

Túnel IPsec entre el router IOS y el Cliente Cisco VPN 4.x para Windows con el ejemplo de configuración de la autenticación de usuario TACACS+

Contenido

[Introducción](#)

[prerrequisitos](#)

[Requisitos](#)

[Componentes Utilizados](#)

[Convenciones](#)

[Configurar](#)

[Diagrama de la red](#)

[Configuraciones](#)

[Verificación](#)

[Troubleshooting](#)

[Comandos para resolución de problemas](#)

[Registros de router](#)

[Registros del cliente](#)

[Información Relacionada](#)

Introducción

Este documento describe cómo configurar una conexión IPsec entre un router y Cisco Virtual Private Network (VPN) Client 4.x con Terminal Access Controller Access Control System Plus (TACACS+) para la autenticación de usuarios. Las versiones de la versión 12.2(8)T del Cisco IOS ® Software y posterior soportan las conexiones del Cliente Cisco VPN 4.x. VPN Client 4.x utiliza la política Diffie-Hellman (D-H) grupo 2. **El comando isakmp policy - group 2** permite a los clientes 4.x para conectar.

Este documento muestra la autenticación en el servidor TACACS+ con la autorización, tal como asignaciones del Windows Internet Naming Service (TRIUNFOS) y del Domain Naming Service (DNS), realizadas localmente por el router.

Refiera a [configurar al Cliente Cisco VPN 3.x para Windows al IOS usando la autenticación ampliada local](#) para aprender más sobre el escenario donde la autenticación de usuario ocurre localmente en el router del Cisco IOS.

Refiera a [configurar el IPsec entre un router y un Cliente Cisco VPN 4.x del Cisco IOS para Windows usando el RADIUS para la autenticación de usuario](#) para aprender más sobre el escenario donde la autenticación de usuario ocurre externamente con el protocolo RADIUS.

prerrequisitos

Requisitos

Antes de utilizar esta configuración, asegúrese de que cumple con los siguientes requisitos:

- Una agrupación de direcciones que se asignará para el IPSec
- Un grupo nombró el "vpngroup" con una contraseña del "cisco123"
- Autenticación de usuario en un servidor TACACS+

Componentes Utilizados

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

- Cliente Cisco VPN para la versión de Windows 4.0.2D (cualquier cliente VPN debe trabajar 3.x o más adelante.)
- Cisco seguro para el 3.0 de la versión de Windows (cualquier servidor TACACS+ debe trabajar)
- Versión 12.2(8)T1 del Cisco IOS 1710 Router cargada con el conjunto de características del IPSec

La salida del **comando show version** en el router se muestra aquí.

```
1710#show version
Cisco Internetwork Operating System Software
IOS (tm) C1700 Software (C1710-K9O3SY-M),
  Version 12.2(8)T1, RELEASE SOFTWARE (fc2)
TAC Support: http://www.cisco.com/tac
Copyright (c) 1986-2002 by cisco Systems, Inc.
Compiled Sat 30-Mar-02 13:30 by ccai
Image text-base: 0x80008108, data-base: 0x80C1E054

ROM: System Bootstrap, Version 12.2(1r)XE1, RELEASE SOFTWARE (fc1)

1710 uptime is 1 week, 6 days, 22 hours, 30 minutes
System returned to ROM by reload
System image file is "flash:c1710-k9o3sy-mz.122-8.T1"

cisco 1710 (MPC855T) processor (revision 0x200)
  with 27853K/4915K bytes of memory.
Processor board ID JAD052706CX (3234866109), with hardware revision 0000
MPC855T processor: part number 5, mask 2
Bridging software.
X.25 software, Version 3.0.0.
1 Ethernet/IEEE 802.3 interface(s)
1 FastEthernet/IEEE 802.3 interface(s)
1 Virtual Private Network (VPN) Module(s)
32K bytes of non-volatile configuration memory.
16384K bytes of processor board System flash (Read/Write)

Configuration register is 0x2102
```

La información que contiene este documento se creó a partir de los dispositivos en un ambiente de laboratorio específico. Todos los dispositivos que se utilizan en este documento se pusieron en funcionamiento con una configuración verificada (predeterminada). Si la red está funcionando, asegúrese de haber comprendido el impacto que puede tener cualquier comando.

Convenciones

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

[Configurar](#)

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

Nota: Utilice la [herramienta de búsqueda de comandos \(clientes registrados solamente\)](#) para encontrar más información sobre los comandos usados en este documento.

[Diagrama de la red](#)

En este documento, se utiliza esta configuración de red:

Nota: Los esquemas de direccionamiento IP usados en esta configuración no son legalmente enrutables en Internet. Son las direcciones [RFC1918](#) que se han utilizado en un entorno de laboratorio.

[Configuraciones](#)

En este documento, se utilizan estas configuraciones:

- [Router Cisco 1710](#)
- [Servidor TACACS+](#)
- [Cliente VPN 4.x](#)
- [Tunelización dividida](#)

[Router Cisco 1710](#)

```
Router Cisco 1710
1710#show run
Building configuration...

Current configuration : 1884 bytes
!
version 12.2
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
!
hostname 1710
!
!--- Enable authentication, authorization and accounting
(AAA) !--- for user authentication and group
authorization.  aaa new-model
!
!--- In order to enable extended authentication (Xauth)
for user authentication, !--- enable the aaa
authentication commands. !--- The group TACACS+ command
specifies TACACS+ user authentication.

aaa authentication login userauthen group tacacs+
```

```
!--- In order to enable group authorization, !--- enable
the aaa authorization commands.

aaa authorization network groupauthor local
!
!
ip subnet-zero
!
!
!
ip audit notify log
ip audit po max-events 100
!
!--- Create an Internet Security Association and !---
Key Management Protocol (ISAKMP) policy for Phase 1
negotiations. crypto isakmp policy 3
encr 3des
authentication pre-share
group 2
!
!--- Create a group in order to specify the !--- WINS
and DNS server addresses to the VPN Client, !--- along
with the pre-shared key for authentication. crypto
isakmp client configuration group vpngroup
key cisco123
dns 10.2.1.10
wins 10.2.1.20
domain cisco.com
pool ippool
!
!--- Create the Phase 2 policy for actual data
encryption. crypto ipsec transform-set myset esp-3des
esp-sha-hmac
!
!--- Create a dynamic map, and !--- apply the transform
set that was previously created. crypto dynamic-map
dynmap 10
set transform-set myset
!
!--- Create the actual crypto map, !--- and apply the
AAA lists that were created earlier. crypto map
clientmap client authentication list userauthen
crypto map clientmap isakmp authorization list
groupauthor
crypto map clientmap client configuration address
respond
crypto map clientmap 10 ipsec-isakmp dynamic dynmap
!
!
fax interface-type fax-mail
mta receive maximum-recipients 0
!
!
!
!--- Apply the crypto map on the outside interface.
interface FastEthernet0
ip address 172.18.124.158 255.255.255.0
crypto map clientmap
!
interface Ethernet0
ip address 10.38.50.51 255.255.0.0
!
```

```

!--- Create a pool of addresses to be assigned to the
VPN Clients. ip local pool ippool 10.1.1.100 10.1.1.200
ip classless
ip route 0.0.0.0 0.0.0.0 172.18.124.1
ip route 172.16.124.0 255.255.255.0 10.38.1.1
ip route 10.2.1.0 255.255.255.0 10.38.1.1
ip http server
ip pim bidir-enable
!
!
!
!--- Specify the IP address of the TACACS+ server, !---
along with the TACACS+ shared secret key. tacacs-server
host 172.16.124.96 key cisco123
!
!
line con 0
  exec-timeout 0 0
line aux 0
line vty 0 4
!
!
end

```

Servidor TACACS+

Para configurar el servidor TACACS+, complete estos pasos:

1. El tecleo **agrega la entrada** para agregar una entrada para el router en la base de datos del servidor TACACS+.
2. En la página del cliente AAA del agregar, ingrese la información del router tal y como se muestra en de esta imagen:En Nombre del host del cliente AAA el campo, ingrese un nombre para el router.En el campo del IP Address del cliente AAA, ingrese **10.38.50.51**.En el campo clave, ingrese el **cisco123** como la clave secreta compartida.De la autenticidad usando la lista desplegable, elija **TACACS+ (Cisco IOS)**, y el tecleo **somete**.
3. En el campo del usuario, ingrese el Nombre de usuario para el usuario de VPN en la base de datos segura de Cisco, y el tecleo **agrega/edita**.En este ejemplo, el Nombre de usuario es *Cisco*.
4. En la página siguiente, ingrese y confirme la contraseña para el usuario *Cisco*.En este ejemplo, la contraseña es también *Cisco*.
5. Si usted quiere asociar la cuenta de usuario a un grupo, completo que ahora camina. Cuando usted acaba, el tecleo **somete**.

Cliente VPN 4.x

Para configurar al cliente VPN 4.x, complete estos pasos:

1. Ejecute el cliente de VPN, y tecleo **nuevo** para crear una nueva conexión.El cliente VPN crea el nuevo cuadro del cuadro de diálogo de entrada de la conexión VPN aparece.
2. En el nuevo rectángulo del cuadro de diálogo de entrada de la conexión VPN del crear, ingrese la información de conexión tal y como se muestra en de esta imagen:En Entrada de conexión el campo, ingrese un nombre para la conexión.En los campos de la descripción y del host, ingrese una descripción y el IP Address del host para Entrada de conexión.En la

lengueta de la autenticación, haga clic el botón de radio de la **autenticación del grupo**, y ingrese el nombre y la contraseña del usuario. Haga clic la **salvaguardia** para salvar la conexión.

