

Cisco IOS Router - NEM으로 EzVPN 구성

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소개

이 문서에서는 Easy VPN(EzVPN)을 사용하는 Cisco 871 라우터와 Cisco 7200VXR 라우터 간의 IPsec에 대한 샘플 컨피그레이션을 제공합니다. 7200은 Easy VPN 서버 역할을 하며 871은 Easy VPN Remote 역할을 합니다. 이 예에서는 루프백 인터페이스가 두 라우터에서 모두 프라이빗 네트워크로 사용됩니다. 필요에 따라 FastEthernet 또는 Serial 인터페이스와 같은 다른 인터페이스로 교체할 수 있습니다.

Easy VPN을 사용하여 PIX/ASA 7.x와 Cisco 871 라우터 간에 IPsec을 구성하려면 [ASA 5500을 서버로 사용하는 PIX/ASA 7.x Easy VPN 및 Cisco 871을 Easy VPN Remote Configuration 예로](#) 참조하십시오.

Cisco IOS® Easy VPN Remote Hardware Client와 PIX Easy VPN Server 간에 IPsec을 구성하려면 PIX Easy [VPN Remote Hardware Client to a PIX Easy VPN Server Configuration Example](#)을 참조하십시오.

Cisco VPN 3000 Concentrator에 연결되는 [NEM\(Network Extension Mode\)](#)에서 Cisco IOS 라우터를 EzVPN으로 구성하려면 [VPN 3000 Concentrator를 사용하여 Cisco IOS에서 Cisco EzVPN 클라이언트 구성을 참조하십시오.](#)

사전 요구 사항

요구 사항

이 컨피그레이션을 시도하기 전에 IPsec 및 Cisco 7200/871 운영 체제에 대한 기본적인 이해가 있어야 합니다.

사용되는 구성 요소

이 문서의 정보는 다음 소프트웨어 및 하드웨어 버전을 기반으로 합니다.

- Cisco Easy VPN Server는 Cisco IOS® Software 릴리스 12.4(4)T1을 실행하는 7200 라우터 (VXR)입니다.
- Cisco Easy VPN Remote는 Cisco IOS Software 릴리스 12.4(2)T1을 실행하는 871W 라우터입니다.

이 문서의 정보는 특정 랩 환경의 디바이스를 토대로 작성되었습니다. 이 문서에 사용된 모든 디바이스는 초기화된(기본) 컨피그레이션으로 시작되었습니다. 현재 네트워크가 작동 중인 경우, 모든 명령어의 잠재적인 영향을 미리 숙지하시기 바랍니다.

표기 규칙

문서 규칙에 대한 자세한 내용은 [Cisco 기술 팁 표기 규칙을 참고하십시오.](#)

구성

이 섹션에는 이 문서에서 설명하는 기능을 구성하기 위한 정보가 표시됩니다.

참고: [명령 조회 도구](#)([등록된](#) 고객만 해당)를 사용하여 이 문서에 사용된 명령에 대한 자세한 내용을 확인하십시오.

네트워크 다이어그램

이 문서에서는 다음 네트워크 설정을 사용합니다.



참고: 루프백 인터페이스가 내부 PC를 시뮬레이션하고 있습니다.

구성

이 문서에서는 다음 구성을 사용합니다.

- [Easy VPN Server\(Cisco 7200VXR Router\)](#)
- [Easy VPN Remote\(Cisco 871W Router\)](#)

Easy VPN Server(Cisco 7200VXR Router)

```
3-07-07-7200VXR#show running-config
Building configuration...

Current configuration : 2059 bytes
!
version 12.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname 3-07-07-7200VXR
!
boot-start-marker
boot-end-marker
!
!
!--- Enable Authentication, Authorizing and Accounting
(AAA) !--- for user authentication and group
authorization. aaa new-model
!

!--- Enable the AAA commands in order !--- to enable
Xauth for user authentication. aaa authentication login
userauthen local

!--- Enable the AAA commands !--- in order to enable
group authorization. aaa authorization network
groupauthor local
!
aaa session-id common
!
resource policy
!
ip subnet-zero
ip cef
!
!
!--- Define the username and password to use for Xauth.
username cisco password 0 cisco123
!
!
!--- Create an Internet Security Association and !---
Key Management Protocol (ISAKMP) policy for Phase 1
negotiations. crypto isakmp policy 3
  encr 3des
  authentication pre-share
  group 2
!
!
!--- Create a group with the pre-shared key for IKE
authentication. crypto isakmp client configuration group
vpngrp
  key cisco123
!
!
!--- Create the Phase 2 policy for actual data
encryption. crypto ipsec transform-set myset esp-3des
esp-sha-hmac
!

!--- Create a dynamic map and !--- apply the transform
set that was created earlier. crypto dynamic-map dynmap
```

```

10
  set transform-set myset
!
!
!--- Create the actual crypto map, !--- and apply the
AAA lists that were created earlier. !--- These commands
associate the AAA commands to the crypto map. crypto map
clientmap client authentication list userauthen
crypto map clientmap isakmp authorization list
groupauthor
crypto map clientmap 10 ipsec-isakmp dynamic dynmap
!
!
!
interface Loopback10
  ip address 10.10.10.1 255.255.255.0
!
interface GigabitEthernet0/1
  ip address 158.100.101.254 255.255.255.0
  ip nat inside
  ip virtual-reassembly
  duplex auto
  speed auto
  media-type rj45
  no negotiation auto
!
interface GigabitEthernet0/2
  ip address 158.100.102.254 255.255.255.0
  ip nat outside
  ip virtual-reassembly
  duplex auto
  speed 100
  media-type rj45
  no negotiation auto
!
!
!
!--- Apply the crypto map on the interface where !---
traffic leaves the router. interface GigabitEthernet0/3
  ip address 172.16.186.186 255.255.255.0
  duplex auto
  speed auto
  media-type rj45
  no negotiation auto
  crypto map clientmap
!
interface FastEthernet1/0
  no ip address
  shutdown
  duplex half
!
ip default-gateway 172.16.186.1
ip classless
ip route 0.0.0.0 0.0.0.0 172.16.186.1
no ip http server
no ip http secure-server
!
!
ip nat Stateful id 10
ip nat pool honnat 158.100.96.90 158.100.96.99 netmask
255.255.255.0
ip nat inside source route-map test pool honnat mapping-
id 10 overload
!

