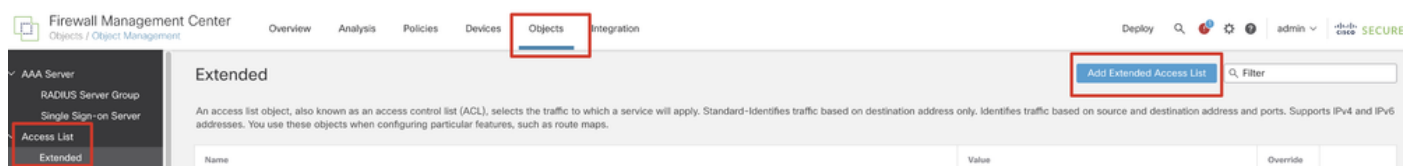
第五步：导航到Objects > Object Management > VPN > Group Policy。单击。Add Group Policy单击DNS/WINS，然后在Primary DNS Server中选择DNS服务器的对象。??然后单击.Save



FMC_Add_Group_Policy

注意：确保VPN组策略中使用的DNS服务器可以解析ISE客户端调配门户FQDN和enroll.cisco.com。

第六步：导航到Objects > Object Management > Access List > Extended。单击。Add Extended Access List



FMC_Add_Redirect_ACL

步骤 6.1提供重定向ACL的名称。此名称必须与ISE授权配置文件中的名称相同。单击。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

步骤 6.2 阻止DNS流量、发往ISE PSN IP地址的流量以及补救服务器，以将其排除在重定向范围之外。允许其余流量。这将触发重定向。单击。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

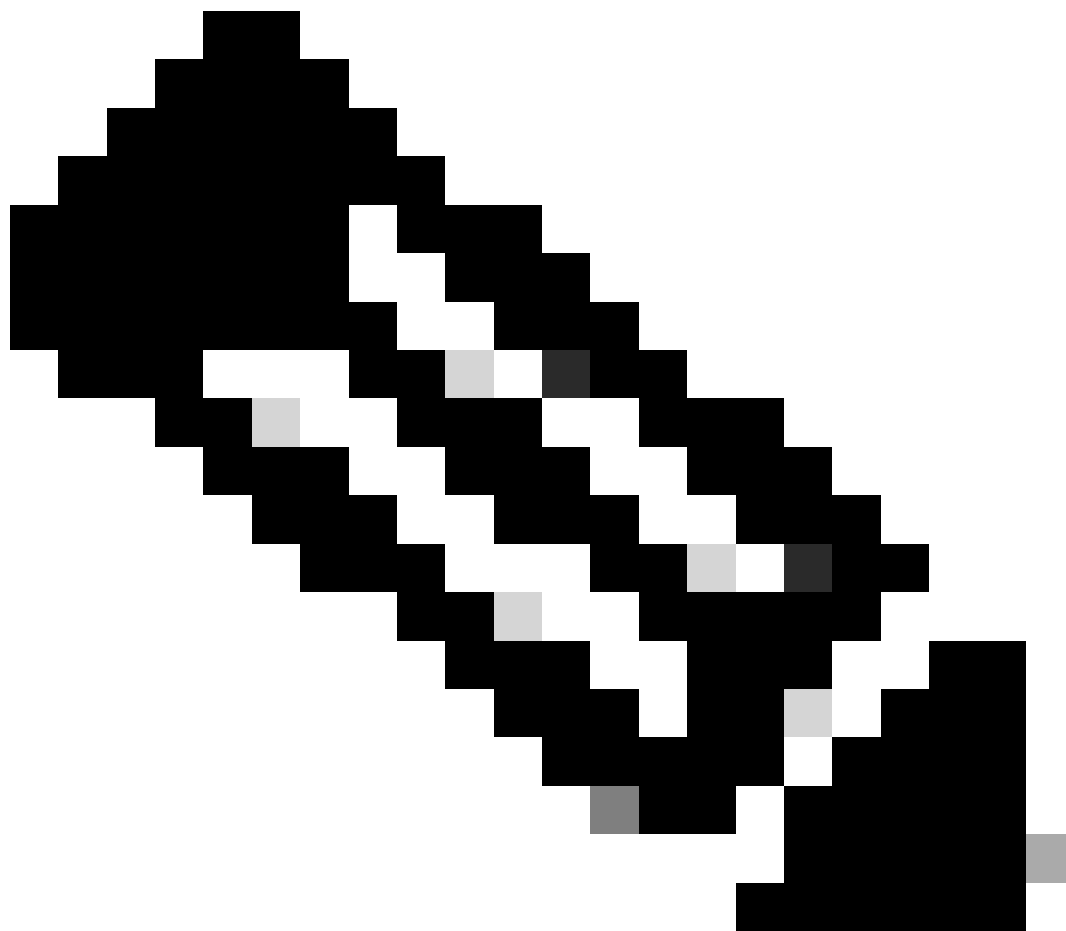
Name:

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	 

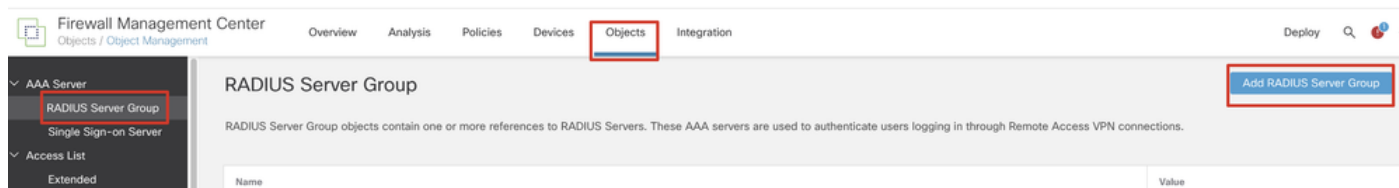
Allow Overrides

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。

步骤 7. 导航到Objects > Object Management > RADIUS Server Group。单击。Add RADIUS Server Group



FMC_Add_New_Radius_Server_Group

步骤 7.1提供名称、检查Enable authorize only、检查Enable interim account update、检查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

步骤 7.2 单击 Plus 图标添加新的 radius 服务器。提供 ISE PSNIP Address/Hostname, Key。选择 specific interface 进行连接。选择 Redirect ACL。然后，单击 Save 保存新的 radius 服务器。然后，再次单击 Save，保存新的 RADIUS 服务器组。

The screenshot shows two panels in the FMC configuration interface. The left panel is titled "Add RADIUS Server Group" and contains several checkboxes: "Enable authorize only" (checked), "Enable interim account update" (checked), "Enable dynamic authorization" (checked), and "Merge Downloadable ACL with Cisco AV Pair ACL" (unchecked). Below these are input fields for "Interval" (24) and "Port" (1700). A "RADIUS Servers" table is empty, with a "+" button highlighted by a red box. The right panel is titled "New RADIUS Server" and contains fields for "IP Address/Hostname" (highlighted with a red box), "Authentication Port" (1812), "Key" (highlighted with a red box), "Confirm Key" (highlighted with a red box), "Accounting Port" (1813), and "Timeout" (10). Under "Connect using:", the "Specific Interface" radio button is selected, and the "inside_zone" dropdown is highlighted with a red box. The "Redirect ACL" dropdown is set to "redirect" and is also highlighted with a red box. Both panels have "Cancel" and "Save" buttons at the bottom.

FMC_Add_New_Radius_Server_Group_Part_2

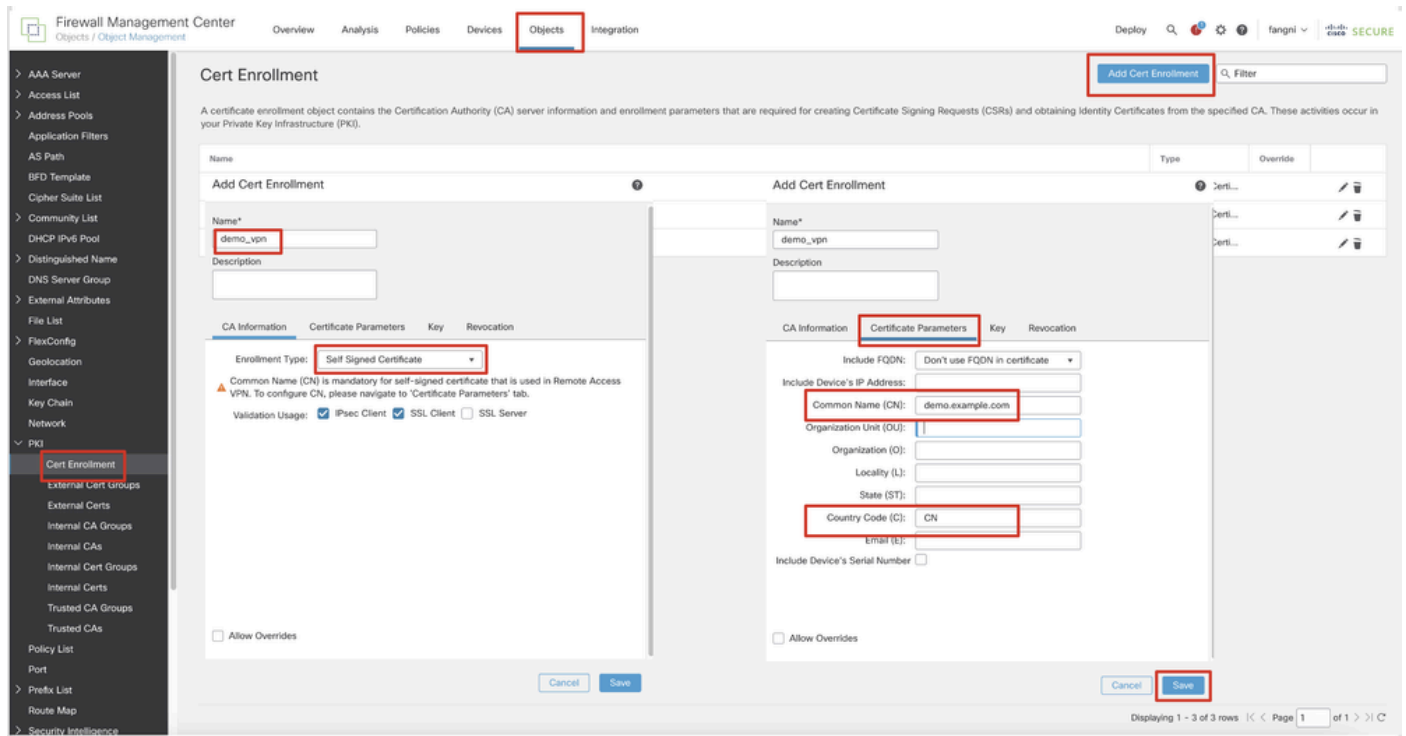
步骤 8 导航到 Objects > Object Management > Address Pools > IPv4 Pools。单击 Add IPv4 Pools 并提供 Name, IPv4 Address Range 和 Mask。?? 然后单击 .Save

The screenshot shows the "IPv4 Pools" configuration page in the FMC. The left sidebar has "IPv4 Pools" selected. The main area shows a table with one entry: "posture_pool_97_0". A red box highlights the "Add IPv4 Pools" button. Below the table is the "Add IPv4 Pool" form. The "Name" field is set to "posture_pool" (highlighted with a red box). The "IPv4 Address Range" field is set to "192.168.6.30-192.168.6.100" (highlighted with a red box). The "Mask" field is set to "255.255.255.0" (highlighted with a red box). The "Allow Overrides" checkbox is checked. At the bottom, there are "Cancel" and "Save" buttons.

