Contenido

Introducción

Este documento proporciona una configuración de ejemplo que explica cómo permitir el acceso de usuarios de VPN a Internet mientras está conectado a través de un túnel de LAN a LAN IPsec (L2L) con otro router. Esta configuración se consigue cuando se habilita la tunelización dividida. La tunelización dividida permite que los usuarios de VPN accedan a los recursos corporativos a través del túnel IPsec mientras que todavía permite el acceso a Internet.

prerrequisitos

Requisitos

No hay requisitos específicos para este documento.

Componentes Utilizados

La información en este documento se basa en un Cisco 3640 Router con el Software Release 12.4 de Cisco IOS®.

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 más información sobre las convenciones sobre documentos.

Configurar

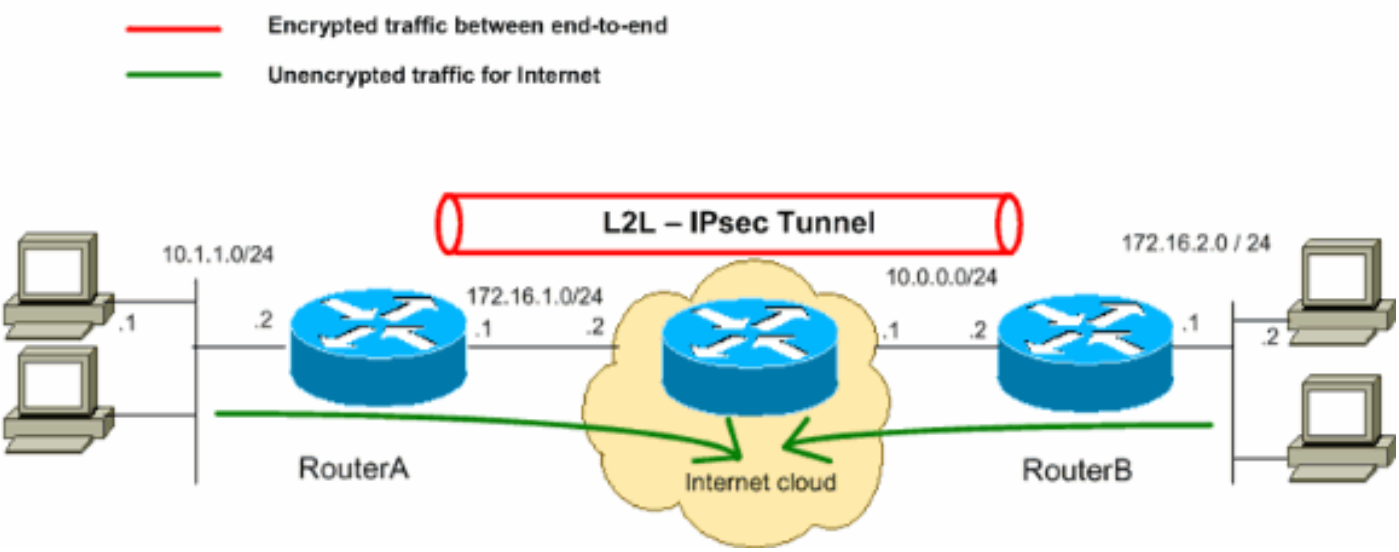
En esta sección encontrará la información para configurar las funciones descritas en este

documento.

