Configurar AnyConnect VPN em FTD usando Cisco ISE como um servidor Radius com a CA raiz de Windows Server 2012

Índice

Índice Introdução Pré-requisitos Requisitos **Componentes Utilizados** Configurar Diagrama de Rede Configuração Exporte o certificado CA raiz de Windows Server Instale o certificado CA raiz no empregado Windows/PCes do Mac Gerencia um CSR em FTD, obtenha o CSR assinado pela CA raiz de Windows Server, e instale esse certificado assinado em FTD Transfira a imagem de AnyConnect + o editor do perfil de AnyConnect e crie um perfil do .xml Configurar Anyconnect VPN em FTD (use o certificado CA raiz) Configurar a regra FTD NAT para isentar o tráfego VPN do NAT desde que será decifrado de qualquer maneira e para criar a política do controle de acesso/regras Adicionar FTD como o dispositivo de rede e configurar o grupo da política em Cisco ISE (o segredo compartilhado RAIO do uso) A transferência, instala e conecta ao FTD usando o cliente VPN de AnyConnect no empregado Windows/PCes do Mac Verificar **FTD** Cisco ISE Cliente VPN de AnyConnect Troubleshooting DNS Certificate a força (para a compatibilidade do navegador) Conectividade e configuração de firewall

Índice

Introdução

Este original descreve como configurar AnyConnect VPN (Virtual Private Network) em um Firewall FTD (defesa da ameaça de FirePOWER) usando Cisco ISE (Identity Services Engine) como um servidor Radius. Nós usamos Windows Server 2012 como nossa CA raiz (Certificate Authority) de modo que a comunicação sobre o VPN seja fixada por Certificados isto é o empregado que o PC

confiará o certificado do FTD porque o certificado FTD VPN foi assinado por nossa CA raiz de Windows Server 2012

Pré-requisitos

Requisitos

Você deve ter seguinte distribuída e ser executado em sua rede:

- Centro de gerenciamento de FirePOWER e Firewall da defesa da ameaça de FirePOWER distribuído com a conectividade básica
- Cisco ISE distribuído e que é executado em sua rede
- Windows Server (com diretório ativo) distribuído e de Windows/Mac dos empregados PC juntado ao domínio AD (diretório ativo)

Em nosso exemplo abaixo, os empregados abrirão o cliente de AnyConnect em seu PC de Windows/Mac, e conectarão firmemente à interface externa do FTD através do VPN usando suas credenciais. O FTD verificará seu nome de usuário e senha contra Cisco ISE (que verificarão com o diretório ativo de Windows Server para verificar seu username, a senha, e usuários do grupo isto é somente no grupo "empregados" AD poderá ao VPN na rede de empresa.

Componentes Utilizados

As informações neste documento são baseadas nestas versões de software:

- Centro de gerenciamento de FirePOWER e defesa da ameaça de FirePOWER que executa 6.2.3
- Cisco Identity Services Engine que executa 2.4
- Cliente de mobilidade Cisco AnyConnect Secure que executa 4.6.03049
- Diretório ativo R2 de Windows Server 2012 e serviços certificados running (esta é nossa CA raiz para todos os Certificados)
- Windows 7, Windows 10, PCes do Mac

Configurar

Diagrama de Rede

Topology



Neste caso do uso, o PC de Windows do empregado/Mac que executa o cliente VPN de Anyconnect conectará ao endereço IP público exterior do Firewall FTD, e Cisco ISE concedê-losá dinamicamente limitou ou acesso direto a determinado interno ou aos recursos de Internet (configurável) uma vez que são conectados através do VPN segundo que grupo AD são um membro no diretório ativo

Dispositivo	Hostname/FQDN	Endereço IP público	Endereço IP privado	IP address de AnyConnect
PC Windows	-	198.51.100.2	10.0.0.1	192.168.10.50
FTD	ciscofp3.cisco.com	203.0.113.2	192.168.1.1	-
FMC	-	-	192.168.1.30	-
Cisco ISE	ciscoise.cisco.com	-	192.168.1.10	-
Windows Server 2012	ciscodc.cisco.com	-	192.168.1.20	-
Servidores internos	-	-	192.168.1.x	-

Configuração

Exporte o certificado CA raiz de Windows Server

Neste original, nós usaremos o Microsoft Windows server 2012 como nossa CA raiz para

Certificados. A confiança da vontade Do PC do cliente esta CA raiz a conectar firmemente ao FTD através do VPN (veja as etapas abaixo). Isto certificar-se-á que podem conectar firmemente ao FTD sobre os recursos internos do Internet e do acesso da HOME. Seu PC confiará a conexão em seus navegador e cliente de AnyConnect.

Vá a <u>http://192.168.1.20/certsrv</u> e siga as etapas abaixo para transferir seu certificado CA raiz de Windows Server:

Clique a transferência um certificado de CA, um certificate chain, ou um CRL



Microsoft Active Directory Certificate Services - cisco-CISCODC-CA

Welcome

Use this Web site to request a certificate for your Web browser, e communicate with over the Web, sign and encrypt messages, an

You can also use this Web site to download a certificate authority pending request.

For more information about Active Directory Certificate Services,

Select a task:

Request a certificate View the status of a pending certificate request Download a CA certificate, certificate chain, or CRL

Clique o certificado da transferência e rebatize-o a 'RootCAcert3.cer

← → C ☆ ③ 192.168.1.20/certsrv/certcarc.asp

Microsoft Active Directory Certificate Services - cisco-CISCODC-CA

Download a CA Certificate, Certificate Chain, or CRL

To trust certificates issued from this certification authority, install this CA certificate.

To download a CA certificate, certificate chain, or CRL, select the certificate and encoding method.

CA certificate:

Current [cisco-CISCODC-CA] A

Encoding method:

DER Base 64

Install CA certificate Download CA certificate Download CA certificate chain Download latest base CRL Download latest delta CRL



Instale o certificado CA raiz no empregado Windows/PCes do Mac

Método 1: Instale o certificado em todo o PC do empregado empurrando o através da política do grupo de Windows Server (ideal para qualquer coisa sobre usuários 10 VPN):

<u>Como usar Windows Server para distribuir Certificados aos computadores de cliente usando a política do grupo</u>

Método 2: Instale o certificado em todo o PC do empregado instalando o individualmente em cada PC (ideal testar um usuário VPN):

o Direito-clique o certificado em Windows dos seus empregados/PC e clique do Mac **instala o** certificado



Selecione "o usuário atual"

	Welcome to the Certificate Import Wizard
	Extend responses on the part of the second subsets
	This witard helps you copy certificates, certificate trust lists, and certificate revocation lists from your disk to a certificate store.
	A certificate, which is issued by a certification authority, is a confirmation of your identi- and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept.
,	Chara Lanakan
	Current User
	O Local Machine
	To continue, did: Next.

Selecione o lugar todos os Certificados na seguinte loja e nas Autoridades de certificação de raiz confiável seletas, clique a aprovação, clique-a em seguida, e clique-ao revestimento

Certificate Store Certificate stores	are system areas whe	re certificates are k	ept.
Windows can auto	matically select a cert	ificate store, or you	can specify a location fo
O Automatical	ly select the certificat	e store based on th	e type of certificate
Place all cer	tificates in the following	ng store	
Certificate	store:		
			Browse
Select Certificate S	store	~	
Select the certificat	te store you want to u	se.	
Select the certificat	te store you want to u	se.	
Select the certificat	te store you want to u oot Certification Autho	se.	
Select the certificat	te store you want to u oot Certification Author t Trust	se.	\ \
Select the certificat	te store you want to u oot Certification Author t Trust ate Certification Author ectory User Object	se.	
Select the certificat	te store you want to u oot Certification Author e Trust ate Certification Author ectory User Object whichere	se.	

Gerencia um CSR em FTD, obtenha o CSR assinado pela CA raiz de Windows Server, e instale esse certificado assinado em FTD

Vá aos objetos > ao Gerenciamento do objeto > ao PKI > ao registro CERT, clique sobre o registro CERT Add

Overview Analysis	Policies	Devices	Objects	AMP	Intelligence	Deploy	03 System	Help 🔻	admin 🔻
Device Management	NAT V	/PN T Qo	S Platfo	rm Setting	s FlexConfig	Certificates		0	Add
Name			D	omain	En	roliment Type	Status		

O clique adiciona o botão do registro CERT

Add New Certificate		? ×
Add a new certificate to th identify certificate.	e device using cert enrollment object whi	ch is used to generate CA and
Device*:	ciscofp3	×
Cert Enrollment*:	<u> </u>	· O
		Add Cancel

Selecione o tipo > o manual do registro

Como visto na imagem abaixo, nós precisamos de colar aqui nosso certificado CA raiz:

oo Cert Enrollmer			5
lame:" Description:	FTDVPI/ServerCert		
CA Information	Certificate Parameters Key Revocation		_
Enrollment Type:	Manual	*	
	Paste the Root CA Certificate in here {we will do this in the ste	n Base-64 text format p below)	
llow Overrides:			

Éaqui como transferir seu certificado CA raiz, vê-lo no formato de texto, e colá-lo na caixa acima:

Vá a <u>http://192.168.1.20/certsrv</u>

Clique a transferência um certificado de CA, um certificate chain, ou um CRL

← → C ☆ ③ 192.168.1.20/certsrv/

Microsoft Active Directory Certificate Services -- cisco-CISCODC-CA

Welcome

Use this Web site to request a certificate for your Web browser, e communicate with over the Web, sign and encrypt messages, an

You can also use this Web site to download a certificate authority pending request.

For more information about Active Directory Certificate Services,

Select a task: Request a certificate

View the status of a pending certificate request Download a CA certificate, certificate chain, or CRL

Clique o botão da base 64 > o certificado de CA da transferência do clique

← → C ☆ ③ 192.168.1.20/certsrv/certcarc.asp

Microsoft Active Directory Certificate Services -- cisco-CISCODC-CA

Download a CA Certificate, Certificate Chain, or CRL

To trust certificates issued from this certification authority, install this CA certificate.

To download a CA certificate, certificate chain, or CRL, select the certificate and encoding method.

CA certificate:



Encoding method:

DER
 Base 64

Install CA certificate Download CA certificate Download CA certificate chain Download latest base CRL Download latest delta CRL



Abra o arquivo de RootCAcertBase64.cer no bloco de notas

A cópia e cola os índices de .cer (certificado CA raiz) do server de Windows AD aqui:



Clique a aba >> o tipo dos parâmetros do certificado sua informação do certificado

Nota:

O campo FQDN do costume deve ser o FQDN de seu FTD

O campo do Common Name deve ser o FQDN de seu FTD

A	dd Cert Enrollment		? ×
	Name:*	FTDVPNServerCert	
	Description:	ETD AnyConnect VPN Server Certificate	
	CA Information Cert	ificate Parameters Key Revocation	
	Include FQDN:	Custom FQDN	•
	Custom FQDN:	ciscofp3.cisco.com	
	Include Device's IP Address	8	
	Common Name (CN):	ciscofp3.cisco.com	
	Organization Unit (OU):	TAC	
	Organization (O):	Cisco	
	Locality (L):	San Jose	
	State (ST):	CA	
	Country Code (C):	US	
	Email (E):	tac@cisco.com	
	Include Device's Serial N	umber	*
1	Allow Overrides:		
		Save	Cancel

Dica: você pode obter o FQDN de seu FTD datilografando o comando seguinte do FTD CLI:

> show network ========[System Information]========== Hostname : ciscofp3.cisco.com Domains : cisco DNS Servers : 192.168.1.20 Management port : 8305 IPv4 Default route Gateway : 192.168.1.1 =======[br1]================= State : Enabled Channels : Management & Events Mode : Non-Autonegotiation MDI/MDIX : Auto/MDIX MTU : 1500 MAC Address : 00:0C:29:4F:AC:71 -----[IPv4]-----Configuration : Manual Address : 192.168.1.2 Netmask : 255.255.255.0 Clique a aba chave e datilografe todo o nome chave

Add Cert Enrollme	ent	? ×
Name:*	FTDVPNServerCert	
Description:	ETD AnyConnect VPN Server Certificate	
CA Information	Certificate Parameters Key Revocation	
Key Type:	● RSA ○ ECDSA	
Key Name:*	CiscoTACRSAkey	
Key Size:	2048	
Ignore IPsec Key Do not validate vi	y Usage ralues in the Key Usage and extended Key Usage extensions of IPsec remote client certific	cates.
Allow Overrides:		
	Save	Cancel

Clique a salvaguarda

Selecione seu FTDVPNServerCert que nós apenas criamos acima e o clique adiciona

Add New Certificate		? ×
Add a new certificate to th identify certificate.	e device using cert enrollment object wh	iich is used to generate CA and
Device*:	ciscofp3	¥
Cert Enrollment*:	FTDVPNServerCert	 ✓ ②
Cert Enrollment Details:		
Name:	FTDVPNServerCert	
Enrollment Type:	Manual	
SCEP URL:	NA	
		Add Cancel

Dica: Espere aproximadamente 10-30 segundos pelo FMC + FTD para verificar e instalar o certificado CA raiz (o clique refresca o ícone se não faz mostra)

Clique o botão identificação:



A cópia e cola este CSR, e toma-o a sua CA raiz de Windows Server:

Overview Analysis Policies Device	es Objects AMP Intelligenc	ce		Deploy 📀	System	Help 🔻	admin v
Device Management NAT VPN -	QoS Platform Settings FlexCo	onfig Certificates					
						٠	Add
Name	Domain	Enrollment Type	Status				
⊿ 🗐 ciscofp3							
FTDVPNServerCertificate	Global	Manual	🔍 CA) 🛕 ID 🛕 Identity certificate import requ	uired		P	φ 🖥
	Import Identity Certificate		? ×				
	Step 1 Send Certificate Signing Request (Copy tl BEGIN CERTIFICATE REQUEST- MIDD #CCAhcCoAQwoalx410ABdkm BANYBAYTANTMOSWCOYDVOOLEW BANTERNOC2N/CAALINNOC2NUM Step 2 Once certificate authority responds Identity Certificate File:	SR) to the Certificate Auth he CSR below and send to hogGw0BCOEWDXRHY0Bia DOTERMARGATUEBMIU2F WITCOMARGATUECIMICO S72br299mcDMiu2EX72Bir2 AOEA027032BD/4inC10Ff mm401dC2417/012AAsbo627 ZwvcB0823bNtE51vsHR7vU WBBI.MinLUNGSGP2mxVB back with identity certifica	hority. the Certificate Authority): XNIbV5ib20xCzA1 ULE0x22UxGsA2BaNV VZ2b50AAKANVBAST SMUBLIANBARKO D15UVBdD1LS50VW //hvWC129(5H) IEGXS/MUFN4-450 INV62UXS23[a] ITZWShEbeRni IMc te file, import it to device. Browse Identity Certificate Import Cancel				

Vá a http://192.168.1.20/certsrv



Request a certificate View the status of a pending certificate request Download a CA certificate, certificate chain, or CRL

Clique pedido do certificado avançado



Cole sua solicitação de assinatura de certificado (CSR) no campo abaixo e selecione o **servidor de Web** como o molde de certificado

\leftrightarrow \rightarrow C (192.168.1.20/certsrv/certrqxt.asp
Microsoft Active	Directory Certificate Services - cisco-CISCODC-CA
Submit a Certi	ficate Request or Renewal Request
To submit a sav (such as a Web	ed request to the CA, paste a base-64-encoded CMC server) in the Saved Request box.
Saved Request:	
Base-64-encoded certificate request (CMC or PKCS #10 or PKCS #7):	DbZCTeYL7lNbzZxPyfcuZWlBk5l8uHRvqq2YkB yiHrFim@/YlIQIJiMhyIVULXXxWGP7diLlEQ67 zvN2WFXQs3mFMUxkriEyzNlDws6vrm6ZhqjvO 8DufTZQ4E4VQ9Kp4hrSdzuHSggDTuw== END CERTIFICATE
Certificate Templa	ite:
	Web Server
Additional Attribu	tes:
Attributes:	
	Submit >

O clique **submete-se**

Clique 64 baixos o botão codificado e clique o certificado da transferência

Certificate Issued

The certificate you requested was issued to you.

DER encoded or
 Base 64 encoded



O clique **consulta o certificado de identidade** e seleciona o certificado que nós apenas transferimos

Overview Analysis Policies Device	S Objects AMP Intelligen	се		Deploy	System	Help 🔻	admin 🔻
Device Management NAT VPN -	QoS Platform Settings FlexC	Config Certificates					
							Add
Name	Domain	Enrollment Type	Status				
▲ I ciscofp3							
FTDVPNServerCertificate	Global	Manual	🔍 CA 🔺 ID 📐 Identity certificate import r	required		P	Φ 🖥
	Import Identity Certificate		? >	<			
	Step 1 Send Certificate Signing Request (Orp) II ·····BEGIN CERTIFICATE REQUEST. MILDL2CGALCAQAWadxxHDAaB&K BANTEMDC2NV2AALMNoc2NVLD01Ew BANTEMDC2NV2AALMNoc2NVLD01Ew BANTEMDC2NV2AALMNoc2NVLD01Ew BANTEMDC2NV2AALMNoc2NVLD01Ew BANTEMDC2NV2AALMNoc2NVLD01Ew BANTEMDC2NV2AALMNoc2NVLD01Ew BANTEMDC2NV2AALMNoc2NVLD01Ew BANTEMDC2NV2AAL34 + 0A37030470VvCCTB32AT PYClwdYGwT31+5/15HOBHcnaYEnJ Step 2 Once certificate authority responded Identity Certificate File: PTDVF	CSR) to the Certificate Auth the CSR below and send to individual content of the CSR below and send to individual content of the CSR below and the CSR below individual content of the CSR below and the CSR below System of the CSR below and the CSR below and the CSR below State of the CSR below and the CSR below and the CSR below individual content of the CSR below and th	hority. the Certificate Authority): XNIbVSib20xCzAJ ULE0xC2UxG2AZB0NV YC28XDCARSANVBAST SMIIBIANBOKO DISUPAGDLISSOWW VhzWCJ29ISHJ IGSXS muEfit+SQ ILIVIGJXSC3Dig TTZW9nEtoBnILMC the file, import it to device. Browse Identity Certificate Import Cancel				

O certificado de servidor de VPN FTD (assinado pela CA raiz de Windows Server) foi instalado com sucesso

Overview Analysis Policies Devices Object	s AMP Intelligence	2		Deploy	0	System	Help 🔻	admin 🔻
Device Management NAT VPN - QoS Pla	atform Settings FlexCo	nfig Certificates						
								Add
Name	Domain	Enrollment Type	Status					
⊿ III ciscofp3								
FTDVPNServerCertificate	Global	Manual	CA ID				P	Φ 🗎

Transfira a imagem de AnyConnect + o editor do perfil de AnyConnect e crie um perfil do .xml

Transfira e instale o editor do perfil de Cisco AnyConnect

Profile Editor (Windows)	20-SEP-2018	7.74 MB
tools-anyconnect-win-4.6.03049-profileeditor-k9.msi		

Abra o editor do perfil de AnyConnect

A lista de servidor do clique > o clique adicionam...

Datilografe um **nome do indicador** e o **FQDN do** IP address da interface externa do seu FTD. Você deve ver entradas na lista de servidor

VPN	Server List Profile: Untitled									
Backup Servers Certificate Pinning Certificate Pinning Certificate Matching Certificate Enrollment Certificate Enrollment Mobile Policy Server List	Hostname	Host Address	User Group	Backup Server List	SCEP	Mobile Settings	Certificate Pins			
	Note: it is highly	recommended that at l	least one server be	defined in a profile.		Add Edit	Delete Details			
	Server List Entry Server Load Balar	ncing Servers SCEP N	Nobile Certificate F	inning						
	Primary Server Display Name FQDN or IP A ciscofp3.cisc Group URL ciscofp3.cisc	e (required) ciscofp3 Address 50.com	.cisco.com User Group	Conner Prima A I	tion Information ry Protocol SA gateway uth Method During Œ Identity (IOS ga	→ IKE Negotiation ateway only)	EAP-AnyConnect 🗸			
		Backup Servers Host Address				Add Move Up				
						Move Down Delete				
and the first second				OK Can	cel					

🐴 AnyConnect Profile Editor - VPN

VPN Preferences (Part 1) Preferences (Part 2) Backup Servers Certificate Pinning Certificate Matching Certificate Enrollment Mobile Policy Server List	Server List Profile: Untit	Server List Profile: Untitled									
	Hostname	Host Address	User Group	Backup Server List Inherited	SCEP	Mobile Settings	Certificate Pins				
	ciscofp3.cisco.com	ciscofp3.cisco.com									
	1	1									
<u> </u>											
	Note: it is highly re	commended that at le	ast one server be d	efined in a profile.		Add	Delete Details				

APROVAÇÃO e arquivo > salvaguarda do clique como...

VPNprofile.xml

Transfira imagens de Windows e do Mac .package de aqui

AnyConnect Headend Deployment Package (Windows) anyconnect-win-4.6.03049-webdeploy-k9.pkg	20-SEP-2018	41.34 MB
AnyConnect Headend Deployment Package (Mac OS) anyconnect-macos-4.6.03049-webdeploy-k9.pkg	20-SEP-2018	41.13 MB

Vá aos objetos > ao Gerenciamento do objeto > ao VPN > ao arquivo > ao clique de AnyConnect adicionam o arquivo de AnyConnect

Name: "	AnyConnect_Windows_4.6.03049
File Name:"	anyconnect-win-4.6.03049-webdeploy-k9.pk Browse.
File Type:"	AnyConnect Client Image
Description:	Cisco AnyConnect Image for Windows PCs
	Save Cano
	Save Cano
AnyConnec	Save Cano
AnyConnec Name:*	Save Cano t File AnyConnect_Mac_4.6.03049
AnyConnec Name:* File Name:*	Save Canc t File AnyConnect_Mac_4.6.03049 anyconnect-macos-4.6.03049-webdeploy-k9. Browse
AnyConnec Name:* File Name:* File Type:*	Save Cance t File AnyConnect_Mac_4.6.03049 anyconnect-macos-4.6.03049-webdeploy-k9 Browse AnyConnect Client Image

Configurar Anyconnect VPN em FTD (use o certificado CA raiz)

Entre ao centro de gerenciamento de FirePOWER

O sistema do clique > a integração > os reinos > o reino novo do clique >> a tabela de diretório do clique > o clique adicionam o diretório

Save

Cancel

Overview Analysis	Policies	Devices	Objects	AMP Intelli	gence				Deploy	y 0 ₃ Sy	stem Help 🔻	admin 🔻
				Configura	tion Users	Domains	Integrat	tion Updates	Licenses 🔻	Health 🔻	Monitoring •	Tools 🔻
isetofmc											🔚 Save	😢 Cancel
Integrate FirePOWER Mana	gement Cente	r with Active	Directory ser	ver								
Directory Realm Cor	nfiguration	User Dow	nload									
											0	Add directory
URL (Hostname/IP Addr	ess and Port))						Encrypt	ion			
10.201.214.228:389								none			6	/ 6
1												
Edit directory							? ×					
Hostname / IP Address	192.168	3.1.20										
Port	389											
Encryption	STAR	ms (LDAPS	None								
SSL Certificate			*	0								
				ж	Test	Cano	bl I					

Guia de configuração do reino do clique - configurar a informação do seu controlador de domínio aqui

Overview Analysis Policie	es Devices Objects AMF	P Intelligence		Deploy 🤑 Syst	em Help v admin v
		Configuration Users Domains	Integration Updates	Licenses • Health •	Monitoring Tools
isetofmc					Save Cancel
Integrate FirePOWER Management C	enter with Active Directory server				
Directory Realm Configurati	on User Download				
AD Primary Domain *>	cisco.com	ex: domain.com			
AD Join Username	administrator@cisco.com	ex: user@domain			
AD Join Password	•••••	Test AD Join			
Directory Username *>	administrator@cisco.com	ex: user@domain			
Directory Password *>	•••••				
Base DN *	DC=cisco,DC=com	ex: ou=user,dc=cisco,dc=com			
Group DN *	DC=cisco,DC=com	ex: ou=group,dc=cisco,dc=com			
Group Attribute	Member 💌				
User Session Timeout					
User Agent and ISE/ISE-PIC Users	1440	minutes until session released.			
TS Agent Users	1440	minutes until session released.			
Captive Portal Users	1440	minutes until session released.			
Failed Captive Portal Users	1440	minutes until session released.			
Guest Captive Portal Users	1440	minutes until session released.			
* Required Field					

Nota: No exemplo acima, um username AD com do "privilégios Admin domínio" no server de Windows AD é usado. Se você quer configurar um usuário com permissões mais específicas, mais mínimas para que o FMC se junte a seu domínio do diretório ativo para sua configuração do reino, você pode ver as etapas <u>aqui</u>

Aba da transferência do usuário do clique - certifique-se que transferência do usuário sucede

Overview Analysis Policies Devices Object	ts AMP Intell	igence		Deploy	🛛 🌒 System Help 🔻 adn	nin 🔻
	Configura	ation Users Domains	Integration Upda	ates Licenses 🔻	Health Monitoring Te	ools 🔻
isetofmc Integrate FirePOWER Management Center with Active Director Directory Realm Configuration User Download	y server			LDAP Download Download users/ LDAP download suc	Dismiss Save 🐼 Ca groups from isetofmc cessful: 51 groups, 25 users downlo	oad
Download users and groups Begin automatic download at Beyin automatic download at Download Now	New York Repeat Eve	ry 24 V Hours				_
Available Groups 😋		Groups to Include (0)		Groups to Exclude (0)	
🔍 Search by name						
Enterprise Admins Hyper-V Administrators Group Policy Creator Owners Gouri-group2 Cloneable Domain Controllers Distributed COM Users Allowed RODC Password Replication Group Cryptographic Operators Server Operators Remote Desktop Users WinRMRemoteWMIUsers Users Vindows Authorization Access Group Enterprise Read-only Domain Controllers Domain Admins Domain Users	Add to Include Add to Exclude					
A Pre-Windows 2000 Compatible Access	•	Enter User Inclusion	Add	Enter User Exclusion		Add

Os dispositivos do clique > o VPN > o Acesso remoto > o clique adicionam

Overview Analysis	Policies D	evices	Objects	AMP	Intelligence		Deploy	e,	System	Help 👻	admin 🕶
Device Management	NAT VPN	+ Remot	e Access	Qo5	Platform Settings	FlexConfig	Certificates				
	1								6	0	Add
Name	- /		st	atus		Last Mo	dified		/		
			No confi	guratio	n available Add a	a new confid	uration				

No configuration available Add a new configuration

Datilografe um nome, descrição, e o clique adiciona para selecionar o dispositivo FTD em que você quer configurar Anyconnect VPN

Overview Analysis Policies	Devices Objects AMP Intelligence		Deploy 🧕 System Help 🕶 admin 🔻				
Device Management NAT VI	PN + Remote Access QoS Platform Settin	ngs FlexConfig Certificates					
Remote Access VPN Polic	cy Wizard						
1 Policy Assignment 2	Connection Profile 3 AnyConnect	📏 🌗 Access & Certificate 📏 🤅	Summary				
Targeted Devic	es and Protocols	the Barraha farmer (1991 and in 1995	A Refere You Shed				
a new user-defined	connection profile.	the Remote Access VPN policy with	Before you start, ensure the following configuration elements to be in place to				
Name:**	FTDAnyConnectVPN		complete Remote Access VPN Policy.				
Description:	AnyConnect VPN configuration for this FTD		Authentication Server				
			to authenticate VPN clients.				
VPN Protocols:	SSL IPsec-IKEv2		AnyConnect Client Package				
Targeted Devices:	Available Devices	Selected Devices	Make sure you have AnyConnect package for VPN Client downloaded or you have				
	🔍 Search	10.201.214.134	the relevant Cisco credentials to download it during the wizard.				
	10 20 20 1 2 1 2 1 2 1 2 1 2 1		Device Interface				
	- 244		Interfaces should be already configured on targeted <u>devices</u> so that they can be used as a security zone or interface group to enable VPN access.				

