

Configurar el Dynamic Multipoint VPN (DMVPN) usando el GRE sobre IPSec entre los routers múltiples

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Introducción

La función Dynamic Multipoint VPN (DMVPN) le permite a los usuarios adaptarse mejor a IPSec VPNs grandes y pequeñas al combinar túneles de generic routing encapsulation (GRE), encriptación IPSec, y Next Hop Resolution Protocol (NHRP) para ofrecer a los usuarios una configuración a través de los perfiles de crypto, que invalidan el requisito para definir los mapas estáticos crypto, y la detección dinámica de los extremos del túnel.

prerrequisitos

Requisitos

No hay requisitos específicos para este documento.

Componentes Utilizados

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

- Routers Cisco 2691 y 3725
- Cisco IOS® Software Release 12.3(3)

Nota: La transferencia de IPSec múltiple se soporta solamente en Cisco IOS Software Releases 12.2.(2)XK, 12.2.(13)T y posteriores.

El resultado del comando **show version** en el router se muestra a continuación:

```
sv9-4#show version
Cisco Internetwork Operating System Software
IOS (tm) 2600 Software (C2691-IK9S-M), Version 12.3(3),
  RELEASE SOFTWARE (fc2)
Copyright (c) 1986-2003 by cisco Systems, Inc.
Compiled Tue 19-Aug-03 05:52 by dchih
Image text-base: 0x60008954, data-base: 0x61D08000

ROM: System Bootstrap, Version 12.2(8r)T2,
  RELEASE SOFTWARE (fc1)

sv9-4 uptime is 1 hour, 39 minutes
System returned to ROM by reload
System image file is "flash:c2691-ik9s-mz.123-3.bin"

This product contains cryptographic features and is subject
to United States and local country laws governing import,
export, transfer and use. Delivery of Cisco cryptographic
products does not imply third-party authority to import,
export, distribute or use encryption. Importers, exporters,
distributors and users are responsible for compliance with
U.S. and local country laws. By using this product you agree
to comply with applicable laws and regulations. If you are
unable to comply with U.S. and local laws, return this product
immediately.

A summary of U.S. laws governing Cisco cryptographic products
may be found at:
http://www.cisco.com/wwl/export/crypto/tool/stqrg.html

If you require further assistance please contact us by sending
email to export@cisco.com.

cisco 2691 (R7000) processor (revision 0.1)
  with 98304K/32768K bytes of memory.
Processor board ID JMX0710L5CE
R7000 CPU at 160Mhz, Implementation 39,
  Rev 3.3, 256KB L2 Cache
Bridging software.
X.25 software, Version 3.0.0.
SuperLAT software (copyright 1990 by Meridian Technology Corp).
2 FastEthernet/IEEE 802.3 interface(s)
2 Serial(sync/async) network interface(s)
1 ATM network interface(s)
1 Virtual Private Network (VPN) Module(s)
DRAM configuration is 64 bits wide with parity disabled.
55K bytes of non-volatile configuration memory.
125184K bytes of ATA System CompactFlash (Read/Write)

Configuration register is 0x2102
```

La información que se presenta en este documento se originó a partir de dispositivos dentro de 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 un comando antes de ejecutarlo.

[Teoría Precedente](#)

La característica funciona según las reglas siguientes.

- Cada radio tiene un túnel IPsec permanente al hub, no a otras radios dentro de la red. Cada radio se registra como cliente del servidor NHRP.
- Cuando una radio necesita enviar un paquete a una subred (privada) de destino en otra radio, consulta al servidor NHRP para obtener la dirección (externa) real de la radio de destino.
- Después de que la radio aprende la dirección de par de la radio de destino, puede iniciar un túnel IPsec dinámico a la radio de destino.
- El túnel de radio a radio se construye sobre la interfaz de múltiples puntos GRE (mGRE).
- Los links de radio a radio se establecen según la demanda cada vez que hay tráfico entre radios. Luego, los paquetes pueden eludir el eje de conexión y utilizar el túnel radio a radio.

Las siguientes definiciones se aplican al conjunto de reglas.

- NHRP — Un protocolo del cliente y servidor donde está el concentrador el servidor y el spokes es los clientes. El hub mantiene una base de datos NHRP de las direcciones de interfaz pública de cada radio. Cada radio registra su dirección real cuando inicia las bases de datos NHRP y las consulta para obtener las direcciones reales de las radios de destino con el fin de construir túneles directos.
- Interfaz de Túnel mGRE: permite una única interfaz GRE para soportar múltiples túneles IPsec y simplifica el tamaño y la complejidad de la configuración.

Nota: Después de una cantidad preconfigurada de inactividad en los túneles de radio a radio, el router cerrará esos túneles para guardar los recursos (asociaciones de seguridad [SA] IPsec).

Nota: El perfil del tráfico debe seguir la regla del 80-20 por ciento: el 80 por ciento del tráfico consiste en el tráfico de radio a hub, y el 20 por ciento del tráfico consiste en el tráfico de radio a radio.

[Convenciones](#)