FMC_Add_Newpool

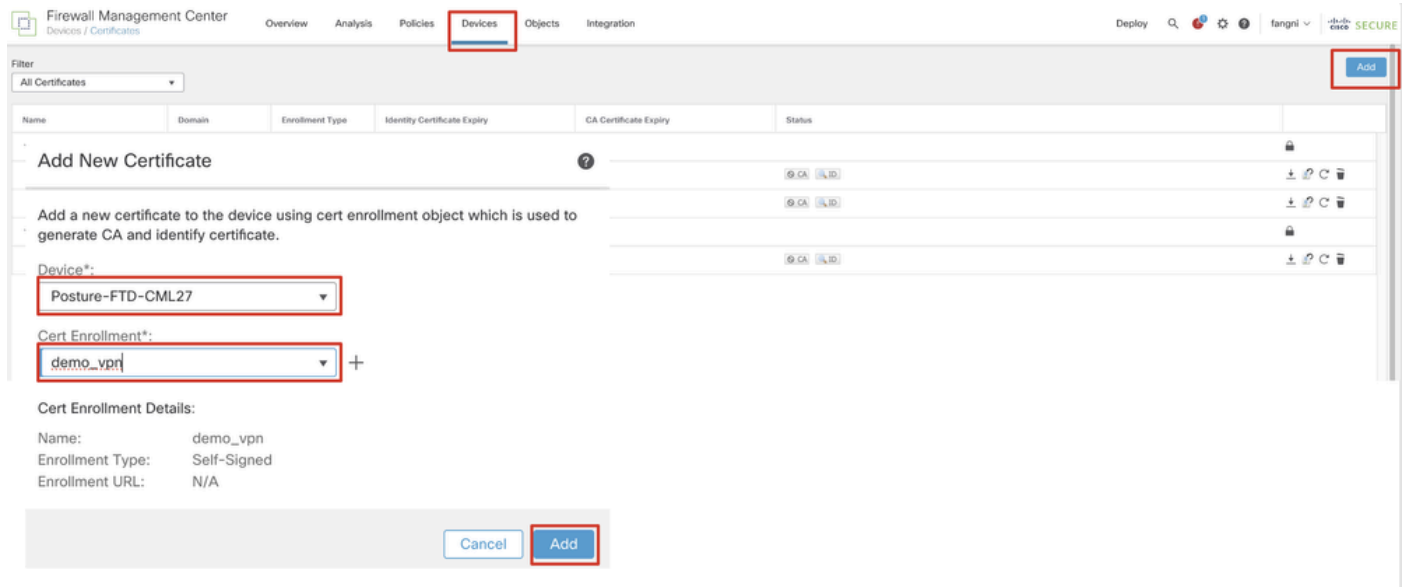
步骤 9 导航到 Certificate Objects > Object Management > PKI > Cert Enrollment。单击 Add Cert Enrollment、提供一个名称，然后在

Enrollment Type中选择Self Signed Certificate。单击Certificate Parameters选项卡并提供Common Name和Country Code。??然后单击.Save



FMC_Add_New_Cert_Enroll

步骤 10 导航到Devices > Certificates。点击Add，在Device下选择FTD名称，在Cert Enrollment下选择以前配置的注册。单击。Add



FMC_Add_New_Cert_To_FTD

步骤 11 导航到Devices > VPN > Remote Access。单击。Add

步骤 11.1提供名称，并将FTD添加到Selected Devices。单击。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

步骤 11.2在Authentication Server, Authorization Server, Accounting Server中选择以前配置的radius服务器组。向下滚动页面。

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)

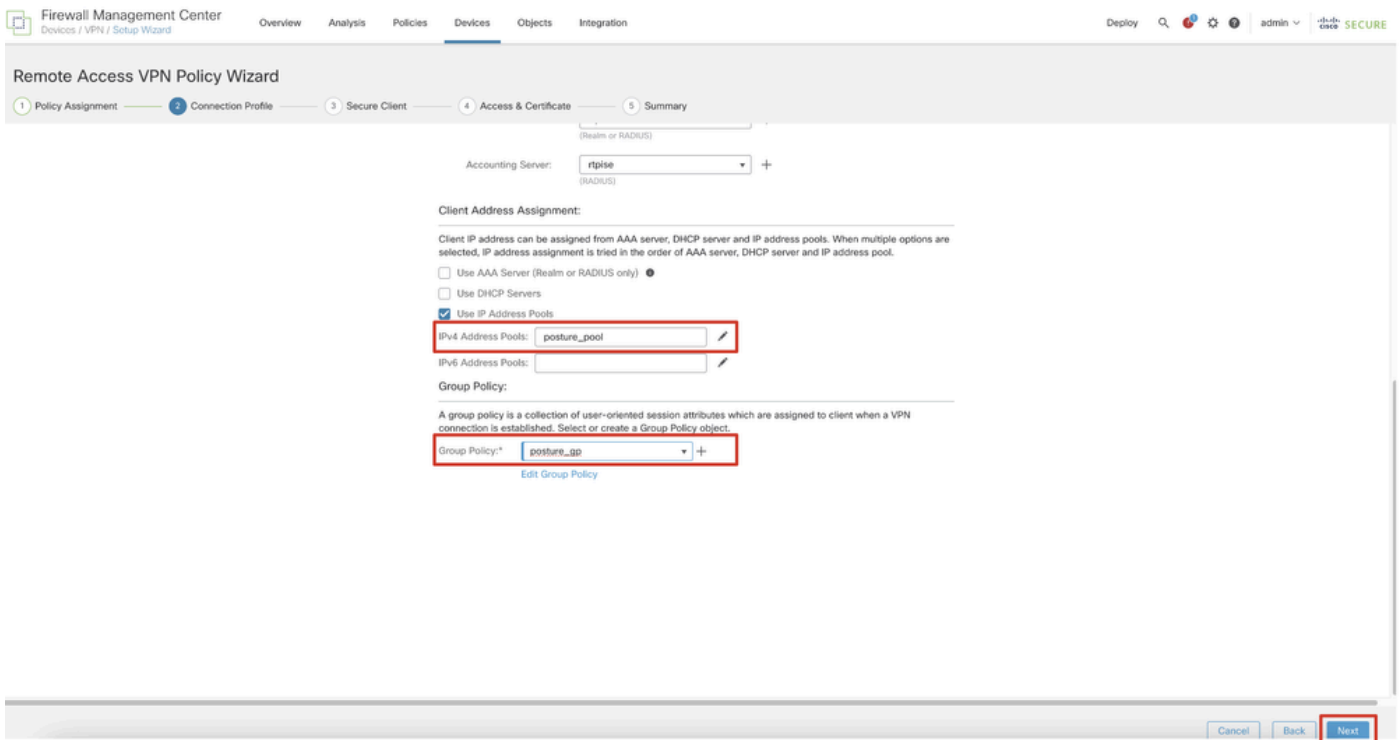
Client Address Assignment:

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

Cancel Back **Next**

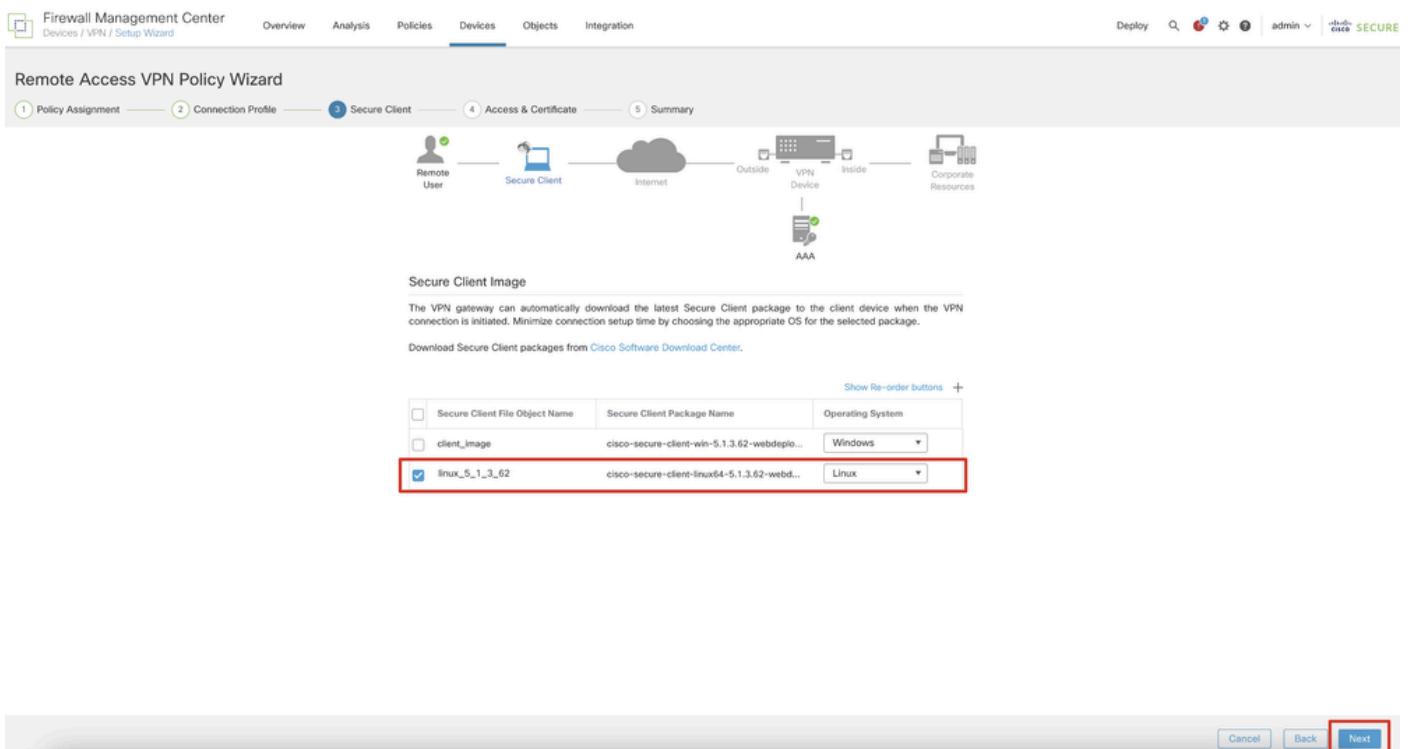
FMC_New_RAVPN_Wizard_2

步骤 11.3在IPv4 Address Pools中选择以前配置的池名称。在Group Policy中选择以前配置的组策略。单击Next。



FMC_New_RAVPN_Wizard_3

步骤 11.4选中Linux映像的复选框。单击。Next



FMC_New_RAVPN_Wizard_4

步骤 11.5选择VPN接口的接口。选择在第9步中在FTD上注册的证书注册。单击。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

步骤 11.6在摘要页面上再次确认相关信息。如果一切正常，请单击Finish。如果需要修改任何内容，请单击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-CM27
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.

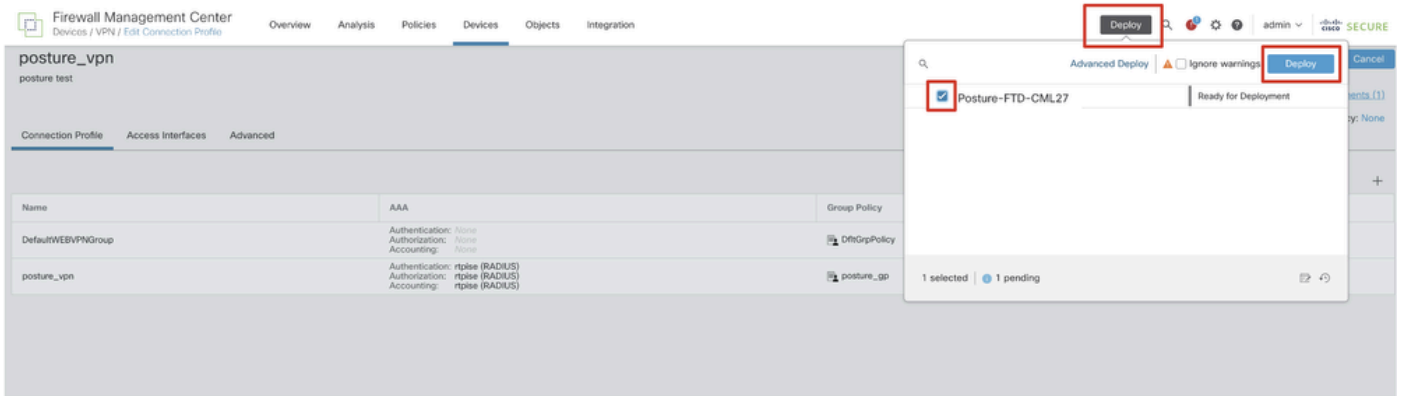
- Access Control Policy Update**
An Access Control rule must be defined to allow VPN traffic on all targeted devices.
- NAT Exemption**
If NAT is enabled on the targeted devices, you must define a NAT Policy to exempt VPN traffic.
- DNS Configuration**
To resolve hostname specified in AAA Servers or 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

