# Configuración de la posición de ISE en VPN de acceso remoto AnyConnect en FTD

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# Introducción

Este documento describe cómo configurar Firepower Threat Defence (FTD) versión 6.4.0 para exponer a los usuarios de VPN frente a Identity Services Engine (ISE).

# Prerequisites

#### Requirements

Cisco recomienda que tenga conocimiento sobre estos temas:

- VPN de acceso remoto AnyConnect
- Configuración de VPN de acceso remoto en el FTD
- Identity Services Engine y servicios de estado

#### **Componentes Utilizados**

La información que contiene este documento se basa en estas versiones de software:

- Software Cisco Firepower Threat Defense (FTD), versiones 6.4.0
- Software Cisco Firepower Management Console (FMC) versión 6.5.0
- Microsoft Windows 10 con Cisco AnyConnect Secure Mobility Client versión 4.7
- Cisco Identity Services Engine (ISE) versión 2.6 con parche 3

La información que contiene este documento se creó a partir de los dispositivos en un ambiente de laboratorio específico. Todos los dispositivos que se utilizan en este documento se pusieron en funcionamiento con una configuración verificada (predeterminada). Si tiene una red en vivo, asegúrese de entender el posible impacto de cualquier comando.

# Configurar

#### Diagrama de red y flujo de tráfico



1. El usuario remoto utiliza Cisco Anyconnect para el acceso VPN al FTD.

2. El FTD envía una solicitud de acceso RADIUS para ese usuario a ISE.

3. Esa solicitud llega a la política denominada **FTD-VPN-Posture-Unknown** en ISE. ISE envía una aceptación de acceso RADIUS con tres atributos:

- **cisco-av-pair = url-redirect-acl=fyusifovredirect** Este es el nombre de la lista de control de acceso (ACL) que se define localmente en el FTD, que decide el tráfico que se redirige.
- cisco-av-pair = urlredirect=<u>https://ip:port/portal/gateway?sessionId=SessionIdValue&portal=27b1bc30-2e58-11e9-</u> <u>98fb-0050568775a3&action=cpp</u>: URL a la que se redirige al usuario remoto.
- **DACL = PERMIT\_ALL\_IPV4\_TRAFFIC** ACL descargable Este atributo es opcional. En esta situación, todo el tráfico está permitido en DACL)

4. Si se envía la DACL, se intercambia RADIUS Access-Request/Access-Accept para descargar el contenido de la DACL

5. Cuando el tráfico del usuario VPN coincide con la ACL definida localmente, se redirige al portal de aprovisionamiento de clientes de ISE. ISE aprovisiona el módulo de estado de AnyConnect y el módulo de conformidad.

6. Una vez instalado el agente en el equipo cliente, busca ISE con sondeos automáticamente. Cuando se

detecta ISE correctamente, se comprueban los requisitos de estado en el terminal. En este ejemplo, el agente comprueba si hay software antimalware instalado. A continuación, envía un informe de estado al ISE.

7. Cuando ISE recibe el informe de estado del agente, ISE cambia el estado de esta sesión y activa el tipo de RADIUS CoA Push con nuevos atributos. Esta vez, se conoce el estado de postura y se aplica otra regla.

- Si el usuario cumple con la normativa, se envía un nombre de DACL que permite el acceso completo.
- Si el usuario no cumple con la normativa, se envía un nombre de DACL que permite el acceso limitado.

8. El FTD elimina la redirección. FTD envía Access-Request para descargar DACL desde ISE. La DACL específica se asocia a la sesión VPN.

#### Configuraciones

#### FTD/FMC

Paso 1. Crear un grupo de objetos de red para ISE y servidores de corrección (si los hay). Navegue hasta **Objetos > Administración de objetos > Red**.

Overview	Analysis	Policies	Devices	Objects	AMP	Intelligence			
Object Man	agement	Intrusi	on Rules						
Network A network obj	ject represe	nts one or	more IP add	dresses. Netwo	ork objec	ts are used in var	ious places, includ	ling access contro	l policies, net
S Exter	nded	-	Name						
🕃 Stan	dard		any-ipv4						
Address	Pools Pools		any-ipv6						
	Pools		enroll.cisco	.com					
Applicat Y AS Path	ion Filters		IPv4-Bench	mark-Tests		Edit Network	Object		
🔅 Cipher S	Suite List		IPv4-Link-L	ocal		Name	ISE_PSN		
a 🗳 Distingu	nity List ished Name		IPv4-Multica	ast		Description			
Indiv	idual Object	ts	IPv4-Privat	e-10.0.0.0-8					
DNS Se	ct Groups		IPv4-Privat	e-172.16.0.0-	12	Network	Host	C Range	C Netw
File List			IPv4-Privat	e-192.168.0.0	-16		192.168.15.14		
Gy FlexCon     Gy FlexC	fig Config Objec Object	at	IPv4-Privat	e-All-RFC1918	3	Allow Overrides	Γ	-	
Geoloca	tion		IPv6-IPv4-	Mapped					
Interfac	e		IPv6-Link-L	ocal					
Network			IPv6-Privat	e-Unique-Loca	I-Address	ses			
🖻 🌽 PKI			IPv6-to-IPv	4-Relay-Anyc	ast				

Paso 2. Crear ACL de redirección. Navegue hasta **Objetos > Administración de objetos > Lista de acceso > Extendida**. Haga clic en **Add Extended Access List** y proporcione el nombre de Redirect ACL. Este nombre debe ser el mismo que en el resultado de la autorización de ISE.

Overview Analysis	Policies	Devices	Objects	AMP	Intelligence		
Object Management	Intrusio	on Rules					
Extended An access list object, also Supports IPv4 and IPv6 a	known as	an access o	ontrol list (ACI	L), selecti	s the traffic to which a service	will apply. Standard-Identifies t	raffic based on destination addr
Access List		New Exte	andod Acco	an Liet	Object	aa roota mapar	
Extended		New Exte	ended Acce	SS LIST	Object		
🕃 Standard		Name	fyus	ifovredire	ect		
Address Pools		Entries (0	))				
IPV4 Pools							
IPV6 Pools		Seque	nce Acti	on s	Source	Source Port	Destination
Application Filters		Seque	nce Acti	on s	Source	Source Port	Destination
Application Filters		Seque	nce Acti	on S	Source	Source Port No records to	Destination
AS Path Cipher Suite List	l	Seque	nce Acti	on s	Source	Source Port No records to	Destination display
Application Filters Application Filters AS Path Cipher Suite List Community List	l	Seque	nce Acti	on S	Source	Source Port No records to	Destination display
Application Filters Application Filters AS Path Cipher Suite List Community List Community List Distinguished Name	ts	Seque	nce Acti	on S	Source	Source Port No records to	<b>Destination</b> display
Application Filters AS Path Cipher Suite List Community List Distinguished Name Distinguished Name	15	Seque	nce Acti	on S	Source	Source Port	<b>Destination</b> display
Application Filters Application Filters AS Path Cipher Suite List Community List Community List Community List Community List Community	ts	Allow Ove	nce Activ	on S	Source	Source Port	<b>Destination</b> display
Application Filters Application Filters AS Path Cipher Suite List Community List Communit	5	Allow Ove	nce Activ	on S	Source	Source Port	<b>Destination</b> display
Application Filters Application Filters AS Path Cipher Suite List Community List Distinguished Name Individual Object Object Groups Object Groups DNS Server Group File List Server Group	ts	Allow Ove	nce Activ	DN 5	Source	Source Port	Destination

Paso 3. Agregue entradas de ACL de redirección. â€<sup>-</sup>Haga clic en el botón Add (Agregar).â€<sup>TM</sup> Bloquee el tráfico a DNS, ISE y a los servidores de corrección para excluirlos de la redirección. Permitir el resto del tráfico, esto activa la redirección (las entradas de ACL podrían ser más específicas si fueran necesarias).