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

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 A
- router B

router A

```
RouterA#show running-config Building configuration...Current
configuration : 1132 bytes!version 12.4service timestamps
debug datetime msecservice timestamps log datetime msecno
service password-encryption!hostname R9!boot-start-
markerboot-end-marker!!no aaa new-model!resource policy!!!--- 
Create an ISAKMP policy for Phase 1 !--- negotiations for the
L2L tunnels.crypto isakmp policy 10 hash md5 authentication
pre-share!--- Specify the pre-shared key and the remote peer
address !--- to match for the L2L tunnel.crypto isakmp key
vpnuser address 10.0.0.2!--- Create the Phase 2 policy for
actual data encryption.crypto ipsec transform-set myset esp-
des esp-md5-hmac!--- Create the actual crypto map. Specify
!--- the peer IP address, transform !--- set, and an access
control list (ACL) for the split tunneling.crypto map mymap
10 ipsec-isakmp set peer 10.0.0.2 set transform-set myset
match address 100!!!!interface Ethernet0/0 ip address
10.1.1.2 255.255.255.0 half-duplex!--- Apply the crypto map
on the outside interface.interface Serial2/0 ip address
```

```
172.16.1.1 255.255.255.0 crypto map mymap!ip http serverno ip
http secure-server!ip route 0.0.0.0 0.0.0.0 172.16.1.2!!--- 
Create an ACL for the traffic to !--- be encrypted. In this
example, !--- the traffic from 10.1.1.0/24 to 172.16.2.0/24
!--- is encrypted. The traffic which does not match the
access list !--- is unencrypted for the Internet.access-list
100 permit ip 10.1.1.0 0.0.0.255 172.16.2.0
0.0.0.255!!control-plane!line con 0line aux 0line vty 0
4!!end
```

router B

```
RouterB#show running-config Building configuration...Current
configuration : 835 bytes!version 12.4service timestamps
debug uptimeservice timestamps log uptimeno service password-
encryption!hostname R2!!ip subnet-zero!!!--- Create an ISAKMP
policy for Phase 1 !--- negotiations for the L2L
tunnels.crypto isakmp policy 10 hash md5 authentication pre-
share!--- Specify the pre-shared key and the remote peer
address !--- to match for the L2L tunnel.crypto isakmp key
vpnuser address 172.16.1.1!!--- Create the Phase 2 policy for
actual data encryption.crypto ipsec transform-set myset esp-
des esp-md5-hmac!!--- Create the actual crypto map. Specify
!--- the peer IP address, transform !--- set, and an ACL for
the split tunneling.!crypto map mymap 10 ipsec-isakmp set
peer 172.16.1.1 set transform-set myset match address
100!!!!interface Ethernet0 ip address 172.16.2.1
255.255.255.0!!--- Apply the crypto map on the outside
interface.interface Ethernet1 ip address 10.0.0.2
255.255.255.0 crypto map mymap!interface Serial0 no ip
address shutdown no fair-queue!interface Serial1 no ip
address shutdown!ip classlessip route 0.0.0.0 0.0.0.0
10.0.0.1ip http server!!--- Create an ACL for the traffic to
!--- be encrypted. In this example, !--- the traffic from
172.16.2.0/24 to 10.1.1.0/24 !--- is encrypted. The traffic
which does not match the access list !--- is unencrypted for
the Internet.access-list 100 permit ip 172.16.2.0 0.0.0.255
10.1.1.0 0.0.0.255!line con 0line aux 0line vty 0 4!end
```

Verificación

En esta sección encontrará información que puede utilizar para confirmar que su configuración esté funcionando 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.

