配置VPN客戶端3.x以獲取數位證書

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<u>簡介</u>

本文檔演示如何配置Cisco VPN客戶端3.x以獲取數位證書。

必要條件

<u>需求</u>

本文件沒有特定需求。

<u>採用元件</u>

本檔案中的資訊是根據執行Cisco VPN Client 3.x的PC。

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除(預設))的組態來啟動。如果您的網路正在作用,請確保您已瞭解任何指令可能造成的影響。

<u>慣例</u>

如需文件慣例的詳細資訊,請參閱<u>思科技術提示慣例。</u>

配置VPN客戶端

完成以下步驟以配置VPN客戶端。

1. 選擇Start > Programs > Cisco Systems Inc. VPN client > Certificate Manager以啟動VPN Client Certificate Manager。

	3				Accessories	•	
	6				Startup	•	
Rec	:ycle Bin	į.		e	Internet Explorer		
				5	Outlook Express		
- 8				C	Microsoft Outlook		
	anci mar				Boson Software		
		N			PGP		
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	Start	🖸 🤤 🖸 🚫	O		Napster	•	Uninstall VPN Client
				6	Cisco Systems Inc. VPN Client	D C	VPN Dialer

2. 選擇個人證書頁籤,然後按一下**新建**。

Personal certificates identify you to people and hosts you communicate with and are signed by a certificate authority. A certificate authority (CA) is an organization that issues certificates. Enrollment requests are certificate requests that a CA has yet to approve. Personal Certificates CA Certificates Enrollment Requests Certificate	Cisco Systems VPN (lient Certificate Manager	×
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Import	Import		

使用IPsec完成對VPN連線的使用者進行身份驗證的電腦證書。

 當VPN客戶端提示您輸入密碼時,請指定密碼以保護證書。任何需要訪問證書私鑰的操作都需 要指定的密碼才能繼續。

	Password protecting your certificate provides an additional level of security. This password is optional.
CISCO SYSTEMS	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:
S. O. A	Confirmation Password:
	< <u>B</u> ack <u>N</u> ext > Cancel Help
 Enrollment頁面上選擇	 摹 File 以使用PKCS #10格式請求證書。然後按一下 Next 。
nrollment - Network	or File

10	I he enrollment wizard allows you to reque: identity certificate from a Certificate Author	st a personal ity (CA).
CISCO SYSTEMS	Network based enrollment allows you to co to a CA over a network connection.	onnect directly
en de la anelia anelia de la	File based enrollment will produce a certific file which you need to submit to your admir	ate request histrator.
	Please select the method you wish to proc	eed with:
5	Enrollment type:	
	C Network	
	• File	
<	<u>B</u> ack <u>N</u> ext> Cancel	Help

5. 按一下「Browse」,並為憑證請求檔案指定檔案名稱。對於檔案型別,選擇PEM Encoded Request File(*.req),然後按一下Save。

Save As			? ×
Save in: 🚺	Desktop	- + 🖻 e	* 💷 •
My Docume My Comput My Networ Cases	ents e client2.req ter <mark>client5.req</mark> k Places		
File name:	client5.req		Save
Save as type:	PEM Encoded Request File (*.)	req)	Cancel

6. 在VPN Client Enrollment頁面上按一下Next。

-	To create an enrollment request file, please select the type of file you wish to generate.
CISCO SYSTEMS	Contact your network administrator if you are not sure which encoded file type is required.
adiilinaadiilina.	When you select a file extension in the Browse dialog the associated file type will be selected on this page.
	<u>File name: *</u>
	Elle tupe:
	Base 64 encoded (.req)
	C Bjnary encoded (.p10)
	* Required Field

7. 填寫登記表上的欄位。此範例顯示欄位:公用名=使用者1Department = IPSECCERT(這應與 VPN 3000 Concentrator上的組織單位(OU)和組名稱匹配。)公司=思科系統公司州=北卡羅萊 納州國家/地區=美國電子郵件= User1@email.comIP地址=(可選;用於指定證書請求上的IP地 址)域= cisco.com完成後按一下Next。

	provided below.	enroliment information in the neios
CISCO SYSTEMS	Common Name (cn):*	User1
And Instantilling .	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
	IP Address:	
	Do <u>m</u> ain:	cisco.com
		* Required Field
在一下 完成 繼續註冊。	< <u>B</u> ack <u>N</u> ext>	Cancel Help
在一下 完成繼續註冊。	< <u>B</u> ack <u>N</u> ext >	Cancel Help

