# Configuración de la asignación de certificados para la autenticación de cliente seguro en FTD mediante FMC

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# Introducción

Este documento describe cómo configurar Cisco Secure Client con SSL en FTD a través de FMC utilizando la asignación de certificados para la autenticación.

# Prerequisites

## Requirements

Cisco recomienda que tenga conocimiento sobre estos temas:

- Cisco Firepower Management Center (FMC)
- Firewall Threat Defence (FTD) Virtual
- Flujo de autenticación VPN

## **Componentes Utilizados**

- Cisco Firepower Management Center para VMWare 7.4.1
- Cisco Firewall Threat Defence Virtual 7.4.1
- Cisco Secure Client 5.1.3.62

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.

## Antecedentes

La asignación de certificados es un método utilizado en conexiones VPN en las que un certificado de cliente se asigna a una cuenta de usuario local o los atributos del certificado se utilizan con fines de autorización. Se trata de un proceso en el que un certificado digital se utiliza como medio de identificar a un usuario o dispositivo. Mediante la asignación de certificados, aprovecha el protocolo SSL para autenticar a los usuarios sin necesidad de que introduzcan credenciales.

Este documento describe cómo autenticar Cisco Secure Client utilizando el nombre común de un certificado SSL.

Estos certificados contienen un nombre común que se utiliza para fines de autorización.

- CA: ftd-ra-ca-common-name
- Certificado de cliente VPN del ingeniero: vpnEngineerClientCN
- Certificado de cliente VPN del administrador: vpnManagerClientCN
- Certificado de servidor: 192.168.1.200

# Diagrama de la red

Esta imagen muestra la topología utilizada para el ejemplo de este documento.



Diagrama de la red

## Configuraciones

### Configuración en FMC

Paso 1. Configuración de la interfaz FTD

Vaya a Devices > Device Management, edite el dispositivo FTD de destino, configure la interfaz externa para FTD en la ficha Interfaces.

Para GigabitEthernet0/0,

- Nombre: fuera
- · Zona de seguridad: outsideZone
- Dirección IP: 192.168.1.200/24

Firewall Management Center Devices / Secure Firewall Interfaces	Overview	Analysis	Policies	Devices	Objects	Integration			Dep	loy Q	€ <	8	admin 🗸	cisco	SECURE
1.17.000.49 Cisco Firepower Threat Defense for VMware Device Routing Interfaces Int	Sove     Cancel       Isco Firepower Threat Defense for VMware     Device       Device     Routing       Interfaces     Inline Sets       DHCP     VTEP														
All Interfaces Virtual Tunnels	All Interfaces Virtual Tunnels Add Interfaces V														
Interface	Logical Name	Туре	Security	Zones	MAC Add	ress (Active/Standby)	IP Ad	dress		Path N	lonitoring	Virt	ual Router		
Management0/0	management	Physical			Disabled				be	Glo	Global		۹.⊲		
GigabitEthernet0/0	outside	Physical	outsideZ	one			192.1	68.1.200/24(Static)		Disable	be	Glo	bal		/

Interfaz FTD

Paso 2. Confirmar licencia de cliente seguro de Cisco

Vaya a Devices > Device Management, edite el dispositivo FTD de destino y confirme la licencia de Cisco Secure Client en la ficha Device.

Firewall Management Center Devices / Secure Firewall Device Summary	Overview Analys	is Policies Devices	Objects Integration		Deploy	् 🗳 🍄 ad	Imin ~ diada SEC	CURE
1. 1.149 Cisco Firepower Threat Defense for VMware		License		0				
Device Routing Interfaces Inline Sets	DHCP VTEP	License Types Performance Tier:	FTDv5 - 100 Mbps	•				A 1
General	1.1	Essentials:		n	n		ØG	
Name:	1.51613.4	Export-Controlled Features:			Cit	sco Firepower Threat Defer	ise for VMware	
Transfer Packets:	Ye	Malware Defense:				2024	9A33F35ANSU	
Mode:	Router	IPS:		ze	one:	2024-0 U	IG-14 07:38:47	
Compliance Mode:	None	Carrier:		n			7.4.1	
Performance Profile:	Defaul	URL:		Ze	one setting for	U	TC (UTC+0:00)	
TLS Crypto Acceleration:	Disable	Secure Client Premier:			tseu Rules.			
		Secure Client Advantage:						
OnBoarding Method:	Registration Ke	Secure Client VPN Only:						
enseering measure.	Neglation	If a device already has Secure Client VPI Secure Client Premier or Secure Client A has Secure Client Premier or Secure Clie	N Only they cannot have idvantage. If a device int Advantage it cannot					
Inspection Engine		have Secure Client VPN Only		g	jement		/	
Inspection Engine:	Snort			Cancel Save	Host Address:		1.11.11.49	
				d	lary Address:			

Licencia de cliente seguro

#### Paso 3. Agregar conjunto de direcciones IPv4

Vaya aObjeto > Administración de objetos > Conjuntos de direcciones > Conjuntos IPv4, haga clic en el botón Agregar grupos IPv4.

Firewall Managemer Objects / Object Managemer	t Center Overview Analysis Policies Devices Objects Integration	Deploy Q 🚱 🌣 🔕	admin ~ *drafts SECURE
> AAA Server	IPv4 Pools	Add IPv4 Pools Q. Filte	ør
Access List     Address Pools     IPv4 Pools	IPv4 pool contains list of IPv4 addresses, it is used for management/diagnostic interface with clustering, or for VPN remote access profiles.		
IPv6 Pools	Name	Value	Override
Application Filters AS Path	No records to display		
950 Template			

Agregar conjunto de direcciones IPv4

Introduzca la información necesaria para crear un conjunto de direcciones IPv4 para el cliente VPN de ingeniería.

- Nombre: ftd-vpn-engineering-pool
- Intervalo de direcciones IPv4: 172.16.1.100-172.16.1.110
- Máscara: 255.255.255.0

Name*	
ftd-vpn-engineer-pool	
Description	
IPv4 Address Range*	
172.16.1.100-172.16.1.110	
Format: ipaddr-ipaddr e.g., 10.72.1.1-10.72.1.150	
Mask*	
255.255.255.0	
Allow Overrides	
Configure device overrides in the address pool object to avoid IP address conflicts in case of object is shared across multiple devices	
<ul> <li>Override (0)</li> </ul>	
	Cancel Save

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Grupo de direcciones IPv4 para cliente VPN de ingeniero

Introduzca la información necesaria para crear un conjunto de direcciones IPv4 para el cliente VPN del administrador.

