Configurazione del mapping dei certificati per l'autenticazione client sicura su FTD tramite FMC

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Introduzione

Questo documento descrive come configurare Cisco Secure Client con SSL su FTD tramite FMC utilizzando la mappatura dei certificati per l'autenticazione.

Prerequisiti

Requisiti

Cisco raccomanda la conoscenza dei seguenti argomenti:

- Cisco Firepower Management Center (FMC)
- Virtual Firewall Threat Defense (FTD)
- Flusso di autenticazione VPN

Componenti usati

- Cisco Firepower Management Center per VMWare 7.4.1
- Cisco Firewall Threat Defense Virtual 7.4.1
- Cisco Secure Client 5.1.3.62

Le informazioni discusse in questo documento fanno riferimento a dispositivi usati in uno specifico ambiente di emulazione. Su tutti i dispositivi menzionati nel documento la configurazione è stata ripristinata ai valori predefiniti. Se la rete è operativa, valutare attentamente eventuali conseguenze derivanti dall'uso dei comandi.

Premesse

Il mapping dei certificati è un metodo utilizzato nelle connessioni VPN in cui un certificato client viene mappato a un account utente locale oppure gli attributi all'interno del certificato vengono utilizzati a scopo di autorizzazione. Si tratta di un processo in cui un certificato digitale viene utilizzato per identificare un utente o un dispositivo. Utilizzando il mapping dei certificati, utilizza il protocollo SSL per autenticare gli utenti senza che questi debbano immettere credenziali.

In questo documento viene descritto come autenticare Cisco Secure Client utilizzando il nome comune tratto da un certificato SSL.

Questi certificati contengono un nome comune, utilizzato ai fini dell'autorizzazione.

- CA : ftd-ra-ca-nome-comune
- Certificato client VPN del tecnico: vpnEngineerClientCN
- Certificato client VPN Manager: vpnManagerClientCN
- Certificato server: 192.168.1.200

Esempio di rete

Nell'immagine è illustrata la topologia utilizzata per l'esempio del documento.



Esempio di rete

Configurazioni

Configurazione in FMC

Passaggio 1. Configura interfaccia FTD

Selezionare Dispositivi > Gestione dispositivi, modificare il dispositivo FTD di destinazione, configurare l'interfaccia esterna per FTD nella scheda Interfacce.

Per Gigabit Ethernet0/0,

- Nome: esterno
- · Area di sicurezza: area esterna
- Indirizzo IP: 192.168.1.200/24

Firewall Management Cent Devices / Secure Firewall Interfaces	Overview	Analysis	Policies	Devices	Objects	Integration		D	eploy C	¢ 🔮	0	admin 🗸 💡	SECURE
1.1.2 3.0.49 Save Cancel Disco Firepower Threat Defense for VMware Device Routing Interfaces Inline Sets DHCP VTEP													
All Interfaces Virtual Tunnels Add Interfaces *								Interfaces 🔻					
Interface	Logical Name	Туре	Securit	y Zones	MAC Add	lress (Active/Standby)	IP Address		Path I	Monitoring	Virtual	Router	
Management0/0	management	Physical							Disab	ed	Global		ର -⊄
GigabitEthernet0/0	outside	Physical	outside	Zone			192.168.1.200	//24(Static)	Disab	ed	Global		/

Interfaccia FTD

Passaggio 2. Conferma licenza Cisco Secure Client

Selezionare Dispositivi > Gestione dispositivi, modificare il dispositivo FTD di destinazione, confermare la licenza Cisco Secure Client nella scheda Dispositivo.

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+	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:			

Licenza Secure Client

Passaggio 3. Aggiungi pool di indirizzi IPv4

Selezionare Oggetto > Gestione oggetti > Pool di indirizzi > Pool IPv4, quindi fare clic su Aggiungi pool IPv4.

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

Aggiungi pool di indirizzi IPv4

Immettere le informazioni necessarie per creare un pool di indirizzi IPv4 per il client VPN del tecnico.

- Nome: ftd-vpn-engineer-pool
- Intervallo di indirizzi IPv4: 172.16.1.100-172.16.1.110
- Maschera: 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		
▶ Override (0)		
	Cancel	Save

(2)

Pool di indirizzi IPv4 per client VPN del tecnico

Immettere le informazioni necessarie per creare un pool di indirizzi IPv4 per il client VPN di gestione.