K Back	Einish	Cancel	Heln
< <u>D</u> ack	FILISTI	Caricei	- nei

9. <u>選擇Enrollment Requests頁籤,在VPN客戶端證書管理器上檢查請求。</u>

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rsonal certificates identify you to peop signed by a certificate authority.	le and hosts you communicate with ar
certificate authority (CA) is an organiza	tion that issues certificates.
rollment requests are certificate reque	sts that a CA has yet to approve.
ersonal Certificates CA Certificates	Enrollment Requests
Certificate	Store
User5	Request
	<u>□</u> ptions ▼

10. 同時開啟證書頒發機構(CA)伺服器和VPN客戶端介面以提交請求。

11. 選擇Request a certificate,然後在CA伺服器上按一下Next。

Microsoft Certificate Services - Microsoft Internet Explorer	
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Bash	
Agdem (0) ktp://182169.250/cetur/	τ p ² Do Links
Microsoft CettReate Services - verQuarter	Hanse
Welcome	
You use this web site to request a certificate for your web browser, e-mail client, or other secure progra will be able to securely identify yourself to other people over the web, sign your e-mail messages, encry depending upon the type of certificate you request.	m. Once you acquire a certificate, you pt your e-mail messages, and more
Select a task: C Retrieve the CA certificate or certificate revocation list R Request a certificate C Check on a pending certificate	
	Next >

12. 為請求型別選擇Advanced request,然後按一下Next。

Microsoft Certificate Services - Microsoft Internet Explorer	_ 8 ×
Elle Edit View Favorites Icols Help	
Hone Search Fevories History Nail Print	
Address 🕘 http://192.168.2.50/cerkstv/cerkqus.asp	▼ c ² Go j Linka '
Microsoft Certificate Services - weiZkserver	llome
Choose Request Type	
Please select the type of request you would like to make:	
C User certificate request:	
Med Browser Dertificate E-Mail Protection Certificate	
Advanced request	
	Next>
B Done	internet

13. 在Advanced Certificate Requests下,選擇**Submit a certificate request using a base64** encoded PKCS #10 file or a renewal request using a base64 encoded PKCS #7 file,然後 按一下Next。

Intervention Intervention Intervention Intervention Interv	ی ک ^ی اور ارا کو certifica
Advanced Cetificate Requests Image: Cetificate Requests You can request a certificate for yourself, another user, or a compade using one of the following methods. Note that the policy of the certificate interview of another user, and another user, and another user using the small Card Enrolment Station. Image: Submit a certificate request to its CA using a form. Image: Submit a certificate request to adout a request for another user using the Small Card Enrolment Station. Image: Submit a certificate request to adout a request for another user. Image: Submit a certificate request to adout a request for another user. Image: Submit a certificate request to adout a request for another user. Image: Submit a certificate request to adout a request for another user. Image: Submit a certificate request to adout a request for another user. Image: Submit a certificate request to adout a request for another user. Image: Submit a certificate request to adout a request for another user. Image: Submit a certificate request to adout a request for another user. Image: Submit a certificate request to adout a request for another user. Image: Submit A Submit Area (Submit Area) Image: Submit A Submit Area) Image: Submit A Submit Area (Submit Area) Im	ti ne certifica
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15. 在CA伺服器上,為VPN客戶端請求頒發身份證書。

Certification Authority Action View ↓ ← → €					
Tree	Request ID Binary Request	Request Disposition Message	Request Submission Date	Requester Name	Request Country/
Certification Authority (Local) frahm-pc Revoked Certificates Ssued Certificates Pending Requests Failed Requests	EGN NG	Al Tasks > Issue Refresh Help	3/23/2001 9:13 AM	GHOST2KJUSR	US