3. En la ventana del cliente VPN, seleccione Entrada de conexión el ese usted creó, y el tecleo **conecta** para conectar con el router.
4. Mientras que el IPsec negocia, le indican para un Nombre de usuario y una contraseña. Ingrese un Nombre de usuario y una contraseña. La ventana visualiza estos mensajes: De “perfiles de seguridad negociación.” “Su link es seguro ahora.”

Tunelización dividida

Para habilitar el Túnel dividido para las conexiones VPN, asegúrese le configurar un Access Control List (ACL) en el router. En este ejemplo, asocian al **comando access-list 102** al grupo para los fines de tunelización dividida, y el túnel se forma a las redes 10.38.X.X /16 y 10.2.x.x. Flujos de tráfico unencrypted a los dispositivos no en el ACL 102 (por ejemplo, Internet).

```
access-list 102 permit ip 10.38.0.0 0.0.255.255 10.1.1.0 0.0.0.255
access-list 102 permit ip 10.2.0.0 0.0.255.255 10.1.1.0 0.0.0.255
```

Aplicar ACL en las propiedades del grupo.

```
crypto isakmp client configuration group vpngroup
key cisco123
dns 10.2.1.10
wins 10.2.1.20
domain cisco.com
pool ippool
acl 102
```

Verificación

En esta sección encontrará información que puede utilizar para comprobar que su configuración funciona correctamente.

La herramienta [Output Interpreter Tool](#) ([solo para clientes registrados](#)) soporta ciertos comandos show. Esta herramienta permite que usted vea una análisis de la salida del comando show.

```
1710#show crypto isakmp sa
dst          src          state          conn-id    slot
172.18.124.158 192.168.60.34 QM_IDLE        3          0

1710#show crypto ipsec sa

interface: FastEthernet0
Crypto map tag: clientmap, local addr. 172.18.124.158

local ident (addr/mask/prot/port): (172.18.124.158/255.255.255.255/0/0)
remote ident (addr/mask/prot/port): (10.1.1.114/255.255.255.255/0/0)
current_peer: 192.168.60.34
PERMIT, flags={}
#pkts encaps: 0, #pkts encrypt: 0, #pkts digest 0
#pkts decaps: 0, #pkts decrypt: 0, #pkts verify 0
#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.: 172.18.124.158, remote crypto endpt.: 192.168.60.34
path mtu 1500, media mtu 1500
current outbound spi: 8F9BB05F

inbound esp sas:
spi: 0x61C53A64(1640315492)
transform: esp-3des esp-sha-hmac ,
in use settings ={Tunnel, }
slot: 0, conn id: 200, flow_id: 1, crypto map: clientmap
sa timing: remaining key lifetime (k/sec): (4608000/3294)
IV size: 8 bytes
replay detection support: Y

inbound ah sas:

inbound pcp sas:

outbound esp sas:
spi: 0x8F9BB05F(2409345119)
transform: esp-3des esp-sha-hmac ,
in use settings ={Tunnel, }
slot: 0, conn id: 201, flow_id: 2, crypto map: clientmap
sa timing: remaining key lifetime (k/sec): (4608000/3294)
IV size: 8 bytes
replay detection support: Y

outbound ah sas:

outbound pcp sas:

local ident (addr/mask/prot/port): (10.38.0.0/255.255.0.0/0/0)
remote ident (addr/mask/prot/port): (10.1.1.114/255.255.255.255/0/0)
current_peer: 192.168.60.34
PERMIT, flags={}
#pkts encaps: 3, #pkts encrypt: 3, #pkts digest 3
#pkts decaps: 3, #pkts decrypt: 3, #pkts verify 3
#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.: 172.18.124.158, remote crypto endpt.: 192.168.60.34
path mtu 1500, media mtu 1500
current outbound spi: 8B57E45E

inbound esp sas:
spi: 0x89898D1A(2307493146)
transform: esp-3des esp-sha-hmac ,
in use settings ={Tunnel, }
slot: 0, conn id: 202, flow_id: 3, crypto map: clientmap
sa timing: remaining key lifetime (k/sec): (4607999/3452)
IV size: 8 bytes
replay detection support: Y

inbound ah sas:

inbound pcp sas:

outbound esp sas:
spi: 0x8B57E45E(2337793118)
transform: esp-3des esp-sha-hmac ,
in use settings ={Tunnel, }

```
slot: 0, conn id: 203, flow_id: 4, crypto map: clientmap
sa timing: remaining key lifetime (k/sec): (4607999/3452)
IV size: 8 bytes
replay detection support: Y
```

outbound ah sas:

outbound pcp sas:

```
1710#show crypto engine connections active
```

ID	Interface	IP-Address	State	Algorithm	Encrypt	Decrypt
2	FastEthernet0	172.18.124.158	set	HMAC_SHA+3DES_56_C	0	0
200	FastEthernet0	172.18.124.158	set	HMAC_SHA+3DES_56_C	0	0
201	FastEthernet0	172.18.124.158	set	HMAC_SHA+3DES_56_C	0	0
202	FastEthernet0	172.18.124.158	set	HMAC_SHA+3DES_56_C	0	3
203	FastEthernet0	172.18.124.158	set	HMAC_SHA+3DES_56_C	3	0

Troubleshooting

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

Comandos para resolución de problemas

[La herramienta Output Interpreter Tool \(clientes registrados solamente\)](#) (OIT) soporta ciertos comandos show. Utilice el OIT para ver una análisis de la salida del comando show.

Nota: Consulte [Información Importante sobre Comandos de Debug](#) antes de usar un comando debug.

- **IPSec del debug crypto** — Información del debug de las visualizaciones sobre las conexiones del IPSec.
- **isakmp del debug crypto** — La información del debug de las visualizaciones sobre las conexiones del IPSec y muestra el primer conjunto de los atributos que se niegan debido a las incompatibilidades en los ambos extremos.
- **debug crypto engine** — Muestra información del motor de criptografía.
- **debug aaa authentication** — Muestra información sobre autenticación de AAA/TACACS+.
- **debug aaa authorization** — Visualiza la información sobre la autorización AAA/TACACS+.
- **tacacs del debug** — Visualiza la información que permite que usted resuelva problemas la comunicación entre el servidor TACACS+ y el router.

Registros de router

```
1710#show debug
General OS:
TACACS access control debugging is on
AAA Authentication debugging is on
AAA Authorization debugging is on
Cryptographic Subsystem:
Crypto ISAKMP debugging is on
Crypto Engine debugging is on
Crypto IPSEC debugging is on
```


1710#

1w6d: ISAKMP (0:0): received packet from 192.168.60.34 (N) NEW SA

1w6d: ISAKMP: local port 500, remote port 500

1w6d: ISAKMP (0:2): (Re)Setting client xauth list userauthen and state

1w6d: ISAKMP: Locking CONFIG struct 0x8158B894 from

crypto_ikmp_config_initialize_sa, count 2

1w6d: ISAKMP (0:2): processing SA payload. message ID = 0

1w6d: ISAKMP (0:2): processing ID payload. message ID = 0

1w6d: ISAKMP (0:2): processing vendor id payload

1w6d: ISAKMP (0:2): vendor ID seems Unity/DPD but bad major

1w6d: ISAKMP (0:2): vendor ID is XAUTH

1w6d: ISAKMP (0:2): processing vendor id payload

1w6d: ISAKMP (0:2): vendor ID is DPD

1w6d: ISAKMP (0:2): processing vendor id payload

1w6d: ISAKMP (0:2): vendor ID is Unity

1w6d: ISAKMP (0:2): Checking ISAKMP transform 1 against priority 3 policy

1w6d: ISAKMP: encryption 3DES-CBC

1w6d: ISAKMP: hash SHA

1w6d: ISAKMP: default group 2

1w6d: ISAKMP: auth XAUTHInitPreShared

1w6d: ISAKMP: life type in seconds

1w6d: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B

1w6d: ISAKMP (0:2): atts are acceptable. Next payload is 3

1w6d: CryptoEngine0: generate alg parameter

1w6d: CryptoEngine0: CRYPTO_ISA_DH_CREATE(hw)(ipsec)

1w6d: CRYPTO_ENGINE: Dh phase 1 status: 0

1w6d: ISAKMP (0:2): processing KE payload. message ID = 0

1w6d: CryptoEngine0: generate alg parameter

1w6d: CryptoEngine0: CRYPTO_ISA_DH_SHARE_SECRET(hw)(ipsec)

1w6d: ISAKMP (0:2): processing NONCE payload. message ID = 0

1w6d: ISAKMP (0:2): processing vendor id payload

1w6d: ISAKMP (0:2): processing vendor id payload

1w6d: ISAKMP (0:2): processing vendor id payload

1w6d: AAA: parse name=ISAKMP-ID-AUTH idb type=-1 tty=-1

1w6d: AAA/MEMORY: create_user (0x817F63F4) user='vpngroup' ruser='NULL' ds0=0

port='ISAKMP-ID-AUTH' rem_addr='192.168.60.34' authen_type=NONE

service=LOGIN priv=0 initial_task_id='0'

1w6d: ISAKMP (0:2): Input = IKE_MESG_FROM_PEER, IKE_AM_EXCH

Old State = IKE_READY New State = IKE_R_AM_AAA_AWAIT

1w6d: ISAKMP-ID-AUTH AAA/AUTHOR/CRYPTO AAA(1472763894):

Port='ISAKMP-ID-AUTH' list='groupauthor' service=NET

1w6d: AAA/AUTHOR/CRYPTO AAA: ISAKMP-ID-AUTH(1472763894) user='vpngroup'

1w6d: ISAKMP-ID-AUTH AAA/AUTHOR/CRYPTO AAA(1472763894): send AV service=ike

1w6d: ISAKMP-ID-AUTH AAA/AUTHOR/CRYPTO AAA(1472763894): send AV protocol=ipsec

1w6d: ISAKMP-ID-AUTH AAA/AUTHOR/CRYPTO AAA(1472763894): found list "groupauthor"

1w6d: ISAKMP-ID-AUTH AAA/AUTHOR/CRYPTO AAA(1472763894): Method=LOCAL

1w6d: AAA/AUTHOR (1472763894): Post authorization status = PASS_ADD

1w6d: ISAKMP: got callback 1

AAA/AUTHOR/IKE: Processing AV service=ike

AAA/AUTHOR/IKE: Processing AV protocol=ipsec

AAA/AUTHOR/IKE: Processing AV tunnel-password=cisco123

AAA/AUTHOR/IKE: Processing AV default-domain*cisco.com

AAA/AUTHOR/IKE: Processing AV addr-pool*ippool

AAA/AUTHOR/IKE: Processing AV key-exchange=ike

AAA/AUTHOR/IKE: Processing AV timeout*0

AAA/AUTHOR/IKE: Processing AV idletime*0

AAA/AUTHOR/IKE: Processing AV inacl*102

AAA/AUTHOR/IKE: Processing AV dns-servers*10.1.1.10 0.0.0.0

AAA/AUTHOR/IKE: Processing AV wins-servers*10.1.1.20 0.0.0.0

1w6d: CryptoEngine0: create ISAKMP SKEYID for conn id 2

1w6d: CryptoEngine0: CRYPTO_ISA_SA_CREATE(hw)(ipsec)

1w6d: ISAKMP (0:2): SKEYID state generated

1w6d: ISAKMP (0:2): SA is doing pre-shared key authentication plus

