Configuración de VPN Client 3.x para Obtener un Certificado Digital

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Introducción

Este documento muestra cómo configurar el Cisco VPN Client 3.x para conseguir un certificado digital.

Prerequisites

Requirements

No hay requisitos específicos para este documento.

Componentes Utilizados

La información de este documento se basa en una PC que ejecuta Cisco VPN Client 3.x.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Convenciones

Consulte <u>Convenciones de Consejos TécnicosCisco para obtener más información sobre las</u> <u>convenciones del documento.</u>

Configure el cliente VPN

Complete estos pasos para configurar el VPN Client.

 Seleccione Inicio > Programas > Cisco Systems Inc. VPN client > Administrador de certificados para iniciar VPN Client Certificate Manager.



2. Seleccione la ficha Certificados personales y haga clic en

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Enr	ollment requests are	A) is an urganiza certificate reque	ete that a CA has	uet to approve	
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Pe	ersonal Certificates	CA Certificates	Enrollment Requ	uests	-
1	Certificate		Store		
	Stores: ZAIN	-	New	Options 💌	
			<u>H</u> em	Obuous) .	

Los certificados de equipo para autenticar usuarios para conexiones VPN no se pueden realizar con IPsec.

3. Cuando el cliente VPN le pida una contraseña, especifique una contraseña para proteger el certificado. Cualquier operación que requiera acceso a la clave privada del certificado requiere la contraseña especificada para

Cer	tificate Password Pr	otection	×
	Cisco Systems	Password protecting your certificate provides an additional level of security. This password is optional. By choosing to protect your certificate with a password, any operation that requires access to the certificate's private key will require the specified password to continue.	
		Note - File based enrollments require the password used here to be re-entered when the approved certificate is imported. Password: Confirmation Password:	
continuar.		Back <u>N</u> ext > Cancel Help	

 Seleccione Archivo para solicitar un certificado utilizando el formato PKCS #10 en la página Inscripción. Luego haga clic en Next (Siguiente).

CISCO SYSTEMS	 The enrollment wizard allows you to request a personal identity certificate from a Certificate Authority (CA). Network based enrollment allows you to connect directly to a CA over a network connection. File based enrollment will produce a certificate request file which you need to submit to your administrator.
	Please select the method you wish to proceed with: Enrollment type: Network Elie
	Pack Nouth I Holp

5. Haga clic en **Examinar** y especifique un nombre de archivo para el archivo de solicitud de certificad<u>o. Para el tipo de archivo, seleccione **PEM Encoding Request File (*.req)** y haga clic</u>

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My Compu	ter 📓	lient5.req		
My Networ	k Places			
iazib				
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6. Haga clic en **Next** en la página VPN Client Enrollment.



7. Rellene los campos del formulario de inscripción.Este ejemplo muestra los campos:Nombre común = Usuario1Departamento = IPSECCERT (debe coincidir con la unidad organizativa (OU) y el nombre del grupo en el concentrador VPN 3000).Empresa = Cisco SystemsEstado = Carolina del NortePaís = EE. UU.Correo electrónico = User1@email.comDirección IP = (opcional; se utiliza para especificar la dirección IP en la solicitud de certificado)Dominio = cisco.comHaga clic en Siguiente cuando haya terminado.

0	Enter your certificate e provided below.	enrollment information in the fields
CISCO SYSTEMS	Common Name (cn):*	User1
and house all house	Department (ou):	IPSECCERT
	C <u>o</u> mpany (o):	Cisco Systems
	<u>S</u> tate (st):	NorthCarolina
	Co <u>u</u> ntry (c):	US
	<u>E</u> mail (e):	User1@email.com
$\square \Lambda$	IP Address:	
	Do <u>m</u> ain:	cisco.com
		* Required Field
· · · · · · · · · · · · · · · · · · ·		" Required Field

8. Haga clic en **Finalizar** para continuar con la inscripción.

Enrollment - Summary	×
CISCO SYSTEMS	This is a summary of the information you have provided for this certificate enrollment request. Select Finish to proceed with the enrollment or Back to make modifications.
	Enrollment: File - client5.req Certificate Store: Cisco Common Name: User1 Department: IPSECCERT Company: Cisco Systems State: NorthCarolina Country: US Email: User1@email.com IP Address: Domain: cisco.com
< <u>I</u>	<u>3</u> ack Finish Cancel Help

9. Seleccione la pestaña Solicitudes de inscripción para verificar la solicitud en el Administrador de certificados de cliente