```

```
logging alarm informational
access-list 100 permit ip any any
!
route-map test permit 10
  match ip address 100
!
!
!
!
control-plane
!
!
!
!
!
!
gatekeeper
  shutdown
!
!
line con 0
  logging synchronous
  stopbits 1
line aux 0
  stopbits 1
line vty 0 4
!
!
end
```

Easy VPN Remote(Cisco 871W Router)

```
3-03-06-871W#show running-config
Current configuration : 1563 bytes
!
version 12.4
no service pad
service timestamps debug datetime msec
service timestamps log datetime msec
service password-encryption
!
hostname 3-03-06-871W
!
boot-start-marker
boot-end-marker
!
!
no aaa new-model
!
resource policy
!
ip cef
!
!
!
!
ip name-server 171.70.168.183
!
!
username cisco privilege 15 password 7 00071A150754
!
!
!
```

```

!
!--- Set the parameters to connect to the !---
appropriate Easy VPN group on the Easy VPN server.
crypto ipsec client ezvpn ez
  connect auto
  group vpngrp key cisco123
  mode network-extension
  peer 172.16.186.186
  xauth userid mode interactive
!
!
!
!--- Define the inside interfaces that will access !---
and can be accessed via Easy VPN. interface Loopback0
  ip address 10.12.130.1 255.255.255.255
  crypto ipsec client ezvpn ez inside
!
interface FastEthernet0
!
interface FastEthernet1
!
interface FastEthernet2
!
interface FastEthernet3

!--- Use the crypto ipsec client ezvpn

      command on the !--- interface that connects
to the Easy VPN server !--- in order to complete the
Easy VPN.

interface FastEthernet4
  ip address 172.16.186.130 255.255.255.0
  duplex auto
  speed auto
  crypto ipsec client ezvpn ez
!
interface Dot11Radio0
  no ip address
  shutdown
  speed basic-1.0 basic-2.0 basic-5.5 6.0 9.0 basic-11.0
12.0 18.0 24.0 36.0 48.0 54.0
  station-role root
!
interface Vlan1
  no ip address
!
ip default-gateway 172.16.186.1
ip route 0.0.0.0 0.0.0.0 172.16.186.1
!
!
no ip http server
no ip http secure-server
!
access-list 121 dynamic testlist permit tcp any host
12.12.12.12 eq 5900
snmp-server community presto RW
!
!
!
route-map polo permit 10

```

```

!
route-map asa permit 10
!
tacacs-server host 66.94.234.13
tacacs-server directed-request
!
control-plane
!
!
line con 0
  no modem enable
line aux 0
line vty 0 4
  login
!
scheduler max-task-time 5000
!
webvpn context Default_context
  ssl authenticate verify all
!
no inservice
!
end

```

다음을 확인합니다.

이 섹션을 사용하여 컨피그레이션이 제대로 작동하는지 확인합니다.

- [Cisco 7200 Easy VPN Server show 명령 및 샘플 출력](#)
- [Cisco 871W Easy VPN Remote show 명령 및 샘플 출력](#)

Output [Interpreter 도구](#)([등록된](#) 고객만 해당)(OIT)는 특정 **show** 명령을 지원합니다. OIT를 사용하여 **show** 명령 출력의 분석을 봅니다.

Cisco 7200 Easy VPN Server show 명령 및 샘플 출력

- **show crypto isakmp sa** — 피어의 현재 IKE(Internet Key Exchange) 보안 연결(SA)을 모두 표시합니다.

```

3-07-07-7200VXR#show crypto isakmp sa
IPv4 Crypto ISAKMP SA
dst          src          state          conn-id slot status
172.16.186.186 172.16.186.130 QM_IDLE          1008    0 ACTIVE

```

```

IPv6 Crypto ISAKMP SA

```

- **show crypto ipsec sa** - 피어 간에 구축된 IPsec SA를 표시합니다.

```

3-07-07-7200VXR#show crypto ipsec sa

interface: GigabitEthernet0/3
  Crypto map tag: clientmap, local addr 172.16.186.186

protected vrf: (none)
local  ident (addr/mask/prot/port): (0.0.0.0/0.0.0.0/0/0)
remote ident (addr/mask/prot/port): (10.12.130.1/255.255.255.255/0/0)
current_peer 172.16.186.130 port 500
  PERMIT, flags={}
  #pkts encaps: 5, #pkts encrypt: 5, #pkts digest: 5
  #pkts decaps: 5, #pkts decrypt: 5, #pkts verify: 5
  #pkts compressed: 0, #pkts decompressed: 0
  #pkts not compressed: 0, #pkts compr. failed: 0

```

```

#pkts not decompressed: 0, #pkts decompress failed: 0
#send errors 0, #recv errors 0

local crypto endpt.: 172.16.186.186, remote crypto endpt.: 172.16.186.130
path mtu 1500, ip mtu 1500
current outbound spi: 0x29354010(691355664)

inbound esp sas:
spi: 0x6875F644(1752561220)
transform: esp-3des esp-sha-hmac ,
in use settings ={Tunnel, }
conn id: 11, flow_id: SW:11, crypto map: clientmap
sa timing: remaining key lifetime (k/sec): (4439946/3526)
IV size: 8 bytes
replay detection support: Y
Status: ACTIVE

inbound ah sas:

inbound pcp sas:

outbound esp sas:
spi: 0x29354010(691355664)
transform: esp-3des esp-sha-hmac ,
in use settings ={Tunnel, }
conn id: 12, flow_id: SW:12, crypto map: clientmap
sa timing: remaining key lifetime (k/sec): (4439946/3524)
IV size: 8 bytes
replay detection support: Y
Status: ACTIVE

```

Cisco 871W Easy VPN Remote show 명령 및 샘플 출력

- **show crypto isakmp sa** - 피어의 현재 모든 IKE SA를 표시합니다.

```

3-03-06-871W#show crypto isakmp sa
IPv4 Crypto ISAKMP SA
dst          src          state          conn-id slot status
172.16.186.186 172.16.186.130 QM_IDLE          2003    0 ACTIVE

```

```
IPv6 Crypto ISAKMP SA
```

- **show crypto ipsec sa** - 피어 간에 구축된 IPsec SA를 표시합니다.

```

3-03-06-871W#show crypto ipsec sa
interface: FastEthernet4
Crypto map tag: FastEthernet4-head-0, local addr 172.16.186.130

```

```

protected vrf: (none)
local ident (addr/mask/prot/port): (10.12.130.1/255.255.255.255/0/0)
remote ident (addr/mask/prot/port): (0.0.0.0/0.0.0.0/0/0)
current_peer 172.16.186.186 port 500
PERMIT, flags={origin_is_acl,}
#pkts encaps: 5, #pkts encrypt: 5, #pkts digest: 5
#pkts decaps: 5, #pkts decrypt: 5, #pkts verify: 5
#pkts compressed: 0, #pkts decompressed: 0
#pkts not compressed: 0, #pkts compr. failed: 0
#pkts not decompressed: 0, #pkts decompress failed: 0
#send errors 0, #recv errors 0

local crypto endpt.: 172.16.186.130, remote crypto endpt.: 172.16.186.186
path mtu 1500, ip mtu 1500
current outbound spi: 0x6875F644(1752561220)