- Nome: ftd-vpn-manager-pool
- Intervallo di indirizzi IPv4: 172.16.1.120-172.16.1.130
- Maschera: 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 address pool object to avoid IP address conflicts in case of object is shared across multiple devices		
 Override (0) 		
	Cancel	Save
Pool di indirizzi IPv4 per client VPN di gestione		
Confermare i nuovi pool di indirizzi IPv4.		
Firewall Management Center Overview Analysis Policies Devices Objects Integration	Deploy Q 🧬 🌣 🕲	admin ~ dinte SECURE

Objects / Object Managem	nent		,		,			••••••	~ •		GRO SECORE
> AAA Server	Î	IPv4 Pools						Add IPv4 Pools	Q, Filte	f	
> Access List											
✓ Address Pools		IPv4 pool contains list of IPv4	addresses, it is used for mar	nagement/dia	agnostic interfa	ace with clustering, or for V	/PN remote access profiles.				
IPv4 Pools											
IPv6 Pools		Name						Value		Override	
Application Filters		Relation and insert and						172 16 1 100-172 16 1 110			4.7
AS Path		nu-vpri-engineer-poor						172.10.1.100-172.10.1.110		•	/ •
BFD Template		ftd-vpn-manager-pool						172.16.1.120-172.16.1.130		0	11
Cipher Suite List											

Nuovi pool di indirizzi IPv4

Passaggio 4. Aggiungi Criteri di gruppo

Selezionare Oggetto > Gestione oggetti > VPN > Criteri di gruppo, quindi fare clic su Aggiungi criteri di gruppo.

0



Aggiungi Criteri di gruppo

Immettere le informazioni necessarie per creare un criterio di gruppo per il client VPN del tecnico.

- Nome: ftd-vpn-engineer-grp
- Protocolli VPN: SSL

Add Group Policy	(9
Name:* ftd-vpn-engineer-gr;		
Description:		
General Secure	Client Advanced	
VPN Protocols IP Address Pools Banner	VPN Tunnel Protocol: Specify the VPN tunnel types that user can use. At least one tunneling mod must be configured for users to connect over a VPN tunnel.	5e
DNS/WINS	SSL IPsec-IKEv2	
Split Tunneling		

Criteri di gruppo per il client VPN Engineer

Immettere le informazioni necessarie per creare un criterio di gruppo per il client VPN di gestione.

- Nome: ftd-vpn-manager-grp
- Protocolli VPN: SSL

Add Group Policy

Name:*	
nd-vpn-manager-g	q
Description:	
General Secure	Client Advanced
VPN Protocols	VPN Tuppel 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
DNS/WINS	IPsec-IKEv2
Split Tunneling	
riteri di gruppo per il client VP	N di gestione

Confermare i nuovi criteri di gruppo.

Firewall Management Objects / Object Management	nt Center	Overview	Analysis	Policies	Devices	Objects	Integration	Deploy	Q	¢	¢ 0	admin ~	cisco SECURE
> РКІ													
Policy List	Group Po	olicy						Add G	iroup Pe	licy	Q Filt	br	
Port													
> Prefix List	A Group Policy current connect	is a set of attr tion profile.	ribute and value	e pairs, stored	in a group p	olicy object, th	at define the remote access VPN experience. The RADIUS authorize	ation serve	er assig	ns the q	roup pe	olicy or it is of	btained from the
Route Map		and provider											
> Security Intelligence	Name												
Sinkhole	DfltGroPolicy												12
SLA Monitor	entarpr energ												
Time Range	ftd-vpn-engine	er-grp											/1
Time Zone	ftd-vpn-manag	er-grp											11
Tunnel Zone													

Nuovi Criteri di gruppo

Passaggio 5. Aggiungi certificato FTD

Passare a Oggetto > Gestione oggetti > PKI > Registrazione certificato, quindi fare clic su Aggiungi registrazione certificato.

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Aggiungi registrazione certificato

Immettere le informazioni necessarie per il certificato FTD e importare un file PKCS12 dal computer locale.