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

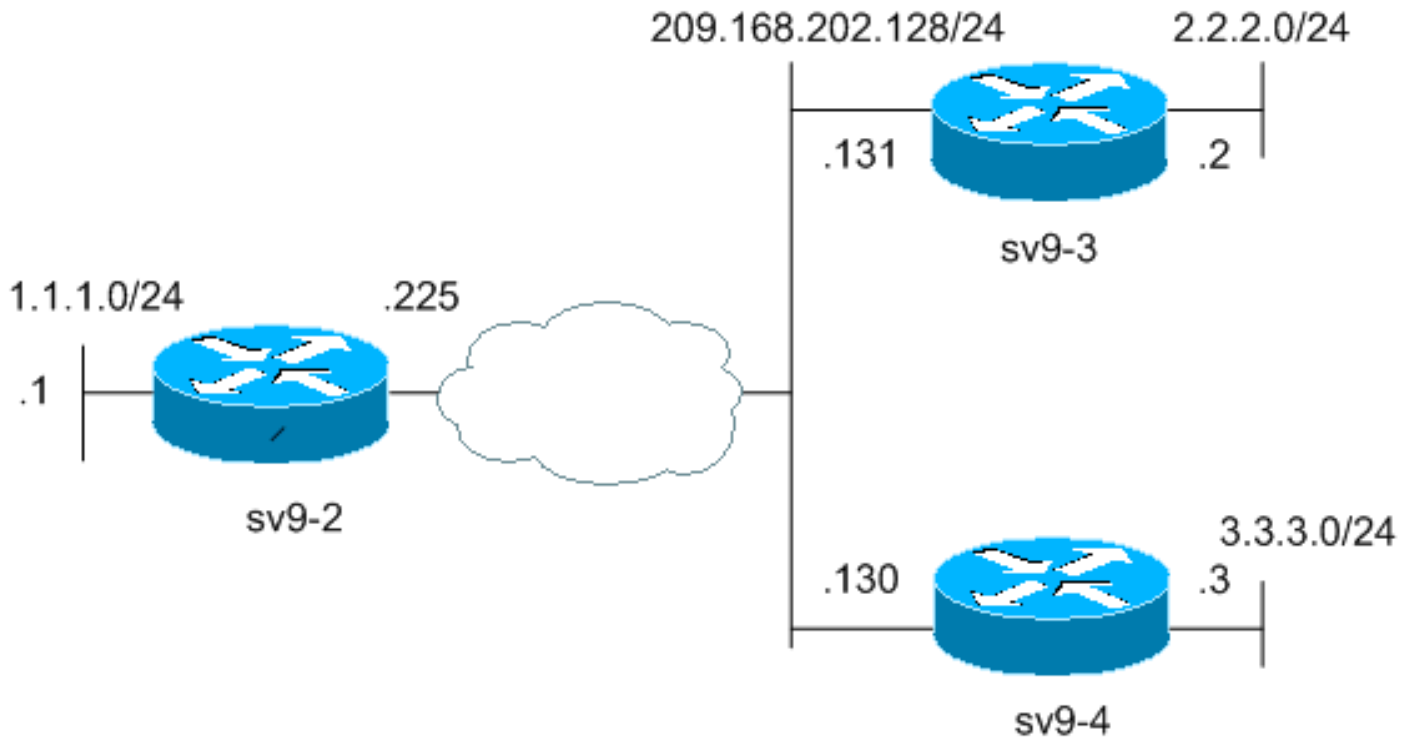
[Configurar](#)

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

Nota: Para obtener información adicional sobre los comandos que se utilizan en este documento, use la Command Lookup Tool (solo para clientes [registrados](#)).

[Diagrama de la red](#)

Este documento utiliza la instalación de red que se muestra en el siguiente diagrama.



Configuraciones

Este documento usa las configuraciones detalladas a continuación.

- [Configuración de Router del Hub \(sv9-2\)](#)
- [Configuración de Radio #1 \(sv9-3\)](#)
- [Configuración de Radio #2 \(sv9-4\)](#)

Configuración de Router del Hub (sv9-2)

```
sv9-2#show run
Building configuration...

Current configuration : 1827 bytes
!
version 12.3
service config
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname sv9-2
!
boot-start-marker
boot-end-marker
!
enable password cisco
!
no aaa new-model
ip subnet-zero
!
!
no ip domain lookup
!
ip ssh break-string
```



```

ip ssh break-string
!
!
!--- Create an ISAKMP policy for Phase 1 negotiations.
crypto isakmp policy 10
hash md5
authentication pre-share
!--- Add dynamic pre-shared keys for all the remote VPN
!--- routers and the hub router. crypto isakmp key
cisco123 address 0.0.0.0 0.0.0.0
!
!
!--- Create the Phase 2 policy for actual data
encryption. crypto ipsec transform-set strong esp-3des
esp-md5-hmac
!
!--- Create an IPsec profile to be applied dynamically
to !--- the GRE over IPsec tunnels. crypto ipsec profile
cisco
set security-association lifetime seconds 120
set transform-set strong
!
!
!
!
!
!
!
!
!
!
!
no voice hpi capture buffer
no voice hpi capture destination
!
!
fax interface-type fax-mail
!
!
!
!
!
!--- Create a GRE tunnel template to be applied to !---
all the dynamically created GRE tunnels. interface
Tunnel0
ip address 192.168.1.2 255.255.255.0
no ip redirects
ip mtu 1440
ip nhrp authentication cisco123
ip nhrp map multicast dynamic
ip nhrp map 192.168.1.1 209.168.202.225
ip nhrp map multicast 209.168.202.225
ip nhrp network-id 1
ip nhrp nhs 192.168.1.1
tunnel source FastEthernet0/0
tunnel mode gre multipoint
tunnel key 0
tunnel protection ipsec profile cisco
!
!--- This is the outbound interface. interface
FastEthernet0/0 ip address 209.168.202.131 255.255.255.0
duplex auto speed auto ! !--- This is the inbound
interface. interface FastEthernet0/1 ip address 2.2.2.2
255.255.255.0 duplex auto speed auto ! interface BRI1/0

```

```
no ip address shutdown ! interface BRI1/1 no ip address
shutdown ! interface BRI1/2 no ip address shutdown !
interface BRI1/3 no ip address shutdown ! !--- Enable a
routing protocol to send and receive !--- dynamic
updates about the private networks. router eigrp 90
network 2.2.2.0 0.0.0.255
network 192.168.1.0
no auto-summary
!
ip http server
no ip http secure-server
ip classless
ip route 0.0.0.0 0.0.0.0 209.168.202.225
ip route 3.3.3.0 255.255.255.0 Tunnel0
!
!
!
!
!
!
!
!
!
dial-peer cor custom
!
!
!
!
!
line con 0
exec-timeout 0 0
transport preferred all
transport output all
escape-character 27
line aux 0
transport preferred all
transport output all
line vty 0 4
login
transport preferred all
transport input all
transport output all
!
!
end
```

Configuración de Radio #2 (sv9-4)

```
sv9-4#show run
Building configuration...

Current configuration : 1994 bytes
!
version 12.3
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname sv9-4
!
boot-start-marker
boot system flash:c2691-ik9s-mz.123-3.bin
boot-end-marker
!
```



```
!  
no aaa new-model  
ip subnet-zero  
!  
!  
no ip domain lookup  
!  
ip ssh break-string  
!  
!  
!  
!--- Create an ISAKMP policy for Phase 1 negotiations.  
crypto isakmp policy 10  
hash md5  
authentication pre-share  
!--- Add dynamic pre-shared keys for all the remote VPN  
!--- routers and the hub router. crypto isakmp key  
cisco123 address 0.0.0.0 0.0.0.0  
!  
!  
!--- Create the Phase 2 policy for actual data  
encryption. crypto ipsec transform-set strong esp-3des  
esp-md5-hmac  
!  
!--- Create an IPsec profile to be applied dynamically  
to !--- the GRE over IPsec tunnels. crypto ipsec profile  
cisco  
set security-association lifetime seconds 120  
set transform-set strong  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
no voice hpi capture buffer  
no voice hpi capture destination  
!  
!  
!  
!  
!  
!  
!--- Create a GRE tunnel template to be applied to !---  
all the dynamically created GRE tunnels. interface  
Tunnel0  
ip address 192.168.1.3 255.255.255.0  
no ip redirects  
ip mtu 1440  
ip nhrp authentication cisco123  
ip nhrp map multicast dynamic  
ip nhrp map 192.168.1.1 209.168.202.225  
ip nhrp map multicast 209.168.202.225  
ip nhrp network-id 1  
ip nhrp nhs 192.168.1.1  
tunnel source FastEthernet0/0  
tunnel mode gre multipoint  
tunnel key 0
```


- `show crypto engine connection active`: muestra las encriptaciones y los descifrados totales por SA.
- `show crypto ipsec sa`: muestra las estadísticas en los túneles activos.
- `show crypto isakmp sa`: muestra el estado para ISAKMP SA.