- Nombre: ftd-vpn-manager-pool
- Intervalo de direcciones IPv4: 172.16.1.120-172.16.1.130
- Máscara: 255.255.255.0

Name*			
ftd-vpn-manager-pool			
Description			
IPv4 Address Range*			
172.16.1.120-172.16.1.130			
Format: ipaddr-ipaddr e.g., 10.72.1.	.1-10.72.1.150		
Mask*			
255.255.255.0			
Allow Overrides			
Configure device overrides in the addre avoid IP address conflicts in case of ob multiple devices	ess pool object to bject is shared across		
<ul> <li>Override (0)</li> </ul>			
		Cancel	Save
Pool de Direcciones IPv4 para el Cliente VPN Mana	ager		
Confirme los nuevos conjuntos de direc	cciones IPv4.		
Firewall Management Center			

Objects / Object Managen	ent Genter	Overview	Analysis	Policies	Devices	Objects	Integration	Dep	loy	Q	6	¢ 0	ədmin $\sim$	cisco SECURE	
> AAA Server	IPv4 Poo	ols							Add IPv	4 Poo	ls	Q, Filte	Br		
> Access List															
✓ Address Pools	IPv4 pool con	IPv4 pool contains list of IPv4 addresses, it is used for management/diagnostic interface with cluatering, or for VPN remote access profiles.													
IPv4 Pools															
IPv6 Pools	Name							Value					Override		
Application Filters								170 16 1 100	170.1		_		-	4.7	
AS Path	na-vpn-engin	ieer-pool						172.10.1.100	-1/2.1	0.1.11	, N		0	/ •	
BFD Template	ftd-vpn-mana	ager-pool						172.16.1.120	-172.1	6.1.13	0		0	11	
Cipher Suite List															



## Paso 4. Agregar directiva de grupo

Vaya aObjeto > Administración de objetos > VPN > Directiva de grupo, haga clic enAgregar directiva de grupo.

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Agregar directiva de grupo

Introduzca la información necesaria para crear una directiva de grupo para el cliente VPN de ingeniero.

- Nombre: ftd-vpn-engineering-grp
- Protocolos VPN: SSL

Add Group Policy		0
Name:* ftd-vpn-engineer-gr	p	
Description:		
General Secure	Client Advanced	
VPN Protocols IP Address Pools	VPN Tunnel Protocol: Specify the VPN tunnel types that user can use. At least one tunneling m	iode
Banner	SSL	
DNS/WINS	IPsec-IKEv2	
Split Tunneling		

Directiva de grupo para el cliente VPN del ingeniero

Introduzca la información necesaria para crear una directiva de grupo para el cliente VPN de administrador.

- Nombre: ftd-vpn-manager-grp
- Protocolos VPN: SSL

## Add Group Policy

Name:* ftd-vpn-manager-g	np
Description:	
General Secure	Client Advanced
VPN Protocols	VPN Tunnel Protocol:
IP Address Pools	Specify the VPN tunnel types that user can use. At least one tunneling mode must be configured for users to connect over a VPN tunnel.
Banner	SSL SSL
DNS/WINS	IPsec-IKEv2
Split Tunneling	
irectiva de grupo para Manag	er VPN Client

#### Confirme las nuevas directivas de grupo.

Firewall Managemen Objects / Object Managemen	nt Center	Overview	Analysis	Policies	Devices	Objects	Integration	Deploy	Q	¢	¢ (	admin ~	cisco SECURE
> PKI													
Policy List	Group Po	olicy						Add G	roup Pe	dicy	Q, Fil	iter	
Port													
> Prefix List	A Group Policy current connect	is a set of att	ribute and valu	e pairs, stored	in a group p	olicy object, th	at define the remote access VPN experience. The RADIUS authoriz	ation serve	er assig	ins the o	proup p	policy or it is ob	tained from the
Route Map		ineri presider											
> Security Intelligence	Name												
Sinkhole	DfltGroPolicy												1=
SLA Monitor	United privately												· · ·
Time Range	ftd-vpn-engine	er-grp											11
Time Zone	ftd-vpn-manag	ger-grp											11
Tunnel Zone													

Nuevas políticas de grupo

#### Paso 5. Agregar certificado FTD

Navegue hastaObjeto > Administración de objetos > PKI > Inscripción de certificados, haga clic en el botón Agregar inscripción de certificados.

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Agregar inscripción de certificados

Introduzca la información necesaria para el certificado de FTD e importe un archivo PKCS12 desde el equipo local.

- Nombre: ftd-vpn-cert
- Tipo de inscripción: archivo PKCS12

## Add Cert Enrollment

Name* ftd-vpn-cert
Description
This certificate is already enrolled on devices.Remove the enrolment from         Device>Certificate page to edit/delete this Certificate.         CA Information       Certificate Parameters       Key       Revocation
Enrollment Type:       PKCS12 File         PKCS12 File*:       ftdCert_pfx         Browse PKCS12 File         Passphrase*:
Validation Usage: Validation Usage: Skip Check for CA flag in basic constraints of the CA Certificate
Cancel Save
etalles de la inscripcion de certificados

## Confirme la inscripción del nuevo certificado.

Chieven Constant Cons	nt Center Overview Analysis Policies Devices Objects In	integration Deploy Q 🚱 🌣 🕢 admin 🗸 👘 SECURE											
Cipher Suite List	0												
> Community List	ert Enrollment Q.												
DHCP IPv6 Pool	A certificate annulment object contains the Certification Authority (CA) server information	n and enrollment narameters that are required for creating Certificate Signing Requests (CSDs) and obtaining Identity											
> Distinguished Name	A certificate enrolment object contains the Gertification Authority (CA) server information and enrolment parameters that are required for creating Certificate Signing Requests (CSRs) and obtaining Identity Certificates from the specified CA. These activities occur in your Private Key Infrastructure (PKI).												
DNS Server Group													
> External Attributes	Name	Type Override											
File List	ftd-vpn-cert	PKCS12 File											
> FlexConfig													

Inscripción de nuevos certificados

Navegue hasta Dispositivos > Certificados, haga clic en el botón Agregar.