- Nome: ftd-vpn-cert
- Tipo di registrazione: file PKCS12

Add Cert Enrollment

Name* ftd-vpn-cert	
Description This certificate is already enrolled on devices.Remove the en	rolment from
CA Information Certificate Parameters Key Revo	cation
Enrollment Type: PKCS12 File PKCS12 File*: ftdCert.pfx Passphrase*: Validation Usage: IPsec Client SSL Client SS Skip Check for CA flag in basic construction	Browse PKCS12 File
	Cancel Save
Dettagli di Registrazione certificato Confermare la registrazione del nuovo certificato.	

0

Firewall Managemen Objects / Object Managemen	nt Center Overview	Analysis F	Policies Device	s Objects	Integration		Deploy	۹ 🎸	° 0	admin \lor	cisco SECURE
Cipher Suite List	0.15										
> Community List	Cert Enrollment						Add Cert En	roliment	Q		
DHCP IPv6 Pool	A certificate enrollment obie	ct contains the Cer	rtification Authority	CA) server inform	ation and enrollment narameters that	t are required for creating Cer	tificate Signin	- Reques	te (CSRe) a	nd obtaining	Identity
> Distinguished Name	A certificate enrollment object contains the Certification Automnty (CA) server interfunction and enrollment parameters that are required for creating Certificates Signing Requests (CSRs) and obtaining identity Certificates from the specified CA. These activities occur in your Private Key Infrastructure (PK).										
DNS Server Group											
> External Attributes	Name							Type		Override	
File List	ftd-vpn-cert							PKC:	12 File		11
> FlexConfig								-			



Passare a Dispositivi > Certificati, fare clic su Aggiungi pulsante.

Firewall Manageme Devices / Certificates	ent Center	Dverview A	Analysis	Policies	Devices	Objects	Integration		Deploy	Q	¢	° 0	admin \vee	cisco SECURE
Filter All Certificates	¥													Add
Name	Domain	Enrollment Typ	ре	Identity Certificate	e Expiry		CA Certificate Expiry	Status						
						No certificates	Add Certificates							^

Aggiungi certificato FTD

Immettere le informazioni necessarie per associare la nuova registrazione certificato a FTD.

- Dispositivo: 1.x.x.49
- Registrazione certificato: 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*:	*	
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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Associa certificato a FTD

Confermare lo stato dell'associazione certificato.

Ę	Firewall Manageme	nt Center	Overview	Analysis	Policies	Devices	Objects	Integration		Deploy	Q	¢	° 0	ad	imin ~	cisco SE	CURE
Fil	ter All Certificates	¥														Ade	۹
	Name	Domain	Enrollment Ty	уре	Identity Certificat	te Expiry		CA Certificate Expiry	Status								
- [∨ com 1,53 J.J.49																^
	ftd-vpn-cert	Global	PKCS12 file		Jun 16, 2025			Jun 16, 2029	CA ID						± ₽ С	Ŵ	

Stato dell'associazione certificato

Passaggio 6. Aggiungi assegnazione criteri per il profilo di connessione del tecnico

Selezionare Dispositivi > VPN > Accesso remoto, quindi fare clic su Aggiungi pulsante.

Firewall Management Center Devices / VPN / Remote Access	Overview	Analysis	Policies Devices Objects	Integration		Deploy	۹	6 ° ¢	0	admin \sim	essee SECURE
											Add
Name			Status		Last Modified						
			No configuration availat	ble Add a new configura	tion						

Aggiungi VPN di accesso remoto

Immettere le informazioni necessarie e fare clic su Pulsante Avanti.

- Nome: ftd-vpn-engineer
- Protocolli VPN: SSL
- Dispositivi di destinazione: 1.x.x.49

Firewall Management Center Overview Analysis Policies Devices Objects Integration	Deploy Q 🚱 🌣 🔕 admin V 🖏 SECURE
Remote Access VPN Policy Wizard	
1 Policy Assignment 2 Connection Profile 3 Secure Client 4 Access & Certificate 5 Summa	ary
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:* Image: I	 Before You Start Brefore you start, ensure the following configuration elements to be in place to complete Remote Access VNP Policy. Authentication Server Configure LOCAL or Realm or RADIUS Server Group or SSO to authenticate VPN clients. Secure Client Package Make sure you have Sacure Client package for VPN Clients to downloaded or you have the relevant Clico credentials to downloaded or you have the relevant Clico credentials to download thuring the wizard. Device Interface Interfaces should be already configured on targeted devices so that they can be used as a security zone or interface group to enable VPN access.
	Cancel Back Next

Assegnazione criteri

Passaggio 7. Configura dettagli per il profilo di connessione del tecnico

Immettere le informazioni necessarie e fare clic su Pulsante Avanti.

