Ejemplo de Configuración de Túnel IPsec entre PIX 7.x y VPN 3000 Concentrator

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Introducción

Este documento proporciona una configuración de ejemplo de cómo establecer un túnel VPN IPsec de LAN a LAN entre un PIX Firewall 7.x y un Cisco VPN 3000 Concentrator.

Consulte Ejemplo de Configuración de PIX/ASA 7.x Enhanced Spoke-to-Client VPN con autenticación TACACS+ para obtener más información sobre el escenario en el que el túnel LANa-LAN entre los PIX también permite que un Cliente VPN acceda al PIX spoke a través del PIX hub.

Consulte <u>Ejemplo de Configuración de Túnel IPsec de LAN a LAN de PIX/ASA 7.x a un Router</u> <u>IOS</u> para obtener más información sobre la situación en la que se encuentra el túnel de LAN a LAN entre el PIX/ASA y un Router IOS.

Prerequisites

Requirements

Asegúrese de cumplir estos requisitos antes de intentar esta configuración:

 Este documento requiere una comprensión básica del protocolo IPSec Consulte <u>Introducción</u> <u>al Cifrado IPSec</u> para obtener más información sobre IPsec.

Componentes Utilizados

La información que contiene este documento se basa en las siguientes versiones de software y hardware.

- Cisco PIX 500 Series Security Appliance con la versión de software 7.1(1)
- Concentrador VPN 3060 de Cisco con versión de software 4.7.2(B)

Nota: PIX 506/506E no soporta 7.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.

Para configurar PIX 6.x, consulte <u>Túnel IPSec de LAN a LAN entre el Concentrador VPN 3000 de</u> <u>Cisco y Ejemplo de Configuración de Firewall PIX</u>.

Convenciones

Consulte Convenciones de Consejos Técnicos de Cisco para obtener más información sobre las convenciones sobre documentos.

<u>Configurar</u>

En esta sección encontrará la información para configurar las funciones descritas en este documento.

- <u>Configure el PIX</u>
- <u>Configurar el concentrador VPN 3000</u>

Nota: Utilice la herramienta Command Lookup (sólo para clientes registrados) para obtener más información sobre los comandos utilizados en esta sección.

Diagrama de la red

En este documento, se utiliza esta configuración de red:



Configure el PIX

PIX							
PIX7#show running-config							
: Saved							
:							
PIX Version 7.1(1)							
!							
hostname PIX7							
enable password 8Ry2YjIyt7RRXU24 encrypted							
names							
!							
! Configures the outside interface of the PIX. !							
By default, the security level for the outside interface							
is 0. interface Ethernet0							
nameif outside							
security-level 0							
ip address 10.1.1.1 255.255.255.0							
! Configures the inside interface of the PIX. ! By							
default, the security level for the inside interface is							
100. interface Ethernet1							
namelf inside							
security-level 100							
1p address 192.168.1.1 255.255.255.0							
Performs the TD edduceres that should not be Williams							
! Defines the IP addresses that should not be NATed.							
access-list nonat extended permit ip 192.168.1.0							
255.255.255.0 1/2.10.0.0 255.255.0.0							
access-list outside extended permit icmp any any							

!--- Defines the IP addresses that can communicate via the IPsec tunnel. access-list 101 extended permit ip 192.168.1.0 255.255.255.0 172.16.0.0 255.255.0.0 access-list OUT extended permit ip any any pager lines 24 mtu outside 1500 mtu inside 1500 no failover asdm image flash:/asdm-504.bin no asdm history enable arp timeout 14400 nat (inside) 0 access-list nonat access-group OUT in interface outside route outside 0.0.0.0 0.0.0.0 10.1.1.2 1 !--- Output is suppressed. !--- These are the IPsec parameters that are negotiated with the client. crypto ipsec transform-set my-set esp-aes-256 esp-sha-hmac crypto map mymap 20 match address 101 crypto map mymap 20 set peer 172.30.1.1 crypto map mymap 20 set transform-set my-set crypto map mymap interface outside !--- These are the Phase I parameters negotiated by the two peers. isakmp enable outside isakmp policy 10 authentication pre-share isakmp policy 10 encryption aes-256 isakmp policy 10 hash sha isakmp policy 10 group 2 isakmp policy 10 lifetime 86400 !--- A tunnel group consists of a set of records !--that contain tunnel connection policies. The two attributes !--- are General and IPsec. Use the remote peer IP address as the !--- name of the Tunnel group. In this example 172.30.1.1 is the peer IP address. !--Refer to <u>Tunnel Group</u> for more information. tunnel-group 172.30.1.1 type ipsec-121 tunnel-group 172.30.1.1 ipsec-attributes pre-shared-key * !--- Output is suppressed. ! : end PIX7#