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Fi De	rewall Manageme vices / Certificates	nt Center	Dverview	Analysis	Policies	Devices	Objects	Integration		Deploy	Q	¢	¢ 0	admin $\checkmark$	cisco SECURE
Filter All Certi	ficates	×													Add
Name		Domain	Enrollment	Type	Identity Certifi	icate Expiry		CA Certificate Expiry	Status						
	No certificates Add Certificates														^

Agregar certificado FTD

Introduzca la información necesaria para enlazar la inscripción del nuevo certificado al FTD.

- Dispositivo: 1.x.x.49
- Inscripción de certificados: ftd-vpn-cert

## Add New Certificate

Add a new certificate to the device using cert enrollment object which is used to generate CA and identify certificate.

Device*:		
1.1541.0.49	*	)
Cert Enrollment*:		
ftd-vpn-cert	Ŧ	] -

Cert Enrollment Details:

Name:	ftd-vpn-cert
Enrollment Type:	PKCS12 file
Enrollment URL:	N/A



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Enlazar certificado a FTD

#### Confirme el estado del enlace del certificado.

G	Firewall Manageme Devices / Certificates	ent Center	Overview	Analysis	Policies	Devices	Objects	Integration		Deploy	۹	¢	¢ 6	) a	dmin ~	diada SE	CURE
Fi	lter All Certificates	¥														A	sd
	Name	Domain	Enrollment	Туре	Identity Certifica	te Expiry		CA Certificate Expiry	Status								
	∨ <b>con</b> 1.5.3 k.5.49														<b></b>		^
	ftd-vpn-cert	Global	PKCS12 file		Jun 16, 2025			Jun 16, 2029	CA LD						± ₽ 0	Ì	

Estado de vinculación de certificados

Paso 6. Agregar asignación de directiva para perfil de conexión de ingeniero

Navegue hasta Devices > VPN > Remote Access, haga clic enAddbutton.

Firewall Management Center Overview Analy Devices / VPN / Remote Access	Policies Devices Objects Integration		Deploy Q 💕 🌣 🔞	admin ~ alterite SECURE				
				Add				
Name	Status	Last Modified						
No configuration available Add a new configuration								

Agregar VPN de acceso remoto

Introduzca la información necesaria y haga clic enSiguiente botón.

- Nombre: ftd-vpn-engineering
- Protocolos VPN: SSL
- Dispositivos objetivo: 1.x.x.49

Firewall Management Center Overview Analysis Policies Devices Objects Integration	Deploy Q 🚱 🌣 🕢 admin V 🖏 SECURE
Remote Access VPN Policy Wizard	
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:*	Before You Start Before you start, ensure the following configuration elements to be in place to complete Remote Access VPN Policy.
ftd-vpn-engineer       Description:       VPN Protocols:	Authentication Server Configure LOCAL or Realm or RADIUS Server Group or SSO to authenticate VPN clients. Secure Client Package
SSL IPsec-IKEv2 Targeted Devices:	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
Available Devices Selected Devices Q. Search 1.1LL1.0.49	devices so that they can be used as a security zone or interface group to enable VPN access.
	Cancel Back Next

Asignación de políticas

#### Paso 7. Configurar detalles para el perfil de conexión del ingeniero

Introduzca la información necesaria y haga clic enSiguiente botón.

- · Método de autenticación: sólo certificado de cliente
- · Nombre de usuario del certificado: campo específico de asignación
- · Campo principal: CN (nombre común)
- Campo secundario: OU (unidad organizativa)
- Conjuntos de direcciones IPv4: ftd-vpn-engineering-pool
- Política de grupo: ftd-vpn-engineering-grp

Firewall Management Center Devices / VPN / Setup Wizard	Analysis Policies Devices Objects Integration	Deploy	۹	¢ 😵	admin ~	esco SECURE
Remote Access VPN Policy Wizard						
Policy Assignment 2 Connection Profile	3 Secure Client     4 Access & Certificate     5 Summary					
	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.					
	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: Client Certificate Only					
	Username From Certificate: Map specific field Use entire DN (Distinguished Name) as username					
	Primary Field: CN (Common Name)					
	Secondary Field: OU (Organisational Unit)					
	Authorization Server: (Realm or RADIUS) +					
	Accounting Server: (PADIUS) +					
	Client Address Assignment:					
	Client IP address can be assigned from AAA server, DHCP server and IP address pools. When multiple options are selected. IP address assignment is tried in the order of AAA server. DHCP server and IP address pool					
	Use AAA Server (Realm or RADIUS only)					
	Use DHCP Servers					
	Use IP Address Pools					
	IPv4 Address Pools: ftd-vpn-engineer-pool					
	IPv6 Address Pools:					
	Group Policy:					
	A group policy is a collection of user-oriented session attributes which are assigned to client when a VPN connection is established. Select or create a Group Policy object.					
	Group Policy:* ftd-vpn-engineer-grp +					
	Edit Group Policy					

Detalles del perfil de conexión

## Paso 8. Configurar imagen de cliente seguro para perfil de conexión de ingeniero

Seleccione archivo de imagen de cliente seguro y haga clic en el botón Siguiente.

Firewall Management Center Ov Devices / VPN / Setup Wizard	view Analysis Policies Devices Objects Integration	Deploy Q 🚱 🌣 🕢 admin V 🔤
Remote Access VPN Policy Wizar		
1 Policy Assignment 2 Connection Profile	3 Secure Client 4 Access & Certificate 5 Summary	
	Remote User Secure Client Internet Outside User Inside Internet	Corporate Resources
	AAA	
	Secure Client Image	
	The VPN gateway can automatically download the latest Secure Client package to the client device when th connection is initiated. Minimize connection setup time by choosing the appropriate OS for the selected package.	e VPN
	Download Secure Client packages from Cisco Software Download Center.	
	Show Re-order butto	ns +
	Secure Client File Object Name Secure Client Package Name Operating System	
	cisco-secure-client-win-5.1.3.6 cisco-secure-client-win-5.1.3.62-webdeplo Windows 🔻	
¢		
		Cancel Back Next

Paso 9. Configurar acceso y certificado para el perfil de conexión del ingeniero

Seleccione el valor para los elementos Grupo de interfaz/Zona de seguridad y Inscripción de certificados, haga clic en el botón Siguiente.

- · Grupo de interfaz/Zona de seguridad: outsideZone
- Inscripción de certificados: ftd-vpn-cert

Prirewall Management Center Overview Analysis Policies Devices Objects Integration	Deploy Q 🧬 🌣 🔕 admin ~ 🖞
Remote Access VPN Policy Wizard         1 Policy Assignment       2 Connection Profile         3 Secure Client       3 Access & Certificate	
AAA 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:* outsideZone	
Certificate Enrollment:*  Certificate Enrollment:*  Certificate 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.	Cancel Back Next

Detalles de acceso y certificado

#### Paso 10. Confirmar resumen para perfil de conexión de ingeniero

Confirme la información especificada para la directiva VPN de acceso remoto y haga clic en el botón Finish.