```

```
inbound esp sas:
```



```
spi: 0x29354010(691355664)
transform: esp-3des esp-sha-hmac ,
in use settings ={Tunnel, }
conn id: 11, flow_id: Motorola SEC 1.0:11, crypto map: FastEthernet4-head-0
sa timing: remaining key lifetime (k/sec): (4607687/3531)
IV size: 8 bytes
replay detection support: Y
Status: ACTIVE
```

inbound ah sas:

inbound pcp sas:

outbound esp sas:

```
spi: 0x6875F644(1752561220)
transform: esp-3des esp-sha-hmac ,
in use settings ={Tunnel, }
conn id: 12, flow_id: Motorola SEC 1.0:12, crypto map: FastEthernet4-head-0
sa timing: remaining key lifetime (k/sec): (4607687/3528)
IV size: 8 bytes
replay detection support: Y
Status: ACTIVE
```

outbound ah sas:

outbound pcp sas:

• show crypto ipsec client ezvpn - Cisco Easy VPN Remote 컨피그레이션을 표시합니다.

```
3-03-06-871W#show crypto ipsec client ezvpn
Easy VPN Remote Phase: 6
```

```
Tunnel name : ez
Inside interface list: Loopback0
Outside interface: FastEthernet4
Current State: IPSEC_ACTIVE
Last Event: SOCKET_UP
Save Password: Disallowed
Current EzVPN Peer: 172.16.186.186
```

```
3-03-06-871W#ping 10.10.10.1 source 10.12.130.1
```

```
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.10.10.1, timeout is 2 seconds:
Packet sent with a source address of 10.12.130.1
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/2/4 ms
```

문제 해결

이 섹션에서는 컨피그레이션 문제를 해결할 수 있습니다.

Output [Interpreter 도구\(등록된 고객만 해당\)](#)(OIT)는 특정 **show** 명령을 지원합니다. OIT를 사용하여 **show** 명령 출력의 분석을 봅니다.

참고: debug 명령을 사용하기 전에 디버그 [명령에 대한 중요 정보](#)를 참조하십시오.

이 문서에서 설명한 대로 Easy VPN Remote 및 Easy VPN Server를 설정했지만 문제가 계속 발생하면 각 디바이스의 디버그 출력 및 Cisco Technical Support의 분석을 위한 show 명령의 출력을 수집합니다.

다음 섹션에는 **debug** 명령 및 샘플 출력이 표시됩니다.

- [Easy VPN Server 명령](#)
- [Easy VPN Remote 명령](#)

Easy VPN Server 명령

- **debug crypto ipsec** - 2단계의 IPsec 협상을 표시합니다.
- **debug crypto isakmp** - 1단계의 ISAKMP 협상을 표시합니다.

```
3-07-07-7200VXR#debug crypto ipsec
3-07-07-7200VXR#debug crypto isakmp
*May  4 00:44:19.389: IPSEC(key_engine): got a queue event with 1 KMI message(s)
*May  4 00:44:20.937: ISAKMP (0:0): received packet from 172.16.186.130 dport
                    500 sport 500 Global (N) NEW SA
*May  4 00:44:20.937: ISAKMP: Created a peer struct for 172.16.186.130, peer port 500
*May  4 00:44:20.937: ISAKMP: New peer created peer = 0x6745B8E0
                    peer_handle = 0x80000009
*May  4 00:44:20.937: ISAKMP: Locking peer struct 0x6745B8E0, refcount 1
                    for crypto_isakmp_process_block
*May  4 00:44:20.937: ISAKMP:(0):Setting client config settings 6741FF98
*May  4 00:44:20.937: ISAKMP:(0):(Re)Setting client xauth list and state
*May  4 00:44:20.937: ISAKMP/xauth: initializing AAA request
*May  4 00:44:20.937: ISAKMP: local port 500, remote port 500
*May  4 00:44:20.937: ISAKMP: Find a dup sa in the avl tree during
                    calling isadb_insert sa = 67369734
*May  4 00:44:20.937: ISAKMP:(0): processing SA payload. message ID = 0
*May  4 00:44:20.937: ISAKMP:(0): processing ID payload. message ID = 0
*May  4 00:44:20.937: ISAKMP (0:0): ID payload
                    next-payload : 13
                    type          : 11
                    group id       : vpngrp
                    protocol       : 17
                    port           : 0
                    length         : 14
*May  4 00:44:20.937: ISAKMP:(0):: peer matches *none* of the profiles
*May  4 00:44:20.937: ISAKMP:(0): processing vendor id payload
*May  4 00:44:20.937: ISAKMP:(0): vendor ID seems Unity/DPD but major 245 mismatch
*May  4 00:44:20.937: ISAKMP (0:0): vendor ID is NAT-T v7
*May  4 00:44:20.937: ISAKMP:(0): processing vendor id payload
*May  4 00:44:20.937: ISAKMP:(0): vendor ID seems Unity/DPD but major 157 mismatch
*May  4 00:44:20.937: ISAKMP:(0): vendor ID is NAT-T v3
*May  4 00:44:20.937: ISAKMP:(0): processing vendor id payload
*May  4 00:44:20.937: ISAKMP:(0): vendor ID seems Unity/DPD but major 123 mismatch
*May  4 00:44:20.937: ISAKMP:(0): vendor ID is NAT-T v2
*May  4 00:44:20.937: ISAKMP:(0): Authentication by xauth preshared
*May  4 00:44:20.937: ISAKMP:(0):Checking ISAKMP transform 1 against priority 3 policy
*May  4 00:44:20.937: ISAKMP:      encryption AES-CBC
*May  4 00:44:20.937: ISAKMP:      keylength of 128
*May  4 00:44:20.937: ISAKMP:      hash SHA
*May  4 00:44:20.937: ISAKMP:      default group 2
*May  4 00:44:20.937: ISAKMP:      auth XAUTHInitPreShared
*May  4 00:44:20.937: ISAKMP:      life type in seconds
*May  4 00:44:20.937: ISAKMP:      life duration (VPI) of 0x0 0x20 0xC4 0x9B
*May  4 00:44:20.937: ISAKMP:(0):Encryption algorithm offered does not match policy!
*May  4 00:44:20.937: ISAKMP:(0):atts are not acceptable. Next payload is 3
*May  4 00:44:20.937: ISAKMP:(0):Checking ISAKMP transform 2 against priority 3 policy
*May  4 00:44:20.937: ISAKMP:      encryption AES-CBC
*May  4 00:44:20.937: ISAKMP:      keylength of 128
*May  4 00:44:20.937: ISAKMP:      hash MD5
```