Troubleshooting

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

El Túnel DMVPN se Desestabiliza de Forma Intermitente

Problema

El túnel DMVPN se desestabiliza de forma intermitente.

Solución

Cuando los túneles DMVPN se desestabilizan, verifique la vecindad entre los routers ya que los problemas con la formación de vecindad entre los routers pueden desestabilizar el túnel DMVPN. Para resolver este problema, asegúrese de que la vecindad entre los routers esté siempre activa.

Comandos para resolución de problemas

Nota: Antes de ejecutar un comando debug, consulte Información Importante sobre Comandos Debug.

- `debug crypto ipsec` — Muestra eventos de IPSec.
- `debug crypto isakmp` — Muestra mensajes acerca de eventos de intercambio de claves por Internet (IKE).
- `debug crypto engine` — Muestra información del motor de criptografía.

[Puede encontrar información adicional sobre la resolución de problemas de IPSec en Resolución de problemas de seguridad IP – Introducción y uso de los comandos de depuración.](#)

Ejemplo de resultado del comando debug

- [Debugs NHRP](#)
- [Debugs ISAKMP y la Negociación IPSec](#)

Debugs NHRP

El siguiente resultado debug muestra la solicitud de NHRP y la respuesta de resolución NHRP. Los debugs fueron capturados de las radios sv9-4 y sv9-3 y el hub sv9-2.

```
sv9-4#show debug
NHRP:
NHRP protocol debugging is on
```

sv9-4#ping 2.2.2.2

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 2.2.2.2, timeout is 2 seconds:

!!!!

Success rate is 100 percent (5/5), round-trip min/avg/max = 4/4/4 ms

sv9-4#

*Mar 1 02:06:01.667: NHRP: Sending packet to NHS 192.168.1.1 on Tunnel0

*Mar 1 02:06:01.671: NHRP: Sending packet to NHS 192.168.1.1 on Tunnel0

*Mar 1 02:06:01.675: NHRP: Sending packet to NHS 192.168.1.1 on Tunnel0

*Mar 1 02:06:01.679: NHRP: Encapsulation succeeded.

Tunnel IP addr 209.168.202.225

***Mar 1 02:06:01.679: NHRP: Send Resolution Request via Tunnel0,
packet size: 84**

*Mar 1 02:06:01.679: src: 192.168.1.3, dst: 192.168.1.1

*Mar 1 02:06:01.679: NHRP: 84 bytes out Tunnel0

*Mar 1 02:06:01.679: NHRP: Sending packet to NHS 192.168.1.1 on Tunnel0

*Mar 1 02:06:01.683: NHRP: Sending packet to NHS 192.168.1.1 on Tunnel0

*Mar 1 02:06:03.507: NHRP: Encapsulation succeeded.

Tunnel IP addr 209.168.202.225

***Mar 1 02:06:03.507: NHRP: Send Resolution Request via Tunnel0,
packet size: 84**

*Mar 1 02:06:03.507: src: 192.168.1.3, dst: 192.168.1.1

*Mar 1 02:06:03.507: NHRP: 84 bytes out Tunnel0

*Mar 1 02:06:03.511: NHRP: Receive Resolution Reply via Tunnel0,

packet size: 132

*Mar 1 02:06:03.511: NHRP: netid_in = 0, to_us = 1

***Mar 1 02:06:03.511: NHRP: No need to delay processing of resolution
event nbma src:209.168.202.130 nbma dst:209.168.202.131**

sv9-3#

05:31:12: NHRP: Sending packet to NHS 192.168.1.1 on Tunnel0

05:31:12: NHRP: Sending packet to NHS 192.168.1.1 on Tunnel0

05:31:12: NHRP: Sending packet to NHS 192.168.1.1 on Tunnel0

05:31:12: NHRP: Encapsulation succeeded. Tunnel IP addr 209.168.202.225

05:31:12: NHRP: Send Resolution Request via Tunnel0, packet size: 84

05:31:12: src: 192.168.1.2, dst: 192.168.1.1

05:31:12: NHRP: 84 bytes out Tunnel0

05:31:12: NHRP: Sending packet to NHS 192.168.1.1 on Tunnel0

05:31:12: NHRP: Receive Resolution Request via Tunnel0, packet size: 104

05:31:12: NHRP: netid_in = 1, to_us = 0

05:31:12: NHRP: Delaying resolution request nbma src:209.168.202.131

nbma dst:209.168.202.130 reason:IPSEC-IFC: need to wait for IPsec SAs.

05:31:12: NHRP: Receive Resolution Reply via Tunnel0, packet size: 112

05:31:12: NHRP: netid_in = 0, to_us = 1

05:31:12: NHRP: Resolution request is already being processed (delayed).

05:31:12: NHRP: Resolution Request not queued.

Already being processed (delayed).

05:31:12: NHRP: Sending packet to NHS 192.168.1.1 on Tunnel0

05:31:13: NHRP: Process delayed resolution request src:192.168.1.3

dst:2.2.2.2

05:31:13: NHRP: No need to delay processing of resolution event

nbma src:209.168.202.131 nbma dst:209.168.202.130

sv9-2#

*Mar 1 06:03:40.174: NHRP: Forwarding packet within same fabric
Tunnel0 -> Tunnel0

*Mar 1 06:03:40.174: NHRP: Forwarding packet within same fabric
Tunnel0 -> Tunnel0

*Mar 1 06:03:40.178: NHRP: Forwarding packet within same fabric
Tunnel0 -> Tunnel0