```
XAUTH using id type ID_IPV4_ADDR
lw6d: ISAKMP (2): ID payload
next-payload : 10
type : 1
protocol : 17
port : 500
length : 8
lw6d: ISAKMP (2): Total payload length: 12
lw6d: CryptoEngine0: generate hmac context for conn id 2
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
lw6d: ISAKMP (0:2): sending packet to 192.168.60.34 (R) AG_INIT_EXCH
lw6d: ISAKMP (0:2): Input = IKE_MESG_FROM_AAA, PRESHARED_KEY_REPLY
Old State = IKE_R_AM_AAA_AWAIT New State = IKE_R_AM2

lw6d: AAA/MEMORY: free_user (0x817F63F4) user='vpngroup'
      ruser='NULL' port='ISAK MP-ID-AUTH' rem_addr='192.168.60.34'
      authen_type=NONE service=LOGIN priv=0
lw6d: ISAKMP (0:2): received packet from 192.168.60.34 (R) AG_INIT_EXCH
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_DECRYPT(hw)(ipsec)
lw6d: ISAKMP (0:2): processing HASH payload. message ID = 0
lw6d: CryptoEngine0: generate hmac context for conn id 2
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
lw6d: ISAKMP (0:2): processing NOTIFY INITIAL_CONTACT protocol 1
      spi 0, message ID = 0, sa = 81673884
lw6d: ISAKMP (0:2): Process initial contact, bring down
      existing phase 1 and 2 SA's
lw6d: ISAKMP (0:2): returning IP addr to the address pool: 10.1.1.113
lw6d: ISAKMP (0:2): returning address 10.1.1.113 to pool
lw6d: ISAKMP (0:2): peer does not do paranoid keepalives.

lw6d: ISAKMP (0:2): SA has been authenticated with 192.168.60.34
lw6d: CryptoEngine0: clear dh number for conn id 1
lw6d: CryptoEngine0: CRYPTO_ISA_DH_DELETE(hw)(ipsec)
lw6d: IPSEC(key_engine): got a queue event...
lw6d: IPSEC(key_engine_delete_sas): rec'd delete notify from ISAKMP
lw6d: IPSEC(key_engine_delete_sas): delete all SAs shared with 192.168.60.34
lw6d: CryptoEngine0: generate hmac context for conn id 2
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_ENCRYPT(hw)(ipsec)
lw6d: ISAKMP (0:2): sending packet to 192.168.60.34 (R) QM_IDLE
lw6d: ISAKMP (0:2): purging node 1324880791
lw6d: ISAKMP: Sending phase 1 responder lifetime 86400

lw6d: ISAKMP (0:2): Input = IKE_MESG_FROM_PEER, IKE_AM_EXCH
Old State = IKE_R_AM2 New State = IKE_P1_COMPLETE

lw6d: ISAKMP (0:2): Need XAUTH
lw6d: AAA: parse name=ISAKMP idb type=-1 tty=-1
lw6d: AAA/MEMORY: create_user (0x812F79FC) user='NULL'
      ruser='NULL' ds0=0 port='
ISAKMP' rem_addr='192.168.60.34' authen_type=ASCII service=LOGIN
      priv=0 initial_task_id='0'
lw6d: ISAKMP (0:2): Input = IKE_MESG_INTERNAL, IKE_PHASE1_COMPLETE
Old State = IKE_P1_COMPLETE New State = IKE_XAUTH_AAA_START_LOGIN_AWAIT

lw6d: AAA/AUTHEN/START (2017610393): port='ISAKMP' list='userauthen'
      action=LOGIN service=LOGIN
lw6d: AAA/AUTHEN/START (2017610393): found list userauthen
lw6d: AAA/AUTHEN/START (2017610393): Method=tacacs+ (tacacs+)
lw6d: TAC+: send AUTHEN/START packet ver=192 id=2017610393
lw6d: TAC+: Using default tacacs server-group "tacacs+" list.
lw6d: TAC+: Opening TCP/IP to 172.16.124.96/49 timeout=5
lw6d: TAC+: Opened TCP/IP handle 0x8183D638 to 172.16.124.96/49
lw6d: TAC+: 172.16.124.96 (2017610393) AUTHEN/START/LOGIN/ASCII queued
```

lw6d: TAC+: (2017610393) AUTHEN/START/LOGIN/ASCII processed
lw6d: TAC+: ver=192 id=2017610393 received AUTHEN status = GETUSER
lw6d: AAA/AUTHEN(2017610393): Status=GETUSER
lw6d: ISAKMP: got callback 1
lw6d: ISAKMP/xauth: request attribute XAUTH_TYPE_V2
lw6d: ISAKMP/xauth: request attribute XAUTH_MESSAGE_V2
lw6d: ISAKMP/xauth: request attribute XAUTH_USER_NAME_V2
lw6d: ISAKMP/xauth: request attribute XAUTH_USER_PASSWORD_V2
lw6d: CryptoEngine0: generate hmac context for conn id 2
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
lw6d: ISAKMP (0:2): initiating peer config to 192.168.60.34. ID = 1641488057
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_ENCRYPT(hw)(ipsec)
lw6d: ISAKMP (0:2): sending packet to 192.168.60.34 (R) CONF_XAUTH
lw6d: ISAKMP (0:2): Input = IKE_MSG_FROM_AAA, IKE_AAA_START_LOGIN
Old State = IKE_XAUTH_AAA_START_LOGIN_AWAIT
New State = IKE_XAUTH_REQ_SENT

lw6d: ISAKMP (0:2): received packet from 192.168.60.34 (R) CONF_XAUTH
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_DECRYPT(hw)(ipsec)
lw6d: ISAKMP (0:2): processing transaction payload from 192.168.60.34.
message ID = 1641488057
lw6d: CryptoEngine0: generate hmac context for conn id 2
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
lw6d: ISAKMP: Config payload REPLY
lw6d: ISAKMP/xauth: reply attribute XAUTH_TYPE_V2 unexpected
lw6d: ISAKMP/xauth: reply attribute XAUTH_USER_NAME_V2
lw6d: ISAKMP/xauth: reply attribute XAUTH_USER_PASSWORD_V2
lw6d: ISAKMP (0:2): deleting node 1641488057 error FALSE
reason "done with xauth request/reply exchange"
lw6d: ISAKMP (0:2): Input = IKE_MSG_FROM_PEER, IKE_CFG_REPLY
Old State = IKE_XAUTH_REQ_SENT
New State = IKE_XAUTH_AAA_CONT_LOGIN_AWAIT

lw6d: AAA/AUTHEN/CONT (2017610393): continue_login (user='(undef)')
lw6d: AAA/AUTHEN(2017610393): Status=GETUSER
lw6d: AAA/AUTHEN(2017610393): Method=tacacs+ (tacacs+)
lw6d: TAC+: send AUTHEN/CONT packet id=2017610393
lw6d: TAC+: 172.16.124.96 (2017610393) AUTHEN/CONT queued
lw6d: TAC+: (2017610393) AUTHEN/CONT processed
lw6d: TAC+: ver=192 id=2017610393 received AUTHEN status = GETPASS
lw6d: AAA/AUTHEN(2017610393): Status=GETPASS
lw6d: AAA/AUTHEN/CONT (2017610393): continue_login (user='cisco')
lw6d: AAA/AUTHEN(2017610393): Status=GETPASS
lw6d: AAA/AUTHEN(2017610393): Method=tacacs+ (tacacs+)
lw6d: TAC+: send AUTHEN/CONT packet id=2017610393
lw6d: TAC+: 172.16.124.96 (2017610393) AUTHEN/CONT queued
lw6d: TAC+: (2017610393) AUTHEN/CONT processed
lw6d: TAC+: ver=192 id=2017610393 received AUTHEN status = PASS
lw6d: AAA/AUTHEN(2017610393): Status=PASS
lw6d: ISAKMP: got callback 1
lw6d: TAC+: Closing TCP/IP 0x8183D638 connection to 172.16.124.96/49
lw6d: CryptoEngine0: generate hmac context for conn id 2
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
lw6d: ISAKMP (0:2): initiating peer config to 192.168.60.34. ID = 1736579999
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_ENCRYPT(hw)(ipsec)
lw6d: ISAKMP (0:2): sending packet to 192.168.60.34 (R) CONF_XAUTH
lw6d: ISAKMP (0:2): Input = IKE_MSG_FROM_AAA, IKE_AAA_CONT_LOGIN
Old State = IKE_XAUTH_AAA_CONT_LOGIN_AWAIT
New State = IKE_XAUTH_SET_SENT

lw6d: AAA/MEMORY: free_user (0x812F79FC) user='cisco' ruser='NULL'
port='ISAKMP' rem_addr='192.168.60.34' authen_type=ASCII
service=LOGIN priv=0
lw6d: ISAKMP (0:2): received packet from 192.168.60.34 (R) CONF_XAUTH