Cisco Identity Services Engine PSN (a política presta serviços de manutenção ao nó)

Overview Analysis Policies Devices Objects AMP Intelligence		Deploy 🧛	System H	elp v ad	min +
Device Management NAT VPN + Remote Access QoS Platform Settings FlexConfig Certificates				_	_
Remote Access VPN Policy Wizard					
1 Policy Assignment 2 Connection Profile 3 AnyConnect 3 Access & Certificate	S Summary				
Remote User Applanet Clark	District Corporate Resources				ĺ
Connection Profile:					- 1
Connection Profiles specify the tunn accomplished and how addresses an	el group policies for a VPN connection. These policies pertain to creating the tunnel itself, how AAA is e assigned. They also include user attributes, which are defined in group policies.				- 1
Connection Profile Name:*	FTDAnyConnectVPN				- 1
	This name is configured as a connection alias, it can be used to connect to the VPN gataway				- 17
Authentication, Authorization & A	Accounting (AAA):				- 1
Specify the method of authentication	n (AAA, certificates or both), and the AAA servers that will be used for VPN connections.				- 1
Authentication Method:	AAA Only				- 1
Authentication Server:*	(Realm or RADIUS)				- 1
Authorization Server:	Use same authentication server 🐱 Realm				- 1
Accounting Server:	RADIUS Server Group				- 1
Client Address Assignment:					- 1
Client IP address can be assigned fro assignment is tried in the order of A	om AAA server, DHCP server and IP address pools. When multiple options are selected, IP address AA server, DHCP server and IP address pool.				- 1
Use AAA Server (RADIUS	cnly) 🚺				- 1
Use DHCP Servers					
🕅 Use IP Address Pools					
1Pv4 Address Pools:					
IPv6 Address Pools:	<i>•</i>				
Group Policy:					
A group policy is a collection of user- or create a Group Policy object.	-oriented session attributes which are assigned to client when a VPN connection is established. Select				
Group Policy:*	DfttGrpPolicy				
	Edit Group Policy				
		Back	Next	Cancel	

Datilografe um **nome** para o servidor Radius Selecione seu **reino** configurado acima O clique **adiciona**

dd RADIUS Server Grou	ib.			? :
Name:*	CiscoISE			
Description:	Cisco ISE (Joined to W	indows AD Server)		
Group Accounting Mode:	Single	~		
Retry Interval:*	10	(1-	10) Seconds	
Realms:	isetofmc	~		
Enable authorize only				
Enable interim account upda	ate			
Interval:*		(1-	120) hours	
Enable dynamic authorizatio	n			
Port:*		(10	124-65535)	
RADIUS Servers (Maximum 16	servers)			6
IP Address/Hostname				
	No records to d	isplay		
			Save	ancel

Datilografe a informação seguinte para seu nó de Cisco ISE:

IP address/hostname: O IP address de Cisco ISE PSN (nó do serviço da política) - isto é onde os

pedidos de autenticação irã0 Chave: cisco123 **Confirme a chave**: cisco123

IP Address/Hostname:*	192.168.1.10 Configure DNS at Threat Defense Platform Settin	as to resolve hostname
Authentication Port:*	1812	(1-65535)
Key:*		
Confirm Key:*		
Accounting Port:	1813	(1-65535)
Timeout:	10	(1-300) Seconds
Connect using:	Routing Specific Interface	
		v 0.
Redirect ACL:		- 0

Cuidado: o acima é sua chave secreta compartilhada RAIO - nós usaremos esta chave em uma etapa mais atrasada

Nota: Quando o utilizador final tenta conectar ao FTD através de AnyConnect VPN, o username + a senha que datilografa estarão enviados como um pedido de autenticação a este FTD. O FTD enviará esse pedido ao nó de Cisco ISE PSN para a autenticação (Cisco ISE verificará então o diretório ativo de Windows para ver se há esse nome de usuário e senha, e reforça o controle de acesso/acesso de rede segundo a circunstância que nós temos configurado atualmente em Cisco ISE)

dd RADIUS Server Grou	P				7
Name:*	CiscoISE	CiscolSE			
Description:	Cisco 15E (joined to 1	Vindows AD ser	ver)		
Group Accounting Mode:	Single	*			
Retry Interval:*	10		(1-10) Seconds		
Realms:	isetofmd	*			
Enable authorize only					
Enable interim account updat	ie -				
			(1-120) hours		
Enable dynamic authorization	6				
Parts*			(1024-63535)		
RADIUS Servers (Maximum 16 s	ervers)				0
IP Address/Hostname					
192.168.1.10				0	9
			Saus 1	~	لمعم

Salvaguarda do clique O clique edita para o conjunto de endereços IPv4

Overview Analysis Policies Devices Objects AMP Intelligence		Deploy 🤷 System Help 🔻 admin 🗸
Device Management NAT VPN • Remote Access QoS Platform Settings FlexConfig Ce	rtificates	
Remote Access VPN Policy Wizard		
Policy Assignment O Connection Profile 3 AnyConnect Access-& Cent	ificate Summary	
Remote User Anyo	Deternet Client	
Connection Prof	le:	
Connection Profiles a accomplished and h	peofy the tunnel group policies for a VPN connection. These policies pertain to creating the tunnel itself, how AAA is waddresses are assigned. They also include user attributes, which are defined in group policies.	
Connection P	rofile Name:* FTDAnyConnectVPN	
	This name is configured as a connection alias, it can be used to connect to the VPW gateway	
Authentication, Au	thorization & Accounting (AAA): f wither tration (AAA, cartificates or both), and the AAA services that will be used for VDN concertions.	
appeary one meaned a	a destanda (avera de la contrata de la	
Authenticatio	AAA Only	
Authenboatio	n Server:" CiscoISE V Q+ (Realm or RADIUS)	
Authorization	Server: Use same authentication server V Q (RADIUS)	
Accounting S	erver:	
Client Address Ass	gnment:	
assignment is tried in	the order of AAA server, DHCP server and IP address pool.	
💷 Use AAA S	erver (RADIUS only) 🕕	
Use DHCP	Servers /	
KI Use IP Ad	Iress Pools	
1Pv4.	iddress Pools:	
1976	iddress Pools:	
Group Policy:		
A group policy is a cr or create a Group Po	flection of user-oriented session attributes which are assigned to client when a VPN connection is established. Select icy object.	
Group Policy	• DftgrpPolicy V	
	Edit Group Policy	
		Back Next Cancel
Last login on Wednesday, 2018-10-10 at 10:30:14 AM from 10.152.21.157	How-Tos	-ili-ili- cisco

O clique adiciona

Address Pools	7 ×
Available IPv4 Pools C	Selected IPv4 Pools
	Add
	OK. Cancel

Datilografe um nome, uma escala de endereço IPv4, e uma máscara de sub-rede

Add IPv4 Pool			? ×
Name:*	Inside-Pool		
IPv4 Address Range:*	192.168.10.50-192.168.10.250		
	Format: ipaddr-ipaddr e.g., 10.72.1.1-10.72.1.150		
Mask:	255.255.255.0		
Description:	IP Addresses that the Windows/Mac PC will get when they connect via VPN to the ETD		
Allow Overrides: 🕑			
O Configure device over shared across multip	errides in the address pool object to avoid IP address co le devices	onflicts in case	of object is
Override (0)			
	E	Save	Cancel

Selecione seu pool do IP address e clique a aprovação

Address Pools			? :
Available IPv4 Pools 🖒	0	Selected IPv4 Pools	
🔍 Search		Inside-Pool	6
Prv4 Smide-Pod		Inside-Pool 192.168.10.50	-192.168.10.250
	A	ad	

O clique edita a política do grupo

Overview Analysis Policies Devices Objects AMP Intelligence					Deploy
Device Management NAT VPN • Remote Access QoS Platform Set	tings FlexConfig Certificat	tes			
Remote Access VPN Policy Wizard					
1 Policy Assignment 2 Connection Profile 3 AnyConnect	Access & Certificate	e)		5) Summary	
Connection Profile Name:*	CTD1 au Constanti (Di)	-	1	2.) (
	FIDANYCONNECTVPN			a contract of the second second	
	i nis name is connigured as a connectio	er anas	с, н с е	can be used to connect to the very gateway	
Authentication, Authorization & A	ccounting (AAA):			where the heart of the second second second	
Specify the method of authentication	(AAA, certificates or both), and the A	LAA SE	rver	is that will be used for VPN connections.	
Authentication Method:	AAA Only	*			
Authentication Server:*	CiscoISE	~	0.	(Realm of RADIUS)	
Authorization Server:	Use same authentication server	*	0	(RADIUS)	
Accounting Server:		*	0	(RADIUS)	
Client Address Assignment:					
Client IP address can be assigned fro assignment is tried in the order of AA	m AAA server, DHCP server and IP ad A server, DHCP server and IP address	idress s pool	poo	is. When multiple options are selected, IP address	
Use AAA Server (RADIUS)	only) 🕕				
Use DHCP Servers	100 g = 1				
Use IP Address Pools					
IPv4 Address Pools:	Inside-Pool		0		
IPv6 Address Pools:			0		
Group Policy:					
A group policy is a collection of user- or create a Group Policy object.	oriented session attributes which are	assign	ned t	to client when a VPN connection is established. Select	
Group Policy:*	DfltGrpPolicy Edit Group Policy	*	0		

A aba > os **perfis** > o clique de **Anyconnect do** clique **adicionam**

Fr	lit.	Gr	OUT	-	Dali	C14
	11.	OI.	UU.	P. 1	Our	Cγ

Name:"	DfitGrpPol		
Description:			
General	AnyConnect	Advanced	
Profiles		AnyConnect profiles contains settings for the VPN client functionality and c	optional
SSL Settings		features. FTD deploys the profiles during AnyConnect client connection.	/
Connection Set	tings	Client Profile:	
		Standalone profile editor can be used to create a new or modify existing A profile. You can download the profile editor from Cisco Software Download	Add nyconnect Center.

Datilografe um **nome** e o clique **consulta**... e seleciona seu arquivo VPNprofile.xml de etapa 4 acima

Overview Analysis Policies Devices Objects	AMP Intellige	ence	Deploy 🧕 System Help 🛪 admin 🔻
Device Management NAT VPN + Remote Access	QoS Platform	m Settings FlexConfig Certificates	
Remote Access VPN Policy Wizard			
1 Policy Assignment 2 Connection Profile	3) AnyCon	mect 🔰 🖪 Access & Certificate 🔰 🚯 Summary	
E	dit Group Policy	у ? Х	
л	fame:* D	OftGrpPolicy	
Authe D	Description:		
Specifi			
	General AnyCor	nnect Advanced	
	Profiles Add	d AnyConnect File ? × onal	
	Connection Se		
Client		Name: AnyConnect_XML_Profile	
Client		File Name:* VPNprofile.xml Browse Inter.	
		File Type:" AnyConnect Client Profile V	
		Description VIII profile we created upon Drofile Editor aprile	
		Are prove we dealed daily none color came	
		Save Cancel	
Group A grou			a
or crea			
		Save Cancel	
			Back Next Cancel

Salvaguarda do clique e clique em seguida

Selecione as caixas de seleção para seu arquivo de AnyConnect Windows/Mac de etapa 4 acima

Overview Ana	alysis Policies Devices Obje	ects AMP Intelligence	Deploy	🗛 System Help 🕶 admin 🕶
Device Managem	nent NAT VPN • Remote Acc	ess QoS Platform Settings Flex	Config Certificates	
Remote Acc	ess VPN Policy Wizard			
1 Policy Assi	ignment $>$ (2) Connection Pro	ofile 3 AnyConnect 4 A	ccess & Certificate $>$ (5)	Summary
Remote	AnyConnect Client Image e VPN gateway can automatically downloa iated. Minimize connection setup time by c	Internet Outside	VPN Device Inside	Corporate Resources
Dov	wnload AnyConnect Client packages from C	isco Software Download Center.	Show Re-order buttons	
	AnyConnect File Object Name	AnyConnect Client Package Name	Operating System	
	AnyConnect_Mac_4.603049	anyconnect-macos-4.6.03049-webdeploy-k9	Mac OS 👻	
	AnyConnect_Windows_4.6.03049	anyconnect-win-4.6.03049-webdeploy-k9.pkg	Windows	
				-

Clique em seguida

Selecione a **zona do grupo de interface/Segurança** como a **parte externa** Selecione o **certificado de registro** como seu certificado que nós fizemos em etapa 3 acima

Overview Analysis Policies Devices Objects AMP Intelligence	Deploy 🍳 System Help 🕶 admin 🕶
Device Management NAT VPN + Remote Access QoS Platform Settings FlexConfig Certificates	
Remote Access VPN Policy Wizard	
Policy Assignment O Connection Profile O AnyConnect O Access & Certificate O Summary	
Remote User AnyConnet Clext	
Network Interface To 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: * Outside * •	
Enable DTLS on member interfaces	
Device Certificates Device certificate (iso called Identity certificate) identifies the VPN gateway to the remote access clients. Select a certificate which is used to authenticate the VPN gateway.	
Certificate Enrolment:* PTD/PUSErverCert V	
Access Control for VPN Traffic All decrysted traffic in VPN trunnel is subjected to the Access Control Policy by default. Select this option to bypass decrysted traffic from the Access Control Policy.	
In press Access Concern Darkov Parket Table (concept permitting) The press Access Concern Parket Table Access and the presence of the prese	
	X
	Back Next Cancel

Reveja sua configuração e clique-a em seguida



Configurar a regra FTD NAT para isentar o tráfego VPN do NAT desde que será decifrado de qualquer maneira e para criar a política do controle de acesso/regras

Crie uma **regra do** NAT estático para certificar-se que o tráfego VPN não obtém NAT'd (FTD já decifra os pacotes de AnyConnect enquanto vêm à interface externa, assim que é como se esse PC é já atrás da interface interna, e *já* têm um endereço IP privado - nós ainda precisamos de configurar uma regra (Nenhum-NAT) NAT-isenta para esse tráfego VPN): Vá aos **objetos** > ao clique **adicionam a rede** > o clique **adicionam o objeto**

Edit Network	Objects	?	×
Name:	inside-subnet		
Description:			
Network:	192.168.1.0/24		
Allow Overrides:	Format: ipaddr or ipaddr/le range (ipaddr-ipaddr)	n o	r
	Save Can	cel	

E	dit Net	wor	k Obje	cts		? ×						
1	Name:		outs	ide-subne	t-anyconne	ct-pool						
1	Descriptio	n:										
	Network:		192	.168.10.0/	24							
	Allow Ove	rride	Forr rang s:	mat: ipad ge (ipadd	dr or ipad r-ipaddr)	dr/len or						
			(Save		Cancel						
Over	view Analysis Pol	licies De	vices Objects A	MP Intelligence						Deploy	System Help	🔻 admin 🔻
Exa NAT po	e Management NAT mple_Compan dicy	T VPN •	QoS Platform Si Policy	ettings FlexConfig	Certificates						Save	Cancel
Rules	by Device										0	Add Rule
						Original Packet			Translated Packet			. Here there
#	Direction	Туре	Source Interface Objects	Destination Interface Objects	Original Sources	Original Destinations	Original Services	Translated Sources	Translated Destinations	Translated Services	Options	
▼ NAT	Rules Before 🗲											
1	*	Static	🚠 Inside	🚑 Outside	🚌 inside-subnet	in outside-subnet-anyconnect-pool		📄 inside-subnet	autside-subnet-anyconnect-pool		Constalse	/ 0
▼ Auto	NAT Rules								·			
	+	Dynamic	🚓 Inside	👬 Outside	inside-subnet			🍓 Interface			🍓 Dns:false	e 🕄
T NAT	Pular After											

Adicionalmente, você deve permitir que o tráfego de dados flua após o usuário VPN dentro. Você tem duas escolhas para este:

a. Crie permitem ou negam as regras para permitir que ou negar os usuários VPN alcancem determinados recursos

b. Permita do "a política do controle de acesso desvio para o tráfego decifrado" - isto deixa qualquer um que pode conectar com sucesso ao FTD através do desvio ACL VPN e do acesso que qualquer coisa atrás do FTD sem ir completamente permite ou nega regras na política do controle de acesso

Permita a política do controle de acesso do desvio para o tráfego decifrado abaixo: Dispositivos > VPN > Acesso remoto > perfil > interfaces de acesso VPN:

Access Control for VPN Traffic

Bypass Access Control policy for decrypted traffic (sysopt permit-vpn) Decrypted traffic is subjected to Access Control Policy by default. This option bypasses the inspection, but VPN Filter ACL and authorization ACL downloaded from AAA server are still applied to VPN traffic.

Nota: Se você não permite esta opção, você precisará de ir às políticas > à política do controle de acesso e para criar permita que as regras para que os usuários VPN possam alcançar atrás as coisas internas ou o dmz

ClickDeployin o direita superior do centro de gerenciamento de FirePOWER

Adicionar FTD como o dispositivo de rede e configurar o grupo da política em Cisco ISE (o segredo compartilhado RAIO do uso)

Entre ao Cisco Identity Services Engine e a **administração** > os **dispositivos de rede** > o clique do clique **adicionam**

dentity Services Engine	Home + Context	Visibility	Policy - Administration	Work Centers	
System Identity Management	· Network Resources	Device Portal Managen	tent pxGrid Services + Feed	Service	
Network Devices Network Device 0	Groups Network Devi	ce Profiles External RAD	US Servers RADIUS Server Ser	equences NAC Managers External MDM	 Location Services
Network Devices	Network Devic	es			
Default Device	1 m 1 m	Dec. 1 .			
Device Security Settings	Edit 4 Add	un Duplicate	Generate PAC	A Delete +	4-1
	Name	 Profile Name 	Location	Туре	Description
	ASAv2	da Cisco 🕀	All Locations	Cisco Devices	asa lab
	CatalystSwitc	h 🟥 Cisco 🕀	All Locations	All Device Types	Catalyst 3850 Switch
	CiscoWLC	🚌 Cisco 🕀	All Locations	All Device Types	Cisco 3504 WLC
	CiscoWLC2	🚓 Cisco 🕀	All Locations	All Device Types	WLC at desk

Datilografe um **nome**, datilografe o **IP address de** seu FTD, e datilografe seu **segredo compartilhado RAIO das** etapas acima

Cuidado: Este deve ser a relação/IP address para fora que o FTD pode alcançar seu Cisco ISE (servidor Radius) isto é a relação FTD que seu Cisco ISE pode alcançar o FTD sobre

-thole- Identity Services Engine Home	Context Visibility F Operations F Policy ✓A	tministration Vork Centers
System Identity Management Vetwork	Resources	Feed Service Threat Centric NAC
Network Devices Network Device Groups	Network Device Profiles External RADIUS Servers RADIU	S Server Sequences NAC Managers External MDM
Netwo	rk Devices List > FTDVPN	
Network Devices Netw	vork Devices	
Default Device	* Name FTDVPN	
Device Security Settings	Description	
	14 I I I I I I I I I I I I I I I I I I I	
	IP Address • IP : 192.168.1.1	/ 32
	* Device Profile 📄 AlcatelWired 👻 🕀	
	Model Name	
	Software Version	
	Network Device Group	
	Location All Locations Set To Default	
	IPSEC No.	
	Device Type All Device Types	
	All Device Types	
	KADIOS Autoentication Settings	
	RADIUS UDP Settings	
	Protocol	RADIUS
	* Shared Secret	cisco123 Hide
	Use Second Shared Secret	
		Show
	CoA Port	1700 Set To Default
	RADIUS DTL S Settings (2)	
	DTLS Required	
	Shared Secret	radius/dtis (7)
	CoA Port	2083 Set To Default
		(assessments)

A política do clique > a política ajustada > criam uma política ajustada para todos os pedidos de autenticação que entrarem do seguinte tipo:

O Raio-NAS-porta-tipo IGUALA virtual

Isto significa se alguma requisição RADIUS que entrar o ISE que olha como conexões de VPN, ela baterá este grupo da política

dada l	dentity Se	ervices Engine Hom	e + Context Visibility + Opera	ations Pr	kcy + Administration + Work Centers	(1) License Warring 4	e (0 0
Policy	Sets Pri	ofling Posture Client P	rovisioning + Policy Elements						
Policy	Sets							Reset	Save
۲	Status	Policy Set Name	Description	Con	ibons	Allowed Protocols / Server Sequence	Hits	Actions	s View
Search	5).								
	0	OuestSSID		Ŷ	Airespace-Airespace-Wan-Id EQUALS 1	Default Network Access 🔹 🍝	181	0	>
	0	EmployeeSSID		Ŷ	Arrespace Arrespace-Wan-Id EQUALS 2	Default Network Access * * +	605	٥	>
1	0	VPN Users		-	Radius NAS-Port-Type EQUALS Virtual	Default Network Access * * +		٥	>
	0	Default	Default policy set			Default Network Access * * +	1380	0	>
								Reset	Save

Éaqui onde você pode encontrar essa condição em Cisco ISE:

Editor

2	Select a	mibute	for cont	stion									,
	•		0	₽	ନ	132	2	凰	©	1	o	Ŀ	Ŧ
		Dictio	nary			At	ribute			1	D	Info	
		Al Di	ctonarie	8		30	LS.			×	0		
	8	Radiu	ř.			NA	S-Port-Id			- 54	7	Ø	1
	=	Radu				NA	S-Port-Ty	pe		4	1	0	

Edite a política ajustam-no criado acima

Adicionar uma regra acima da regra de bloqueio de padrão dar da "o perfil da autorização do **acesso licença**" dos povos somente se estão no grupo do diretório ativo chamado "**empregados**":