16. 將根證書和身份證書下載到VPN客戶端。在CA伺服器上,選擇**Check on a pending**

<u>certificate,然後按一下Next。</u>

Microsoft Certificate Services jfrahim-pc Hom
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 certificate, you will be able to securely identify yourself to other people over the web, sign your e-mail messages, encrypt your e-mail messages, and more depending upon the type of certificate you request.
Select a task:
C Retrieve the CA certificate or certificate revocation list
C Request a certificate.
Check on a pending certificate
Next>

17. 選擇Base 64 encoded。然後按一下CA伺服器上的Download CA certificate。

Microsoft Certificate Services - jfrahim-pc						Home
Certificate Issued						
The certificate you requested was issued to yo C DER encoded or C Be Download CA certificate Download CA certification Saving Certification Control C	UL. Ibad Save As Save in: History History Desistop My Documents My Computer	Desktop My Documents My Computer My Network Pi Cases Jazb Vpn	aces	×	• = = = =-	21×
	My Network P	File name: Save as type:	client_cert.cer Security Certificate			Cancel
			Anna i di dana ani di ana			

18. 從Retrieve the CA Certificate or Certificate Revocation List頁選擇要下載的檔案,以獲取 CA伺服器上的根證書。然後按一下**Next**。

Microsoft Certific	ate Services - grahim-pc								Home
Microsoft Certific Retrieve The C Install this CA c It is not necessible because the C Choose file to	cate Services – frahm-pc CA Certificate Or Certification path to allow any to manually install th A certification path will to download:	ficate Rev your comp	vocation List	ertificates issi	ued from this ce	ertification	authority n this ce	/. rtificatio	Heme
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19. 選擇**Certificate Manager > CA Certificate > Import on the VPN Client**,然後選擇根CA檔案以 安裝根和身份證書。

	Open			? ×
ization that issues certificates.	Look in: 🚮 Desktop	• + #	•	•
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File:				
	Browse			
Import pase	word			
impor pass				
K Back	Next > Cancel Help			

20. 選擇Certificate Manager > Personal Certificates > Import,然後選擇身份證書檔案。

Import Certificate - So	ince X
CISCO SYSTEMS	The certificate source identifies where the certificate is imported from. Additionally, if the certificate you are importing is protected by a password, please enter it below. Certificate source: Microsoft certificate: File:
	Browse Import password: Back Next > Cancel
Open	?×
ti 🛛 Look in: 🚺 Desktop	
My Documents My Computer My Network Places cases jazib ypn	<pre>client_cert.cer Client_root_cert.cer</pre>
File name: client_c	ert.cer Open
Files of type: X 509 D	EB Files (* der * cer)
1.000 D	

21. 確保身份證書顯示在「個人證書」頁籤下。

e signed by a certificate at	uthority.
certificate authority (CA) is	an organization that issues certificates.
iroliment requests are cert	incate requests that a CA has yet to approve.
Personal Certificates CA	Certificates Enrollment Requests
Certificate	Store
User5	Cisco

22. 確保根證書顯示在CA Certificates頁籤下。

ertificate authority (CA) is an organizat	ion that issues certifica	tes.
rollment requests are	e certificate reques	ts that a CA has yet to	approve.
ersonal Certificates	CA Certificates	Enrollment Requests	
Certificate		Store	
jfrahim-pc		CA	

<u>驗證</u>

目前沒有適用於此組態的驗證程序。

<u>疑難排解</u>

嘗試向Microsoft CA Server註冊時,可能會生成此錯誤消息。

Initiating online request Generating key pair Generating self-signed Certificate Initiating online request Received a response from the CA Your certificate request was denied **如果您收到此錯誤消息,請參閱Microsoft CA日誌瞭解詳細資訊,或參閱這些資源瞭解詳細資訊。**

- Windows找不到處理請求的證書頒發機構
- XCCC:當您請求安全會議的證書時,會出現「Your Certificate Request was Denied」錯誤消息

相關資訊

- IPSec 協商/IKE 通訊協定
- 技術支援與文件 Cisco Systems