

Ejemplo de Configuración de EzVPN con NEM en Router IOS con Concentrador VPN 3000

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Introducción

Este documento explica el procedimiento que se utiliza para configurar un router Cisco IOS® como EzVPN en [Network Extension Mode \(NEM\)](#) para conectarse a un concentrador Cisco VPN 3000. Una nueva función EzVPN Phase II es la compatibilidad con una configuración básica de traducción de direcciones de red (NAT). La EzVPN Phase II deriva del Unity Protocol (software VPN Client). El dispositivo remoto es siempre el iniciador del túnel IPsec. Sin embargo, las propuestas de Intercambio de claves de Internet (IKE) e IPsec no se pueden configurar en el cliente EzVPN. El cliente VPN negocia las propuestas con el servidor.

Para configurar IPsec entre un PIX/ASA 7.x y un Cisco 871 Router usando Easy VPN, refiérase a [PIX/ASA 7.x Easy VPN con un ASA 5500 como Servidor y Cisco 871 como Ejemplo de Configuración Easy VPN Remote](#).

Para configurar IPsec entre el Cisco IOS® Easy VPN Remote Hardware Client y el PIX Easy VPN Server, consulte [Ejemplo de Configuración de IOS Easy VPN Remote Hardware Client a un PIX Easy VPN Server](#).

Para configurar un Cisco 7200 Router como EzVPN y Cisco 871 Router como Easy VPN Remote,

consulte Ejemplo de Configuración de [7200 Easy VPN Server a 871 Easy VPN Remote](#).

Prerequisites

Requirements

Antes de intentar esta configuración, verifique que el router del IOS de Cisco soporte la [función EzVPN Phase II](#) y que tenga la conectividad IP con conexiones de extremo a extremo para establecer el túnel IPsec.

Componentes Utilizados

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

- Versión 12.2(8)YJ del software del IOS de Cisco (EzVPN Fase II)
- Concentrador VPN 3000 3.6.x
- Cisco 1700 Router

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.

Nota: Esta configuración se probó recientemente con un Cisco 3640 Router con Cisco IOS Software Release 12.4(8) y el VPN 3000 Concentrator versión 4.7.x.

Convenciones

Consulte [Convenciones de Consejos Técnicos Cisco para obtener más información sobre las convenciones del documento](#).

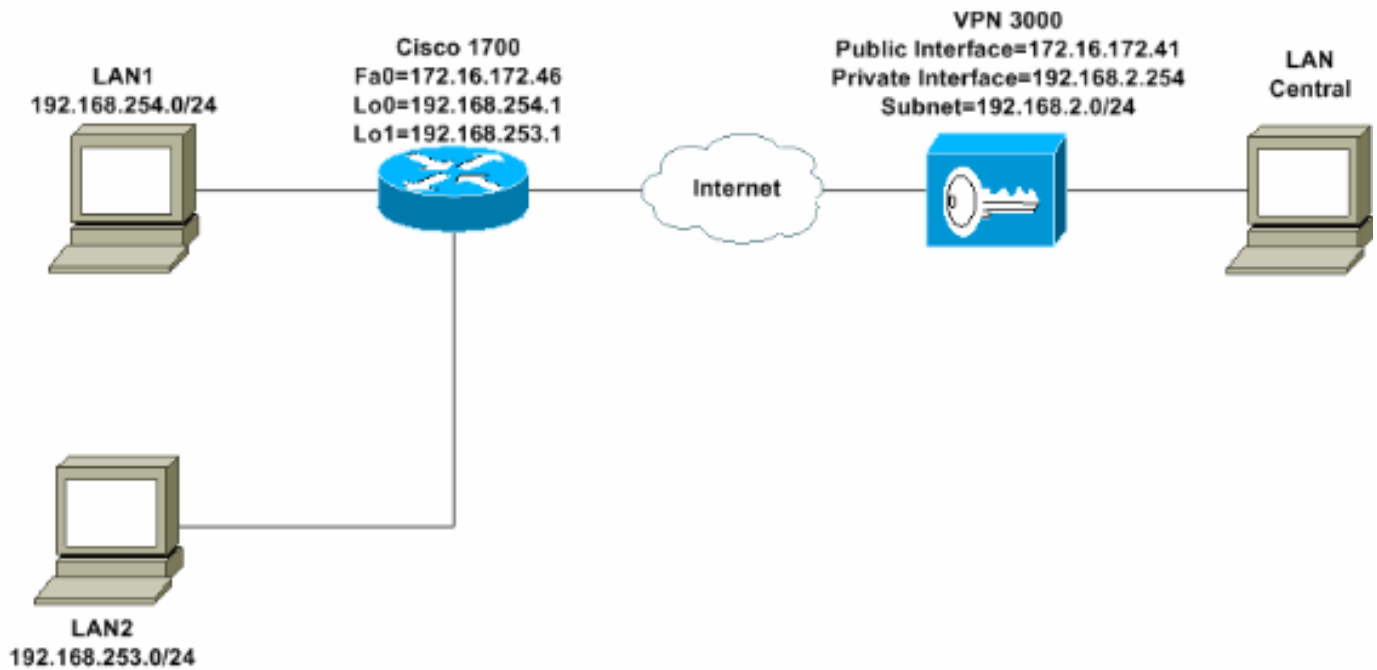
Configurar el concentrador VPN 3000

Tarea

En esta sección, se le presenta la información para configurar el VPN 3000 Concentrator.

Diagrama de la red

Este documento utiliza la configuración de red que se muestra en el siguiente diagrama. Las interfaces de loopback se utilizan como subredes internas y FastEthernet 0 es el valor predeterminado para Internet.



[Instrucciones paso a paso](#)

Complete estos pasos:

1. Elija **Configuration > User Management > Groups > Add** y defina un nombre de grupo y una contraseña para configurar un grupo IPsec para los usuarios. Este ejemplo utiliza el nombre de grupo **turaro** con contraseña/verify **tululo**.

The screenshot shows the Cisco configuration interface for adding a new group. The breadcrumb trail is Configuration > User Management > Groups > Add. The page contains a table for 'Identity Parameters' with the following data:

Attribute	Value	Description
Group Name	turaro	Enter a unique name for the group.
Password	*****	Enter the password for the group.
Verify	*****	Verify the group's password.
Type	Internal	External groups are configured on an external authentication server (e.g. RADIUS). Internal groups are configured on the VPN 3000 Concentrator's Internal Database.

At the bottom of the form, there are 'Add' and 'Cancel' buttons.

2. Elija **Configuration > User Management > Groups > turaro > General** para habilitar IPsec y desactivar Point-to-Point Tunneling Protocol (PPTP) y Layer 2 Tunnel Protocol (L2TP). Realice sus selecciones y haga clic en **Aplicar**.

- [-] Configuration
 - Interfaces
 - [-] System
 - [-] User Management
 - Base Group
 - Groups
 - Users
 - [-] Policy Management
- [-] Administration
- [-] Monitoring

Identity
General
IPSec
Client FW
PPTP/L2TP

General Par

Attribute	Value	Inherit?	
Access Hours	-No Restrictions-	<input checked="" type="checkbox"/>	Sele
Simultaneous Logins	3	<input checked="" type="checkbox"/>	Ente
Minimum Password Length	8	<input checked="" type="checkbox"/>	Ente
Allow Alphabetic-Only Passwords	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Ente be a
Idle Timeout	30	<input checked="" type="checkbox"/>	(min
Maximum Connect Time	0	<input checked="" type="checkbox"/>	(min
Filter	-None-	<input checked="" type="checkbox"/>	Ente
Primary DNS		<input checked="" type="checkbox"/>	Ente
Secondary DNS		<input checked="" type="checkbox"/>	Ente
Primary WINS		<input checked="" type="checkbox"/>	Ente
Secondary WINS		<input checked="" type="checkbox"/>	Ente
SEP Card Assignment	<input checked="" type="checkbox"/> SEP 1 <input checked="" type="checkbox"/> SEP 2 <input checked="" type="checkbox"/> SEP 3 <input checked="" type="checkbox"/> SEP 4	<input checked="" type="checkbox"/>	Sele
Tunneling Protocols	<input type="checkbox"/> PPTP <input type="checkbox"/> L2TP <input checked="" type="checkbox"/> IPSec	<input type="checkbox"/>	Sele

CISCO SYSTEMS

3. Establezca la autenticación en **Interno** para la autenticación extendida (Xauth) y asegúrese de que el tipo de túnel sea **Acceso remoto** y IPSec SA sea **ESP-3DES-MD5**.