Parting	•	۲	🕕 🛛 License Warning 🔺 🔍	0			Work Centers	acy Administrat	y + Operations + Pe	Context Visibil	10 Home I	vices Engli	ity Servi	ides
State Policy Stat Ame Description Contions Advender/Second Second									lements	g + Policy	ure Client Provision	ling Post	Profile	olicy Set
Status Policy Set Name Description Conditions Adveed Produced A Server Seque estrict Image: Seque MAS-Ron Type EGUALA S Musil Image: Seque MAS-Ro	Sav	Reset									ers	VPN Use	ets → V	licy S
Status Nut Name Default Nation Access Option Default Nation Access Image: Constances Default Nation Access Default Nation Access Default Nation A	nce Hi	Sequenc	Allowed Protocols / Server S					litions	Con	Description	Name	Policy Set	tatus P	-
Image: Notes Default Notes Peerly (2) Image: Notes Conditions Use He Image: Notes Image: Notes Image: Notes He Image: Notes Image: Notes Image: Notes Image: Notes He Image: Notes Image: Notes </td <td></td> <td>arch</td>														arch
Authentication Policy (2) Statis Rule Name Condions Condions Mulber, D, Stores Author, Stores Condions Author, Stores Condions Author, Stores Condions Author, Stores Condions Condio	+ 5		Default Network Access				EQUALS Virtual	Radius NAS-Port-Ty				VPN Users	⊙ v	
• Statis Rule Name Conditions Use H Search • Detxix • Detxix <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Policy (2)</td><td>tication F</td><td>Authe</td></tr<>												Policy (2)	tication F	Authe
State Defx Al_User_UD_Stares * O Defx Al_User_UD_Stares * > Options * O Defx Defx Al_User_UD_Stares * > <	s Action	Hits		Use					5	Condition	ne	Rule Nat	Status	•
Image:														Search
Image: Security Groups Image: Security Groups Authorization Policy - Local Exceptions Authorization Policy - Local Exceptions Authorization Policy - Local Exceptions Authorization Policy - Coal Exceptions Authorization Policy - Local Exceptions Authorization Policy - Coal Exceptions Authorization Policy - Local Exceptions Authorization Policy - Coal Exceptions Authorization Policy - Local Exceptions Authorization Policy - Coal Exc			ulser_ID_Stores * *	All_User_									0	
Attornation Policy - Local Exceptions Authornation Policy - Local Exceptions Authornation Policy - Colobal Exception Policy - Colobal Exception Policy - Colobal Exception Po	Ŷ	0	Options	> Optio					bless_802.1X	• •		Dot1X	0	
Authorization Policy - Local Exceptions Authorization Policy - Local Exceptions Authorization Policy - Colobal Exc			User_ID_Stores * *	AJI_User_									0	
Authorization Policy - Local Exceptions - Authorization Policy - Global Exceptions	Ŷ	29	Dptions	> Optio								Detaut	0	
Authorization Policy - Global Exceptions											cal Exceptions	Policy - Lot	zation Pe	Autho
Authorization Policy (2) Authorization Policy (2) Results Results Status Rule Name Conditions Conditions Conditions Profiles Search Versent Ve											bal Exceptions	Policy - Gk	zation P	Autho
Number of the state Results Results State Rule Name Profiles Security Groups												Policy (2)	zation Pe	Autho
+ Status Rule Name Conditions Profiles Security Groups H Search						Results								
Seach Seal Seal Seal Seal Seal Seal Seal Seal	s Action	Hits	rity Groups	Security G		Profiles			5	Condition	пе	Rule Nar	Status	+
O Default Solidat hom list • + 2	1													Search
	ò	2	ect from Sist 🔹 🔸	Select to	+	N Deny Access						Default	0	
hood	ow above	rt new row	Inser											

Éabaixo como sua regra olhará uma vez completa

in le	lentity Ser	rvices Engine Home +	Context Visibility		on					1	License Warning 🔺	९ 6	•	5
licy Se	ts Profi	ling Posture Client Provisioning	Policy Elements											
icy :	Sets 🔶 \	VPN Users										Rese	t 🚺	Save
	Status	Policy Set Name	Description	Conditions						Al	lowed Protocols / Se	rver Sequ	ence	Hit
arch														
	0	VPN Users		Radius-NAS-Port-Type	e EQUALS Virtual						Default Network Access	× *	+	8
Auth	entication	Policy (2)												
Ð	Status	Rule Name	Conditions							Use		н	ts A	ction
arc														
	-									All_User_ID_S	Stores	× •		
	0	Dot1X	Wireless_802.1X							> Options)	0
	•									All_User_ID_S	Stores	× •		
	۲	Default								> Options		4	8	9
Auth	orization P	Policy - Local Exceptions												
Auth	prization F	Policy - Global Exceptions												
uth	orization F	Policy (2)												
								Results						
•	Status	Rule Name	Conditions		,		~	Profiles		Security Grou	ups	н	ts A	ctio
arcl					/			`						
/	0	Allow FTD VPN connections if AD Group VPNusers	Ciscode External Groups E	EQUALS cisco.com/Users/Emplo	oyees			PermitAccess	+	Select from lis	st 👻	+ 2	2	¢
	ø	Default						× DenyAccess	+	Select from lis	st 👻	+	2	¢

A transferência, instala e conecta ao FTD usando o cliente VPN de AnyConnect no empregado Windows/PCes do Mac

Abra seu navegador no empregado Windows/PC do Mac, e vá ao endereço exterior de seu FTD em seu navegador

← → C ③ https://ciscofp3.cisco.com

Datilografe seu nome de usuário e senha do diretório ativo

Group	FTDAnyConnectVPN •
Username	smith
Password	
	Logon



Clique a transferência



Instale e execute o cliente seguro da mobilidade de AnyConnect VPN no PC de Windows/Mac

🕥 Cisco AnyCo	nnect Secure Mobility Client		• 🗙
	VPN: Ready to connect. ciscofp3.cisco.com	- Conne	ect
‡ (i)		_	aliala cisco

Datilografe seu nome de usuário e senha do diretório ativo quando alertado

Você será dado um IP address do pool do IP address criado acima na etapa 5 e em um gateway padrão do .1 nessa sub-rede



Verificar

FTD

Comandos show

Verifique em FTD que o utilizador final está conectado a AnyConnect VPN:

> show ip System IP Addresses: Interface Name IP address Subnet mask Method GigabitEthernet0/0 inside 192.168.1.1 255.255.255.240 CONFIG GigabitEthernet0/1 outside 203.0.113.2 255.255.240 CONFIG Current IP Addresses: IP address Subnet mask Interface Name Method GigabitEthernet0/0 inside 192.168.1.1 255.255.255.240 CONFIG GigabitEthernet0/1 outside 203.0.113.2 255.255.255.240 CONFIG > show vpn-sessiondb detail anyconnect

Session Type: AnyConnect Detailed Username : jsmith Index : 2 Assigned IP : 192.168.10.50 Public IP : 198.51.100.2 Protocol : AnyConnect-Parent SSL-Tunnel DTLS-Tunnel License : AnyConnect Premium Encryption : AnyConnect-Parent: (1)none SSL-Tunnel: (1)AES-GCM-256 DTLS-Tunnel: (1)AES256

Hashing : AnyConnect-Parent: (1)none SSL-Tunnel: (1)SHA384 DTLS-Tunnel: (1)SHA1 Bytes Tx : 18458 Bytes Rx : 2706024 Pkts Tx : 12 Pkts Rx : 50799 Pkts Tx Drop : 0 Pkts Rx Drop : 0 Group Policy : DfltGrpPolicy Tunnel Group : FTDAnyConnectVPN Login Time : 15:08:19 UTC Wed Oct 10 2018 Duration : 0h:30m:11s Inactivity : 0h:00m:00s VLAN Mapping : N/A VLAN : none Audt Sess ID : 0ac9d68a000020005bbe15e3 Security Grp : none Tunnel Zone : 0 AnyConnect-Parent Tunnels: 1 SSL-Tunnel Tunnels: 1 DTLS-Tunnel Tunnels: 1 AnyConnect-Parent: Tunnel ID : 2.1 Public IP : 198.51.100.2 Encryption : none Hashing : none TCP Src Port : 53956 TCP Dst Port : 443 Auth Mode : userPassword Idle Time Out: 30 Minutes Idle TO Left : 0 Minutes Client OS : win Client OS Ver: 6.1.7601 Service Pack 1 Client Type : AnyConnect Client Ver : Cisco AnyConnect VPN Agent for Windows 4.6.03049 Bytes Tx : 10572 Bytes Rx : 289 Pkts Tx : 6 Pkts Rx : 0 Pkts Tx Drop : 0 Pkts Rx Drop : 0 SSL-Tunnel: Tunnel ID : 2.2 Assigned IP : 192.168.10.50 Public IP : 198.51.100.2 Encryption : AES-GCM-256 Hashing : SHA384 Ciphersuite : ECDHE-RSA-AES256-GCM-SHA384 Encapsulation: TLSv1.2 TCP Src Port : 54634 TCP Dst Port : 443 Auth Mode : userPassword 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 4.6.03049 Bytes Tx : 7886 Bytes Rx : 2519 Pkts Tx : 6 Pkts Rx : 24 Pkts Tx Drop : 0 Pkts Rx Drop : 0 DTLS-Tunnel: Tunnel ID : 2.3 Assigned IP : 192.168.10.50 Public IP : 198.51.100.2 Encryption : AES256 Hashing : SHA1 Ciphersuite : DHE-RSA-AES256-SHA Encapsulation: DTLSv1.0 UDP Src Port : 61113 UDP Dst Port : 443 Auth Mode : userPassword 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 4.6.03049 Bytes Tx : 0 Bytes Rx : 2703216 Pkts Tx : 0 Pkts Rx : 50775 Pkts Tx Drop : 0 Pkts Rx Drop : 0 Uma vez que você vai no PC de Windows 7 e clica a "disconexão" no cliente de Cisco

AnyConnect, você obterá:

> show vpn-sessiondb detail anyconnect

INFO: There are presently no active sessions

Captações

Como uma captação de trabalho olha como na interface externa quando você bater conecta no cliente de AnyConnect

Exemplo:

O IP do público do utilizador final será o IP do público de seu roteador em casa por exemplo

ciscofp3# capture capin interface outside trace detail trace-count 100 match ip any host
<enduser'sPublicIPAddress>

<now hit Connect on AnyConnect Client from employee PC>

ciscofp3# **show cap**

capture capin type raw-data trace detail trace-count 100 interface outside [Buffer Full - 524153 bytes]

match ip any host 198.51.100.2

Veja os pacotes que vieram à interface externa do FTD do PC do utilizador final se certificar que chegam em nossa relação exterior FTD:

ciscofp3# capture capin interface outside trace detail trace-count 100 match ip any host
<enduser'sPublicIPAddress>

<now hit Connect on AnyConnect Client from employee PC>

ciscofp3# **show cap**

capture capin type raw-data trace detail trace-count 100 interface outside [Buffer Full - 524153 bytes]

match ip any host 198.51.100.2

Veja os detalhes do que acontece a esse pacote que vem dentro do utilizador final dentro do Firewall

ciscofp3# show cap capin packet-number 1 trace detail 2943 packets captured

1: 17:05:56.580994 006b.fle7.6c5e 000c.294f.ac84 0x0800 Length: 66 198.51.100.2.55928 > 203.0.113.2.443: S [tcp sum ok] 2933933902:2933933902(0) win 8192 <mss 1460,nop,wscale 8,nop,nop,sackOK> (DF) (ttl 127, id 31008)

Phase: 1
Type: CAPTURE
Subtype:
Result: ALLOW
Config:
Additional Information:
Forward Flow based lookup yields rule:
in id=0x2ace13beec90, priority=13, domain=capture, deny=false
hits=2737, user_data=0x2ace1232af40, cs_id=0x0, l3_type=0x0
src mac=0000.0000.0000, mask=0000.0000.0000
dst mac=0000.0000.0000, mask=0000.0000
input_ifc=outside, output_ifc=any

Phase: 2 Type: ACCESS-LIST Subtype: Result: ALLOW Config: Implicit Rule

Additional Information: Forward Flow based lookup yields rule: in id=0x2ace107c8480, priority=1, domain=permit, deny=false hits=183698, user_data=0x0, cs_id=0x0, 13_type=0x8 src mac=0000.0000.0000, mask=0000.0000.0000 dst mac=0000.0000.0000, mask=0100.0000.0000 input_ifc=outside, output_ifc=any Phase: 3 Type: ROUTE-LOOKUP Subtype: Resolve Egress Interface Result: ALLOW Config: Additional Information: found next-hop 203.0.113.2 using egress ifc identity Phase: 4 Type: ACCESS-LIST Subtype: Result: ALLOW Config: Implicit Rule Additional Information: Forward Flow based lookup yields rule: in id=0x2ace1199f680, priority=119, domain=permit, deny=false hits=68, user_data=0x0, cs_id=0x0, flags=0x0, protocol=6 src ip/id=0.0.0.0, mask=0.0.0.0, port=0, tag=any dst ip/id=0.0.0.0, mask=0.0.0.0, port=443, tag=any, dscp=0x0 input_ifc=outside, output_ifc=identity Phase: 5 Type: CONN-SETTINGS Subtype: Result: ALLOW Config: Additional Information: Forward Flow based lookup yields rule: in id=0x2ace1199efd0, priority=8, domain=conn-set, deny=false hits=68, user_data=0x2ace1199e5d0, cs_id=0x0, reverse, flags=0x0, protocol=6 src ip/id=0.0.0.0, mask=0.0.0.0, port=0, tag=any dst ip/id=0.0.0.0, mask=0.0.0.0, port=443, tag=any, dscp=0x0 input_ifc=outside, output_ifc=identity Phase: 6 Type: NAT Subtype: per-session Result: ALLOW Config: Additional Information: Forward Flow based lookup yields rule: in id=0x2ace0fa81330, priority=0, domain=nat-per-session, deny=false hits=178978, user_data=0x0, cs_id=0x0, reverse, use_real_addr, flags=0x0, protocol=6 src ip/id=0.0.0.0, mask=0.0.0.0, port=0, tag=any dst ip/id=0.0.0.0, mask=0.0.0.0, port=0, tag=any, dscp=0x0 input_ifc=any, output_ifc=any Phase: 7 Type: IP-OPTIONS Subtype: Result: ALLOW Config: Additional Information: Forward Flow based lookup yields rule: in id=0x2ace107cdb00, priority=0, domain=inspect-ip-options, deny=true

hits=174376, user_data=0x0, cs_id=0x0, reverse, flags=0x0, protocol=0 src ip/id=0.0.0.0, mask=0.0.0.0, port=0, tag=any dst ip/id=0.0.0.0, mask=0.0.0.0, port=0, tag=any, dscp=0x0 input_ifc=outside, output_ifc=any Phase: 8 Type: CLUSTER-REDIRECT Subtype: cluster-redirect Result: ALLOW Config: Additional Information: Forward Flow based lookup yields rule: in id=0x2ace107c90c0, priority=208, domain=cluster-redirect, deny=false hits=78, user_data=0x0, cs_id=0x0, flags=0x0, protocol=0 src ip/id=0.0.0.0, mask=0.0.0.0, port=0, tag=any dst ip/id=0.0.0.0, mask=0.0.0.0, port=0, tag=any, dscp=0x0 input_ifc=outside, output_ifc=identity Phase: 9 Type: TCP-MODULE Subtype: webvpn Result: ALLOW Config: Additional Information: Forward Flow based lookup yields rule: in id=0x2ace1199df20, priority=13, domain=soft-np-tcp-module, deny=false hits=58, user_data=0x2ace061efb00, cs_id=0x0, reverse, flags=0x0, protocol=6 src ip/id=0.0.0.0, mask=0.0.0.0, port=0, tag=any dst ip/id=0.0.0.0, mask=0.0.0.0, port=443, tag=any, dscp=0x0 input_ifc=outside, output_ifc=identity Phase: 10 Type: VPN Subtype: ipsec-tunnel-flow Result: ALLOW Config: Additional Information: Forward Flow based lookup yields rule: in id=0x2ace11d455e0, priority=13, domain=ipsec-tunnel-flow, deny=true hits=87214, user_data=0x0, cs_id=0x0, flags=0x0, protocol=0 src ip/id=0.0.0.0, mask=0.0.0.0, port=0, tag=any dst ip/id=0.0.0.0, mask=0.0.0.0, port=0, tag=any, dscp=0x0 input_ifc=outside, output_ifc=any Phase: 11 Type: CAPTURE Subtype: Result: ALLOW Config: Additional Information: Forward Flow based lookup yields rule: in id=0x2ace11da7000, priority=13, domain=capture, deny=false hits=635, user_data=0x2ace1232af40, cs_id=0x2ace11f21620, reverse, flags=0x0, protocol=0 src ip/id=198.51.100.2, mask=255.255.255.255, port=0, tag=any dst ip/id=0.0.0.0, mask=0.0.0.0, port=0, tag=any, dscp=0x0 input_ifc=outside, output_ifc=any Phase: 12 Type: CAPTURE Subtype: Result: ALLOW Config: Additional Information:

Reverse Flow based lookup yields rule:

out id=0x2ace10691780, priority=13, domain=capture, deny=false hits=9, user_data=0x2ace1232af40, cs_id=0x2ace11f21620, reverse, flags=0x0, protocol=0 src ip/id=0.0.0.0, mask=0.0.0.0, port=0, tag=any dst ip/id=198.51.100.2, mask=255.255.255.255, port=0, tag=any, dscp=0x0 input_ifc=any, output_ifc=outside Phase: 13 Type: FLOW-CREATION Subtype: Result: ALLOW Config: Additional Information: New flow created with id 87237, packet dispatched to next module Module information for forward flow ... snp_fp_inspect_ip_options snp_fp_tcp_normalizer snp_fp_tcp_mod snp_fp_adjacency snp_fp_fragment snp_fp_drop Module information for reverse flow ... snp_fp_inspect_ip_options snp_fp_tcp_normalizer snp_fp_adjacency snp_fp_fragment snp_ifc_stat Result: input-interface: outside input-status: up input-line-status: up output-interface: NP Identity Ifc Action: allow 1 packet shown ciscofp3# Copie a captação ao disco 0: de seu FTD. Você pode então transferi-lo através do SCP, do FTP, ou do TFTP

(ou da Web de centro de gerenciamento de FirePOWER UI >> sistema >> saúde >> Troubleshooting avançado do monitor de funcionamento >> do clique >> aba do arquivo da transferência do clique)

ciscofp3# copy /pcap capture:capin disk0:/capin.pcap Source capture name [capin]? <hit Enter> Destination filename [capin.pcap]? <hit Enter> !!!!!!!!!!!!! 207 packets copied in 0.0 secs ciscofp3# dir Directory of disk0:/ 122 -rwx 198 05:13:44 Apr 01 2018 lina_phase1.log 49 drwx 4096 21:42:20 Jun 30 2018 log 53 drwx 4096 21:42:36 Jun 30 2018 coredumpinfo 110 drwx 4096 14:59:51 Oct 10 2018 csm 123 -rwx 21074 01:26:44 Oct 10 2018 backup-config.cfg 124 -rwx 21074 01:26:44 Oct 10 2018 startup-config 125 -rwx 20354 01:26:44 Oct 10 2018 modified-config.cfg 160 -rwx 60124 17:06:22 Oct 10 2018 capin.pcap

ciscofp3# copy disk0:/capin.pcap tftp:/

Source filename [capin.pcap]? <hit Enter>
Address or name of remote host []? 192.168.1.25 (your TFTP server IP address (your PC if using
tftpd32 or Solarwinds TFTP Server))
Destination filename [capin.pcap]? <hit Enter>
113645 bytes copied in 21.800 secs (5411 bytes/sec)
ciscofp3#

(or from FirePOWER Management Center Web GUI >> System >> Health >> Health Monitor >> click Advanced Troubleshooting >> click Download File tab)

Verifique que regra NAT está configurado corretamente:

ciscofp3# packet-tracer input outside tcp 192.168.10.50 1234 192.168.1.30 443 detailed

Phase: 1 Type: CAPTURE Subtype: Result: ALLOW Config: Additional Information: Forward Flow based lookup yields rule: in id=0x2ace0fa90e70, priority=13, domain=capture, deny=false hits=11145169, user_data=0x2ace120c4910, cs_id=0x0, 13_type=0x0 src mac=0000.0000.0000, mask=0000.0000.0000 dst mac=0000.0000.0000, mask=0000.0000.0000 input_ifc=outside, output_ifc=any Phase: 2 Type: ACCESS-LIST Subtype: Result: ALLOW Config: Implicit Rule Additional Information: Forward Flow based lookup yields rule: in id=0x2ace107c8480, priority=1, domain=permit, deny=false hits=6866095, user_data=0x0, cs_id=0x0, 13_type=0x8 src mac=0000.0000.0000, mask=0000.0000.0000 dst mac=0000.0000.0000, mask=0100.0000.0000 input_ifc=outside, output_ifc=any Phase: 3 Type: ROUTE-LOOKUP Subtype: Resolve Egress Interface Result: ALLOW Config: Additional Information: found next-hop 192.168.1.30 using egress ifc inside Phase: 4 Type: UN-NAT Subtype: static Result: ALLOW Config: nat (inside, outside) source static inside-subnet inside-subnet destination static outsidesubnet-anyconnect-po ol outside-subnet-anyconnect-pool no-proxy-arp route-lookup Additional Information: NAT divert to egress interface inside Untranslate 192.168.1.30/443 to 192.168.1.30/443

Phase: 5 Type: ACCESS-LIST

```
Subtype: log
Result: ALLOW
Config:
access-group CSM_FW_ACL_ global
access-list CSM_FW_ACL_ advanced trust ip ifc outside any any rule-id 268436481 event-log flow-
end
access-list CSM_FW_ACL_ remark rule-id 268436481: PREFILTER POLICY:
Example_Company_Prefilter_Policy
access-list CSM_FW_ACL_ remark rule-id 268436481: RULE: AllowtoVPNOutsideinterface
Additional Information:
Forward Flow based lookup yields rule:
in id=0x2ace0fa8f4e0, priority=12, domain=permit, trust
hits=318637, user_data=0x2ace057b9a80, cs_id=0x0, use_real_addr, flags=0x0, protocol=0
src ip/id=0.0.0.0, mask=0.0.0.0, port=0, tag=any, ifc=outside
dst ip/id=0.0.0.0, mask=0.0.0.0, port=0, tag=any, ifc=any, vlan=0, dscp=0x0
input_ifc=any, output_ifc=any
. . .
Phase: 7
Type: NAT
Subtype:
Result: ALLOW
Config:
nat (inside, outside) source static inside-subnet inside-subnet destination static outside-
subnet-anyconnect-po ol outside-subnet-anyconnect-pool no-proxy-arp route-lookup
Additional Information:
Static translate 192.168.10.50/1234 to 192.168.10.50/1234
Forward Flow based lookup yields rule:
in id=0x2ace11975cb0, priority=6, domain=nat, deny=false
hits=120, user_data=0x2ace0f29c4a0, cs_id=0x0, flags=0x0, protocol=0
src ip/id=192.168.10.0, mask=255.255.255.0, port=0, tag=any
dst ip/id=10.201.214.128, mask=255.255.255.240, port=0, tag=any, dscp=0x0
input_ifc=outside, output_ifc=inside
. . .
Phase: 10 Type: VPN Subtype: ipsec-tunnel-flow Result: ALLOW Config: Additional Information:
Forward Flow based lookup yields rule: in id=0x2ace11d455e0, priority=13, domain=ipsec-tunnel-
flow, deny=true hits=3276174, user_data=0x0, cs_id=0x0, flags=0x0, protocol=0 src ip/id=0.0.0.0,
mask=0.0.0.0, port=0, tag=any dst ip/id=0.0.0.0, mask=0.0.0.0, port=0, tag=any, dscp=0x0
input_ifc=outside, output_ifc=any Phase: 11 Type: NAT Subtype: rpf-check Result: ALLOW Config:
nat (inside,outside) source static inside-subnet inside-subnet destination static outside-
subnet-anyconnect-po ol outside-subnet-anyconnect-pool no-proxy-arp route-lookup
Additional Information:
Forward Flow based lookup yields rule:
out id=0x2ace0d5a9800, priority=6, domain=nat-reverse, deny=false
hits=121, user_data=0x2ace1232a4c0, cs_id=0x0, use_real_addr, flags=0x0, protocol=0
src ip/id=192.168.10.0, mask=255.255.255.0, port=0, tag=any
dst ip/id=10.201.214.128, mask=255.255.255.240, port=0, tag=any, dscp=0x0
input_ifc=outside, output_ifc=inside
. . .
Phase: 14
Type: FLOW-CREATION
Subtype:
Result: ALLOW
Config:
Additional Information:
New flow created with id 3279248, packet dispatched to next module
Module information for reverse flow ...
. . .
```

Phase: 15 Type: ROUTE-LOOKUP Subtype: Resolve Egress Interface Result: ALLOW Config: Additional Information: found next-hop **192.168.1.30** using egress ifc inside