B	1	
Per are	sonal certificates identify you to peop signed by a certificate authority.	e and hosts you communicate with a
٩c	ertificate authority (CA) is an organiza	tion that issues certificates.
En	ollment requests are certificate reque:	sts that a CA has yet to approve.
Ρ	ersonal Certificates CA Certificates	Enrollment Requests
2	Certificate	Store
12		Bequest
9		
2		<u>Options</u>
2		<u>Options</u>
		<u>Options</u>

- 10. Active el servidor de la Autoridad de certificación (CA) y las interfaces del cliente VPN simultáneamente para enviar la solicitud.
- 11. Seleccione Request a certificate y haga clic en Next en el servidor de la

File Edit View Favories Tack Heb	
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Back Skop Retents Hone Search Farceles Histon Mail Part	▼ w∂tio lite
Allowing MC MERLING HIGH WARRANGE	∑ t•∞ a
Microsoft Cartificate Services — ves2ksarver	Bans
Welcome	
You use this web site to request a certificate for your web browser, e-mail client, or other secure pro- will be able to securely identify yourself to other people over the web, sign your e-mail messages, en depending upon the type of certificate you request.	gram. Once you acquire a certificate, you crypt your e-mail messages, and more
Select a task: C Retrieve the CA certificate or certificate revocation list	
 Request a certificate Charles a settificate 	
Conection a periodic see	
	Next 3
Dose	👩 Internet

12. Seleccione Solicitud avanzada para el tipo de solicitud y haga clic en

Precipion Centricate Services - Manosoft Internet Explorer	
Elle Edit View Favorites Ioola Help	
Back Friverd Stop Refesh Home Search Favorites History Mail Pint	
Address 🕘 Mtp://192.168.2.50/ce#strv/ceftrgus.asp	▼ 🖓 Go Links
Microsoff Cartificate Services win2kserver	llome
Choose Request Type	
Please select the type of request you would like to make:	
C User certificate request.	
Web Browster Cembude E-Mail Protection Certificate	
Advanced request	
	Mexts
	Next>
	Next>
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	Next>
	Next>
	Nigot >
	Nigut>

13. Seleccione Enviar una solicitud de certificado utilizando un archivo PKCS #10 codificado en base64 o una solicitud de renovación utilizando un archivo PKCS #7 codificado en base64 en Solicitudes de certificado avanzadas y, a continuación, haga clic en

Siguiente.

Microsoft Certificate Services - Microsoft Internet Explorer	
Elle Edit View Fyvankes Iools Help	
Back Tronverd Stop Reflects Home Search Ferrorites History Mail Print	
ditess 🜒 http://192.168.2.50/cetruv/cetrgad.arp	💌 🔗 Go 🛛 Linka
Microsoft Cadificate Services win2kserver	Heme
idvanced Certificate Requests	
ou can request a certificate for yourself, another user, or a computer using one of the following methods. Note uthority (CA) will determine the certificates that you can obtain.	e that the policy of the certification
Submit a certificate request using a base64 encoded PKCS #10 file or a renewal request using a base64	encoded PKCS #7 file.
Request a certificate for a smart card on behalf of another user using the Smart Card Enrollment Station. You must have an enrollment agent certificate to submit a request for another user.	
	Next >
Done	Internet

 Resalte el archivo de solicitud de VPN Client y péguelo en el servidor de la CA bajo Solicitud guardada. A continuación, haga clic en Enviar.

Microsoft Certificate Services - Hicrosoft Internet Explorer	_ 8 ×
Elle Edit View Favorites Iools Help	
Sack Fringer Stop Reflect Home Search Fevories History Mail Pint	
Address D http://192.168.2.50/cettury/cettigut.asp	💌 ∂ Go Linka *
ANCROSON Latitizes Senices - weaksener	toms
Submit A Saved Request	
Server) into the request field to submit the request to the certification authority (CA). Saved Request Base64 Encoded Certificate Request (PKCS #10 or #7): Etcarse for a file to insert. Server for a file to insert.	
Additional Attributes:	
Attributes	
	Submit >
1 Done	internet

15. En el servidor de la CA, ejecute el certificado de identidad para la solicitud del cliente VPN.

Tree	Request ID	Binary Request	Request Dis	position Message	Request Submission Date	Requester Name	Request Country
Certification Authority (Local)		BEGEN NF	Al Tasks Refresh Help	Issue Deny	3/23/2001 9:13 AM	GHOST2KUUSR	US

16. Descargue los certificados raíz e identidad al VPN Client. En el servidor de la CA, seleccione **Comprobar un certificado pendiente** y, a continuación, haga clic en **Siguiente**.