- · Metodo di autenticazione: solo certificato client
- · Nome utente da certificato: campo specifico della mappa
- Campo principale: CN (nome comune)
- · Campo secondario: unità organizzativa
- Pool di indirizzi IPv4: ftd-vpn-engineer-pool
- Criteri di gruppo: ftd-vpn-engineer-grp

Firewall Management Center Devices / VPN / Setup Wizard	Analysis Policies	Devices O	Dbjects Ir	ntegration			Deploy	۹	6° ¢ (admin ~	esco SECURE
Remote Access VPN Policy Wizard											
1 Policy Assignment 2 Connection Profile	3 Secure Client	4 Access &	Certificate	5	Summary						
	Connection Profile:										
	Connection Profiles specify the tunnel itself, how AAA is accorr are defined in group policies. Connection Profile Name	e tunnel group p mplished and ho e:* ftd-vpn-er	olicies for a Vi w addresses a ngineer	PN connection are assigned	on. These policies pertain to . They also include user attri	creating the butes, which					
	 This name is configured 	as a connection	n alias, it can t	be used to c	onnect to the VPN gateway						
	Authentication, Authorization	on & Accounti	ng (AAA):								
	Specify the method of authenti connections.	ication (AAA, ce	ertificates or bo	oth), and the	AAA servers that will be use	ed for VPN					
	Authentication Method:	Client Certific	cate Only	٣							
	Username From Certificate:	 Map speci 	ific field 🔾 U	Use entire DN	I (Distinguished Name) as us	sername					
	Primary Field:	CN (Common	n Name)	Ψ.							
	Secondary Field:	OU (Organisa	ational Unit)	٣							
	Authorization Server:	(Realm or RADIUS	S)	Ţ	+						
	Accounting Server:	(RADIUS)		¥	+						
	Client Address Assignment	t:									
	Client IP address can be assign selected, IP address assignme	ned from AAA sent is tried in the	erver, DHCP so order of AAA	erver and IP server, DHC	address pools. When multip P server and IP address poo	le options are					
	Use AAA Server (Realm or	RADIUS only)	0								
	Use DHCP Servers		_								
	Use IP Address Pools										
	IPv4 Address Pools: ftd-vpn	n-engineer-pool	1	/							
	IPv6 Address Pools:			/							
	Group Policy:										
	A group policy is a collection o connection is established. Sele	of user-oriented ect or create a G	session attribu aroup Policy of	utes which a bject.	re assigned to client when a	VPN					
	Group Policy:* ftd-vpn-er	ngineer-grp	• +								
	Edit Group P	Policy									
											, marine di la companya di la compan
									Ca	ncel Back	Next

Dettagli profilo connessione

Passaggio 8. Configura immagine client sicura per il profilo di connessione del tecnico

Selezionare secure client image file e fare clic su NextButton.

Firewall Management Center Devices / VPN / Setup Wizard	rerview Analysis Policies De	evices Objects Integration		Deploy C	९ 🔮 🌣 🙆	admin \checkmark	dudu SECURE
Remote Access VPN Policy Wizar	ď						
1 Policy Assignment 2 Connection Profile	e 3 Secure Client	4 Access & Certificate 5 Summar	У				
	Remote Secure Client	Internet Outside Upp	e Inside Corporate Resources				ĺ
		AAA	A.				
	Secure Client Image						
	The VPN gateway can automatically de connection is initiated. Minimize connect	ownload the latest Secure Client package to t ion setup time by choosing the appropriate OS for	the client device when the VPN or the selected package.				
	Download Secure Client packages from (Cisco Software Download Center					
	permeen seene snent preceges nonne						
			Show Re-order buttons +				
	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

Passaggio 9. Configura accesso e certificato per profilo di connessione del tecnico

Selezionare il valore per gli elementi Gruppo interfaccia/Area di protezione e Registrazione certificato, quindi fare clic su Pulsante Avanti.

