# Configurare la VPN ad accesso remoto FTD con MSCHAPv2 su RADIUS

# Sommario

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# Introduzione

In questo documento viene descritto come abilitare il protocollo MS-CHAPv2 (Microsoft Challenge Handshake Authentication Protocol versione 2) come metodo di autenticazione tramite Firepower Management Center (FMC) per client VPN ad accesso remoto con autenticazione RADIUS (Remote Authentication Dial-In User Service).

# Prerequisiti

#### Requisiti

Cisco raccomanda la conoscenza dei seguenti argomenti:

- Firepower Threat Defense (FTD)
- Firepower Management Center (FMC)
- Identity Services Engine (ISE)
- Cisco AnyConnect Secure Mobility Client
- protocollo RADIUS

#### Componenti usati

Le informazioni di questo documento si basano sulle seguenti versioni software:

- FMCv 7.0.0 (build 94)
- FTDv 7.0.0 (Build 94)
- ISE 2.7.0.356

- AnyConnect 4.10.02086
- Windows 10 Pro

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

Per impostazione predefinita, il protocollo FTD utilizza il protocollo PAP (Password Authentication Protocol) come metodo di autenticazione con i server RADIUS per le connessioni VPN AnyConnect.

Il protocollo PAP fornisce agli utenti un metodo semplice per stabilire la propria identità con un handshake bidirezionale. La password PAP è crittografata con un segreto condiviso ed è il protocollo di autenticazione meno sofisticato. Il protocollo PAP non è un metodo di autenticazione avanzato in quanto offre una protezione ridotta da attacchi ripetuti di tipo prova ed errore.

L'autenticazione MS-CHAPv2 introduce l'autenticazione reciproca tra peer e una funzione di modifica della password.

Per abilitare MS-CHAPv2 come protocollo utilizzato tra l'ASA e il server RADIUS per una connessione VPN, è necessario abilitare la gestione delle password nel profilo di connessione. L'abilitazione della gestione delle password genera una richiesta di autenticazione MS-CHAPv2 da FTD al server RADIUS.

# Configurazione

#### Esempio di rete



#### Configurazione di RSA VPN con autenticazione AAA/RADIUS tramite FMC

Per una procedura dettagliata, fare riferimento a questo documento e a questo video:

- Configurazione VPN ad accesso remoto AnyConnect su FTD
- <u>Configurazione iniziale di AnyConnect per FTD gestito da FMC</u>

Passaggio 1. Una volta configurata la VPN ad accesso remoto, selezionare **Dispositivi > Accesso remoto**, modificare il profilo di connessione appena creato e passare alla scheda **AAA**.

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Name	AAA	Connection Profile:* RA_VPN	
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		Authentication	
		Authentication Method: AAA Only *	
		Authentication Server: ISE_Server (RADIUS) +	
		Fallback to LOCAL Authentication	
		Use secondary authentication	
		Authorization	
		Allow concerting only if user exists is authorization database	
		Accounting	
		Accounting Server: *	
		Advanced Settings	
		Cancel See	

Espandere la sezione **Impostazioni avanzate** e fare clic sulla casella di controllo **Abilita gestione password**. Fare clic su **Salva**.

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#### La configurazione VPN ad accesso remoto nella CLI FTD è:

ip local pool AC\_Pool 10.0.50.1-10.0.50.100 mask 255.255.255.0

interface GigabitEthernet0/0 nameif Outside\_Int security-level 0 ip address 192.168.0.100 255.255.255.0 aaa-server ISE\_Server protocol radius aaa-server ISE\_Server host 172.16.0.8 key \*\*\*\*\* authentication-port 1812 accounting-port 1813 crypto ca trustpoint RAVPN\_Self-Signed\_Cert enrollment self fqdn none subject-name CN=192.168.0.100 keypair <Default-RSA-Key> crl configure ssl trust-point RAVPN\_Self-Signed\_Cert webvpn enable Outside\_Int 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/anyconnect-win-4.10.02086-webdeploy-k9.pkg 1 regex "Windows" anyconnect enable tunnel-group-list enable cache no disable error-recovery disable group-policy DfltGrpPolicy attributes vpn-tunnel-protocol ikev2 ssl-client user-authentication-idle-timeout none webvpn anyconnect keep-installer none anyconnect modules value none anyconnect ask none default anyconnect http-comp none activex-relay disable

```
file-entry disable
file-browsing disable
url-entry disable
deny-message none
tunnel-group RA_VPN type remote-access
```

tunnel-group RA\_VPN general-attributes
address-pool AC\_Pool
authentication-server-group ISE\_Server
password-management
tunnel group RA\_VDN uphump attributes

tunnel-group RA\_VPN webvpn-attributes
group-alias RA\_VPN enable

# Configurazione di ISE per il supporto di MS-CHAPv2 come protocollo di autenticazione

Si presume che:

- 1. L'FTD è già stato aggiunto come dispositivo di rete su ISE in modo che possa elaborare le richieste di accesso RADIUS dall'FTD.
- 2. Per autenticare il client AnyConnect, ISE può usare almeno un utente.