	Access List Entry			
Action:	× Block	~		
Logging:	Default	•		
Log Level:	Informational	Y		
Log Interval:	300	Sec.		
Network F	Port			
Available Netw	vorks C	٢	Source Networks (1)	Desti
🔍 Search by n	ame or value		📰 any-ipv4	🗐 🚅 IS
🔁 any		-		
📄 any-ipv4		Adda		
any-ipv6		Source		
enroll.cisco	.com	Add to		
IPv4-Bencl	hmark-Tests	Destinatio	n	
IPv4-Link-I	Local			
IPv4-Multic	ast			
IPv4-Privat	te-10.0.0.0-8			
	172 16 0 0 12			

Edit Extended	Access Lis	st Object			
Name Entries (4)	fyusifovre	direct			
Sequence	Action	Source	Source Port	Destination	Dest
1	🗙 Block	🖶 any	Any	Any	🎤 DN
2	🗙 Block	🚍 any-ipv4	Any	ISE_PSN	Any
3	× Block	💭 any-ipv4	Any	RemediationServers	Any
4	🖋 Allow	📄 any-ipv4	Any	any-ipv4	Any
Allow Overrides					

Paso 4. Agregue nodos PSN de ISE. Navegue hasta **Objetos > Administración de objetos > Grupo de servidores RADIUS**. Haga clic en **Agregar grupo de servidores RADIUS**, luego indique el nombre, active todas las casillas de verificación y haga clic en el icono **más**.

# Edit RADIUS Server Group

Name:*	ISE	
Description:		
Group Accounting Mode:	Single	•
Retry Interval:*	10	(1-10
Realms:		•
Enable authorize only		
🗹 Enable interim account update		
Interval:*	24	(1-12
Enable dynamic authorization		
Port:*	1700	(1024
RADIUS Servers (Maximum 16 ser	vers)	
TD Address / Hestname		
IP Address/ nostname		
	No records to display	

Paso 5. En la ventana abierta, proporcione la dirección IP PSN de ISE, la clave RADIUS, seleccione **Specific Interface** y seleccione la interfaz desde la que se puede alcanzar ISE (esta interfaz se utiliza como origen del tráfico RADIUS) y, a continuación, seleccione **Redirect ACL**, que se configuró anteriormente.



Paso 6. Crear conjunto de direcciones para usuarios de VPN. Navegue hasta **Objetos > Administración de objetos > Pools de direcciones > Pools IPv4**. Haga clic en **Add IPv4 Pools** y rellene los detalles.

Overview	Analysis	Policies	Devices	Objects	AMP	Intelligence
Object Mar	nagement	Intrusio	n Rules			

#### IPv4 Pools

IPv4 pool contains list of IPv4 addresses, it is used for diagnostic interface with clustering, or for VPN remote access profiles.

Standard 💻	Name	
Address Pools	Edit IPv4 Pool	? × 1
IPv4 Pools IPv6 Pools Application Filters Y AS Path Cipher Suite List Community List Community List Individual Objects Object Groups	Name*         VPN-172-Pool           IPv4 Address Range*         172.16.1.10-172.16.1.20           Format: ipaddr-ipaddr e.g., 10.72.1.1-10.72.1.150           Mask         255.255.255.0           Description	
C DNS Server Group	Allow Overrides	
Gy FlexConfig	Configure device overrides in the address pool object to avoid IP address conflicts in case of object is shared across multiple devices	
🦻 FlexConfig Object 🛛 —	Override (0)	-
Ga Text Object	Save	
🥞 Interface		

Paso 7. Cree el paquete de AnyConnect. Navegue hasta **Objetos > Administración de objetos > VPN > Archivo de AnyConnect**. Haga clic en **Agregar archivo de AnyConnect**, proporcione el nombre del paquete, descargue el paquete de <u>Descarga de software de Cisco</u> y seleccione el tipo de archivo **Imagen de cliente de AnyConnect**.

Overview Analysis Policie	s Devices Object	s AMP Intelligence	
Object Management Intru	sion Rules		
AnyConnect File File objects represent files used in	configurations, typically	for remote access VPN policies. They can conta	in AnyConnect Client Profile and AnyConnect Client Imag
Policy List	Name		
Port	Edit AnyConnect	File	? ×
IPv4 Prefix List			
🛐 IPv6 Prefix List	Name:*	AC47	
RADIUS Server Group			
Ø Route Map	File Name:*	anyconnect-win-4.7.01076-webdeploy-k9.	srowse
Security Intelligence     ONS Lists and Feeds	File Type*	AnuConnect Client Impac	
Network Lists and Feed	The type:	AnyConnect Client Image	
URL Lists and Feeds	Description:		_
Sinkhole			
G SLA Monitor			
Time Range	1	Save	Cancel
Tunnel Zone			
S Variable Set			
S VLAN Tag			
A 😥 VPN			
ManyConnect File			
9 Certificate Man			

Paso 8. Navegue hasta **Objetos de certificado > Administración de objetos > PKI > Inscripción de certificado**. Haga clic en **Add Cert Enrollment**, proporcione el nombre y elija **Self Signed Certificate** en Enrollment Type. Haga clic en la ficha Parámetros de certificado y proporcione CN.



1	Add Cert Enrollment		
	Name*	vpr	1-cert
	Description		
	CA Information Cer	tific	ate Parameters Key Revocation
	Include FQDN:		Use Device Hostname as FQDN
	Include Device's IP Addr	ess:	10.48.26.99
	Common Name (CN):		vpn-cert.example.com
	Organization Unit (OU):		
	Organization (O):		example
	Locality (L):		
	State (ST):		Krakow
	Country Code (C):		PL
	Email (E):		
	Include Device's Seria	al Nu	mber
	Allow Overrides		

Paso 9. Inicie el asistente para VPN de acceso remoto. Navegue hasta **Devices > VPN > Remote Access** y haga clic en **Add**.

Overview Analysis	Policies	Devices Objects	АМР	Intelligence				
Device Management	NAT	VPN + Remote Access	QoS	Platform Settings	FlexConfig	Certificates		
Name				Status			Last Modified	
				No co	onfiguration	available <b>Add</b>	a new configuration	

Paso 10. Proporcione el nombre, marque SSL como protocolo VPN, elija FTD que se utiliza como concentrador VPN y haga clic en **Next**.