Navegue hasta Devices > VPN > Remote Access > Connection Profile, haga clic en el botón +.

Firewall Management Center Devices / VPN / Edit Connection Profile	Analysis Policies Devices Objects Integration	Deploy Q 💕 🌣 🔞 admin 🗸	" discle SECURE
ftd-vpn-engineer			Save Cancel
Enter Description			
		Local Realm: None Dynamic A	icy Assignments (1) Access Policy: None
Connection Profile Access Interfaces Advanced			
			+
Name	AAA	Group Policy	
DefaultWEBVPNGroup	Authentication: None Authorization: None Accounting: None	DftGrpPolicy	/1
ftd-vpn-engineer	Authorization: Client Certificate Only Authorization: None Accounting: None	🕞 ftd-vpn-engineer-grp	/1

Agregar perfil de conexión para Manager VPN Client

Introduzca la información necesaria para el perfil de conexión y haga clic en el botón Save.

- Nombre: ftd-vpn-manager
- Política de grupo: ftd-vpn-manager-grp
- Conjuntos de direcciones IPv4: ftd-vpn-manager-pool

## Add Connection Profile

Connection Profile:*	ftd-vpn-manager	
Group Policy:*	ftd-vpn-manager-grp	• +
Client Address Assignment	AAA Aliases	

IP Address for the remote clients can be assigned from local IP Address pools/DHCP Servers/AAA. Servers. Configure the 'Client Address Assignment Policy' in the Advanced tab to define the assignment criteria.

Address Pools:

Name	IP Address Range	
ftd-vpn-manager-pool	172.16.1.120-172.16.1.130	ftd-vpn-manager-pool

# DHCP Servers: + Name DHCP Server IP Address Cancel Save

Detalles del perfil de conexión para Manager VPN Client

#### Confirme los nuevos perfiles de conexión agregados.

Firewall Management Center Devices / VPN / Edit Connection Profile	Analysis Policies De	evices Objects	Integration		Deploy Q 🚱	🗘 🚱 admin ~	enco SECURE
ftd-vpn-engineer					You have	unsaved changes Sav	e Cancel
Enter Description Policy Assignments (1 Local Realm: None Dynamic Access Policy: Non Connection Profile Access Interfaces Advanced							ssignments (1) Is Policy: None
							+
Name	ААА			Group Policy			
DefaultWEBVPNGroup	Authentication: None Authorization: None Accounting: None			DfltGrpPolicy	-		/1
ftd-vpn-engineer	Authentication: Client Certifica Authorization: None Accounting: None	te Only		td-vpn-engineer-grp			/1
ftd-vpn-manager	Authentication: Client Certifica Authorization: None Accounting: None	te Only		E ftd-vpn-manager-grp			/1

Confirmar perfiles de conexión agregados

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#### Paso 12. Agregar mapa de certificado

Navegue hasta Objetos > Administración de objetos > VPN > Mapa de certificado, haga clic en el botón Agregar mapa de certificado.

Firewall Management	Center Overview	Analysis Po	olicies Devices	Objects	Integration	Deploy	Q	<b>6</b> ° ¢	F @	admin 🗸	cisco SECURE
> PKI	Certificate Map					Add Certific	ate Ma	ip (	2		
Port Prefix List Route Map	Certificate Map Object is use connection is associated with	d to provide an ass a the specified con	ociation between a re nection profile.	ceived certificat	e and a Remote Access VPN connection profile.If a received or	ertificate match	es the i	rules co	ntained in	the certific	ate map, the
Security Intelligence     Sinkhole	Name							Valu	*		
SLA Monitor					No records to display						
Time Range Time Zone											
Tunnel Zone URL											
Variable Set											
✓ VPN											
Certificate Map Custom Attribute											

Agregar mapa de certificado

Introduzca la información necesaria para el mapa de certificado del cliente VPN del ingeniero y haga clic en el botón Save.

- Nombre del mapa: cert-map-engineering
- Regla de asignación: CN (nombre común) es igual a vpnEngineerClientCN

Map Name*:
cert-map-engineer
cert-map-engineer

#### Mapping Rule

Add Rule

Configure the certificate matching rule

#	Field	Component	Operator	Value	
1	Subject	CN (Common Name)	Equals	vpnEngineerClie	/ 1



Mapa de certificado para cliente de ingeniero

Introduzca la información necesaria para el mapa de certificados del cliente VPN del administrador y haga clic en el botón Save.

- Nombre del mapa: cert-map-manager
- Regla de asignación: CN (nombre común) es igual a vpnManagerClientCN

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Map Name*:	
cert-map-manager	
Magazing Bula	
Configure the certificate r	matching rule

#	Field	Component	Operator	Value	
1	Subject	CN (Common Name)	Equals	vpnManagerClie	/ 1

	Cancel	Save
lana de certificado para Manager Client		

Mapa de certificado para Manager Client

Confirme los nuevos mapas de certificados agregados.

Firewall Managemen Objects / Object Managemen	Center Overview Analysis Policies Devices Objects Integration Deploy Q	admin 🗸 👘 SEC	URE
> ркі			
Policy List	Certificate Map		
> Prefix List	Certificate Map Object is used to provide an association between a received certificate and a Remote Access VPN connection profile. If a received certificate matches the rule	es contained in the certificate map, the	,
Route Map	connection is associated with the specified connection prome.		
> Security Intelligence	Name	Value	
Sinkhole	cert-map-engineer	1 Criteria	
SLA Monitor	cert-man-mananer	1 Criteria	
Time Range	- en e nuper son a gran a g		

Nuevos mapas de certificados

Paso 13. Enlazar mapa de certificado a perfil de conexión

Vaya a Devices > VPN > Remote Access, edit ftd-vpn-engineering. Luego, navegue hasta Advanced > Certificate Maps, haga clic en el botón Add Mapping.