Configurar el concentrador VPN 3000

Los concentradores VPN no están preprogramados con direcciones IP en sus configuraciones de fábrica. Debe utilizar el puerto de la consola para configurar las configuraciones iniciales que son una interfaz de línea de comandos (CLI) basada en menús. Consulte <u>Configuración de</u> <u>Concentradores VPN a través de la Consola</u> para obtener información sobre cómo configurar a través de la consola.

Después de configurar la dirección IP en la interfaz Ethernet 1 (privada), puede configurar el resto con la CLI o a través de la interfaz del explorador. La interfaz del explorador admite HTTP y HTTP a través de Secure Socket Layer (SSL).

Estos parámetros se configuran a través de la consola:

- Hora/Fecha: la hora y la fecha correctas son muy importantes. Ayudan a garantizar que las entradas de registro y de contabilidad sean exactas y que el sistema pueda crear un certificado de seguridad válido.
- Interfaz Ethernet 1 (privada): la dirección IP y la máscara (de la topología de red 172.16.5.100/16).

Ahora se puede acceder al concentrador VPN a través de un navegador HTML desde la red interna. Refiérase a <u>Uso de la Interfaz de Línea de Comandos para la Configuración Rápida</u> para obtener información sobre cómo configurar el VPN Concentrator en el modo CLI.

Escriba la dirección IP de la interfaz privada desde el navegador web para habilitar la interfaz GUI.

Haga clic en el icono **guardar** los cambios necesarios para guardar la memoria. El nombre de usuario y la contraseña predeterminados de fábrica son **admin**, que distingue entre mayúsculas y minúsculas.

 Inicie la GUI y seleccione Configuration > Interfaces para configurar la dirección IP para la interfaz pública y el gateway predeterminado.

Configuration Interfaces Sunday, 19 February 2006 16:54:00									
						Save Needed 🚽 Refresh 🚱			
This sect	This section lets you configure the VPN 3000 Concentrator's network interfaces and power supplies.								
To the tel	In the table below, or in the nicture, gelect and click the interface you want to configure:								
In the tai	ole below, or in the pict	ure, select and ch	CK me mienace	e you want to co	angure.				
	Interface	Status	IP Address	Subnet Mask	MAC Address	Default Gateway			
	Ethernet 1 (Private)	UP	172.16.5.100	255.255.0.0	00.03.A0.89.BF.D0				
	Ethernet 2 (Public)	UP	172.30.1.1	255.255.0.0	00.03.A0.89.BF.D1	172.30.1.2			
	Ethernet 3 (External)	Not Configured	0.0.0.0	0.0.0.0					
	DNS Server(s)	DNS Server No	t Configured						
	DNS Domain Name								
	 Power Supplies 								
	<u> </u>		ni• 🛄 👘		° 🔲				
	**************************************		•. in						
		-	•\)•	· 1912 🖬 1	0 TA 💌 TO TA 🖤				
Selecci	one Configuratio	on > Policy M	lanageme	nt > Traffic	Management >	Network Lists > Add			

2. Seleccione Configuration > Policy Management > Traffic Management > Network Lists > Add or Modify para crear las listas de red que definen el tráfico que se cifrará.Agregue aquí las redes locales y remotas. Las direcciones IP deben reflejar las de la lista de acceso configurada en el PIX remoto.En este ejemplo, las dos listas de red son remote_network y VPN Client Local LAN. Modify a configured Network List. Click on **Generate Local List** to generate a network list based on routing entries on the Private interface.