1 Policy Assignment 2	Connection Profile	a > 3 AnyConnect > 4	Access & Co	ertificate $>$ 5 Su	mmary	
	Targeted Device	es and Protocols				
	This wizard will gu	ide you through the required minimal	steps to configu	ure the Remote Access VP	N policy	Before You Sta
	with a new user-u	enned connection prome.				Before you start, er
	Nemes					configuration element complete Remote Ac
	Name:	EmployeeVPN				Authentication Con
	Description:					Configure Realm of
						Group to authenticate
	VPN Protocols:	SSI DIPSAC-IKEV2				AnyConnect Client
	Transfer	Available Devices		Salacted Devices		Make sure you package for VPN Cli
	Targeted Devices	Available Devices		Selected Devices		you have the relevant
		- Search		<b>192.168.15.11</b>		to download it during
		192.168.15.11				Device Interface
						on targeted devices
						group to enable VPN
			bha			

Paso 11. Proporcione el nombre del **perfil de conexión**, seleccione **Authentication/Accounting Servers**, seleccione el pool de direcciones que se configuró previamente y haga clic en **Next**.

**Nota**: No seleccione el servidor de autorización. Activa dos solicitudes de acceso para un único usuario (una con la contraseña de usuario y la segunda con la contraseña de *cisco*).

1 Policy Assignment 2 Connection Profile	3 AnyConnect 3 4 A	ccess & Certificate S Summary
	Connection Profile:	· · · · · · · · · · · · · · · · · · ·
	Connection Profiles specify the itself, how AAA is accomplished group policies.	tunnel group policies for a VPN connection. These policies pertain to creating the tunne and how addresses are assigned. They also include user attributes, which are defined
	Connection Profile Name:*	EmployeeVPN
		This name is configured as a connection alias, it can be used to connect to the VPN gateway
	Authentication, Authorization 8	& Accounting (AAA):
	Specify the method of authenti connections.	cation (AAA, certificates or both), and the AAA servers that will be used for VPN
	Authentication Method:	AAA Only
	Authentication Server:*	ISE (Realm or RADIUS)
	Authorization Server:	Use same authentication server 🛩 🔕 (RADIUS)
	Accounting Server:	ISE Y (RADIUS)
	Client Address Assignment:	
	Client IP address can be assig selected, IP address assignme	ned from AAA server, DHCP server and IP address pools. When multiple options are nt is tried in the order of AAA server, DHCP server and IP address pool.
	Use AAA Server (RADI	US only) 🕕
	Use DHCP Servers	
	Use IP Address Pools	
	IPv4 Address	VPN-172-Pool
	IPv6 Address	
	Group Policy:	
	A group policy is a collection of established. Select or create a	user-oriented session attributes which are assigned to client when a VPN connection is Group Policy object.
	Group Policy:*	DfltGrpPolicy V Edit Group Policy

Paso 12. Seleccione el paquete de AnyConnect que se configuró anteriormente y haga clic en Next.

Remote Access VPN Policy Wizard			
1 Policy Assignment 2 2 Connection P	rofile 3 AnyConnect	4 Access & Certificate 5 S	ummary
Remo	er AnyConnect -	Outside	VPN Device Inside
An	nyConnect Client Image		
The	e VPN gateway can automatical nnection is initiated. Minimize conn	ly download the latest AnyConnect package to ection setup time by choosing the appropriate OS	the client device when the for the selected package.
Do	wnload AnyConnect Client packag	es from Cisco Software Download Center.	Show Re-order buttons
	AnyConnect File Object Nar	ne AnyConnect Client Package Name	Operating System
	AnyConnect File Object Nar	ne AnyConnect Client Package Name anyconnect-win-4.7.01076-webdeploy-k9	Operating System Windows
	AnyConnect File Object Nar	ne AnyConnect Client Package Name anyconnect-win-4.7.01076-webdeploy-k9	Operating System Windows
	AnyConnect File Object Nar	ne AnyConnect Client Package Name anyconnect-win-4.7.01076-webdeploy-k9	Operating System Windows
	AnyConnect File Object Nar	ne AnyConnect Client Package Name anyconnect-win-4.7.01076-webdeploy-k9	Operating System Windows
	AnyConnect File Object Nar	ne AnyConnect Client Package Name anyconnect-win-4.7.01076-webdeploy-k9	Operating System Windows

Paso 13. Seleccione la interfaz de la que se espera tráfico VPN, seleccione **Certificate Enrollment** que se configuró anteriormente y haga clic en **Next**.

Remote Access VPN Policy Wizard	
1 Policy Assignment 2 Connection Profile	3 AnyConnect 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:* ZONE-OUTSIDE Enable DTLS on member interfaces
	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:* Vpn-cert 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) This option bypasses the Access Control Policy inspection, but VPN filter ACL and authorization ACL downloaded from AAA server are still applied to VPN traffic.

Paso 14. Compruebe la página de resumen y haga clic en Finalizar.

Remote Access VPN Policy Con	figuration	Additional Configuration Requ
Firepower Management Center will Name:	configure an RA VPN Policy with the following settings EmployeeVPN	After the wizard completes, configuration needs to be completed work on all device targets.
Device Targets:	192.168.15.11	Access Control Policy Upda
Connection Profile:	EmployeeVPN	An <u>Access Control</u> rule must allow VPN traffic on all targeter
Connection Alias:	EmployeeVPN	NAT Exemption
AAA: Authentication Method:	AAA Only	If NAT is enabled on the targ you must define a <u>NAT Polic</u> VPN traffic.
Authentication Server:	ISE ISE	① DNS Configuration
Authorization Server:	ISE ISE	To resolve hostname speci Servers or CA Servers, configu FlexConfig Policy on the targets
Accounting Server:	We ISE	Port Configuration
Address Assignment: Address from AAA: DHCP Servers:	:	SSL will be enabled on port 44: Please ensure that these ports in <u>NAT Policy</u> or other ser deploying the configuration.
Address Pools (IPv4):	Q 1001 170 0ccl	🔌 Network Interface Configur
Address Pools (IPv6):		Make sure to add interface f devices to SecurityZone of
Group Policy:	DfltGrpPolicy	OUTSIDE'
AnyConnect Images:	AC47	
Interface Objects:	SONE-OUTSIDE	
Device Certificates:	Upp.cert	

Paso 15. Implemente la configuración en FTD. Haga clic en **Deploy** y seleccione **FTD** que se utiliza como concentrador VPN.

Overview Analysis Policies De	evices Objects AMP Intelligence			
Device Management NAT VPM	Remote Access QoS Platform Settings	FlexConfig Certificates		
EmployeeVPN	Deploy Policies Version:2020-02-02 09:	15 PM		
Enter Description		Inspect Interruption	Type Group	Current Versi
Connection Profile Access Inter	fac 📝 ⊕ ==192.168.15.11	No	FTD	2020-02-02 09
Name				
DefaultWEBVPNGroup				
EmployeeVPN				
	Selected devices: 1			Deploy

#### ISE

Paso 1. Ejecutar actualizaciones de estado. Vaya a Administration > System > Settings > Posture > Updates.