***Mar 1 06:03:40.182: NHRP: Receive Resolution Request via Tunnel0,
packet size: 84**

*Mar 1 06:03:40.182: NHRP: netid_in = 1, to_us = 0

```

*Mar 1 06:03:40.182: NHRP: No need to delay processing of resolution
  event nbma src:209.168.202.225 nbma dst:209.168.202.130
*Mar 1 06:03:40.182: NHRP: nhrp_rtlookup yielded Tunnel0
*Mar 1 06:03:40.182: NHRP: netid_out 1, netid_in 1
*Mar 1 06:03:40.182: NHRP: nhrp_cache_lookup_comp returned 0x0
*Mar 1 06:03:40.182: NHRP: calling nhrp_forward
*Mar 1 06:03:40.182: NHRP: Encapsulation succeeded.
  Tunnel IP addr 209.168.202.131
*Mar 1 06:03:40.182: NHRP: Forwarding Resolution Request via Tunnel0,
  packet size: 104
*Mar 1 06:03:40.182: src: 192.168.1.1, dst: 2.2.2.2
*Mar 1 06:03:40.182: NHRP: 104 bytes out Tunnel0
*Mar 1 06:03:40.182: NHRP: Forwarding packet within same fabric
  Tunnel0 -> Tunnel0
*Mar 1 06:03:40.182: NHRP: Receive Resolution Request via Tunnel0,
  packet size: 84
*Mar 1 06:03:40.182: NHRP: netid_in = 1, to_us = 0
*Mar 1 06:03:40.182: NHRP: No need to delay processing of resolution
  event nbma src:209.168.202.225 nbma dst:209.168.202.131
*Mar 1 06:03:40.182: NHRP: nhrp_rtlookup yielded Tunnel0
*Mar 1 06:03:40.182: NHRP: netid_out 1, netid_in 1
*Mar 1 06:03:40.182: NHRP: nhrp_cache_lookup_comp returned 0x63DE9498
*Mar 1 06:03:40.182: NHRP: Encapsulation succeeded.
  Tunnel IP addr 209.168.202.131
*Mar 1 06:03:40.182: NHRP: Send Resolution Reply via Tunnel0,
  packet size: 112
*Mar 1 06:03:40.186: src: 192.168.1.1, dst: 192.168.1.2
*Mar 1 06:03:40.186: NHRP: 112 bytes out Tunnel0
*Mar 1 06:03:40.186: NHRP: Forwarding packet within same fabric
  Tunnel0 -> Tunnel0
*Mar 1 06:03:42.010: NHRP: Receive Resolution Request via Tunnel0,
  packet size: 84
*Mar 1 06:03:42.010: NHRP: netid_in = 1, to_us = 0
*Mar 1 06:03:42.010: NHRP: No need to delay processing of resolution
  event nbma src:209.168.202.225 nbma dst:209.168.202.130

```

Debugs ISAKMP y la Negociación IPsec

El siguiente resultado de debug muestra el ISAKMP y la negociación IPsec. Los debugs fueron capturados de las radios sv9-4 y sv9-3.

```
sv9-4#ping 2.2.2.2
```

```

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 2.2.2.2, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/2/4 ms
sv9-4#
*Mar 1 02:25:37.107: ISAKMP (0:0): received packet from 209.168.202.131
  dport 500 sport 500 Global (N) NEW SA
*Mar 1 02:25:37.107: ISAKMP: local port 500, remote port 500
*Mar 1 02:25:37.107: ISAKMP: insert sa successfully sa = 63B38288
*Mar 1 02:25:37.107: ISAKMP (0:12): Input = IKE_MSG_FROM_PEER,
  IKE_MM_EXCH
*Mar 1 02:25:37.107: ISAKMP (0:12): Old State = IKE_READY
  New State = IKE_R_MM1
*Mar 1 02:25:37.107: ISAKMP (0:12): processing SA payload.
  message ID = 0
*Mar 1 02:25:37.107: ISAKMP (0:12): processing vendor id payload

```

*Mar 1 02:25:37.107: ISAKMP (0:12): vendor ID seems Unity/DPD but major 157 mismatch

*Mar 1 02:25:37.107: ISAKMP (0:12): vendor ID is NAT-T v3

*Mar 1 02:25:37.107: ISAKMP (0:12): processing vendor id payload

*Mar 1 02:25:37.107: ISAKMP (0:12): vendor ID seems Unity/DPD but major 123 mismatch

*Mar 1 02:25:37.107: ISAKMP (0:12): vendor ID is NAT-T v2

*Mar 1 02:25:37.107: ISAKMP: Looking for a matching key for 209.168.202.131 in default : success

*Mar 1 02:25:37.107: ISAKMP (0:12): found peer pre-shared key matching 209.168.202.131

*Mar 1 02:25:37.107: ISAKMP (0:12) local preshared key found

*Mar 1 02:25:37.107: ISAKMP : Scanning profiles for xauth ...

*Mar 1 02:25:37.107: ISAKMP (0:12): Checking ISAKMP transform 1 against priority 10 policy

*Mar 1 02:25:37.107: ISAKMP: encryption DES-CBC

*Mar 1 02:25:37.107: ISAKMP: hash MD5

*Mar 1 02:25:37.107: ISAKMP: default group 1

*Mar 1 02:25:37.107: ISAKMP: auth pre-share

*Mar 1 02:25:37.107: ISAKMP: life type in seconds

*Mar 1 02:25:37.107: ISAKMP: life duration (VPI) of 0x0 0x1 0x51 0x80

***Mar 1 02:25:37.107: ISAKMP (0:12): atts are acceptable.**

Next payload is 0

*Mar 1 02:25:37.115: ISAKMP (0:12): processing vendor id payload

*Mar 1 02:25:37.115: ISAKMP (0:12): vendor ID seems Unity/DPD but major 157 mismatch

*Mar 1 02:25:37.115: ISAKMP (0:12): vendor ID is NAT-T v3

*Mar 1 02:25:37.115: ISAKMP (0:12): processing vendor id payload

*Mar 1 02:25:37.115: ISAKMP (0:12): vendor ID seems Unity/DPD but major 123 mismatch

*Mar 1 02:25:37.115: ISAKMP (0:12): vendor ID is NAT-T v2

*Mar 1 02:25:37.115: ISAKMP (0:12): Input = IKE_MSG_INTERNAL, IKE_PROCESS_MAIN_MODE

*Mar 1 02:25:37.115: ISAKMP (0:12): Old State = IKE_R_MM1
New State = IKE_R_MM1

*Mar 1 02:25:37.115: ISAKMP (0:12): constructed NAT-T vendor-03 ID

*Mar 1 02:25:37.115: ISAKMP (0:12): sending packet to 209.168.202.131 my_port 500 peer_port 500 (R) MM_SA_SETUP

*Mar 1 02:25:37.115: ISAKMP (0:12): Input = IKE_MSG_INTERNAL, IKE_PROCESS_COMPLETE

*Mar 1 02:25:37.115: ISAKMP (0:12): Old State = IKE_R_MM1
New State = IKE_R_MM2

*Mar 1 02:25:37.123: ISAKMP (0:12): received packet from 209.168.202.131 dport 500 sport 500 Global (R) MM_SA_SETUP