```
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_DECRYPT(hw)(ipsec)
lw6d: ISAKMP (0:2): processing transaction payload from 192.168.60.34.
    message ID = 1736579999
lw6d: CryptoEngine0: generate hmac context for conn id 2
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
lw6d: ISAKMP: Config payload ACK
lw6d: ISAKMP (0:2): XAUTH ACK Processed
lw6d: ISAKMP (0:2): deleting node 1736579999 error FALSE
    reason "done with transaction"
lw6d: ISAKMP (0:2): Input = IKE_MSG_FROM_PEER, IKE_CFG_ACK
Old State = IKE_XAUTH_SET_SENT New State = IKE_P1_COMPLETE

lw6d: ISAKMP (0:2): Input = IKE_MSG_INTERNAL, IKE_PHASE1_COMPLETE
Old State = IKE_P1_COMPLETE New State = IKE_P1_COMPLETE

lw6d: ISAKMP (0:2): received packet from 192.168.60.34 (R) QM_IDLE
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_DECRYPT(hw)(ipsec)
lw6d: ISAKMP (0:2): processing transaction payload from 192.168.60.34.
    message ID = 398811763
lw6d: CryptoEngine0: generate hmac context for conn id 2
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
lw6d: ISAKMP: Config payload REQUEST
lw6d: ISAKMP (0:2): checking request:
lw6d: ISAKMP: IP4_ADDRESS
lw6d: ISAKMP: IP4_NETMASK
lw6d: ISAKMP: IP4_DNS
lw6d: ISAKMP: IP4_NBNS
lw6d: ISAKMP: ADDRESS_EXPIRY
lw6d: ISAKMP: APPLICATION_VERSION
lw6d: ISAKMP: UNKNOWN Unknown Attr: 0x7000
lw6d: ISAKMP: UNKNOWN Unknown Attr: 0x7001
lw6d: ISAKMP: DEFAULT_DOMAIN
lw6d: ISAKMP: SPLIT_INCLUDE
lw6d: ISAKMP: UNKNOWN Unknown Attr: 0x7007
lw6d: ISAKMP: UNKNOWN Unknown Attr: 0x7008
lw6d: ISAKMP: UNKNOWN Unknown Attr: 0x7005
lw6d: AAA: parse name=ISAKMP-GROUP-AUTH idb type=-1 tty=-1
lw6d: AAA/MEMORY: create_user (0x812F79FC) user='vpngroup' ruser='NULL' ds0=0 po
rt='ISAKMP-GROUP-AUTH' rem_addr='192.168.60.34' authen_type=NONE service=LOGIN pr
iv=0 initial_task_id='0'
lw6d: ISAKMP (0:2): Input = IKE_MSG_FROM_PEER, IKE_CFG_REQUEST
Old State = IKE_P1_COMPLETE New State = IKE_CONFIG_AUTHOR_AAA_AWAIT

lw6d: ISAKMP-GROUP-AUTH AAA/AUTHOR/CRYPTO AAA(1059453615):
    Port='ISAKMP-GROUP-AUTH' list='groupauthor' service=NET
lw6d: AAA/AUTHOR/CRYPTO AAA: ISAKMP-GROUP-AUTH(1059453615)
    user='vpngroup'
lw6d: ISAKMP-GROUP-AUTH AAA/AUTHOR/CRYPTO AAA(1059453615):
    send AV service=ike
lw6d: ISAKMP-GROUP-AUTH AAA/AUTHOR/CRYPTO AAA(1059453615):
    send AV protocol=ipsec
lw6d: ISAKMP-GROUP-AUTH AAA/AUTHOR/CRYPTO AAA(1059453615):
    found list "groupauthor"
lw6d: ISAKMP-GROUP-AUTH AAA/AUTHOR/CRYPTO AAA(1059453615):
    Method=LOCAL
lw6d: AAA/AUTHOR (1059453615): Post authorization status = PASS_ADD
lw6d: ISAKMP: got callback 1
AAA/AUTHOR/IKE: Processing AV service=ike
AAA/AUTHOR/IKE: Processing AV protocol=ipsec
AAA/AUTHOR/IKE: Processing AV tunnel-password=cisco123
AAA/AUTHOR/IKE: Processing AV default-domain*cisco.com
AAA/AUTHOR/IKE: Processing AV addr-pool*ippool
AAA/AUTHOR/IKE: Processing AV key-exchange=ike
AAA/AUTHOR/IKE: Processing AV timeout*0
```

```
AAA/AUTHOR/IKE: Processing AV idletime*0
AAA/AUTHOR/IKE: Processing AV inacl*102
AAA/AUTHOR/IKE: Processing AV dns-servers*10.1.1.10 0.0.0.0
AAA/AUTHOR/IKE: Processing AV wins-servers*10.1.1.20 0.0.0.0
1w6d: ISAKMP (0:2): attributes sent in message:
1w6d: Address: 0.2.0.0
1w6d: ISAKMP (0:2): allocating address 10.1.1.114
1w6d: ISAKMP: Sending private address: 10.1.1.114
1w6d: ISAKMP: Unknown Attr: IP4_NETMASK (0x2)
1w6d: ISAKMP: Sending IP4_DNS server address: 10.1.1.10
1w6d: ISAKMP: Sending IP4_NBNS server address: 10.1.1.20
1w6d: ISAKMP: Sending ADDRESS_EXPIRY seconds left to use the address: 86396
1w6d: ISAKMP: Sending APPLICATION_VERSION string:
  Cisco Internetwork Operating System Software IOS (tm) C1700 Software
  (C1710-K9O3SY-M), Version 12.2(8)T1, RELEASE SOFTWARE (fc2)
  TAC Support: http://www.cisco.com/tac
  Copyright (c) 1986-2002 by cisco Systems, Inc.
  Compiled Sat 30-Mar-02 13:30 by ccai
1w6d: ISAKMP: Unknown Attr: UNKNOWN (0x7000)
1w6d: ISAKMP: Unknown Attr: UNKNOWN (0x7001)
1w6d: ISAKMP: Sending DEFAULT_DOMAIN default domain name: cisco.com
1w6d: ISAKMP: Sending split include name 102 network 10.38.0.0
  mask 255.255.0.0 protocol 0, src port 0, dst port 0

1w6d: ISAKMP: Unknown Attr: UNKNOWN (0x7007)
1w6d: ISAKMP: Unknown Attr: UNKNOWN (0x7008)
1w6d: ISAKMP: Unknown Attr: UNKNOWN (0x7005)
1w6d: CryptoEngine0: generate hmac context for conn id 2
1w6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
1w6d: ISAKMP (0:2): responding to peer config from 192.168.60.34. ID = 398811763
1w6d: CryptoEngine0: CRYPTO_ISA_IKE_ENCRYPT(hw)(ipsec)
1w6d: ISAKMP (0:2): sending packet to 192.168.60.34 (R) CONF_ADDR
1w6d: ISAKMP (0:2): deleting node 398811763 error FALSE reason ""
1w6d: ISAKMP (0:2): Input = IKE_MSG_FROM_AAA, IKE_AAA_GROUP_ATTR
Old State = IKE_CONFIG_AUTHOR_AAA_AWAIT New State = IKE_P1_COMPLETE