- **¿muestre IPSec crypto sa**? Muestra las configuraciones usadas por las asociaciones de seguridad vigente (SA).`RouterA#`**`show crypto ipsec sa`**`interface: Serial2/0 Crypto map tag: mymap, local addr 172.16.1.1 protected vrf: (none) local ident (addr/mask/prot/port): (10.1.1.0/255.255.255.0/0/0) remote ident (addr/mask/prot/port): (172.16.2.0/255.255.255.0/0/0) current_peer 10.0.0.2 port 500 PERMIT, flags={origin_is_acl,}` **`#pkts encaps: 43, #pkts encrypt: 43, #pkts digest: 43 #pkts decaps: 43, #pkts decrypt: 43, #pkts verify: 43`** `#pkts compressed: 0, #pkts decompressed: 0 #pkts not compressed: 0, #pkts compr. failed: 0 #pkts not decompressed: 0, #pkts decompress failed: 0 #send errors 4, #recv errors 0` **`local crypto endpt.: 172.16.1.1, remote crypto endpt.: 10.0.0.2`** `path mtu 1500, ip mtu 1500, ip mtu idb Serial2/0 current outbound spi: 0x267BC43(40352835) inbound esp sas: spi: 0xD9F4BC76(3656694902) transform: esp-des esp-md5-hmac , in use settings ={Tunnel, } conn id: 2001, flow_id: SW:1, crypto map: mymap sa timing: remaining key lifetime (k/sec): (4558868/3550) IV size: 8 bytes replay detection support: Y Status: ACTIVE inbound ah sas: inbound pcp sas: outbound esp sas: spi: 0x267BC43(40352835) transform: esp-des esp-`

```
md5-hmac ,        in use settings ={Tunnel, }        conn id: 2002, flow_id: SW:2, crypto map: mymap
sa timing: remaining key lifetime (k/sec): (4558868/3548)        IV size: 8 bytes        replay
detection support: Y        Status: ACTIVE     outbound ah sas:     outbound pcp sas:
```

- ¿**muestre isakmp crypto sa**? Muestra todo el IKE actual SA en un par.`RouterA#`**`show crypto isakmp sa`**`dst   src   state   conn-id slot status10.0.0.2   172.16.1.1
QM_IDLE   1   0 ACTIVE`

Troubleshooting

En esta sección encontrará información que puede utilizar para solucionar problemas de configuración. También se muestra un ejemplo de salida del debug .

Comandos para resolución de problemas

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

Nota: Consulte Información Importante sobre Comandos de Debug antes de usar un **comando debug**.

- ¿**isakmp del debug crypto**? Visualiza negociaciones ISAKMP de la fase 1.
- ¿**IPSec del debug crypto**? Visualiza los IPSec Negotiations de la fase 2.