List Name remote_network	Name of the Network List you are adding. The name must be unique.
Network List	 Enter the Networks and Wildcard masks using the following format: n.n.n/n.n.n.n (e.g. 10.10.0.0/0.0.255.255). Note: Enter a wildcard mask, which is the reverse of a subnet mask. A wildcard mask has 1s in bit positions to ignore, 0s in bit positions to match. For example, 10.10.1.0/0.0.0.255 = all 10.10.1.nnn addresses. Each Network and Wildcard mask pair must be entered on a single line. The Wildcard mask may be omitted if the natural Wildcard mask is to be used.
Apply Concel Gene	erate Local List
Configuration Policy Manageme	ent Traffic Management Network Lists Modify
Modify a configured Network List. Private interface. List Name VPN Client Local L	Click on Generate Local List to generate a network list based on routing entries on the Name of the Network List you are adding. The name must be unique.
Network List	 Enter the Networks and Wildcard masks using the following format: n.n.n/n.n.n (e.g. 10.10.0.0/0.0.255.255). Note: Enter a wildcard mask, which is the reverse of subnet mask. A wildcard mask has 1s in bit positions to ignore, 0s in bit positions to match. For example, 10.10.1.0/0.0.0.255 = all 10.10.1.nn addresses. Each Network and Wildcard mask pair must be entered on a single line. The Wildcard mask may be omitted if the natural Wildcard mask is to be used.
Apply Cancel Ge	nerate Local List

3. Seleccione Configuration > System > Tunneling Protocols > IPSec LAN-to-LAN > Add para configurar el túnel IPsec LAN-to-LAN. Haga clic en Apply (Aplicar) cuando termine.Introduzca la dirección IP del par, las listas de red creadas en el paso 2, los parámetros IPsec e ISAKMP y la clave previamente compartida.En este ejemplo, la dirección IP del peer es 10.1.1.1, las listas de red son remote_network y VPN Client Local LAN, y cisco es la clave previamente compartida.

Configuration | Tunneling and Security | IPSec | LAN-to-LAN | Modify

Modify an IPSec LA	N-to-LAN connection.	
Enable	V	Check to enable this LAN-to-LAN connection.
Name	Test	Enter the name for this LAN-to-LAN connection.
Interface	Ethernet 2 (Public) (172.30.1.1) 💌	Select the interface for this LAN-to-LAN connection.
Connection Type	Bi-directional 💌	Choose the type of LAN-to-LAN connection. An Originats- Only connection may have multiple peers specified below.
Peers	10.1.1.1 ×	Enter the remote peer IP addresses for this LAN-to-LAN connection. <i>Originats-Only</i> connection may specify up to ten peer IP addresses. Enter one IP address per line.
Digital Certificate	None (Use Preshared Keys) 💌	Select the digital certificate to use.
Certificate Transmission	 ○ Entire certificate chain ③ Identity certificate only 	Choose how to send the digital certificate to the IKE peer.
Preshared Key	cisco	Enter the preshared key for this LAN-to-LAN connection.
Authentication	ESP/SHA/HMAC-160	Specify the packet authentication mechanism to use.
Encryption	AES-256 💌	Specify the encryption mechanism to use.
IKE Proposal	IKE-AES256-SHA	Select the IKE Proposal to use for this LAN-to-LAN connection.
Filter	-None-	Choose the filter to apply to the traffic that is tunneled through this LAN-to-LAN connection.
IPSec NAT-T		Check to let NAT-T compatible IPSec peers establish this LAN- to-LAN connection through a NAT device. You must also enable IPSec over NAT-T under NAT Transparency.
Bandwidth Policy	-Nane-	Choose the bandwidth policy to apply to this LAN-to-LAN connection.
Routing	None	Choose the routing mechanism to use Parameters below are ignored if Network Autodiscovery is chosen.

Local Network: If a LAN-to-LAN NAT rule is used, this is the Translated Network address.

Network List VPN Client Local LAN (Default)	Specify the local network address list or the IP address and wildcard mask for this LAN-to-LAN connection.
IP Address	Note: Enter a <i>wildcard</i> mask, which is the reverse of a subnet mask. A wildcard mask has 1s in bit positions to ignore.
Wildcard Mask	Os in bit positions to match. For example, 10.10.1.0/0.0.0.255 = all 10.10.1.nnn addresses.
Remote Network: If a LAN-to-LAN NAT rule is used, this	is the Remote Network address.
Network List remote_network	Specify the remote network address list or the IP address and wildcard mask for this LAN-to-LAN connection.
IP Address	Note: Enter a <i>wildcard</i> mask, which is the reverse of a subnet mask. A wildcard mask has 1s in bit positions to ignore,
Wildcard Mask	Os in bit positions to match. For example, 10.10.1.0/0.0.0.255 = all 10.10.1.nnn addresses.
Apply Cancel	

4. Seleccione Configuration > User Management > Groups > Modify 10.1.1.1 para ver la información de grupo generada automáticamente. Nota: No modifique esta configuración de grupo.