1w6d: AAA/MEMORY: free_user (0x812F79FC) user='vpngroup'
  ruser='NULL' port='ISAKMP-GROUP-AUTH' rem_addr='192.168.60.34'
  authn_type=NONE service=LOGIN priv=0
1w6d: ISAKMP (0:2): received packet from 192.168.60.34 (R) QM_IDLE
1w6d: CryptoEngine0: CRYPTO_ISA_IKE_DECRYPT(hw)(ipsec)
1w6d: CryptoEngine0: generate hmac context for conn id 2
1w6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
1w6d: ISAKMP (0:2): processing HASH payload. message ID = 1369459046
1w6d: ISAKMP (0:2): processing SA payload. message ID = 1369459046
1w6d: ISAKMP (0:2): Checking IPsec proposal 1
1w6d: ISAKMP: transform 1, ESP_3DES
1w6d: ISAKMP: attributes in transform:
1w6d: ISAKMP: authenticator is HMAC-MD5
1w6d: ISAKMP: encaps is 1
1w6d: ISAKMP: SA life type in seconds
1w6d: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
1w6d: validate proposal 0
1w6d: IPSEC(validate_proposal): transform proposal
  (prot 3, trans 3, hmac_alg 1) not supported
1w6d: ISAKMP (0:2): atts not acceptable. Next payload is 0
1w6d: ISAKMP (0:2): skipping next ANDed proposal (1)
1w6d: ISAKMP (0:2): Checking IPsec proposal 2
1w6d: ISAKMP: transform 1, ESP_3DES
1w6d: ISAKMP: attributes in transform:
1w6d: ISAKMP: authenticator is HMAC-SHA
1w6d: ISAKMP: encaps is 1
1w6d: ISAKMP: SA life type in seconds
1w6d: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
```

lw6d: validate proposal 0
lw6d: ISAKMP (0:2): atts are acceptable.
lw6d: ISAKMP (0:2): Checking IPsec proposal 2
lw6d: ISAKMP (0:2): transform 1, IPPCP LZS
lw6d: ISAKMP: attributes in transform:
lw6d: ISAKMP: encaps is 1
lw6d: ISAKMP: SA life type in seconds
lw6d: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
lw6d: IPSEC(validate_proposal): transform proposal
 (prot 4, trans 3, hmac_alg 0) not supported
lw6d: ISAKMP (0:2): atts not acceptable. Next payload is 0
lw6d: ISAKMP (0:2): Checking IPsec proposal 3
lw6d: ISAKMP: transform 1, ESP_3DES
lw6d: ISAKMP: attributes in transform:
lw6d: ISAKMP: authenticator is HMAC-MD5
lw6d: ISAKMP: encaps is 1
lw6d: ISAKMP: SA life type in seconds
lw6d: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
lw6d: validate proposal 0
lw6d: IPSEC(validate_proposal): transform proposal
 (prot 3, trans 3, hmac_alg 1) not supported
lw6d: ISAKMP (0:2): atts not acceptable. Next payload is 0
lw6d: ISAKMP (0:2): Checking IPsec proposal 4
lw6d: ISAKMP: transform 1, ESP_3DES
lw6d: ISAKMP: attributes in transform:
lw6d: ISAKMP: authenticator is HMAC-SHA
lw6d: ISAKMP: encaps is 1
lw6d: ISAKMP: SA life type in seconds
lw6d: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
lw6d: validate proposal 0
lw6d: ISAKMP (0:2): atts are acceptable.
lw6d: IPSEC(validate_proposal_request): proposal part #1,
 (key eng. msg.) INBOUND local= 172.18.124.158,
 remote= 192.168.60.34, local_proxy= 172.18.124.158/255.255.255.255/0/0
 (type=1), remote_proxy= 10.1.1.114/255.255.255.255/0/0 (type=1),
 protocol= ESP, transform= esp-3des esp-sha-hmac , lifedur= 0s and 0kb,
 spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x4
lw6d: validate proposal request 0
lw6d: ISAKMP (0:2): processing NONCE payload. message ID = 1369459046
lw6d: ISAKMP (0:2): processing ID payload. message ID = 1369459046
lw6d: ISAKMP (0:2): processing ID payload. message ID = 1369459046
lw6d: ISAKMP (0:2): asking for 1 spis from ipsec
lw6d: ISAKMP (0:2): Node 1369459046, Input = IKE_MSG_FROM_PEER, IKE_QM_EXCH
Old State = IKE_QM_READY New State = IKE_QM_SPI_STARVE

lw6d: IPSEC(key_engine): got a queue event...
lw6d: IPSEC(spi_response): getting spi 1640315492 for SA
 from 172.18.124.158 to 192.168.60.34 for prot 3
lw6d: ISAKMP: received ke message (2/1)
lw6d: CryptoEngine0: generate hmac context for conn id 2
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_ENCRYPT(hw)(ipsec)
lw6d: ISAKMP (0:2): sending packet to 192.168.60.34 (R) QM_IDLE
lw6d: ISAKMP (0:2): Node 1369459046,
 Input = IKE_MSG_FROM_IPSEC, IKE_SPI_REPLY
Old State = IKE_QM_SPI_STARVE New State = IKE_QM_R_QM2

lw6d: ISAKMP (0:2): received packet from 192.168.60.34 (R) QM_IDLE
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_DECRYPT(hw)(ipsec)
lw6d: CryptoEngine0: generate hmac context for conn id 2
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
lw6d: ipsec allocate flow 0
lw6d: ipsec allocate flow 0
lw6d: CryptoEngine0: CRYPTO_ISA_IPSEC_KEY_CREATE(hw)(ipsec)

```

lw6d: CryptoEngine0: CRYPTO_ISA_IPSEC_KEY_CREATE(hw)(ipsec)
lw6d: ISAKMP (0:2): Creating IPsec SAs
lw6d: inbound SA from 192.168.60.34 to 172.18.124.158
      (proxy 10.1.1.114 to 172.18.124.158)
lw6d: has spi 0x61C53A64 and conn_id 200 and flags 4
lw6d: lifetime of 2147483 seconds
lw6d: outbound SA from 172.18.124.158 to 192.168.60.34
      (proxy 172.18.124.158 to 10.1.1.114 )
lw6d: has spi -1885622177 and conn_id 201 and flags C
lw6d: lifetime of 2147483 seconds
lw6d: ISAKMP (0:2): deleting node 1369459046 error FALSE
      reason "quick mode done (await())"
lw6d: ISAKMP (0:2): Node 1369459046,
      Input = IKE_MSG_FROM_PEER, IKE_QM_EXCH
Old State = IKE_QM_R_QM2 New State = IKE_QM_PHASE2_COMPLETE

lw6d: IPSEC(key_engine): got a queue event...
lw6d: IPSEC(initialize_sas): ,
      (key eng. msg.) INBOUND local= 172.18.124.158,
      remote= 192.168.60.34, local_proxy= 172.18.124.158/0.0.0.0/0/0
      (type=1), remote_proxy= 10.1.1.114/0.0.0.0/0/0 (type=1),
      protocol= ESP, transform= esp-3des esp-sha-hmac ,
      lifedur= 2147483s and 0kb, spi= 0x61C53A64(1640315492),
      conn_id= 200, keysize= 0, flags= 0x4
lw6d: IPSEC(initialize_sas): , (key eng. msg.)
      OUTBOUND local= 172.18.124.158, remote= 192.168.60.34,
      local_proxy= 172.18.124.158/0.0.0.0/0/0 (type=1),
      remote_proxy= 10.1.1.114/0.0.0.0/0/0 (type=1),
      protocol= ESP, transform= esp-3des esp-sha-hmac ,
      lifedur= 2147483s and 0kb, spi= 0x8F9BB05F(2409345119),
      conn_id= 201, keysize= 0, flags= 0xC
lw6d: IPSEC(create_sa): sa created, (sa) sa_dest= 172.18.124.158,
      sa_prot= 50, sa_spi= 0x61C53A64(1640315492),
      sa_trans= esp-3des esp-sha-hmac , sa_conn_id= 200
lw6d: IPSEC(create_sa): sa created, (sa) sa_dest= 192.168.60.34,
      sa_prot= 50, sa_spi= 0x8F9BB05F(2409345119),
      sa_trans= esp-3des esp-sha-hmac , sa_conn_id= 201

```

Registros del cliente

Para ver los registros, inicie el Log Viewer en el cliente VPN, y fije el filtro al *alto* para todas las clases configuradas.

Muestran la salida del registro de la muestra aquí.

```

1710#show debug
General OS:
TACACS access control debugging is on
AAA Authentication debugging is on
AAA Authorization debugging is on
Cryptographic Subsystem:
Crypto ISAKMP debugging is on
Crypto Engine debugging is on
Crypto IPSEC debugging is on

1710#
lw6d: ISAKMP (0:0): received packet from 192.168.60.34 (N) NEW SA
lw6d: ISAKMP: local port 500, remote port 500
lw6d: ISAKMP (0:2): (Re)Setting client xauth list userauthen and state
lw6d: ISAKMP: Locking CONFIG struct 0x8158B894 from
      crypto_ikmp_config_initialize_sa, count 2
lw6d: ISAKMP (0:2): processing SA payload. message ID = 0

```