Ejemplo de resultado del comando debug

Router

```
RouterA#debug crypto isakmp*Sep 29 22:50:35.511: ISAKMP: received ke message (1/1)*Sep 29 22:50:35.511:
ISAKMP:(0:0:N/A:0): SA request profile is (NULL)*Sep 29 22:50:35.511: ISAKMP: Created a peer struct for
10.0.0.2, peer port 500*Sep 29 22:50:35.511: ISAKMP: New peer created peer = 0x64C0EF54 peer_handle =
0x8000000C*Sep 29 22:50:35.515: ISAKMP: Locking peer struct 0x64C0EF54, IKE refcount 1 for
isakmp_initiator*Sep 29 22:50:35.515: ISAKMP: local port 500, remote port 500*Sep 29 22:50:35.515:
ISAKMP: set new node 0 to QM_IDLE*Sep 29 22:50:35.515: ISAKMP: Find a dup sa in the avl tree during
calling isadb_insert sa = 64CDBF3C*Sep 29 22:50:35.515: ISAKMP:(0:0:N/A:0):Can not start Aggressive mode,
trying Main mode.*Sep 29 22:50:35.515: ISAKMP:(0:0:N/A:0):found peer pre-shared key matching 10.0.0.2*Sep
29 22:50:35.515: ISAKMP:(0:0:N/A:0): constructed NAT-T vendor-07 ID*Sep 29 22:50:35.519:
ISAKMP:(0:0:N/A:0): constructed NAT-T vendor-03 ID*Sep 29 22:50:35.519: ISAKMP:(0:0:N/A:0): constructed
NAT-T vendor-02 ID*Sep 29 22:50:35.519: ISAKMP:(0:0:N/A:0):Input = IKE_MESG_FROM_IPSEC, IKE_SA_REQ_MM*Sep
29 22:50:35.519: ISAKMP:(0:0:N/A:0):Old State = IKE_READY  New State = IKE_I_MM1*Sep 29 22:50:35.519:
ISAKMP:(0:0:N/A:0): beginning Main Mode exchange*Sep 29 22:50:35.519: ISAKMP:(0:0:N/A:0): sending packet
to 10.0.0.2 my_port 500 peer_port 500 (I) MM_NO_STATE*Sep 29 22:50:38.451: ISAKMP (0:0): received packet
from 10.0.0.2 dport 500 sport 500 Global (I) MM_NO_STATE*Sep 29 22:50:38.451: ISAKMP:(0:0:N/A:0):Input =
IKE_MESG_FROM_PEER, IKE_MM_EXCH*Sep 29 22:50:38.451: ISAKMP:(0:0:N/A:0):Old State = IKE_I_MM1  New State
= IKE_I_MM2*Sep 29 22:50:38.455: ISAKMP:(0:0:N/A:0): processing SA payload. message ID = 0*Sep 29
22:50:38.455: ISAKMP:(0:0:N/A:0):found peer pre-shared key matching 10.0.0.2*Sep 29 22:50:38.455:
ISAKMP:(0:0:N/A:0): local preshared key found*Sep 29 22:50:38.455: ISAKMP : Scanning profiles for xauth
...*Sep 29 22:50:38.455: ISAKMP:(0:0:N/A:0):Checking ISAKMP transform 1 against priority 10 policy*Sep 29
22:50:38.455: ISAKMP:      encryption DES-CBC*Sep 29 22:50:38.455: ISAKMP:      hash MD5*Sep 29
22:50:38.455: ISAKMP:      default group 1*Sep 29 22:50:38.455: ISAKMP:      auth pre-share*Sep 29
22:50:38.459: ISAKMP:      life type in seconds*Sep 29 22:50:38.459: ISAKMP:      life duration (VPI) of
0x0 0x1 0x51 0x80*Sep 29 22:50:38.459: ISAKMP:(0:0:N/A:0):atts are acceptable. Next payload is 0*Sep 29
22:50:38.547: ISAKMP:(0:4:SW:1):Input = IKE_MESG_INTERNAL, IKE_PROCESS_MAIN_MODE*Sep 29 22:50:38.547:
ISAKMP:(0:4:SW:1):Old State = IKE_I_MM2  New State = IKE_I_MM2*Sep 29 22:50:38.551: ISAKMP:(0:4:SW:1):
sending packet to 10.0.0.2 my_port 500peer_port 500 (I) MM_SA_SETUP*Sep 29 22:50:38.551:
ISAKMP:(0:4:SW:1):Input = IKE_MESG_INTERNAL, IKE_PROCESS_COMPLETE*Sep 29 22:50:38.551:
ISAKMP:(0:4:SW:1):Old State = IKE_I_MM2  New State = IKE_I_MM3*Sep 29 22:50:42.091: ISAKMP (0:134217732):
```