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Firewall Managemen	nt Center ove	rview Analysis	Policies	Devices	Objects	Integration		Deploy	९ 🌀	¢ (	admin v	cisco SE	CURE
ftd-vpn-engineer									You ha	ive unsa	wed changes	ave C	ancel
Enter Description													
											Policy	Assignmen	<u>its (1)</u>
		_						Local Realm	: None		Dynamic Acc	ess Policy:	None
Connection Profile Access Inte	arfaces Advanced												
Secure Client Images	Conoral Satting	a for Connection [	rofile Mannin										-
Secure Client Customization	The device processes	the policies in the order	listed below until i	ig it finds a matc	:h								- 12
GIII Taxt and Massages	Use group URL	if group URL and Certif	cate Map match	different Cor	nnection Profi	les							- 11
	Use the configu	red rules to match a ce	rtificate to a Conr	nection Profil	le								- 11
Seriete	Certificate to C	onnection Profile	Mapping										- 11
Scripts	Client request is check	ked against each Certific	ate Map, associate	ed Connection	n Profile will be	used when rules are	matched. If none	of the Certifical	te Map is m	atched,	default connection	profile will	- 11
Binaries	Please provide at	least one Certificate Mar	ning										a II
Custom Installer Transforms	Theore provide at	reast one certificate may	shurdt.								Add	Mapping	1
Localized Installer Transform	Certificate Map				с	onnection Profile							
Address Assignment Policy													
Certificate Maps					N	o Records Found							
Group Policies													- 11

Enlazar mapa de certificado

Enlace de mapa de certificado al perfil de conexión para el cliente VPN del ingeniero.

- · Nombre del mapa de certificado: cert-map-engineering
- Connection Profile: ftd-vpn-engineer

# Add Connection Profile to Certificate Map

Choose a Certificate Map and associate Connection Profiles to selected Certficate Map.



Enlace del mapa de certificado para el cliente VPN del ingeniero

Vinculación del mapa de certificado al perfil de conexión para el cliente VPN del administrador.

- Nombre de mapa de certificado: cert-map-manager
- · Perfil de conexión: ftd-vpn-manager

Choose a Certificate Map and associate Connection Profiles to selected Certficate Map.



Enlace de Mapa de Certificado para Manager VPN Client

#### Confirme la configuración del enlace de certificados.

Firewall Managemen Devices / VPN / Edit Advance	nt Center Overview Analysis Policies	Devices Objects Integration	Deploy Q 🚱 🌣 🙆 admin 🗸 👘 SECURE
ftd-vpn-engineer			You have unsaved changes Save Cancel Policy Assignments (1)
Connection Profile Access Inte	arfaces Advanced		Local Realm: None Dynamic Access Policy: None
Secure Client Images Customization GUI Text and Messages Icons and Images Scripts Binaries Custom Installer Transforms	General Settings for Connection Profile Mapp The device processes the policies in the order listed below un Use group URL if group URL and Certificate Map mate Use the configured rules to match a certificate to a Certificate to Connection Profile Mapping Client request is checked against each Certificate Map, assoc be chosen.	Ding til it finds a match ch different Connection Profiles onnection Profile iated Connection Profile will be used when rules are matched. If n	none of the Certificate Map is matched, default connection profile will Add Mapping
Localized Installer Transform Address Assignment Policy	Certificate Map	Connection Profile	
Certificate Maps	cert-map-engineer	ftd-vpn-engineer	/1
Group Policies	cert-map-manager	ftd-vpn-manager	/1

Confirmar vinculación de certificados

#### Confirmar en CLI de FTD

Confirme la configuración de la conexión VPN en la CLI de FTD después de la implementación desde el FMC.

interface GigabitEthernet0/0 nameif outside security-level 0 ip address 192.168.1.200 255.255.255.0 // Defines a pool of addresses ip local pool ftd-vpn-engineer-pool 172.16.1.100-172.16.1.110 mask 255.255.255.0 ip local pool ftd-vpn-manager-pool 172.16.1.120-172.16.1.130 mask 255.255.255.0 // Defines Trustpoint for Server Certificate crypto ca trustpoint ftd-vpn-cert keypair ftd-vpn-cert crl configure // Server Certificate Chain crypto ca certificate chain ftd-vpn-cert certificate 22413df584b6726c 3082037c 30820264 a0030201 02020822 413df584 b6726c30 0d06092a 864886f7 . . . . . . quit certificate ca 5242a02e0db6f7fd 3082036c 30820254 a0030201 02020852 42a02e0d b6f7fd30 0d06092a 864886f7 . . . . . . quit // Defines Certificate Map for Engineer VPN Clients crypto ca certificate map cert-map-engineer 10 subject-name attr cn eq vpnEngineerClientCN // Defines Certificate Map for Manager VPN Clients crypto ca certificate map cert-map-manager 10 subject-name attr cn eq vpnManagerClientCN // Configures the FTD to allow Cisco Secure Client connections and the valid Cisco Secure Client images webvpn enable outside http-headers hsts-server enable max-age 31536000 include-sub-domains no preload hsts-client enable x-content-type-options x-xss-protection content-security-policy anyconnect image disk0:/csm/cisco-secure-client-win-5.1.3.62-webdeploy-k9.pkg 1 regex "Windows" anyconnect enable tunnel-group-list enable cache disable certificate-group-map cert-map-engineer 10 ftd-vpn-engineer certificate-group-map cert-map-manager 10 ftd-vpn-manager error-recovery disable // Configures the group-policy to allow SSL connections from manager VPN clients group-policy ftd-vpn-manager-grp internal group-policy ftd-vpn-manager-grp attributes banner none wins-server none