```
lw6d: ISAKMP (0:2): processing ID payload. message ID = 0
lw6d: ISAKMP (0:2): processing vendor id payload
lw6d: ISAKMP (0:2): vendor ID seems Unity/DPD but bad major
lw6d: ISAKMP (0:2): vendor ID is XAUTH
lw6d: ISAKMP (0:2): processing vendor id payload
lw6d: ISAKMP (0:2): vendor ID is DPD
lw6d: ISAKMP (0:2): processing vendor id payload
lw6d: ISAKMP (0:2): vendor ID is Unity
lw6d: ISAKMP (0:2): Checking ISAKMP transform 1 against priority 3 policy
lw6d: ISAKMP: encryption 3DES-CBC
lw6d: ISAKMP: hash SHA
lw6d: ISAKMP: default group 2
lw6d: ISAKMP: auth XAUTHInitPreShared
lw6d: ISAKMP: life type in seconds
lw6d: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B
lw6d: ISAKMP (0:2): atts are acceptable. Next payload is 3
lw6d: CryptoEngine0: generate alg parameter
lw6d: CryptoEngine0: CRYPTO_ISA_DH_CREATE(hw)(ipsec)
lw6d: CRYPTO_ENGINE: Dh phase 1 status: 0
lw6d: ISAKMP (0:2): processing KE payload. message ID = 0
lw6d: CryptoEngine0: generate alg parameter
lw6d: CryptoEngine0: CRYPTO_ISA_DH_SHARE_SECRET(hw)(ipsec)
lw6d: ISAKMP (0:2): processing NONCE payload. message ID = 0
lw6d: ISAKMP (0:2): processing vendor id payload
lw6d: ISAKMP (0:2): processing vendor id payload
lw6d: ISAKMP (0:2): processing vendor id payload
lw6d: AAA: parse name=ISAKMP-ID-AUTH idb type=-1 tty=-1
lw6d: AAA/MEMORY: create_user (0x817F63F4) user='vpngroup' ruser='NULL' ds0=0
    port='ISAKMP-ID-AUTH' rem_addr='192.168.60.34' authen_type=NONE
    service=LOGIN priv=0 initial_task_id='0'
lw6d: ISAKMP (0:2): Input = IKE_MSG_FROM_PEER, IKE_AM_EXCH
Old State = IKE_READY New State = IKE_R_AM_AAA_AWAIT

lw6d: ISAKMP-ID-AUTH AAA/AUTHOR/CRYPTO AAA(1472763894):
    Port='ISAKMP-ID-AUTH' list='groupauthor' service=NET
lw6d: AAA/AUTHOR/CRYPTO AAA: ISAKMP-ID-AUTH(1472763894) user='vpngroup'
lw6d: ISAKMP-ID-AUTH AAA/AUTHOR/CRYPTO AAA(1472763894): send AV service=ike
lw6d: ISAKMP-ID-AUTH AAA/AUTHOR/CRYPTO AAA(1472763894): send AV protocol=ipsec
lw6d: ISAKMP-ID-AUTH AAA/AUTHOR/CRYPTO AAA(1472763894): found list "groupauthor"
lw6d: ISAKMP-ID-AUTH AAA/AUTHOR/CRYPTO AAA(1472763894): Method=LOCAL
lw6d: AAA/AUTHOR (1472763894): Post authorization status = PASS_ADD
lw6d: ISAKMP: got callback 1
AAA/AUTHOR/IKE: Processing AV service=ike
AAA/AUTHOR/IKE: Processing AV protocol=ipsec
AAA/AUTHOR/IKE: Processing AV tunnel-password=cisco123
AAA/AUTHOR/IKE: Processing AV default-domain*cisco.com
AAA/AUTHOR/IKE: Processing AV addr-pool*ippool
AAA/AUTHOR/IKE: Processing AV key-exchange=ike
AAA/AUTHOR/IKE: Processing AV timeout*0
AAA/AUTHOR/IKE: Processing AV idletime*0
AAA/AUTHOR/IKE: Processing AV inacl*102
AAA/AUTHOR/IKE: Processing AV dns-servers*10.1.1.10 0.0.0.0
AAA/AUTHOR/IKE: Processing AV wins-servers*10.1.1.20 0.0.0.0
lw6d: CryptoEngine0: create ISAKMP SKEYID for conn id 2
lw6d: CryptoEngine0: CRYPTO_ISA_SA_CREATE(hw)(ipsec)
lw6d: ISAKMP (0:2): SKEYID state generated
lw6d: ISAKMP (0:2): SA is doing pre-shared key authentication plux
    XAUTH using id type ID_IPV4_ADDR
lw6d: ISAKMP (2): ID payload
next-payload : 10
type : 1
protocol : 17
port : 500
length : 8
```


1w6d: ISAKMP (2): Total payload length: 12
1w6d: CryptoEngine0: generate hmac context for conn id 2
1w6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
1w6d: ISAKMP (0:2): sending packet to 192.168.60.34 (R) AG_INIT_EXCH
1w6d: ISAKMP (0:2): Input = IKE_MSG_FROM_AAA, PRESHARED_KEY_REPLY
Old State = IKE_R_AM_AAA_AWAIT New State = IKE_R_AM2

1w6d: AAA/MEMORY: free_user (0x817F63F4) user='vpngroup'
ruser='NULL' port='ISAK MP-ID-AUTH' rem_addr='192.168.60.34'
authen_type=NONE service=LOGIN priv=0
1w6d: ISAKMP (0:2): received packet from 192.168.60.34 (R) AG_INIT_EXCH
1w6d: CryptoEngine0: CRYPTO_ISA_IKE_DECRYPT(hw)(ipsec)
1w6d: ISAKMP (0:2): processing HASH payload. message ID = 0
1w6d: CryptoEngine0: generate hmac context for conn id 2
1w6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
1w6d: ISAKMP (0:2): processing NOTIFY INITIAL_CONTACT protocol 1
spi 0, message ID = 0, sa = 81673884
1w6d: ISAKMP (0:2): Process initial contact, bring down
existing phase 1 and 2 SA's
1w6d: ISAKMP (0:2): returning IP addr to the address pool: 10.1.1.113
1w6d: ISAKMP (0:2): returning address 10.1.1.113 to pool
1w6d: ISAKMP (0:2): peer does not do paranoid keepalives.

1w6d: ISAKMP (0:2): SA has been authenticated with 192.168.60.34
1w6d: CryptoEngine0: clear dh number for conn id 1
1w6d: CryptoEngine0: CRYPTO_ISA_DH_DELETE(hw)(ipsec)
1w6d: IPSEC(key_engine): got a queue event...
1w6d: IPSEC(key_engine_delete_sas): rec'd delete notify from ISAKMP
1w6d: IPSEC(key_engine_delete_sas): delete all SAs shared with 192.168.60.34
1w6d: CryptoEngine0: generate hmac context for conn id 2
1w6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
1w6d: CryptoEngine0: CRYPTO_ISA_IKE_ENCRYPT(hw)(ipsec)
1w6d: ISAKMP (0:2): sending packet to 192.168.60.34 (R) QM_IDLE
1w6d: ISAKMP (0:2): purging node 1324880791
1w6d: ISAKMP: Sending phase 1 responder lifetime 86400

1w6d: ISAKMP (0:2): Input = IKE_MSG_FROM_PEER, IKE_AM_EXCH
Old State = IKE_R_AM2 New State = IKE_P1_COMPLETE

1w6d: ISAKMP (0:2): Need XAUTH
1w6d: AAA: parse name=ISAKMP idb type=-1 tty=-1
1w6d: AAA/MEMORY: create_user (0x812F79FC) user='NULL'
ruser='NULL' ds0=0 port='
ISAKMP' rem_addr='192.168.60.34' authen_type=ASCII service=LOGIN
priv=0 initial_task_id='0'
1w6d: ISAKMP (0:2): Input = IKE_MSG_INTERNAL, IKE_PHASE1_COMPLETE
Old State = IKE_P1_COMPLETE New State = IKE_XAUTH_AAA_START_LOGIN_AWAIT

1w6d: AAA/AUTHEN/START (2017610393): port='ISAKMP' list='userauthen'
action=LOGIN service=LOGIN
1w6d: AAA/AUTHEN/START (2017610393): found list userauthen
1w6d: AAA/AUTHEN/START (2017610393): Method=tacacs+ (tacacs+)
1w6d: TAC+: send AUTHEN/START packet ver=192 id=2017610393
1w6d: TAC+: Using default tacacs server-group "tacacs+" list.
1w6d: TAC+: Opening TCP/IP to 172.16.124.96/49 timeout=5
1w6d: TAC+: Opened TCP/IP handle 0x8183D638 to 172.16.124.96/49
1w6d: TAC+: 172.16.124.96 (2017610393) AUTHEN/START/LOGIN/ASCII queued
1w6d: TAC+: (2017610393) AUTHEN/START/LOGIN/ASCII processed
1w6d: TAC+: ver=192 id=2017610393 received AUTHEN status = GETUSER
1w6d: AAA/AUTHEN(2017610393): Status=GETUSER
1w6d: ISAKMP: got callback 1
1w6d: ISAKMP/xauth: request attribute XAUTH_TYPE_V2
1w6d: ISAKMP/xauth: request attribute XAUTH_MESSAGE_V2
1w6d: ISAKMP/xauth: request attribute XAUTH_USER_NAME_V2

lw6d: ISAKMP/xauth: request attribute XAUTH_USER_PASSWORD_V2
lw6d: CryptoEngine0: generate hmac context for conn id 2
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
lw6d: ISAKMP (0:2): initiating peer config to 192.168.60.34. ID = 1641488057
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_ENCRYPT(hw)(ipsec)
lw6d: ISAKMP (0:2): sending packet to 192.168.60.34 (R) CONF_XAUTH
lw6d: ISAKMP (0:2): Input = IKE_MSG_FROM_AAA, IKE_AAA_START_LOGIN
Old State = IKE_XAUTH_AAA_START_LOGIN_AWAIT
New State = IKE_XAUTH_REQ_SENT

lw6d: ISAKMP (0:2): received packet from 192.168.60.34 (R) CONF_XAUTH
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_DECRYPT(hw)(ipsec)
lw6d: ISAKMP (0:2): processing transaction payload from 192.168.60.34.
message ID = 1641488057
lw6d: CryptoEngine0: generate hmac context for conn id 2
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
lw6d: ISAKMP: Config payload REPLY
lw6d: ISAKMP/xauth: reply attribute XAUTH_TYPE_V2 unexpected
lw6d: ISAKMP/xauth: reply attribute XAUTH_USER_NAME_V2
lw6d: ISAKMP/xauth: reply attribute XAUTH_USER_PASSWORD_V2
lw6d: ISAKMP (0:2): deleting node 1641488057 error FALSE
reason "done with xauth request/reply exchange"
lw6d: ISAKMP (0:2): Input = IKE_MSG_FROM_PEER, IKE_CFG_REPLY
Old State = IKE_XAUTH_REQ_SENT
New State = IKE_XAUTH_AAA_CONT_LOGIN_AWAIT

lw6d: AAA/AUTHEN/CONT (2017610393): continue_login (user='(undef)')
lw6d: AAA/AUTHEN(2017610393): Status=GETUSER
lw6d: AAA/AUTHEN(2017610393): Method=tacacs+ (tacacs+)
lw6d: TAC+: send AUTHEN/CONT packet id=2017610393
lw6d: TAC+: 172.16.124.96 (2017610393) AUTHEN/CONT queued
lw6d: TAC+: (2017610393) AUTHEN/CONT processed
lw6d: TAC+: ver=192 id=2017610393 received AUTHEN status = GETPASS
lw6d: AAA/AUTHEN(2017610393): Status=GETPASS
lw6d: AAA/AUTHEN/CONT (2017610393): continue_login (user='cisco')
lw6d: AAA/AUTHEN(2017610393): Status=GETPASS
lw6d: AAA/AUTHEN(2017610393): Method=tacacs+ (tacacs+)
lw6d: TAC+: send AUTHEN/CONT packet id=2017610393
lw6d: TAC+: 172.16.124.96 (2017610393) AUTHEN/CONT queued
lw6d: TAC+: (2017610393) AUTHEN/CONT processed
lw6d: TAC+: ver=192 id=2017610393 received AUTHEN status = PASS
lw6d: AAA/AUTHEN(2017610393): Status=PASS
lw6d: ISAKMP: got callback 1
lw6d: TAC+: Closing TCP/IP 0x8183D638 connection to 172.16.124.96/49
lw6d: CryptoEngine0: generate hmac context for conn id 2
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
lw6d: ISAKMP (0:2): initiating peer config to 192.168.60.34. ID = 1736579999
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_ENCRYPT(hw)(ipsec)
lw6d: ISAKMP (0:2): sending packet to 192.168.60.34 (R) CONF_XAUTH
lw6d: ISAKMP (0:2): Input = IKE_MSG_FROM_AAA, IKE_AAA_CONT_LOGIN
Old State = IKE_XAUTH_AAA_CONT_LOGIN_AWAIT
New State = IKE_XAUTH_SET_SENT

lw6d: AAA/MEMORY: free_user (0x812F79FC) user='cisco' ruser='NULL'
port='ISAKMP' rem_addr='192.168.60.34' authen_type=ASCII
service=LOGIN priv=0
lw6d: ISAKMP (0:2): received packet from 192.168.60.34 (R) CONF_XAUTH
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_DECRYPT(hw)(ipsec)
lw6d: ISAKMP (0:2): processing transaction payload from 192.168.60.34.
message ID = 1736579999
lw6d: CryptoEngine0: generate hmac context for conn id 2
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
lw6d: ISAKMP: Config payload ACK
lw6d: ISAKMP (0:2): XAUTH ACK Processed