Result: input-interface: **outside** input-status: up input-line-status: up output-interface: **inside** output-status: up output-line-status: up Action: allow

ciscofp3#

Capture tomado no PC do empregado do PC que conecta com sucesso ao FTD através de AnyConnect VPN

	anyconi	nectinitiation.pcap	ng					
File	e Edit	View Go Ca	apture Analyze	Statistics Telephon	y Wireless Tools	Help		
		💿 📘 🛅 🗙	। 🖸 । ९ 👄 🖬	> 😫 T 🕹 📃 🛛	🔍 ପ୍ ସ୍ 🎹			
	ip.addr =							
No.		Time	Source	Src port	Destination	Dst port	Protocol	Length Info
	129	3.685253		56501		443	тср	66 56501 → 443 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1
	130	3.685868		443		56501	TCP	60 443 → 56501 [SYN, ACK] Seq=0 Ack=1 Win=32768 Len=0 MSS=1460
	131	3.685917		56501		443	TCP	54 56501 → 443 [ACK] Seq=1 Ack=1 Win=64240 Len=0
	132	3.687035		56501		443	TLSv1.2	187 Client Hello
	133	3.687442		443		56501	TCP	60 443 → 56501 [ACK] Seq=1 Ack=134 Win=32768 Len=0
	134	3.687806		443		56501	TLSv1.2	1514 Server Hello
	142	3.899719		56501		443	TCP	54 56501 → 443 [ACK] Seq=134 Ack=1461 Win=64240 Len=0
	143	3.900303		443		56501	TLSv1.2	1159 Certificate, Server Hello Done
	144	3.901003		56501		443	TLSv1.2	412 Client Key Exchange, Change Cipher Spec, Encrypted Handshake Message
	145	3.904245		443		56501	TLSv1.2	145 Change Cipher Spec, Encrypted Handshake Message
	146	3.907281		56501		443	TLSv1.2	363 Application Data
	147	3.907374		56501		443	TLSv1.2	875 Application Data
	148	3.907797		443		56501	TCP	60 443 → 56501 [ACK] Seq=2657 Ack=801 Win=32768 Len=0
	149	3.907868		443		56501	TCP	60 443 → 56501 [ACK] Seq=2657 Ack=1622 Win=32768 Len=0
	150	3.909600		443		56501	TLSv1.2	363 Application Data
	151	3.909759	-	443		56501	TLSv1.2	811 Application Data
\mathbf{v}	Transm	ission Control	Protocol, Sr	c Port: 56501. Ds:	t Port: 443. Sea:	0. Len: 0		

Transmission Control Protocol, Src Port: 55501, Ust Port: 443, Seq: 0, Len: 0 Source Port: 56501

Destination Port: 443

Você pode igualmente ver o túnel DTL formar mais tarde nesta mesma captação

Src port Destination 443 443 443 443 56280 55280 55280 55280 55280 55280 55280 55280 55944 443 55944 55944 55944 55944 55944 55944	Dst port Protocol 55280 TCP 56280 TLSV1.2 56280 TLSV1.2 443 TCP 443 TCP 443 TCP 443 TLS 1.0 58280 TLSV1.2 58280 TLS 1.0 (OpenSSL pre 0.9.8f) 58280 TCP 443 TLS 1.0 58280 TCP 58394 DTLS 1.0 00penSSL pre 0.9.8f) 58944 DTLS 1.0 00penSSL pre 0.9.8f)	Length Info 1514 443 + 56280 [PSH, ACK] Seq=9286 Ack=1215 Win=32768 Len=1460 [TCP segment of a reassembled PD 176 Application Data 158 Application Data 54 56280 + 443 [ACK] Seq=1215 Ack=10746 Win=64240 Len=0 54 56280 + 443 [ACK] Seq=1215 Ack=10972 Win=64014 Len=0 141 Client Hello 90 Hello Verify Request 1111 Application Data 54 443 + 56280 [ACK] Seq=10972 Ack=2272 Win=32768 Len=0 161 Client Hello
Src port Destination 443 443 443 56280 55280 56280 55944 443 56280 443 56280 56280 56280 56280 56280 56280 58944 443 58944 58944 58944 58944	Ottport Protocol 56280 TCP 56280 TLSV1.2 56281 TLSV1.2 443 TCP 58944 DTLS 1.0 (OpenSSL pre 0.9.8f) 58280 TCP 443 TLS 1.0 58944 DTLS 1.0 00000052 pre 0.9.8f) 58944 DTLS 1.0 0000052 pre 0.9.8f)	Length Info 1514 443 → 56280 [PSH, ACK] Seq=9286 Ack=1215 Win=32768 Len=1460 [TCP segment of a reassembled PD 176 Application Data 185 Application Data 54 56280 + 443 [ACK] Seq=1215 Ack=10746 Win=64240 Len=0 54 56280 + 443 [ACK] Seq=1215 Ack=10972 Win=64014 Len=0 141 Client Hello 90 Hello Verify Request 1111 Application Data 54 443 → 56280 [ACK] Seq=10972 Ack=2272 Win=32768 Len=0 161 Client Hello
Src port Destination 443 443 443 56280 55280 55280 55944 443 443 56280 443 56280 543 56280 55944 443 58944 58944 58944 58944	Dot port Protocol 56280 TCP 56280 TLSV1.2 56280 TLSV1.2 443 TCP 443 TCP 443 TCP 443 TCP 443 TCP 443 TLS 1.0 0penSSL pre 9.861 158/44 TLS 1.0 0penSSL pre 9.871 58944 DTLS 1.0 0054 DEC 4.0 0054 DEC 4.0	Length Info 1514 443 → 56280 [PSH, ACK] Seq=9286 Ack=1215 Win=32768 Len=1460 [TCP segment of a reassembled PD 176 Application Data 186 Application Data 54 56280 + 443 [ACK] Seq=1215 Ack=10746 Win=64240 Len=0 54 56280 + 443 [ACK] Seq=1215 Ack=10972 Win=64014 Len=0 141 Client Hello 90 Hello Verify Request 1111 Application Data 54 443 + 56280 [ACK] Seq=10972 Ack=2272 Win=32768 Len=0 161 Client Hello
443 443 56280 55280 58944 443 56944 443 58944 443 58944	56280 TCP 56280 TLSV.2 443 TCP 443 TCP 443 TCP 443 TCP 58944 DTLS 1.0 (OpenSSL pre 0.9.8f) 443 TLSV.2 56280 TCP 443 TLSV.2 56280 TCP 443 DTLS 1.0 (OpenSSL pre 0.9.8f) 58944 DTLS 1.0 (OpenSSL pre 0.9.8f)	1514 443 + 56280 [PSH, ACK] Seq=9286 Ack=1215 Win=32768 Len=1460 [TCP segment of a reassembled PD 176 Application Data 54 56280 + 443 [ACK] Seq=1215 Ack=10746 Win=64240 Len=0 54 56280 + 443 [ACK] Seq=1215 Ack=10972 Win=64014 Len=0 144 Client Hello 96 Hello Verify Request 1111 Application Data 54 443 + 56280 [ACK] Seq=10972 Ack=2272 Win=32768 Len=0 161 Client Hello
443 443 56280 56280 443 55280 443 58944 443 58944 58944	56280 TLSv1.2 56280 TLSv1.2 443 TCP 443 TCP 443 TCP 443 TLS 1.0 (OpenSSL pre 0.9.8f) 58944 DTLS 1.0 (OpenSSL pre 0.9.8f) 443 TLSv1.2 56280 TCP 443 DTLS 1.0 (OpenSSL pre 0.9.8f) 58944 DTLS 1.0 (OpenSSL pre 0.9.8f)	176 Application Data 158 Application Data 54 56280 + 443 [ACK] Seq=1215 Ack=10746 Win=64240 Len=0 54 56280 + 443 [ACK] Seq=1215 Ack=10972 Win=64014 Len=0 141 Client Hello 90 Hello Verify Request 1111 Application Data 54 443 + 56280 [ACK] Seq=10972 Ack=2272 Win=32768 Len=0 161 Client Hello
443 56280 55280 443 56280 443 58944 443 58944 58944	56280 TLSv1.2 443 TCP 443 TCP 443 TCI 443 DTLS 1.0 (OpenSSL pre 0.9.8f) 58944 DTLS 1.0 (OpenSSL pre 0.9.8f) 443 TLSv1.2 56280 TCP 443 DTLS 1.0 (OpenSSL pre 0.9.8f) 58944 DTLS 1.0 (OpenSSL pre 0.9.8f)	188 Application Data 54 56280 + 443 [ACK] Seq=1215 Ack=10746 Win=64240 Len=0 54 56280 + 443 [ACK] Seq=1215 Ack=10972 Win=64014 Len=0 141 Client Hello 90 Hello Verify Request 1111 Application Data 54 443 + 56280 [ACK] Seq=10972 Ack=2272 Win=32768 Len=0 161 Client Hello
55280 55280 58944 443 55280 443 58944 443 58944 58944	443 TCP 443 TCP 443 DTL5 1.0 (OpenSSL pre 0.9.8f) 58944 DTL5 1.0 (OpenSSL pre 0.9.8f) 443 TLSv1.2 56280 TCP 443 DTL5 1.0 (OpenSSL pre 0.9.8f) 58944 DTL5 1.0 (OpenSSL pre 0.9.8f)	54 56280 + 443 [ACK] Seq=1215 Ack=18746 Win=64240 Len=0 54 56280 + 443 [ACK] Seq=1215 Ack=18972 Win=64014 Len=0 141 Client Hello 90 Hello Verify Request 1111 Application Data 54 443 + 56280 [ACK] Seq=18972 Ack=2272 Win=32768 Len=0 161 Client Hello
56280 5944 443 56280 443 58944 443 58944 58944	443 TCP 443 TCP 443 DTL5 1.0 (OpenSSL pre 0.9.8f) 58944 DTL5 1.0 (OpenSSL pre 0.9.8f) 443 TLSv1.2 56280 TCP 443 DTL5 1.0 (OpenSSL pre 0.9.8f) 58944 DTL5 1.0 (OpenSSL pre 0.9.8f)	54 56280 + 443 [AcK] Seq=1215 Ack=10972 Win=64014 Len=0 141 Client Hello 90 Hello Verify Request 1111 Application Data 54 443 + 56280 [ACK] Seq=10972 Ack=2272 Win=32768 Len=0 161 Client Hello
58944 443 56280 443 58944 443 58944 58944	443 DTLS 1.0 (OpenSSL pre 0.9.8f) 58944 DTLS 1.0 (OpenSSL pre 0.9.8f) 443 TLSv1.2 56280 TCP 443 DTLS 1.0 (OpenSSL pre 0.9.8f) 58944 DTLS 1.0 (OpenSSL pre 0.9.8f) 58944 DTLS 1.0 (OpenSSL pre 0.9.8f)	141 Client Hello 99 Hello Verify Request 1111 Application Data 54 443 → 56280 [AcK] Seq=10972 Ack=2272 Win=32768 Len=0 161 Client Hello
443 56280 443 58944 443 58944 58944	58944 DTLS 1.0 (OpenSSL pre 0.9.8f) 443 TLSv1.2 56280 TCP 443 DTLS 1.0 (OpenSSL pre 0.9.8f) 58944 DTLS 1.0 (OpenSSL pre 0.9.8f)	90 Hello Verify Request 1111 Application Data 54 443 + 56280 {ACK] Seq=10972 Ack=2272 Win=32768 Len=0 161 Client Hello
56280 443 58944 443 58944 58944	443 TLSv1.2 56280 TCP 443 DTLS 1.0 (OpenSSL pre 0.9.8f) 58944 DTLS 1.0 (OpenSSL pre 0.9.8f)	1111 Application Data 54 443 → 56280 [ACK] Seq=10972 Ack=2272 Win=32768 Len=0 161 Client Hello
443 58944 443 58944 58944	56280 TCP 443 DTLS 1.0 (OpenSSL pre 0.9.8f) 58944 DTLS 1.0 (OpenSSL pre 0.9.8f)	54 443 → 56280 [ACK] Seq=10972 Ack=2272 Win=32768 Len=0 161 Client Hello
58944 443 58944 58944	443 DTLS 1.0 (OpenSSL pre 0.9.8f) 58944 DTLS 1.0 (OpenSSL pre 0.9.8f)	161 Client Hello
443 58944 58944	58944 DTLS 1.0 (OpenSSL pre 0.9.8f)	
58944 58944	442 DTLC 1 0 (00000001 000 0 0 00)	230 Server Hello, Change Cipher Spec, Encrypted Handshake Message
58944	445 DILS 1.0 (OpenSSL pre 0.9.87)	135 Change Cipher Spec, Encrypted Handshake Message
	443 DTLS 1.0 (OpenSSL pre 0.9.8f)	135 Application Data
58944	443 DTLS 1.0 (OpenSSL pre 0.9.8f)	135 Application Data
58944	443 DTLS 1.0 (OpenSSL pre 0.9.8f)	263 Application Data
bits), 141 bytes captured (1128 bi	ts)	
00:6b:f1:e7:6c:5e), Dst: Vmware_4f	:ac:84 (00:0c:29:4f:ac:84)	
, Dst:		
58944, Dst Port: 443		
ecord Layer: Handshake Protocol: C	lient Hello	
re 0.9.8f) (0x0100)		
ello		
llo (1)		
1	re 0.9.8f) (0x0100) hllo lo (1)	re 0.9.8f) (0x0100) tilo lo (1)

A captação tomada na interface externa do FTD que mostra o PC de AnyConnect conecta com sucesso ao VPN

🦲 G	apin.pca	ар							
File	Edit	View	Go	Capture	Analyze	Statistics	Telephony	Wireless	Tools
	1	•		🗙 🔁	9 .	1 😫 👔		0,0,0	2.11

	Apply a display	filter <ctrl-></ctrl->						
No	. Time		Source	Src port	Destination	Dst port	Protocol	Length Info
Г	1 12:0	5:56.580994		55928		443	TCP	66 55928 + 443 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1
	3 12:0	5:56 581757		55928	_	20920		54 55928 + 443 [ACK] Segel Ackel Win=52708 Lene0
	4 12:0	5:56.582382		55928		443	TLSv1.2	2 187 Client Hello
	5 12:0	5:56.582458		443		55928	TCP	54 443 → 55928 [ACK] Sea=1 Ack=134 Win=32768 Len=0
	6 12:0	5:56.582733		443		55928	TLSv1.2	2 1514 Server Hello
	7 12:0	5:56.790211		55928		443	TCP	54 55928 -> 443 [ACK] Seg=134 Ack=1461 Win=64240 Len=0
	8 12:0	5:56.790349		443		55928	TLSv1.2	2 1159 Certificate, Server Hello Done
	9 12:0	5:56.791691		55928		443	TLSv1.2	2 412 Client Key Exchange, Change Cipher Spec, Encrypted Handshake Messag
	10 12:0	5:56.794911		443		55928	TLSv1.2	2 145 Change Cipher Spec, Encrypted Handshake Message
	11 12:0	5:56.797077		55928		443	TLSv1.2	2 363 Application Data
	12 12:0	5:56.797169		443		55928	TCP	54 443 → 55928 [ACK] Seq=2657 Ack=801 Win=32768 Len=0
	13 12:0	5:56.797199		55928		443	TLSv1.2	2 875 Application Data
	14 12:0	5:56.797276		443		55928	TCP	54 443 → 55928 [ACK] Seq=2657 Ack=1622 Win=32768 Len=0
	15 12:0	5:56.798634		443		55928	TLSv1.2	2 363 Application Data
	16 12:0	5:56.798786		443	-	55928	3 TLSv1.2	2 811 Application Data
> > >	Ethernet II Internet Pr Transmissic Source P	, Src: Vmwa rotocol Vers on Control P ort: 443	re_4f:ac:84 (00:00 ion 4, Src: rotocol, Src Port:	::29:4f:ac:8 , C : 443, Dst F	4), Dst: Cisco_e7: st: ort: 55928, Seq: 1	6c:5e (00: , Ack: 134	6b:f1:e7: , Len: 14	7:6c:5e) 1460
00	Destinat [Stream [TCP Seg Sequence [Next se Acknowle 0101 > Flags: 0 Window s [Calcula [Window Checksum	ion Port: 59 index: 0] ment Len: 14 quence number dgment number: 1 x018 (PSH, 4 ize value: 1 ted window 2 size scaling: 0x3693 [ur	5928 (relative seque er: 1461 (relati Length: 20 bytes (ACK) 32768 size: 32768] g factor: -2 (no v nverified] ad et et et es es	ence number) iive sequenc ive ack numb (5) vindow scali	e number)] er) ng used)]	11		
00	odo 30 13 0	6 0a 09 92 2	26 89 93 f2 2c 64	01 19 16 0	5 0····&· ··,d·			
00	0e0 6c 6f 6	3 61 6c 31 1	19 30 17 06 0a 09	92 26 89 9	3 local1.08	8		
00	100 12 2C 6	4 01 19 16 0 9 15 06 02 0	09 63 67 68 61 64 55 94 93 13 14 63	66 65 79 3	3 1.0	-		
0	110 6c 65 7	9 33 2d 43 4	4f 52 42 44 43 33	2d 43 41 3	0	CAO	/	
0	120 1e 17 0	d 31 38 31 3	30 31 30 30 32 34	35 30 30 5	a ···18101 002450	30Z		
0	130 <mark>17 0d 3</mark>	2 30 31 30 3	30 39 30 32 34 35	5 30 30 5a 3	0201009 024500	9Z0		
0	140 <mark>81 b3 3</mark>	1 26 30 24 0	06 09 2a 86 48 86	f7 0d 01 0	9 ··1805 ··H··	- ×		
0	150 02 13 1	7 63 6f 72 6	52 65 70 33 2e 63	5 6T 68 61 6	4 ··· f p3.			
0	170 55 04 0	9 33 28 6C 6 6 13 02 55 9	51 55 51 5C 51 60 53 31 66 36 69 66	03 55 04 0	8 11151 .01	1		
0	180 13 02 4	3 41 31 11 3	30 0f 06 03 55 04	07 13 08 5	3 ··CA1·0· ··U···	··s		
0	190 61 6e 2	0 4a 6f 73 6	65 31 0e 30 0c 06	03 55 04 0	a an Josel •0•••L	· • (
0	1a0 13 05 4	3 69 73 63 6	6f 31 Oc 30 Oa 06	03 55 04 0	···Cisco1 ·0····l	J + + U		
0	150 13 03 5	4 41 43 31 2	20 30 1e 06 03 55	04 03 13 1	7 TAC1 0 U.			
0:	Lc0 63 6f 7	2 62 66 70 3	33 2e 63 6f 68 61	64 6c 65 7	9 ()fp3.	-		
0	100 33 2e 6	c 67 63 61 6 d 01 09 01 1	5C 31 1C 30 1a 06 16 0d 74 61 63 40	09 2a 86 4	o 3.10call 0	ise		
0	1f0 6f 2e 6	3 6f 6d 30 8	82 01 22 30 0d 06	09 2a 86 4	8 o.com0·· "0···	• H		
0	200 86 f7 0	d 01 01 01 0	05 00 03 82 01 01	00 30 82 0	1	a		
-	7							

Help

Nota: você pode ver o certificado de servidor de VPN FTD no pacote dos "servidores hello enquanto nós conectamos à interface externa do FTD através do VPN. O PC do empregado confiará este certificado porque o PC do empregado tem o certificado CA raiz nele, e o certificado de servidor de VPN FTD foi assinado por essa mesma CA raiz.

Capture tomado no FTD do FTD que pede o servidor Radius se o username + a senha estão corretos (Cisco o ISE)

<u> </u>	apaaa.pcap							
File	Edit View Go Captu	re Analyze Statistic	cs Telephony	Wireless Tools	; Help			
	🗏 🖉 💽 📙 🖪 🔀 🖸	🕽 🔍 🗢 🗢 😫 👔	5 🕹 📃 🔳	0,0,0,1				
A	pply a display filter <ctrl-></ctrl->							
No.	Time	Source	Src port	Destination	Dstport	Protocol	Length	Info
 >	1 13:05:36.771841		3238		1812	RADIUS		Access-Request id=93
۰-	2 13:05:42.865342	ALC: NO. 111.11	1812		3238	RADIUS	201	Access-Accept id=93
	3 13:05:42.865937		3238		1812	RADIUS	701	Access-Request id=94
L	4 13:05:42.911314		1812		3238	RADIUS	62	Access-Reject id=94
	5 13:05:43.302825		19500		1813	RADIUS	756	Accounting-Request id=95
	6 13:05:43.309294		1813		19500	RADIUS	62	Accounting-Response id=95
<								
) E	name 2: 201 bytes on u	vine (1608 hits)	201 bytes c	antured (1608 k	(i+c)			
S F	thernet II Src: Cisco	a e7.6c.5e (00.6h.	f1.e7.6c.5e) Det: Vmware	Af.ac.84 (00.0	ac.20.4f.ac.	84)	
Г. т.	nternet Protocol Versi	ion 4 Sec.	11.07.00.00	/, 030. viiivare_		JC.25.41.0C.	04)	
5 1	ser Datagram Protocol	Sec Port: 1812	Dst Port: 3	238				
Y R	ADTUS Protocol	, Sterore, 1012,	bac rore. a	250				
	Code: Access-Accept	(2)						
	coder Access Accept	(-)						
0000	0 00 0c 29 4f ac 84 0	0 6b f1 e7 6c 5e	08 00 45 0	0 ···)0····k ··	1^E.			
0010	00 bb 5f 66 40 00 3	f 11 18 bc 0a c9	d6 e6 0a c	9 ··_f@·?· ··				
0020	0 d6 97 07 14 0c a6 0	10 a7 4e 17 02 5d	00 9t 7t b	9 · · · · · · N·	·]····			
0030		2 04 /T 0T 05 54	0/ 59 01 0	s ··em·u·d ··	outhEo	_		
0040	73 73 69 6f 6e 3a 3	0 61 63 39 64 36	38 61 30 3	0 ssion:0a c9	d68a00	_		
0060	0 30 31 61 30 30 30 3	5 62 62 66 39 30	66 30 19 3	b 01a0005b bf	90f0 :			
0070	0 43 41 43 53 3a 30 6	1 63 39 64 36 38	61 30 30 3	0 CACS:0ac 9d	68a000			
0080	31 61 30 30 30 35 6	2 62 66 39 30 66	30 3a 63 6	f 1a0005bb f9	0f0:co			
0090	0 72 62 69 6e 69 73 6	i5 2f 33 32 32 33	34 34 30 3	8 rbinise/ 32	234408			
00a0	0 34 2f 31 39 37 34 3	2 39 39 1a 20 00	00 00 09 0	1 4/197429 9				
00b6	0 1a 70 72 6f 66 69 6	ic 65 2d 6e 61 6d	65 3d 57 6	f profile -n	ame=Wo			
00ce	0 /2 6b 73 74 61 74 6	196† 6e		rkstatio n				

Como você pode ver acima, nossa conexão de VPN obtém uma aceitação de acesso, e nosso cliente VPN de AnyConnect conecta com sucesso ao FTD através do VPN

A captação (CLI) de FTD que pede Cisco ISE se o username + a senha são válidos (isto é certifica-se que as requisições RADIUS estão indo com sucesso entre FTD e ISE e se verifica para fora do que relação é que saem)

ciscofp3# capture capout interface inside trace detail trace-count 100 [Capturing - 35607 bytes] ciscofp3# show cap ciscofp3# show cap capout | i 192.168.1.10 37: 01:23:52.264512 192.168.1.1.3238 > 192.168.1.10.1812: udp 659 38: 01:23:52.310210 192.168.1.10.1812 > 192.168.1.1.3238: udp 159 39: 01:23:52.311064 192.168.1.1.3238 > 192.168.1.10.1812: udp 659 40: 01:23:52.326734 192.168.1.10.1812 > 192.168.1.1.3238: udp 20 82: 01:23:52.737663 192.168.1.1.19500 > 192.168.1.10.1813: udp 714 85: 01:23:52.744483 192.168.1.10.1813 > 192.168.1.1.19500: udp 20 Abaixo do servidor Radius de Cisco ISE mostra essa autenticação bem sucedida Clique a lupa

Abaixo do servidor Radius de Cisco ISE mostra essa autenticação bem sucedida. Clique a lupa para ver os detalhes da autenticação bem sucedida

Oct 11, 2018 06:10:08.808 PM		0	0	jsmith	00.0C:29:37:EF:BF		Workstation	VPN Users >> Default	VPN Users >> Allow FTD VPN connections if AD Group VPNusers	PermitAccess
Oct 11, 2018 06:10:08.808 PM	V	ò		jsmith	00:0C:29:37:EF:BF	FTDVPN	Workstation	VPN Users >> Default	VPN Users >> Allow FTD VPN connections if AD Group VPNusers	PermitAccess

erview	
ivent	5200 Authentication succeeded
Jsername	jsmith
Endpoint Id	00:0C:29:37:EF:BF
Endpoint Profile	Workstation
Authentication Policy	VPN Users >> Default
Authorization Policy	VPN Users >> Allow FTD VPN connections if AD Group VPNusers
Authorization Result	PermitAccess

Capture no adaptador de AnyConnect do PC do empregado do PC do empregado que vai a um Web site interno através de HTTPS (isto é quando for com sucesso VPN'd dentro):

