

Túnel ipsec de LAN a LAN entre el ejemplo de la configuración de dos Routers

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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 la versión 12.4 del Cisco IOS ® Software.

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

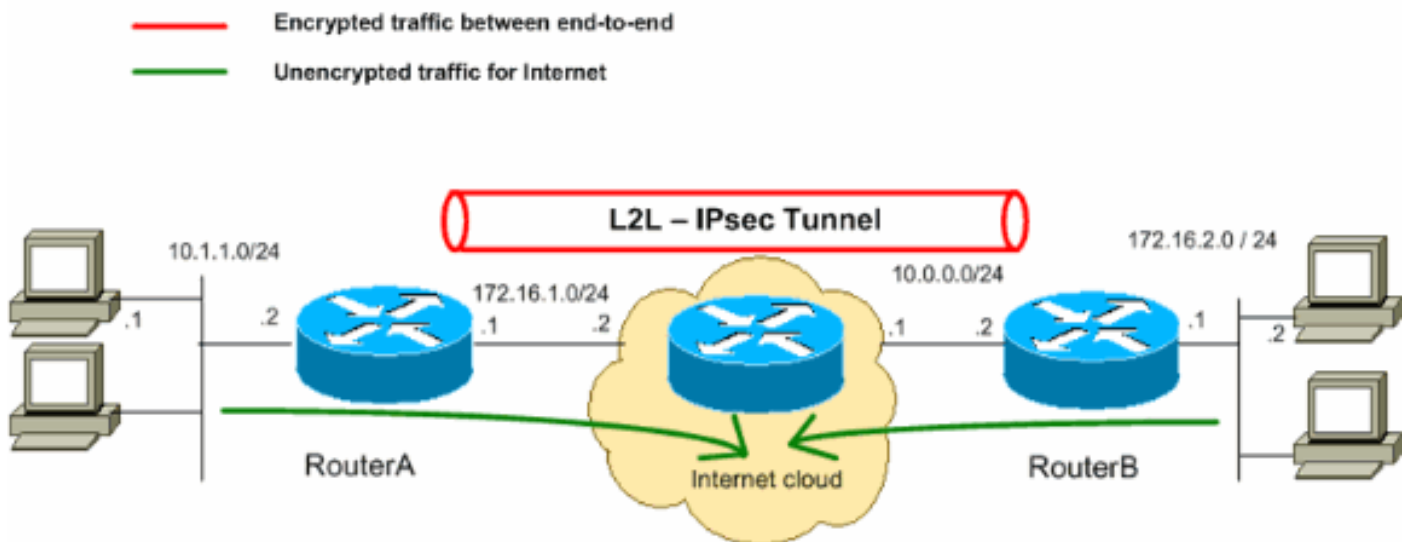
Consulte [Convenciones de Consejos Técnicos de Cisco](#) para obtener más información sobre las convenciones sobre documentos.

Configurar

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

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 los direccionamientos del [RFC 1918](#) que se han utilizado en un entorno del laboratorio.

Configuraciones

Este documento utiliza estas configuraciones:

- [Router A](#)
- [Router B](#)

Router A

```
RouterA#show running-config
Building configuration...
```

```
Current configuration : 1132 bytes
!
version 12.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname R9
!
boot-start-marker
```

```

boot-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 !--- S
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
for actual data encryption. crypto ipsec transform-set myset esp-des esp-md5-hmac ! !--- Create the act
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 se
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 server no 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 0 line aux 0 line vty 0 4 ! ! end

```

Router B

```
RouterB#show running-config
```

```
Building configuration...
```

```
Current configuration : 835 bytes
```

```

!
version 12.4
service timestamps debug uptime
service timestamps log uptime
no 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 !--- S
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
policy for actual data encryption. crypto ipsec transform-set myset esp-des esp-md5-hmac ! !--- Create
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 se
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 cr
map mymap ! interface Serial0 no ip address shutdown no fair-queue ! interface Serial1 no ip address sh
! ip classless ip route 0.0.0.0 0.0.0.0 10.0.0.1 ip 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 0 line aux 0 line vty 0 4 ! end

```

Verificación

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

El [Analizador de Cisco CLI \(solo clientes registrados\)](#) admite determinados comandos show. Utilice el analizador del CLI de Cisco para ver un análisis de la **salida del comando show**.

- **muestre ipsec crypto sa** - Muestra las configuraciones usadas por las asociaciones de seguridad vigente (SAs).

```
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 a todo el IKE actual SAs en un par.

```
RouterA#show crypto isakmp sa
```

dst	src	state	conn-id	slot	status
10.0.0.2	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

El [Analizador de Cisco CLI \(solo clientes registrados\)](#) admite determinados comandos show. Utilice el analizador del CLI de Cisco para ver un análisis de la **salida del comando show**.

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

- ponga a punto el **isakmp crypto** - Visualiza negociaciones ISAKMP de la fase 1.
- **ipsec crypto** de la depuración - Visualiza los IPsec Negotiations de la fase 2.

Salida de depuración de muestra

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 = 0
x8000000C
*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 M
ain 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_MSG_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 spor
t 500 Global (I) MM_NO_STATE
*Sep 29 22:50:38.451: ISAKMP:(0:0:N/A:0):Input = IKE_MSG_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_MSG_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 500 peer_port 500 (I) MM_SA_SETUP
*Sep 29 22:50:38.551: ISAKMP:(0:4:SW:1):Input = IKE_MSG_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 dport 500 sport 500 Global (I) MM_SA_SETUP
*Sep 29 22:50:42.095: ISAKMP:(0:4:SW:1):Input = IKE_MSG_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_MSG_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 500 peer_port 500 (I) MM_KEY_EXCH
*Sep 29 22:50:42.219: ISAKMP:(0:4:SW:1):Input = IKE_MSG_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 dport
500 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_M
AIN_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_C
OMPLETE
*Sep 29 22:50:42.795: ISAKMP:(0:4:SW:1):Old State = IKE_I_MM6 New State = IKE_P
1_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 500
peer_port 500 (I) QM_IDLE
*Sep 29 22:50:42.803: ISAKMP:(0:4:SW:1):Node -966196463, Input = IKE_MESG_INTERN
AL, IKE_INIT_QM
*Sep 29 22:50:42.803: ISAKMP:(0:4:SW:1):Old State = IKE_QM_READY New State = IK
E_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_CO
MPLETE
*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 dport
500 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 = -96
6196463
*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 = -96
6196463
*Sep 29 22:50:43.919: ISAKMP:(0:4:SW:1): processing ID payload. message ID = -96
6196463
*Sep 29 22:50:43.923: ISAKMP: Locking peer struct 0x64C0EF54, IPSEC refcount 1 f
or 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 500
peer_port 500 (I) QM_IDLE
*Sep 29 22:50:43.927: ISAKMP:(0:4:SW:1):deleting node -966196463 error FALSE rea
son "No Error"
*Sep 29 22:50:43.927: ISAKMP:(0:4:SW:1):Node -966196463, Input = IKE_MSG_FROM_P
EER, 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 = IK
E_QM_PHASE2_COMPLETE
*Sep 29 22:50:43.931: ISAKMP: Locking peer struct 0x64C0EF54, IPSEC refcount 2 f
or from create_transforms
*Sep 29 22:50:43.931: ISAKMP: Unlocking IPSEC struct 0x64C0EF54 from create_tran
sforms, count 1

RouterA#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 with
the 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](#)