*May 4 00:44:20.937: ISAKMP: default group 2
*May 4 00:44:20.937: ISAKMP: auth XAUTHInitPreShared
*May 4 00:44:20.937: ISAKMP: life type in seconds
*May 4 00:44:20.937: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B
*May 4 00:44:20.937: ISAKMP:(0):Encryption algorithm offered does not match policy!
*May 4 00:44:20.937: ISAKMP:(0):atts are not acceptable. Next payload is 3
*May 4 00:44:20.937: ISAKMP:(0):Checking ISAKMP transform 3 against priority 3 policy
*May 4 00:44:20.937: ISAKMP: encryption AES-CBC
*May 4 00:44:20.937: ISAKMP: keylength of 192
*May 4 00:44:20.937: ISAKMP: hash SHA
*May 4 00:44:20.937: ISAKMP: default group 2
*May 4 00:44:20.937: ISAKMP: auth XAUTHInitPreShared
*May 4 00:44:20.937: ISAKMP: life type in seconds
*May 4 00:44:20.937: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B
*May 4 00:44:20.937: ISAKMP:(0):Encryption algorithm offered does not match policy!
*May 4 00:44:20.937: ISAKMP:(0):atts are not acceptable. Next payload is 3
*May 4 00:44:20.937: ISAKMP:(0):Checking ISAKMP transform 4 against priority 3 policy
*May 4 00:44:20.937: ISAKMP: encryption AES-CBC
*May 4 00:44:20.937: ISAKMP: keylength of 192
*May 4 00:44:20.937: ISAKMP: hash MD5
*May 4 00:44:20.937: ISAKMP: default group 2
*May 4 00:44:20.937: ISAKMP: auth XAUTHInitPreShared
*May 4 00:44:20.937: ISAKMP: life type in seconds
*May 4 00:44:20.937: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B
*May 4 00:44:20.937: ISAKMP:(0):Encryption algorithm offered does not match policy!
*May 4 00:44:20.937: ISAKMP:(0):atts are not acceptable. Next payload is 3
*May 4 00:44:20.937: ISAKMP:(0):Checking ISAKMP transform 5 against priority 3 policy
*May 4 00:44:20.937: ISAKMP: encryption AES-CBC
*May 4 00:44:20.937: ISAKMP: keylength of 256
*May 4 00:44:20.937: ISAKMP: hash SHA
*May 4 00:44:20.937: ISAKMP: default group 2
*May 4 00:44:20.937: ISAKMP: auth XAUTHInitPreShared
*May 4 00:44:20.937: ISAKMP: life type in seconds
*May 4 00:44:20.937: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B
*May 4 00:44:20.937: ISAKMP:(0):Encryption algorithm offered does not match policy!
*May 4 00:44:20.937: ISAKMP:(0):atts are not acceptable. Next payload is 3
*May 4 00:44:20.937: ISAKMP:(0):Checking ISAKMP transform 6 against priority 3 policy
*May 4 00:44:20.937: ISAKMP: encryption AES-CBC
*May 4 00:44:20.937: ISAKMP: keylength of 256
*May 4 00:44:20.941: ISAKMP: hash MD5
*May 4 00:44:20.941: ISAKMP: default group 2
*May 4 00:44:20.941: ISAKMP: auth XAUTHInitPreShared
*May 4 00:44:20.941: ISAKMP: life type in seconds
*May 4 00:44:20.941: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B
*May 4 00:44:20.941: ISAKMP:(0):Encryption algorithm offered does not match policy!
*May 4 00:44:20.941: ISAKMP:(0):atts are not acceptable. Next payload is 3
*May 4 00:44:20.941: ISAKMP:(0):Checking ISAKMP transform 7 against priority 3 policy
*May 4 00:44:20.941: ISAKMP: encryption AES-CBC
*May 4 00:44:20.941: ISAKMP: keylength of 128
*May 4 00:44:20.941: ISAKMP: hash SHA
*May 4 00:44:20.941: ISAKMP: default group 2
*May 4 00:44:20.941: ISAKMP: auth pre-share
*May 4 00:44:20.941: ISAKMP: life type in seconds
*May 4 00:44:20.941: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B
*May 4 00:44:20.941: ISAKMP:(0):Encryption algorithm offered does not match policy!
*May 4 00:44:20.941: ISAKMP:(0):atts are not acceptable. Next payload is 3
*May 4 00:44:20.941: ISAKMP:(0):Checking ISAKMP transform 8 against priority 3 policy
*May 4 00:44:20.941: ISAKMP: encryption AES-CBC
*May 4 00:44:20.941: ISAKMP: keylength of 128
*May 4 00:44:20.941: ISAKMP: hash MD5
*May 4 00:44:20.941: ISAKMP: default group 2
*May 4 00:44:20.941: ISAKMP: auth pre-share
*May 4 00:44:20.941: ISAKMP: life type in seconds
*May 4 00:44:20.941: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B