dns-server none dhcp-network-scope none vpn-simultaneous-logins 3 vpn-idle-timeout 30 vpn-idle-timeout alert-interval 1 vpn-session-timeout none vpn-session-timeout alert-interval 1 vpn-filter none vpn-tunnel-protocol ikev2 ssl-client split-tunnel-policy tunnelall ipv6-split-tunnel-policy tunnelall split-tunnel-network-list none default-domain none split-dns none split-tunnel-all-dns disable client-bypass-protocol disable vlan none address-pools none webvpn anyconnect ssl dtls enable anyconnect mtu 1406 anyconnect firewall-rule client-interface public none anyconnect firewall-rule client-interface private none anyconnect ssl keepalive 20 anyconnect ssl rekey time none anyconnect ssl rekey method none anyconnect dpd-interval client 30 anyconnect dpd-interval gateway 30 anyconnect ssl compression none anyconnect dtls compression none anyconnect modules value none anyconnect ask none default anyconnect anyconnect ssl df-bit-ignore disable // Configures the group-policy to allow SSL connections from engineer VPN clients group-policy ftd-vpn-engineer-grp internal group-policy ftd-vpn-engineer-grp attributes banner none wins-server none dns-server none dhcp-network-scope none vpn-simultaneous-logins 3 vpn-idle-timeout 30 vpn-idle-timeout alert-interval 1 vpn-session-timeout none vpn-session-timeout alert-interval 1 vpn-filter none vpn-tunnel-protocol ssl-client split-tunnel-policy tunnelall ipv6-split-tunnel-policy tunnelall split-tunnel-network-list none default-domain none split-dns none split-tunnel-all-dns disable client-bypass-protocol disable vlan none address-pools none webvpn anyconnect ssl dtls enable anyconnect mtu 1406 anyconnect firewall-rule client-interface public none anyconnect firewall-rule client-interface private none

```
anyconnect ssl keepalive 20
anyconnect ssl rekey time none
anyconnect ssl rekey method none
anyconnect dpd-interval client 30
anyconnect dpd-interval gateway 30
anyconnect ssl compression none
anyconnect dtls compression none
anyconnect modules value none
anyconnect ask none default anyconnect
anyconnect ssl df-bit-ignore disable
// Configures the tunnel-group to use the certificate authentication for engineer VPN clients
tunnel-group ftd-vpn-engineer type remote-access
tunnel-group ftd-vpn-engineer general-attributes
address-pool ftd-vpn-engineer-pool
default-group-policy ftd-vpn-engineer-grp
tunnel-group ftd-vpn-engineer webvpn-attributes
authentication certificate
group-alias ftd-vpn-engineer enable
// Configures the tunnel-group to use the certificate authentication for manager VPN clients
tunnel-group ftd-vpn-manager type remote-access
tunnel-group ftd-vpn-manager general-attributes
address-pool ftd-vpn-manager-pool
default-group-policy ftd-vpn-manager-grp
tunnel-group ftd-vpn-manager webvpn-attributes
```

#### Confirmar en cliente VPN

authentication certificate

Paso 1. Confirmar certificado de cliente

En el cliente de ingeniero VPN, navegue hasta Certificados - Usuario actual > Personal > Certificados, verifique el certificado de cliente utilizado para la autenticación.

	Conse	ole1 - [Co	nsole R	oot\Certific	cates - Curre	nt User\Personal\Certificates]				-	σ	×	ζ
	Eile	Action	⊻iew	Favorites	Window	Help						- 8	×
4	• •	2	Û	Q 🔒	2 🖬								
	Cons	ole Root			_	Issued To ^	Issued Du	Expiration Date	Intended Purposes	Friendly Name	Action	15	_
ŀ	r 🖓 C	Person	s - Curri	ent User		SvpnEngineerClientCN	ftd-ra-ca-common-name	6/18/2025	<b>Client Authentication</b>	vpnEngineerClix	Certifi	cates	•
	•	Cer	tificates	1				•			N	fore	۲
•	× _	Inusted	ROOT	entification	Authorities								

Confirmar certificado para cliente de VPN de ingeniero

Haga doble clic en el certificado de cliente, navegue hastaDetalles, verifique los detalles deAsunto.

Asunto: CN = vpnEngineerClientCN

Certificate	×
General Details Certification	Path
Show: <al></al>	$\sim$
Field	Value ^
Subject	vpnEngineerClientCN, vpnEngi
Public key parameters	RSA (2048 Bits) 05 00
Enhanced Key Usage	Client Authentication (1.3.6.1
Thumborint algorithm	xca certificate
CN = vpnEngineerClientCN	
O = Cisco L = Tokyo	
S = Tokyo C = JP	
	Edit Properties Copy to File
	OK

Detalles del certificado de cliente de ingeniero

En manager VPN client, navegue hasta Certificados - Usuario actual > Personal > Certificados, verifique el certificado de cliente utilizado para la autenticación.

![](_page_25_Picture_0.jpeg)

Confirmar certificado para Manager VPN Client

Haga doble clic en el certificado de cliente, navegue hastaDetalles, verifique los detalles deAsunto.

• Asunto: CN = vpnManagerClientCN

# 💼 Certificate

General	Details	Certification Pat	h	
Show:	<al></al>		$\sim$	
Field			Value	^
(m)		_	Thursday, June 19, 2025 9:41	
Sul	bject		vpnManagerClientCN, vpnMan	
ELIPO	JUC KEY		RSA (2048 Bits)	
Put 1	blic key p	arameters	05 00	
Ke	y Usage		Digital Signature, Key Encipher	
En/	hanced Ki	ey Usage	Client Authentication (1.3.6.1	
- Die Ne	tscape Co	omment	xca certificate	
l m	mborint	aloorithm	chat	¥
CN = V C = Cis L = Tok S = Tok C = JP	pnManag ico iyo iyo iyo	erClientCN		I
		E	dit Properties Copy to File.	
			C	ж

х

Detalles del certificado de cliente del administrador

Paso 2. Confirmar CA

En el cliente VPN del ingeniero y en el cliente VPN del administrador, navegue hasta Certificados - Usuario actual > Entidades de certificación raíz de confianza > Certificados, verifique la CA utilizada para la autenticación.