- · Gruppo di interfacce/Area di sicurezza: outsideZone
- · Registrazione certificato: ftd-vpn-cert

Firewall Management Center Overview A	analysis Policies Devices Objects Integration	Deploy Q 🚱 🌣 🕢 admin 🗸 dude SECURE
Remote Access VPN Policy Wizard		
Policy Assignment 2 Connection Profile 3	Secure Client Access & Certificate S 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:* outsideZone +	
	Enable DTLS on member interfaces	
	All the devices must have interfaces as part of the Interface Group/Security Zone selected.	
	Device Certificates	
	Device certificate (also called Identity certificate) identifies the VPN gateway to the remote access clients. Select a certificate which is used to authenticate the VPN gateway.	
	Certificate Enrollment:* ftd-vpn-cert +	
	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.	
4	Bypass Access Control policy for decrypted traffic (sysopt permit-vpn) This ontion humasees the access Control Bolicy inspection, but VPM filter ACL and	
		Cancel Back Next

Dettagli di accesso e certificato

Passaggio 10. Conferma riepilogo per il profilo di connessione del tecnico

Confermare le informazioni immesse per il criterio VPN di accesso remoto e fare clic sul pulsante Fine.



Passaggio 11. Aggiungi profilo di connessione per client VPN di gestione

Selezionare Dispositivi > VPN > Accesso remoto > Profilo di connessione, quindi fare clic sul pulsante +.

Firewall Management Center Overview Devices / VPN / Edit Connection Profile Overview	Analysis Policies Devices Objects Integration	Deploy Q 💕 🌣 🕢 admin 🗸	diada SECURE
ftd-vpn-engineer			Save Cancel
Enter Description			
		Polic	v Assignments (1)
Connection Drofile Access Interfaces Advanced		Local Realm: None Dynamic Ac	ccess Policy: None
Connection Profile Access interfaces Advanced			
			+
Name	AAA	Group Policy	
DefaultWEBVPNGroup	Authentication: None Authorization: None Accounting: None	DftGrpPolicy	/1
ftd-vpn-engineer	Authentication: Client Certificate Only Authorization: None Accounting: None	📑 ftd-vpn-engineer-grp	/1

,	Addiundi	nrofilo	di	connessione	ner	client	VPN	di	nestione
1	-sygiungi	promo	ui	CONNESSIONE	per	Chefit	VEIN	uı	yesuone

Immettere le informazioni necessarie per il profilo di connessione e fare clic su Salva pulsante.

- Nome: ftd-vpn-manager
- Criteri di gruppo: ftd-vpn-manager-grp
- Pool di indirizzi 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 Image: Cancel Save Save

Dettagli del profilo di connessione per Manager VPN Client

Confermare i nuovi profili di connessione aggiunti.

Firewall Management Center Devices / VPN / Edit Connection Profile Overview	Analysis Policies De	wices Objects	Integration		Deploy Q 🚱	🗘 🚱 admin ~	cisco SECURE
ftd-vpn-engineer					You have	unsaved changes Sav	e Cancel
Enter Description				Lo	ocal Realm: None	Policy A Dynamic Acces	ssignments (1) s Policy: None
Connection Profile Access Interfaces Advanced							
							+
Name	AAA			Group Policy			
DefaultWEBVPNGroup	Authentication: None Authorization: None Accounting: None			DfltGrpPolicy			/1
ftd-vpn-engineer	Authentication: Client Certificat Authorization: None Accounting: None	e Only		📑 ftd-vpn-engineer-grp			/1
ftd-vpn-manager	Authentication: Client Certificat Authorization: None Accounting: None	te Only		R ftd-vpn-manager-grp			/1

Conferma profili di connessione aggiunti

+

Passaggio 12. Aggiungi mapping certificati

Passare a Oggetti > Gestione oggetti > VPN > Mappa certificati, quindi fare clic sul pulsante Aggiungi mappa certificato.

Firewall Management	t Center Overview	Analysis Po	licies Devices	Objects	Integration	Deploy Q	🚱 🌣 🔕 🏻 admin 🗸	cisco SECURE
> PKI							_	
Policy List	Certificate Map					Add Certificate M	ap Q	
Port								
> Prefix List	Certificate Map Object is use connection is associated wit	d to provide an asso h the specified connert	ciation between a re ection profile.	ceived certificate	and a Remote Access VPN connection profile. If a received cer	tificate matches the	rules contained in the certi	ficate map, the
Route Map								
> Security Intelligence	Name						Value	
Sinkhole								
SLA Monitor					No records to display			
Time Range								
Time Zone								
Tunnel Zone								
URL								
Variable Set								
VLAN Tag								
V VPN								
Certificate Map								
Custom Attribute								

Aggiungi mapping certificati

Immettere le informazioni necessarie per la mappa certificati del client VPN del tecnico e fare clic su Pulsante Salva.