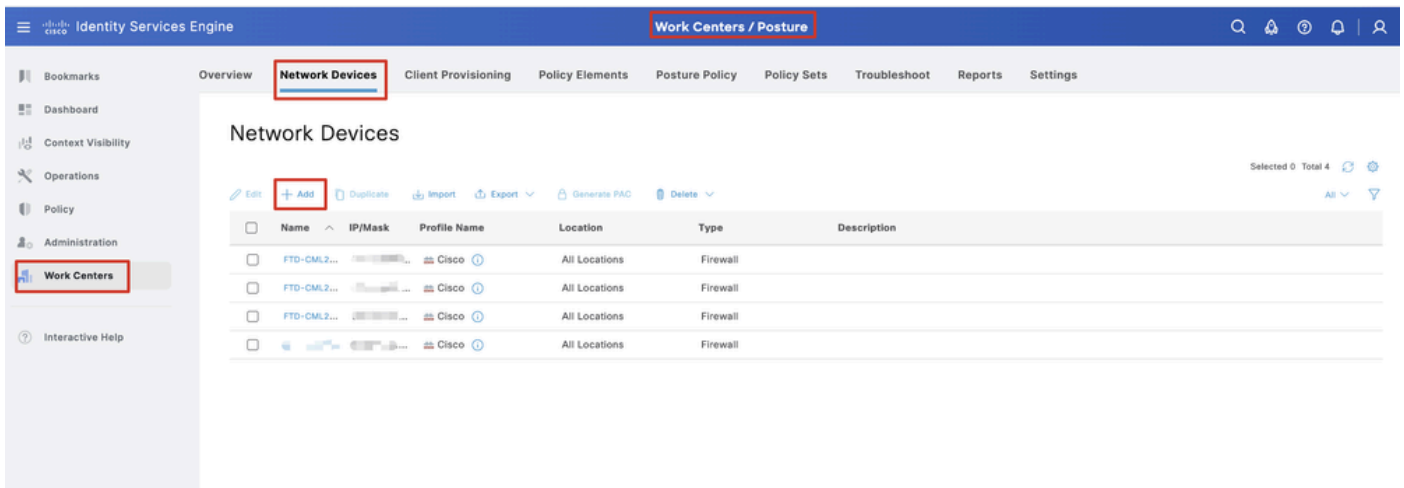
步骤 12将新配置部署到FTD以完成远程访问VPN配置。



FMC_Deploy_FTD

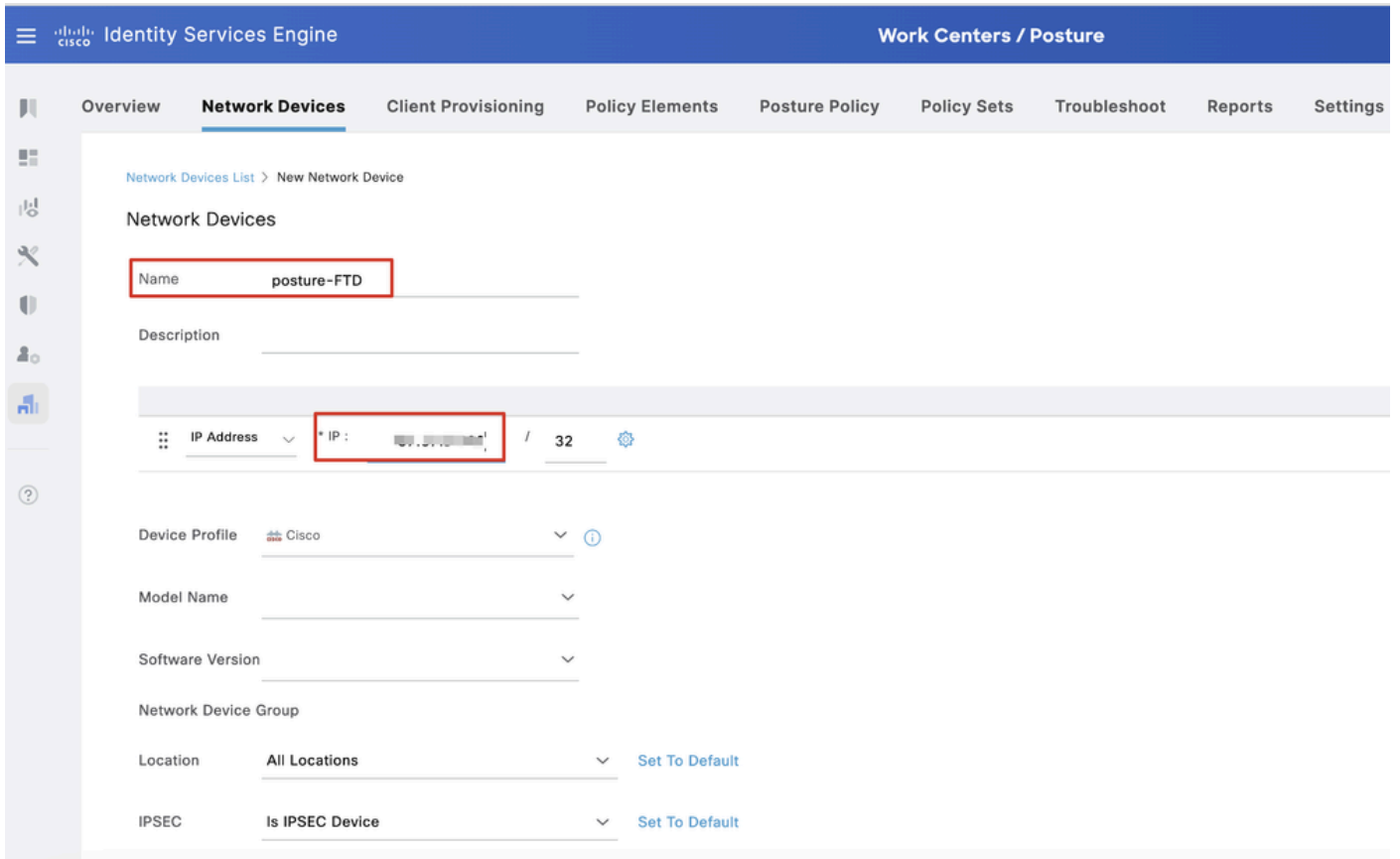
ISE上的配置

步骤 13 导航到Work Centers > Posture > Network Devices。单击。Add



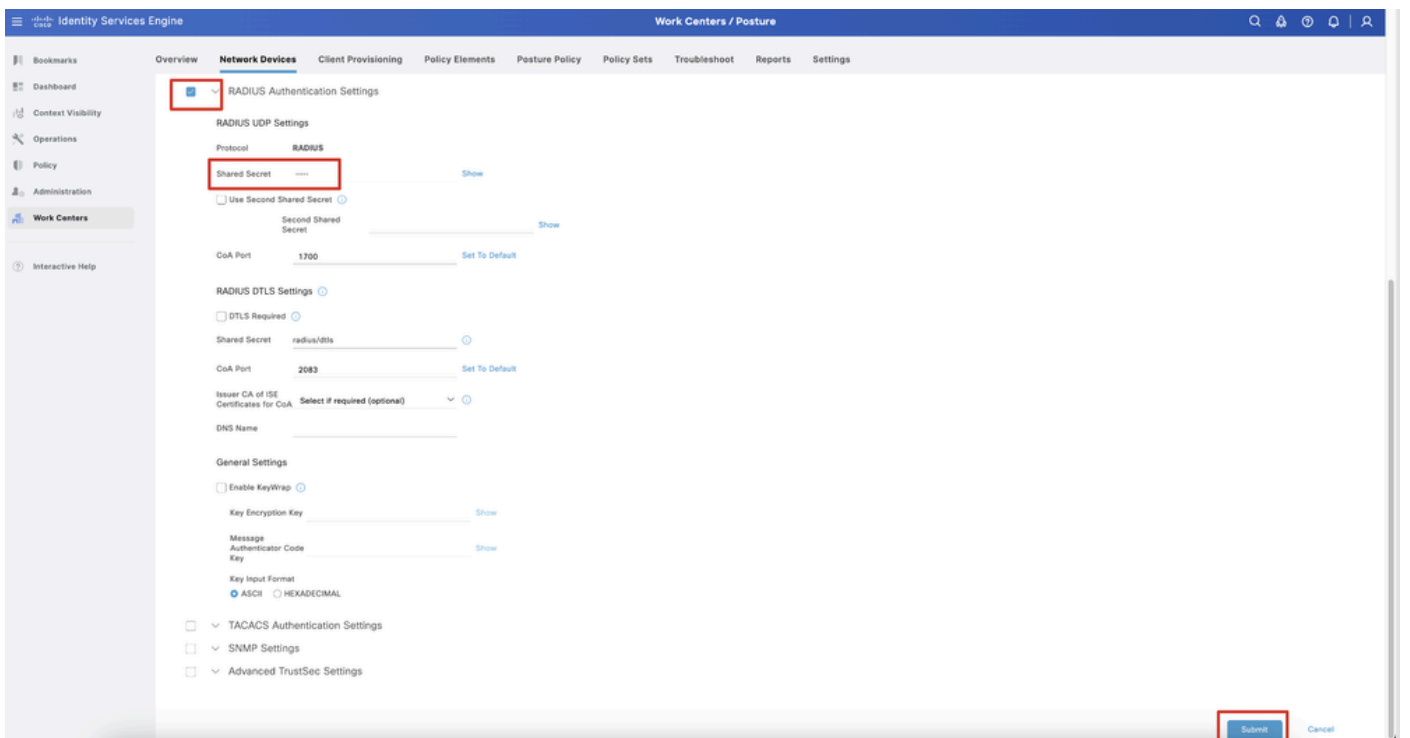
ISE_Add_New_Device

步骤 13.1提供Name, IP Address并向下滚动页面。



ISE_Add_New_Device_1

步骤 13.2选中RADIUS Authentication Settings复选框。提供Shared Secret。单击。Submit



ISE_Add_New_Device_2

步骤 14 从[Cisco软件下载](#)下载软件包名称cisco-secure-client-linux64-4.3.3139.0-isecompliance-webdeploy-k9.pkg，通过确认下载文件的md5校验和与Cisco软件下载页相同，来确保文件完好。已在步骤1中成功下载软件包名称cisco-secure-client-linux64-5.1.3.62-

webdeploy-k9.pkg。

步骤 15 导航到 Work Centers > Posture > Client Provisioning > Resources。单击。Add 选择 Agent resources from local disk

The screenshot shows the Identity Services Engine (ISE) interface. The top navigation bar includes 'Work Centers / Posture'. The left sidebar has 'Client Provisioning' selected, with 'Resources' highlighted. The main content area is titled 'Resources' and shows a table of agent resources. A dropdown menu is open under the '+ Add' button, with 'Agent resources from local disk' selected. The table lists various 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 Profile	Not Applic...	2016/10/07 04:01:12	Pre-configured
Native Supplicant Profile	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

步骤 15.1 选择 Cisco Provided Package 点击 Choose File 上传 cisco-secure-client-linux64-5.1.3.62-webdeploy-k9.pkg。单击。Submit

The screenshot shows the 'Agent Resources From Local Disk' upload form in the ISE interface. 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. Below the form, there is a table titled 'Agent Uploaded Resources' showing the uploaded file details. A 'Submit' button is highlighted at the bottom.