*Mar 1 02:25:37.123: ISAKMP (0:12): Input = IKE_MSG_FROM_PEER, IKE_MM_EXCH

*Mar 1 02:25:37.123: ISAKMP (0:12): Old State = IKE_R_MM2
New State = IKE_R_MM3

*Mar 1 02:25:37.123: ISAKMP (0:12): processing KE payload.
message ID = 0

*Mar 1 02:25:37.131: ISAKMP (0:12): processing NONCE payload.
message ID = 0

***Mar 1 02:25:37.131: ISAKMP: Looking for a matching key for 209.168.202.131 in default : success**

***Mar 1 02:25:37.131: ISAKMP (0:12): found peer pre-shared key matching 209.168.202.131**

***Mar 1 02:25:37.131: ISAKMP: Looking for a matching key for 209.168.202.131 in default : success**

***Mar 1 02:25:37.131: ISAKMP (0:12): found peer pre-shared key matching 209.168.202.131**

*Mar 1 02:25:37.135: ISAKMP (0:12): SKEYID state generated

*Mar 1 02:25:37.135: ISAKMP (0:12): processing vendor id payload
*Mar 1 02:25:37.135: ISAKMP (0:12): vendor ID is Unity
*Mar 1 02:25:37.135: ISAKMP (0:12): processing vendor id payload
*Mar 1 02:25:37.135: ISAKMP (0:12): vendor ID is DPD
*Mar 1 02:25:37.135: ISAKMP (0:12): processing vendor id payload
*Mar 1 02:25:37.135: ISAKMP (0:12): speaking to another IOS box!
*Mar 1 02:25:37.135: ISAKMP:received payload type 17
*Mar 1 02:25:37.135: ISAKMP:received payload type 17
*Mar 1 02:25:37.135: ISAKMP (0:12): Input = IKE_MSG_INTERNAL,
IKE_PROCESS_MAIN_MODE
*Mar 1 02:25:37.135: ISAKMP (0:12): Old State = IKE_R_MM3
New State = IKE_R_MM3
*Mar 1 02:25:37.135: ISAKMP (0:12): sending packet to 209.168.202.131
my_port 500 peer_port 500 (R) MM_KEY_EXCH
*Mar 1 02:25:37.135: ISAKMP (0:12): Input = IKE_MSG_INTERNAL,
IKE_PROCESS_COMPLETE
*Mar 1 02:25:37.135: ISAKMP (0:12): Old State = IKE_R_MM3
New State = IKE_R_MM4
*Mar 1 02:25:37.147: ISAKMP (0:12): received packet from 209.168.202.131
dport 500 sport 500 Global (R) MM_KEY_EXCH
*Mar 1 02:25:37.151: ISAKMP (0:12): Input = IKE_MSG_FROM_PEER,
IKE_MM_EXCH
*Mar 1 02:25:37.151: ISAKMP (0:12): Old State = IKE_R_MM4
New State = IKE_R_MM5
*Mar 1 02:25:37.151: ISAKMP (0:12): processing ID payload.
message ID = 0
*Mar 1 02:25:37.151: ISAKMP (0:12): peer matches *none* of the profiles
*Mar 1 02:25:37.151: ISAKMP (0:12): processing HASH payload.
message ID = 0
*Mar 1 02:25:37.151: ISAKMP (0:12): processing NOTIFY INITIAL_CONTACT
protocol 1 spi 0, message ID = 0, sa = 63B38288
*Mar 1 02:25:37.151: ISAKMP (0:12): Process initial contact,
bring down existing phase 1 and 2 SA's with local 209.168.202.130
remote 209.168.202.131 remote port 500
*Mar 1 02:25:37.151: ISAKMP (0:12): SA has been authenticated with
209.168.202.131
*Mar 1 02:25:37.151: ISAKMP (0:12): peer matches *none* of the profiles
*Mar 1 02:25:37.151: ISAKMP (0:12): Input = IKE_MSG_INTERNAL,
IKE_PROCESS_MAIN_MODE
*Mar 1 02:25:37.151: ISAKMP (0:12): Old State = IKE_R_MM5
New State = IKE_R_MM5
*Mar 1 02:25:37.151: IPSEC(key_engine): got a queue event...
*Mar 1 02:25:37.151: ISAKMP (0:12): SA is doing pre-shared key
authentication using id type ID_IPV4_ADDR
*Mar 1 02:25:37.151: ISAKMP (12): ID payload
next-payload : 8
type : 1
addr : 209.168.202.130
protocol : 17
port : 500
length : 8
*Mar 1 02:25:37.151: ISAKMP (12): Total payload length: 12
*Mar 1 02:25:37.155: ISAKMP (0:12): sending packet to 209.168.202.131
my_port 500 peer_port 500 (R) MM_KEY_EXCH
*Mar 1 02:25:37.155: ISAKMP (0:12): Input = IKE_MSG_INTERNAL,
IKE_PROCESS_COMPLETE
*Mar 1 02:25:37.155: ISAKMP (0:12): Old State = IKE_R_MM5
New State = IKE_P1_COMPLETE
*Mar 1 02:25:37.155: ISAKMP (0:12): Input = IKE_MSG_INTERNAL,

IKE_PHASE1_COMPLETE

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*Mar 1 02:25:37.155: ISAKMP (0:12): Old State = IKE_P1_COMPLETE
New State = IKE_P1_COMPLETE