Configuration | User Management | Groups | Modify ADMINI

Check the **Inherit?** box to set a field that you want to default to the base group value to override base group values.

Identity | General | **IPSec** | Client FW | PPTP/L2TP

IPSec Parameters

Attribute	Value	Inherit?
IPSec SA	ESP-3DES-MD5	<input checked="" type="checkbox"/>
IKE Peer Identity Validation	If supported by certificate	<input checked="" type="checkbox"/>
IKE Keepalives	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Reauthentication on Rekey	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tunnel Type	Remote Access	<input checked="" type="checkbox"/>

Remote Access Parameters

Group Lock	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Authentication	Internal	<input checked="" type="checkbox"/>

4. Elija **Configuration > System > Tunneling Protocols > IPSec > IKE Proposals** para asegurarse de que Cisco VPN Client (CiscoVPNClient-3DES-MD5) esté en Propuestas activas para IKE (Fase 1). **Nota:** Desde VPN Concentrator 4.1.x, el procedimiento es diferente para asegurarse de que Cisco VPN Client esté en la lista de Propuestas Activas para IKE (fase 1). Elija **Configuration > Tunneling and Security > IPSec > IKE Proposals**.

Configuration | System | Tunneling Protocols | IPSec | **IKE Proposals**

Add, delete, prioritize, and configure IKE Proposals.

Select an **Inactive Proposal** and click **Activate** to make it **Active**, or click **Modify**, **Copy** or **Delete**. Select an **Active Proposal** and click **Deactivate** to make it **Inactive**, or click **Move Up** or **Move Down**. Click **Add** or **Copy** to add a new **Inactive Proposal**. IKE Proposals are used by **Security Associations** parameters.

Active Proposals	Actions	Inactive Proposals
CiscoVPNClient-3DES-MD5 IKE-3DES-MD5 IKE-3DES-MD5-DH1 IKE-DES-MD5 IKE-3DES-MD5-DH7	<< Activate Deactivate >> Move Up Move Down Add	IKE-3DES-MD5-RSA IKE-3DES-SHA-DSA IKE-3DES-MD5-RSA-D IKE-DES-MD5-DH7 CiscoVPNClient-3DES CiscoVPNClient-3DES

5. Verifique su asociación de seguridad IPsec (SA). En el paso 3, su SA IPsec es ESP-3DES-MD5. Puede crear uno nuevo si lo desea, pero asegúrese de utilizar la SA IPsec correcta en su grupo. Debe inhabilitar Perfect Forward Secrecy (PFS) para la SA IPsec que utiliza. Seleccione Cisco VPN Client como la propuesta IKE eligiendo **Configuration > Policy Management > Traffic Management > SAs**. Escriba el nombre de SA en el cuadro de texto y

realice las selecciones apropiadas como se muestra aquí:


Configuration Policy Management Traffic Management Security Associations Modify		
Modify a configured Security Association.		
SA Name	<input type="text" value="ESP-3DES-MD5"/>	Specify the name of this Security Association (S
Inheritance	<input type="text" value="From Rule"/>	Select the granularity of this SA.
IPSec Parameters		
Authentication Algorithm	<input type="text" value="ESP/MD5/HMAC-128"/>	Select the packet authentication algorithm to use
Encryption Algorithm	<input type="text" value="3DES-168"/>	Select the ESP encryption algorithm to use.
Encapsulation Mode	<input type="text" value="Tunnel"/>	Select the Encapsulation Mode for this SA.
Perfect Forward Secrecy	<input type="text" value="Disabled"/>	Select the use of Perfect Forward Secrecy.
Lifetime Measurement	<input type="text" value="Time"/>	Select the lifetime measurement of the IPSec ke
Data Lifetime	<input type="text" value="10000"/>	Specify the data lifetime in kilobytes (KB).
Time Lifetime	<input type="text" value="28800"/>	Specify the time lifetime in seconds.
IKE Parameters		
IKE Peer	<input type="text" value="0.0.0.0"/>	Specify the IKE Peer for a LAN-to-LAN IPSec
Negotiation Mode	<input type="text" value="Aggressive"/>	Select the IKE Negotiation mode to use.
Digital Certificate	<input type="text" value="None (Use Preshared Keys)"/>	Select the Digital Certificate to use.
Certificate Transmission	<input type="radio"/> Entire certificate chain <input checked="" type="radio"/> Identity certificate only	Choose how to send the digital certificate to the
IKE Proposal	<input type="text" value="CiscoVPNClient-3DES-MD5"/>	Select the IKE Proposal to use as IKE initiator.

Nota: Este paso y el siguiente son opcionales si prefiere elegir una SA predefinida. Si su cliente tiene una dirección IP asignada dinámicamente, utilice 0.0.0.0 en el cuadro de texto IKE peer. Asegúrese de que la Propuesta IKE esté configurada en **CiscoVPNClient-3DES-MD5** como muestra este ejemplo.

6. No haga clic en *Permitir que las redes de la lista omitan el túnel*. La razón es que se soporta la tunelización dividida, pero la función de omisión no se soporta con la función EzVPN Client.

<ul style="list-style-type: none"> [-] Configuration <ul style="list-style-type: none"> [-] Interfaces [-] System [-] User Management <ul style="list-style-type: none"> [-] Base Group [-] Groups [-] Users [-] Policy Management [-] Administration [-] Monitoring 	Banner		<input checked="" type="checkbox"/>
	Allow Password Storage on Client	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Split Tunneling Policy	<input checked="" type="radio"/> Tunnel everything <input type="checkbox"/> Allow the networks in list to bypass the tunnel <input type="radio"/> Only tunnel networks in list	<input checked="" type="checkbox"/>
	Split Tunneling Network List	-None-	<input checked="" type="checkbox"/>

7. Elija **Configuration > User Management > Users** para agregar un usuario. Defina un nombre de usuario y una contraseña, asígnelos a un grupo y haga clic en **Agregar**.

<ul style="list-style-type: none"> [-] Configuration <ul style="list-style-type: none"> [-] Interfaces [-] System [-] User Management <ul style="list-style-type: none"> [-] Base Group [-] Groups [-] Users [-] Policy Management [-] Administration [-] Monitoring 	Configuration User Management Users Add		
	This section lets you add a user. Uncheck the Inherit? box and enter a new value to override group values.		
	Identity General IPSec PPTP/L2TP		
	Identity Parameters		
	Attribute	Value	Description
	Username	podma	Enter a unique username.
	Password	XXXXXXXXXX	Enter the user's password. The password must satisfy the group password requirements.
	Verify	XXXXXXXXXX	Verify the user's password.
	Group	turaro	Enter the group to which this user belongs.
	IP Address		Enter the IP address assigned to this user.
Subnet Mask		Enter the subnet mask assigned to this user.	
<input type="button" value="Add"/> <input type="button" value="Cancel"/>			
			

8. Elija **Administration > Admin Sessions** y verifique que el usuario esté conectado. En NEM, el concentrador VPN no asigna una dirección IP del conjunto. **Nota:** Este paso es opcional si prefiere elegir una SA predefinida.