- Nome mappa: cert-map-engineer
- Regola di mapping: CN (nome comune) è uguale a vpnEngineerClientCN

	Map Nam	o Name*:	•*:
cert-map-engineer	cert-m	ert-map-en	p-engineer

Mapping Rule

Add Rule

Configure the certificate matching rule

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

Cancel	Save	
· · · · · · · · · · · · · · · · · · ·		

Mappa certificati per client tecnico

Immettere le informazioni necessarie per la mappa certificati del client VPN di gestione e fare clic su Pulsante Salva.

- Nome mappa: cert-map-manager
- Regola di mapping: CN (nome comune) è uguale a vpnManagerClientCN

0

Map Name*:	
cert-map-manager	
Mapping Rule	
Configure the certificate	matching rule

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

	ĺ	Cancel	Save	ľ
			L	I.
octiono				

Mappa certificati per client di gestione

Confermare le nuove mappe certificati aggiunte.

Firewall Manageme Objects / Object Managem	nt Center Overview Analysis Policies Devices Objects Integration Deploy Q 💰	admin 🗸 🚱 admin V
> PKI Policy List Port	Certificate Map Add Certificate Map	٩
> Prefix List Route Map	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 connection is associated with the specified connection profile.	es contained in the certificate map, the
> Security Intelligence	Name	Value
Sinkhole	cert-map-engineer	1 Criteria
SLA Monitor Time Range	cert-map-manager	1 Criteria 🖊 🗑

Nuove mappe certificati

Passaggio 13. Associa mappa certificato a profilo di connessione

Selezionare Dispositivi > VPN > Accesso remoto, quindi modificare ftd-vpn-engineer. Quindi, passare a Avanzate > Mappe certificati, fare clic su Aggiungi mapping pulsante.

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Firewall Managemen	t Center Overview	Analysis	Policies	Devices	Objects	Integration		Deploy	۹ 🌢	¢	admin ~	cisco S	SECURE
ftd-vpn-engineer									You h	ave unsa	aved changes	Save	Cancel
Enter Description													
											Polic	y Assignm	nents (1)
								Local Realm	: None		Dynamic Ac	cess Polic	cy: None
Connection Profile Access Inte	rfaces Advanced												
Secure Client Images	Caparal Sattings for	Connection F	Orofile Man	plag									-
✓ Secure Client Customization	The device processes the po	licies in the order	listed below u	ntil it finds a mat	ch								- 11
GUI Text and Messages	Use group URL if grou	o URL and Certif	ficate Map ma	tch different Co	onnection Prof	les							- 11
Icons and Images	Use the configured rule	es to match a ce	rtificate to a C	Connection Prof	file								- 11
Scripts	Certificate to Connect	tion Profile M	Mapping										- 11
Binaries	Client request is checked ag be chosen.	ainst each Certific	ate Map, asso	ciated Connection	on Profile will b	e used when rules ar	re matched. If none	e of the Certifica	te Map is n	natched,	default connection	n profile will	
Custom Installer Transforms	Please provide at least o	ne Certificate Mag	pping.								Ad	d Mapping	
Localized Installer Transform													₽∥
Address Assignment Policy	Certificate Map				0	connection Profile							
Certificate Mans						lo Records Found							
Group Policies													- 11

Associa mapping certificati

Associazione del mapping dei certificati al profilo di connessione per il client VPN del tecnico.

- Nome mappa certificati: cert-map-engineer
- · Connessione Profile: ftd-vpn-engineer

Add Connection Profile to Certificate Map

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



Mappa certificati di binding per client VPN del tecnico

Associazione del mapping dei certificati al profilo di connessione per il client VPN di gestione.

- Nome mappa certificati: cert-map-manager
- · Profilo connessione: ftd-vpn-manager

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



Confermare l'impostazione del binding dei certificati.