Configuration | User Management | Groups | Modify 10.1.1.1

Check the Inherit? box to set a field that you want to default to the base group value. Uncheck the Inherit? box and enter a new value to override base group values.

Identity Identity Parameters								
Attribute	ate Value Description							
Group Name	10.1.1.1	Enter a unique name for the group.						
Password	2010/04/06/06/06/06/06/06/06/06/06/06/06/06/06/	Enter the password for the group.						
Verify	*****	Verify the group's password.						
Туре	Internal 💌	<i>External</i> groups are configured on an external authentication server (e.g. RADIUS). <i>Internal</i> groups are configured on the VPN 3000 Concentrator's Internal Database.						
Apply	Cancel							

Verificación

Use esta sección para confirmar que su configuración funciona correctamente.

- <u>Verifique el PIX</u>
- Verifique el concentrador VPN 3000

Verifique el PIX

La herramienta Output Interpreter Tool (clientes registrados solamente) (OIT) soporta ciertos comandos show. Utilice la OIT para ver un análisis del resultado del comando show.

 <u>show isakmp sa</u> —Muestra todas las asociaciones de seguridad (SA) IKE actuales en un par. El estado MM_ACTIVE indica que el modo principal se utiliza para configurar el túnel VPN IPsec.En este ejemplo, el Firewall PIX inicia la conexión IPSec. La dirección IP del par es 172.30.1.1 y utiliza el modo principal para establecer la conexión.
 PIX7#show isakmp sa

```
Active SA: 1

Rekey SA: 0 (A tunnel will report 1 Active and 1 Rekey SA during rekey)

Total IKE SA: 1

1 IKE Peer: 172.30.1.1

Type : L2L Role : initiator

Rekey : no State : MM_ACTIVE
```

 <u>show ipsec sa</u> —Muestra la configuración utilizada por las SAs actuales. Verifique la dirección IP par, las redes accesibles en los extremos remotos y locales y la transformación fijada que se utiliza. Hay dos ESP SA, uno en cada dirección.

```
PIX7#show ipsec sa
interface: outside
Crypto map tag: mymap, seq num: 20, local addr: 10.1.1.1
access-list 101 permit ip 192.168.1.0 255.255.255.0 172.16.0.0 255.255.0.0
local ident (addr/mask/prot/port): (192.168.1.0/255.255.255.0/0/0)
remote ident (addr/mask/prot/port): (172.16.0.0/255.255.0.0/0/0)
```

```
current_peer: 172.30.1.1
  #pkts encaps: 4, #pkts encrypt: 4, #pkts digest: 4
  #pkts decaps: 4, #pkts decrypt: 4, #pkts verify: 4
  #pkts compressed: 0, #pkts decompressed: 0
  #pkts not compressed: 4, #pkts comp failed: 0, #pkts decomp failed: 0
  #send errors: 0, #recv errors: 0
 local crypto endpt.: 10.1.1.1, remote crypto endpt.: 172.30.1.1
 path mtu 1500, ipsec overhead 76, media mtu 1500
 current outbound spi: 136580F6
inbound esp sas:
 spi: 0xF24F4675 (4065281653)
    transform: esp-aes-256 esp-sha-hmac
    in use settings ={L2L, Tunnel,}
    slot: 0, conn_id: 1, crypto-map: mymap
    sa timing: remaining key lifetime (kB/sec): (3824999/28747)
    IV size: 16 bytes
    replay detection support: Y
outbound esp sas:
 spi: 0x136580F6 (325419254)
    transform: esp-aes-256 esp-sha-hmac
    in use settings ={L2L, Tunnel,}
    slot: 0, conn_id: 1, crypto-map: mymap
    sa timing: remaining key lifetime (kB/sec): (3824999/28745)
     IV size: 16 bytes
     replay detection support: Y
```

Utilice los comandos clear ipsec sa y clear isakmp sa para restablecer el túnel.

Verifique el concentrador VPN 3000

Seleccione **Monitoring > Statistics > IPsec** para verificar si el túnel ha aparecido en el VPN 3000 Concentrator. Esto contiene las estadísticas para los parámetros IKE e IPsec.