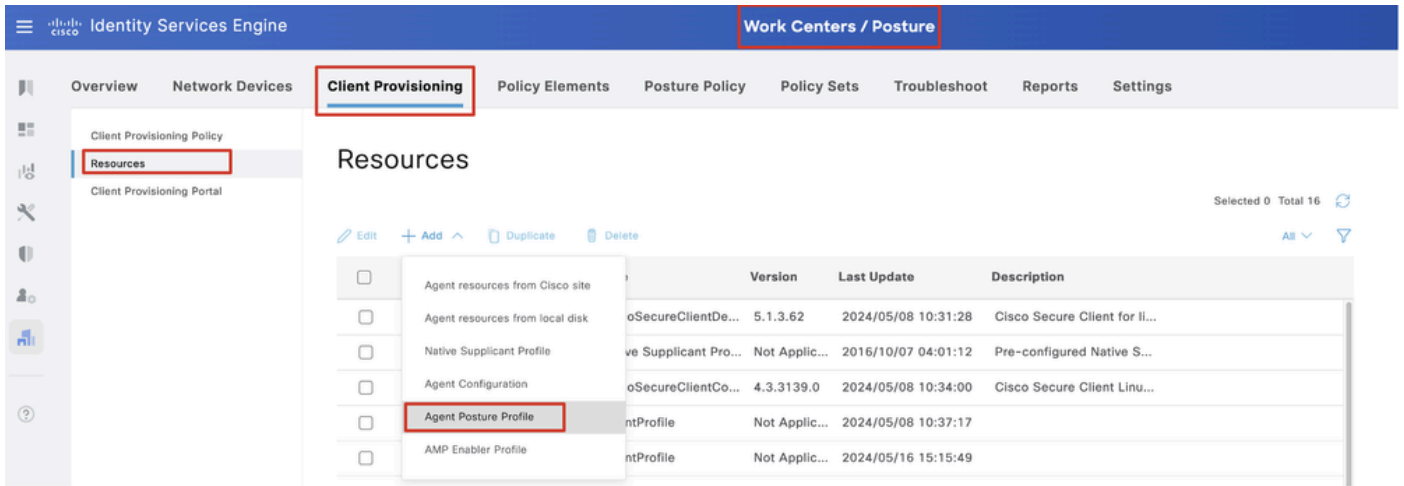
Name	Type	Version	Description
CiscoSecureClientDesktoLi...	CiscoSecureClientDe...	5.1.3.62	Cisco Secure Client for li...

ISE_Upload_Resources_1



注意：重复步骤14.上传cisco-secure-client-linux64-4.3.3139.0-isecompliance-webdeploy-k9.pkg。

步骤 16 导航到Work Centers > Posture > Client Provisioning > Resources。单击。Add选择.Agent Posture Profile

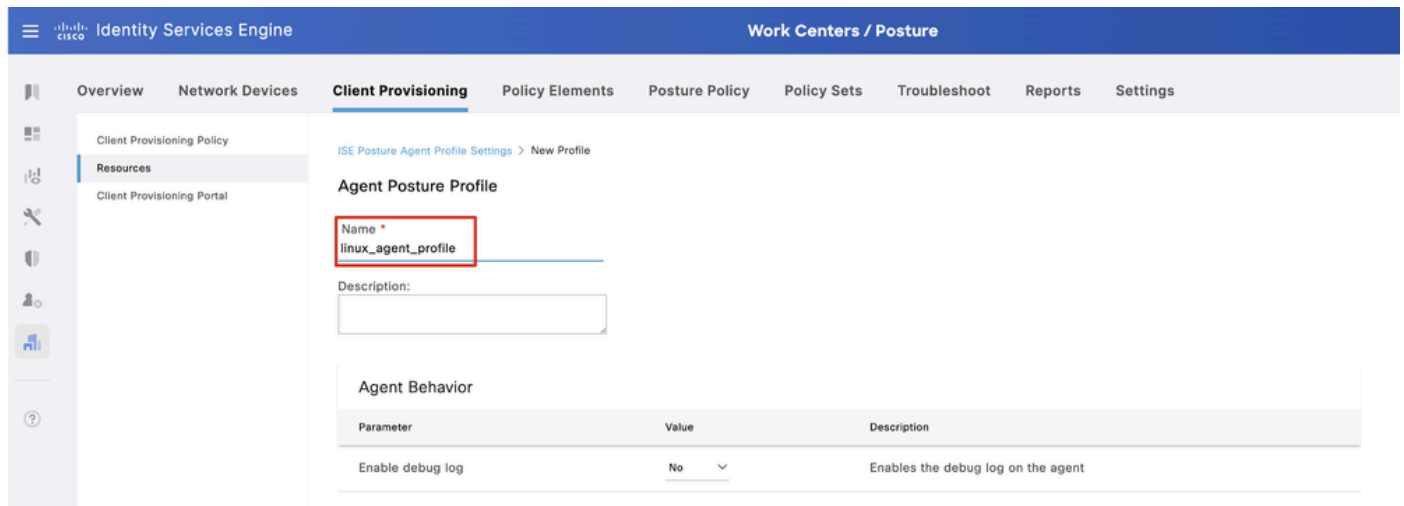


ISE_Add_Agent_Posture_Profile

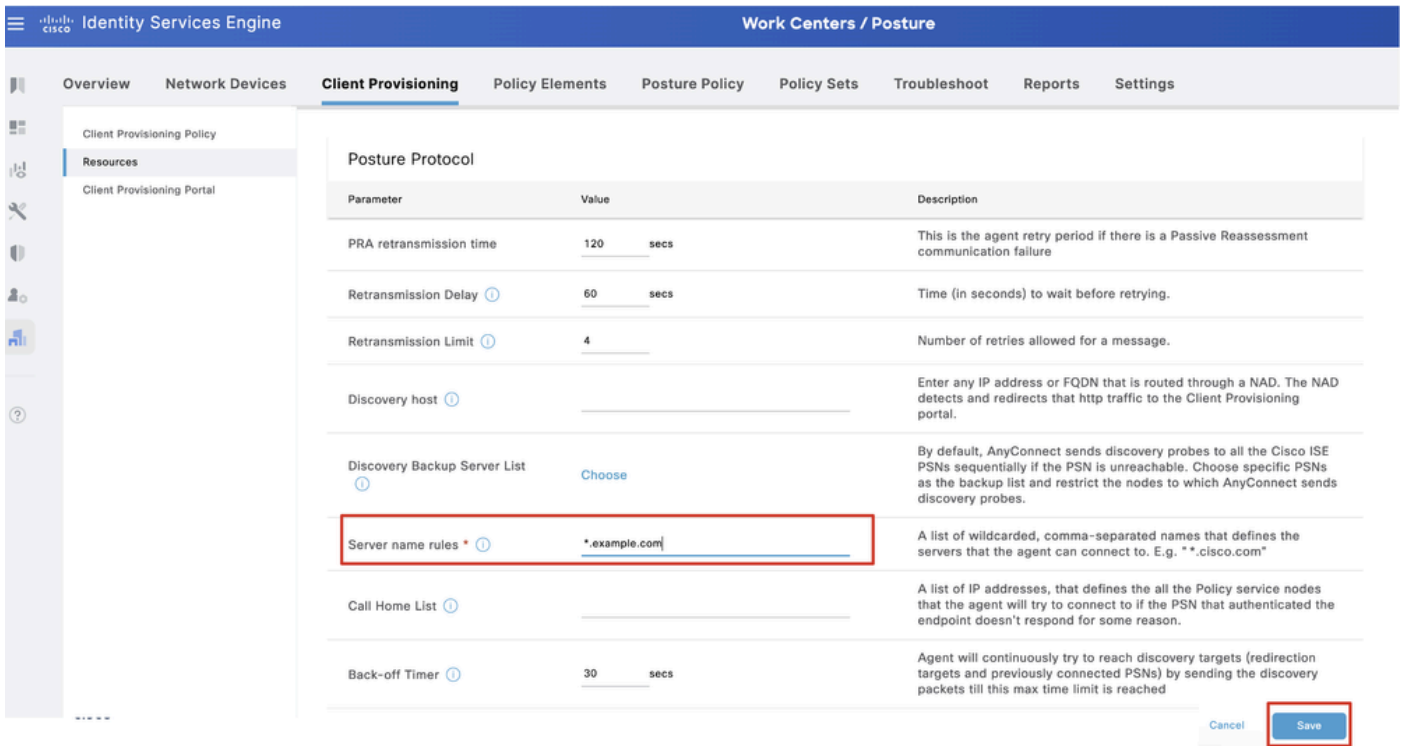
步骤 16.1提供Name, Server name rules , 并将剩余部分保留为默认值。单击。 Save

名称 : linux_agent_profile

服务器名称规则 : *.example.com

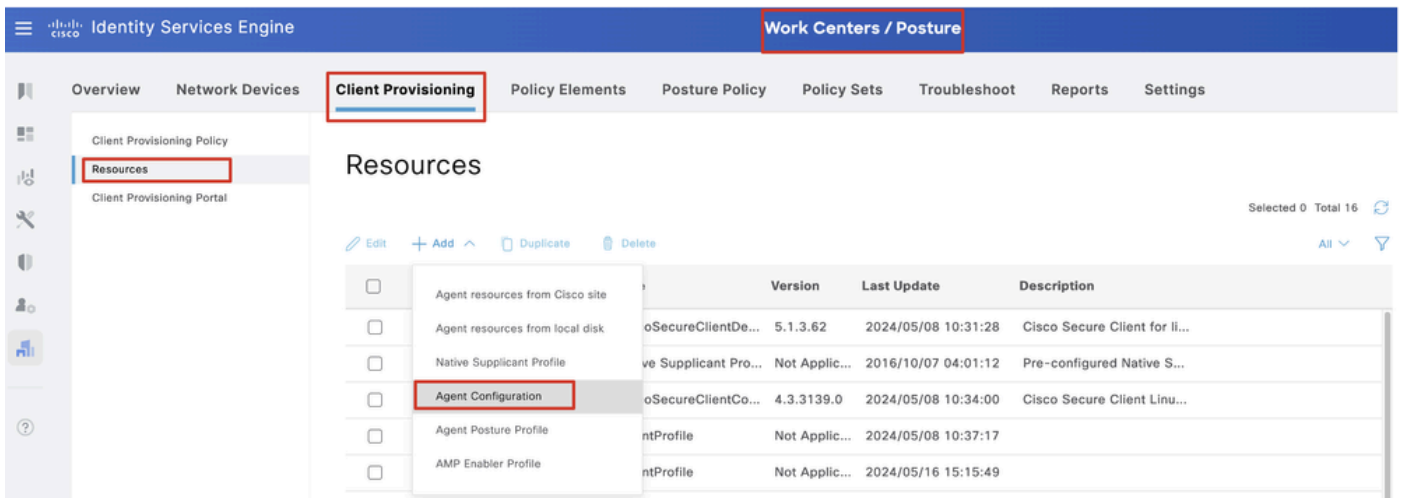


ISE_Add_Agent_Posture_Profile_1



ISE_Add_Agent_Posture_Profile_2

步骤 17 导航到Work Centers > Posture > Client Provisioning > Resources。单击。Add选择.Agent Configuration



ISE_Add_Agent_Configuration

步骤 17.2配置详细信息：

选择代理包：CiscoSecureClientDesktopLinux 5.1.3.062

名称：linux_agent_config

合规性模块：CiscoSecureClientComplianceModuleLinux 4.3.3139.0

选中复选框 VPN, Diagnostic and Reporting Tool

配置文件选择ISE终端安全评估：linux_agent_profile

单击。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

步骤 18. 导航到Work Centers > Posture > Client Provisioning > Client Provisioning Policy。在任何规则名称末尾点击Edit。选择.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_Add_New_Provisioning_Policy

步骤 18.1 配置详细信息：

规则名称：Linux

操作系统：Linux All

结果：linux_agent_config

单击Done 和Save。

The screenshot shows the Cisco Identity Services Engine (ISE) interface for configuring a Client Provisioning Policy. The page title is "Client Provisioning Policy". Below the title, there is a description: "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." Below the description, there is a table with columns: Rule Name, Identity Groups, Operating Systems, Other Conditions, and Results. The table contains three rules: IOS, Android, and Linux. The Linux rule is highlighted with a red box. The Linux rule has the following configuration: Rule Name: Linux, Identity Groups: If Any, Operating Systems: and Linux All, Other Conditions: and Condition(s), Results: then linux_agent_config.