received packet from 10.0.0.2 dport500 sport 500 Global (I) MM_SA_SETUP*Sep 29 22:50:42.095: ISAKMP:(0:4:SW:1):Input = IKE_MESG_FROM_PEER, IKE_MM_EXCH*Sep 29 22:50:42.095: ISAKMP:(0:4:SW:1):Old State = IKE_I_MM3 New State = IKE_I_MM4*Sep 29 22:50:42.095: ISAKMP:(0:4:SW:1): processing KE payload. message ID = 0*Sep 29 22:50:42.203: ISAKMP:(0:4:SW:1): processing NONCE payload. message ID =0*Sep 29 22:50:42.203: ISAKMP:(0:4:SW:1):found peer pre-shared key matching 10.0.0.2*Sep 29 22:50:42.207: ISAKMP:(0:4:SW:1):SKEYID state generated*Sep 29 22:50:42.207: ISAKMP:(0:4:SW:1): processing vendor id payload*Sep 29 22:50:42.207: ISAKMP:(0:4:SW:1): speaking to another IOS box!*Sep 29 22:50:42.207: ISAKMP:(0:4:SW:1):Input = IKE_MESG_INTERNAL, IKE_PROCESS_MAIN_MODE*Sep 29 22:50:42.207: ISAKMP:(0:4:SW:1):Old State = IKE_I_MM4 New State = IKE_I_MM4*Sep 29 22:50:42.211: ISAKMP:(0:4:SW:1):Send initial contact*Sep 29 22:50:42.215: ISAKMP:(0:4:SW:1):SA is doing pre-shared key authentication using id type ID_IPV4_ADDR*Sep 29 22:50:42.215: ISAKMP (0:134217732): ID payload next-payload : 8 type : 1 address : 172.16.1.1 protocol : 17 port : 500 length : 12*Sep 29 22:50:42.215: ISAKMP:(0:4:SW:1):Total payload length: 12*Sep 29 22:50:42.215: ISAKMP:(0:4:SW:1): sending packet to 10.0.0.2 my_port 500peer_port 500 (I) MM_KEY_EXCH*Sep 29 22:50:42.219: ISAKMP:(0:4:SW:1):Input = IKE_MESG_INTERNAL, IKE_PROCESS_COMPLETE*Sep 29 22:50:42.219: ISAKMP:(0:4:SW:1):Old State = IKE_I_MM4 New State = IKE_I_MM5*Sep 29 22:50:42.783: ISAKMP (0:134217732): received packet from 10.0.0.2 dport500 sport 500 Global (I) MM_KEY_EXCH*Sep 29 22:50:42.783: ISAKMP:(0:4:SW:1): processing ID payload. message ID = 0*Sep 29 22:50:42.783: ISAKMP (0:134217732): ID payload next-payload : 8 type : 1 address : 10.0.0.2 protocol : 17 port : 500 length : 12*Sep 29 22:50:42.783: ISAKMP:(0:4:SW:1):: peer matches *none* of the profiles*Sep 29 22:50:42.787: ISAKMP:(0:4:SW:1): processing HASH payload. message ID = 0*Sep 29 22:50:42.787: ISAKMP:(0:4:SW:1):SA authentication status: authenticated*Sep 29 22:50:42.787: ISAKMP:(0:4:SW:1):SA has been authenticated with 10.0.0.2*Sep 29 22:50:42.787: ISAKMP: Trying to insert a peer 172.16.1.1/10.0.0.2/500/, and inserted successfully 64C0EF54.*Sep 29 22:50:42.787: ISAKMP:(0:4:SW:1):Input = IKE_MESG_FROM_PEER, IKE_MM_EXCH*Sep 29 22:50:42.787: ISAKMP:(0:4:SW:1):Old State = IKE_I_MM5 New State = IKE_I_MM6*Sep 29 22:50:42.791: ISAKMP:(0:4:SW:1):Input = IKE_MESG_INTERNAL, IKE_PROCESS_MAIN_MODE*Sep 29 22:50:42.791: ISAKMP:(0:4:SW:1):Old State = IKE_I_MM6 New State = IKE_I_MM6*Sep 29 22:50:42.795: ISAKMP:(0:4:SW:1):Input = IKE_MESG_INTERNAL, IKE_PROCESS_COMPLETE*Sep 29 22:50:42.795: ISAKMP:(0:4:SW:1):Old State = IKE_I_MM6 New State = IKE_P1_COMPLETE*Sep 29 22:50:42.799: ISAKMP:(0:4:SW:1):beginning Quick Mode exchange, M-ID of -966196463*Sep 29 22:50:42.803: ISAKMP:(0:4:SW:1): sending packet to 10.0.0.2 my_port 500peer_port 500 (I) QM_IDLE*Sep 29 22:50:42.803: ISAKMP:(0:4:SW:1):Node -966196463, Input = IKE_MESG_INTERNAL, IKE_INIT_QM*Sep 29 22:50:42.803: ISAKMP:(0:4:SW:1):Old State = IKE_QM_READY New State = IKE_QM_I_QM1*!