*May 4 00:44:20.941: ISAKMP:(0):Encryption algorithm offered does not match policy!
*May 4 00:44:20.941: ISAKMP:(0):atts are not acceptable. Next payload is 3
*May 4 00:44:20.941: ISAKMP:(0):Checking ISAKMP transform 9 against priority 3 policy
*May 4 00:44:20.941: ISAKMP: encryption AES-CBC
*May 4 00:44:20.941: ISAKMP: keylength of 192
*May 4 00:44:20.941: ISAKMP: hash SHA
*May 4 00:44:20.941: ISAKMP: default group 2
*May 4 00:44:20.941: ISAKMP: auth pre-share
*May 4 00:44:20.941: ISAKMP: life type in seconds
*May 4 00:44:20.941: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B
*May 4 00:44:20.941: ISAKMP:(0):Encryption algorithm offered does not match policy!
*May 4 00:44:20.941: ISAKMP:(0):atts are not acceptable. Next payload is 3
*May 4 00:44:20.941: ISAKMP:(0):Checking ISAKMP transform 10 against priority 3 policy
*May 4 00:44:20.941: ISAKMP: encryption AES-CBC
*May 4 00:44:20.941: ISAKMP: keylength of 192
*May 4 00:44:20.941: ISAKMP: hash MD5
*May 4 00:44:20.941: ISAKMP: default group 2
*May 4 00:44:20.941: ISAKMP: auth pre-share
*May 4 00:44:20.941: ISAKMP: life type in seconds
*May 4 00:44:20.941: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B
*May 4 00:44:20.941: ISAKMP:(0):Encryption algorithm offered does not match policy!
*May 4 00:44:20.941: ISAKMP:(0):atts are not acceptable. Next payload is 3
*May 4 00:44:20.941: ISAKMP:(0):Checking ISAKMP transform 11 against priority 3 policy
*May 4 00:44:20.941: ISAKMP: encryption AES-CBC
*May 4 00:44:20.941: ISAKMP: keylength of 256
*May 4 00:44:20.941: ISAKMP: hash SHA
*May 4 00:44:20.941: ISAKMP: default group 2
*May 4 00:44:20.941: ISAKMP: auth pre-share
*May 4 00:44:20.941: ISAKMP: life type in seconds
*May 4 00:44:20.941: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B
*May 4 00:44:20.941: ISAKMP:(0):Encryption algorithm offered does not match policy!
*May 4 00:44:20.941: ISAKMP:(0):atts are not acceptable. Next payload is 3
*May 4 00:44:20.941: ISAKMP:(0):Checking ISAKMP transform 12 against priority 3 policy
*May 4 00:44:20.941: ISAKMP: encryption AES-CBC
*May 4 00:44:20.941: ISAKMP: keylength of 256
*May 4 00:44:20.941: ISAKMP: hash MD5
*May 4 00:44:20.941: ISAKMP: default group 2
*May 4 00:44:20.941: ISAKMP: auth pre-share
*May 4 00:44:20.941: ISAKMP: life type in seconds
*May 4 00:44:20.941: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B
*May 4 00:44:20.941: ISAKMP:(0):Encryption algorithm offered does not match policy!
*May 4 00:44:20.941: ISAKMP:(0):atts are not acceptable. Next payload is 3
*May 4 00:44:20.941: ISAKMP:(0):Checking ISAKMP transform 13 against priority 3 policy
*May 4 00:44:20.941: ISAKMP: encryption 3DES-CBC
*May 4 00:44:20.941: ISAKMP: hash SHA
*May 4 00:44:20.941: ISAKMP: default group 2
*May 4 00:44:20.941: ISAKMP: auth XAUTHInitPreShared
*May 4 00:44:20.941: ISAKMP: life type in seconds
*May 4 00:44:20.941: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B
*May 4 00:44:20.941: **ISAKMP:(0):atts are acceptable. Next payload is 3**
*May 4 00:44:20.941: ISAKMP:(0): processing vendor id payload
*May 4 00:44:20.941: ISAKMP:(0): vendor ID seems Unity/DPD but major 245 mismatch
*May 4 00:44:20.941: ISAKMP (0:0): vendor ID is NAT-T v7
*May 4 00:44:20.941: ISAKMP:(0): processing vendor id payload
*May 4 00:44:20.941: ISAKMP:(0): vendor ID seems Unity/DPD but major 157 mismatch
*May 4 00:44:20.941: ISAKMP:(0): vendor ID is NAT-T v3
*May 4 00:44:20.941: ISAKMP:(0): processing vendor id payload
*May 4 00:44:20.941: ISAKMP:(0): vendor ID seems Unity/DPD but major 123 mismatch
*May 4 00:44:20.941: ISAKMP:(0): vendor ID is NAT-T v2
*May 4 00:44:20.941: ISAKMP:(0): processing KE payload. message ID = 0
*May 4 00:44:20.957: ISAKMP:(0): processing NONCE payload. message ID = 0
*May 4 00:44:20.957: ISAKMP:(0): processing vendor id payload
*May 4 00:44:20.957: ISAKMP:(0): vendor ID is DPD
*May 4 00:44:20.957: ISAKMP:(0): processing vendor id payload

*May 4 00:44:20.957: ISAKMP:(0): vendor ID seems Unity/DPD but major 79 mismatch
*May 4 00:44:20.957: ISAKMP:(0): vendor ID is XAUTH
*May 4 00:44:20.957: ISAKMP:(0): processing vendor id payload
*May 4 00:44:20.957: ISAKMP:(0): claimed IOS but failed authentication
*May 4 00:44:20.957: ISAKMP:(0): processing vendor id payload
*May 4 00:44:20.957: ISAKMP:(0): vendor ID is Unity
*May 4 00:44:20.957: ISAKMP:(0):Input = IKE_MESG_FROM_PEER, IKE_AM_EXCH
*May 4 00:44:20.957: ISAKMP:(0):Old State = IKE_READY New State = IKE_R_AM_AAA_AWAIT

*May 4 00:44:20.957: ISAKMP:(1008): constructed NAT-T vendor-07 ID
*May 4 00:44:20.957: ISAKMP:(1008):SA is doing pre-shared key authentication
plus XAUTH using id type ID_IPV4_ADDR
*May 4 00:44:20.957: ISAKMP (0:1008): ID payload
next-payload : 10
type : 1
address : 172.16.186.186
protocol : 17
port : 0
length : 12
*May 4 00:44:20.957: ISAKMP:(1008):Total payload length: 12
*May 4 00:44:20.957: ISAKMP:(1008): sending packet to 172.16.186.130 my_port
500 peer_port 500 (R) AG_INIT_EXCH
*May 4 00:44:20.957: ISAKMP:(1008):Input = IKE_MESG_FROM_AAA, PRESHARED_KEY_REPLY
*May 4 00:44:20.957: ISAKMP:(1008):Old State = IKE_R_AM_AAA_AWAIT New State = IKE_R_AM2

*May 4 00:44:20.985: ISAKMP (0:1008): received packet from 172.16.186.130 dport
500 sport 500 Global (R) AG_INIT_EXCH
*May 4 00:44:20.985: ISAKMP:(1008): processing HASH payload. message ID = 0
*May 4 00:44:20.985: ISAKMP:(1008): processing NOTIFY INITIAL_CONTACT protocol 1
spi 0, message ID = 0, sa = 67369734
*May 4 00:44:20.985: ISAKMP:(1008):SA authentication status:
authenticated
*May 4 00:44:20.985: ISAKMP:(1008):SA has been authenticated with 172.16.186.130
*May 4 00:44:20.985: ISAKMP:(1008):SA authentication status:
authenticated
*May 4 00:44:20.985: ISAKMP:(1008): Process initial contact,
bring down existing phase 1 and 2 SA's with local 172.16.186.186 remote 172.16.186.130
remote port 500
*May 4 00:44:20.985: ISAKMP:(1008):returning IP addr to the address pool
*May 4 00:44:20.985: ISAKMP: Trying to insert a peer 172.16.186.186/172.16.186.130/500/,
and inserted successfully 6745B8E0.
*May 4 00:44:20.985: ISAKMP: set new node 1361385973 to CONF_XAUTH
*May 4 00:44:20.985: ISAKMP:(1008):Sending NOTIFY RESPONDER_LIFETIME protocol 1
spi 1722618680, message ID = 1361385973
*May 4 00:44:20.985: ISAKMP:(1008): sending packet to 172.16.186.130 my_port 500
peer_port 500 (R) QM_IDLE
*May 4 00:44:20.985: ISAKMP:(1008):purging node 1361385973
*May 4 00:44:20.985: ISAKMP: Sending phase 1 responder lifetime 86400