Posture Updates		
<ul> <li>Web</li> </ul>	○ Offline	
* Update Feed URL	https://www.cisco.com/web/secure/spa/posture-update.xml	
Proxy Address	(i)	
Proxy Port	HH MM SS	
Automatically che	ck for updates starting from initial delay 20 🔻 49 💌 18 🔻	every
Save	date Now Reset	

# Update Information 2020/02/02 20:44:27 Last successful update on 2020/02/02 20:44:27 Last update status since ISE was started Last update attempt at 2020/02/02 20:44: Cisco conditions version 257951.0.0.0 Cisco AV/AS support chart version for windows 227.0.0.0 Cisco AV/AS support chart version for Mac OSX 148.0.0.0 Cisco supported OS version 49.0.0.0

Paso 2. Cargue el módulo de cumplimiento. Vaya a **Directiva > Elementos de directiva > Resultados > Aprovisionamiento de cliente > Recursos**. Haga clic en **Agregar** y seleccione **Recursos de agente del sitio de Cisco** 

Download Remote Resources	
Name 🔺	Description
AgentCustomizationPackage 1.1.1.6	This is the NACAgent Customization
AnyConnectComplianceModuleOSX 3.6.11682.2	AnyConnect OS X Compliance Modul
AnyConnectComplianceModuleOSX 4.3.972.4353	AnyConnect OSX Compliance Module
AnyConnectComplianceModuleWindows 3.6.11682.2	AnyConnect Windows Compliance M
AnyConnectComplianceModuleWindows 4.3.1053.6145	AnyConnect Windows Compliance M
CiscoTemporalAgentOSX 4.8.03009	Cisco Temporal Agent for OSX With C
CiscoTemporalAgentWindows 4.8.03009	Cisco Temporal Agent for Windows V
ComplianceModule 3.6.11428.2	NACAgent ComplianceModule v3.6.1
MACComplianceModule 3.6.11428.2	MACAgent ComplianceModule v3.6.1
MacOsXAgent 4.9.4.3	NAC Posture Agent for Mac OSX v4.9
MacOsXAgent 4.9.5.3	NAC Posture Agent for Mac OSX v4.9
MacOsXSPWizard 1.0.0.18	Supplicant Provisioning Wizard for Ma
MacOsXSPWizard 1.0.0.21	Supplicant Provisioning Wizard for Ma
MacOsXSPWizard 1.0.0.27	Supplicant Provisioning Wizard for Ma
MacOsXSPWizard 1.0.0.29	Supplicant Provisioning Wizard for Ma
MacOsXSPWizard 1.0.0.30	Supplicant Provisioning Wizard for Ma
	0
For AnyConnect software, please download from http://cisco.com	loolanyconnect. Use the "Agent reso
option, to import into ISE	geranjeenneen een migenereen

Paso 3. Descargue AnyConnect de <u>Cisco Software Download</u> y cárguelo en ISE. Vaya a **Directiva** > **Elementos de directiva** > **Resultados** > **Aprovisionamiento de cliente** > **Recursos**.

Haga clic en Add y seleccione Agent Resources From Local Disk. Elija Cisco Provided Packages en Category, seleccione el paquete de AnyConnect del disco local y haga clic en Submit.

#### Agent Resources From Local Disk > Agent Resources From Local Disk

Agent Resources From Local Disk

Category	Cisco Provided Packages Browse anyconnect-win-	4.7.010	▼ () 76-webdeploy-k9.pkg		
	AnyConnect Uploaded Res Name	source	s Type	Version	Description
	AnyConnectDesktopWindows 4.	.7.10	AnyConnectDesktopWindows	4.7.1076.0	AnyConnect Secu



Paso 4. Crear perfil de postura de AnyConnect. Vaya a **Directiva > Elementos de directiva > Resultados > Aprovisionamiento de cliente > Recursos**.

Haga clic en **Agregar** y seleccione **Perfil de postura de AnyConnect**. Rellene el nombre y el protocolo de posición.

Bajo \*Server name rules put \* y put any dummy IP address under Discovery host.

ISE Posture	Agent Profile Settings > AC_Posture_Profile
* Name: Description	AC Posture Profile

#### **Posture Protocol**

Parameter	Value	Notes	Description
PRA retransmission time	120 secs		This is the agent retry period if failure
Discovery host	1.2.3.4		The server that the agent shou
* Server name rules	*	need to be blank by default to force admin to enter a value. "*" means agent will connect to all	A list of wildcarded, comma-se agent can connect to. E.g. **.ci
Call Home List		List of IP addresses, FQDNs with or without port must be comma-separated and with colon in between the IP address/FQDN and the port. Example: IPaddress/FQDN:Port (Port number should be the same, specified in the Client Provisioning portal)	A list of IP addresses, that defi will try to connect to if the PSN some reason.
Back-off Timer	30 secs	Enter value of back-off timer in seconds, the supported range is between 10s - 600s.	Anyconnect agent will continue targets and previously connect max time limit is reached

Paso 5. Vaya a **Directiva > Elementos de directiva > Resultados > Aprovisionamiento de cliente > Recursos** y cree la **configuración de AnyConnect**. Haga clic en **Agregar** y seleccione **Configuración de AnyConnect**. Seleccione el paquete **AnyConnect**, proporcione el nombre de la configuración, seleccione el **módulo de cumplimiento**, verifique la herramienta de diagnóstico e informes, seleccione el perfil de postura y haga clic en Guardar.

* Select AnyConnect Package	AnyConnectDesktopWindows 4.7.1076.0	
* Configuration Name	AC CF 47	
Description:		

#### **DescriptionValue**

\* Compliance Module AnyConnectComplianceModuleWindows 4.3.1012

#### AnyConnect Module Selection

ISE Posture VPN Network Access Manager Web Security AMP Enabler ASA Posture Network Visibility Umbrella Roaming Security Start Before Logon Diagnostic and Reporting Tool

Profile Selection	
* ISE Posture	AC_Posture_Profile
VPN	
Network Access Manager	
Web Security	
AMP Enabler	
Network Visibility	
Umbrella Roaming Security	
Customer Feedback	

Paso 6. Navegue hasta **Policy > Client Provisioning** y cree **Client Provisioning Policy**. Haga clic en **Edit** y luego seleccione **Insert Rule Above**, proporcione el nombre, seleccione OS y elija **AnyConnect Configuration** que se creó en el paso anterior.

 sco	Ident	ity Services Engine	Home	► Contex	t Visibility	Operations	▼Policy	•	Administration	Work Centers		
Policy	Sets	Profiling Posture	Client Provisio	oning 🕨	Policy Elemen	nts	-					
lant	Droud	sioning Dolicy										
finat	PIOVE	st Bradicioning Policy	o dotormino who	tunore will	receive upon	login and upor a	annian initiat	ion:				
or Age	ent Conf	figuration: version of ag	ent, agent profile	e, agent cor	npliance mod	ule, and/or agen	t customizatio	on pac	kage.			
or Nati	ive Sup	plicant Configuration: v	vizard profile and	Vor wizard.	Drag and drop	rules to change	e the order.					
•												
		Rule Name		Identity G	roups	Operating Sys	stems		Other Condition	IS		Results
	2	AC_47_Win	If	Any	and	Windows All		and	Condition(s)		then	AC_CF_47
	2	IOS	H	Any	and	Apple iOS All		and	Condition(s)		then	Cisco-ISE-NSP
	<b>1</b>	Android	lf	Any	and	Android	1	and	Condition(s)		then	Cisco-ISE-NSP
	2	Windows	н	Any	and	Windows All	9	and	Condition(s)		then	CiscoTemporalAgentW ndows 4.7.00135 And WinSPWizard 2.5.0.1 And Cisco-ISE-NSP
		MAC OS	If	Any	and	Mac OSX	3	and	Condition(s)		then	CiscoTemporalAgentO SX 4.7.00135 And MacOsXSPWizard 2.1.0.42 And Cisco-ISE NSP
1	<b>~</b>	Chromebook	If	Any	and	Chrome OS A	NI I	and	Condition(s)		then	Cisco-ISE-Chrome- NSP

Paso 7. Cree la condición de postura en **Política > Elementos de política > Condiciones > Condición > Condición > Condición anti-malware**. En este ejemplo, se utiliza "ANY\_am\_win\_inst" predefinido.