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_Provisioning_Policy_1

步骤 19. 导航到Work Centers > Posture > Policy Elements > Conditions > File。单击。Add

The screenshot shows the Cisco Identity Services Engine (ISE) interface for configuring File Conditions. The page title is "File Conditions". Below the title, there is a table with columns: Name, Description, File name, and Condition Type. The table contains several predefined checks. The "Add" button is highlighted with a red box. The table contains the following data:

Name	Description	File name	Condition Type
pc_xp64_KB2797052_MS13...	Cisco Predefined Check:...	SYSTEM_PROGRAMS\IC...	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_KB3033869_M...	Cisco Predefined Check:...	SYSTEM_ROOT\sysnativ...	Cisco-Defined
pc_vista64_KB925902_MS0...	Cisco Predefined Check:...	SYSTEM_ROOT\winsxsl...	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\Scrun.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\Win32k.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_KB272726_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\Win32k.sys	Cisco-Defined

ISE_Add_New_File_Condition

步骤 19.1 配置详细信息：

名称：linux_demo_file_exist

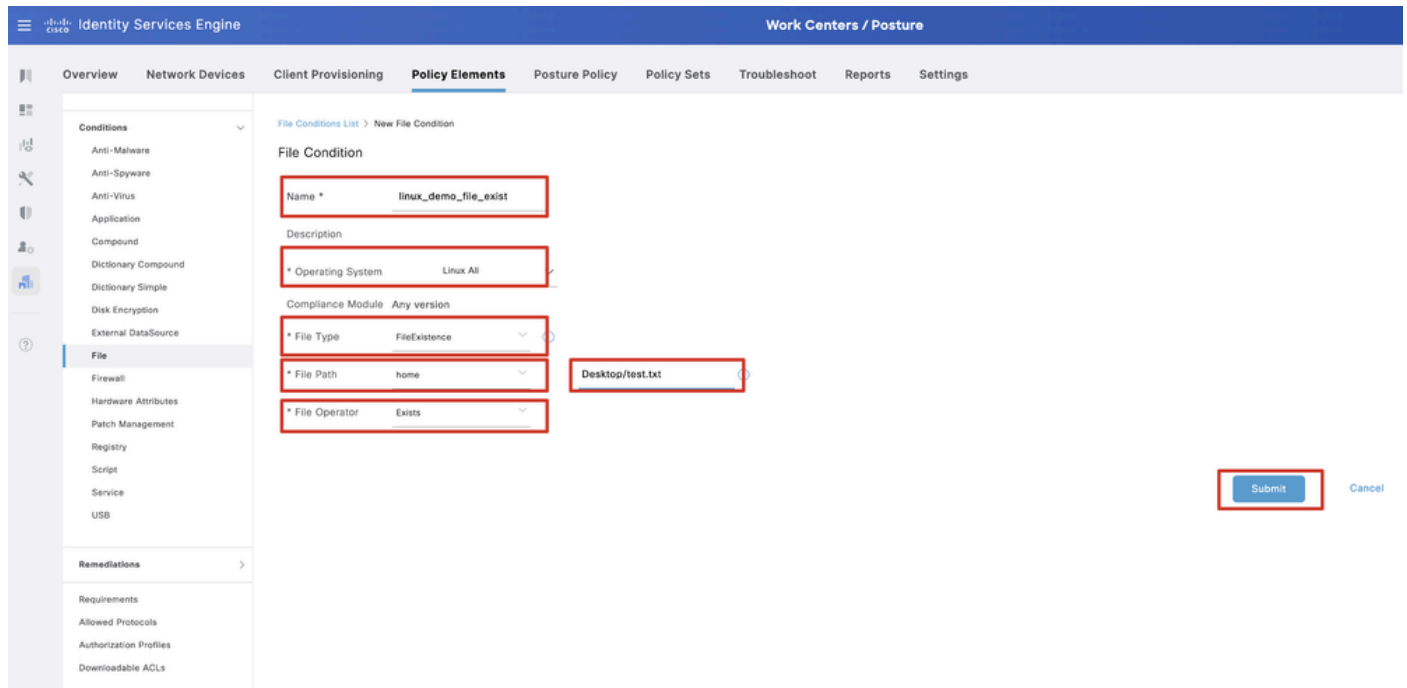
操作系统：Linux All

文件类型：FileExist

文件路径：home、Desktop/test.txt

文件运算符：存在

单击。Submit



ISE_Add_New_File_Condition_1

步骤 20. 导航到Work Centers > Posture > Policy Elements > Requirements。在任何规则名称末尾点击Edit。选择.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_AppVia_Requirement_Win	for Windows All	using 4.x or later	using Agent	met if Default_AppVia_Condition_Win then	Select Remediations	Edit
Default_AppVia_Requirement_Mac	for Mac OSX	using 4.x or later	using Agent	met if Default_AppVia_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

步骤 20.1 配置详细信息：

名称：Test_exist_linux

操作系统：Linux All

合规性模块：4.x或更高版本

状态类型：代理

条件：linux_demo_file_exist

单击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
- Allowed 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：到目前为止，Linux代理仅支持shell脚本作为补救。

步骤 21. 导航到Work Centers > Posture > Policy Elements > Authorization Profiles。单击。Add

步骤 21.1 配置详细信息：

名称：unknown_redirect

选中复选框 Web Redirection(CWA,MDM,NSP,CPP)

选择 Client Provisioning(Posture)

ACL：重定向

值：客户端调配门户（默认）

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 contains a list of categories: '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) and 'Remediations' (Requirements, Allowed Protocols, Authorization Profiles, Downloadable ACLs). The 'Policy Elements' tab is active, showing the configuration for an 'Authorization Profile' named 'unknown_redirect'. The profile's 'Access Type' is set to '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

注意：此ACL名称重定向必须与FTD上配置的相应ACL名称匹配。

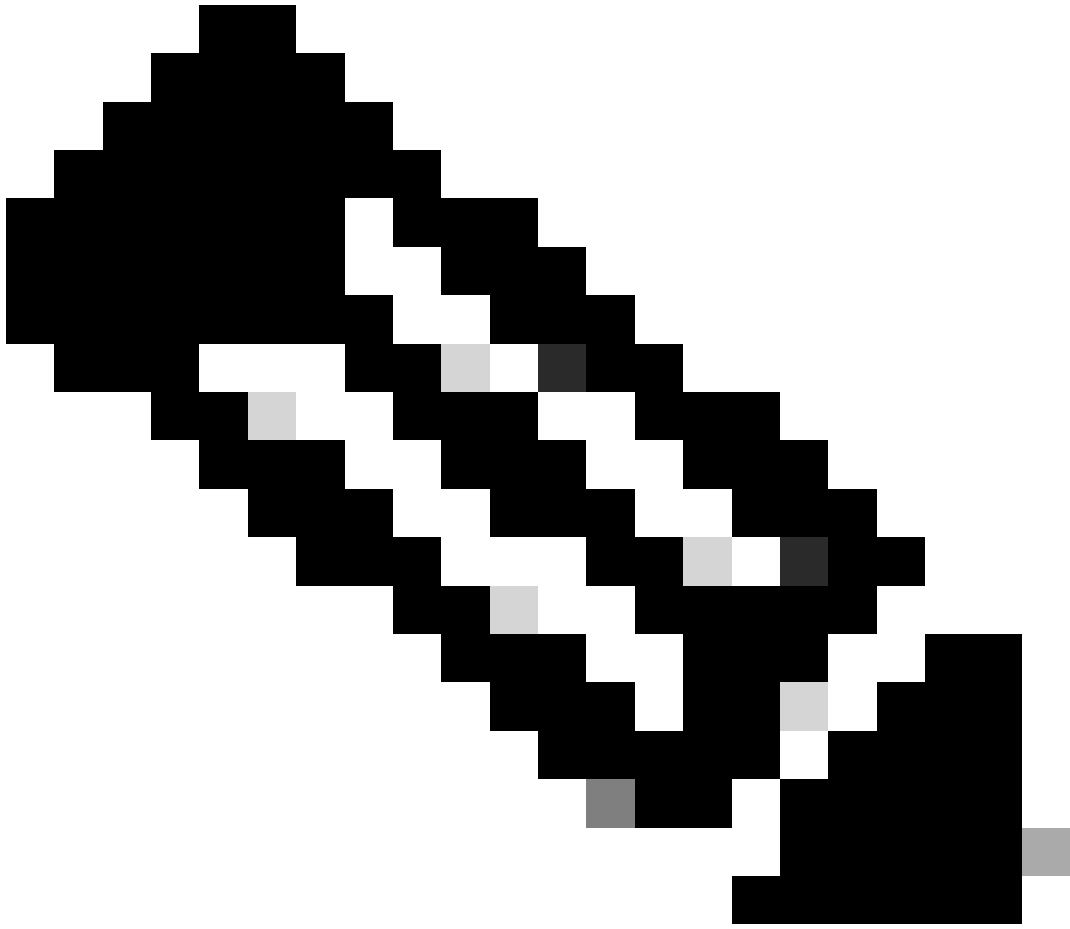
步骤 21.2重复Add 以为不兼容和兼容的终端创建另外两个授权配置文件及详细信息。

名称：non_compliant_profile

DACL名称：DENY_ALL_IPv4_TRAFFIC

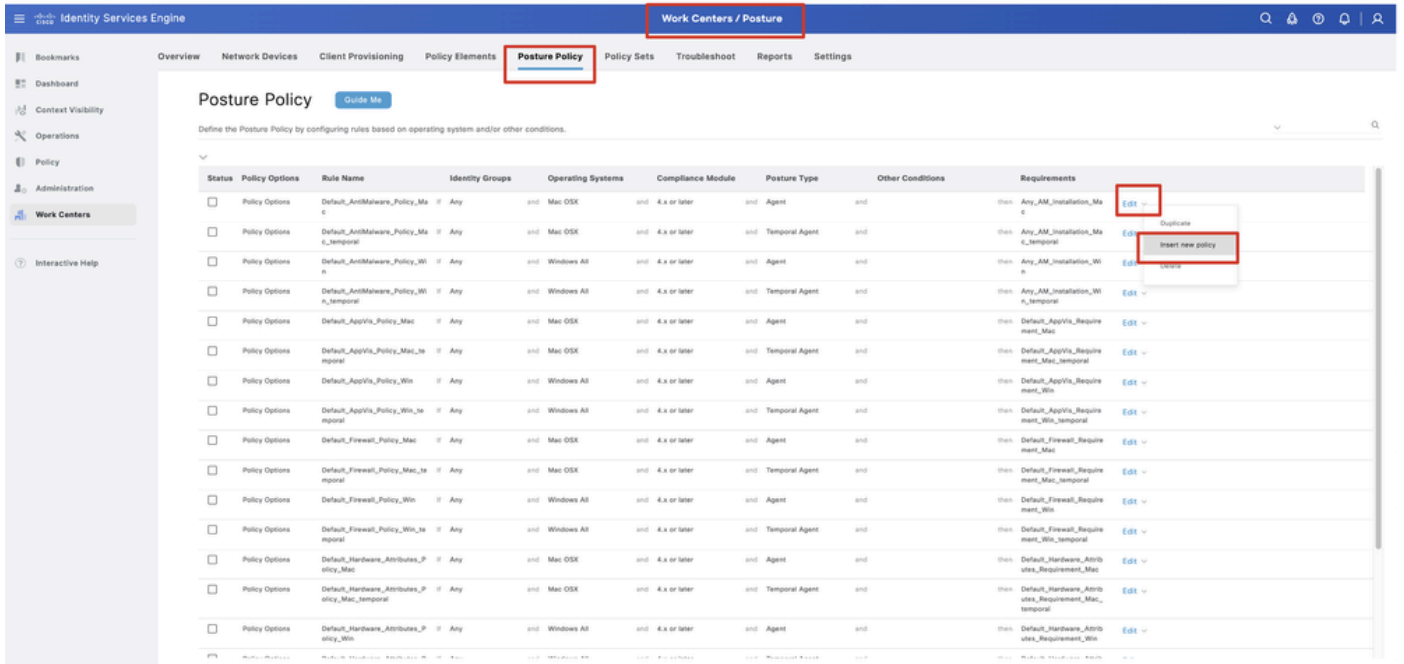
名称：compliant_profile

DACL名称：PERMIT_ALL_IPv4_TRAFFIC



注意： 需要根据实际要求配置合规或不合规终端的DACL。

步骤 22. 导航到Work Centers > Posture > Posture Policy。在任何规则末尾单击Edit。选择.Insert new policy