*	Local Area Co	nnectio	n 2														
File	Edit View	Go	Capture	e An	alyze	Statisti	cs Tel	ephony	Wirele	ess To	ols	Help					
	10			Q	A A	s 🖘 7	т л Г	İ	⊕ ∈			•					
		010	<u> </u>		~ ~				~ ~	1				-	_		
tc	p.port == 443													X	<u> </u>	Expressio	n +
No.	Time		Sour	ce			Destin	ation		Pr	otocol	Length	Info				*
Ē	49 1.545	46	192.	168.10	0.50					т	P	66	63576 → 443	[SYN]	Seq=0	Win=8192	2
	50 1.547	22					192.1	68.10.50)	т	P	66	443 → 63576	[SYN,	ACK] S	Seq=0 Acl	C=
22	51 1.547	75	192.	168.10	0.50					т	:P	54	63576 → 443	[ACK]	Seq=1	Ack=1 Wi	ir
	52 1.549	52	192.	168.10	0.50					тι	Sv1.2	240	Client Hello	0			
	53 1.5504	13					192.1	68.10.50)	TL	Sv1.2	900	Server Hello	o, Cert	tificat	te, Serve	er
	54 1.550	09	192.	168.10	0.50					TL	Sv1.2	372	Client Key H	Exchang	ge, Cha	ange Cipł	ne
	58 1.562	66								тι	Sv1.2	105	Change Ciphe	er Spec	, Enci	rypted Ha	ar
	59 1.562	18	192.	168.10	0.50					TL	Sv1.2	469	Application	Data			
	60 1.5954	-05					192.1	68.10.50		тι	Sv1.2	1007	Application	Data			
	61 1.628	38	192.	168.10	0.50					тι	Sv1.2	437	Application	Data			
	64 1.6669	95					192.1	68.10.50		т	P	1420	443 → 63576	[ACK]	Seq=18	851 Ack=1	13
	65 1.667	32					192.1	68.10.50)	т	P	1420	443 → 63576	[ACK]	Seq=32	217 Ack=1	13
	66 1.667	84	192.	168.10	0.50					т	P	54	63576 → 443	[ACK]	Seq=13	303 Ack=4	45
	67 1.6674	23			R.		192.1	68.10.50		т	P	1420	443 → 63576	[ACK]	Seq=49	583 Ack=1	13 7
•						III								- A A			
⊳ FI	ame 49: 66	bytes o	n wire	(528 b	its),	66 byte	s captu	red (528	bits)	on int	erface	0					
Þ E	thernet II,	Src: Ci	sco_3c:	7a:00	(00:05	:9a:3c:	7a:00),	Dst: Ci	msys_33	:44:55	(00:1	1:22:33:	44:55)				
Þ II	ternet Prot	ocol Ve	rsion 4	, Src:	192.1	68.10.5	0, Dst:										
4	ansmission	Control	Protoco	ol, Sr	c Port	: 63576	, Dst P	ort: 443	, Seq:	0, Len	: 0						
	Source Por	t: 6357	6														
	Destinatio	n Port:	443														-
0000	00 11 22 3	3 44 55	00 05	9a 3c	7a 00	08 00	45 00	·· "3DU ·	• • <z•< td=""><td>- E -</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></z•<>	- E -							
0010	00 34 25 4	4 40 00	80 06	29 59	c0 a8	0a 32	0a c9	-4%D@	·)Y…	2							
0020	d6 83 f8 9	8 01 bb	21 bb	a9 32	00 00	00 00	80 02	····X···!	· ·2···								
0030	20 00 de 4	5 00 00	02 04	05 56	01 03	03 08	01 01	··E···	· ·v··	10.0							
0040	04 02																
0	🏹 Transmis	sion Con	trol Proto	col (tcp	o), 32 b	ytes			Pa	ckets: 26	50 · Disp	played: 12	5 (48.1%) · Dro	opped:	0 (0.0%	6) Profi	e: Default

Debugs

debugar o raio todo

Seja executado "debugam o raio todo o" comando em FTD CLI diagnóstico (apoio diagnóstico-CLI do >system) e batem o " conectar " no PC de Windows/Mac no cliente de Cisco Anyconnect

> system support diagnostic-cli Attaching to Diagnostic CLI ... Press 'Ctrl+a then d' to detach. ciscofp3> enable Password: <hit enter> ciscofp3# terminal monitor ciscofp3# debug radius all <hit Connect on Anyconnect client on PC>

radius mkreq: 0x15 alloc_rip 0x00002ace10875428 new request 0x15 --> 16 (0x00002ace10875428) got user 'jsmith' got password add_req 0x00002ace10875428 session 0x15 id 16 RADIUS_REQUEST radius.c: rad_mkpkt rad_mkpkt: ip:source-ip=198.51.100.2

RADIUS packet decode (authentication request)

30 31 2e 32 31 34 2e 32 35 31 1a 18 00 00 0c 04 | 68.10.50..... 92 12 46 54 44 41 6e 79 43 6f 6e 6e 65 63 74 56 | ..FTDAnyConnectV 50 4e 1a 0c 00 00 0c 04 96 06 00 00 00 02 1a 15 | PN..... 00 00 09 01 0f 63 6f 61 2d 70 75 73 68 3d 74 |coa-push=t 72 75 65 | rue Parsed packet data.... Radius: Code = 1 (0x01)Radius: Identifier = 16 (0x10) Radius: Length = 659 (0x0293)Radius: Vector: FB1919DFF6B1C73E34FC88CE75382D55 Radius: Type = 1 (0x01) User-Name Radius: Length = 8 (0x08)Radius: Value (String) = 6a 73 6d 69 74 68 | jsmith Radius: Type = 2 (0x02) User-Password Radius: Length = 18 (0x12)Radius: Value (String) = a0 83 c9 bd ad 72 07 d1 bc 24 34 9e 63 a1 f5 93 |r...\$4.c... Radius: Type = 5 (0x05) NAS-Port Radius: Length = 6 (0x06)Radius: Value (Hex) = 0x5000Radius: Type = 30 (0x1E) Called-Station-Id Radius: Length = 16 (0x10)Radius: Value (String) = 31 30 2e 32 30 31 2e 32 31 34 2e 31 35 31 | 203.0.113.2 Radius: Type = 31 (0x1F) Calling-Station-Id Radius: Length = 16 (0x10)Radius: Value (String) = 31 30 2e 32 30 31 2e 32 31 34 2e 32 35 31 | 198.51.100.2 Radius: Type = 61 (0x3D) NAS-Port-Type Radius: Length = 6 (0x06)Radius: Value (Hex) = 0x5Radius: Type = 66 (0x42) Tunnel-Client-Endpoint Radius: Length = 16 (0x10)Radius: Value (String) = 31 30 2e 32 30 31 2e 32 31 34 2e 32 35 31 | 198.51.100.2 Radius: Type = 26 (0x1A) Vendor-Specific Radius: Length = 35 (0x23)Radius: Vendor ID = 9 (0x0000009) Radius: Type = 1 (0x01) Cisco-AV-pair Radius: Length = 29 (0x1D) Radius: Value (String) = 6d 64 6d 2d 74 6c 76 3d 64 65 76 69 63 65 2d 70 | mdm-tlv=device-p 6c 61 74 66 6f 72 6d 3d 77 69 6e | latform=win Radius: Type = 26 (0x1A) Vendor-Specific Radius: Length = 44 (0x2C) Radius: Vendor ID = 9 (0x0000009)Radius: Type = 1 (0x01) Cisco-AV-pair Radius: Length = 38 (0x26)Radius: Value (String) = 6d 64 6d 2d 74 6c 76 3d 64 65 76 69 63 65 2d 6d | mdm-tlv=device-m 61 63 3d 30 30 2d 30 63 2d 32 39 2d 33 37 2d 65 | ac=00-0c-29-37-e 66 2d 62 66 | f-bf Radius: Type = 26 (0x1A) Vendor-Specific Radius: Length = 51 (0x33)Radius: Vendor ID = 9 (0x0000009) Radius: Type = 1 (0x01) Cisco-AV-pair Radius: Length = 45 (0x2D)Radius: Value (String) = 6d 64 6d 2d 74 6c 76 3d 64 65 76 69 63 65 2d 70 | mdm-tlv=device-p 75 62 6c 69 63 2d 6d 61 63 3d 30 30 2d 30 63 2d | ublic-mac=00-0c-32 39 2d 33 37 2d 65 66 2d 62 66 | 29-37-ef-bf Radius: Type = 26 (0x1A) Vendor-Specific

```
Radius: Length = 58 (0x3A)
Radius: Vendor ID = 9 (0 \times 00000009)
Radius: Type = 1 (0x01) Cisco-AV-pair
Radius: Length = 52 (0x34)
Radius: Value (String) =
6d 64 6d 2d 74 6c 76 3d 61 63 2d 75 73 65 72 2d | mdm-tlv=ac-user-
61 67 65 6e 74 3d 41 6e 79 43 6f 6e 6e 65 63 74 | agent=AnyConnect
20 57 69 6e 64 6f 77 73 20 34 2e 36 2e 30 33 30 | Windows 4.6.030
34 39 | 49
Radius: Type = 26 (0x1A) Vendor-Specific
Radius: Length = 63 (0x3F)
Radius: Vendor ID = 9 (0x0000009)
Radius: Type = 1 (0x01) Cisco-AV-pair
Radius: Length = 57 (0x39)
Radius: Value (String) =
6d 64 6d 2d 74 6c 76 3d 64 65 76 69 63 65 2d 70 | mdm-tlv=device-p
6c 61 74 66 6f 72 6d 2d 76 65 72 73 69 6f 6e 3d | latform-version=
36 2e 31 2e 37 36 30 31 20 53 65 72 76 69 63 65 | 6.1.7601 Service
20 50 61 63 6b 20 31 | Pack 1
Radius: Type = 26 (0x1A) Vendor-Specific
Radius: Length = 64 (0x40)
Radius: Vendor ID = 9 (0x0000009)
Radius: Type = 1 (0x01) Cisco-AV-pair
Radius: Length = 58 (0x3A)
Radius: Value (String) =
6d 64 6d 2d 74 6c 76 3d 64 65 76 69 63 65 2d 74 | mdm-tlv=device-t
79 70 65 3d 56 4d 77 61 72 65 2c 20 49 6e 63 2e | ype=VMware, Inc.
20 56 4d 77 61 72 65 20 56 69 72 74 75 61 6c 20 | VMware Virtual
50 6c 61 74 66 6f 72 6d | Platform
Radius: Type = 26 (0x1A) Vendor-Specific
Radius: Length = 91 (0x5B)
Radius: Vendor ID = 9 (0x0000009)
Radius: Type = 1 (0x01) Cisco-AV-pair
Radius: Length = 85 (0x55)
Radius: Value (String) =
6d 64 6d 2d 74 6c 76 3d 64 65 76 69 63 65 2d 75 | mdm-tlv=device-u
69 64 3d 33 36 39 33 43 36 34 30 37 43 39 32 35 | id=3693C6407C925
32 35 31 46 46 37 32 42 36 34 39 33 42 44 44 38 | 251FF72B6493BDD8
37 33 31 38 41 42 46 43 39 30 43 36 32 31 35 34 | 7318ABFC90C62154
32 43 33 38 46 41 46 38 37 38 45 46 34 39 36 31 | 2C38FAF878EF4961
34 41 31 | 4A1
Radius: Type = 4 (0x04) NAS-IP-Address
Radius: Length = 6 (0x06)
Radius: Value (IP Address) = 0.0.0.0 (0x0000000)
Radius: Type = 26 (0x1A) Vendor-Specific
Radius: Length = 49 (0x31)
Radius: Vendor ID = 9 (0x0000009)
Radius: Type = 1 (0x01) Cisco-AV-pair
Radius: Length = 43 (0x2B)
Radius: Value (String) =
61 75 64 69 74 2d 73 65 73 73 69 6f 6e 2d 69 64 | audit-session-id
3d 30 61 63 39 64 36 38 61 30 30 30 30 35 30 30 | =0ac9d68a0000500
30 35 62 62 65 31 66 39 31 | 05bbe1f91
Radius: Type = 26 (0x1A) Vendor-Specific
Radius: Length = 35 (0x23)
Radius: Vendor ID = 9 (0x0000009)
Radius: Type = 1 (0x01) Cisco-AV-pair
Radius: Length = 29 (0x1D)
Radius: Value (String) =
69 70 3a 73 6f 75 72 63 65 2d 69 70 3d 31 30 2e | ip:source-ip=192.
32 30 31 2e 32 31 34 2e 32 35 31 | 168.10.50
Radius: Type = 26 (0x1A) Vendor-Specific
Radius: Length = 24 (0x18)
Radius: Vendor ID = 3076 (0x00000C04)
```

```
Radius: Type = 146 (0x92) Tunnel-Group-Name
Radius: Length = 18 (0x12)
Radius: Value (String) =
46 54 44 41 6e 79 43 6f 6e 6e 65 63 74 56 50 4e | FTDAnyConnectVPN
Radius: Type = 26 (0x1A) Vendor-Specific
Radius: Length = 12 (0x0C)
Radius: Vendor ID = 3076 (0x00000C04)
Radius: Type = 150 (0x96) Client-Type
Radius: Length = 6 (0x06)
Radius: Value (Integer) = 2 (0x0002)
Radius: Type = 26 (0x1A) Vendor-Specific
Radius: Length = 21 (0x15)
Radius: Vendor ID = 9 (0x0000009)
Radius: Type = 1 (0x01) Cisco-AV-pair
Radius: Length = 15 (0x0F)
Radius: Value (String) =
63 6f 61 2d 70 75 73 68 3d 74 72 75 65 | coa-push=true
send pkt 192.168.1.10/1812
rip 0x00002ace10875428 state 7 id 16
rad_vrfy() : response message verified
rip 0x00002ace10875428
: chall_state ''
: state 0x7
: reqauth:
fb 19 19 df f6 b1 c7 3e 34 fc 88 ce 75 38 2d 55
: info 0x00002ace10875568
session_id 0x15
request_id 0x10
user 'jsmith'
response '***'
app 0
reason 0
skey 'cisco123'
sip 192.168.1.10
type 1
RADIUS packet decode (response)
_____
Raw packet data (length = 159).....
02 10 00 9f 39 45 43 cf 05 be df 2f 24 d5 d7 05 | ....9EC..../$...
47 67 b4 fd 01 08 6a 73 6d 69 74 68 18 28 52 65 | Gg...jsmith.(Re
61 75 74 68 53 65 73 73 69 6f 6e 3a 30 61 63 39 | authSession:0ac9
64 36 38 61 30 30 30 30 35 30 30 35 62 62 65 | d68a000050005bbe
31 66 39 31 19 3b 43 41 43 53 3a 30 61 63 39 64 | 1f91.;CACS:0ac9d
36 38 61 30 30 30 30 35 30 30 35 62 62 65 31 | 68a000050005bbe1
66 39 31 3a 63 6f 72 62 69 6e 69 73 65 2f 33 32 | f91:corbinise/32
32 33 34 34 30 38 34 2f 31 39 33 31 36 38 32 1a | 2344084/1931682.
20 00 00 00 09 01 1a 70 72 6f 66 69 6c 65 2d 6e | .....profile-n
61 6d 65 3d 57 6f 72 6b 73 74 61 74 69 6f 6e | ame=Workstation
Parsed packet data....
Radius: Code = 2 (0x02)
Radius: Identifier = 16 (0x10)
Radius: Length = 159 (0 \times 0.09F)
Radius: Vector: 394543CF05BEDF2F24D5D7054767B4FD
Radius: Type = 1 (0x01) User-Name
Radius: Length = 8 (0x08)
Radius: Value (String) =
6a 73 6d 69 74 68 | jsmith
Radius: Type = 24 (0x18) State
Radius: Length = 40 (0x28)
Radius: Value (String) =
52 65 61 75 74 68 53 65 73 73 69 6f 6e 3a 30 61 | ReauthSession:Oa
```

63 39 64 36 38 61 30 30 30 30 35 30 30 35 62 | c9d68a000050005b 62 65 31 66 39 31 | belf91 Radius: Type = 25 (0x19) Class Radius: Length = 59 (0x3B)Radius: Value (String) = 43 41 43 53 3a 30 61 63 39 64 36 38 61 30 30 30 | CACS:0ac9d68a000 30 35 30 30 30 35 62 62 65 31 66 39 31 3a 63 6f | 050005bbe1f91:co 72 62 69 6e 69 73 65 2f 33 32 32 33 34 34 30 38 | rbinise/32234408 34 2f 31 39 33 31 36 38 32 | 4/1931682 Radius: Type = 26 (0x1A) Vendor-Specific Radius: Length = 32 (0x20) Radius: Vendor ID = 9 (0x0000009) Radius: Type = 1 (0x01) Cisco-AV-pair Radius: Length = 26 (0x1A)Radius: Value (String) = 70 72 6f 66 69 6c 65 2d 6e 61 6d 65 3d 57 6f 72 | profile-name=Wor 6b 73 74 61 74 69 6f 6e | kstation rad_procpkt: ACCEPT Got AV-Pair with value profile-name=Workstation RADIUS_ACCESS_ACCEPT: normal termination radius mkreq: 0x16 alloc_rip 0x00002ace10874b80 new request 0x16 --> 17 (0x00002ace10874b80) got user 'jsmith' got password add_req 0x00002ace10874b80 session 0x16 id 17 RADIUS_DELETE remove_req 0x00002ace10875428 session 0x15 id 16 free_rip 0x00002ace10875428 RADIUS_REQUEST radius.c: rad_mkpkt rad_mkpkt: ip:source-ip=198.51.100.2

RADIUS packet decode (authentication request)

Raw packet data (length = 659)

πаι	v pe	icke		laic	1 (J	Lend	JUII	- (, פכנ	•••						
01	11	02	93	сб	fc	11	c1	0e	c4	81	ac	09	a7	85	a8	
83	c1	e4	88	01	08	бa	73	6d	69	74	68	02	12	79	41	jsmithyA
0e	71	13	38	ae	9f	49	be	3c	a9	e4	81	65	93	05	06	.q.8I. <e< td=""></e<>
00	00	50	00	1e	10	31	30	2e	32	30	31	2e	32	31	34	P203.0.113
2e	31	35	31	1f	10	31	30	2e	32	30	31	2e	32	31	34	.2203.0.113
2e	32	35	31	3d	06	00	00	00	05	42	10	31	30	2e	32	.2= <ip addr<="" td=""></ip>
30	31	2e	32	31	34	2e	32	35	31	1a	23	00	00	00	09	ess>.#
01	1d	6d	64	6d	2d	74	бc	76	3d	64	65	76	69	63	65	mdm-tlv=device
2d	70	бc	61	74	66	6f	72	6d	3d	77	69	6e	1a	2c	00	-platform=win.,.
00	00	09	01	26	6d	64	6d	2d	74	6c	76	3d	64	65	76	&mdm-tlv=dev
69	63	65	2d	6d	61	63	3d	30	30	2d	30	63	2d	32	39	ice-mac=00-0c-29
2d	33	37	2d	65	66	2d	62	66	1a	33	00	00	00	09	01	-37-ef-bf.3
2d	6d	64	6d	2d	74	бc	76	3d	64	65	76	69	63	65	2d	-mdm-tlv=device-
70	75	62	бc	69	63	2d	6d	61	63	3d	30	30	2d	30	63	public-mac=00-0c
2d	32	39	2d	33	37	2d	65	66	2d	62	66	1a	3a	00	00	-29-37-ef-bf.:
00	09	01	34	6d	64	6d	2d	74	бc	76	3d	61	63	2d	75	4mdm-tlv=ac-u
73	65	72	2d	61	67	65	6e	74	3d	41	6e	79	43	6f	6e	ser-agent=AnyCon
6e	65	63	74	20	57	69	6e	64	6f	77	73	20	34	2e	36	nect Windows 4.6
2e	30	33	30	34	39	1a	3f	00	00	00	09	01	39	6d	64	.03049.?9md
6d	2d	74	6c	76	3d	64	65	76	69	63	65	2d	70	6c	61	m-tlv=device-pla
74	66	6f	72	6d	2d	76	65	72	73	69	6f	6e	3d	36	2e	tform-version=6.
31	2e	37	36	30	31	20	53	65	72	76	69	63	65	20	50	1.7601 Service P
61	63	6b	20	31	1a	40	00	00	00	09	01	3a	6d	64	6d	ack 1.@:mdm
2d	74	6c	76	3d	64	65	76	69	63	65	2d	74	79	70	65	-tlv=device-type
3d	56	4d	77	61	72	65	2c	20	49	6e	63	2e	20	56	4d	=VMware, Inc. VM
77	61	72	65	20	56	69	72	74	75	61	бc	20	50	бc	61	ware Virtual Pla
74	66	6f	72	6d	1a	5b	00	00	00	09	01	55	6d	64	6d	tform.[Umdm

2d 74 6c 76 3d 64 65 76 69 63 65 2d 75 69 64 3d | -tlv=device-uid= 33 36 39 33 43 36 34 30 37 43 39 32 35 32 35 31 | 3693C6407C925251 46 46 37 32 42 36 34 39 33 42 44 44 38 37 33 31 | FF72B6493BDD8731 38 41 42 46 43 39 30 43 36 32 31 35 34 32 43 33 | 8ABFC90C621542C3 38 46 41 46 38 37 38 45 46 34 39 36 31 34 41 31 | 8FAF878EF49614A1 04 06 00 00 00 1a 31 00 00 09 01 2b 61 75 |1....+au 64 69 74 2d 73 65 73 73 69 6f 6e 2d 69 64 3d 30 | dit-session-id=0 61 63 39 64 36 38 61 30 30 30 35 30 30 30 35] ac9d68a000050005 62 62 65 31 66 39 31 1a 23 00 00 00 09 01 1d 69 | bbe1f91.#....i 70 3a 73 6f 75 72 63 65 2d 69 70 3d 31 30 2e 32 | p:source-ip=192.1 30 31 2e 32 31 34 2e 32 35 31 1a 18 00 00 0c 04 | 68.10.50..... 92 12 46 54 44 41 6e 79 43 6f 6e 6e 65 63 74 56 | ..FTDAnyConnectV 50 4e 1a 0c 00 00 0c 04 96 06 00 00 00 02 1a 15 | PN..... 00 00 09 01 0f 63 6f 61 2d 70 75 73 68 3d 74 |coa-push=t 72 75 65 | rue Parsed packet data.... Radius: Code = 1 (0x01)Radius: Identifier = 17 (0x11)Radius: Length = 659 (0x0293)Radius: Vector: C6FC11C10EC481AC09A785A883C1E488 Radius: Type = 1 (0x01) User-Name Radius: Length = 8 (0x08)Radius: Value (String) = 6a 73 6d 69 74 68 | jsmith Radius: Type = 2 (0x02) User-Password Radius: Length = 18 (0x12)Radius: Value (String) = 79 41 0e 71 13 38 ae 9f 49 be 3c a9 e4 81 65 93 | yA.q.8..I.<...e. Radius: Type = 5 (0x05) NAS-Port Radius: Length = 6 (0x06)Radius: Value (Hex) = 0x5000 Radius: Type = 30 (0x1E) Called-Station-Id Radius: Length = 16 (0x10)Radius: Value (String) = 31 30 2e 32 30 31 2e 32 31 34 2e 31 35 31 | 203.0.113.2 Radius: Type = 31 (0x1F) Calling-Station-Id Radius: Length = 16 (0x10)Radius: Value (String) = 31 30 2e 32 30 31 2e 32 31 34 2e 32 35 31 | 198.51.100.2 Radius: Type = 61 (0x3D) NAS-Port-Type Radius: Length = 6 (0x06)Radius: Value (Hex) = 0x5Radius: Type = 66 (0x42) Tunnel-Client-Endpoint Radius: Length = 16 (0x10)Radius: Value (String) = 31 30 2e 32 30 31 2e 32 31 34 2e 32 35 31 | 198.51.100.2 Radius: Type = 26 (0x1A) Vendor-Specific Radius: Length = 35 (0x23)Radius: Vendor ID = 9 (0x0000009)Radius: Type = 1 (0x01) Cisco-AV-pair Radius: Length = 29 (0x1D)Radius: Value (String) = 6d 64 6d 2d 74 6c 76 3d 64 65 76 69 63 65 2d 70 | mdm-tlv=device-p 6c 61 74 66 6f 72 6d 3d 77 69 6e | latform=win Radius: Type = 26 (0x1A) Vendor-Specific Radius: Length = 44 (0x2C) Radius: Vendor ID = 9 (0x0000009)Radius: Type = 1 (0x01) Cisco-AV-pair Radius: Length = 38 (0x26)Radius: Value (String) = 6d 64 6d 2d 74 6c 76 3d 64 65 76 69 63 65 2d 6d | mdm-tlv=device-m 61 63 3d 30 30 2d 30 63 2d 32 39 2d 33 37 2d 65 | ac=00-0c-29-37-e 66 2d 62 66 | f-bf

```
Radius: Type = 26 (0x1A) Vendor-Specific
Radius: Length = 51 (0x33)
Radius: Vendor ID = 9 (0x0000009)
Radius: Type = 1 (0x01) Cisco-AV-pair
Radius: Length = 45 (0x2D)
Radius: Value (String) =
6d 64 6d 2d 74 6c 76 3d 64 65 76 69 63 65 2d 70 | mdm-tlv=device-p
75 62 6c 69 63 2d 6d 61 63 3d 30 30 2d 30 63 2d | ublic-mac=00-0c-
32 39 2d 33 37 2d 65 66 2d 62 66 | 29-37-ef-bf
Radius: Type = 26 (0x1A) Vendor-Specific
Radius: Length = 58 (0x3A)
Radius: Vendor ID = 9 (0x0000009)
Radius: Type = 1 (0x01) Cisco-AV-pair
Radius: Length = 52 (0x34)
Radius: Value (String) =
6d 64 6d 2d 74 6c 76 3d 61 63 2d 75 73 65 72 2d | mdm-tlv=ac-user-
61 67 65 6e 74 3d 41 6e 79 43 6f 6e 6e 65 63 74 | agent=AnyConnect
20 57 69 6e 64 6f 77 73 20 34 2e 36 2e 30 33 30 | Windows 4.6.030
34 39 49
Radius: Type = 26 (0x1A) Vendor-Specific
Radius: Length = 63 (0x3F)
Radius: Vendor ID = 9 (0x0000009)
Radius: Type = 1 (0x01) Cisco-AV-pair
Radius: Length = 57 (0x39)
Radius: Value (String) =
6d 64 6d 2d 74 6c 76 3d 64 65 76 69 63 65 2d 70 | mdm-tlv=device-p
6c 61 74 66 6f 72 6d 2d 76 65 72 73 69 6f 6e 3d | latform-version=
36 2e 31 2e 37 36 30 31 20 53 65 72 76 69 63 65 | 6.1.7601 Service
20 50 61 63 6b 20 31 | Pack 1
Radius: Type = 26 (0x1A) Vendor-Specific
Radius: Length = 64 (0x40)
Radius: Vendor ID = 9 (0x0000009)
Radius: Type = 1 (0x01) Cisco-AV-pair
Radius: Length = 58 (0x3A)
Radius: Value (String) =
6d 64 6d 2d 74 6c 76 3d 64 65 76 69 63 65 2d 74 | mdm-tlv=device-t
79 70 65 3d 56 4d 77 61 72 65 2c 20 49 6e 63 2e | ype=VMware, Inc.
20 56 4d 77 61 72 65 20 56 69 72 74 75 61 6c 20 | VMware Virtual
50 6c 61 74 66 6f 72 6d | Platform
Radius: Type = 26 (0x1A) Vendor-Specific
Radius: Length = 91 (0x5B)
Radius: Vendor ID = 9 (0x0000009)
Radius: Type = 1 (0x01) Cisco-AV-pair
Radius: Length = 85 (0x55)
Radius: Value (String) =
6d 64 6d 2d 74 6c 76 3d 64 65 76 69 63 65 2d 75 | mdm-tlv=device-u
69 64 3d 33 36 39 33 43 36 34 30 37 43 39 32 35 | id=3693C6407C925
32 35 31 46 46 37 32 42 36 34 39 33 42 44 44 38 | 251FF72B6493BDD8
37 33 31 38 41 42 46 43 39 30 43 36 32 31 35 34 | 7318ABFC90C62154
32 43 33 38 46 41 46 38 37 38 45 46 34 39 36 31 | 2C38FAF878EF4961
34 41 31 | 4A1
Radius: Type = 4 (0x04) NAS-IP-Address
Radius: Length = 6 (0x06)
Radius: Value (IP Address) = 0.0.0.0 (0x0000000)
Radius: Type = 26 (0x1A) Vendor-Specific
Radius: Length = 49 (0x31)
Radius: Vendor ID = 9 (0x0000009)
Radius: Type = 1 (0x01) Cisco-AV-pair
Radius: Length = 43 (0x2B)
Radius: Value (String) =
61 75 64 69 74 2d 73 65 73 73 69 6f 6e 2d 69 64 | audit-session-id
3d 30 61 63 39 64 36 38 61 30 30 30 30 35 30 30 | =0ac9d68a0000500
30 35 62 62 65 31 66 39 31 | 05bbe1f91
Radius: Type = 26 (0x1A) Vendor-Specific
```