•



Paso 8. Navegue hasta **Política > Elementos de política > Resultados > Postura > Acciones de remediación** y cree **remediación de postura**. En este ejemplo, se omite. La acción de remediación puede ser un mensaje de texto.

Paso 9. Navegue hasta **Política > Elementos de Política > Resultados > Postura > Requisitos** y cree **Requisitos de Postura**. Requisito predefinido Se utiliza Any\_AM\_Installation\_Win.

cisco Identity Services Engine	Home	Operations - Policy	Administration     Work Centers	
Policy Sets Profiling Posture Cl	ient Provisioning   Policy Elements			
Dictionaries + Conditions - Resul	ts			
0				
Authentication	Paguiramanta			
Authorization	Name	Operating Systems Conditions	Compliance Module Remediation Actions	Posture
▶ Profiling	Any_AV_Definition_Mac	for Mac OSX	using 3.x or earlier	using AnyConnect
▼ Posture	AnyAVDefRemediationMa c			
- Remediation Actions	Any_AS_Installation_Mac Message Text Only	for Mac OSX	using 3.x or earlier	using AnyConnect
Requirements	Any_AS_Definition_Mac	for Mac OSX	using 3.x or earlier	using AnyConnect
Client Provisioning	AnyASDefRemediationMa c			
	Any_AM_Installation_Win Message Text Only	for Windows All	using 4.x or later	using AnyConnect
	Any_AM_Definition_Win AnyAMDefRemediationWi n	for Windows All	using 4.x or later	using AnyConnect
	Any_AM_Installation_Mac Message Text Only	for MacOSX	using 4.x or later	using AnyConnect
	Any_AM_Definition_Mac AnyAMDefRemediationM	for Mac OSX	using 4.x or later	using AnyConnect

Paso 10. Cree políticas de postura en **Políticas > Postura**. Se utiliza la política de estado predeterminada para cualquier comprobación de AntiMalware para el SO Windows.

alta CISC	klentity S	Services Engine	Home + Context Visibili	ty + Operations		ration + Work Centers			
Po	licy Sets P	Profiling Postur	e Client Provisioning + Poli	oy Elements					
Pos	ture Policy								
Uen v	ne the Postur	e Policy by config	juring rules based on operating sy	stem and/or other cor	nortions.				
	Status	Policy Options	Rule Name	Identity Groups	Operating Systems	Compliance Modul	e Posture Type	Other Conditions	
	0	Policy Options	Default_AntiMalware_Policy If _Mac	Any	and Mac OSX	and 4.x or later	and AnyConnect	and	ther
	0	Policy Options	Default_AntiMalware_Policy If _Mac_temporal	Any	and Mac OSX	and 4.x or later	and Temporal Agent	and	the
		Policy Options	Default_AntiMalware_Policy II _Win	Any	and Windows All	and 4.x or later	and AnyConnect	and	the
	0	Policy Options	Default_AntiMalware_Policy If _Win_temporal	Алу	and Windows All	and 4 x or later	and Temporal Agent	and	ther
	0	Policy Options	Default_AppVis_Policy_Mac II	Any	and Mac OSX	and 4.x or later	and AnyConnect	and	the

Paso 11. Navegue hasta **Política > Elementos de política > Resultados > Autorización > ACL descargables y** cree DACL para diferentes estados de estado.

En este ejemplo:

- DACL de estado desconocido: permite el tráfico a DNS, PSN y HTTP y HTTPS.
- DACL de condición no conforme: deniega el acceso a las subredes privadas y permite únicamente el tráfico de Internet.
- Permitir todas las DACL: permite todo el tráfico para el estado de cumplimiento de condición.

#### Downloadable ACL List > PostureNonCompliant1

Downloadabl	e ACL
* Name	PostureUnknown
Description	
IP version	● IPv4 C IPv6 C Agnostic ④
* DACL Content	1234567       permit udp any any eq domain         8910111       permit ip any host 192.168.15.14         2131415       permit tcp any any eq 80         1617181       permit tcp any any eq 443         9202122       2324252         6272829       3031323         3343536       3738394

#### Downloadable ACL List > New Downloadable ACL

#### Downloadable ACL

* Name	PostureNonCompliant
Description	
IP version	● IPv4 C IPv6 C Agnostic ④
* DACL Content	1234567       deny jp any 10.0.0.255.0.0.0         8910111       deny jp any 172.16.0.0.255.240.0.0         2131415       deny jp any 192.168.0.0.255.255.0.0         1617181       permit jp any any         9202122       2324252         6272829       3031323         33343536       3738394

Downloadable A Downloadable	CL List > New Downloadable ACL ACL
* Name	PermitAll
Description	
IP version	⊙ IPv4 C IPv8 C Agnostic (i)
* DACL Content	123456       permit jg any any         7891011       121314         121314       151617         181920       212223         242526       272829         303132       333435
	► Check DACL Syntax

Paso 12. Cree tres perfiles de autorización para los estados Postura desconocida, Postura no conforme y Postura conforme. Para hacerlo, navegue hasta **Política > Elementos de Política > Resultados > Autorización > Perfiles de Autorización**. En el perfil **Posture Unknown**, seleccione **Posture Unknown DACL**, verifique **Web Redirection**, seleccione **Client Provisioning**, proporcione un nombre de ACL de redirección (que se configura en FTD) y seleccione el portal.

Authorization F	Profiles >	New Aut	horization Profile
-----------------	------------	---------	--------------------

Authorization Profile		
* Name	FTD-VPN-Redirect	
Description		
* Access Type	ACCESS_ACCEPT	
Network Device Profile	💼 Cisco 👻 🕀	
Service Template		
Track Movement		
Passive Identity Tracking		
▼ Common Tasks		
DACL Name	PostureUnknown 📀	]
Web Redirection (CWA, M Client Provisioning (Post	IDM, NSP, CPP) (i) ure) - ACL fyusifovredirect	Value It
<ul> <li>Attributes Details</li> </ul>		
Access Type = ACCESS_ACCEPT DACL = PostureUnknown cisco-av-pair = url-redirect-acl=fyusifov cisco-av-pair = url-redirect=https://ip:	redirect port/portal/gateway?sessionId=SessionIdValue&portal=27b1bc30-2e58-11	e9-98fb-0050568775a3&act

En el perfil **Posture NonCompliant**, seleccione **DACL** para limitar el acceso a la red.