*Mar 1 02:25:37.159: ISAKMP (0:12): received packet from 209.168.202.131
dport 500 sport 500 Global (R) QM_IDLE
*Mar 1 02:25:37.159: ISAKMP: set new node -1682446278 to QM_IDLE
*Mar 1 02:25:37.159: ISAKMP (0:12): processing HASH payload.
message ID = -1682446278
*Mar 1 02:25:37.159: ISAKMP (0:12): processing SA payload.
message ID = -1682446278
*Mar 1 02:25:37.159: ISAKMP (0:12): Checking IPsec proposal 1
*Mar 1 02:25:37.159: ISAKMP: transform 1, ESP_3DES
*Mar 1 02:25:37.159: ISAKMP: attributes in transform:
*Mar 1 02:25:37.159: ISAKMP: encaps is 1
*Mar 1 02:25:37.159: ISAKMP: SA life type in seconds
*Mar 1 02:25:37.159: ISAKMP: SA life duration (basic) of 120
*Mar 1 02:25:37.159: ISAKMP: SA life type in kilobytes
*Mar 1 02:25:37.159: ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0
*Mar 1 02:25:37.159: ISAKMP: authenticator is HMAC-MD5
*Mar 1 02:25:37.159: ISAKMP (0:12): atts are acceptable.
*Mar 1 02:25:37.163: IPSEC(validate_proposal_request): proposal part #1,
(key eng. msg.) INBOUND local= 209.168.202.130, remote= 209.168.202.131,
local_proxy= 209.168.202.130/255.255.255.255/47/0 (type=1),
remote_proxy= 209.168.202.131/255.255.255.255/47/0 (type=1),
protocol= ESP, transform= esp-3des esp-md5-hmac ,
lifedur= 0s and 0kb,
spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x2
*Mar 1 02:25:37.163: IPSEC(kei_proxy): head = Tunnel0-head-0,
map->ivrf = , kei->ivrf =
*Mar 1 02:25:37.163: IPSEC(kei_proxy): head = Tunnel0-head-0,
map->ivrf = , kei->ivrf =
*Mar 1 02:25:37.163: ISAKMP (0:12): processing NONCE payload.
message ID = -1682446278
*Mar 1 02:25:37.163: ISAKMP (0:12): processing ID payload.
message ID = -1682446278
*Mar 1 02:25:37.163: ISAKMP (0:12): processing ID payload.
message ID = -1682446278
*Mar 1 02:25:37.163: ISAKMP (0:12): asking for 1 spis from ipsec
*Mar 1 02:25:37.163: ISAKMP (0:12): Node -1682446278,
Input = IKE_MSG_FROM_PEER, IKE_QM_EXCH
*Mar 1 02:25:37.163: ISAKMP (0:12): Old State = IKE_QM_READY
New State = IKE_QM_SPI_STARVE
*Mar 1 02:25:37.163: IPSEC(key_engine): got a queue event...
*Mar 1 02:25:37.163: IPSEC(spi_response): getting spi 3935077313
for SA from 209.168.202.130 to 209.168.202.131 for prot 3
*Mar 1 02:25:37.163: ISAKMP: received ke message (2/1)
*Mar 1 02:25:37.415: ISAKMP (0:12): sending packet to 209.168.202.131
my_port 500 peer_port 500 (R) QM_IDLE
*Mar 1 02:25:37.415: ISAKMP (0:12): Node -1682446278,
Input = IKE_MSG_FROM_IPSEC, IKE_SPI_REPLY
*Mar 1 02:25:37.415: ISAKMP (0:12): Old State = IKE_QM_SPI_STARVE
New State = IKE_QM_R_QM2
*Mar 1 02:25:37.427: ISAKMP (0:12): received packet from
209.168.202.131 dport 500 sport 500 Global (R) QM_IDLE
*Mar 1 02:25:37.439: ISAKMP (0:12): Creating IPsec SAs
*Mar 1 02:25:37.439: inbound SA from 209.168.202.131 to
209.168.202.130 (f/i) 0/ 0
(proxy 209.168.202.131 to 209.168.202.130)
*Mar 1 02:25:37.439: has spi 0xEA8C83C1 and conn_id 5361 and flags 2
*Mar 1 02:25:37.439: lifetime of 120 seconds
*Mar 1 02:25:37.439: lifetime of 4608000 kilobytes
*Mar 1 02:25:37.439: has client flags 0x0
*Mar 1 02:25:37.439: outbound SA from 209.168.202.130 to
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209.168.202.131 (f/i) 0/ 0 (proxy 209.168.202.130 to 209.168.202.131)
*Mar 1 02:25:37.439: has spi 1849847934 and conn_id 5362 and flags A
*Mar 1 02:25:37.439: lifetime of 120 seconds
*Mar 1 02:25:37.439: lifetime of 4608000 kilobytes
*Mar 1 02:25:37.439: has client flags 0x0
*Mar 1 02:25:37.439: ISAKMP (0:12): deleting node -1682446278 error
FALSE reason "quick mode done (await)"
*Mar 1 02:25:37.439: ISAKMP (0:12): Node -1682446278,
Input = IKE_MSG_FROM_PEER, IKE_QM_EXCH
*Mar 1 02:25:37.439: ISAKMP (0:12): Old State = IKE_QM_R_QM2
New State = IKE_QM_PHASE2_COMPLETE
*Mar 1 02:25:37.439: IPSEC(key_engine): got a queue event...
*Mar 1 02:25:37.439: IPSEC(initialize_sas): ,
(key eng. msg.) INBOUND local= 209.168.202.130, remote= 209.168.202.131,
local_proxy= 209.168.202.130/0.0.0.0/47/0 (type=1),
remote_proxy= 209.168.202.131/0.0.0.0/47/0 (type=1),
protocol= ESP, transform= esp-3des esp-md5-hmac ,
lifedur= 120s and 4608000kb,
spi= 0xEA8C83C1(3935077313), conn_id= 5361, keysize= 0, flags= 0x2
*Mar 1 02:25:37.439: IPSEC(initialize_sas): ,
(key eng. msg.) OUTBOUND local= 209.168.202.130, remote= 209.168.202.131,
local_proxy= 209.168.202.130/0.0.0.0/47/0 (type=1),
remote_proxy= 209.168.202.131/0.0.0.0/47/0 (type=1),
protocol= ESP, transform= esp-3des esp-md5-hmac ,
lifedur= 120s and 4608000kb,
spi= 0x6E42707E(1849847934), conn_id= 5362, keysize= 0, flags= 0xA
*Mar 1 02:25:37.439: IPSEC(kei_proxy): head = Tunnel0-head-0,
map->ivrf = , kei->ivrf =
*Mar 1 02:25:37.439: IPSEC(kei_proxy): head = Tunnel0-head-0,
map->ivrf = , kei->ivrf =
*Mar 1 02:25:37.439: IPSEC(add mtree): src 209.168.202.130,
dest 209.168.202.131, dest_port 0

***Mar 1 02:25:37.439: IPSEC(create_sa): sa created,**
(sa) sa_dest= 209.168.202.130, sa_prot= 50,
sa_spi= 0xEA8C83C1(3935077313),
sa_trans= esp-3des esp-md5-hmac , sa_conn_id= 5361
*Mar 1 02:25:37.439: IPSEC(create_sa): sa created,
(sa) sa_dest= 209.168.202.131, sa_prot= 50,
sa_spi= 0x6E42707E(1849847934),
sa_trans= esp-3des esp-md5-hmac , sa_conn_id= 5362
sv9-4#
*Mar 1 02:25:55.183: ISAKMP (0:10): purging node 180238748
*Mar 1 02:25:55.323: ISAKMP (0:10): purging node -1355110639
sv9-4#

sv9-3#

05:50:48: ISAKMP: received ke message (1/1)
05:50:48: ISAKMP (0:0): SA request profile is (NULL)
05:50:48: ISAKMP: local port 500, remote port 500
05:50:48: ISAKMP: set new node 0 to QM_IDLE
05:50:48: ISAKMP: insert sa successfully sa = 62DB93D0
05:50:48: ISAKMP (0:26): Can not start Aggressive mode, trying Main mode.
05:50:48: ISAKMP: Looking for a matching key for 209.168.202.130
in default : success
05:50:48: ISAKMP (0:26): found peer pre-shared key
matching 209.168.202.130
05:50:48: ISAKMP (0:26): constructed NAT-T vendor-03 ID
05:50:48: ISAKMP (0:26): constructed NAT-T vendor-02 ID
05:50:48: ISAKMP (0:26): Input = IKE_MSG_FROM_IPSEC, IKE_SA_REQ_MM
05:50:48: ISAKMP (0:26): Old State = IKE_READY New State = IKE_I_MM1