LAN-to-LAN Sessions				[Remote Access Sessions Management Sessions]				
Connection Name	IP Address	Protocol	Encryption	Login Time	Duration	Bytes Tx	Bytes Rx	Actions
No LAN-to-LAN Sessions								
Remote Access Sessions				[LAN-to-LAN Sessions Management Sessions]				
Username	Assigned IP Address Public IP Address	Group	Protocol Encryption	Login Time Duration	Client Type Version	Bytes Tx Bytes Rx	Actions	
Cisco_MAE	192.168.253.0 172.16.172.46	turaro	IPSec 3DES-168	Mar 31 18:32:23 0:02:50	N/A N/A	301320 301320	[Logout Ping]	
Management Sessions				[LAN-to-LAN Sessions Remote Access Sessions]				
Administrator	IP Address	Protocol	Encryption	Login Time	Duration	Actions		
adman	171.69.89.5	HTTP	None	Mar 31 18:35:01	0:00:12	[Logout Ping]		

9. Haga clic en el icono **Guardar necesario** o **Guardar** para guardar la configuración.

[Configuración del router](#)

[Salida de show version](#)

show version

```
Cisco Internetwork Operating System Software
IOS (tm) C1700 Software (C1700-BK9NO3R2SY7-M), Version 12.2(8)YJ,
EARLY DEPLOYMENT RELEASE SOFTWARE (fc1)
```

```
1721-1(ADSL) uptime is 4 days, 5 hours, 33 minutes
System returned to ROM by reload
System image file is "flash:c1700-bk9no3r2sy7-mz.122-8.YJ.bin"
cisco 1721 (MPC860P) processor (revision 0x100) with 88474K/9830K bytes
16384K bytes of processor board System flash (Read/Write)
```

1721-1

```
1721-1(ADSL)#show run
version 12.2
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
!
hostname 1721-1(ADSL)
!
!--- Specify the configuration name !--- to be assigned
to the interface. crypto ipsec client ezvpn SJVPN
!--- Tunnel control; automatic is the default. connect
auto
!--- The group name and password should be the same as
given in the VPN Concentrator. group turaro key tululo
!--- The mode that is chosen as the network extension.
mode network-extension
!--- The tunnel peer end (VPN Concentrator public
interface IP address). peer 172.16.172.41
!
interface Loopback0
 ip address 192.168.254.1 255.255.255.0
!--- Configure the Loopback interface !--- as the inside
interface. ip nat inside
!--- Specifies the Cisco EzVPN Remote configuration name
!--- to be assigned to the inside interface.
```



```

crypto ipsec client ezvpn SJVPN inside
!
interface Loopback1
 ip address 192.168.253.1 255.255.255.0
 ip nat inside
 crypto ipsec client ezvpn SJVPN inside
!
interface FastEthernet0
 ip address 172.16.172.46 255.255.255.240
 !--- Configure the FastEthernet interface !--- as the
 outside interface. ip nat outside
 !--- Specifies the Cisco EzVPN Remote configuration name
 !--- to be assigned to the first outside interface,
 because !--- outside is not specified for the interface.
 !--- The default is outside.

 crypto ipsec client ezvpn SJVPN
!
 !--- Specify the overload option with the ip nat command
 !--- in global configuration mode in order to enable !--
 - Network Address Translation (NAT) of the inside source
 address !--- so that multiple PCs can use the single IP
 address.

 ip nat inside source route-map EZVPN interface
 FastEthernet0 overload
 ip classless
 ip route 0.0.0.0 0.0.0.0 172.16.172.41
!
 access-list 177 deny ip 192.168.254.0 0.0.0.255
 192.168.2.0 0.0.0.255
 access-list 177 deny ip 192.168.253.0 0.0.0.255
 192.168.2.0 0.0.0.255
 access-list 177 permit ip 192.168.253.0 0.0.0.255 any
 access-list 177 permit ip 192.168.254.0 0.0.0.255 any
!
 route-map EZVPN permit 10
  match ip address 177
!
!
 line con 0
 line aux 0
 line vty 0 4
  password cisco
  login
!
 no scheduler allocate
end

```

Verificación

Use esta sección para confirmar que su configuración funciona correctamente.

[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.

Una vez que configura ambos dispositivos, el router Cisco 3640 intenta configurar el túnel VPN contactando al concentrador VPN automáticamente usando la dirección IP del par. Después de intercambiar los parámetros ISAKMP iniciales, el router visualiza este mensaje:

Pending XAuth Request, Please enter the following command: **crypto ipsec client ezvpn xauth**

Debe ingresar el comando **crypto ipsec client ezvpn xauth** que le pide un nombre de usuario y contraseña. Esto debe coincidir con el nombre de usuario y la contraseña configurados en el concentrador VPN (paso 7). Una vez que el nombre de usuario y la contraseña son acordados por ambos peers, se acuerda el resto de los parámetros y se activa el túnel VPN IPsec.

EZVPN(SJVPN): Pending XAuth Request, Please enter the following command:

EZVPN: crypto ipsec client ezvpn xauth

!--- Enter the crypto ipsec client ezvpn xauth command.

crypto ipsec client ezvpn xauth

Enter Username and Password.: **padma**

Password: : **password**

[Troubleshoot](#)

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

[Comandos para resolución de problemas](#)

La herramienta [Output Interpreter](#) (sólo para clientes registrados) permite utilizar algunos comandos “show” y ver un análisis del resultado de estos comandos.

Nota: Consulte [Información Importante sobre Comandos Debug](#) antes de ejecutar los comandos debug.

- **debug crypto ipsec client ezvpn:** muestra información que muestra la configuración e implementación de la función EzVPN Client.
- **debug crypto ipsec**—Muestra información de depuración acerca de las conexiones IPSec.
- **debug crypto isakmp:** muestra información de depuración sobre las conexiones IPsec y muestra el primer conjunto de atributos que se niegan debido a incompatibilidades en ambos extremos.
- **show debug**—Muestra el estado de cada opción de depuración.

[Resultado de los comandos de depuración](#)

Tan pronto como ingresa el comando **crypto ipsec client ezvpn SJVPN**, el Cliente EzVPN intenta conectarse al servidor. Si cambia el comando **connect manual** bajo la configuración de grupo, ingrese el comando **crypto ipsec client ezvpn connect SJVPN** para iniciar el intercambio de propuestas al servidor.