#### Authorization Profiles > New Authorization Profile

Authorization Profile	
* Name	FTD-VPN-NonCompliant
Description	
* Access Type	ACCESS_ACCEPT
Network Device Profile	deb Cisco 🔻 🕀
Service Template	
Track Movement	
Passive Identity Tracking	
▼ Common Tasks	
DACL Name	PostureNonCompliant 📀
<ul> <li>Attributes Details</li> </ul>	
Access Type = ACCESS_ACCEPT DACL = PostureNonCompliant	

En el perfil **Posture Compliant**, seleccione **DACL** para permitir el acceso completo a la red.

#### Authorization Profiles > New Authorization Profile

Authorization Profile	
* Name	PermitAll
Description	
* Access Type	ACCESS_ACCEPT
Network Device Profile	🗱 Cisco 👻 🕀
Service Template	
Track Movement	
Passive Identity Tracking	
Common Tasks	
DACL Name	PermitAll 📀
<ul> <li>Attributes Details</li> </ul>	
Access Type = ACCESS_ACCEPT DACL = PermitAll	

Paso 13. Cree Políticas de Autorización en **Política > Conjuntos de Políticas > Predeterminado > Política de Autorización**. Como condición se utiliza Estado de postura y Nombre de grupo de túnel VPN.

lde	ntity Serv	rices Engine	Home + C	ontext Vis	ibility	<ul> <li>Operations</li> </ul>		<ul> <li>Administration</li> </ul>	• Work Cer	nters		
olicy Se	ts Profil	ling Posture	Client Provisionin	g ⊧Po	licy Elem	ients						
	0	Default		Default p	olicy set							
Authe	entication	Policy (3)										
Autho	orization F	Policy - Local Exc	eptions									
Autho	orization F	Policy - Global Ex	ceptions									
Autho	orization F	Policy (18)										
										Results		
•	Status	Rule Name		Condit	ions					Profiles		Se
Search												
					ĥ;	Session-Posture	Status EQUA	LS Compliant				
	$\odot$	FTD-VPN-Postur	e-Compliant	AND	٤	Cisco-VPN3000 Name EQUALS	CVPN3000/A EmployeeVPI	SA/PIX7x-Tunnel-Grou N	ip-	(× PermitAII)	+	S
					ĥ	Session-Posture	Status EQUA	LS NonCompliant				
	0	FTD-VPN-Postur	e-NonCompliant	AND	ĥ	Cisco-VPN3000 Name EQUALS	CVPN3000/A EmployeeVPI	SA/PIX7x-Tunnel-Grou N	ip-	× FTD-VPN-NonCompliant	+	S
					Ê;	Session-Posture	Status EQUA	LS Unknown				
	$\odot$	FTD-VPN-Postur	e-Unknown	AND	£;	Cisco-VPN3000 Name EQUALS	CVPN3000/A EmployeeVPI	SA/PIX7x-Tunnel-Grou	ip-	× FTD-VPN-Redirect	+	S

### Verificación

Utilize esta sección para confirmar que su configuración funcione correctamente.

En ISE, el primer paso de verificación es RADIUS Live Log. Vaya a **Operaciones > Registro de actividad de RADIUS**. Aquí, el usuario Alice está conectado y se selecciona la política de autorización esperada.

alco Identity Services c	ingine Home I	<ul> <li>Context Visibility</li> </ul>	<ul> <li>Operations</li> </ul>	Policy → Ar	dministration 💦 🔸 Work Ce	nters					
+RADIUS Threat-Cer	ntric NAC Live Logs	TACACS + Trout	bleshoot + Ad	aptive Network Control	Reports						
Live Logs Live Sessio	ns										
	Misconfigure	ed Supplicants ()	M	lisconfigured Network	Devices ()	RADIUS Dro	ops O	Cli	ent Stopped Res	ponding 0	
		0		0		0			0		
									Refr	esh Never	
C Refresh O Reset	Repeat Counts 🛛 🛓 E	xport To 🕶							Refr	esh Never	
C Refresh O Reset	Repeat Counts 🛛 🛓 E Status	xport To • Details	Repeat	identity	Endpoint ID	Endpoint Pr	Authenticat	Authorizati	Refr Authorizati	esh Never	
C Refresh O Reset	Repeat Counts 🛃 E Status	xport To • Details	Repeat	identity Identity	Endpoint ID Endpoint ID	Endpoint Pr	Authenticat	Authorizati	Refr Authorizati	P Address	
C Refresh O Reset Time X Feb 03, 2020 07:1	Repeat Counts de E Status 13:31.92	xport To • Details	Repeat	Identity Identity alice@taining.e	Endpoint ID Endpoint ID 00:00:29:50:5A:95	Endpoint Pr Endpoint Prk Windows10	Authenticat Authenticatik Default >>	Authorizati Authorization Default >>	Refr Authorizati Authorization FTD-VPN-R	IP Address IP Address IP Address 172.16.1.10	
C Refresh O Reset Time X Feb 03, 2020 07:1 Feb 03, 2020 07:1	Repeat Counts 🕹 E Status 13:31.92	Details	Repeat	Identity Identity alice@training.e #ACSACL#-IP-P	Endpoint ID Endpoint ID 00:00:29:50:5A:96	Endpoint Pr Endpoint Prt Windows10	Authenticat Authenticatik Default >>	Authorizati Authorization Default >>	Refr Authorizati Authorizatior FTD-VPN-R	IP Address IP Address IP Address 172.16.1.10	

Last Updated: Mon Feb 03 2020 08:16:39 GMT+0100 (Central European Standard Time)

La política de autorización FTD-VPN-Posture-Unknown coincide y, como resultado, FTD-VPN-Profile se envía a FTD.

0verview		
Event	5200 Authentication succeeded	
Username	alice@training.example.com	
Endpoint Id	00:0C:29:5C:5A:96 ⊕	
Endpoint Profile	Windows10-Workstation	
Authentication Policy	Default >> Default	]
Authorization Policy	Default >> FTD-VPN-Posture-Unknown	
Authorization Result	FTD-VPN-Redirect	

Authentication Details							
Source Timestamp	2020-02-03 07:13:29.738						
Received Timestamp	2020-02-03 07:13:29.738						
Policy Server	fyusifov-28-3						
Event	5200 Authentication succeeded						
Username	alice@training.example.com						

#### Estado de estado pendiente.

192.168.15.15
Virtual
FTD-VPN-Redirect
Pending
365 milliseconds

La sección Resultado muestra qué atributos se envían al FTD.