05:50:48: ISAKMP (0:26): beginning Main Mode exchange

05:50:48: ISAKMP (0:26): sending packet to 209.168.202.130 my_port 500
peer_port 500 (I) MM_NO_STATE

05:50:48: ISAKMP (0:26): received packet from 209.168.202.130 dport 500
sport 500 Global (I) MM_NO_STATE

05:50:48: ISAKMP (0:26): Input = IKE_MSG_FROM_PEER, IKE_MM_EXCH

05:50:48: ISAKMP (0:26): Old State = IKE_I_MM1 New State = IKE_I_MM2

05:50:48: ISAKMP (0:26): processing SA payload. message ID = 0

05:50:48: ISAKMP (0:26): processing vendor id payload

05:50:48: ISAKMP (0:26): vendor ID seems Unity/DPD
but major 157 mismatch

05:50:48: ISAKMP (0:26): vendor ID is NAT-T v3

05:50:48: ISAKMP: Looking for a matching key for 209.168.202.130
in default : success

05:50:48: ISAKMP (0:26): found peer pre-shared key
matching 209.168.202.130

05:50:48: ISAKMP (0:26) local preshared key found

05:50:48: ISAKMP : Scanning profiles for xauth ...

05:50:48: ISAKMP (0:26): Checking ISAKMP transform 1 against
priority 10 policy

05:50:48: ISAKMP: encryption DES-CBC

05:50:48: ISAKMP: hash MD5

05:50:48: ISAKMP: default group 1

05:50:48: ISAKMP: auth pre-share

05:50:48: ISAKMP: life type in seconds

05:50:48: ISAKMP: life duration (VPI) of 0x0 0x1 0x51 0x80

05:50:48: ISAKMP (0:26): atts are acceptable. Next payload is 0

05:50:48: ISAKMP (0:26): processing vendor id payload

05:50:48: ISAKMP (0:26): vendor ID seems Unity/DPD
but major 157 mismatch

05:50:48: ISAKMP (0:26): vendor ID is NAT-T v3

05:50:48: ISAKMP (0:26): Input = IKE_MSG_INTERNAL,
IKE_PROCESS_MAIN_MODE

05:50:48: ISAKMP (0:26): Old State = IKE_I_MM2
New State = IKE_I_MM2

05:50:48: ISAKMP (0:26): sending packet to 209.168.202.130 my_port 500
peer_port 500 (I) MM_SA_SETUP

05:50:48: ISAKMP (0:26): Input = IKE_MSG_INTERNAL, IKE_PROCESS_COMPLETE

05:50:48: ISAKMP (0:26): Old State = IKE_I_MM2 New State = IKE_I_MM3

05:50:48: ISAKMP (0:26): received packet from 209.168.202.130 dport 500
sport 500 Global (I) MM_SA_SETUP

05:50:48: ISAKMP (0:26): Input = IKE_MSG_FROM_PEER, IKE_MM_EXCH

05:50:48: ISAKMP (0:26): Old State = IKE_I_MM3 New State = IKE_I_MM4

05:50:48: ISAKMP (0:26): processing KE payload. message ID = 0

05:50:48: ISAKMP (0:26): processing NONCE payload. message ID = 0

**05:50:48: ISAKMP: Looking for a matching key for 209.168.202.130
in default : success**

**05:50:48: ISAKMP (0:26): found peer pre-shared key
matching 209.168.202.130**

**05:50:48: ISAKMP: Looking for a matching key for 209.168.202.130
in default : success**

**05:50:48: ISAKMP (0:26): found peer pre-shared key
matching 209.168.202.130**

05:50:48: ISAKMP (0:26): SKEYID state generated

05:50:48: ISAKMP (0:26): processing vendor id payload

05:50:48: ISAKMP (0:26): vendor ID is Unity

05:50:48: ISAKMP (0:26): processing vendor id payload

05:50:48: ISAKMP (0:26): vendor ID is DPD

05:50:48: ISAKMP (0:26): processing vendor id payload

05:50:48: ISAKMP (0:26): speaking to another IOS box!

05:50:48: ISAKMP:received payload type 17

05:50:48: ISAKMP:received payload type 17
05:50:48: ISAKMP (0:26): Input = IKE_MSG_INTERNAL,
IKE_PROCESS_MAIN_MODE
05:50:48: ISAKMP (0:26): Old State = IKE_I_MM4
New State = IKE_I_MM4
05:50:48: ISAKMP (0:26): Send initial contact
05:50:48: ISAKMP (0:26): SA is doing pre-shared key authentication
using id type ID_IPV4_ADDR
05:50:48: ISAKMP (26): ID payload
next-payload : 8
type : 1
addr : 209.168.202.131
protocol : 17
port : 500
length : 8
05:50:48: ISAKMP (26): Total payload length: 12
05:50:48: ISAKMP (0:26): sending packet to 209.168.202.130 my_port 500
peer_port 500 (I) MM_KEY_EXCH
05:50:48: ISAKMP (0:26): Input = IKE_MSG_INTERNAL,
IKE_PROCESS_COMPLETE
05:50:48: ISAKMP (0:26): Old State = IKE_I_MM4
New State = IKE_I_MM5
05:50:48: ISAKMP (0:26): received packet from 209.168.202.130 dport 500
sport 500 Global (I) MM_KEY_EXCH
05:50:48: ISAKMP (0:26): Input = IKE_MSG_FROM_PEER,
IKE_MM_EXCH
05:50:48: ISAKMP (0:26): Old State = IKE_I_MM5
New State = IKE_I_MM6
05:50:48: ISAKMP (0:26): processing ID payload. message ID = 0
05:50:48: ISAKMP (0:26): processing HASH payload. message ID = 0
05:50:48: ISAKMP (0:26): SA has been authenticated with 209.168.202.130
05:50:48: ISAKMP (0:26): peer matches *none* of the profiles
05:50:48: ISAKMP (0:26): Input = IKE_MSG_INTERNAL,
IKE_PROCESS_MAIN_MODE
05:50:48: ISAKMP (0:26): Old State = IKE_I_MM6
New State = IKE_I_MM6
05:50:48: ISAKMP (0:26): Input = IKE_MSG_INTERNAL,
IKE_PROCESS_COMPLETE
05:50:48: ISAKMP (0:26): Old State = IKE_I_MM6
New State = IKE_P1_COMPLETE
05:50:48: ISAKMP (0:26): beginning Quick Mode exchange,
M-ID of -1682446278
05:50:48: ISAKMP (0:26): sending packet to 209.168.202.130 my_port 500
peer_port 500 (I) QM_IDLE
05:50:48: ISAKMP (0:26): Node -1682446278, Input = IKE_MSG_INTERNAL,
IKE_INIT_QM
05:50:48: ISAKMP (0:26): Old State = IKE_QM_READY
New State = IKE_QM_I_QM1
05:50:48: ISAKMP (0:26): Input = IKE_MSG_INTERNAL,
IKE_PHASE1_COMPLETE
05:50:48: ISAKMP (0:26): Old State = IKE_P1_COMPLETE
New State = IKE_P1_COMPLETE
05:50:48: ISAKMP (0:26): received packet from 209.168.202.130 dport 500
sport 500 Global (I) QM_IDLE
05:50:48: ISAKMP (0:26): processing HASH payload.
message ID = -1682446278
05:50:48: ISAKMP (0:26): processing SA payload.
message ID = -1682446278