```
lw6d: ISAKMP (0:2): deleting node 1736579999 error FALSE
      reason "done with transaction"
lw6d: ISAKMP (0:2): Input = IKE_MSG_FROM_PEER, IKE_CFG_ACK
Old State = IKE_XAUTH_SET_SENT New State = IKE_P1_COMPLETE

lw6d: ISAKMP (0:2): Input = IKE_MSG_INTERNAL, IKE_PHASE1_COMPLETE
Old State = IKE_P1_COMPLETE New State = IKE_P1_COMPLETE

lw6d: ISAKMP (0:2): received packet from 192.168.60.34 (R) QM_IDLE
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_DECRYPT(hw)(ipsec)
lw6d: ISAKMP (0:2): processing transaction payload from 192.168.60.34.
      message ID = 398811763
lw6d: CryptoEngine0: generate hmac context for conn id 2
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
lw6d: ISAKMP: Config payload REQUEST
lw6d: ISAKMP (0:2): checking request:
lw6d: ISAKMP: IP4_ADDRESS
lw6d: ISAKMP: IP4_NETMASK
lw6d: ISAKMP: IP4_DNS
lw6d: ISAKMP: IP4_NBNS
lw6d: ISAKMP: ADDRESS_EXPIRY
lw6d: ISAKMP: APPLICATION_VERSION
lw6d: ISAKMP: UNKNOWN Unknown Attr: 0x7000
lw6d: ISAKMP: UNKNOWN Unknown Attr: 0x7001
lw6d: ISAKMP: DEFAULT_DOMAIN
lw6d: ISAKMP: SPLIT_INCLUDE
lw6d: ISAKMP: UNKNOWN Unknown Attr: 0x7007
lw6d: ISAKMP: UNKNOWN Unknown Attr: 0x7008
lw6d: ISAKMP: UNKNOWN Unknown Attr: 0x7005
lw6d: AAA: parse name=ISAKMP-GROUP-AUTH idb type=-1 tty=-1
lw6d: AAA/MEMORY: create_user (0x812F79FC) user='vpngroup' ruser='NULL' ds0=0 po
rt='ISAKMP-GROUP-AUTH' rem_addr='192.168.60.34' authen_type=NONE service=LOGIN pr
iv=0 initial_task_id='0'
lw6d: ISAKMP (0:2): Input = IKE_MSG_FROM_PEER, IKE_CFG_REQUEST
Old State = IKE_P1_COMPLETE New State = IKE_CONFIG_AUTHOR_AAA_AWAIT

lw6d: ISAKMP-GROUP-AUTH AAA/AUTHOR/CRYPTO AAA(1059453615):
      Port='ISAKMP-GROUP-AUTH' list='groupauthor' service=NET
lw6d: AAA/AUTHOR/CRYPTO AAA: ISAKMP-GROUP-AUTH(1059453615)
      user='vpngroup'
lw6d: ISAKMP-GROUP-AUTH AAA/AUTHOR/CRYPTO AAA(1059453615):
      send AV service=ike
lw6d: ISAKMP-GROUP-AUTH AAA/AUTHOR/CRYPTO AAA(1059453615):
      send AV protocol=ipsec
lw6d: ISAKMP-GROUP-AUTH AAA/AUTHOR/CRYPTO AAA(1059453615):
      found list "groupauthor"
lw6d: ISAKMP-GROUP-AUTH AAA/AUTHOR/CRYPTO AAA(1059453615):
      Method=LOCAL
lw6d: AAA/AUTHOR (1059453615): Post authorization status = PASS_ADD
lw6d: ISAKMP: got callback 1
AAA/AUTHOR/IKE: Processing AV service=ike
AAA/AUTHOR/IKE: Processing AV protocol=ipsec
AAA/AUTHOR/IKE: Processing AV tunnel-password=cisco123
AAA/AUTHOR/IKE: Processing AV default-domain*cisco.com
AAA/AUTHOR/IKE: Processing AV addr-pool*ippool
AAA/AUTHOR/IKE: Processing AV key-exchange=ike
AAA/AUTHOR/IKE: Processing AV timeout*0
AAA/AUTHOR/IKE: Processing AV idletime*0
AAA/AUTHOR/IKE: Processing AV inacl*102
AAA/AUTHOR/IKE: Processing AV dns-servers*10.1.1.10 0.0.0.0
AAA/AUTHOR/IKE: Processing AV wins-servers*10.1.1.20 0.0.0.0
lw6d: ISAKMP (0:2): attributes sent in message:
lw6d: Address: 0.2.0.0
lw6d: ISAKMP (0:2): allocating address 10.1.1.114
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lw6d: ISAKMP: Sending private address: 10.1.1.114
lw6d: ISAKMP: Unknown Attr: IP4_NETMASK (0x2)
lw6d: ISAKMP: Sending IP4_DNS server address: 10.1.1.10
lw6d: ISAKMP: Sending IP4_NBNS server address: 10.1.1.20
lw6d: ISAKMP: Sending ADDRESS_EXPIRY seconds left to use the address: 86396
lw6d: ISAKMP: Sending APPLICATION_VERSION string:
  Cisco Internetwork Operating System Software IOS (tm) C1700 Software
  (C1710-K9O3SY-M), Version 12.2(8)T1, RELEASE SOFTWARE (fc2)
  TAC Support: http://www.cisco.com/tac
  Copyright (c) 1986-2002 by cisco Systems, Inc.
  Compiled Sat 30-Mar-02 13:30 by ccai
lw6d: ISAKMP: Unknown Attr: UNKNOWN (0x7000)
lw6d: ISAKMP: Unknown Attr: UNKNOWN (0x7001)
lw6d: ISAKMP: Sending DEFAULT_DOMAIN default domain name: cisco.com
lw6d: ISAKMP: Sending split include name 102 network 10.38.0.0
  mask 255.255.0.0 protocol 0, src port 0, dst port 0