Radius: Length = 35 (0x23)Radius: Vendor $ID = 9 (0 \times 00000009)$ Radius: Type = 1 (0x01) Cisco-AV-pair Radius: Length = 29 (0x1D)Radius: Value (String) = 69 70 3a 73 6f 75 72 63 65 2d 69 70 3d 31 30 2e | ip:source-ip=192. 32 30 31 2e 32 31 34 2e 32 35 31 | 168.10.50 Radius: Type = 26 (0x1A) Vendor-Specific Radius: Length = 24 (0x18) Radius: Vendor ID = 3076 (0x00000C04) Radius: Type = 146 (0x92) Tunnel-Group-Name Radius: Length = 18 (0x12)Radius: Value (String) = 46 54 44 41 6e 79 43 6f 6e 6e 65 63 74 56 50 4e | FTDAnyConnectVPN Radius: Type = 26 (0x1A) Vendor-Specific Radius: Length = 12 (0x0C) Radius: Vendor ID = 3076 (0x0000C04)Radius: Type = 150 (0x96) Client-Type Radius: Length = 6 (0x06)Radius: Value (Integer) = 2 (0x0002)Radius: Type = 26 (0x1A) Vendor-Specific Radius: Length = 21 (0x15) Radius: Vendor ID = 9 (0x0000009) Radius: Type = 1 (0x01) Cisco-AV-pair Radius: Length = 15 (0x0F)Radius: Value (String) = 63 6f 61 2d 70 75 73 68 3d 74 72 75 65 | coa-push=true send pkt 192.168.1.10/1812 rip 0x00002ace10874b80 state 7 id 17 rad_vrfy() : response message verified rip 0x00002ace10874b80 : chall_state '' : state 0x7 : regauth: c6 fc 11 c1 0e c4 81 ac 09 a7 85 a8 83 c1 e4 88 : info 0x00002ace10874cc0 session_id 0x16 request_id 0x11 user 'jsmith' response '***' app 0 reason 0 skey 'cisco123' sip 192.168.1.10 type 1 RADIUS packet decode (response) _____ Raw packet data (length = 20) 03 11 00 14 15 c3 44 44 7d a6 07 0d 7b 92 f2 3b |DD}...{..; 0b 06 ba 74 | ...t Parsed packet data.... Radius: Code = 3 (0x03)Radius: Identifier = 17 (0x11) Radius: Length = 20 (0x0014) Radius: Vector: 15C344447DA6070D7B92F23B0B06BA74 rad_procpkt: REJECT RADIUS_DELETE remove_req 0x00002ace10874b80 session 0x16 id 17 free_rip 0x00002ace10874b80 radius: send queue empty radius mkreq: 0x18

alloc_rip 0x00002ace10874b80
new request 0x18 --> 18 (0x00002ace10874b80)
add_req 0x00002ace10874b80 session 0x18 id 18
ACCT_REQUEST
radius.c: rad_mkpkt

RADIUS packet decode (accounting request)

04 12 02 ca be a0 6e 46 71 af 50 78 61 d7 01 08 6a 73 6d 69 74 68 05 06 00 00 1 Parejsmith 50 08 03 12 13 43 41 43 53 3a 01 16 63 39 44 1
50 78 61 d7 01 08 62 74 68 05 06 00 00 01 08 06 1 Pranjsmith 0 a8 03 12 19 34 41 43 53 30 30 35 30 30 30 33 30 1 33 30 33 33 31 33 32 1 1 1.2.;CACS:0ac9d 36 38 13 30 33 31 36 35 21 2 23 33 21 2 23 33 21 2 23 34 23 31 35 31 16 1 2.;CACS:0ac9d 10 31 30 28 33 31 31 36 35 31 16 1 2.;CACS:0ac9d
50 00 00 00 00 00 01 08 06 1
c0 a8 0a 32 19 3b 43 41 43 53 3a 30 61 63 39 64 1 2.;CACS:0ac9d 66 39 31 3a 65 71 65 26 65 31 21 15 15 33 32 1 16 8800005005bbel 10 31 30 2e 32 31 43 38 42 31 31 36 32 11 1 2030.0113.2. 10 31 30 2e 32 31 34 2e 32 35 31 26 23.0.0113.2. 10 31 30 2e 32 30 31 2e 32 35 31 26 2.2.0.0.0113.2. 11 18 00 00 02 2 2 45 44 41 6e 79 43
36 38 61 30 30 30 35 30 30 35 62 62 63 31 3 43 30 38 34 34 30 38 34
66 39 31 3a 63 64 72 62 69 69 73 65 21 33 32 1 191:corbinise/32 32 33 34 34 30 38 34 21 31 32 31 34 38 32 1 1 2344084/1931682. 10 31 30 28 30 31 2e 32 31 34 28 31 34 34 31 46 1 .203.0113.2. 10 31 30 28 30 31 2e 32 31 34 2e 32 35 1 46 1
32 33 34 34 30 38 34 2 31 39 33 31 36 38 32 1e 2344084/1931682. 10 31 30 2e 32 30 31 2e 32 31 34 2e 31 35 31 1f .203.0.113.2. 10 31 30 2e 32 31 34 2e 32 35 31 26 .203.0.113.2. 10 30 30 35 2d 06 00 00 01 31 30 2e 32 31 34 2e 32 35 1 .198.51.100.2(05 42 10 31 30 2e 32 31 34 2e 32 35 1 .198.51.100.2(05 42 10 31 30 2e 32 31 34 2e 32 35 1 .108.51.100.2(05 42 10 11 30 00 0 <t< td=""></t<>
10 31 30 2e 32 30 31 2e 32 31 34 2e 31 35 31 1f
10 31 30 2e 32 31 34 2e 32 35 31 28 .198.51.100.2(06 00 00 12 90 00 00 00 2c 0a 43 31 46)
06 00 00 01 29 06 00 00 01 30 31 46),
30 30 35 2d 06 00 00 01 3d 06 00 00 00 01 3d 06 00 00 01 3d 3d 2e 32 31 34 2e 32 35 .B.203.0.113.2 31 1a 18 00 00 0c 04 92 12 46 54 44 41 6e 79 43
05 42 10 31 30 2e 32 31 34 2e 32 35 .B.203.0.113.2 31 1a 18 00 00 0c 04 92 12 46 54 44 41 6e 79 43 FTDAnyC 6f 6e 65 63 74 56 50 4e 1a 00 01 1.a 1.a 00 00 00 01 1.a 1.a 00 00 1.a 1.a 00 00 1.a 1.a 00 00 1.a 1.a 0.a 0.a 1.a 1.a <t< td=""></t<>
31 1a 18 00 00 0c 04 92 12 46 54 44 41 6e 79 43
6f 6e 65 63 74 56 50 4e 1a 0c 00 0c 04 96 0 00 00 00 1a 0c 00
06 00 00 02 1a 0c 00 02 04 97 06 00 00 0 1 01 1a 0c 00 02 04 98 06 00 03 1a 23 00 mdm-tlv=dev 09 03 02 01 1d 6d 6d 2d 74 6c 76 3d 64 65 76 mdm-tlv=dev 69 63 65 2d 70 6c 61 74 6c 76 3d 77 69 6e mdm-tlv=dev 64 65 76 69 63 65 2d 61 73 63 73 73 69 61
01 1a 0c 00 0c 04 98 06 00 00 03 1a 23 00
00 09 01 1d 6d 64 6d 74 6c 76 3d 64 65 76 I ice-platform=win 1a 2c 00 00 00 01 26 6d 64 6d 2d 74 6c 76 3d I mdm-tlv=dev 64 65 76 69 63 65 2d 6d 61 63 3d 30 2d 30 3I I device-mac=00-0c 2d 32 39 2d 33 37 2d 65 66 2d 62 66 1a 31 00 0I -29-37-ef-bf.1 00 09 01 2b 61 75 64 69 74 2d 73 65 76 I +audit-sessio 64 64 64 2d 74 6c 76 3d 64 10 30 0I Imdm-tlv=dev 65 63 74 62 66 64 6
69 63 65 2d 70 6c 61 74 66 6f 72 6d 3d 77 69 6e ice-platform=win 1a 2c 00 00 09 01 26 6d 64 6d 2d 74 6c 76 3d .,&mdm-tlv= 64 65 76 69 63 65 2d 66 2d 73 65 73 73 69 6f &mdm-tlv= 64 69 64 3d 30 61 63 39 64 36 38 61 30 30 1 -29-37-ef-bf.1 00 09 01 2b 61 75 64 69 74 2d 73 73 69 6f +audit-sessio 60 30 30 30 30 30 30 30 ice-public-mace 00 00 09 01 2d 64 66 66
1a 2c 00 00 09 01 26 6d 6d 2d 74 6c 76 3d 1 .,&mdm-tlv= 64 65 76 69 63 65 2d 6d 61 63 3d 30 30 2d 30 63 device-mac=00-0c 2d 32 39 2d 33 37 2d 65 66 2d 65 73 73 69 6f +audit-sessio 00 09 01 2b 61 75 64 69 74 2d 73 65 73 73 69 6f +audit-sessio 60 09 01 2b 61 75 64 64 2d 74 6c 76 3d 30 30 1 n-id=0ac9d68a000 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 1 n-id=0ac9d68a000
64 65 76 69 63 65 2d 6d 61 63 3d 30 30 2d 30 63 device-mac=00-0c 2d 32 39 2d 33 37 2d 65 66 2d 62 66 1a 31 00 00 -29-37-ef-bf.1 00 09 01 2b 61 75 64 69 74 2d 73 65 73 73 69 6f +audit-sessio 6e 2d 69 64 3d 30 65 76 30 30 1 n-id=0ac9d68a000 30 30 01 2d 64 64 2d 74 6c 76 3d 30 1 i.ice-public-mac=0 60 65 2d 70 75 62 6c 66 66 3d 3d 3d 1 i.ice-public-mac=0 70 73 65 72 74 66 76 <td< td=""></td<>
24 32 39 2d 33 37 2d 65 66 2d 65 1a 31 00 00 -29-37-ef-bf.1 00 09 01 2b 61 75 64 69 74 2d 73 65 73 73 69 6f +audit-sessio 6e 2d 69 64 3d 30 16 63 39 61 30 30 1 n-id=0ac9d68a000 30 35 30 30 30 30 30 30 1 1a 33 00 0 050005bbelf91.3. 00 00 09 01 2d 64 64 2d 74 6c 76 3d 30 1 ice-public-mace0 30 00 09 01 2d 64 64 64 64 64 64 64 64 64 66 66 66 66 66 66 66 66 66 66 66 66
00 09 01 2b 61 75 64 69 74 2d 73 65 73 73 69 6f +audit-sessio 66 2d 69 64 3d 30 61 63 39 64 36 38 61 30 30 30 1 n-id=0ac9d68a000 30 35 30 30 35 62 62 65 31 66 39 31 1a 33 00 0 050005bbelf91.3. 00 00 09 01 2d 64 6d 2d 74 6c 76 3d 64 65 76 1 mdm-tlv=dev 69 63 65 2d 70 75 62 6c 64 6d 61 63 3d 30 1 1.e=-public-mace 10 2d 75 73 65 72 2d 61 67 66 76 3d 41 6e 1 4mdm-tlv=
6e 2d 69 64 3d 30 61 63 39 64 36 30 1 1a 33 00 0 050005bbelf91.3. 00 00 00 01 2d 62 62 66 2d 62 66 1 63 30 1 ice-public-mace 30 2d 30 2d 32 39 2d 33 37 2d 65 66 2d 62 66 1 endm-tlv=device 10 30 60 00 00 00 00 33 30 34 39 1a 3f 00 00
30 35 30 30 35 62 62 65 31 66 39 31 1a 33 00 0 050005bbelf91.3. 00 00 09 01 2d 6d 64 6d 2d 74 6c 76 3d 64 65 76 mdm-tlv=dev 69 63 63 2d 70 75 62 6c 69 63 2d 6d 61 63 3d 30 ice-public-mac=0 30 2d 30 63 2d 32 39 2d 33 37 2d 65 66 2d 66 o-oc-29-37-ef-bf 1a 3a 00 00 09 01 34 64 64 2d 74 6c 76 3d 1 i
00 00 01 2d 6d 6d 2d 74 6c 76 3d 64 65 76 ice-public-mac=0 30 2d 30 63 2d 32 32 32 32 32 32 32 33 37 2d 65 66 2d 62 66 0 0-0c-29-37-ef-bf 1a 3a 00 00 00 09 01 34 6d 6d 2d 74 6c 76 3d 1 .:4mdm-tlv= 61 63 2d 75 73 65 72 2d 61 67 65 6e 74 3d 41 6e 1 ac-user-agent=An 79 43 6f 6e 65 63 74 20 57 69 6e 64 67 73 1 yConnect Windows 20 34 2e 36 2e 30 33 30 34 39 1a 3f 00 00 00 0
69 63 65 2d 70 75 62 62 69 63 2d 64 61 63 3d 30 1 ice-public-mac=0 30 2d 30 63 2d 32 39 2d 33 37 2d 65 66 2d 62 66 1 0-0c-29-37-ef-bf 1a 3a 00 00 09 01 34 6d 64 2d 74 6c 76 3d 1 4mdm-tlv= 61 63 2d 75 73 65 72 2d 61 67 65 6e 74 3d 41 6e 1 ac-user-agent=An 79 43 6f 6e 65 63 74 20 57 69 6e 64 67 73 1 yConnect Windows 20 34 2e 36 2d 74 6c 76 3d 64 65 7 73 69 61 -platform-versio <tr< td=""></tr<>
30 2d 30 63 2d 32 39 2d 33 37 2d 65 66 2d 66 0-0c-29-37-ef-bf 1a 3a 00 00 09 01 34 6d 64 6d 2d 74 6c 76 3d 4mdm-tlv= 61 63 2d 75 73 65 72 2d 61 67 65 6e 74 3d 41 6e ac-user-agent=An 79 43 6f 6e 65 63 74 20 57 69 6e 64 67 73 yConnect Windows 20 34 2e 36 2e 30 33 30 34 39 1a 3f 00 00 09 4.6.03049.? 139 6d 64 6d 2d 74 6c 76 3d 64 65 7 69 63 65
1a 3a 00 00 00 09 01 34 6d 6d 2d 74 6c 76 3d .:4mdm-tlv= 61 63 2d 75 73 65 72 2d 61 67 65 6e 74 3d 41 6e ac-user-agent=An 79 43 6f 6e 65 63 74 20 57 69 6e 64 67 73 yConnect Windows 20 34 2e 36 2e 30 33 30 34 39 1a 3f 00 00 09 4.6.03049.? 10 39 6d 64 6d 2d 74 6c 76 3d 64 72 73 69 63 65
61 63 2d 75 73 65 72 2d 61 67 65 6e 74 3d 41 6e ac-user-agent=An 79 43 6f 6e 65 63 74 20 57 69 6e 64 6f 77 73 yConnect Windows 20 34 2e 36 2e 30 33 30 34 39 1a 3f 00 00 00 9 4.6.03049.? 01 39 6d 64 6d 2d 74 6c 76 3d 64 72 73 69 65 1 .9mdm-tlv=device 2d 70 6c 61 74 66 6f 72 6d 72 73 69 61 -platform-versio 64 36 2e 31 2e 37 36 31 20 53 65 72 76 69 1 -eplatform-versio 64 64
79 43 6f 6e 6e 63 74 20 57 69 6e 6f 77 73 yConnect Windows 20 34 2e 36 2e 30 33 30 34 39 1a 3f 00 00 00 09 4.6.03049.? 01 39 6d 64 6d 2d 74 6c 76 3d 64 65 76 69 63 65 .9mdm-tlv=device 2d 70 6c 61 74 66 6f 72 6d 65 72 73 69 6f -platform-versio 6a 3d 2e 31 2e 37 36 30 31 20 53 65 72 76 69 n=6.1.7601 Servi 63 64 6d 2d 74 6c 76 3d 64 65 2d 10 00 00 00 09 01 mdm-tl
20 34 2e 36 2e 30 33 30 34 39 1a 3f 00 00 09 4.6.03049.? 01 39 6d 64 6d 2d 74 6c 76 3d 64 65 76 69 63 65 .9mdm-tlv=device 2d 70 6c 61 74 66 6f 72 6d 65 72 73 69 6f -platform-versio 6a 3d 2e 31 2e 37 36 30 31 20 53 65 72 76 69 n=6.1.7601 Servi 63 65 20 50 61 63 6b 20 31 1a 40 00 00 09 01 ce Pack 1.@ 3a 6d 64 6d 2d 74 6c 76 3d 64 65 2d 16 63 type=VMware, Inc
01 39 6d 64 6d 2d 74 6c 76 3d 64 65 76 69 63 65 .9mdm-tlv=device 2d 70 6c 61 74 66 6f 72 6d 2d 76 65 72 73 69 6f -platform-versio 6e 3d 36 2e 31 2e 37 36 30 31 20 53 65 72 76 69 n=6.1.7601 Servi 63 65 20 50 61 63 6b 20 31 1a 40 00 00 09 01 ce Pack 1.@ 3a 64 64 64 2d 74 6c 76 3d 64 65 2d 69 63 65 2d i imm-tlv=device 74 79 70 65 3d 56 61 72 61 72 69 63 65
2d 70 6c 61 74 66 6f 72 6d 2d 76 65 72 73 69 6f -platform-versio 6e 3d 36 2e 31 2e 37 36 30 31 20 53 65 72 76 69 n=6.1.7601 Servi 63 65 20 50 61 63 6b 20 31 1a 40 00 00 09 01 ce Pack 1.@ 3a 6d 64 6d 2d 74 6c 76 3d 64 65 76 69 63 65 2d 1 :mdm-tlv=device- 74 79 70 65 3d 56 76 76 69 63 65 2d 1 :mdm-tlv=device- 74 79 70 65 3d 56 69 72 74 75 61 6c 1 type=VMware, Inc . . <td< td=""></td<>
6e 3d 3e 2e 31 2e 37 36 30 31 20 53 65 72 76 69 n=6.1.7601 Servi 63 65 20 50 61 63 6b 20 31 1a 40 00 00 09 01 ce Pack 1.@ 3a 6d 64 6d 2d 74 6c 76 3d 64 65 76 69 63 65 2d :mdm-tlv=device- 74 79 70 65 3d 56 70 76 69 63 65 2d :mdm-tlv=device- 74 79 70 65 3d 56 69 72 74 75 61 62 type=VMware, Inc 2e 20 56 4d 77 61 72 66 69 72 74 75 61 6c . VMware Virtual 20 56 64
63 65 20 50 61 63 6b 20 31 1a 40 00 00 00 01 ce Pack 1.@ 3a 6d 64 6d 2d 74 6c 76 3d 64 65 76 69 63 65 2d :mdm-tlv=device- 74 79 70 65 3d 56 4d 77 61 72 65 2c 20 49 6e 63 type=VMware, Inc 2e 20 56 4d 77 61 72 65 2c 20 49 6e 63 type=VMware, Inc 2e 20 56 4d 77 61 72 65 69 72 74 75 61 6c . VMware Virtual 20 50 6c 61 74 6c 76 3d 64 55 60 00 00 00 01 Platform.[
3a 6d 6d 6d 2d 74 6c 76 3d 64 65 76 69 63 65 2d :mdm-tlv=device- 74 79 70 65 3d 56 4d 77 61 72 65 2c 20 49 6e 63 type=VMware, Inc 2e 20 56 4d 77 61 72 65 2c 20 49 6e 63 type=VMware, Inc 2e 20 56 4d 77 61 72 65 69 72 74 75 61 6c . VMware Virtual 20 50 6c 61 74 66 6f 72 6d 1a 5b 00 00 09 01 Platform.[50 6d 64 6d 2d 74 6c 76 3d 64 65 76 69 63 65 2d Umdm-tlv=device-
74 79 70 65 3d 56 4d 77 61 72 65 2c 20 49 6e 63 type=VMware, Inc 2e 20 56 4d 77 61 72 65 2c 20 49 6e 63 type=VMware, Inc 2e 20 56 4d 77 61 72 65 74 75 61 6c . VMware Virtual 20 50 6c 61 74 66 6f 72 6d 1a 5b 00 00 09 01 Platform.[55 6d 64 6d 2d 74 6c 76 3d 64 65 76 69 63 65 2d Umdm-tlv=device- 75 69 64 3d 33 36 39 33 36 34 30 37 43 39 32 uid=3693C6407C92
2e 20 56 4d 77 61 72 65 20 56 69 72 74 75 61 6c . VMware Virtual 20 50 6c 61 74 66 6f 72 6d 1a 5b 00 00 09 01 Platform.[55 6d 64 6d 2d 74 6c 76 3d 64 65 76 69 63 65 2d Umdm-tlv=device- 75 69 64 3d 33 36 39 33 36 34 30 37 43 39 32 uid=3693C6407C92
20 50 6c 61 74 66 6f 72 6d 1a 5b 00 00 09 01 Platform.[55 6d 64 6d 2d 74 6c 76 3d 64 65 76 69 63 65 2d Umdm-tlv=device- 75 69 64 3d 36 39 33 43 36 34 30 37 43 39 32 uid=3693C6407C92
55 6d 6d 2d 74 6c 76 3d 64 65 76 69 63 65 2d Umdm-tlv=device- 75 69 64 3d 36 39 33 43 36 34 30 37 43 39 32 uid=3693C6407C92
75 69 64 3d 33 36 39 33 43 36 34 30 37 43 39 32 uid=3693C6407C92
35 32 35 31 46 46 37 32 42 36 34 39 33 42 44 44 5251FF72B6493BDD
38 37 33 31 38 41 42 46 43 39 30 43 36 32 31 35 87318ABFC90C6215
34 32 43 33 38 46 41 46 38 37 38 45 46 34 39 36 42C38FAF878EF496
31 34 41 31 04 06 00 00 00 00 14A1