05:50:48: ISAKMP (0:26): Checking IPsec proposal 1
05:50:48: ISAKMP: transform 1, ESP_3DES
05:50:48: ISAKMP: attributes in transform:
05:50:48: ISAKMP: encaps is 1
05:50:48: ISAKMP: SA life type in seconds
05:50:48: ISAKMP: SA life duration (basic) of 120
05:50:48: ISAKMP: SA life type in kilobytes
05:50:48: ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0
05:50:48: ISAKMP: authenticator is HMAC-MD5
05:50:48: ISAKMP (0:26): atts are acceptable.
05:50:48: IPSEC(validate_proposal_request): proposal part #1,
(key eng. msg.) INBOUND local= 209.168.202.131,
remote= 209.168.202.130,
local_proxy= 209.168.202.131/255.255.255.255/47/0 (type=1),
remote_proxy= 209.168.202.130/255.255.255.255/47/0 (type=1),
protocol= ESP, transform= esp-3des esp-md5-hmac ,
lifedur= 0s and 0kb,
spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x2
05:50:48: IPSEC(kei_proxy): head = Tunnel0-head-0,
map->ivrf = , kei->ivrf =
05:50:48: IPSEC(kei_proxy): head = Tunnel0-head-0,
map->ivrf = , kei->ivrf =
05:50:48: ISAKMP (0:26): processing NONCE payload.
message ID = -1682446278
05:50:48: ISAKMP (0:26): processing ID payload.
message ID = -1682446278
05:50:48: ISAKMP (0:26): processing ID payload.
message ID = -1682446278
05:50:48: ISAKMP (0:26): Creating IPsec SAs
05:50:48: inbound SA from 209.168.202.130 to
209.168.202.131 (f/i) 0/ 0
(proxy 209.168.202.130 to 209.168.202.131)
05:50:48: has spi 0x6E42707E and conn_id 5547 and flags 2
05:50:48: lifetime of 120 seconds
05:50:48: lifetime of 4608000 kilobytes
05:50:48: has client flags 0x0
05:50:48: outbound SA from 209.168.202.131 to 209.168.202.130
(f/i) 0/ 0 (proxy 209.168.202.131 to 209.168.202.130)
05:50:48: has spi -359889983 and conn_id 5548 and flags A
05:50:48: lifetime of 120 seconds
05:50:48: lifetime of 4608000 kilobytes
05:50:48: has client flags 0x0
05:50:48: IPSEC(key_engine): got a queue event...
05:50:48: IPSEC(initialize_sas): ,
(key eng. msg.) INBOUND local= 209.168.202.131,
remote= 209.168.202.130,
local_proxy= 209.168.202.131/0.0.0.0/47/0 (type=1),
remote_proxy= 209.168.202.130/0.0.0.0/47/0 (type=1),
protocol= ESP, transform= esp-3des esp-md5-hmac ,
lifedur= 120s and 4608000kb,
spi= 0x6E42707E(1849847934), conn_id= 5547, keysize= 0, flags= 0x2
05:50:48: IPSEC(initialize_sas): ,
(key eng. msg.) OUTBOUND local= 209.168.202.131,
remote= 209.168.202.130,
local_proxy= 209.168.202.131/0.0.0.0/47/0 (type=1),
remote_proxy= 209.168.202.130/0.0.0.0/47/0 (type=1),
protocol= ESP, transform= esp-3des esp-md5-hmac ,
lifedur= 120s and 4608000kb,
spi= 0xEA8C83C1(3935077313), conn_id= 5548, keysize= 0, flags= 0xA
05:50:48: IPSEC(kei_proxy): head = Tunnel0-head-0,
map->ivrf = , kei->ivrf =
05:50:48: IPSEC(kei_proxy): head = Tunnel0-head-0,
map->ivrf = , kei->ivrf =
05:50:48: IPSEC(add mtree): src 209.168.202.131, dest 209.168.202.130,

dest_port 0

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05:50:48: IPSEC(create_sa): sa created,
(sa) sa_dest= 209.168.202.131, sa_prot= 50,
sa_spi= 0x6E42707E(1849847934),
sa_trans= esp-3des esp-md5-hmac , sa_conn_id= 5547
05:50:48: IPSEC(create_sa): sa created,
(sa) sa_dest= 209.168.202.130, sa_prot= 50,
sa_spi= 0xEA8C83C1(3935077313),
sa_trans= esp-3des esp-md5-hmac , sa_conn_id= 5548
05:50:48: ISAKMP (0:26): sending packet to 209.168.202.130 my_port 500
peer_port 500 (I) QM_IDLE
05:50:48: ISAKMP (0:26): deleting node -1682446278 error FALSE reason ""
05:50:48: ISAKMP (0:26): Node -1682446278, Input = IKE_MESG_FROM_PEER,
IKE_QM_EXCH
05:50:48: ISAKMP (0:26): Old State = IKE_QM_I_QM1
New State = IKE_QM_PHASE2_COMPLETE
05:50:49: ISAKMP (0:21): purging node 334570133
sv9-3#
```

[Información Relacionada](#)

- [Negociación IPSec/Protocolos IKE](#)
- [Soporte Técnico - Cisco Systems](#)