IKE (Phase 1) Statistics		IPSec (Phase 2) Statistics
Active Tunnels	1	Active Tunnels
Total Tunnels	1	Total Tunnels
Received Bytes	5720	Received Bytes
Sent Bytes	5576	Sent Bytes
Received Packets	57	Received Packets
Sent Packets	56	Sent Packets
Received Packets Dropped	0	Received Packets Dropped
Sent Packets Dropped	0	Received Packets Dropped (Anti-Replay)
Received Notifies	52	Sent Packets Dropped
Sent Notifies	104	Inbound Authentications
Received Phase-2 Exchanges	1	Failed Inbound Authentications
Sent Phase-2 Exchanges	0	Outbound Authentications
Invalid Phase-2 Exchanges Received	0	Failed Outbound Authentications
Invalid Phase-2 Exchanges Sent	0	Decryptions
Rejected Received Phase-2 Exchanges	0	Failed Decryptions
Rejected Sent Phase-2 Exchanges	0	Encryptions
Phase-2 SA Delete Requests Received	0	Failed Encryptions
Phase-2 SA Delete Requests Sent	0	System Capability Failures
Initiated Tunnels	0	No-SA Failures
Failed Initiated Tunnels	0	Protocol Use Failures
Failed Remote Tunnels	0	
Authentication Failures	0	
Decryption Failures	0	
Hash Validation Failures	0	
System Capability Failures	0	
No-SA Failures	0	

Puede supervisar activamente la sesión en **Monitoring > Sessions**. Aquí puede restablecer el túnel IPsec.

This screen shows statistics for sessions. To refresh the statistics, click **Refresh**. Select a **Group** to filter the sessions. For more information on a session, click on that session's name.

Group -All-

Session Summary

Active LAN-to- LAN Sessions since Stats Reset	Active Remote Access Sessions since Stats Reset	Active Management Sessions since Stats Reset	Total Active Sessions since Stats Reset	Peak Concurrent Sessions since Stats Reset	Weighted Active Load since Stats Reset	Percent Session Load since Stats Reset	Concurrent Sessions Limit	Total Cumulative Sessions since Stats Reset
1	0	0	1	0	1	1.00%	100	2

NAC Session Summary

Accepte Stats F	pted since Rejected since Exempted since ts Reset Stats Reset Stats Reset		Non-responsive since Stats Reset		Hold-off since Stats Reset		N/A since Stats Reset				
Active	Total	Active	Total	Active	Total	Active	Total	Active	Total	Active	Total
0	0	0	0	0	0	0	0	0	0	0	0

LAN-to-LAN Sessions

[Remote Access Sessions | Management Sessions]

[LAN-to-LAN Sessions | Management Sessions]

Connection Name	IP Address	Protocol	Encryption	Login Time	Duration	Bytes Tx	Bytes Rx
Test	10.1.1.1	IPSec/LAN-to-LAN	AES-256	Feb 19 17:02:01	0:06:02	448	448

Remote Access Sessions

Management Sessions

<u>Username</u>	Assigned IP Address	Group	Protocol	Login Time	Client Type	Bytes Tx	NAC Result	
	Public IP Address		Encryption	Duration	Version	Bytes Rx	Posture Token	

Νo	Remo	te Access	Sessions
----	------	-----------	----------

1	TAN be TAN Consistent	Damata Jacasa Cassiana 1	ł.
1	LAIN-TO-LAIN DESSIONS	NETHOLE ACCESS DESSIONS	

Administrator	IP Address	Protocol	Encryption	Login Time	Duration
admin	172.16.1.1	HTTP	3DES-168 SSLv3	Jan 01 05:45:00	0:11:30

Troubleshoot

En esta sección encontrará información que puede utilizar para solucionar problemas de configuración.

- Solución de problemas de PIX
- Solución de problemas del concentrador VPN 3000
- <u>PFS</u>

Solución de problemas de PIX

La herramienta Output Interpreter Tool (clientes registrados solamente) (OIT) soporta ciertos comandos show. Utilice la OIT para ver un análisis del resultado del comando show.

Nota: Consulte Información Importante sobre Comandos Debug antes de utilizar los comandos debug.