ISE_Add_New_Posture_Policy

步骤 22.1 配置详细信息：

规则名称：Demo_test_exist_linux

身份组：任意

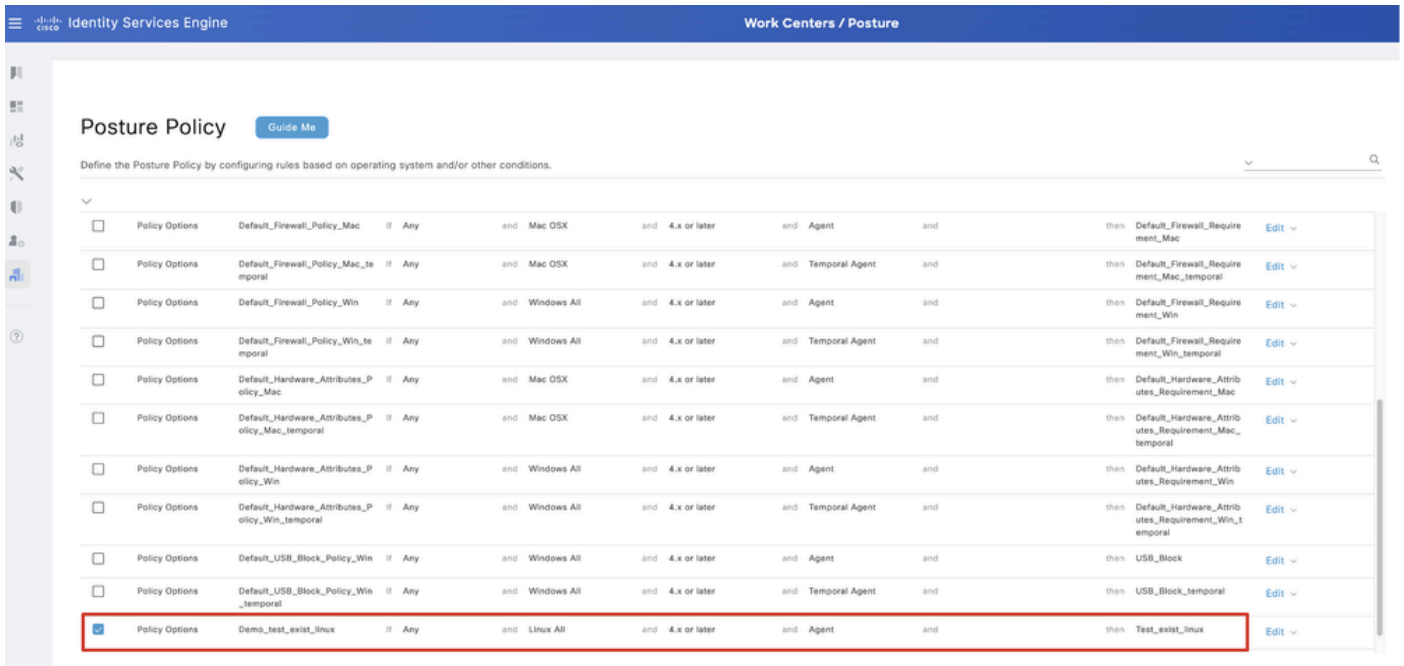
操作系统：Linux All

合规性模块：4.x或更高版本

状态类型：代理

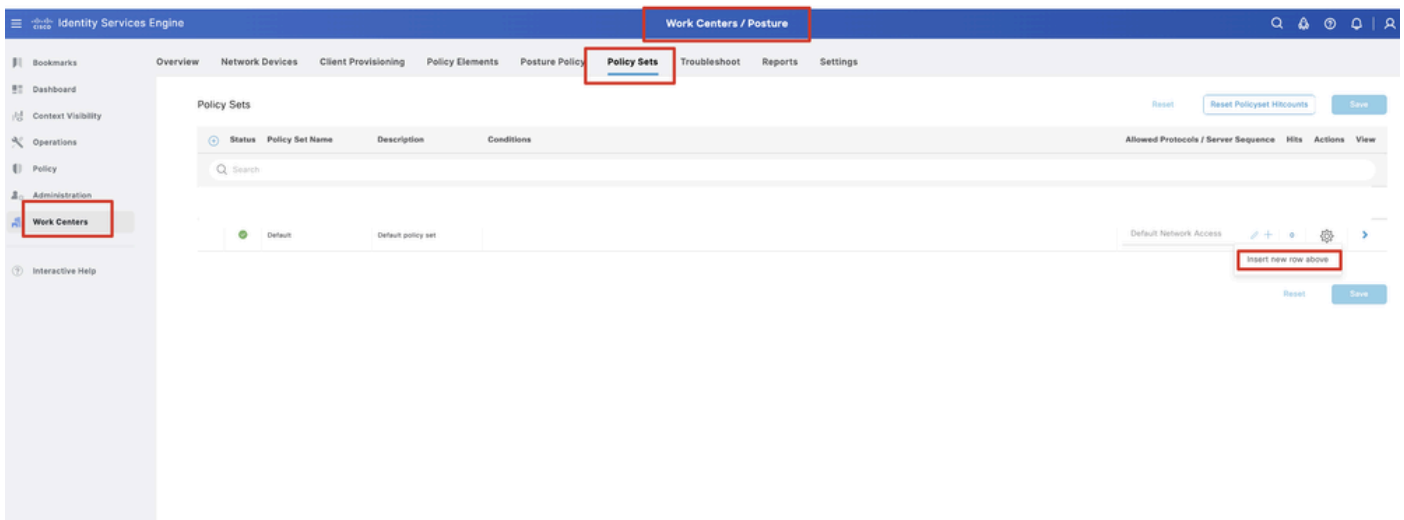
要求：Test_exist_linux

单击Done 和Save。



ISE_Add_New_Posture_Policy_1

步骤 23. 导航到Work Centers > Posture > Policy Sets。单击以Insert new row above。



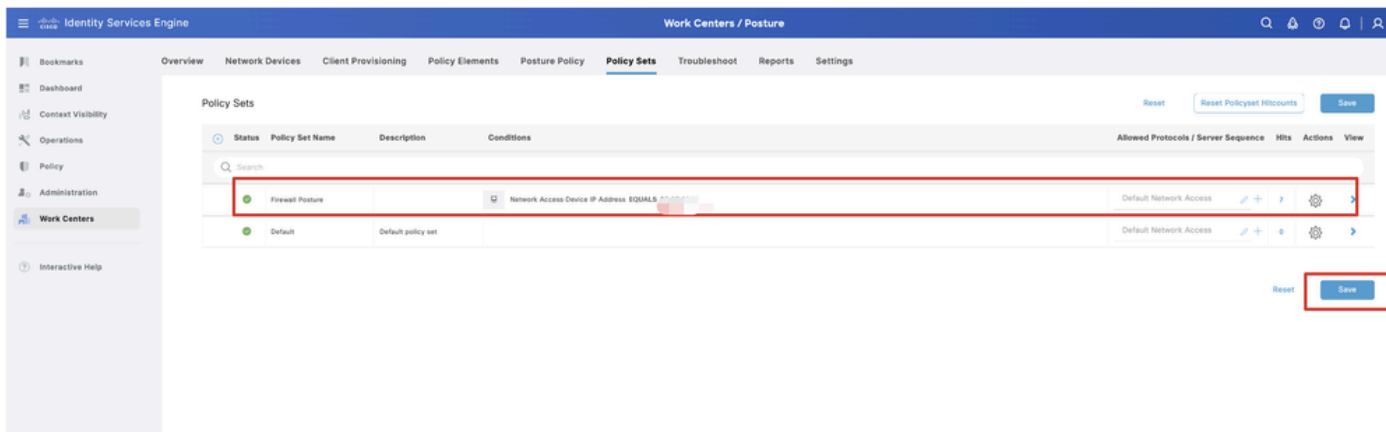
ISE_Add_New_Policy_Set

步骤 23.1 配置详细信息：

策略集名称：Firewall Posture

条件：网络接入设备IP地址等于[FTD IP地址]

单击。Save



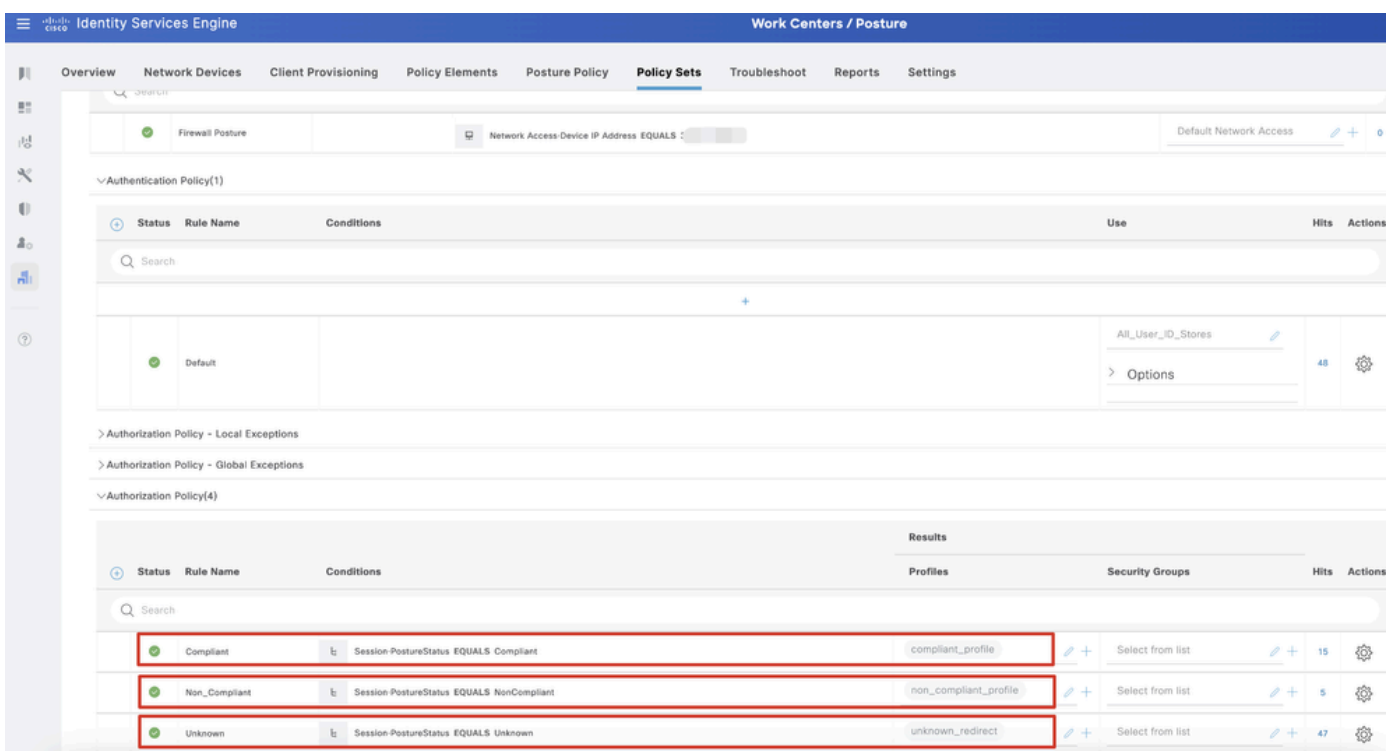
ISE_Add_New_Policy_Set_1

步骤 23.2 单击 > 以输入策略集。为状态兼容、不兼容和未知状态创建新的授权规则。单击。Save

与compliant_profile兼容

与non_compliant_profile不兼容

Unknown_redirect未知



ISE_Add_New_Policy_Set_2

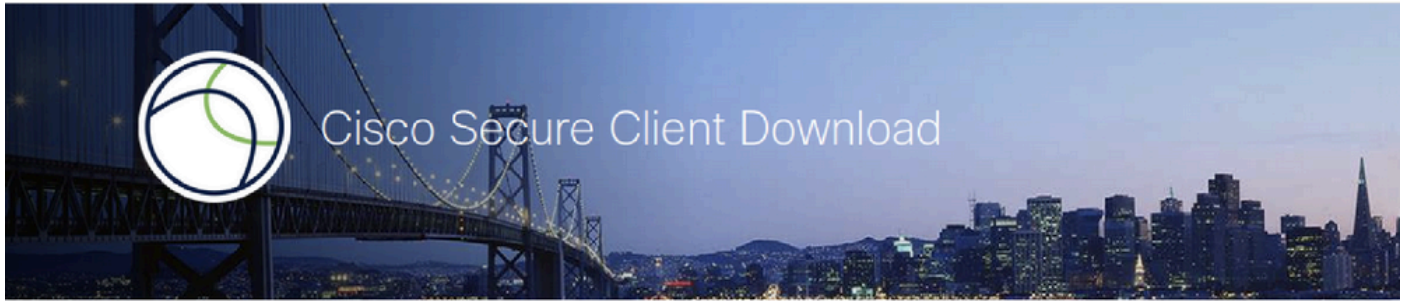
Ubuntu上的配置

步骤 24 通过GUI登录到Ubuntu客户端。打开浏览器以登录VPN门户。在本例中为demo.example.com。

A screenshot of a "Logon" dialog box. The dialog has a title bar with a key icon and the text "Logon". Inside the dialog, there are three input fields: "Group" with a dropdown menu showing "posture_vpn", "Username" with a text input field, and "Password" with a text input field. Below the input fields is a button labeled "Logon".