• Emitido por: ftd-ra-ca-common-name

🚋 Console1 - [Console Root\Certificates - Current User\Trusted Root Certification Authorities\Certificates]						-	σ	>	κ.
à	Eile Action View Favorites Window	Help						- 6	×
٠	🔶 🖄 💼 🔏 🗞 🔛 🔤 🛛	1							
	Console Root	Issued To	Issued By	Expiration Date	Intended Purposes	Friendly Nan ^	Action	\$	
~ (	Perropal	2 127.0.0.1	127.0.0.1	5/17/2027	Server Authenticati	duo-endpoir	Certific	ates	•
	Personal	AAA Certificate Services	AAA Certificate Services	12/31/2028	Client Authenticati	Sectigo (AA/	M	ore	•
- 1	Trusted Root Certification Authorities	Baltimore CyberTrust Root	Baltimore CyberTrust Root	5/12/2025	Client Authenticati	DigiCert Balt			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Certificates	Class 3 Public Primary Cer	Class 3 Public Primary Cer	8/1/2028	Client Authenticati	VeriSign Clas	ftd-ra-	ca	•
		COMODO RSA Certificati	COMODO RSA Certificati	1/18/2038	Client Authenticati	Sectigo (forr	M	ore	•
	> Intermediate Certification Authorities	Copyright (c) 1997 Micros	Copyright (c) 1997 Micros	12/30/1999	Time Stamping	Microsoft Til			
	Active Directory User Object	DESKTOP-VCKHRG1	DESKTOP-VCKHRG1	10/30/2022	Server Authenticati	www.infraey			
	> 🔛 Trusted Publishers	DigiCert Assured ID Root	DigiCert Assured ID Root	11/9/2031	<all></all>	<none></none>			
	> Untrusted Certificates	DigiCert Assured ID Root	DigiCert Assured ID Root	11/9/2031	Client Authenticati	DigiCert			
	> 🧮 Third-Party Root Certification Authoriti	DigiCert Global Root CA	DigiCert Global Root CA	11/9/2031	Client Authenticati	DigiCert			
	> 🔛 Trusted People	DigiCert Global Root G2	DigiCert Global Root G2	1/15/2038	Client Authenticati	DigiCert Glol			
	> Client Authentication Issuers	DigiCert High Assurance	DigiCert High Assurance	11/9/2031	<all></all>	<none></none>			
	> Smart Card Trusted Roots	DigiCert High Assurance	DigiCert High Assurance	11/9/2031	Client Authenticati	DigiCert			
> [	Certificates (Local Computer)	DigiCert Trusted Root G4	DigiCert Trusted Root G4	1/15/2038	Client Authenticati	DigiCert Tru:			
		TIDOT D	DOT DUILO A VO	9/30/2021	Client Authenticati	DST Root CA			
		🔤 ftd-ra-ca-common-name	ftd-ra-ca-common-name	/16/2029	<all></all>	<none></none>			
		Laronovarsign	olooabign	3/18/2029	Client Authenticati	GlobalSign R			

Confirmar CA

# Verificación

#### Paso 1. Iniciar conexión VPN

En el cliente de ingeniería VPN, inicie la conexión de Cisco Secure Client. No es necesario introducir el nombre de usuario y la contraseña, ya que la VPN se ha conectado correctamente.

S Cisco Secure Client			-		×
	AnyConnect VPN:			- <b>*</b>	
	Connected to 192.168.1.200.	_	_		_
00:01:00	192.168.1.200	~		Disconnect	v4
\$ ①			4		-1)1.2)1. CISCO

Inicio de la conexión VPN desde el cliente de ingeniería

En manager VPN client, inicie la conexión de Cisco Secure Client. No es necesario introducir el

nombre de usuario y la contraseña, ya que la VPN se ha conectado correctamente.

S Cisco Secure Client					$\times$
	AnyConnect VPN: Connected to 192.168.1.200. 192.168.1.200	~	[	Sisconnect	
00:00:38				B	Pv4
\$ ①			A.		ulualu cisco

Inicio de la conexión VPN desde el cliente Manager

#### Paso 2. Confirmar sesiones activas en FMC

#### Vaya a Analysis > Users > Active Sessions, verifique la sesión activa para la autenticación VPN.

	Firewall Manager Analysis / Users / Active	nent Center Overview Analy Sessions	rsis Policies Dev	ices Objects Ir	ntegration	Deploy	५ 🔮 🌣 🙆	admin v da	SECURE
Switch to legacy UI									
▼ Select X Refresh Log Out									
⊘ Showing all 2 sessions 🛓									
0	Login Time	Realm\Username	Last Seen	Authentication Type	Current IP	Realm	<u>Username</u> ↓	First Name	Last Nar
	2024-06-19 11:01:19	Discovered Identities\vpnManagerClientCN	2024-06-19 11:01:19	VPN Authentication	172.16.1.120	Discovered Identities	vpnManagerClientCN		
	2024-06-19 <b>11:00:35</b>	Discovered Identities\vpnEngineerClientCN	2024-06-19 <b>11:00:35</b>	VPN Authentication	172.16.1.101	Discovered Identities	vpnEngineerClientCN		

Confirmar sesión activa

#### Paso 3. Confirmar sesiones VPN en CLI de FTD

Ejecuteshow vpn-sessiondb detail anyconnect el comando en la CLI de FTD (Line) para confirmar las sesiones VPN del ingeniero y el administrador.

ftd702# show vpn-sessiondb detail anyconnect

Session Type: AnyConnect Detailed

Username : vpnEngineerClientCN Index : 13 Assigned IP : 172.16.1.101 Public IP : 192.168.1.11 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 : 14782 Bytes Rx : 12714 Pkts Tx : 2 Pkts Rx : 32 Pkts Tx Drop : 0 Pkts Rx Drop : 0 Group Policy : ftd-vpn-engineer-grp Tunnel Group : ftd-vpn-engineer Login Time : 02:00:35 UTC Wed Jun 19 2024 Duration : 0h:00m:55s Inactivity : 0h:00m:00s VLAN Mapping : N/A VLAN : none Audt Sess ID : cb0071820000d00066723bc3 Security Grp : none Tunnel Zone : 0

AnyConnect-Parent Tunnels: 1 SSL-Tunnel Tunnels: 1 DTLS-Tunnel Tunnels: 1

AnyConnect-Parent: Tunnel ID : 13.1 Public IP : 192.168.1.11 Encryption : none Hashing : none TCP Src Port : 50225 TCP Dst Port : 443 Auth Mode : Certificate Idle Time Out: 30 Minutes Idle TO Left : 29 Minutes Client OS : win Client OS Ver: 10.0.15063 Client Type : AnyConnect Client Ver : Cisco AnyConnect VPN Agent for Windows 5.1.3.62 Bytes Tx : 7391 Bytes Rx : 0 Pkts Tx : 1 Pkts Rx : 0 Pkts Tx Drop : 0 Pkts Rx Drop : 0

SSL-Tunnel: Tunnel ID : 13.2 Assigned IP : 172.16.1.101 Public IP : 192.168.1.11 Encryption : AES-GCM-128 Hashing : SHA256 Ciphersuite : TLS\_AES\_128\_GCM\_SHA256 Encapsulation: TLSv1.3 TCP Src Port : 50232 TCP Dst Port : 443 Auth Mode : Certificate Idle Time Out: 30 Minutes Idle TO Left : 29 Minutes Client OS : Windows Client Type : SSL VPN Client Client Ver : Cisco AnyConnect VPN Agent for Windows 5.1.3.62 Bytes Tx : 7391 Bytes Rx : 1775 Pkts Tx : 1 Pkts Rx : 2 Pkts Tx Drop : 0 Pkts Rx Drop : 0