--- IKE Phase 1 is completed successfully.***Sep 29 22:50:42.803: ISAKMP:(0:4:SW:1):Input = IKE_MESG_INTERNAL, IKE_PHASE1_COMPLETE***Sep 29 22:50:42.803: ISAKMP:(0:4:SW:1):Old State = IKE_P1_COMPLETE New State = IKE_P1_COMPLETE*Sep 29 22:50:43.907: ISAKMP (0:134217732): received packet from 10.0.0.2 dport500 sport 500 Global (I) QM_IDLE*Sep 29 22:50:43.911: ISAKMP:(0:4:SW:1): processing HASH payload. message ID = -966196463*Sep 29 22:50:43.911: ISAKMP:(0:4:SW:1): processing SA payload. message ID = -966196463*Sep 29 22:50:43.911: ISAKMP:(0:4:SW:1):Checking IPSec proposal 1*Sep 29 22:50:43.911: ISAKMP: transform 1, ESP_DES*Sep 29 22:50:43.911: ISAKMP: attributes in transform:*Sep 29 22:50:43.915: ISAKMP: encaps is 1 (Tunnel)*Sep 29 22:50:43.915: ISAKMP: SA life type in seconds*Sep 29 22:50:43.915: ISAKMP: SA life duration (basic) of 3600*Sep 29 22:50:43.915: ISAKMP: SA life type in kilobytes*Sep 29 22:50:43.915: ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0*Sep 29 22:50:43.915: ISAKMP: authenticator is HMAC-MD5*Sep 29 22:50:43.915: ISAKMP:(0:4:SW:1):atts are acceptable.*Sep 29 22:50:43.915: ISAKMP:(0:4:SW:1): processing NONCE payload. message ID =-966196463*Sep 29 22:50:43.919: ISAKMP:(0:4:SW:1): processing ID payload. message ID = -966196463*Sep 29 22:50:43.919: ISAKMP:(0:4:SW:1): processing ID payload. message ID = -966196463*Sep 29 22:50:43.923: ISAKMP: Locking peer struct 0x64C0EF54, IPSEC refcount 1 for for stuff_ke*Sep 29 22:50:43.923: ISAKMP:(0:4:SW:1): Creating IPSec SAs*Sep 29 22:50:43.923: inbound SA from 10.0.0.2 to 172.16.1.1 (f/i) 0/ 0 (proxy 172.16.2.0 to 10.1.1.0)*Sep 29 22:50:43.923: has spi 0x84E11317 and conn_id 0 and flags 2*Sep 29 22:50:43.923: lifetime of 3600 seconds*Sep 29 22:50:43.923: lifetime of 4608000 kilobytes*Sep 29 22:50:43.923: has client flags 0x0*Sep 29 22:50:43.923: outbound SA from 172.16.1.1 to 10.0.0.2 (f/i) 0/0 (proxy 10.1.1.0 to 172.16.2.0)*Sep 29 22:50:43.923: has spi -65483228 and conn_id 0 and flags A*Sep 29 22:50:43.923: lifetime of 3600 seconds*Sep 29 22:50:43.923: lifetime of 4608000 kilobytes*Sep 29 22:50:43.923: has client flags 0x0*Sep 29 22:50:43.927: ISAKMP:(0:4:SW:1): sending packet to 10.0.0.2 my_port 500peer_port 500 (I) QM_IDLE*Sep 29 22:50:43.927: ISAKMP:(0:4:SW:1):deleting node -966196463 error FALSE reason "No Error"*Sep 29 22:50:43.927: ISAKMP:(0:4:SW:1):Node -966196463, Input = IKE_MESG_FROM_PEER, IKE_QM_EXCH*!--- IKE Phase 2 is completed successfully.***Sep 29 22:50:43.927: ISAKMP:(0:4:SW:1):Old State = IKE_QM_I_QM1 New State = IKE_QM_PHASE2_COMPLETE***Sep 29 22:50:43.931: ISAKMP: Locking peer struct 0x64C0EF54, IPSEC refcount 2 for from create_transforms*Sep 29 22:50:43.931: ISAKMP: Unlocking IPSEC struct 0x64C0EF54 from create_transforms, count 1RouterA#**debug crypto ipsec***Sep 29 22:46:06.699: IPSEC(sa_request): , (key eng. msg.) OUTBOUND local= 172.16.1.1, remote= 10.0.0.2, local_proxy= 10.1.1.0/255.255.255.0/0/0 (type=4),