Ubuntu_Browser_VPN_Login

步骤 25单击。Download for Linux



Download & Install

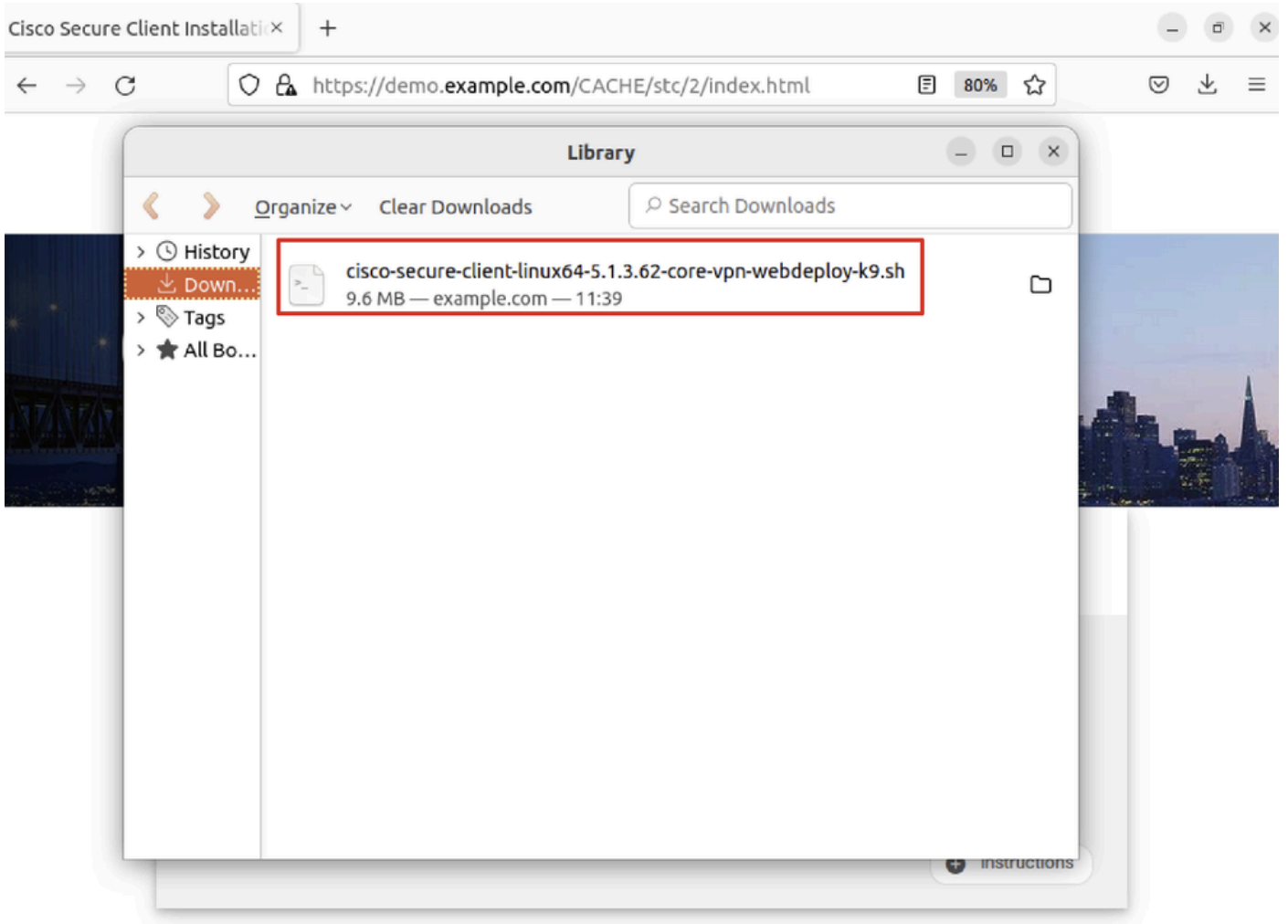
Download Cisco Secure Client and install it on your computer.

[Download for Linux](#)

[+ Instructions](#)

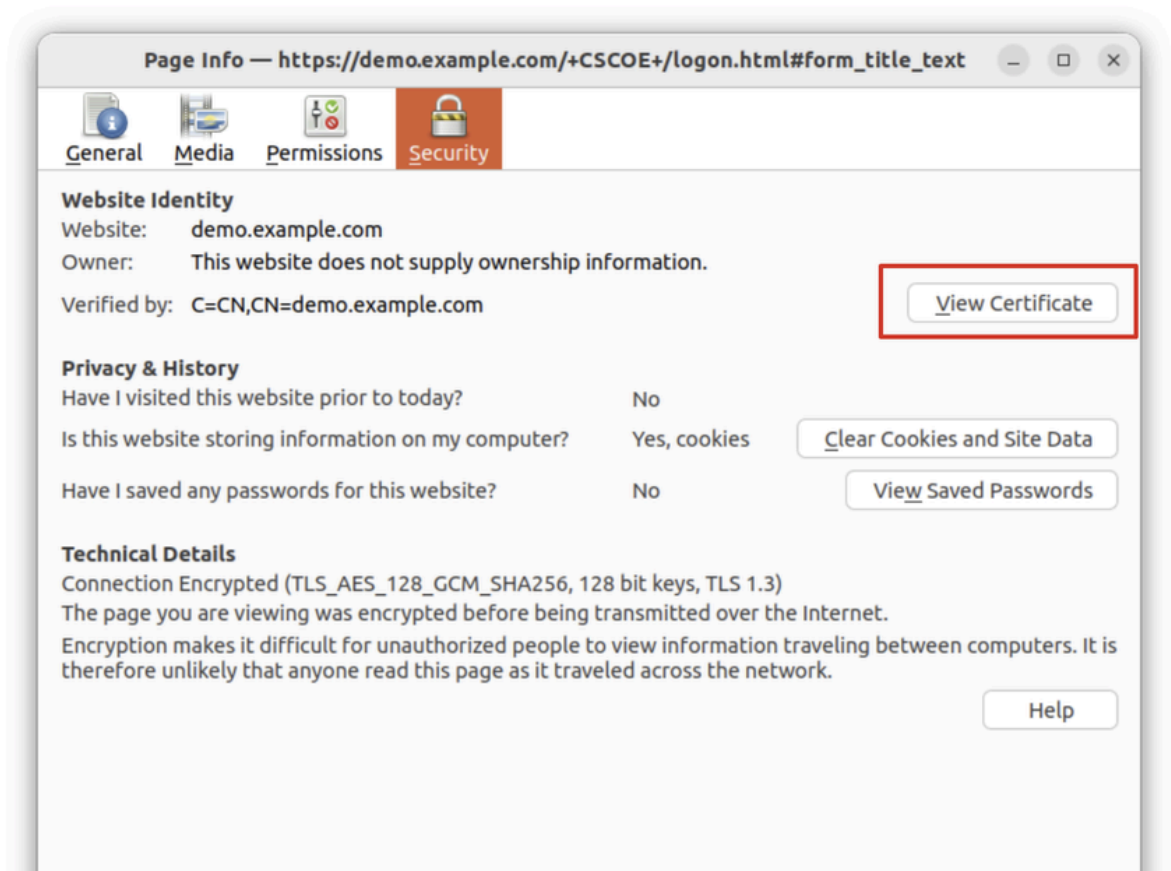
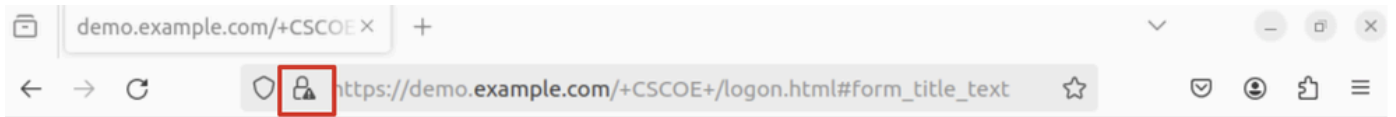
Ubuntu_Browser_VPN_Download_1

下载的文件名为cisco-secure-client-linux64-5.1.3.62-core-vpn-webdeploy-k9.sh。



Ubuntu_Browser_VPN_Download_2

步骤 26通过浏览器下载VPN证书并将文件重命名为<certificate>.crt。这是使用firefox下载证书的示例。



Ubuntu_Browser_VPN_Cert_Download

步骤 27在Ubuntu客户端上打开终端。导航到path home/user/Downloads/安装Cisco安全客户端。

```
<#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$
```

步骤 28信任Ubuntu客户端上的VPN门户证书。

```
<#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...
```