*May 4 00:44:20.985: ISAKMP:(1008):Input = IKE_MESG_FROM_PEER, IKE_AM_EXCH
*May 4 00:44:20.985: ISAKMP:(1008):Old State = IKE_R_AM2 New State = **IKE_P1_COMPLETE**
!--- Requesting Xauth. *May 4 00:44:20.985: IPSEC(key_engine): got a queue event with 1 KMI
message(s) *May 4 00:44:20.985: ISAKMP:(1008):Need XAUTH *May 4 00:44:20.985: ISAKMP: set new
node -605466681 to CONF_XAUTH *May 4 00:44:20.985: ISAKMP/xauth: request attribute
XAUTH_USER_NAME_V2 *May 4 00:44:20.985: ISAKMP/xauth: request attribute XAUTH_USER_PASSWORD_V2
*May 4 00:44:20.985: ISAKMP:(1008): initiating peer config to 172.16.186.130. ID = -605466681
*May 4 00:44:20.985: ISAKMP:(1008): sending packet to 172.16.186.130 my_port 500 peer_port 500
(R) CONF_XAUTH *May 4 00:44:20.985: ISAKMP:(1008):Input = IKE_MESG_INTERNAL, IKE_PHASE1_COMPLETE
*May 4 00:44:20.985: ISAKMP:(1008):Old State = IKE_P1_COMPLETE New State = IKE_XAUTH_REQ_SENT
*May 4 00:44:35.985: ISAKMP:(1008): retransmitting phase 2 CONF_XAUTH -605466681 ... *May 4
00:44:35.985: ISAKMP (0:1008): incrementing error counter on node, attempt 1 of 5: retransmit
phase 2 *May 4 00:44:35.985: ISAKMP (0:1008): incrementing error counter on sa, attempt 1 of 5:
retransmit phase 2 *May 4 00:44:35.985: ISAKMP:(1008): retransmitting phase 2 -605466681
CONF_XAUTH *May 4 00:44:35.985: ISAKMP:(1008): sending packet to 172.16.186.130 my_port 500