Firewall Manageme Devices / VPN / Edit Advance	nt Center Overview	Analysis Policies	Devices	Objects Integration	Deploy	९ 🔮 🌣	admin v secure		
ftd-vpn-engineer						You have uns	aved changes Save Cancel		
Enter Description Connection Profile Access Inte	erfaces Advanced				Local Realm:	: None	Policy Assignments.(1) Dynamic Access Policy: None		
Secure Client Images Secure Client Customization GUI Text and Messages Icons and Images Scripts Binaries Custom Installer Transforms	Connection Profile Access Interfaces Advanced Secure Client Images General Settings for Connection Profile Mapping Secure Client Customization Use group URL if group URL and Certificate Map match different Connection Profiles GUI Text and Messages Use group URL if group URL and Certificate Map match different Connection Profile Icons and Images Use the configured rules to match a certificate to a Connection Profile Scripts Client request is checked against each Certificate Map, associated Connection Profile will be used when rules are matched. If none of the Certificate Map is matched, default connection profile will be chosen. Custom Installer. Transforms Add Mapping								
Localized Installer Transforms	Certificate Map			Connection Profile					
Address Assignment Policy Certificate Maps	cert-map-engineer			ftd-vpn-engineer			/1		
Group Policies	cert-map-manager			ftd-vpn-manager			/1		

Conferma associazione certificato

Conferma nella CLI FTD

Confermare le impostazioni della connessione VPN nella CLI FTD dopo la distribuzione dal FMC.

```
// Defines IP of interface
interface GigabitEthernet0/0
```