4d05h: ISAKMP (0:3): beginning Aggressive Mode exchange
4d05h: ISAKMP (0:3): sending packet to 172.16.172.41 (I) AG_INIT_EXCH
4d05h: ISAKMP (0:3): received packet from 172.16.172.41 (I) AG_INIT_EXCH
4d05h: ISAKMP (0:3): processing SA payload. message ID = 0
4d05h: ISAKMP (0:3): processing ID payload. message ID = 0
4d05h: ISAKMP (0:3): processing vendor id payload
4d05h: ISAKMP (0:3): vendor ID is Unity
4d05h: ISAKMP (0:3): processing vendor id payload
4d05h: ISAKMP (0:3): vendor ID seems Unity/DPD but bad major
4d05h: ISAKMP (0:3): vendor ID is XAUTH
4d05h: ISAKMP (0:3): processing vendor id payload
4d05h: ISAKMP (0:3): vendor ID is DPD
4d05h: ISAKMP (0:3) local preshared key found
4d05h: ISAKMP (0:3) Authentication by xauth preshared
4d05h: ISAKMP (0:3): Checking ISAKMP transform 6 against priority 65527 policy
4d05h: ISAKMP: encryption 3DES-CBC
4d05h: ISAKMP: hash MD5
4d05h: ISAKMP: default group 2
4d05h: ISAKMP: auth XAUTHInitPreShared
4d05h: ISAKMP: life type in seconds
4d05h: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B
4d05h: ISAKMP (0:3): Encryption algorithm offered does not match policy!
4d05h: ISAKMP (0:3): atts are not acceptable. Next payload is 0
4d05h: ISAKMP (0:3): Checking ISAKMP transform 6 against priority 65528 policy
4d05h: ISAKMP: encryption 3DES-CBC
4d05h: ISAKMP: hash MD5
4d05h: ISAKMP: default group 2
4d05h: ISAKMP: auth XAUTHInitPreShared
4d05h: ISAKMP: life type in seconds
4d05h: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B
4d05h: ISAKMP (0:3): Encryption algorithm offered does not match policy!
4d05h: ISAKMP (0:3): atts are not acceptable. Next payload is 0
4d05h: ISAKMP (0:3): Checking ISAKMP transform 6 against priority 65529 policy
4d05h: ISAKMP: encryption 3DES-CBC
4d05h: ISAKMP: hash MD5
4d05h: ISAKMP: default group 2
4d05h: ISAKMP: auth XAUTHInitPreShared
4d05h: ISAKMP: life type in seconds
4d05h: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B
4d05h: ISAKMP (0:3): Encryption algorithm offered does not match policy!
4d05h: ISAKMP (0:3): atts are not acceptable. Next payload is 0
4d05h: ISAKMP (0:3): Checking ISAKMP transform 6 against priority 65530 policy
4d05h: ISAKMP: encryption 3DES-CBC
4d05h: ISAKMP: hash MD5
4d05h: ISAKMP: default group 2
4d05h: ISAKMP: auth XAUTHInitPreShared
4d05h: ISAKMP: life type in seconds
4d05h: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B
4d05h: ISAKMP (0:3): Encryption algorithm offered does not match policy!
4d05h: ISAKMP (0:3): atts are not acceptable. Next payload is 0
4d05h: ISAKMP (0:3): Checking ISAKMP transform 6 against priority 65531 policy
4d05h: ISAKMP: encryption 3DES-CBC
4d05h: ISAKMP: hash MD5
4d05h: ISAKMP: default group 2
4d05h: ISAKMP: auth XAUTHInitPreShared
4d05h: ISAKMP: life type in seconds
4d05h: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B
4d05h: ISAKMP (0:3): Hash algorithm offered does not match policy!
4d05h: ISAKMP (0:3): atts are not acceptable. Next payload is 0
4d05h: ISAKMP (0:3): Checking ISAKMP transform 6 against priority 65532 policy
4d05h: ISAKMP: encryption 3DES-CBC
4d05h: ISAKMP: hash MD5
4d05h: ISAKMP: default group 2
4d05h: ISAKMP: auth XAUTHInitPreShared

4d05h: ISAKMP: life type in seconds
4d05h: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B
4d05h: ISAKMP (0:3): **atts are acceptable.** Next payload is 0
4d05h: ISAKMP (0:3): processing KE payload. message ID = 0
4d05h: ISAKMP (0:3): processing NONCE payload. message ID = 0
4d05h: ISAKMP (0:3): SKEYID state generated
4d05h: ISAKMP (0:3): processing HASH payload. message ID = 0
4d05h: ISAKMP (0:3): **SA has been authenticated with 172.16.172.41**
4d05h: ISAKMP (0:3): sending packet to 172.16.172.41 (I) AG_INIT_EXCH
4d05h: ISAKMP (0:3): Input = IKE_MSG_FROM_PEER, IKE_AM_EXCH
Old State = IKE_I_AM1 New State = IKE_P1_COMPLETE

4d05h: IPSEC(key_engine): got a queue event...

4d05h: IPsec: Key engine got KEYENG_IKMP_MORE_SAS message

4d05h: ISAKMP (0:3): Need XAUTH

4d05h: ISAKMP (0:3): Input = IKE_MSG_INTERNAL, IKE_PHASE1_COMPLETE

Old State = IKE_P1_COMPLETE New State = IKE_P1_COMPLETE

!--- Phase 1 (ISAKMP) is complete. 4d05h: ISAKMP: received ke message (6/1) 4d05h: ISAKMP: received KEYENG_IKMP_MORE_SAS message 4d05h: ISAKMP: set new node -857862190 to CONF_XAUTH *!--- Initiate extended authentication.* 4d05h: ISAKMP (0:3): sending packet to 172.16.172.41 (I) CONF_XAUTH 4d05h: ISAKMP (0:3): purging node -857862190 4d05h: ISAKMP (0:3): Sending initial contact. 4d05h: ISAKMP (0:3): received packet from 172.16.172.41 (I) CONF_XAUTH 4d05h: ISAKMP: set new node -1898481791 to CONF_XAUTH 4d05h: ISAKMP (0:3): processing transaction payload from 172.16.172.41. message ID = -1898481791 4d05h: ISAKMP: Config payload REQUEST 4d05h: ISAKMP (0:3): checking request: 4d05h: ISAKMP: XAUTH_TYPE_V2 4d05h: ISAKMP: XAUTH_USER_NAME_V2 4d05h: ISAKMP: XAUTH_USER_PASSWORD_V2 4d05h: ISAKMP: XAUTH_MESSAGE_V2 4d05h: ISAKMP (0:3): Xauth process request 4d05h: ISAKMP (0:3): Input = IKE_MSG_FROM_PEER, IKE_CFG_REQUEST Old State = IKE_P1_COMPLETE New State = IKE_XAUTH_REPLY_AWAIT 4d05h: EZVPN(SJVPN): Current State: READY 4d05h: EZVPN(SJVPN): Event: XAUTH_REQUEST 4d05h: EZVPN(SJVPN): ezvpn_xauth_request 4d05h: EZVPN(SJVPN): ezvpn_parse_xauth_msg 4d05h: EZVPN: Attributes sent in xauth request message: 4d05h: XAUTH_TYPE_V2(SJVPN): 0 4d05h: XAUTH_USER_NAME_V2(SJVPN): 4d05h: XAUTH_USER_PASSWORD_V2(SJVPN): 4d05h: XAUTH_MESSAGE_V2(SJVPN) <Enter Username and Password.> 4d05h: EZVPN(SJVPN): New State: XAUTH_REQ 4d05h: ISAKMP (0:3): Input = IKE_MSG_INTERNAL, IKE_PHASE1_COMPLETE Old State = IKE_XAUTH_REPLY_AWAIT New State = IKE_XAUTH_REPLY_AWAIT 4d05h: EZVPN(SJVPN): Pending XAuth Request, Please enter the following command: 4d05h: EZVPN: **crypto ipsec client ezvpn xauth**

!--- Enter the crypto ipsec client ezvpn xauth command.

crypto ipsec client ezvpn xauth

Enter Username and Password.: **padma**

Password: : **password**

!--- The router requests your username and password that is !--- configured on the server. 4d05h: EZVPN(SJVPN): Current State: XAUTH_REQ 4d05h: EZVPN(SJVPN): Event: XAUTH_PROMPTING 4d05h: EZVPN(SJVPN): New State: XAUTH_PROMPT 1721-1(ADSL)# 4d05h: EZVPN(SJVPN): Current State: XAUTH_PROMPT 4d05h: EZVPN(SJVPN): Event: XAUTH_REQ_INFO_READY 4d05h: EZVPN(SJVPN): ezvpn_xauth_reply 4d05h: XAUTH_TYPE_V2(SJVPN): 0 4d05h: XAUTH_USER_NAME_V2(SJVPN): Cisco_MAE 4d05h: XAUTH_USER_PASSWORD_V2(SJVPN): <omitted> 4d05h: EZVPN(SJVPN): New State: XAUTH_REPLIED 4d05h: xauth-type: 0 4d05h: username: Cisco_MAE 4d05h: password: <omitted> 4d05h: message <Enter Username and Password.> 4d05h: ISAKMP (0:3): responding to peer config from 172.16.172.41. ID = -1898481791 4d05h: ISAKMP (0:3): sending packet to 172.16.172.41 (I) CONF_XAUTH 4d05h: ISAKMP (0:3): deleting node -1898481791 error FALSE reason "done with xauth request/reply exchange" 4d05h: ISAKMP (0:3): Input = IKE_MSG_INTERNAL, IKE_XAUTH_REPLY_ATTR Old State = IKE_XAUTH_REPLY_AWAIT New State = IKE_XAUTH_REPLY_SENT 4d05h: ISAKMP (0:3): received packet from 172.16.172.41 (I) CONF_XAUTH 4d05h: ISAKMP: set new node -1602220489 to CONF_XAUTH 4d05h: ISAKMP (0:3): processing transaction payload from 172.16.172.41. message ID = -1602220489 4d05h:

ISAKMP: Config payload SET 4d05h: ISAKMP (0:3): Xauth process set, status = 1 4d05h: ISAKMP (0:3): checking SET: 4d05h: ISAKMP: XAUTH_STATUS_V2 XAUTH-OK 4d05h: ISAKMP (0:3): attributes sent in message: 4d05h: Status: 1 4d05h: ISAKMP (0:3): sending packet to 172.16.172.41 (I) CONF_XAUTH 4d05h: ISAKMP (0:3): deleting node -1602220489 error FALSE reason "" 4d05h: ISAKMP (0:3): Input = IKE_MSG_FROM_PEER, IKE_CFG_SET Old State = IKE_XAUTH_REPLY_SENT New State = IKE_P1_COMPLETE 4d05h: EZVPN(SJVPN): Current State: XAUTH_REPLIED 4d05h: EZVPN(SJVPN): Event: XAUTH_STATUS 4d05h: EZVPN(SJVPN): New State: READY 4d05h: ISAKMP (0:3): Need config/address 4d05h: ISAKMP (0:3): Need config/address 4d05h: ISAKMP: set new node 486952690 to CONF_ADDR 4d05h: ISAKMP (0:3): initiating peer config to 172.16.172.41. ID = 486952690 4d05h: ISAKMP (0:3): sending packet to 172.16.172.41 (I) CONF_ADDR 4d05h: ISAKMP (0:3): Input = IKE_MSG_INTERNAL, IKE_PHASE1_COMPLETE Old State = IKE_P1_COMPLETE New State = IKE_CONFIG_MODE_REQ_SENT 4d05h: ISAKMP (0:3): received packet from 172.16.172.41 (I) CONF_ADDR 4d05h: ISAKMP (0:3): processing transaction payload from 172.16.172.41. message ID = 486952690 4d05h: ISAKMP: Config payload REPLY 4d05h: ISAKMP(0:3) process config reply 4d05h: ISAKMP (0:3): deleting node 486952690 error FALSE reason "done with transaction" 4d05h: ISAKMP (0:3): Input = IKE_MSG_FROM_PEER, IKE_CFG_REPLY Old State = IKE_CONFIG_MODE_REQ_SENT New State = IKE_P1_COMPLETE 4d05h: EZVPN(SJVPN): Current State: READY 4d05h: EZVPN(SJVPN): Event: MODE_CONFIG_REPLY 4d05h: EZVPN(SJVPN): ezvpn_mode_config 4d05h: EZVPN(SJVPN): ezvpn_parse_mode_config_msg 4d05h: EZVPN: Attributes sent in message 4d05h: ip_ifnat_modified: old_if 0, new_if 2 4d05h: ip_ifnat_modified: old_if 0, new_if 2 4d05h: ip_ifnat_modified: old_if 1, new_if 2 4d05h: EZVPN(SJVPN): New State: SS_OPEN 4d05h: ISAKMP (0:3): Input = IKE_MSG_INTERNAL, IKE_PHASE1_COMPLETE Old State = IKE_P1_COMPLETE New State = IKE_P1_COMPLETE 4d05h: IPSEC(sa_request): , (key eng. msg.) OUTBOUND local= 172.16.172.46, remote= 172.16.172.41, local_proxy= 192.168.254.0/255.255.255.0/0/0 (type=4), remote_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), protocol= ESP, transform= esp-3des esp-sha-hmac , lifedur= 2147483s and 4608000kb, spi= 0xE6DB9372(3873149810), conn_id= 0, keysize= 0, flags= 0x400C 4d05h: IPSEC(sa_request): , (key eng. msg.) OUTBOUND local= 172.16.172.46, remote= 172.16.172.41, local_proxy= 192.168.254.0/255.255.255.0/0/0 (type=4), remote_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), protocol= ESP, transform= esp-3des esp-md5-hmac , lifedur= 2147483s and 4608000kb, spi= 0x3C77C53D(1014482237), conn_id= 0, keysize= 0, flags= 0x400C 4d05h: IPSEC(sa_request): , (key eng. msg.) OUTBOUND local= 172.16.172.46, remote= 172.16.172.41, local_proxy= 192.168.254.0/255.255.255.0/0/0 (type=4), remote_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), protocol= ESP, transform= esp-des esp-sha-hmac , lifedur= 2147483s and 4608000kb, spi= 0x79BB8DF4(2042334708), conn_id= 0, keysize= 0, flags= 0x400C 4d05h: IPSEC(sa_request): , (key eng. msg.) OUTBOUND local= 172.16.172.46, remote= 172.16.172.41, local_proxy= 192.168.254.0/255.255.255.0/0/0 (type=4), remote_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), protocol= ESP, transform= esp-des esp-md5-hmac , lifedur= 2147483s and 4608000kb, spi= 0x19C3A5B2(432252338), conn_id= 0, keysize= 0, flags= 0x400C 4d05h: ISAKMP: received ke message (1/4) 4d05h: ISAKMP: set new node 0 to QM_IDLE 4d05h: EZVPN(SJVPN): Current State: SS_OPEN 4d05h: EZVPN(SJVPN): Event: SOCKET_READY 4d05h: EZVPN(SJVPN): No state change 4d05h: ISAKMP (0:3): sitting IDLE. Starting QM immediately (QM_IDLE) 4d05h: ISAKMP (0:3): beginning Quick Mode exchange, M-ID of -1494477527 4d05h: IPSEC(sa_request): , (key eng. msg.) OUTBOUND local= 172.16.172.46, remote= 172.16.172.41, local_proxy= 192.168.253.0/255.255.255.0/0/0 (type=4), remote_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), protocol= ESP, transform= esp-3des esp-sha-hmac , lifedur= 2147483s and 4608000kb, spi= 0xB18CF11E(2978803998), conn_id= 0, keysize= 0, flags= 0x400C 4d05h: IPSEC(sa_request): , (key eng. msg.) OUTBOUND local= 172.16.172.46, remote= 172.16.172.41, local_proxy= 192.168.253.0/255.255.255.0/0/0 (type=4), remote_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), protocol= ESP, transform= esp-3des esp-md5-hmac , lifedur= 2147483s and 4608000kb, spi= 0xA8C469EC(2831444460), conn_id= 0, keysize= 0, flags= 0x400C 4d05h: IPSEC(sa_request): , (key eng. msg.) OUTBOUND local= 172.16.172.46, remote= 172.16.172.41, local_proxy= 192.168.253.0/255.255.255.0/0/0 (type=4), remote_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), protocol= ESP, transform= esp-des esp-sha-hmac , lifedur= 2147483s and 4608000kb, spi= 0xBC5AD5EE(3160069614), conn_id= 0, keysize= 0, flags= 0x400C 4d05h: IPSEC(sa_request): , (key eng. msg.) OUTBOUND local= 172.16.172.46, remote= 172.16.172.41, local_proxy= 192.168.253.0/255.255.255.0/0/0 (type=4), remote_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), protocol= ESP, transform= esp-des esp-md5-hmac , lifedur= 2147483s and 4608000kb, spi= 0x8C34C692(2352268946), conn_id= 0, keysize= 0, flags= 0x400C 4d05h: ISAKMP (0:3): sending packet to 172.16.172.41 (I) QM_IDLE 4d05h: ISAKMP (0:3): Node -1494477527, Input = IKE_MSG_INTERNAL, IKE_INIT_QM Old State = IKE_QM_READY New State = IKE_QM_I_QM1 4d05h: ISAKMP: received ke message (1/4) 4d05h: ISAKMP: set new node 0 to QM_IDLE 4d05h: ISAKMP (0:3): sitting IDLE. Starting QM immediately (QM_IDLE) 4d05h: ISAKMP (0:3): beginning Quick Mode exchange, M-ID of -1102788797 4d05h: EZVPN(SJVPN): Current State: SS_OPEN 4d05h: EZVPN(SJVPN): Event: SOCKET_READY 4d05h: EZVPN(SJVPN): No state change 4d05h: ISAKMP (0:3): sending packet to 172.16.172.41 (I) QM_IDLE 4d05h: ISAKMP (0:3): Node -1102788797, Input = IKE_MSG_INTERNAL,