DTLS-Tunnel: Tunnel ID : 13.3 Assigned IP : 172.16.1.101 Public IP : 192.168.1.11 Encryption : AES-GCM-256 Hashing : SHA384 Ciphersuite : ECDHE-ECDSA-AES256-GCM-SHA384 Encapsulation: DTLSv1.2 UDP Src Port : 50825 UDP Dst Port : 443 Auth Mode : Certificate Idle Time Out: 30 Minutes Idle TO Left : 29 Minutes Client OS : Windows Client Type : DTLS VPN Client Client Ver : Cisco AnyConnect VPN Agent for Windows 5.1.3.62 Bytes Tx : 0 Bytes Rx : 10939 Pkts Tx : 0 Pkts Rx : 30 Pkts Tx Drop : 0 Pkts Rx Drop : 0 Username : vpnManagerClientCN Index : 14 Assigned IP: 172.16.1.120 Public IP: 192.168.1.21 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 : 14782 Bytes Rx : 13521 Pkts Tx: 2 Pkts Rx: 57 Pkts Tx Drop: 0 Pkts Rx Drop: 0 Group Policy : ftd-vpn-manager-grp Tunnel Group : ftd-vpn-manager Login Time : 02:01:19 UTC Wed Jun 19 2024 Duration: 0h:00m:11s Inactivity: 0h:00m:00s VLAN Mapping : N/A VLAN : none Audt Sess ID : cb0071820000e00066723bef Security Grp: none Tunnel Zone: 0 AnyConnect-Parent Tunnels: 1 SSL-Tunnel Tunnels: 1 DTLS-Tunnel Tunnels: 1

AnyConnect-Parent: Tunnel ID : 14.1 Public IP : 192.168.1.21 Encryption : none Hashing : none TCP Src Port : 49809 TCP Dst Port : 443 Auth Mode : Certificate Idle Time Out: 30 Minutes Idle TO Left : 29 Minutes Client OS : win Client OS ver: 10.0.15063 Client Type : AnyConnect Client Ver : Cisco AnyConnect VPN Agent for Windows 5.1.3.62 Bytes Tx : 7391 Bytes Rx : 0 Pkts Tx : 1 Pkts Rx : 0 Pkts Tx Drop : 0 Pkts Rx Drop : 0

SSL-Tunnel: Tunnel ID : 14.2 Assigned IP : 172.16.1.120 Public IP : 192.168.1.21 Encryption : AES-GCM-128 Hashing : SHA256 Ciphersuite : TLS\_AES\_128\_GCM\_SHA256 Encapsulation: TLSv1.3 TCP Src Port : 49816 TCP Dst Port : 443 Auth Mode : Certificate Idle Time Out: 30 Minutes Idle TO Left : 29 Minutes Client OS : Windows Client Type : SSL VPN Client Client Ver : Cisco AnyConnect VPN Agent for Windows 5.1.3.62 Bytes Tx : 7391 Bytes Rx : 3848 Pkts Tx : 1 Pkts Rx : 25 Pkts Tx Drop : 0 Pkts Rx Drop : 0

DTLS-Tunnel: Tunnel ID : 14.3 Assigned IP : 172.16.1.120 Public IP : 192.168.1.21 Encryption : AES-GCM-256 Hashing : SHA384 Ciphersuite : ECDHE-ECDSA-AES256-GCM-SHA384 Encapsulation: DTLSv1.2 UDP Src Port : 65501 UDP Dst Port : 443 Auth Mode : Certificate Idle Time Out: 30 Minutes Idle TO Left : 30 Minutes Client OS : Windows Client Type : DTLS VPN Client Client Ver : Cisco AnyConnect VPN Agent for Windows 5.1.3.62 Bytes Tx : 0 Bytes Rx : 9673 Pkts Tx : 0 Pkts Rx : 32 Pkts Tx Drop : 0 Pkts Rx Drop : 0

#### Troubleshoot

Puede esperar encontrar información sobre la autenticación VPN en el registro del sistema de depuración del motor de línea y en el archivo DART en la PC con Windows.

Este es un ejemplo de los registros de depuración en el motor de línea durante la conexión VPN desde el cliente de ingeniería.

#### <#root>

Jun 19 2024 02:00:35: %FTD-7-717029: Identified client certificate within certificate chain. serial number: 7AF1C78ADCC8F941, subject name: CN=vpr Jun 19 2024 02:00:35: %FTD-6-717022:

#### Certificate was successfully validated

. serial number: 7AF1C78ADCC8F941, subject name:

#### CN=vpnEngineerClientCN

,OU=vpnEngineerClientOU,O=Cisco,L=Tokyo,ST=Tokyo,C=JP. Jun 19 2024 02:00:35: %FTD-7-717038: Tunnel group match found.

#### Tunnel Group: ftd-vpn-engineer

, Peer certificate: serial number: 7AF1C78ADCC8F941, subject name: CN=vpnEngineerClientCN,OU=vpnEnginee Jun 19 2024 02:00:35: %FTD-6-113009: AAA retrieved default group policy (ftd-vpn-engineer-grp) for user Jun 19 2024 02:00:46: %FTD-6-725002: Device completed SSL handshake with client outside:192.168.1.11/50

Este es un ejemplo de los registros de depuración en el motor de línea durante la conexión VPN desde el cliente administrador.

#### <#root>

Jun 19 2024 02:01:19: %FTD-7-717029: Identified client certificate within certificate chain. serial number: 1AD1B5EAE28C6D3C, subject name: CN=vp Jun 19 2024 02:01:19: %FTD-6-717022:

#### Certificate was successfully validated

. serial number: 1AD1B5EAE28C6D3C, subject name:

#### CN=vpnManagerClientCN

,OU=vpnManagerClientOU,O=Cisco,L=Tokyo,ST=Tokyo,C=JP. Jun 19 2024 02:01:19: %FTD-7-717038: Tunnel group match found.

#### Tunnel Group: ftd-vpn-manager

, Peer certificate: serial number: 1AD1B5EAE28C6D3C, subject name: CN=vpnManagerClientCN,OU=vpnManagerC Jun 19 2024 02:01:19: %FTD-6-113009: AAA retrieved default group policy (ftd-vpn-manager-grp) for user Jun 19 2024 02:01:25: %FTD-6-725002: Device completed SSL handshake with client outside:192.168.1.21/65 Información Relacionada

Configuración de la Autenticación Basada en Certificados de Anyconnect para el Acceso Móvil

#### Acerca de esta traducción

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