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
authentication certificate
```

Conferma in client VPN

Passaggio 1. Conferma certificato client

In Engineer VPN client, passare a Certificati - Utente corrente > Personale > Certificati, verificare il certificato client utilizzato per l'autenticazione.



Conferma certificato per il client VPN del tecnico

Fare doppio clic sul certificato client, passare aDettagli, controllare i dettagli diOggetto.

Oggetto: CN = vpnEngineerClientCN

Certificate	×
General Details Certification	Path
Show: <all></all>	\sim
Field	Value Wednesday, June 18, 2025 5:
Public key parameters Key Usage	RSA (2048 Bits) 05 00 Digital Signature, Key Encipher
Enhanced Key Usage Netscape Comment Thumhorint alcorithm	client Authentication (1.3.6.1 xca certificate eba1
CN = vpnEngineerClientCN O = Cisco L = Tokyo S = Tokyo C = JP	
	Edit Properties Copy to File
	OK

Dettagli del certificato client del tecnico

In Manager VPN client, passare a Certificati - Utente corrente > Personale > Certificati, controllare il certificato client utilizzato per l'autenticazione.



Conferma certificato per client VPN di gestione

Fare doppio clic sul certificato client, passare aDettagli, controllare i dettagli diOggetto.

• Oggetto: CN = vpnManagerClientCN

💼 Certificate

General	Details	Certification Pat	h	
Show:	<al></al>		\sim	
Field			Value	^
	Ld.a.	_	Thursday, June 19, 2025 9:41	
SU SU	bject		vpnManagerClientCN, vpnMan	
Call Post	anc ney		RSA (2048 Bits)	
Put 1	blic key p	arameters	05 00	
Ke	y Usage		Digital Signature, Key Encipher	
Eni Eni	hanced Ki	ey Usage	Client Authentication (1.3.6.1	
- E Ne	tscape Co	omment	xca certificate	
1 m	mhorint	alcorithm	cha1	Y
O = Cis L = Tok S = Tok C = JP	ico tyo tyo	erclientun		I
		E	dit Properties Copy to File	•
			0	ĸ

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Dettagli del certificato client del gestore

Passaggio 2. Conferma CA

In entrambi i client VPN Engineer e manager, passare a Certificati - Utente corrente > Autorità di certificazione radice attendibili > Certificati, quindi controllare la CA utilizzata per l'autenticazione.

• Rilasciato da: ftd-ra-ca-common-name

Console1 - [Console Root\Certificates - Current	User\Trusted Root Certification A	uthorities\Certificates]			-	O X
						- 0' A
Console Root	Issued To	Issued By	Expiration Date	Intended Purposes	Friendly Nan ^	Actions
 Certificates - Current User Event State Personal 	127.0.0.1	127.0.0.1	5/17/2027	Server Authenticati	duo-endpoir	Certificates 🔺
	Baltimore CyberTrust Root	Baltimore CyberTrust Root	5/12/2025	Client Authenticati	DigiCert Balt	More 🕨
Certificates	Class 3 Public Primary Cer	Class 3 Public Primary Cer	8/1/2028	Client Authenticati	VeriSign Clas	ftd-ra-ca 🔺
> intermediate Certification Authorities	COMODO RSA Certificati	COMODO RSA Certificati Copyright (c) 1997 Micros	1/18/2038 12/30/1999	Client Authenticati Time Stamping	Sectigo (forr Microsoft Til	More 🕨
 Active Directory User Object Trusted Publishers 	DigiCert Assured ID Root	DESKTOP-VCKHRG1 DigiCert Assured ID Root	10/30/2022	<all></all>	<none></none>	
> Intrusted Certificates > Intrusted Party Root Certification Authoriti	DigiCert Assured ID Root	DigiCert Assured ID Root DigiCert Global Root CA	11/9/2031 11/9/2031	Client Authenticati Client Authenticati	DigiCert DigiCert	
> Client Authentication Issuers	DigiCert Global Root G2	DigiCert Global Root G2 DigiCert High Assurance	1/15/2038	Client Authenticati	DigiCert Glol	
> 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 9/30/2021	Client Authenticati Client Authenticati	DigiCert Trus DST Root CA	
	ftd-ra-ca-common-name	ftd-ra-ca-common-name	/16/2029	<all></all>	<none></none>	
	- Landrobaloign	olooabign	5/18/2029	Client Authenticati	GlobalSign K	

Conferma CA

Verifica

Passaggio 1. Avvia connessione VPN

In Engineer VPN Client, avviare la connessione Cisco Secure Client. Non è necessario immettere il nome utente e la password. La VPN è stata connessa correttamente.

Scisco Secu	-		\times		
	AnyConnect VPN: Connected to 192.168.1.200. 192.168.1.200	~		Disconnect	
00:01:00				B	×4
\$ ①					-4)1-4)1- CISCO

Avvia connessione VPN dal client del tecnico

Nel client VPN di gestione, avviare la connessione Cisco Secure Client. Non è necessario immettere il nome utente e la password. La VPN è stata connessa correttamente.



Avvia connessione VPN dal client di gestione

Passaggio 2. Conferma sessioni attive in FMC

Passare ad Analisi > Utenti > Sessioni attive, verificare la sessione attiva per l'autenticazione VPN.

P	Firewall Manager Analysis / Users / Active	nent Center Overview An: Sessions	alysis Policies De	evices Objects I	ntegration	Deplo	v q 🗳 🌣 🛛	admin v 🖓	SECURE
	Switch to legacy U								
T s	Select X Refresh Log G								Log Out
Showing all 2 sessions ± If →								$\mathbb{P}_0^* \ldots \to \ldots$	
	Login Time	Realm\Username	Last Seen	Authentication Type	Current IP	Realm	<u>Username</u> ↓	First Name	Last Nar
0	2024-06-19 11:01:19	Discovered Identities\vpnManagerClientC	N 2024-06-19 11:01:19	VPN Authentication	172.16.1.120	Discovered Identities	vpnManagerClientCN		
	2024-06-19 11:00:35	Discovered Identities\vpnEngineerClientC	N 2024-06-19 11:00:35	VPN Authentication	172.16.1.101	Discovered Identities	vpnEngineerClientCN		

Conferma sessione attiva

Passaggio 3. Conferma sessioni VPN nella CLI FTD

Eseguireshow vpn-sessiondb detail anyconnect il comando nella CLI di FTD (Lina) per confermare le sessioni VPN di Engineer e Manager.

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

Risoluzione dei problemi

Per informazioni sull'autenticazione VPN, vedere il syslog di debug del motore Lina e il file DART nel computer Windows.

Questo è un esempio di log di debug nel motore Lina durante la connessione VPN da un client di progettazione.

<#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

Questo è un esempio di log di debug nel motore Lina durante la connessione VPN dal client di gestione.

<#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 Informazioni correlate

Configurazione dell'autenticazione basata sul certificato Anyconnect per l'accesso mobile

Informazioni su questa traduzione

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