IKE_INIT_QM Old State = IKE_QM_READY New State = IKE_QM_I_QM1 4d05h: ISAKMP (0:3): received packet from 172.16.172.41 (I) QM_IDLE 4d05h: ISAKMP: set new node 733055375 to QM_IDLE 4d05h: ISAKMP (0:3): processing HASH payload. message ID = 733055375 4d05h: ISAKMP (0:3): processing NOTIFY RESPONDER_LIFETIME protocol 1 spi 0, message ID = 733055375, sa = 820ABFA0 4d05h: ISAKMP (0:3): processing responder lifetime 4d05h: ISAKMP (0:3): start processing isakmp responder lifetime 4d05h: ISAKMP (0:3): restart ike sa timer to 86400 secs 4d05h: ISAKMP (0:3): deleting node 733055375 error FALSE reason "informational (in) state 1" 4d05h: ISAKMP (0:3): Input = IKE_MSG_FROM_PEER, IKE_INFO_NOTIFY Old State = IKE_P1_COMPLETE New State = IKE_P1_COMPLETE 4d05h: ISAKMP (0:3): received packet from 172.16.172.41 (I) QM_IDLE 4d05h: ISAKMP (0:3): processing HASH payload. message ID = -1494477527 4d05h: ISAKMP (0:3): processing SA payload. message ID = -1494477527 4d05h: ISAKMP (0:3): Checking IPsec proposal 1 4d05h: ISAKMP: transform 1, ESP_3DES 4d05h: ISAKMP: attributes in transform: 4d05h: ISAKMP: SA life type in seconds 4d05h: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B 4d05h: ISAKMP: SA life type in kilobytes 4d05h: ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0 4d05h: ISAKMP: encaps is 1 4d05h: ISAKMP: authenticator is HMAC-MD5 4d05h: ISAKMP (0:3): atts are acceptable. 4d05h: IPSEC(validate_proposal_request): proposal part #1, (key eng. msg.) INBOUND local= 172.16.172.46, remote= 172.16.172.41, local_proxy= 192.168.254.0/255.255.255.0/0/0 (type=4), remote_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), protocol= ESP, transform= esp-3des esp-md5-hmac , lifedur= 0s and 0kb, spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x4 4d05h: ISAKMP (0:3): processing NONCE payload. message ID = -1494477527 4d05h: ISAKMP (0:3): processing ID payload. message ID = -1494477527 4d05h: ISAKMP (0:3): processing ID payload. message ID = -1494477527 4d05h: ISAKMP (0:3): processing NOTIFY RESPONDER_LIFETIME protocol 3 spi 1344958901, message ID = -1494477527, sa = 820ABFA0 4d05h: ISAKMP (0:3): processing responder lifetime 4d05h: ISAKMP (3): responder lifetime of 28800s 4d05h: ISAKMP (3): responder lifetime of 0kb 4d05h: ISAKMP (0:3): Creating IPsec SAs 4d05h: inbound SA from 172.16.172.41 to 172.16.172.46 (proxy 0.0.0.0 to 192.168.254.0) 4d05h: has spi 0x3C77C53D and conn_id 2000 and flags 4 4d05h: lifetime of 28800 seconds 4d05h: outbound SA from 172.16.172.46 to 172.16.172.41 (proxy 192.168.254.0 to 0.0.0.0) 4d05h: has spi 1344958901 and conn_id 2001 and flags C 4d05h: lifetime of 28800 seconds 4d05h: ISAKMP (0:3): sending packet to 172.16.172.41 (I) QM_IDLE 4d05h: ISAKMP (0:3): deleting node -1494477527 error FALSE reason "" 4d05h: ISAKMP (0:3): Node -1494477527, Input = IKE_MSG_FROM_PEER, IKE_QM_EXCH Old State = IKE_QM_I_QM1 New State = IKE_QM_PHASE2_COMPLETE 4d05h: ISAKMP (0:3): received packet from 172.16.172.41 (I) QM_IDLE 4d05h: ISAKMP (0:3): processing HASH payload. message ID = -1102788797 4d05h: ISAKMP (0:3): processing SA payload. message ID = -1102788797 4d05h: ISAKMP (0:3): Checking IPsec proposal 1 4d05h: ISAKMP: transform 1, ESP_3DES 4d05h: ISAKMP: attributes in transform: 4d05h: ISAKMP: SA life type in seconds 4d05h: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B 4d05h: ISAKMP: SA life type in kilobytes 4d05h: ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0 4d05h: ISAKMP: encaps is 1 4d05h: ISAKMP: authenticator is HMAC-MD5 4d05h: ISAKMP (0:3): atts are acceptable. 4d05h: IPSEC(validate_proposal_request): proposal part #1, (key eng. msg.) INBOUND local= 172.16.172.46, remote= 172.16.172.41, local_proxy= 192.168.253.0/255.255.255.0/0/0 (type=4), remote_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), protocol= ESP, transform= esp-3des esp-md5-hmac , lifedur= 0s and 0kb, spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x4 4d05h: ISAKMP (0:3): processing NONCE payload. message ID = -1102788797 4d05h: ISAKMP (0:3): processing ID payload. message ID = -1102788797 4d05h: ISAKMP (0:3): processing ID payload. message ID = -1102788797 4d05h: ISAKMP (0:3): processing NOTIFY RESPONDER_LIFETIME protocol 3 spi 653862918, message ID = -1102788797, sa = 820ABFA0 4d05h: ISAKMP (0:3): processing responder lifetime 4d05h: ISAKMP (3): responder lifetime of 28800s 4d05h: ISAKMP (3): responder lifetime of 0kb 4d05h: IPSEC(key_engine): got a queue event... 4d05h: IPSEC(initialize_sas): , (key eng. msg.) INBOUND local= 172.16.172.46, remote= 172.16.172.41, local_proxy= 192.168.254.0/255.255.255.0/0/0 (type=4), remote_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), protocol= ESP, transform= esp-3des esp-md5-hmac , lifedur= 28800s and 0kb, spi= 0x3C77C53D(1014482237), conn_id= 2000, keysize= 0, flags= 0x4 4d05h: IPSEC(initialize_sas): , (key eng. msg.) OUTBOUND local= 172.16.172.46, remote= 172.16.172.41, local_proxy= **192.168.254.0**/255.255.255.0/0/0 (type=4), remote_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), protocol= ESP, transform= esp-3des esp-md5-hmac , lifedur= 28800s and 0kb, spi= 0x502A71B5(1344958901), conn_id= 2001, keysize= 0, flags= 0xC 4d05h: IPSEC(create_sa): sa created, (sa) sa_dest= 172.16.172.46, sa_prot= 50, sa_spi= **0x3C77C53D(1014482237)**,
!--- SPI that is used on inbound SA. sa_trans= esp-3des esp-md5-hmac , sa_conn_id= 2000 4d05h: IPSEC(create_sa): sa created, (sa) sa_dest= 172.16.172.41, sa_prot= 50, sa_spi= **0x502A71B5(1344958901)**,
!--- SPI that is used on outbound SA. sa_trans= esp-3des esp-md5-hmac , sa_conn_id= 2001 4d05h:

```

ISAKMP (0:3): Creating IPsec SAs 4d05h: inbound SA from 172.16.172.41 to 172.16.172.46 (proxy
0.0.0.0 to 192.168.253.0) 4d05h: has spi 0xA8C469EC and conn_id 2002 and flags 4 4d05h: lifetime
of 28800 seconds 4d05h: outbound SA from 172.16.172.46 to 172.16.172.41 (proxy 192.168.253.0 to
0.0.0.0 ) 4d05h: has spi 653862918 and conn_id 2003 and flags C 4d05h: lifetime of 28800 seconds
4d05h: ISAKMP (0:3): sending packet to 172.16.172.41 (I) QM_IDLE 4d05h: ISAKMP (0:3): deleting
node -1102788797 error FALSE reason "" 4d05h: ISAKMP (0:3): Node -1102788797, Input =
IKE_MSG_FROM_PEER, IKE_QM_EXCH Old State = IKE_QM_I_QM1 New State = IKE_QM_PHASE2_COMPLETE
4d05h: ISAKMP: received ke message (4/1) 4d05h: ISAKMP: Locking CONFIG struct 0x81F433A4 for
crypto_ikmp_config_handle_kei_mess, count 3 4d05h: EZVPN(SJVPN): Current State: SS_OPEN 4d05h:
EZVPN(SJVPN): Event: MTU_CHANGED 4d05h: EZVPN(SJVPN): No state change 4d05h: IPSEC(key_engine):
got a queue event... 4d05h: IPSEC(initialize_sas): , (key eng. msg.) INBOUND local=
172.16.172.46, remote= 172.16.172.41, local_proxy= 192.168.253.0/255.255.255.0/0/0 (type=4),
remote_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), protocol= ESP, transform= esp-3des esp-md5-hmac ,
lifedur= 28800s and 0kb, spi= 0xA8C469EC(2831444460), conn_id= 2002, keysize= 0, flags= 0x4
4d05h: IPSEC(initialize_sas): , (key eng. msg.) OUTBOUND local= 172.16.172.46, remote=
172.16.172.41, local_proxy= 192.168.253.0/255.255.255.0/0/0 (type=4),
remote_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4),
    protocol= ESP, transform= esp-3des esp-md5-hmac ,
    lifedur= 28800s and 0kb,
    spi= 0x26F92806(653862918), conn_id= 2003, keysize= 0, flags= 0xC
4d05h: IPSEC(create_sa): sa created,
(sa) sa_dest= 172.16.172.46, sa_prot= 50,
    sa_spi= 0xA8C469EC(2831444460) ,
sa_trans= esp-3des esp-md5-hmac , sa_conn_id= 2002
4d05h: IPSEC(create_sa): sa created,
(sa) sa_dest= 172.16.172.41, sa_prot= 50,
    sa_spi= 0x26F92806(653862918) ,
sa_trans= esp-3des esp-md5-hmac , sa_conn_id= 2003
4d05h: ISAKMP: received ke message (4/1)
4d05h: ISAKMP: Locking CONFIG struct 0x81F433A4 for
    crypto_ikmp_config_handle_kei_mess, count 4
4d05h: EZVPN(SJVPN): Current State: SS_OPEN
4d05h: EZVPN(SJVPN): Event: SOCKET_UP
4d05h: ezvpn_socket_up
4d05h: EZVPN(SJVPN): New State: IPSEC_ACTIVE
4d05h: EZVPN(SJVPN): Current State: IPSEC_ACTIVE
4d05h: EZVPN(SJVPN): Event: MTU_CHANGED
4d05h: EZVPN(SJVPN): No state change
4d05h: EZVPN(SJVPN): Current State: IPSEC_ACTIVE
4d05h: EZVPN(SJVPN): Event: SOCKET_UP
4d05h: ezvpn_socket_up
4d05h: EZVPN(SJVPN): No state change