peer_port 500 (R) CONF_XAUTH R# 3-07-07-7200VXR# *May 4 00:44:50.985: ISAKMP:(1008):
retransmitting phase 2 CONF_XAUTH -605466681 ... *May 4 00:44:50.985: ISAKMP (0:1008):
incrementing error counter on node, attempt 2 of 5: retransmit phase 2 *May 4 00:44:50.985:
ISAKMP (0:1008): incrementing error counter on sa, attempt 2 of 5: retransmit phase 2 *May 4
00:44:50.985: ISAKMP:(1008): retransmitting phase 2 -605466681 CONF_XAUTH *May 4 00:44:50.985:
ISAKMP:(1008): sending packet to 172.16.186.130 my_port 500 peer_port 500 (R) CONF_XAUTH 3-07-
07-7200VXR# *May 4 00:45:01.997: ISAKMP (0:1008): received packet from 172.16.186.130 dport 500
sport 500 Global (R) CONF_XAUTH *May 4 00:45:01.997: ISAKMP:(1008):processing transaction
payload from 172.16.186.130. message ID = -605466681 *May 4 00:45:01.997: ISAKMP: Config payload
REPLY *May 4 00:45:01.997: ISAKMP/xauth: reply attribute XAUTH_USER_NAME_V2 *May 4 00:45:01.997:
ISAKMP/xauth: reply attribute XAUTH_USER_PASSWORD_V2 *May 4 00:45:01.997: ISAKMP:(1008):deleting
node -605466681 error FALSE reason "Done with xauth request/reply exchange" *May 4 00:45:01.997:
ISAKMP:(1008):Input = IKE_MSG_FROM_PEER, IKE_CFG_REPLY *May 4 00:45:01.997: ISAKMP:(1008):Old
State = IKE_XAUTH_REQ_SENT New State = IKE_XAUTH_AAA_CONT_LOGIN_AWAIT *May 4 00:45:01.997:
ISAKMP: set new node 1283697340 to CONF_XAUTH *May 4 00:45:01.997: ISAKMP:(1008): initiating
peer config to 172.16.186.130. ID = 1283697340 *May 4 00:45:01.997: ISAKMP:(1008): sending
packet to 172.16.186.130 my_port 5 3-07-07-7200VX00 peer_port 500 (R) CONF_XAUTH *May 4
00:45:01.997: ISAKMP:(1008):Input = IKE_MSG_FROM_AAA, IKE_AAA_CONT_LOGIN *May 4 00:45:01.997:
ISAKMP:(1008):Old State = IKE_XAUTH_AAA_CONT_LOGIN_AWAIT New State = IKE_XAUTH_SET_SENT *May 4
00:45:02.005: ISAKMP (0:1008): received packet from 172.16.186.130 dport 500 sport 500 Global
(R) CONF_XAUTH *May 4 00:45:02.005: ISAKMP:(1008):processing transaction payload from
172.16.186.130. message ID = 1283697340 *May 4 00:45:02.005: ISAKMP: Config payload ACK *May 4
00:45:02.005: ISAKMP:(1008): XAUTH ACK Processed *May 4 00:45:02.005: ISAKMP:(1008):deleting
node 1283697340 error FALSE reason "Transaction mode done" *May 4 00:45:02.005:
ISAKMP:(1008):Input = IKE_MSG_FROM_PEER, IKE_CFG_ACK *May 4 00:45:02.005: ISAKMP:(1008):Old
State = IKE_XAUTH_SET_SENT New State = IKE_P1_COMPLETE *May 4 00:45:02.005: ISAKMP:(1008):Input
= IKE_MSG_INTERNAL, IKE_PHASE1_COMPLETE *May 4 00:45:02.005: ISAKMP:(1008):Old State =
IKE_P1_COMPLETE New State = IKE_P1_COMPLETE *May 4 00:45:02.005: ISAKMP (0:1008): received
packet from 172.16.186.130 dport 500 sport 500 Global (R) QM_IDLE *May 4 00:45:02.005: ISAKMP:
set new node 104696831 to QM_IDLE *May 4 00:45:02.005: ISAKMP:(1008):processing transaction
payload from 172.16.186.130. message ID = 104696831 *May 4 00:45:02.005: ISAKMP: Config payload
REQUEST *May 4 00:45:02.005: ISAKMP:(1008):checking request: *May 4 00:45:02.005: ISAKMP:
MODECFG_CONFIG_URL *May 4 00:45:02.005: ISAKMP: MODECFG_CONFIG_VERSION *May 4 00:45:02.009:
ISAKMP: IP4_DNS *May 4 00:45:02.009: ISAKMP: IP4_DNS *May 4 00:45:02.009: ISAKMP: IP4_NBNS *May
4 00:45:02.009: ISAKMP: IP4_NBNS *May 4 00:45:02.009: ISAKMP: SPLIT_INCLUDE *May 4 00:45:02.009:
ISAKMP: SPLIT_DNS *May 4 00:45:02.009: ISAKMP: DEFAULT_DOMAIN *May 4 00:45:02.009: ISAKMP:
MODECFG_SAVEPWD *May 4 00:45:02.009: ISAKMP: INCLUDE_LOCAL_LAN *May 4 00:45:02.009: ISAKMP: PFS
*May 4 00:45:02.009: ISAKMP: BACKUP_SERVER *May 4 00:45:02.009: ISAKMP: APPLICATION_VERSION *May
4 00:45:02.009: ISAKMP: MODECFG-BANNER *May 4 00:45:02.009: ISAKMP: MODECFG_IPSEC_INT_CONF *May
4 00:45:02.009: ISAKMP/author: Author request for group vpngrpssuccessfully sent to AAA *May 4
00:45:02.009: ISAKMP:(1008):Input = IKE_MSG_FROM_PEER, IKE_CFG_REQUEST *May 4 00:45:02.009:
ISAKMP:(1008):Old State = IKE_P1_COMPLETE New State = IKE_CONFIG_AUTHOR_AAA_AWAIT *May 4
00:45:02.009: ISAKMP:(1008):Receive config attributes requested but config attributes not in
crypto map. Sending empty reply. *May 4 00:45:02.009: ISAKMP:(1008):attributes sent in message:
*May 4 00:45:02.009: ISAKMP: Sending APPLICATION_VERSION string: Cisco IOS Software, 7200
Software (C7200-ADVENTERPRISEK9-M), Version 12.4(4)T1, RELEASE SOFTWARE (fc4) Technical Support:
<http://www.cisco.com/techsupport> Copyright (c) 1986-2005 by Cisco Systems, Inc. Compiled Wed 21-
Dec-05 22:58 by ccai *May 4 00:45:02.009: ISAKMP: Sending IPsec Interface Config reply value 0
*May 4 00:45:02.009: ISAKMP:(1008): responding to peer config from 172.16.186.130. ID =
104696831 *May 4 00:45:02.009: ISAKMP:(1008): sending packet to 172.16.186.130 my_port 500
peer_port 500 (R) CONF_ADDR *May 4 00:45:02.009: ISAKMP:(1008):deleting node 104696831 error
FALSE reason "No Error" *May 4 00:45:02.009: ISAKMP:(1008):Input = IKE_MSG_FROM_AAA,
IKE_AAA_GROUP_ATTR *May 4 00:45:02.009: ISAKMP:(1008):Old State = IKE_CONFIG_AUTHOR_AAA_AWAIT
New State = IKE_P1_COMPLETE *May 4 00:45:02.009: ISAKMP:(1008):Input = IKE_MSG_INTERNAL,
IKE_PHASE1_COMPLETE *May 4 00:45:02.009: ISAKMP:(1008):Old State = IKE_P1_COMPLETE New State =
IKE_P1_COMPLETE *May 4 00:45:02.029: ISAKMP (0:1008): received packet from 172.16.186.130 dport
500 sport 500 Global (R) QM_IDLE *May 4 00:45:02.029: ISAKMP: set new node -1665883002 to
QM_IDLE *May 4 00:45:02.029: ISAKMP:(1008): processing HASH payload. message ID = -1665883002
*May 4 00:45:02.029: ISAKMP:(1008): processing SA payload. message ID = -1665883002 *May 4
00:45:02.029: ISAKMP:(1008):Checking IPsec proposal 1 *May 4 00:45:02.029: ISAKMP: transform 1,
ESP_AES *May 4 00:45:02.029: ISAKMP: attributes in transform: *May 4 00:45:02.029: ISAKMP:
encaps is 1 (Tunnel) *May 4 00:45:02.029: ISAKMP: SA life type in seconds *May 4 00:45:02.029:
ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B *May 4 00:45:02.029: ISAKMP: SA life type
in kilobytes *May 4 00:45:02.029: ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0 *May 4