Passaggio 2. Passare a **Criterio > Set di criteri** e individuare il criterio **Protocolli autorizzati** associato al set di criteri in cui sono autenticati gli utenti AnyConnect. In questo esempio è presente un solo set di criteri, pertanto il criterio in questione è *Accesso di rete predefinito*.



Passaggio 3. Passare a Criterio > Elementi criteri > Risultati. In Autenticazione > Protocolli consentiti scegliere e modificare Accesso alla rete predefinito.

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Verificare che la casella di controllo **Consenti MS-CHAPv2** sia selezionata. Scorri fino in fondo e **salva**.



# Verifica

Passare al computer client in cui è installato il client Cisco AnyConnect Secure Mobility. Connettersi all'headend FTD (nell'esempio riportato viene utilizzato un computer Windows) e digitare le credenziali dell'utente.



I login RADIUS Live ad ISE mostrano:

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Authorization Profile	StatidPaddressUser1	
Response Time	231 milliseconds	
Other Attributes		
ConfigWersionId	147	
DestinationPort	1812	
Protocol	Radius	
NAS-Port	57344	
Tunnel-Client-Endpoint	(tag=0) 192.168.0.101	
MS-CHAP-Challenge	0141:04:tt:45:bt:41:5b:4d:b6:97:1b:b7:fe:e8:c8	
MS-CHAP2-Response	00 00 55 da ab 20 e4 45 ff 12.17.5c 20 dc af 19 45 a9 00 00 00 00 00 00 00 00 00 00 00 00 00	
CVPH3000/ASA/PDC7x-Tunnel- Group Name	RA_VPN	
NetworkDeviceProfileId	b0009505-3150-4215-a00+-0753d45b650o	
IsThirdPartyDeviceFlow	faise	
CVPN3000/ASA/PUX7x-Client-Type	2	
AcsSessionID	driverap-15E-2-7/417494978/25	
SelectedAuthenticationIdentityStore	es Internal Users	
SelectedAuthenticationIdentityStore	es All_AD_Join_Points	
SelectedAuthentication/dentityStore	es. Quest Usen	
Authentication Status	AuthenticationPassed	
IdentityPolicyMatchedRule	Default	
AuthorizationPolicyMatchedRule	Statio IP Address User 1	
1SEPolicySettlame	Default	
Identity SelectionMatchedRule	Default	
DTLS Support	Unknown	
HostidentityGroup	Endpoint Identity Groups Profiled Workstation	
Network Device Profile	Cisco	

MS-CHAP2-Success	00 53 3d 33 30 30 33 46 33 30 37 38 34 42 43 46 32 33 46 41 31 39 37 3 32 44 45 39 30 39 44 41 35 37 31 36 44 35 41 43 45 43 41	
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Device IP Address	192.168.0.100	
RADIUS Username	usert	
EnableFlag	Enabled	
IPSEC	IPSEC#s IPSEC Device#No	
Device Type	Device Type#All Device Types	

**Nota**: il comando **test di autenticazione aaa-server** utilizza sempre PAP per inviare le richieste di autenticazione al server RADIUS. Non è possibile forzare il firewall a utilizzare MS-CHAPv2 con questo comando.

firepower# test di autenticazione aaa-server ISE\_Server host 172.16.0.8 nomeutente user1 password XXXXXX INFORMAZIONI: Tentativo di verifica dell'autenticazione sull'indirizzo IP (172.16.0.8)

(timeout: 12 secondi) INFORMAZIONI: Autenticazione riuscita

**Nota:** Non modificare **gli attributi ppp del gruppo di tunnel** tramite Flex-config perché non ha effetto sui protocolli di autenticazione negoziati su RADIUS per le connessioni AnyConnect VPN (SSL e IPSec).

#### tunnel-group RA\_VPN ppp-attributes

nessuna pagina di autenticazione autenticazione chap autenticazione ms-chap-v1 nessuna autenticazione ms-chap-v2 nessuna autenticazione eap-proxy

# Risoluzione dei problemi

Le informazioni contenute in questa sezione permettono di risolvere i problemi relativi alla configurazione.

Su FTD

```
• debug radius all
```

ISE:

Registri attivi RADIUS