Result	
Class	CACS:000000000000005e37c81a:fyusifov-26-3/368560500/45
cisco-av-pair	url-redirect-acl=fyusifovredirect
cisco-av-pair	url-redirect=https://fyusifov-26-3.example.com:8443/portal /gateway?sessionId=000000000000005e37c81a& portal=27b1bc30-2e58-11e9-98fb-0050568775a3&action=cpp& token=0d90f1cdf40e83039a7ad6a226603112
cisco-av-pair	ACS:CiscoSecure-Defined-ACL=#ACSACL#-IP-PostureUnknown-5e37414d
cisco-av-pair	profile-name=Windows10-Workstation
LicenseTypes	Base and Apex license consumed

En FTD, para verificar la conexión VPN, SSH al equipo, ejecute **system support diagnostic-cli** y luego **show vpn-sessiondb detail anyconnect**. A partir de esta salida, verifique que los atributos enviados desde ISE se apliquen para esta sesión VPN.

```
<#root>
fyusifov-ftd-64#
show vpn-sessiondb detail anyconnect
Session Type: AnyConnect Detailed
            : alice@training.example.com
Username
Index
            : 12
Assigned IP : 172.16.1.10
           Public IP
                      : 10.229.16.169
Protocol
            : AnyConnect-Parent SSL-Tunnel DTLS-Tunnel
            : AnyConnect Premium
License
           : AnyConnect-Parent: (1)none SSL-Tunnel: (1)AES-GCM-256 DTLS-Tunnel: (1)AES256
Encryption
Hashing
            : AnyConnect-Parent: (1)none SSL-Tunnel: (1)SHA384 DTLS-Tunnel: (1)SHA1
Bytes Tx
            : 15326
                                     Bytes Rx
                                              : 13362
Pkts Tx
            : 10
                                     Pkts Rx
                                                  : 49
Pkts Tx Drop : 0
                                     Pkts Rx Drop : 0
Group Policy : DfltGrpPolicy
Tunnel Group : EmployeeVPN
Login Time : 07:13:30 UTC Mon Feb 3 2020
Duration
           : 0h:06m:43s
Inactivity : 0h:00m:00s
VLAN Mapping : N/A
                                     VLAN
                                                  : none
Audt Sess ID : 0000000000000005e37c81a
Security Grp : none
                                     Tunnel Zone : 0
AnyConnect-Parent Tunnels: 1
SSL-Tunnel Tunnels: 1
DTLS-Tunnel Tunnels: 1
```

AnyConnect-Parent: Tunnel ID : 12.1 Public IP : 10.229.16.169 Encryption : none Hashing : none TCP Src Port : 56491 TCP Dst Port : 443 : userPassword Auth Mode Idle Time Out: 30 Minutes Idle TO Left : 23 Minutes Client OS : win Client OS Ver: 10.0.18363 Client Type : AnyConnect Client Ver : Cisco AnyConnect VPN Agent for Windows 4.7.01076 Bytes Tx : 7663 Bytes Rx : 0 Pkts Tx : 5 Pkts Rx : 0 Pkts Tx Drop : 0 Pkts Rx Drop : 0 SSL-Tunnel: Tunnel ID : 12.2 Assigned IP : 172.16.1.10 Public IP : 10.229.16.169 Encryption : AES-GCM-256 Hash: Ciphersuite : ECDHE-RSA-AES256-GCM-SHA384 Hashing : SHA384 Encapsulation: TLSv1.2 TCP Src Port : 56495 TCP Dst Port : 443 Auth Mode : userPassword Idle Time Out: 30 Minutes Idle TO Left : 23 Minutes Client OS : Windows Client Type : SSL VPN Client Client Ver: Cisco AnyConnect VPN Agent for Windows 4.7.01076Bytes Tx: 7663Bytes Rx: 592 Pkts Tx Pkts Rx : 5 : 7 Pkts Tx Drop : 0 Pkts Rx Drop : 0 Filter Name : #ACSACL#-IP-PostureUnknown-5e37414d DTLS-Tunnel: Tunnel ID : 12.3 Assigned IP : 172.16.1.10 Public IP : 10.229.16.169 Encryption : AES256 Hashing : SHA1 Ciphersuite : DHE-RSA-AES256-SHA Encapsulation: DTLSv1.0 UDP Src Port : 59396 UDP Dst Port : 443 Auth Mode : userPassword Idle Time Out: 30 Minutes Idle TO Left : 29 Minutes : Windows Client OS Client Type : DTLS VPN Client Client Ver : Cisco AnyConnect VPN Agent for Windows 4.7.01076 Bytes Tx : 0 Bytes Rx : 12770 Pkts Tx Pkts Rx : 0 : 42 Pkts Tx Drop : 0 Pkts Rx Drop : 0

Filter Name : #ACSACL#-IP-PostureUnknown-5e37414d

#### ISE Posture:

Redirect URL : https://fyusifov-26-3.example.com:8443/portal/gateway?sessionId=0000000000000005e37c81 Redirect ACL : fyusifovredirect

fyusifov-ftd-64#

Se pueden verificar las políticas de aprovisionamiento de clientes. Vaya a **Operaciones > Informes > Terminales y usuarios > Aprovisionamiento del cliente**.

dente Identity Services Engine	Home + Context Visibi	lity Operations Po	licy + Administration + Work Centers		
RADIUS Threat-Centric NAC Live	e Logs + TACACS + T	roubleshoot + Adaptive Netv	vork Control Reports		
Export Summary • My Reports	Client Provisioning C From 2020-02-03 00:00: Reports exported in last	00.0 to 2020-02-03 08:14:07.0 days 0			
- Reports					
+ Audit	Logged At	Server	Event	Identity	Endpoint ID
Device Administration	Today	×		Identity	Endpoint ID
Diagnostics	2020-02-03 08:06:4	fyusifov-28-3	Client provisioning succeeded	alice@training.example.com	00:0C:29:5C:5A:96
Endpoints and Users	•				
Authentication Summary					
Client Provisioning Current Active Sessions					

El informe de estado enviado desde AnyConnect se puede comprobar. Vaya a **Operaciones > Informes > Terminales y usuarios > Evaluación de estado por terminal**.



Para ver más detalles sobre el informe de estado, haga clic en Detalles.

#### dentity Services Engine

#### **Posture More Detail Assessment**

From 2020-01-04 00:00:00.0 to 2020-02-03 08:13:36.0 Generated At: 2020-02-03 08:13:37.37

#### **Client Details**

٨N	/ Installed	Windows De
AS	S Installed	
AV	/ Installed	
Us	er Domain	DESKTOP-I
Sy	stem User	admin
	System Domain	n/a
	System Name	DESK
	User Agreement Status	NotEr
	PRA Action	N/A
	PRA Interval	0
	PRA Grace Time	0
	CoA	Recei
	PRA Enforcement	0
	Client NAC Agent	AnyCo
	Client Operating System	Windo
	Session ID	00000
	Location	All Lo
	IP address	172.1
	Mac Address	00:00
	Username	alice(

Posture Report						
Posture Status				Compliant		
Logged At				2020-02-03 08:07:5	0.03	
Posture Policy Details						
Policy	Name	Enforcement Type	Status		Passed Conditions	
Default_AntiMalware_Policy_Win	Any_AM_Installation_Win	Mandatory	Passed		am_inst_v4_ANY_vendor	

Una vez recibido el informe sobre ISE, se actualiza el estado. En este ejemplo, el estado de estado es compatible y CoA Push se activa con un nuevo conjunto de atributos.