Los comandos debug en PIX para los túneles VPN son:

- debug crypto isakmp Depura las negociaciones ISAKMP SA.
- <u>debug crypto ipsec</u> Depura las negociaciones de SA IPSec.

Solución de problemas del concentrador VPN 3000

Al igual que los comandos debug en los routers Cisco, puede configurar las clases de eventos para ver todas las alarmas. Seleccione **Configuration > System > Events > Classes > Add** para activar el registro de clases de eventos.

Seleccione **Monitoring > Filterable Event Log** para supervisar los eventos habilitados.

Monitoring Filterable Event Log								
Salart Filmer Ordens								
Select Filter Options								
Event Class	All Classes	Severities	ALL A					
			1					
	AUTURNO							
	AUTHUBG							
	AUTHDECODE 💽		3 🗖					
CII: 1 TD 1 11	2222	F . / D						
Chent IP Address	U.U.U.U	Events/Page	100 💌					
0	A11	Dimension	Oldesthe Newset					
Group	-AI-	Direction	Oldest to Newest					
second second second		1						
	GetLog	SaveLog	ClearLog					

1 02/19/2006 17:17:00.080 SEV-5 IKEDB6/64 RPT-33 10.1.1.1 IKE Peer included IKE fragmentation capability flags: Main Mode: True Aggressive Mode: True

3 02/19/2006 17:17:00.750 SEV=4 IKE/119 RPT=23 10.1.1.1 Group [10.1.1.1] PHASE 1 COMPLETED

4 02/19/2006 17:17:00.750 SEV-4 AUTH/22 RPT-23 10.1.1.1 User [10.1.1.1] Group [10.1.1.1] connected, Session Type: IPSec/L&N-to-L&N

5 02/19/2006 17:17:00.750 SEV-4 AUTH/84 RPT-23 LAN-to-LAN tunnel to headend device 10.1.1.1 connected

6 02/19/2006 17:17:01.020 SEV=5 IKE/35 RPT=23 10.1.1.1
Group [10.1.1.1]
Received remote IP Proxy Subnet data in ID Payload:
Address 192.168.1.0, Mask 255.255.255.0, Protocol 0, Port 0

9 02/19/2006 17:17:01.020 SEV-5 IKE/34 RPT-23 10.1.1.1 Group [10.1.1.1] Received local IP Proxy Subnet data in ID Payload: Address 172.16.0.0, Mask 255.255.0.0, Protocol 0, Port 0

12 02/19/2006 17:17:01.020 SEV-5 IKE/66 RPT-13 10.1.1.1 Group [10.1.1.1] IKE Remote Peer configured for SA: L2L: Test

13 02/19/2006 17:17:01.350 SEV=4 IKE/49 RPI=3 10.1.1.1 Group [10.1.1.1] Security negotiation complete for LAN-to-LAN Group (10.1.1.1) Responder, Inbound SPI = 0x136580f6, Outbound SPI = 0xf24f4675

16 02/19/2006 17:17:01.350 SEV-4 IKE/120 RPT-3 10.1.1.1 Group [10.1.1.1] PHASE 2 CONPLETED (msgid=6b2795cd)



<u>PFS</u>

En las negociaciones de IPSec, Perfect Forward Secrecy (PFS) garantiza que cada clave

criptográfica nueva no esté relacionada a cualquier clave anterior. Active o desactive el PFS en ambos peers de túnel; de lo contrario, el túnel IPsec de LAN a LAN (L2L) no se establece en el PIX/ASA.

PFS se inhabilita de forma predeterminada. Para habilitar PFS utilice el comando **pfs** con la palabra clave *enable* en el modo de configuración de política de grupo. Para inhabilitar PFS, ingrese la palabra clave disable (inhabilitar).

hostname(config-group-policy)#pfs {enable | disable}

Para quitar el atributo PFS de la configuración en ejecución, ingrese la forma no de este comando. Una política de grupo puede heredar un valor para PFS de otra política de grupo. Ingrese la forma no de este comando para evitar heredar un valor.

hostname(config-group-policy)#no pfs

Información Relacionada

- Página de soporte de Cisco PIX 500 Series Security Appliances
- Cisco VPN 3000 Series Concentrator Página de soporte
- <u>Referencia de Comandos de Cisco PIX 500 Series Security Appliance</u>
- Soporte Técnico y Documentación Cisco Systems