Microsoft Certificate Services jfrahim-pc	Ho
Welcome	
You use this web site to request a certificate for your web browser, e-mail client, or other secure program. Once you acquire a certifi will be able to securely identify yourself to other people over the web, sign your e-mail messages, encrypt your e-mail messages, and depending upon the type of certificate you request.	cate, you d more
Select a task:	
C Retrieve the CA certificate or certificate revocation list	
○ Request a certificate	
Check on a pending certificate	
	Next>

17. Seleccione **Base 64 codificada**. A continuación, haga clic en **Descargar certificado de CA** en el servidor de la

Microsoft Certificate Services įfrahim-pc						Home
Certificate Issued						
The certificate you requested was issu C DER encoded or C Ba Download CA certificate Download CA certification	ed to you File Country Sering cennew of Estimated Download Transfer re P Close 1	ad Save As Save In: Pistory Desktop Desktop	My Document My Computer My Network P Cares jazb	s faces	← 值 ² □·	<u> 1</u> ×
		My Network P	File name:	client_cert.cer		Save
			Address of the	Theorem Celoncade		Cana

 Seleccione un archivo para descargar de la página Recuperar el certificado de la CA o Lista de revocación de certificados para obtener el certificado raíz en el servidor de la CA. Luego haga clic en Next (Siguiento)

Microsoft Certific	cate Services – Jfrahim-pc							Heme
Retrieve The (CA Certificate Or Certi	ficate Rev	ocation List					
Install this CA c It is not necess because the C	ertification path to allow ary to manually install th A certification path will t	your comp	uter to trust c	ertificates issu	ued from this co	ertification	authority. n this certificati	on authority,
CA Certificate	Current [(rahim-pc(2)) Previous [(rahim-pc(2)) Previous [(rahim-pc)) C DER encoded or Download CA certifica Download CA certifica Download latest certifica	Saving certnew.cor Estimated tr Download tr Transfer sab	Save As Save in: History Desktop My Documents	Desktop My Documents My Computer My Network Pla cases jazb ypn client_cert.cer	ces	 	+ 1 0	<u>.</u>
			My Computer	File name Save as type:	client_root_cert.cer Security Certificate	6	×	Save Cancel

19. Seleccione Certificate Manager > CA Certificate > Import on the VPN Client y luego seleccione el archivo raíz CA para instalar los certificados raíz e identidad.

	Open	<u> </u>
ization that issues certificates. uests that a CA has yet to approve.	Look in: M Desktop	· * # * ···
s Enrolment Requests Store	My Documents My Computer My Computer My Network Places cases jazib ypn	
CISCO SYSTEMS CISCO SYSTEMS CISCO SYSTEMS Control Innovation Certifica	File name: client_root_cert.cer Files of type: X.509 DER Files (*.der;*.cer)	Open Cancel
File:	Browse	
	Next> Cancel Help	

20. Seleccione Administrador de certificados > Certificados personales > Importar y elija el archivo de certificado de identidad.

Import Certificate - So	irce		×
CISCO SYSTEMS	The certificate source is imported from. Addition importing is protected by below. Certificate source: — Microsoft certification File: Import password:	dentifies where the certi ally, if the certifcate you y a password, please er ate:	ficate is are iter it
Open Look in: Mesktop	Back Next >	Cancel	Help ?×
My Documents My Computer My Network Places cases jazib ypn	client_cert.cer		
File name: client_c	ert.cer ER Files (*.der;*.cer)		Open Cancel

21. Asegúrese de que el certificado de identidad aparece en la ficha Certificados

1			
F	Personal certificates identify are signed by a certificate a	y you to people and hosts you communical authority.	te with and
1	A certificate authority (CA) i	s an organization that issues certificates.	
F	Enrollment requests are cer	tificate requests that a CA has yet to appro	ove.
	Personal Certificates	Certificates Enrollment Requests	
	Certificate	Store	
	User5	Cisco	
	Stores: LAIN	Nou	ions -
	Stores: <all></all>	<u>N</u> ew <u>□</u> p	tions 🔻
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22. Asegúrese de que el certificado raíz aparece en la ficha Certificados de

at issues certificates.
a CA has yet to approve.
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Verificación

Actualmente, no hay un procedimiento de verificación disponible para esta configuración.

Troubleshoot

Cuando intenta inscribirse en Microsoft CA Server, puede generar este mensaje de error.

Initiating online request Generating key pair Generating self-signed Certificate Initiating online request Received a response from the CA Your certificate request was denied Si recibe este mensaje de error, consulte los registros de CA de Microsoft para obtener más información o consulte estos recursos para obtener más información.

- Windows no puede encontrar una autoridad de certificados que procese la solicitud
- <u>XCCC: Se produce un mensaje de error "Se denegó su solicitud de certificado" al solicitar un certificado para conferencias seguras</u>

Información Relacionada

- Negociación IPSec/Protocolos IKE
- Soporte Técnico y Documentación Cisco Systems