```

[Comandos show de Cisco IOS relacionados para la resolución de problemas](#)

```
1721-1(ADSL)#show crypto ipsec client ezvpn
```

```

Tunnel name : SJVPN
Inside interface list: Loopback0, Loopback1,
Outside interface: FastEthernet0
Current State: IPSEC_ACTIVE
Last Event: SOCKET_UP

```

```
1721-1(ADSL)#show crypto isakmp sa
```

dst	src	state	conn-id	slot
172.16.172.41	172.16.172.46	QM_IDLE	3	0

```
1721-1(ADSL)#show crypto ipsec sa
```

```

interface: FastEthernet0
Crypto map tag: FastEthernet0-head-0, local addr. 172.16.172.46
local ident (addr/mask/prot/port): (192.168.253.0/255.255.255.0/0/0)

```

remote ident (addr/mask/prot/port): (0.0.0.0/0.0.0.0/0/0)

current_peer: **172.16.172.41**

PERMIT, flags={origin_is_acl,}

#pkts encaps: 100, #pkts **encrypt: 100**, #pkts digest 100

#pkts decaps: 100, #pkts **decrypt: 100**, #pkts verify 100

#pkts compressed: 0, #pkts decompressed: 0

#pkts not compressed: 0, #pkts compr. failed: 0, #pkts decompress failed: 0

#send errors 0, #recv errors 0

local crypto endpt.: 172.16.172.46, remote crypto endpt.: 172.16.172.41

path mtu 1500, media mtu 1500

current outbound spi: 26F92806

inbound esp sas:

spi: **0xA8C469EC(2831444460)**

transform: esp-3des esp-md5-hmac ,

in use settings = {Tunnel, }

slot: 0, conn id: 2002, flow_id: 3, crypto map: FastEthernet0-head-0

sa timing: remaining key lifetime (k/sec): (4607848/28656)

IV size: 8 bytes

replay detection support: Y

inbound ah sas:

inbound pcp sas:

outbound esp sas:

spi: **0x26F92806(653862918)**

transform: esp-3des esp-md5-hmac ,

in use settings = {Tunnel, }

slot: 0, conn id: 2003, flow_id: 4, crypto map: FastEthernet0-head-0

sa timing: remaining key lifetime (k/sec): (4607848/28647)

IV size: 8 bytes

replay detection support: Y

outbound ah sas:

outbound pcp sas:

local ident (addr/mask/prot/port): (**192.168.254.0**/255.255.255.0/0/0)

remote ident (addr/mask/prot/port): (0.0.0.0/0.0.0.0/0/0)

current_peer: **172.16.172.41**

PERMIT, flags={origin_is_acl,}

#pkts encaps: 105, #pkts **encrypt: 105**, #pkts digest 105

#pkts decaps: 105, #pkts **decrypt: 105**, #pkts verify 105

#pkts compressed: 0, #pkts decompressed: 0

#pkts not compressed: 0, #pkts compr. failed: 0, #pkts decompress failed: 0

#send errors 0, #recv errors 0

local crypto endpt.: 172.16.172.46, remote crypto endpt.: 172.16.172.41

path mtu 1500, media mtu 1500

current outbound spi: 502A71B5

inbound esp sas:

spi: **0x3C77C53D(1014482237)**

transform: esp-3des esp-md5-hmac ,

in use settings = {Tunnel, }

slot: 0, conn id: 2000, flow_id: 1, crypto map: FastEthernet0-head-0

sa timing: remaining key lifetime (k/sec): (4607847/28644)

IV size: 8 bytes

replay detection support: Y

inbound ah sas:

inbound pcp sas:

outbound esp sas:

```
spi: 0x502A71B5(1344958901)
  transform: esp-3des esp-md5-hmac ,
  in use settings = {Tunnel, }
  slot: 0, conn id: 2001, flow_id: 2, crypto map: FastEthernet0-head-0
  sa timing: remaining key lifetime (k/sec): (4607847/28644)
  IV size: 8 bytes
  replay detection support: Y
```

outbound ah sas:

outbound pcp sas:

[Borrar un Túnel Activo](#)