```
remote_proxy= 172.16.2.0/255.255.255.0/0/0 (type=4),    protocol= ESP, transform= esp-des esp-md5-hmac
(Tunnel),    lifedur= 3600s and 4608000kb,    spi= 0xD9F4BC76(3656694902), conn_id= 0, keysize= 0, flags=
0x400A*Sep 29 22:46:12.631: IPSEC(validate_proposal_request): proposal part #1,  (key eng. msg.) INBOUND
local= 172.16.1.1, remote= 10.0.0.2,    local_proxy= 10.1.1.0/255.255.255.0/0/0 (type=4),
remote_proxy= 172.16.2.0/255.255.255.0/0/0 (type=4),    protocol= ESP, transform= esp-des esp-md5-hmac
(Tunnel),    lifedur= 0s and 0kb,    spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x2*Sep 29 22:46:12.631:
Crypto mapdb : proxy_match        src addr     : 10.1.1.0        dst addr     : 172.16.2.0
protocol     : 0        src port     : 0        dst port     : 0*Sep 29 22:46:12.639: IPSEC(key_engine):
got a queue event with 2 kei messages*Sep 29 22:46:12.639: IPSEC(initialize_sas): ,  (key eng. msg.)
INBOUND local= 172.16.1.1, remote= 10.0.0.2,    local_proxy= 10.1.1.0/255.255.255.0/0/0 (type=4),
remote_proxy= 172.16.2.0/255.255.255.0/0/0 (type=4),    protocol= ESP, transform= esp-des esp-md5-hmac
(Tunnel),    lifedur= 3600s and 4608000kb,    spi= 0xD9F4BC76(3656694902), conn_id= 0, keysize= 0, flags=
0x2*Sep 29 22:46:12.639: IPSEC(initialize_sas): ,  (key eng. msg.) OUTBOUND local= 172.16.1.1, remote=
10.0.0.2,    local_proxy= 10.1.1.0/255.255.255.0/0/0 (type=4),    remote_proxy=
172.16.2.0/255.255.255.0/0/0 (type=4),    protocol= ESP, transform= esp-des esp-md5-hmac  (Tunnel),
lifedur= 3600s and 4608000kb,    spi= 0x267BC43(40352835), conn_id= 0, keysize= 0, flags= 0xA*Sep 29
22:46:12.639: Crypto mapdb : proxy_match        src addr     : 10.1.1.0        dst addr     : 172.16.2.0
protocol     : 0        src port     : 0        dst port     : 0*Sep 29 22:46:12.643:
IPSEC(crypto_ipsec_sa_find_ident_head): reconnecting withthe same proxies and 10.0.0.2*Sep 29
22:46:12.643: IPSec: Flow_switching Allocated flow for sibling 80000006*Sep 29 22:46:12.643:
IPSEC(policy_db_add_ident): src 10.1.1.0, dest 172.16.2.0 dest_port 0*Sep 29 22:46:12.643:
IPSEC(create_sa): sa created,  (sa) sa_dest= 172.16.1.1, sa_proto= 50,    sa_spi= 0xD9F4BC76(3656694902),
sa_trans= esp-des esp-md5-hmac , sa_conn_id= 2001*Sep 29 22:46:12.643: IPSEC(create_sa): sa created,
(sa) sa_dest= 10.0.0.2, sa_proto= 50,    sa_spi= 0x267BC43(40352835),    sa_trans= esp-des esp-md5-hmac ,
sa_conn_id= 2002
```

Información Relacionada

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