Parsed packet data..... Radius: Code = 4 (0x04) Radius: Identifier = 18 (0x12) Radius: Length = 714 (0x02CA) Radius: Vector: BEA06E4671AF5C658277C7B5507861D7 Radius: Type = 1 (0x01) User-Name Radius: Length = 8 (0x08) Radius: Value (String) =

6a 73 6d 69 74 68 | jsmith Radius: Type = 5 (0x05) NAS-Port Radius: Length = 6 (0x06)Radius: Value (Hex) = 0x5000Radius: Type = 6 (0x06) Service-Type Radius: Length = 6 (0x06)Radius: Value (Hex) = 0x2Radius: Type = 7 (0x07) Framed-Protocol Radius: Length = 6 (0x06)Radius: Value (Hex) = 0x1Radius: Type = 8 (0x08) Framed-IP-Address Radius: Length = 6 (0x06)Radius: Value (IP Address) = 192.168.10.50 (0xC0A80A32) Radius: Type = 25 (0x19) Class Radius: Length = 59 (0x3B)Radius: Value (String) = 43 41 43 53 3a 30 61 63 39 64 36 38 61 30 30 30 | CACS:0ac9d68a000 30 35 30 30 30 35 62 62 65 31 66 39 31 3a 63 6f | 050005bbe1f91:co 72 62 69 6e 69 73 65 2f 33 32 32 33 34 34 30 38 | rbinise/32234408 34 2f 31 39 33 31 36 38 32 | 4/1931682 Radius: Type = 30 (0x1E) Called-Station-Id Radius: Length = 16 (0x10)Radius: Value (String) = 31 30 2e 32 30 31 2e 32 31 34 2e 31 35 31 | 203.0.113.2 Radius: Type = 31 (0x1F) Calling-Station-Id Radius: Length = 16 (0x10)Radius: Value (String) = 31 30 2e 32 30 31 2e 32 31 34 2e 32 35 31 | 198.51.100.2 Radius: Type = 40 (0x28) Acct-Status-Type Radius: Length = 6 (0x06)Radius: Value (Hex) = 0x1Radius: Type = 41 (0x29) Acct-Delay-Time Radius: Length = 6 (0x06)Radius: Value (Hex) = 0x0Radius: Type = 44 (0x2C) Acct-Session-Id Radius: Length = 10 (0x0A)Radius: Value (String) = 43 31 46 30 30 30 30 35 | C1F00005 Radius: Type = 45 (0x2D) Acct-Authentic Radius: Length = 6 (0x06)Radius: Value (Hex) = 0x1Radius: Type = 61 (0x3D) NAS-Port-Type Radius: Length = 6 (0x06)Radius: Value (Hex) = 0x5Radius: Type = 66 (0x42) Tunnel-Client-Endpoint Radius: Length = 16 (0x10)Radius: Value (String) = 31 30 2e 32 30 31 2e 32 31 34 2e 32 35 31 | 198.51.100.2 Radius: Type = 26 (0x1A) Vendor-Specific Radius: Length = 24 (0x18) Radius: Vendor ID = 3076 (0x00000C04) Radius: Type = 146 (0x92) Tunnel-Group-Name Radius: Length = 18 (0x12)Radius: Value (String) = 46 54 44 41 6e 79 43 6f 6e 6e 65 63 74 56 50 4e | FTDAnyConnectVPN Radius: Type = 26 (0x1A) Vendor-Specific Radius: Length = 12 (0x0C) Radius: Vendor ID = 3076 (0x00000C04) Radius: Type = 150 (0x96) Client-Type Radius: Length = 6 (0x06)Radius: Value (Integer) = 2 (0x0002) Radius: Type = 26 (0x1A) Vendor-Specific Radius: Length = 12 (0x0C)Radius: Vendor ID = 3076 (0x00000C04)

Radius: Type = 151 (0x97) VPN-Session-Type Radius: Length = 6 (0x06)Radius: Value (Integer) = 1 (0x0001) Radius: Type = 26 (0x1A) Vendor-Specific Radius: Length = 12 (0x0C) Radius: Vendor ID = 3076 (0x00000C04) Radius: Type = 152 (0x98) VPN-Session-Subtype Radius: Length = 6 (0x06)Radius: Value (Integer) = 3 (0x0003)Radius: Type = 26 (0x1A) Vendor-Specific Radius: Length = 35 (0x23)Radius: Vendor ID = 9 (0x0000009) Radius: Type = 1 (0x01) Cisco-AV-pair Radius: Length = 29 (0x1D) Radius: Value (String) = 6d 64 6d 2d 74 6c 76 3d 64 65 76 69 63 65 2d 70 | mdm-tlv=device-p 6c 61 74 66 6f 72 6d 3d 77 69 6e | latform=win Radius: Type = 26 (0x1A) Vendor-Specific Radius: Length = 44 (0x2C) Radius: Vendor $ID = 9 (0 \times 00000009)$ Radius: Type = 1 (0x01) Cisco-AV-pair Radius: Length = 38 (0x26)Radius: Value (String) = 6d 64 6d 2d 74 6c 76 3d 64 65 76 69 63 65 2d 6d | mdm-tlv=device-m 61 63 3d 30 30 2d 30 63 2d 32 39 2d 33 37 2d 65 | ac=00-0c-29-37-e 66 2d 62 66 | f-bf Radius: Type = 26 (0x1A) Vendor-Specific Radius: Length = 49 (0x31)Radius: Vendor ID = 9 (0x0000009) Radius: Type = 1 (0x01) Cisco-AV-pair Radius: Length = 43 (0x2B) Radius: Value (String) = 61 75 64 69 74 2d 73 65 73 73 69 6f 6e 2d 69 64 | audit-session-id 3d 30 61 63 39 64 36 38 61 30 30 30 30 35 30 30 | =0ac9d68a0000500 30 35 62 62 65 31 66 39 31 | 05bbe1f91 Radius: Type = 26 (0x1A) Vendor-Specific Radius: Length = 51 (0x33) Radius: Vendor $ID = 9 (0 \times 00000009)$ Radius: Type = 1 (0x01) Cisco-AV-pair Radius: Length = 45 (0x2D)Radius: Value (String) = 6d 64 6d 2d 74 6c 76 3d 64 65 76 69 63 65 2d 70 | mdm-tlv=device-p 75 62 6c 69 63 2d 6d 61 63 3d 30 30 2d 30 63 2d | ublic-mac=00-0c-32 39 2d 33 37 2d 65 66 2d 62 66 | 29-37-ef-bf Radius: Type = 26 (0x1A) Vendor-Specific Radius: Length = 58 (0x3A)Radius: Vendor ID = 9 (0x0000009) Radius: Type = 1 (0x01) Cisco-AV-pair Radius: Length = 52 (0x34)Radius: Value (String) = 6d 64 6d 2d 74 6c 76 3d 61 63 2d 75 73 65 72 2d | mdm-tlv=ac-user-61 67 65 6e 74 3d 41 6e 79 43 6f 6e 6e 65 63 74 | agent=AnyConnect 20 57 69 6e 64 6f 77 73 20 34 2e 36 2e 30 33 30 | Windows 4.6.030 34 39 49 Radius: Type = 26 (0x1A) Vendor-Specific Radius: Length = 63 (0x3F)Radius: Vendor ID = 9 (0x0000009) Radius: Type = 1 (0x01) Cisco-AV-pair Radius: Length = 57 (0x39)Radius: Value (String) = 6d 64 6d 2d 74 6c 76 3d 64 65 76 69 63 65 2d 70 | mdm-tlv=device-p 6c 61 74 66 6f 72 6d 2d 76 65 72 73 69 6f 6e 3d | latform-version= 36 2e 31 2e 37 36 30 31 20 53 65 72 76 69 63 65 | 6.1.7601 Service 20 50 61 63 6b 20 31 | Pack 1

```
Radius: Type = 26 (0x1A) Vendor-Specific
Radius: Length = 64 (0x40)
Radius: Vendor ID = 9 (0x0000009)
Radius: Type = 1 (0x01) Cisco-AV-pair
Radius: Length = 58 (0x3A)
Radius: Value (String) =
6d 64 6d 2d 74 6c 76 3d 64 65 76 69 63 65 2d 74 | mdm-tlv=device-t
79 70 65 3d 56 4d 77 61 72 65 2c 20 49 6e 63 2e | ype=VMware, Inc.
20 56 4d 77 61 72 65 20 56 69 72 74 75 61 6c 20 | VMware Virtual
50 6c 61 74 66 6f 72 6d | Platform
Radius: Type = 26 (0x1A) Vendor-Specific
Radius: Length = 91 (0x5B)
Radius: Vendor ID = 9 (0x0000009)
Radius: Type = 1 (0x01) Cisco-AV-pair
Radius: Length = 85 (0x55)
Radius: Value (String) =
6d 64 6d 2d 74 6c 76 3d 64 65 76 69 63 65 2d 75 | mdm-tlv=device-u
69 64 3d 33 36 39 33 43 36 34 30 37 43 39 32 35 | id=3693c6407c925
32 35 31 46 46 37 32 42 36 34 39 33 42 44 44 38 | 251FF72B6493BDD8
37 33 31 38 41 42 46 43 39 30 43 36 32 31 35 34 | 7318ABFC90C62154
32 43 33 38 46 41 46 38 37 38 45 46 34 39 36 31 | 2C38FAF878EF4961
34 41 31 | 4A1
Radius: Type = 4 (0x04) NAS-IP-Address
Radius: Length = 6 (0x06)
Radius: Value (IP Address) = 0.0.0.0 (0x0000000)
send pkt 192.168.1.10/1813
rip 0x00002ace10874b80 state 6 id 18
rad_vrfy() : response message verified
rip 0x00002ace10874b80
: chall_state ''
: state 0x6
: reqauth:
be a0 6e 46 71 af 5c 65 82 77 c7 b5 50 78 61 d7
: info 0x00002ace10874cc0
session_id 0x18
request_id 0x12
user 'jsmith'
response '***'
app 0
reason 0
skey 'cisco123'
sip 192.168.1.10
type 3
RADIUS packet decode (response)
-----
Raw packet data (length = 20) .....
05 12 00 14 e5 fd b1 6d fb ee 58 f0 89 79 73 8e | ....m..X..ys.
90 dc a7 20 | ...
Parsed packet data....
Radius: Code = 5 (0x05)
Radius: Identifier = 18 (0x12)
Radius: Length = 20 (0x0014)
Radius: Vector: E5FDB16DFBEE58F08979738E90DCA720
rad_procpkt: ACCOUNTING_RESPONSE
RADIUS_DELETE
remove_req 0x00002ace10874b80 session 0x18 id 18
free_rip 0x00002ace10874b80
radius: send queue empty
ciscofp3#
```

Seja executado 'debugam o comando do anyconnect 255' do webvpn em FTD CLI diagnóstico

(apoio diagnóstico-CLI do >system) e batem o " conectar " no PC de Windows/Mac no cliente de Cisco Anyconnect

```
> system support diagnostic-cli
Attaching to Diagnostic CLI ... Press 'Ctrl+a then d' to detach.
ciscofp3> enable
Password: <hit enter>
ciscofp3# terminal monitor
ciscofp3# debug webvpn anyconnect 255
<hit Connect on Anyconnect client on PC>
http_parse_cstp_method()
... input: 'CONNECT /CSCOSSLC/tunnel HTTP/1.1'
webvpn_cstp_parse_request_field()
...input: 'Host: ciscofp3.cisco.com'
Processing CSTP header line: 'Host: ciscofp3.cisco.com'
webvpn_cstp_parse_request_field()
... input: 'User-Agent: Cisco AnyConnect VPN Agent for Windows 4.6.03049'
Processing CSTP header line: 'User-Agent: Cisco AnyConnect VPN Agent for Windows 4.6.03049'
Setting user-agent to: 'Cisco AnyConnect VPN Agent for Windows 4.6.03049'
webvpn_cstp_parse_request_field()
...input: 'Cookie: webvpn=2B0E85@28672@6501@2FF4AE4D1F69B98F26E8CAD62D5496E5E6AE5282'
Processing CSTP header line: 'Cookie:
webvpn=2B0E85@28672@6501@2FF4AE4D1F69B98F26E8CAD62D5496E5E6AE5282 '
Found WebVPN cookie: 'webvpn=2B0E85@28672@6501@2FF4AE4D1F69B98F26E8CAD62D5496E5E6AE5282'
WebVPN Cookie: 'webvpn=2B0E85@28672@6501@2FF4AE4D1F69B98F26E8CAD62D5496E5E6AE5282'
webvpn_cstp_parse_request_field()
...input: 'X-CSTP-Version: 1'
Processing CSTP header line: 'X-CSTP-Version: 1'
webvpn_cstp_parse_request_field()
... input: 'X-CSTP-Hostname: jsmith-PC'
Processing CSTP header line: 'X-CSTP-Hostname: jsmith-PC'
Setting hostname to: 'jsmith-PC'
webvpn_cstp_parse_request_field()
...input: 'X-CSTP-MTU: 1399'
Processing CSTP header line: 'X-CSTP-MTU: 1399'
webvpn_cstp_parse_request_field()
... input: 'X-CSTP-Address-Type: IPv6, IPv4'
Processing CSTP header line: 'X-CSTP-Address-Type: IPv6, IPv4'
webvpn_cstp_parse_request_field()
...input: 'X-CSTP-Local-Address-IP4: 198.51.100.2'
Processing CSTP header line: 'X-CSTP-Local-Address-IP4: 198.51.100.2'
webvpn_cstp_parse_request_field()
...input: 'X-CSTP-Base-MTU: 1500'
Processing CSTP header line: 'X-CSTP-Base-MTU: 1500'
webvpn_cstp_parse_request_field()
...input: 'X-CSTP-Remote-Address-IP4: 203.0.113.2'
Processing CSTP header line: 'X-CSTP-Remote-Address-IP4: 203.0.113.2'
webvpn_cstp_parse_request_field()
... input: 'X-CSTP-Full-IPv6-Capability: true'
Processing CSTP header line: 'X-CSTP-Full-IPv6-Capability: true'
webvpn_cstp_parse_request_field()
... input: 'X-DTLS-Master-Secret:
1FA92A96D5E82C13CB3A5758F11371EE6B54C6F36F0A8DCE8F4DECB73A034EEF4FE95DA614A5872E1EE5557C3BF4765A
Processing CSTP header line: 'X-DTLS-Master-Secret:
```

```
webvpn_cstp_parse_request_field()
```

...input: 'X-DTLS-CipherSuite: DHE-RSA-AES256-GCM-SHA384:DHE-RSA-AES256-SHA256:DHE-RSA-AES256-SHA256:DHE-RSA-AES128-SHA:DHE-RSA-AES128-GCM-SHA256:DHE-RSA-AES128-SHA:AES128-SHA:AES256-SHA:AES128-SHA:DES-CBC3-SHA'

```
Processing CSTP header line: 'X-DTLS-CipherSuite: DHE-RSA-AES256-GCM-SHA384:DHE-RSA-AES256-
SHA256:DHE-RSA-AES256-SHA:DHE-RSA-AES128-GCM-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES1
SHA:AES256-SHA:AES128-SHA:DES-CBC3-SHA'
webvpn_cstp_parse_request_field()
... input: 'X-DTLS-Accept-Encoding: lzs'
Processing CSTL header line: 'X-DTLS-Accept-Encoding: lzs'
webvpn_cstp_parse_request_field()
... input: 'X-DTLS-Header-Pad-Length: 0'
webvpn_cstp_parse_request_field()
... input: 'X-CSTP-Accept-Encoding: lzs, deflate'
Processing CSTP header line: 'X-CSTP-Accept-Encoding: lzs,deflate'
webvpn_cstp_parse_request_field()
...input: 'X-CSTP-Protocol: Copyright (c) 2004 Cisco Systems, Inc.'
Processing CSTP header line: 'X-CSTP-Protocol: Copyright (c) 2004 Cisco Systems, Inc.'
cstp_util_address_ipv4_accept: address asigned: 192.168.10.50
cstp_util_address_ipv6_accept: No IPv6 Address
np_svc_create_session(0x7000, 0x00002acdff1d6440, TRUE)
webvpn_svc_np_setup
SVC ACL Name: NULL
SVC ACL ID: -1
vpn_put_uauth success for ip 192.168.10.50!
No SVC ACL
Iphdr=20 base-mtu=1500 def-mtu=1500 conf-mtu=1406
tcp-mss = 1460
path-mtu = 1460 (mss)
TLS Block size = 16, version = 0x303
mtu = 1460 (path-mtu) - 0 (opts) - 5 (ssl) - 16 (iv) = 1439
mod-mtu = 1439(mtu) & 0xfff0(complement) = 1424
tls-mtu = 1424(mod-mtu) - 8(cstp) - 48(mac) - 1(pad) = 1367
DTLS Block size = 16
mtu = 1500(base-mtu) - 20(ip) - 8(udp) - 13(dtlshdr) - 16(dtlsiv) = 1443
mod-mtu = 1443(mtu) & 0xfff0(complement) = 1440
dtls-mtu = 1440(mod-mtu) - 1(cdtp) - 20(mac) - 1(pad) = 1418
computed tls-mtu=1367 dtls-mtu=1418 conf-mtu=1406
DTLS enabled for intf=3 (outside)
overide computed dtls-mtu=1418 with conf-mtu=1406
tls-mtu=1367 dtls-mtu=1406
SVC: adding to sessmgmt
Sending X-CSTP-MTU: 1367
Sending X-DTLS-MTU: 1406
Sending X-CSTP-FW-RULE msgs: Start
Sending X-CSTP-FW-RULE msgs: Done
Sending X-CSTP-Quarantine: false
Sending X-CSTP-Disable-Always-On-VPN: false
Sending X-CSTP-Client-Bypass-Protocol: false
```

Cisco ISE

Cisco ISE > operações > RAIO > logs vivos > detalhes do clique de cada autenticação

Verifique em Cisco ISE seu início de uma sessão VPN e o resultado "PermitAccess" ACL é dado Vive o jsmith da mostra dos logs autenticado a FTD através do VPN com sucesso

dentity Services Engine

Overview

5200 Authentication succeeded
jsmith
VPN Users >> Default
VPN Users >> Allow ASA VPN connections if AD Group VPNusers
PermitAccess

Authentication Details

Source Timestamp	2018-10-09 01:47:55.112
Received Timestamp	2018-10-09 01:47:55 113
Policy Server	corbinise
Event	5200 Authentication succeeded
Username	jsmith
Endpoint Id	
Calling Station Id	
Authentication Identity Store	corbdc3
Audit Session Id	0000000000070005bbc08c3
Authentication Method	PAP_ASCII
Authentication Protocol	PAP_ASCII
Network Device	FTDVPN
Device Type	All Device Types
Location	All Locations

Steps

11001	Received RADIUS Access-Request
11017	RADIUS created a new session
15049	Evaluating Policy Group
15008	Evaluating Service Selection Policy
15048	Queried PIP - Airespace Airespace-Wlan-Id
15048	Queried PIP - Radius NAS-Port-Type
15041	Evaluating Identity Policy
15048	Queried PIP - Normalised Radius RadiusFlowType
22072	Selected identity source sequence - All_User_ID_Stores
15013	Selected Identity Source - Internal Users
24210	Looking up User in Internal Users IDStore - jsmith
24216	The user is not found in the internal users identity store
15013	Selected Identity Source - All_AD_Join_Points
24430	Authenticating user against Active Directory - All_AD_Join_Points
24325	Resolving identity - jsmith (2 Step latency=7106 ms)
24313	Search for matching accounts at join point -
24319	Single matching account found in forest -
24313	Search for matching accounts at join point - windows_ad_server.com
24366	Skipping unjoined domain - Windows_AD_Server.com
24323	identity resolution detected single matching account
24343	RPC Logon request succeeded - jsmittl
24402	User authentication against Active Directory succeeded - All_AD_Join_Points
22037	Authentication Passed
24715	ISE has not confirmed locally previous successful machine authentication for user in Active Directory
15036	Evaluating Authorization Policy
24432	Looking up user in Active Directory -
24355	LDAP fetch succeeded -
24416	User's Groups retrieval from Active Directory succeeded -
15048	Queried PIP - ExternalGroups
15016	Selected Authorization Profile - PermitAccess
22081	Max sessions policy passed
22080	New accounting session created in Session cache
11002	Returned RADIUS Access-Accent

dentity Services Engine

Location	All Locations
NAS IPv4 Address	0.0.0
NAS Port Type	Virtual
Authorization Profile	PermitAccess
Response Time	7294 milliseconds

11002 Returned RADIUS Access-Accept

Other Attributes	
other Attributes	
ConfigVersionId	257
DestinationPort	1812
Protocol	Radius
NAS-Port	28672
Tunnel-Client-Endpoint	(tag=0)
CVPN3000/ASA/PIX7x-Tunnel- Group-Name	FTDAnyConnectVPN
OriginalUserName	jsmith
NetworkDeviceProfileId	b0699505-3150-4215-a80e-6753d45bf56c
IsThirdPartyDeviceFlow	false
CVPN3000/ASA/PIX7x-Client-Type	3
AcsSessionID	corbinise/322344084/1870108
SelectedAuthenticationIdentityStores	Internal Users
${\it Selected} Authentication Identity {\it Stores}$	All_AD_Join_Points
SelectedAuthenticationIdentityStores	Guest Users
AuthenticationStatus	AuthenticationPassed
IdentityPolicyMatchedRule	Default
AuthorizationPolicyMatchedRule	Allow ASA VPN connections if AD Group VPNusers
CDMCassianID	000000000000000000000000000000000000000

ululu Identity Services Engine

enseo		
	CPMSessionID	00000000000070005bbc08c3
	ISEPolicy SetName	VPN Users
	Identity Selection Matched Rule	Default
	StepLatency	14=7106
	AD-User-Resolved-Identities	jsmith@cohadley3.local
	AD-User-Candidate-Identities	jsmith@cohadley3.local
	AD-User-Join-Point	COHADLEY3.LOCAL
	AD-User-Resolved-DNs	CN=John Smith, CN=Users, DC=cohadley3, DC=local
	AD-User-DNS-Domain	cohadley3.local

AD-User-NetBios-Name	COHADLEY3
IsMachineIdentity	false
UserAccountControl	66048
AD-User-SamAccount-Name	jsmith
AD-User-Qualified-Name	jsmith@cohadley3.local
DTLSSupport	Unknown
Network Device Profile	Cisco
Location	Location#All Locations
Device Type	Device Type#All Device Types
IPSEC	IPSEC#Is IPSEC Device#No
ExternalGroups	S-1-5-21-872014162-156988481-842954196-1121
IdentityAccessRestricted	false
RADIUS Username	jsmith
Device IP Address	
Called-Station-ID	
CiscoAVPair	audit-session-id=0000000000000005bbc08c3, ip:source-lp= coa-push=true

Cliente VPN de AnyConnect

Pacote do DARDO

Como recolher o pacote do DARDO para AnyConnect

Troubleshooting

DNS

Verifique que Cisco ISE, FTD, Windows Server 2012, e PCes de Windows/Mac pode toda a resolução para a frente e o reverso (verificação DNS em todos os dispositivos)

PC Windows

Lance um comando prompt, e certifique-se que você pode executar um "nslookup" no hostname do FTD