C F	Refresh 🛛 💿 Reset Repeat Cour	nts 🛛 💆 Export To	-	
	Time	Status	Details	Rep
×		•		
	Feb 03, 2020 08:07:52.05	<b>~</b>	0	
	Feb 03, 2020 08:07:50.03	1	Q	0
	Feb 03, 2020 07:13:29.74		0	
	Feb 03, 2020 07:13:29.73		Q	

Last Updated: Mon Feb 03 2020 09:10:20 GMT+0100 (Central European Sta

)verview	
Event	5205 Dynamic Authorization succeeded
Username	
Endpoint Id	10.55.218.19 ⊕
Endpoint Profile	
Authorization Result	PermitAll

# Authentication Details

Source Timestamp	2020-02-03 16:58:39.687
Received Timestamp	2020-02-03 16:58:39.687
Policy Server	fyusifov-26-3
Event	5205 Dynamic Authorization succeeded
Endpoint Id	10.55.218.19
Calling Station Id	10.55.218.19
Audit Session Id	000000000000005e385132
Network Device	FTD
Device Type	All Device Types
Location	All Locations
NAS IPv4 Address	192.168.15.15
Authorization Profile	PermitAll
Posture Status	Compliant
Response Time	2 milliseconds

Uno de los problemas comunes, cuando hay un túnel de escupir se configura. En este ejemplo, se utiliza la directiva de grupo predeterminada, que establece túneles para todo el tráfico. En caso de que solo se tunelice tráfico específico, los sondeos de AnyConnect (enroll.cisco.com y host de detección) deben pasar a través del túnel, además del tráfico a ISE y otros recursos internos.

Para verificar la política de túnel en FMC, primero, verifique qué política de grupo se utiliza para la conexión VPN. Vaya a **Devices > VPN Remote Access**.

Overview Analysis	Policies Device	s Objects	AMP	Intelligence			
Device Management	NAT VPN ► Re	emote Access	QoS	Platform Settings	FlexConfig	Certificates	
EmployeeVPN Enter Description							
Connection Profile	Access Interfaces	Advanced					
Name				888			Group Policy
DefaultWEBVPNGroup				Authentication: Authorization: Accounting:	None None None		DfltGrpPolicy
EmployeeVPN				Authentication: Authorization: Accounting:	ISE (RADIUS) ISE (RADIUS) ISE (RADIUS)		DfltGrpPolicy

Luego, navegue hasta **Objetos > Administración de objetos > VPN > Política de grupo** y haga clic en **Política de grupo** configurada para VPN.

(	Overview	Analysis	Policies	Devices	Objects	AMP Intellig	gence			
	Object Ma	nagement	Intrusi	ion Rules						
0	Group Pol	licy	J			Edit Group	Policy			
ŀ	A Group Poli	icy is a set of	attribute	and value pai	rs, stored in a	c Luic Group	roncy			
1	Geolog	ation	-	Name		Name:*	Dfl	ltGrpPol	icy	
	Interfa	ice		DfltGrpPolic	v	Description:				
	🏊 Key Cł	hain	L	Deathura Euro						
	Networ	rk		PostureExar	npieGP	Conoral	AnvCo	nnoct	Advanced	
C	> 🌽 PKI					General	AnyCo	mea	Advanced	
	Policy	List				VPN Protocol	S		IPv4 Split Tunneling:	Allow all traff
1	Port	List				Banner	1015		IPv6 Split Tunneling:	Allow all traff
	RADIU	IS Server Gro	up			DNS/WINS			Split Tunnel Network List Type:	Standard A
	Ø Route	Мар				Split Tunnelin	g		Standard Access List:	
t	🖉 🥏 Securit	ty Intelligence								
	Sinkho	le							DNS Request Split Tunneling	
	SLA Mo	onitor							DNS Requests:	Send DNS rea
	Time R	lange							Domain List:	
	C URL	Zone								
	\$ Variabl	le Set								
Ļ	S VI AN T	Tag								
ŀ	🖌 🧬 VPN									
Γ	🎁 Any	Connect File								
	R. Cer	tificate Map	_							
	Gro	The Policy	Issoe							
		Ev1 Policy	posar							
		V2 IPsec Prop	posal							
		Ev2 Policy	-			-				

• Identidad NAT

Otro problema común, cuando el tráfico de retorno de los usuarios de VPN se traduce con el uso de una entrada de NAT incorrecta. Para solucionar este problema, la identidad NAT debe crearse en un orden apropiado.

Primero, verifique las reglas NAT para este dispositivo. Navegue hasta **Devices > NAT** y luego haga clic en **Add Rule** para crear una nueva regla.

Ove	rview	Analysi	s Polici	ies	Device	es	Obj	ects		
Devi	ce Man	agement	NAT		VPN 🔻	Q	oS	Plat		
FTI Enter	FTD_11 Enter Description									
台 Filte	er by Devi	ice								
#	Direc	tion	Туре	So In	urce terface (	0b	D	estina iterfa		
▼ NA	NAT Rules Before									

En la ventana abierta, en la pestaña **Objetos de interfaz**, seleccione **Zonas de seguridad**. En este ejemplo, la entrada NAT se crea de **ZONE-INSIDE** a **ZONE-OUTSIDE**.

Add NAT Rule								
NAT Rule:	Manual NAT Rule		~	1	insert:	In Category		
Type:	Static		~	🗹 Enable	e			
Description:								
Interface Objects	Translation	PA	T Pool	Advand	ed			
Available Interface O	bjects 🖒				Source Interface O	bjects (1)		Destinat
🔍 Search by name					a ZONE-INSIDE		8	📩 ZONE
ZONE-INSIDE								
📩 ZONE-OUTSIDE			Ad	ld to				
				urce				
			Desti	ld to ination				

En la pestaña **Translation**, seleccione los detalles del paquete original y traducido. Como es identidad NAT, el origen y el destino se mantienen sin cambios:

# Edit NAT Rule

NAT Rule:	Man	ual NAT Ri	ule 💌	I			
Туре:	Stat	ic	<b>~</b>	🛛 🗹 Enable			
Description:							
Interface Objects	Trar	slation	PAT Pool	Advance			
Original Packet							
Original Source:*		any					
Original Destination:		Address VPN_Sub	net				
Original Source Port:							
Original Destination							

En la pestaña Advanced, marque las casillas de verificación como se muestra en esta imagen:

Manual NAT R	ule 💙	✓ Insert:			In Category	▼ N		
Static	~	🔽 Enable	nable					
Franslation	PAT Pool	Advanced						
Translate DNS replies that match this rule								
Fallthrough to Interface PAT(Destination Interface)								
IPv6								
Net to Net Mapping								
Do not proxy ARP on Destination Interface								
Perform Route Lookup for Destination Interface								
Unidirectional								
	Manual NAT R Static Translation that match th that match th the PAT(Destin Destination Ir o for Destinati	Manual NAT Rule	Manual NAT Rule  Inser Static Enable Translation PAT Pool Advanced that match this rule that match this rule that match this rule that match this rule for PAT(Destination Interface) Destination Interface o for Destination Interface	Manual NAT Rule VINSERT: Static VIE Enable Translation PAT Pool Advanced that match this rule the PAT(Destination Interface) Destination Interface of or Destination Interface	Manual NAT Rule Insert: Static Enable Translation PAT Pool Advanced that match this rule the PAT(Destination Interface) Destination Interface o for Destination Interface	Manual NAT Rule  Insert: In Category  Static  Translation PAT Pool Advanced that match this rule the PAT(Destination Interface) Destination Interface for Destination Interface		

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