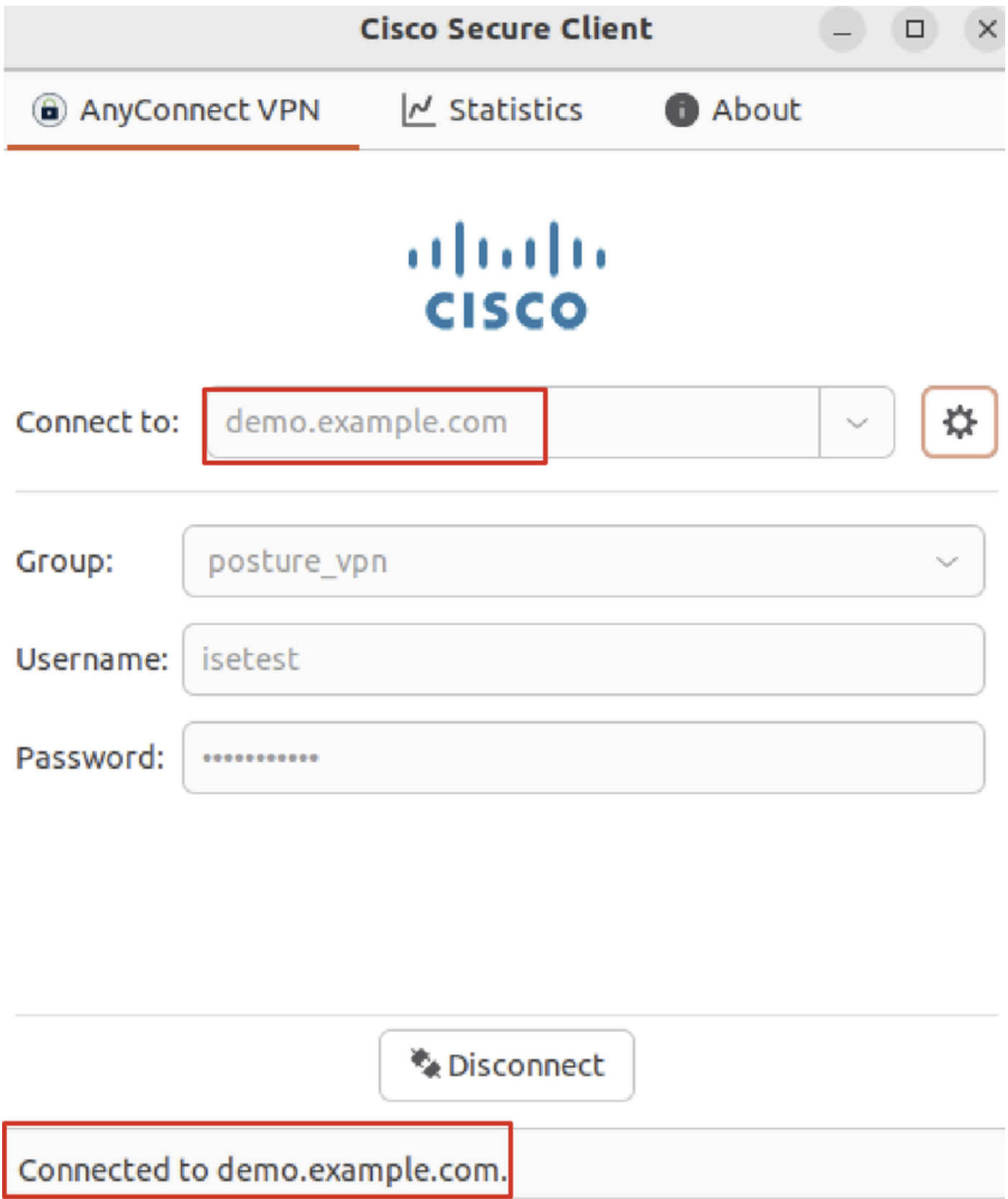
```
done.
```

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

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

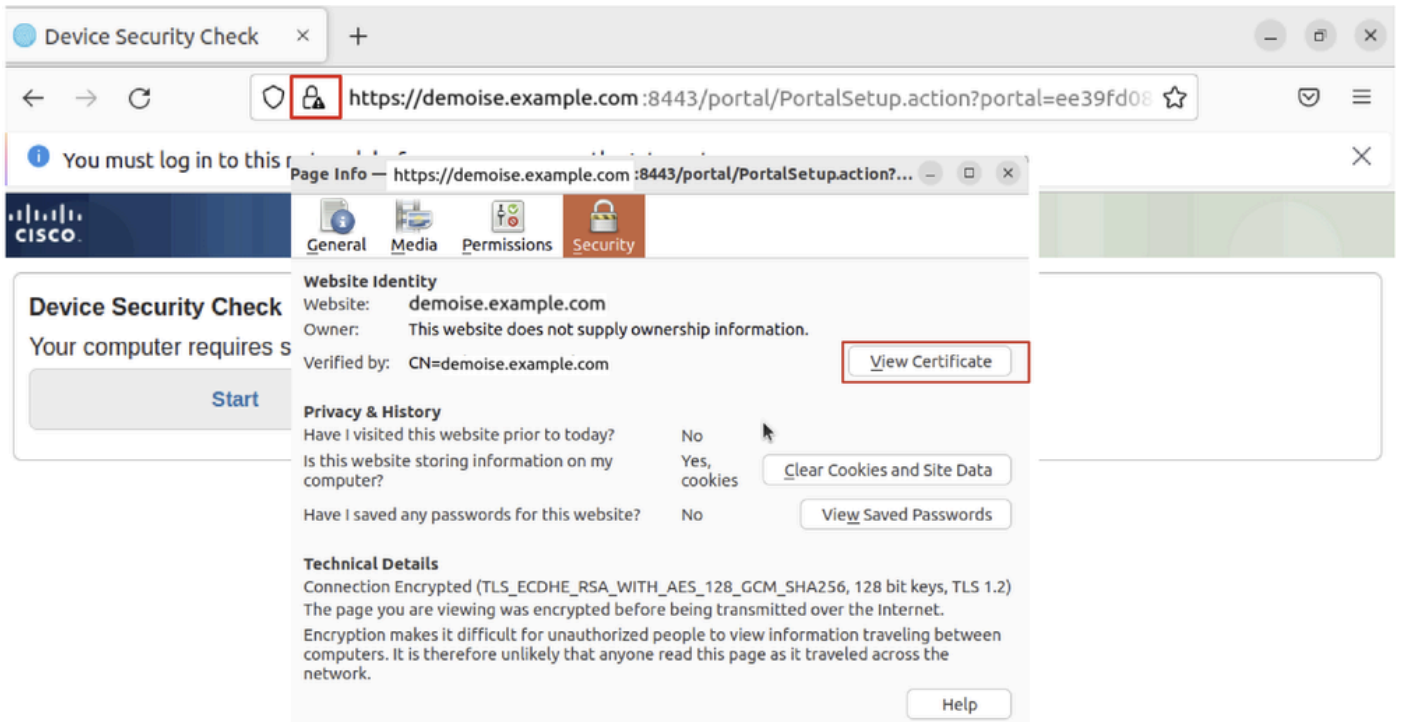
```
demo-example-com.crt: OK
```

步骤 29在Ubuntu客户端上打开Cisco Secure Client，然后将VPN成功连接到demo.example.com。



Ubuntu_Secure_Client_Connected

步骤 30 打开浏览器以访问触发重定向至ISE CPP门户的任何网站。从ISE CPP门户下载证书并将文件重命名为<certificate>.crt。这是使用Firefox进行下载的示例。



Ubuntu_Browser_CPP_Cert_Download

步骤 30.1信任Ubuntu客户端上的ISE CPP门户证书。

<#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
```

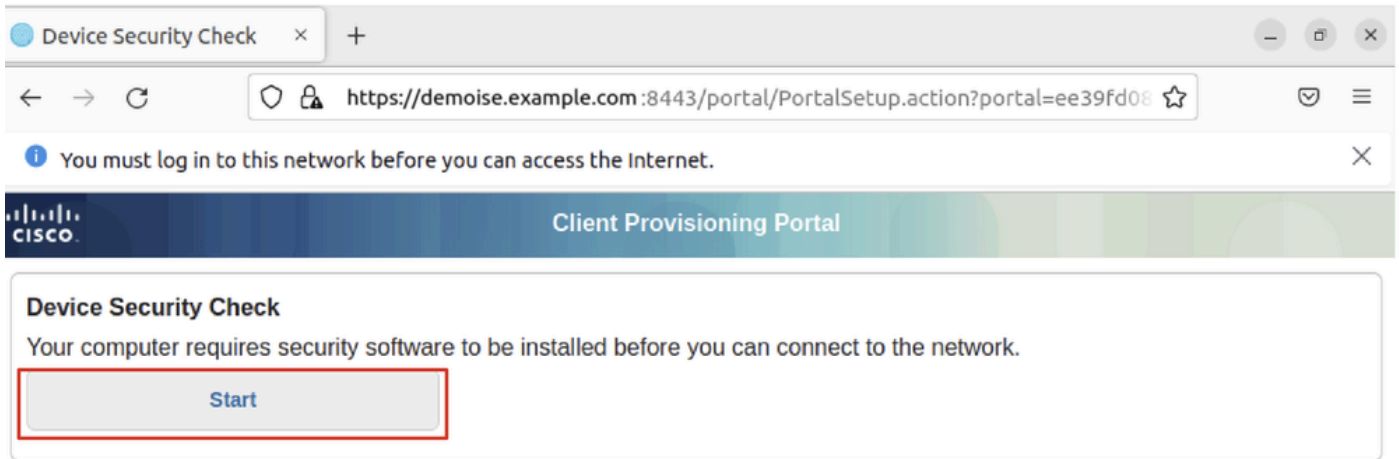
```
1 added
```

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

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

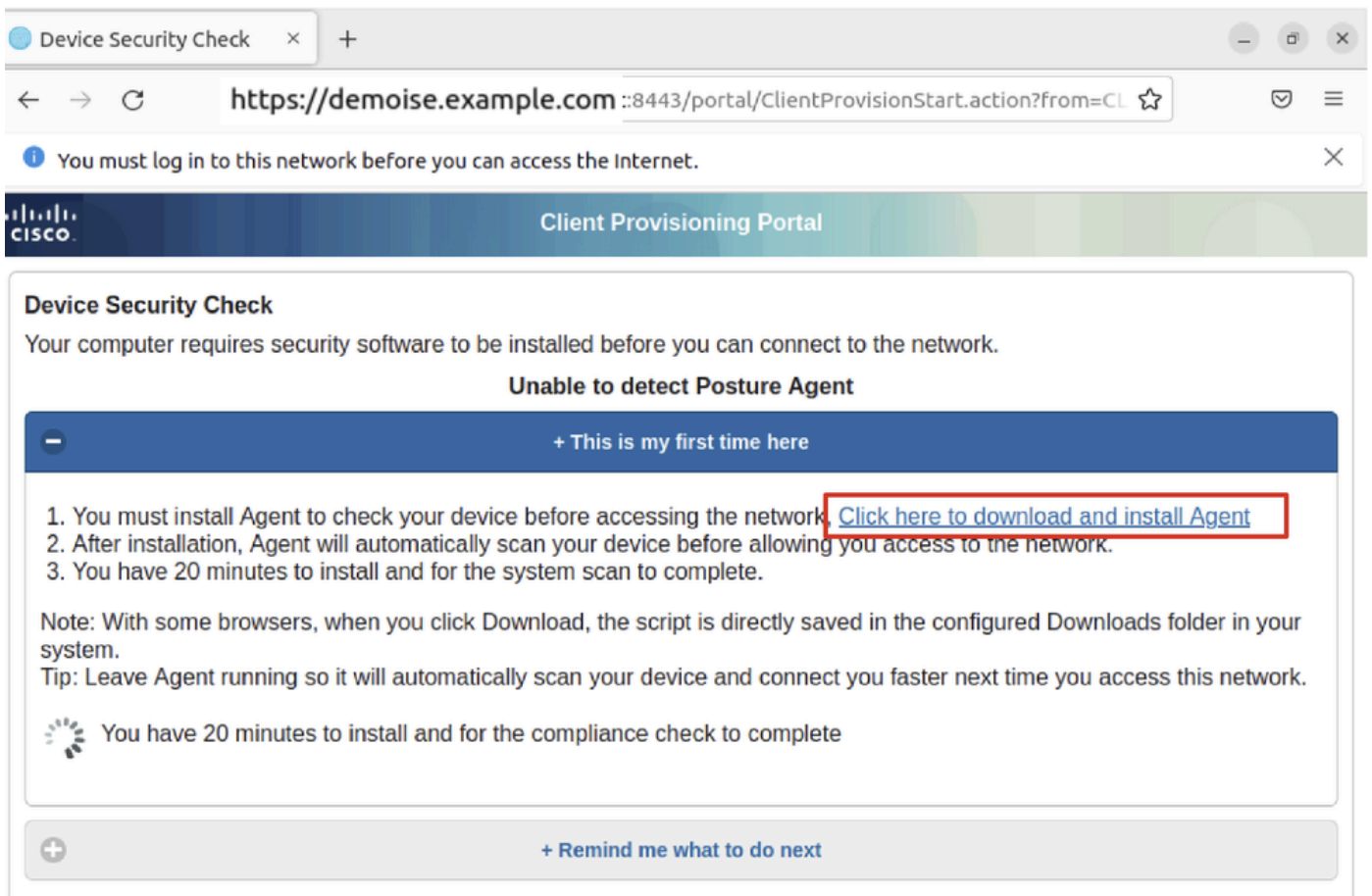
```
done.
```

步骤 31在ISE CPP门户上点击Start。



Ubuntu_Browser_CPP_Start

步骤32. Click here to download and install Agent.



Ubuntu_Browser_CPP_Download_Posture

步骤 33在Ubuntu客户端上打开终端。导航到路径home/user/Downloads/，安装状态模块。

<#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
```

```
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```

```
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.
```

步骤 34在Ubuntu客户端UI上，退出Cisco安全客户端并重新打开它。ISE终端安全评估模块安装成功并运行。



Ubuntu_Secure_Client_ISE_Posture_Installed

步骤 35在Ubuntu客户端上打开终端。导航到路径home/user/Desktop，创建test.txt一个文件以满足ISE上配置的文件条件。

<#root>

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

```
cd Desktop/
```

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

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

验证

使用本部分可确认配置能否正常运行。

步骤1:在Ubuntu客户端上将VPN连接到demo.example.com。



Verify_Ubuntu_Secure_Client_Connected

第二步：检查Ubuntu客户端上的ISE终端安全评估状态。



Network access allowed.



Verify_Ubuntu_Secure_Client_Compliance

第三步：检查ISE上的Radius实时日志。导航到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

第四步：通过SSH或控制台导航至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

故障排除

本部分提供了可用于对配置进行故障排除的信息。

对于终端安全评估流程和思科安全客户端和ISE故障排除，请检查CCO[文档ISE终端安全评估样式比较高级版和2.2后版本](#)以及[ISE会话管理和终端安全评估故障排除](#)。

相关信息

- [思科身份服务引擎网络组件兼容性，版本3.3](#)

- [思科身份服务引擎管理员指南，版本3.3](#)
- [思科技术支持和下载](#)

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