FTD CLI

```
> system support diagnostic-cli
Attaching to Diagnostic CLI ... Press 'Ctrl+a then d' to detach.
ciscofp3> enable
Password: <hit enter>
ciscofp3# terminal monitor
ciscofp3# debug webvpn anyconnect 255
<hit Connect on Anyconnect client on PC>
http_parse_cstp_method()
... input: 'CONNECT /CSCOSSLC/tunnel HTTP/1.1'
webvpn_cstp_parse_request_field()
...input: 'Host: ciscofp3.cisco.com'
Processing CSTP header line: 'Host: ciscofp3.cisco.com'
webvpn_cstp_parse_request_field()
... input: 'User-Agent: Cisco AnyConnect VPN Agent for Windows 4.6.03049'
Processing CSTP header line: 'User-Agent: Cisco AnyConnect VPN Agent for Windows 4.6.03049'
Setting user-agent to: 'Cisco AnyConnect VPN Agent for Windows 4.6.03049'
webvpn_cstp_parse_request_field()
...input: 'Cookie: webvpn=2B0E85@28672@6501@2FF4AE4D1F69B98F26E8CAD62D5496E5E6AE5282'
Processing CSTP header line: 'Cookie:
webvpn=2B0E85@28672@6501@2FF4AE4D1F69B98F26E8CAD62D5496E5E6AE5282'
Found WebVPN cookie: 'webvpn=2B0E85@28672@6501@2FF4AE4D1F69B98F26E8CAD62D5496E5E6AE5282'
WebVPN Cookie: 'webvpn=2B0E85@28672@6501@2FF4AE4D1F69B98F26E8CAD62D5496E5E6AE5282'
webvpn_cstp_parse_request_field()
...input: 'X-CSTP-Version: 1'
Processing CSTP header line: 'X-CSTP-Version: 1'
webvpn_cstp_parse_request_field()
... input: 'X-CSTP-Hostname: jsmith-PC'
Processing CSTP header line: 'X-CSTP-Hostname: jsmith-PC'
Setting hostname to: 'jsmith-PC'
webvpn_cstp_parse_request_field()
...input: 'X-CSTP-MTU: 1399'
Processing CSTP header line: 'X-CSTP-MTU: 1399'
webvpn_cstp_parse_request_field()
... input: 'X-CSTP-Address-Type: IPv6, IPv4'
Processing CSTP header line: 'X-CSTP-Address-Type: IPv6, IPv4'
webvpn_cstp_parse_request_field()
...input: 'X-CSTP-Local-Address-IP4: 198.51.100.2'
Processing CSTP header line: 'X-CSTP-Local-Address-IP4: 198.51.100.2'
webvpn_cstp_parse_request_field()
...input: 'X-CSTP-Base-MTU: 1500'
Processing CSTP header line: 'X-CSTP-Base-MTU: 1500'
webvpn_cstp_parse_request_field()
... input: 'X-CSTP-Remote-Address-IP4: 203.0.113.2'
Processing CSTP header line: 'X-CSTP-Remote-Address-IP4: 203.0.113.2'
webvpn_cstp_parse_request_field()
... input: 'X-CSTP-Full-IPv6-Capability: true'
Processing CSTP header line: 'X-CSTP-Full-IPv6-Capability: true'
webvpn_cstp_parse_request_field()
... input: 'X-DTLS-Master-Secret:
1FA92A96D5E82C13CB3A5758F11371EE6B54C6F36F0A8DCE8F4DECB73A034EEF4FE95DA614A5872E1EE5557C3BF4765A
Processing CSTP header line: 'X-DTLS-Master-Secret:
1FA92A96D5E82C13CB3A5758F11371EE6B54C6F36F0A8DCE8F4DECB73A034EEF4FE95DA614A5872E1EE5557C3BF4765A
webvpn_cstp_parse_request_field()
...input: 'X-DTLS-CipherSuite: DHE-RSA-AES256-GCM-SHA384:DHE-RSA-AES256-SHA256:DHE-RSA-AES256-
SHA:DHE-RSA-AES128-GCM-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES1
SHA: DES-CBC3-SHA'
Processing CSTP header line: 'X-DTLS-CipherSuite: DHE-RSA-AES256-GCM-SHA384:DHE-RSA-AES256-
```

SHA256:DHE-RSA-AES256-SHA:DHE-RSA-AES128-GCM-SHA256:DHE-RSA-AES128-SHA256-SHA256-SHA256-SHA256-SHA256-SHA256-SHA256-SHA256-SHA256-SHA256-SHA256-SHA256-SHA256-SHA256-SHA SHA: AES256-SHA: AES128-SHA: DES-CBC3-SHA' webvpn_cstp_parse_request_field() ... input: 'X-DTLS-Accept-Encoding: lzs' Processing CSTL header line: 'X-DTLS-Accept-Encoding: lzs' webvpn_cstp_parse_request_field() ... input: 'X-DTLS-Header-Pad-Length: 0' webvpn_cstp_parse_request_field() ... input: 'X-CSTP-Accept-Encoding: lzs, deflate' Processing CSTP header line: 'X-CSTP-Accept-Encoding: lzs,deflate' webvpn_cstp_parse_request_field() ...input: 'X-CSTP-Protocol: Copyright (c) 2004 Cisco Systems, Inc.' Processing CSTP header line: 'X-CSTP-Protocol: Copyright (c) 2004 Cisco Systems, Inc.' cstp_util_address_ipv4_accept: address asigned: 192.168.10.50 cstp_util_address_ipv6_accept: No IPv6 Address np_svc_create_session(0x7000, 0x00002acdff1d6440, TRUE) webvpn_svc_np_setup SVC ACL Name: NULL SVC ACL ID: -1 vpn_put_uauth success for ip 192.168.10.50! No SVC ACL Iphdr=20 base-mtu=1500 def-mtu=1500 conf-mtu=1406 tcp-mss = 1460path-mtu = 1460 (mss)TLS Block size = 16, version = 0x303mtu = 1460(path-mtu) - 0(opts) - 5(ssl) - 16(iv) = 1439 mod-mtu = 1439(mtu) & 0xfff0(complement) = 1424 tls-mtu = 1424(mod-mtu) - 8(cstp) - 48(mac) - 1(pad) = 1367 DTLS Block size = 16 mtu = 1500(base-mtu) - 20(ip) - 8(udp) - 13(dtlshdr) - 16(dtlsiv) = 1443 mod-mtu = 1443(mtu) & 0xfff0(complement) = 1440 dtls-mtu = 1440(mod-mtu) - 1(cdtp) - 20(mac) - 1(pad) = 1418 computed tls-mtu=1367 dtls-mtu=1418 conf-mtu=1406 DTLS enabled for intf=3 (outside) overide computed dtls-mtu=1418 with conf-mtu=1406 tls-mtu=1367 dtls-mtu=1406 SVC: adding to sessmgmt Sending X-CSTP-MTU: 1367 Sending X-DTLS-MTU: 1406 Sending X-CSTP-FW-RULE msgs: Start Sending X-CSTP-FW-RULE msgs: Done Sending X-CSTP-Quarantine: false Sending X-CSTP-Disable-Always-On-VPN: false Sending X-CSTP-Client-Bypass-Protocol: false > system support diagnostic-cli Attaching to Diagnostic CLI ... Press 'Ctrl+a then d' to detach. ciscofp3> enable Password: <hit enter> ciscofp3# terminal monitor ciscofp3# debug webvpn anyconnect 255 <hit Connect on Anyconnect client on PC> http_parse_cstp_method() ...input: 'CONNECT /CSCOSSLC/tunnel HTTP/1.1' webvpn_cstp_parse_request_field() ...input: 'Host: ciscofp3.cisco.com' Processing CSTP header line: 'Host: ciscofp3.cisco.com' webvpn_cstp_parse_request_field() ...input: 'User-Agent: Cisco AnyConnect VPN Agent for Windows 4.6.03049' Processing CSTP header line: 'User-Agent: Cisco AnyConnect VPN Agent for Windows 4.6.03049' Setting user-agent to: 'Cisco AnyConnect VPN Agent for Windows 4.6.03049' webvpn_cstp_parse_request_field()

```
...input: 'Cookie: webvpn=2B0E85@28672@6501@2FF4AE4D1F69B98F26E8CAD62D5496E5E6AE5282'
Processing CSTP header line: 'Cookie:
webvpn=2B0E85@28672@6501@2FF4AE4D1F69B98F26E8CAD62D5496E5E6AE5282'
Found WebVPN cookie: 'webvpn=2B0E85@28672@6501@2FF4AE4D1F69B98F26E8CAD62D5496E5E6AE5282'
WebVPN Cookie: 'webvpn=2B0E85@28672@6501@2FF4AE4D1F69B98F26E8CAD62D5496E5E6AE5282'
webvpn_cstp_parse_request_field()
...input: 'X-CSTP-Version: 1'
Processing CSTP header line: 'X-CSTP-Version: 1'
webvpn_cstp_parse_request_field()
... input: 'X-CSTP-Hostname: jsmith-PC'
Processing CSTP header line: 'X-CSTP-Hostname: jsmith-PC'
Setting hostname to: 'jsmith-PC'
webvpn_cstp_parse_request_field()
 ...input: 'X-CSTP-MTU: 1399'
Processing CSTP header line: 'X-CSTP-MTU: 1399'
webvpn_cstp_parse_request_field()
... input: 'X-CSTP-Address-Type: IPv6, IPv4'
Processing CSTP header line: 'X-CSTP-Address-Type: IPv6, IPv4'
webvpn_cstp_parse_request_field()
...input: 'X-CSTP-Local-Address-IP4: 198.51.100.2'
Processing CSTP header line: 'X-CSTP-Local-Address-IP4: 198.51.100.2'
webvpn_cstp_parse_request_field()
...input: 'X-CSTP-Base-MTU: 1500'
Processing CSTP header line: 'X-CSTP-Base-MTU: 1500'
webvpn_cstp_parse_request_field()
...input: 'X-CSTP-Remote-Address-IP4: 203.0.113.2'
Processing CSTP header line: 'X-CSTP-Remote-Address-IP4: 203.0.113.2'
webvpn_cstp_parse_request_field()
... input: 'X-CSTP-Full-IPv6-Capability: true'
Processing CSTP header line: 'X-CSTP-Full-IPv6-Capability: true'
webvpn_cstp_parse_request_field()
... input: 'X-DTLS-Master-Secret:
1 \texttt{FA92A96D5} \texttt{E82C13CB3A5758F11371} \texttt{EE6B54C6F36F0A8DC} \texttt{E8F4DECB73A034} \texttt{EEF4FE95DA614A5872} \texttt{E1EE5557C3BF4765A} \texttt{EF4FE95DA614A5872} \texttt{E1EE5557C3BF4765A} \texttt{E1E5557C3BF4765A} \texttt{E1E555757C3BF4765A} \texttt{E1E555757C3BF4765A} \texttt{E1E555757C3BF4765A} \texttt{E1E555757C3BF4765A} \texttt{E1E555757C3BF4765A} \texttt{E1E555757C3BF4765A} \texttt{E1E555757C3BF4765A} \texttt{E1E555757C3BF47655} \texttt{E1E555757} \texttt{E1E555757} \texttt{E1E5557575} \texttt{E1E5557575} \texttt{E1E555757} \texttt{E1E5557575} \texttt{E1E5557575} \texttt{E1E55557575} 
Processing CSTP header line: 'X-DTLS-Master-Secret:
1 \texttt{FA92A96D5} \texttt{E82C13CB3A5758F11371} \texttt{EE6B54C6F36F0A8DC} \texttt{E8F4DECB73A034} \texttt{EEF4FE95DA614A5872} \texttt{E1EE5557C3BF4765A} \texttt{EF4FE95DA614A5872} \texttt{E1EE5557C3BF4765A} \texttt{E1E5557C3BF4765A} \texttt{E1E555757C3BF4765A} \texttt{E1E555757C3BF4765A} \texttt{E1E555757C3BF4765A} \texttt{E1E555757C3BF4765A} \texttt{E1E555757C3BF4765A} \texttt{E1E555757C3BF4765A} \texttt{E1E555757C3BF4765A} \texttt{E1E555757C3BF47655} \texttt{E1E555757} \texttt{E1E555757} \texttt{E1E5557575} \texttt{E1E5557575} \texttt{E1E555757} \texttt{E1E5557575} \texttt{E1E5557575} \texttt{E1E55557575} 
webvpn_cstp_parse_request_field()
...input: 'X-DTLS-CipherSuite: DHE-RSA-AES256-GCM-SHA384:DHE-RSA-AES256-SHA256:DHE-RSA-AES256-
SHA:DHE-RSA-AES128-GCM-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES1
SHA: DES-CBC3-SHA'
Processing CSTP header line: 'X-DTLS-CipherSuite: DHE-RSA-AES256-GCM-SHA384:DHE-RSA-AES256-
SHA256:DHE-RSA-AES256-SHA:DHE-RSA-AES128-GCM-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256-SHA256-SHA256-SHA256-SHA256-SHA256-SHA256-SHA256-SHA256-SHA256-SHA256-SHA256-SHA256-SHA256-SHA
SHA:AES256-SHA:AES128-SHA:DES-CBC3-SHA'
webvpn_cstp_parse_request_field()
...input: 'X-DTLS-Accept-Encoding: lzs'
Processing CSTL header line: 'X-DTLS-Accept-Encoding: lzs'
webvpn_cstp_parse_request_field()
...input: 'X-DTLS-Header-Pad-Length: 0'
webvpn_cstp_parse_request_field()
... input: 'X-CSTP-Accept-Encoding: lzs, deflate'
Processing CSTP header line: 'X-CSTP-Accept-Encoding: lzs,deflate'
webvpn_cstp_parse_request_field()
...input: 'X-CSTP-Protocol: Copyright (c) 2004 Cisco Systems, Inc.'
Processing CSTP header line: 'X-CSTP-Protocol: Copyright (c) 2004 Cisco Systems, Inc.'
cstp_util_address_ipv4_accept: address asigned: 192.168.10.50
cstp_util_address_ipv6_accept: No IPv6 Address
np_svc_create_session(0x7000, 0x00002acdff1d6440, TRUE)
webvpn_svc_np_setup
SVC ACL Name: NULL
SVC ACL ID: -1
vpn_put_uauth success for ip 192.168.10.50!
No SVC ACL
Iphdr=20 base-mtu=1500 def-mtu=1500 conf-mtu=1406
```

```
tcp-mss = 1460
path-mtu = 1460 (mss)
TLS Block size = 16, version = 0x303
mtu = 1460(path-mtu) - 0(opts) - 5(ssl) - 16(iv) = 1439
mod-mtu = 1439(mtu) & 0xfff0(complement) = 1424
tls-mtu = 1424(mod-mtu) - 8(cstp) - 48(mac) - 1(pad) = 1367
DTLS Block size = 16
mtu = 1500(base-mtu) - 20(ip) - 8(udp) - 13(dtlshdr) - 16(dtlsiv) = 1443
mod-mtu = 1443(mtu) & 0xfff0(complement) = 1440
dtls-mtu = 1440(mod-mtu) - 1(cdtp) - 20(mac) - 1(pad) = 1418
computed tls-mtu=1367 dtls-mtu=1418 conf-mtu=1406
DTLS enabled for intf=3 (outside)
overide computed dtls-mtu=1418 with conf-mtu=1406
tls-mtu=1367 dtls-mtu=1406
SVC: adding to sessmgmt
Sending X-CSTP-MTU: 1367
Sending X-DTLS-MTU: 1406
Sending X-CSTP-FW-RULE msgs: Start
Sending X-CSTP-FW-RULE msgs: Done
Sending X-CSTP-Quarantine: false
Sending X-CSTP-Disable-Always-On-VPN: false
Sending X-CSTP-Client-Bypass-Protocol: false
ISE CLI:
> system support diagnostic-cli
Attaching to Diagnostic CLI ... Press 'Ctrl+a then d' to detach.
ciscofp3> enable
Password: <hit enter>
ciscofp3# terminal monitor
ciscofp3# debug webvpn anyconnect 255
<hit Connect on Anyconnect client on PC>
http_parse_cstp_method()
... input: 'CONNECT /CSCOSSLC/tunnel HTTP/1.1'
webvpn_cstp_parse_request_field()
...input: 'Host: ciscofp3.cisco.com'
Processing CSTP header line: 'Host: ciscofp3.cisco.com'
webvpn_cstp_parse_request_field()
... input: 'User-Agent: Cisco AnyConnect VPN Agent for Windows 4.6.03049'
Processing CSTP header line: 'User-Agent: Cisco AnyConnect VPN Agent for Windows 4.6.03049'
Setting user-agent to: 'Cisco AnyConnect VPN Agent for Windows 4.6.03049'
webvpn_cstp_parse_request_field()
...input: 'Cookie: webvpn=2B0E85@28672@6501@2FF4AE4D1F69B98F26E8CAD62D5496E5E6AE5282'
Processing CSTP header line: 'Cookie:
webvpn=2B0E85@28672@6501@2FF4AE4D1F69B98F26E8CAD62D5496E5E6AE5282'
Found WebVPN cookie: 'webvpn=2B0E85@28672@6501@2FF4AE4D1F69B98F26E8CAD62D5496E5E6AE5282'
WebVPN Cookie: 'webvpn=2B0E85@28672@6501@2FF4AE4D1F69B98F26E8CAD62D5496E5E6AE5282'
webvpn_cstp_parse_request_field()
...input: 'X-CSTP-Version: 1'
Processing CSTP header line: 'X-CSTP-Version: 1'
webvpn_cstp_parse_request_field()
... input: 'X-CSTP-Hostname: jsmith-PC'
Processing CSTP header line: 'X-CSTP-Hostname: jsmith-PC'
Setting hostname to: 'jsmith-PC'
webvpn_cstp_parse_request_field()
...input: 'X-CSTP-MTU: 1399'
Processing CSTP header line: 'X-CSTP-MTU: 1399'
webvpn_cstp_parse_request_field()
... input: 'X-CSTP-Address-Type: IPv6, IPv4'
Processing CSTP header line: 'X-CSTP-Address-Type: IPv6, IPv4'
webvpn_cstp_parse_request_field()
...input: 'X-CSTP-Local-Address-IP4: 198.51.100.2'
```

```
Processing CSTP header line: 'X-CSTP-Local-Address-IP4: 198.51.100.2'
webvpn_cstp_parse_request_field()
 ...input: 'X-CSTP-Base-MTU: 1500'
Processing CSTP header line: 'X-CSTP-Base-MTU: 1500'
webvpn_cstp_parse_request_field()
 ...input: 'X-CSTP-Remote-Address-IP4: 203.0.113.2'
Processing CSTP header line: 'X-CSTP-Remote-Address-IP4: 203.0.113.2'
webvpn_cstp_parse_request_field()
... input: 'X-CSTP-Full-IPv6-Capability: true'
Processing CSTP header line: 'X-CSTP-Full-IPv6-Capability: true'
webvpn_cstp_parse_request_field()
 ... input: 'X-DTLS-Master-Secret:
1 \texttt{FA92A96D5} \texttt{E82C13CB3A5758F11371} \texttt{EE6B54C6F36F0A8DC} \texttt{E8F4DECB73A034} \texttt{EEF4FE95DA614A5872} \texttt{E1EE5557C3BF4765A} \texttt{EF4FE95DA614A5872} \texttt{E1EE5557C3BF4765A} \texttt{E1E5557C3BF4765A} \texttt{E1E555757C3BF4765A} \texttt{E1E555757C3BF4765A} \texttt{E1E555757C3BF4765A} \texttt{E1E555757C3BF4765A} \texttt{E1E555757C3BF4765A} \texttt{E1E555757C3BF4765A} \texttt{E1E555757C3BF4765A} \texttt{E1E555757C3BF47655} \texttt{E1E555757} \texttt{E1E555757} \texttt{E1E5557575} \texttt{E1E5557575} \texttt{E1E555757} \texttt{E1E5557575} \texttt{E1E5557575} \texttt{E1E55557575} 
Processing CSTP header line: 'X-DTLS-Master-Secret:
1FA92A96D5E82C13CB3A5758F11371EE6B54C6F36F0A8DCE8F4DECB73A034EEF4FE95DA614A5872E1EE5557C3BF4765A
webvpn_cstp_parse_request_field()
...input: 'X-DTLS-CipherSuite: DHE-RSA-AES256-GCM-SHA384:DHE-RSA-AES256-SHA256:DHE-RSA-AES256-
SHA:DHE-RSA-AES128-GCM-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES128-SHA:AES1
SHA: DES-CBC3-SHA'
Processing CSTP header line: 'X-DTLS-CipherSuite: DHE-RSA-AES256-GCM-SHA384:DHE-RSA-AES256-
SHA256:DHE-RSA-AES256-SHA:DHE-RSA-AES128-GCM-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256:DHE-RSA-AES128-SHA256-SHA256-SHA256-SHA256-SHA256-SHA256-SHA256-SHA256-SHA256-SHA256-SHA256-SHA256-SHA256-SHA256-SHA
SHA:AES256-SHA:AES128-SHA:DES-CBC3-SHA'
webvpn_cstp_parse_request_field()
... input: 'X-DTLS-Accept-Encoding: lzs'
Processing CSTL header line: 'X-DTLS-Accept-Encoding: lzs'
webvpn_cstp_parse_request_field()
 ... input: 'X-DTLS-Header-Pad-Length: 0'
webvpn_cstp_parse_request_field()
...input: 'X-CSTP-Accept-Encoding: lzs,deflate'
Processing CSTP header line: 'X-CSTP-Accept-Encoding: lzs,deflate'
webvpn_cstp_parse_request_field()
 ...input: 'X-CSTP-Protocol: Copyright (c) 2004 Cisco Systems, Inc.'
Processing CSTP header line: 'X-CSTP-Protocol: Copyright (c) 2004 Cisco Systems, Inc.'
cstp_util_address_ipv4_accept: address asigned: 192.168.10.50
cstp_util_address_ipv6_accept: No IPv6 Address
np_svc_create_session(0x7000, 0x00002acdff1d6440, TRUE)
webvpn_svc_np_setup
SVC ACL Name: NULL
SVC ACL ID: -1
vpn_put_uauth success for ip 192.168.10.50!
No SVC ACL
Iphdr=20 base-mtu=1500 def-mtu=1500 conf-mtu=1406
tcp-mss = 1460
path-mtu = 1460 (mss)
TLS Block size = 16, version = 0x303
mtu = 1460(path-mtu) - 0(opts) - 5(ssl) - 16(iv) = 1439
mod-mtu = 1439(mtu) & 0xfff0(complement) = 1424
tls-mtu = 1424(mod-mtu) - 8(cstp) - 48(mac) - 1(pad) = 1367
DTLS Block size = 16
mtu = 1500(base-mtu) - 20(ip) - 8(udp) - 13(dtlshdr) - 16(dtlsiv) = 1443
mod-mtu = 1443(mtu) & 0xfff0(complement) = 1440
dtls-mtu = 1440(mod-mtu) - 1(cdtp) - 20(mac) - 1(pad) = 1418
computed tls-mtu=1367 dtls-mtu=1418 conf-mtu=1406
DTLS enabled for intf=3 (outside)
overide computed dtls-mtu=1418 with conf-mtu=1406
tls-mtu=1367 dtls-mtu=1406
SVC: adding to sessmgmt
Sending X-CSTP-MTU: 1367
Sending X-DTLS-MTU: 1406
Sending X-CSTP-FW-RULE msgs: Start
Sending X-CSTP-FW-RULE msgs: Done
Sending X-CSTP-Quarantine: false
```

Sending X-CSTP-Disable-Always-On-VPN: false Sending X-CSTP-Client-Bypass-Protocol: false Windows Server 2012 Lance um comando prompt, e certifique-se que você pode executar um "nslookup" no hostname/FQDN do FTD

Certificate a força (para a compatibilidade do navegador)

Verifique Windows Server 2012 Certificados dos sinais como SHA256 ou mais altamente. Fazer duplo clique seu certificado CA raiz em Windows e verifique da "os campos do algoritmo assinatura"

R.	Ce	rtificate	x	
General	Details Certification Pat	h		
Show: <all></all>				
Field		Value	^	
Ve Se Sig	rsion rial number pature algorithm pature hash algorithm	V3 1f 0f b3 d5 46 a2 90 b2 46 18 sha256RSA sha256	=	

Se são SHA1, a maioria de navegadores mostrarão um aviso do navegador para aqueles Certificados. Para mudá-lo, você pode verificar aqui:

Como promover a autoridade de certificação de Windows Server a SHA256

Verifique que o certificado de servidor de VPN FTD tem os seguintes campos corretos (quando você conectar no navegador a FTD)

Common Name = <FTDFQDN>

Nome alternativo sujeito (SAN) = <FTDFQDN>

Exemplo:

Common Name: ciscofp3.cisco.com

Nome alternativo sujeito (SAN): DNS Name=cicscofp3.cisco.com

Conectividade e configuração de firewall

Verifique usando captações em FTD CLI e captações no PC do empregado usando Wireshark para verificar que os pacotes estão vindo sobre TCP+UDP 443 ao IP exterior do FTD. Verifique que aqueles pacotes são originado do endereço IP público do roteador home do empregado

ciscofp3# capture capin interface outside trace detail trace-count 100 match ip any host
<enduser'sPublicIPAddress>
<now hit Connect on AnyConnect Client from employee PC>
ciscofp3# show cap
capture capin type raw-data trace detail trace-count 100 interface outside [Buffer Full - 524153
bytes]

ciscofp3# show cap capin
2375 packets captured
1: 17:05:56.580994 198.51.100.2.55928 > 203.0.113.2.443: S 2933933902:2933933902(0) win 8192
<mss 1460,nop,wscale 8,nop,nop,sackOK>
2: 17:05:56.581375 203.0.113.2.443 > 198.51.100.2.55928: S 430674106:430674106(0) ack 2933933903
win 32768 <mss 1460>
3: 17:05:56.581757 198.51.100.2.55928 > 203.0.113.2.443: . ack 430674107 win 64240
...