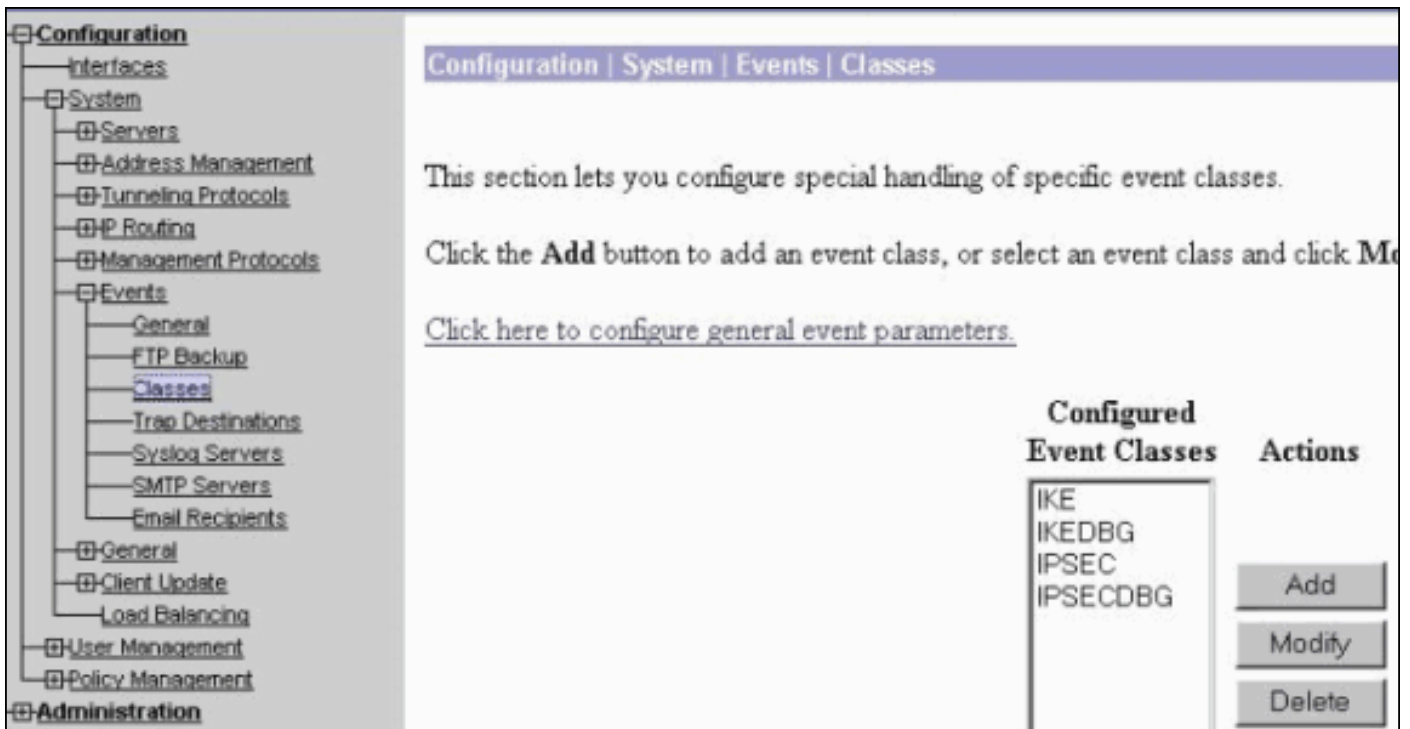
Puede borrar los túneles con estos comandos:

- `clear crypto isakmp`
- `clear crypto sa`
- `clear crypto ipsec client ezvpn`

Nota: Puede utilizar el VPN Concentrator para cerrar la sesión cuando elija **Administration > Admin Sessions**, seleccione el usuario en **Remote Access Session** y haga clic en **logout**.

[Depuración del concentrador de la VPN 3000](#)

Elija **Configuration > System > Events > Classes** para habilitar esta depuración si hay fallas de conexión a eventos. Siempre puede agregar más clases si las que se muestran no le ayudan a identificar el problema.



Para ver el registro de eventos actual en la memoria, filtrable por clase de evento, gravedad, dirección IP, etc., elija **Monitoring > Filterable Event log**.



Para ver las estadísticas del protocolo IPsec, elija **Monitoring > Statistics > IPsec**. Esta ventana muestra las estadísticas de actividad de IPsec, incluidos los túneles IPsec actuales, en el concentrador VPN desde que se inició o restableció por última vez. Estas estadísticas se ajustan al borrador IETF para la MIB de Monitoreo de Flujo IPsec. La ventana **Monitoring > Sessions > Detail** también muestra los datos de IPsec.

IKE (Phase 1) Statistics		IPSec (Phase 2) Statistics	
Active Tunnels	1	Active Tunnels	2
Total Tunnels	122	Total Tunnels	362
Received Bytes	2057442	Received Bytes	0
Sent Bytes	332256	Sent Bytes	1400
Received Packets	3041	Received Packets	0
Sent Packets	2128	Sent Packets	5
Received Packets Dropped	1334	Received Packets Dropped	0
Sent Packets Dropped	0	Received Packets Dropped (Anti-Replay)	0
Received Notifies	15	Sent Packets Dropped	0
Sent Notifies	254	Inbound Authentications	0
Received Phase-2 Exchanges	362		

Qué Puede Salir Mal

- El router Cisco IOS se bloquea en el estado AG_INIT_EXCH. Mientras resuelve problemas, active las depuraciones de IPsec e ISAKMP con estos comandos: `debug crypto ipsecdebug crypto isakmpdebug crypto ezvpn` En el router Cisco IOS, verá lo siguiente:

```
5d16h: ISAKMP (0:9): beginning Aggressive Mode exchange
5d16h: ISAKMP (0:9): sending packet to 10.48.66.115 (I) AG_INIT_EXCH
5d16h: ISAKMP (0:9): retransmitting phase 1 AG_INIT_EXCH...
5d16h: ISAKMP (0:9): incrementing error counter on sa: retransmit phase 1
5d16h: ISAKMP (0:9): retransmitting phase 1 AG_INIT_EXCH
5d16h: ISAKMP (0:9): sending packet to 10.48.66.115 (I) AG_INIT_EXCH
5d16h: ISAKMP (0:9): retransmitting phase 1 AG_INIT_EXCH...
5d16h: ISAKMP (0:9): incrementing error counter on sa: retransmit phase 1
5d16h: ISAKMP (0:9): retransmitting phase 1 AG_INIT_EXCH
5d16h: ISAKMP (0:9): sending packet to 10.48.66.115 (I) AG_INIT_EXCH
5d16h: ISAKMP (0:9): retransmitting phase 1 AG_INIT_EXCH...
5d16h: ISAKMP (0:9): incrementing error counter on sa: retransmit phase 1
5d16h: ISAKMP (0:9): retransmitting phase 1 AG_INIT_EXCH
5d16h: ISAKMP (0:9): sending packet to 10.48.66.115 (I) AG_INIT_EXCH
```

En el concentrador VPN 3000, se requiere Xauth. Sin embargo, la propuesta seleccionada no es compatible con Xauth. Verifique que la [autenticación interna para Xauth](#) esté especificada. Habilite la autenticación interna y asegúrese de que las propuestas IKE tengan el modo de autenticación establecido en **Claves previamente compartidas (Xauth)**, como en la [captura de pantalla](#) anterior. Haga clic en **Modificar** para editar la propuesta.

- La contraseña es incorrecta. No ve el mensaje **Invalid Password** en el router Cisco IOS. En el concentrador VPN, puede ver **Evento inesperado recibido EV_ACTIVATE_NEW_SA** en el estado **AM_TM_INIT_XAUTH**. Asegúrese de que la contraseña es correcta.
- El nombre de usuario es incorrecto. En el router del IOS de Cisco verá un debug similar a éste si tiene la contraseña incorrecta. En el concentrador VPN verá **Autenticación rechazada: Motivo = No se encontró el usuario**.

Información Relacionada

- [Página de soporte del concentrador de la serie Cisco VPN 3000](#)
- [Fase II de Cisco Easy VPN Remote](#)
- [Página de soporte al cliente Serie Cisco VPN 3000](#)
- [Página de Soporte de IPSec Negotiation/IKE Protocols](#)
- [Soporte Técnico y Documentación - Cisco Systems](#)