

Настройка динамических многоточечных виртуальных частных сетей (DMVPN) с применением GRE поверх IPSec между несколькими маршрутизаторами

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Введение

Функция динамической многоточечной VPN (DMVPN) позволяет пользователям лучше масштабировать большие и малые сети VPN с IPSec путем объединения туннелей общей инкапсуляции маршрутизации (GRE), шифрования IPSec, и протокола разрешения следующего перехода (NHRP), чтобы предоставить пользователям легкую настройку через криптографические профили, которые заменяют требования для определения статических криптографических карт и динамическое обнаружение конечных точек туннеля.

Предварительные условия

Требования

Для этого документа отсутствуют особые требования.

Используемые компоненты

Сведения в этом документе основаны на версиях оборудования и программного обеспечения, указанных ниже.

- Cisco 2691 и 3725 маршрутизаторов
- Cisco IOS® Software Release 12.3(3)

Примечание: Passthrough Несколько транзитных каналов IPSec только поддерживается на Cisco IOS Software Release 12.2. (2) XK и 12.2. (13) T и позже.

Ниже приведены результаты выполнения команды **show version** в маршрутизаторе:

```
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/wvl/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
```

Сведения, содержащиеся в данном документе, были получены с устройств в специальной лабораторной среде. Все устройства, описанные в данном документе, были запущены с конфигурацией по умолчанию. При работе с реальной сетью необходимо полностью осознавать возможные результаты использования всех команд.

Теоретические сведения

Функция работает в соответствии с следующими правилами.

- Каждое оконечное устройство обладает постоянным туннелем IPSec направленным к концентратору, а не к другим оконечным устройствам внутри сети. Каждое оконечное устройство зарегистрировано в качестве клиента сервера NHRP.
- Когда оконечное устройство отправляет пакет в сеть назначения (частную) на другом оконечном устройстве, им посылается запрос на сервер NHRP о реальном (внешнем) адресе оконечного устройства-получателя.
- После того, как вызывающее оконечное устройство определяет адрес однорангового узла устройства получателя, оно может организовать динамический туннель IPSec к устройству получателя.
- Туннели между оконечными устройствами построены на основе многоточечного интерфейса GRE (mGRE).
- Связи между оконечными устройствами устанавливаются по запросу всякий раз, когда есть трафик между оконечными устройствами. Таким образом, пакеты могут обходить концентратор и использовать туннель от одного оконечного устройства к другому.

Следующие определения относятся к набору правил.

- NHRP – является протоколом клиента и сервера, где концентратор является сервером, а оконечное устройство клиентом. Концентратор содержит NHRP-базу данных адресов публичных интерфейсов каждой спицы. Каждое оконечное устройство регистрирует настоящий адрес при перезагрузке, и отправляет запросы в базу данных NHRP о настоящих адресах оконечных устройств, чтобы создать прямые туннели.
- туннельный интерфейс mGRE позволяет одному GRE интерфейсу поддерживать несколько туннелей IPsec, а также упрощает размер и сложность конфигурации.

Примечание: После предварительно сконфигурированной суммы бездействия на туннелях конечного маршрутизатор - конечного маршрутизатора маршрутизатор разъединит те туннели для сохранения ресурсов (Сопоставления безопасности IPsec [SA]).

Примечание: Профиль трафика должен придерживаться правила на 80-20 процентов: 80% трафика состоит из трафика оконечного устройства к концентратору, а 20% - это трафик между оконечными устройствами.

Условные обозначения

[Дополнительные сведения об условных обозначениях см. в документе Условные обозначения технических терминов Cisco.](#)

Настройка

В этом разделе содержатся сведения о настройке функций, описанных в этом документе.

Примечание: [Поиск дополнительной информации о командах в данном документе можно выполнить с помощью средства "Command Lookup" \(Поиск команд\) \(только для зарегистрированных клиентов\).](#)

Схема сети

В данном документе используется сетевая установка, показанная на следующей схеме.

Конфигурации

В данном документе используются следующие конфигурации.