lw6d: ISAKMP: Unknown Attr: UNKNOWN (0x7007)
lw6d: ISAKMP: Unknown Attr: UNKNOWN (0x7008)
lw6d: ISAKMP: Unknown Attr: UNKNOWN (0x7005)
lw6d: CryptoEngine0: generate hmac context for conn id 2
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
lw6d: ISAKMP (0:2): responding to peer config from 192.168.60.34. ID = 398811763
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_ENCRYPT(hw)(ipsec)
lw6d: ISAKMP (0:2): sending packet to 192.168.60.34 (R) CONF_ADDR
lw6d: ISAKMP (0:2): deleting node 398811763 error FALSE reason ""
lw6d: ISAKMP (0:2): Input = IKE_MESG_FROM_AAA, IKE_AAA_GROUP_ATTR
Old State = IKE_CONFIG_AUTHOR_AAA_AWAIT New State = IKE_P1_COMPLETE

lw6d: AAA/MEMORY: free_user (0x812F79FC) user='vpngroup'
  ruser='NULL' port='ISAKMP-GROUP-AUTH' rem_addr='192.168.60.34'
  authen_type=NONE service=LOGIN priv=0
lw6d: ISAKMP (0:2): received packet from 192.168.60.34 (R) QM_IDLE
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_DECRYPT(hw)(ipsec)
lw6d: CryptoEngine0: generate hmac context for conn id 2
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
lw6d: ISAKMP (0:2): processing HASH payload. message ID = 1369459046
lw6d: ISAKMP (0:2): processing SA payload. message ID = 1369459046
lw6d: ISAKMP (0:2): Checking IPsec proposal 1
lw6d: ISAKMP: transform 1, ESP_3DES
lw6d: ISAKMP: attributes in transform:
lw6d: ISAKMP: authenticator is HMAC-MD5
lw6d: ISAKMP: encaps is 1
lw6d: ISAKMP: SA life type in seconds
lw6d: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
lw6d: validate proposal 0
lw6d: IPSEC(validate_proposal): transform proposal
  (prot 3, trans 3, hmac_alg 1) not supported
lw6d: ISAKMP (0:2): atts not acceptable. Next payload is 0
lw6d: ISAKMP (0:2): skipping next ANDED proposal (1)
lw6d: ISAKMP (0:2): Checking IPsec proposal 2
lw6d: ISAKMP: transform 1, ESP_3DES
lw6d: ISAKMP: attributes in transform:
lw6d: ISAKMP: authenticator is HMAC-SHA
lw6d: ISAKMP: encaps is 1
lw6d: ISAKMP: SA life type in seconds
lw6d: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
lw6d: validate proposal 0
lw6d: ISAKMP (0:2): atts are acceptable.
lw6d: ISAKMP (0:2): Checking IPsec proposal 2
lw6d: ISAKMP (0:2): transform 1, IPPCP LZS
lw6d: ISAKMP: attributes in transform:
lw6d: ISAKMP: encaps is 1
lw6d: ISAKMP: SA life type in seconds
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lw6d: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
lw6d: IPSEC(validate_proposal): transform proposal
 (prot 4, trans 3, hmac_alg 0) not supported
lw6d: ISAKMP (0:2): atts not acceptable. Next payload is 0
lw6d: ISAKMP (0:2): Checking IPsec proposal 3
lw6d: ISAKMP: transform 1, ESP_3DES
lw6d: ISAKMP: attributes in transform:
lw6d: ISAKMP: authenticator is HMAC-MD5
lw6d: ISAKMP: encaps is 1
lw6d: ISAKMP: SA life type in seconds
lw6d: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
lw6d: validate proposal 0
lw6d: IPSEC(validate_proposal): transform proposal
 (prot 3, trans 3, hmac_alg 1) not supported
lw6d: ISAKMP (0:2): atts not acceptable. Next payload is 0
lw6d: ISAKMP (0:2): Checking IPsec proposal 4
lw6d: ISAKMP: transform 1, ESP_3DES
lw6d: ISAKMP: attributes in transform:
lw6d: ISAKMP: authenticator is HMAC-SHA
lw6d: ISAKMP: encaps is 1
lw6d: ISAKMP: SA life type in seconds
lw6d: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
lw6d: validate proposal 0
lw6d: ISAKMP (0:2): atts are acceptable.
lw6d: IPSEC(validate_proposal_request): proposal part #1,
 (key eng. msg.) INBOUND local= 172.18.124.158,
 remote= 192.168.60.34, local_proxy= 172.18.124.158/255.255.255.255/0/0
 (type=1), remote_proxy= 10.1.1.114/255.255.255.255/0/0 (type=1),
 protocol= ESP, transform= esp-3des esp-sha-hmac , lifedur= 0s and 0kb,
 spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x4
lw6d: validate proposal request 0
lw6d: ISAKMP (0:2): processing NONCE payload. message ID = 1369459046
lw6d: ISAKMP (0:2): processing ID payload. message ID = 1369459046
lw6d: ISAKMP (0:2): processing ID payload. message ID = 1369459046
lw6d: ISAKMP (0:2): asking for 1 spis from ipsec
lw6d: ISAKMP (0:2): Node 1369459046, Input = IKE_MSG_FROM_PEER, IKE_QM_EXCH
Old State = IKE_QM_READY New State = IKE_QM_SPI_STARVE

lw6d: IPSEC(key_engine): got a queue event...
lw6d: IPSEC(spi_response): getting spi 1640315492 for SA
 from 172.18.124.158 to 192.168.60.34 for prot 3
lw6d: ISAKMP: received ke message (2/1)
lw6d: CryptoEngine0: generate hmac context for conn id 2
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_ENCRYPT(hw)(ipsec)
lw6d: ISAKMP (0:2): sending packet to 192.168.60.34 (R) QM_IDLE
lw6d: ISAKMP (0:2): Node 1369459046,
 Input = IKE_MSG_FROM_IPSEC, IKE_SPI_REPLY
Old State = IKE_QM_SPI_STARVE New State = IKE_QM_R_QM2

lw6d: ISAKMP (0:2): received packet from 192.168.60.34 (R) QM_IDLE
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_DECRYPT(hw)(ipsec)
lw6d: CryptoEngine0: generate hmac context for conn id 2
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
lw6d: ipsec allocate flow 0
lw6d: ipsec allocate flow 0
lw6d: CryptoEngine0: CRYPTO_ISA_IPSEC_KEY_CREATE(hw)(ipsec)
lw6d: CryptoEngine0: CRYPTO_ISA_IPSEC_KEY_CREATE(hw)(ipsec)
lw6d: ISAKMP (0:2): Creating IPsec SAs
lw6d: inbound SA from 192.168.60.34 to 172.18.124.158
 (proxy 10.1.1.114 to 172.18.124.158)
lw6d: has spi 0x61C53A64 and conn_id 200 and flags 4
lw6d: lifetime of 2147483 seconds
lw6d: outbound SA from 172.18.124.158 to 192.168.60.34

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(proxy 172.18.124.158 to 10.1.1.114 )
lw6d: has spi -1885622177 and conn_id 201 and flags C
lw6d: lifetime of 2147483 seconds
lw6d: ISAKMP (0:2): deleting node 1369459046 error FALSE
      reason "quick mode done (await())"
lw6d: ISAKMP (0:2): Node 1369459046,
      Input = IKE_MSG_FROM_PEER, IKE_QM_EXCH
Old State = IKE_QM_R_QM2 New State = IKE_QM_PHASE2_COMPLETE

lw6d: IPSEC(key_engine): got a queue event...
lw6d: IPSEC(initialize_sas): ,
      (key eng. msg.) INBOUND local= 172.18.124.158,
      remote= 192.168.60.34, local_proxy= 172.18.124.158/0.0.0.0/0/0
      (type=1), remote_proxy= 10.1.1.114/0.0.0.0/0/0 (type=1),
      protocol= ESP, transform= esp-3des esp-sha-hmac ,
      lifedur= 2147483s and 0kb, spi= 0x61C53A64(1640315492),
      conn_id= 200, keysize= 0, flags= 0x4
lw6d: IPSEC(initialize_sas): , (key eng. msg.)
      OUTBOUND local= 172.18.124.158, remote= 192.168.60.34,
      local_proxy= 172.18.124.158/0.0.0.0/0/0 (type=1),
      remote_proxy= 10.1.1.114/0.0.0.0/0/0 (type=1),
      protocol= ESP, transform= esp-3des esp-sha-hmac ,
      lifedur= 2147483s and 0kb, spi= 0x8F9BB05F(2409345119),
      conn_id= 201, keysize= 0, flags= 0xC
lw6d: IPSEC(create_sa): sa created, (sa) sa_dest= 172.18.124.158,
      sa_prot= 50, sa_spi= 0x61C53A64(1640315492),
      sa_trans= esp-3des esp-sha-hmac , sa_conn_id= 200
lw6d: IPSEC(create_sa): sa created, (sa) sa_dest= 192.168.60.34,
      sa_prot= 50, sa_spi= 0x8F9BB05F(2409345119),
      sa_trans= esp-3des esp-sha-hmac , sa_conn_id= 201
```

[Información Relacionada](#)

- [Soporte del Terminal Access Controller Access Control System \(TACACS+\)](#)
- [Soporte del Cisco Secure Access Control Server para Unix](#)
- [Soporte del Cisco Secure ACS for Windows](#)
- [Soporte del Cliente Cisco VPN](#)
- [Soporte de la Negociación IPSec/Protocolos IKE](#)
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