- [Конфигурация концентратора - маршрутизатора \(sv9-2\)](#)
- [Конфигурация оконечного устройства #1 \(sv9-3\)](#)
- [Конфигурация оконечного устройства #2 \(sv9-4\)](#)

Конфигурация концентратора - маршрутизатора (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 ! !--- Create an Internet Security Association
and Key Management !--- Protocol (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. 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 which will be applied to
!--- all the dynamically created GRE tunnels. interface
Tunnel0 ip address 192.168.1.1 255.255.255.0 no ip
redirects ip mtu 1440 ip nhrp authentication cisco123 ip
nhrp map multicast dynamic ip nhrp network-id 1 no ip
split-horizon eigrp 90 no ip next-hop-self eigrp 90
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 209.168.202.225 255.255.255.0
duplex auto speed auto ! !--- This is the inbound
interface. interface FastEthernet0/1 ip address 1.1.1.1
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 1.1.1.0 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 0.0.0.0 209.168.202.226 ! ! !
! ! ! ! ! ! ! ! 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 password cisco login transport preferred
all transport input all transport output all ! ! end

```

Конфигурация оконечного устройства #1 (sv9-3)

```

sv9-3#show run Building configuration... Current
configuration : 1993 bytes ! version 12.3 service
timestamps debug uptime service timestamps log uptime no
service password-encryption ! hostname sv9-3 ! boot-
start-marker boot system flash:c3725-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 ! ! 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

```

Конфигурация оконечного устройства #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
tunnel protection ipsec profile cisco ! !--- This is the
outbound interface. interface FastEthernet0/0 ip address
209.168.202.130 255.255.255.0 duplex auto speed auto !
interface Serial0/0 no ip address shutdown clockrate
2000000 no fair-queue ! !--- This is the inbound
interface. interface FastEthernet0/1 ip address 3.3.3.3
255.255.255.0 duplex auto speed auto ! interface
Serial0/1 no ip address shutdown clockrate 2000000 !

```

```
interface ATM1/0 no ip address shutdown no atm ilmi-keepalive ! !--- Enable a routing protocol to send and receive !--- dynamic updates about the private networks.
router eigrp 90 network 3.3.3.0 0.0.0.255 network 192.168.1.0 no auto-summary ! ip http server no ip http secure-server ip classless ip route 2.2.2.0 255.255.255.0 Tunnel0 ip route 0.0.0.0 0.0.0.0 209.168.202.225 ! ! ! ! ! ! ! ! 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 password cisco login transport preferred all transport input all transport output all ! ! end
```

Проверка

В этом разделе приведена информация, которую можно использовать для проверки правильности работы конфигурации.

Некоторые команды show поддерживаются Средством интерпретации выходных данных(только зарегистрированные клиенты), которое позволяет просматривать аналитику выходных данных команды show.

- show crypto engine connection active – отображает общее количество зашифрованных и расшифрованных пакетов для SA.
- show crypto ipsec sa – отображает статистику по активным туннелям.
- show crypto isakmp sa – отображает состояние ISAKMP SA.

Устранение неполадок

В этом разделе описывается процесс устранения неполадок конфигурации.

Туннель DMVPN колеблется периодически

Проблема

Туннель DMVPN колеблется периодически.

Решение

Когда туннельная откидная створка DMVPN, проверьте соседство между маршрутизаторами, поскольку проблемы с формированием соседства между маршрутизаторами могут заставить туннель DMVPN колебаться. Для решения этой проблемы удостоверьтесь, что соседство между маршрутизаторами подключено всегда.

Команды для устранения неполадок

Примечание: Прежде чем применять команды отладки, ознакомьтесь с разделом "Важные сведения о командах отладки".

- debug crypto ipsec– показывает события IPsec.

- `debug crypto isakmp` – выдает сообщения о событиях обмена ключами в Интернете (IKE, Internet Key Exchange).
- `debug crypto engine`– выводит информацию о криптографическом модуле.

[Дополнительные сведения об устранении проблем IPSec см. в документе Основные сведения об устранении проблем в IP-безопасности и об использовании команд отладки.](#)

Пример результата отладки

- [Отладочные данные NHRP](#)
- [Отладочные данные ISAKMP и согласования IPSec Negotiation](#)

Отладочные данные NHRP

В следующих выходных данных отладки показан запрос NHRP и ответ преобразования NHRP. Отладочные данные были получены с оконечных устройств sv9-4 и sv9-3, а также с концентратора 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

Отладочные данные ISAKMP и согласования IPsec Negotiation

В следующих выходных данных отладки показаны ISAKMP и согласование IPsec. Отладочные данные были получены с оконечных устройств sv9-4 и 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 *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): 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 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 **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_MSG_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#

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