00:45:02.029: ISAKMP: authenticator is HMAC-SHA *May 4 00:45:02.029: ISAKMP: key length is 128
*May 4 00:45:02.029: ISAKMP:(1008):atts are acceptable. *May 4 00:45:02.029:
IPSEC(validate_proposal_request): proposal part #1 *May 4 00:45:02.029:
IPSEC(validate_proposal_request): proposal part #1, (key eng. msg.) INBOUND local=
172.16.186.186, remote= 172.16.186.130, local_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), remote_proxy=
10.12.130.1/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-aes esp-sha-hmac
(Tunnel), lifedur= 0s and 0kb, spi= 0x0(0), conn_id= 0, keysize= 128, flags= 0x0 *May 4
00:45:02.029: IPSEC(crypto_ipsec_process_proposal): transform proposal not supported for
identity: {esp-aes esp-sha-hmac } *May 4 00:45:02.029: ISAKMP:(1008): IPsec policy invalidated
proposal *May 4 00:45:02.029: ISAKMP:(1008):Checking IPsec proposal 2 *May 4 00:45:02.029:
ISAKMP: transform 1, ESP_AES *May 4 00:45:02.029: ISAKMP: attributes in transform: *May 4
00:45:02.029: ISAKMP: encaps is 1 (Tunnel) *May 4 00:45:02.029: ISAKMP: SA life type in seconds
*May 4 00:45:02.029: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B *May 4 00:45:02.029:
ISAKMP: SA life type in kilobytes *May 4 00:45:02.029: ISAKMP: SA life duration (VPI) of 0x0
0x46 0x50 0x0 *May 4 00:45:02.029: ISAKMP: authenticator is HMAC-MD5 *May 4 00:45:02.029:
ISAKMP: key length is 128 *May 4 00:45:02.029: ISAKMP:(1008):atts are acceptable. *May 4
00:45:02.029: IPSEC(validate_proposal_request): proposal part #1 *May 4 00:45:02.029:
IPSEC(validate_proposal_request): proposal part #1, (key eng. msg.) INBOUND local=
172.16.186.186, remote= 172.16.186.130, local_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), remote_proxy=
10.12.130.1/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-aes esp-md5-hmac
(Tunnel), lifedur= 0s and 0kb, spi= 0x0(0), conn_id= 0, keysize= 128, flags= 0x0 *May 4
00:45:02.029: IPSEC(crypto_ipsec_process_proposal): transform proposal not supported for
identity: {esp-aes esp-md5-hmac } *May 4 00:45:02.029: ISAKMP:(1008): IPsec policy invalidated
proposal *May 4 00:45:02.029: ISAKMP:(1008):Checking IPsec proposal 3 *May 4 00:45:02.029:
ISAKMP: transform 1, ESP_AES *May 4 00:45:02.029: ISAKMP: attributes in transform: *May 4
00:45:02.029: ISAKMP: encaps is 1 (Tunnel) *May 4 00:45:02.029: ISAKMP: SA life type in seconds
*May 4 00:45:02.029: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B *May 4 00:45:02.029:
ISAKMP: SA life type in kilobytes *May 4 00:45:02.029: ISAKMP: SA life duration (VPI) of 0x0
0x46 0x50 0x0 *May 4 00:45:02.029: ISAKMP: authenticator is HMAC-SHA *May 4 00:45:02.029:
ISAKMP: key length is 192 *May 4 00:45:02.029: ISAKMP:(1008):atts are acceptable. *May 4
00:45:02.029: IPSEC(validate_proposal_request): proposal part #1 *May 4 00:45:02.029:
IPSEC(validate_proposal_request): proposal part #1, (key eng. msg.) INBOUND local=
172.16.186.186, remote= 172.16.186.130, local_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), remote_proxy=
10.12.130.1/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-aes 192 esp-sha-hmac
(Tunnel), lifedur= 0s and 0kb, spi= 0x0(0), conn_id= 0, keysize= 192, flags= 0x0 *May 4
00:45:02.029: IPSEC(crypto_ipsec_process_proposal): transform proposal not supported for
identity: {esp-aes 192 esp-sha-hmac } *May 4 00:45:02.029: ISAKMP:(1008): IPsec policy
invalidated proposal *May 4 00:45:02.029: ISAKMP:(1008):Checking IPsec proposal 4 *May 4
00:45:02.029: ISAKMP: transform 1, ESP_AES *May 4 00:45:02.029: ISAKMP: attributes in transform:
*May 4 00:45:02.029: ISAKMP: encaps is 1 (Tunnel) *May 4 00:45:02.029: ISAKMP: SA life type in
seconds *May 4 00:45:02.029: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B *May 4
00:45:02.029: ISAKMP: SA life type in kilobytes *May 4 00:45:02.029: ISAKMP: SA life duration
(VPI) of 0x0 0x46 0x50 0x0 *May 4 00:45:02.029: ISAKMP: authenticator is HMAC-MD5 *May 4
00:45:02.029: ISAKMP: key length is 192 *May 4 00:45:02.029: ISAKMP:(1008):atts are acceptable.
*May 4 00:45:02.029: IPSEC(validate_proposal_request): proposal part #1 *May 4 00:45:02.029:
IPSEC(validate_proposal_request): proposal part #1, (key eng. msg.) INBOUND local=
172.16.186.186, remote= 172.16.186.130, local_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), remote_proxy=
10.12.130.1/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-aes 192 esp-md5-hmac
(Tunnel), lifedur= 0s and 0kb, spi= 0x0(0), conn_id= 0, keysize= 192, flags= 0x0 *May 4
00:45:02.029: IPSEC(crypto_ipsec_process_proposal): transform proposal not supported for
identity: {esp-aes 192 esp-md5-hmac } *May 4 00:45:02.029: ISAKMP:(1008): IPsec policy
invalidated proposal *May 4 00:45:02.029: ISAKMP:(1008):Checking IPsec proposal 5 *May 4
00:45:02.029: ISAKMP: transform 1, ESP_AES *May 4 00:45:02.029: ISAKMP: attributes in transform:
*May 4 00:45:02.029: ISAKMP: encaps is 1 (Tunnel) *May 4 00:45:02.029: ISAKMP: SA life type in
seconds *May 4 00:45:02.029: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B *May 4
00:45:02.029: ISAKMP: SA life type in kilobytes *May 4 00:45:02.029: ISAKMP: SA life duration
(VPI) of 0x0 0x46 0x50 0x0 *May 4 00:45:02.029: ISAKMP: authenticator is HMAC-SHA *May 4
00:45:02.033: ISAKMP: key length is 256 *May 4 00:45:02.033: ISAKMP:(1008):atts are acceptable.
*May 4 00:45:02.033: IPSEC(validate_proposal_request): proposal part #1 *May 4 00:45:02.033:
IPSEC(validate_proposal_request): proposal part #1, (key eng. msg.) INBOUND local=
172.16.186.186, remote= 172.16.186.130, local_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), remote_proxy=
10.12.130.1/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-aes 256 esp-sha-hmac
(Tunnel), lifedur= 0s and 0kb, spi= 0x0(0), conn_id= 0, keysize= 256, flags= 0x0 *May 4
00:45:02.033: IPSEC(crypto_ipsec_process_proposal): transform proposal not supported for

```
identity: {esp-aes 256 esp-sha-hmac } *May 4 00:45:02.033: ISAKMP:(1008): IPsec policy
invalidated proposal *May 4 00:45:02.033: ISAKMP:(1008):Checking IPsec proposal 6 *May 4
00:45:02.033: ISAKMP: transform 1, ESP_AES *May 4 00:45:02.033: ISAKMP: attributes in transform:
*May 4 00:45:02.033: ISAKMP: encaps is 1 (Tunnel) *May 4 00:45:02.033: ISAKMP: SA life type in
seconds *May 4 00:45:02.033: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xc4 0x9B *May 4
00:45:02.033: ISAKMP: SA life type in kilobytes *May 4 00:45:02.033: ISAKMP: SA life duration
(VPI) of 0x0 0x46 0x50 0x0 *May 4 00:45:02.033: ISAKMP: authenticator is HMAC-MD5 *May 4
00:45:02.033: ISAKMP: key length is 256 *May 4 00:45:02.033: ISAKMP:(1008):atts are acceptable.
*May 4 00:45:02.033: IPSEC(validate_proposal_request): proposal part #1 *May 4 00:45:02.033:
IPSEC(validate_proposal_request): proposal part #1, (key eng. msg.) INBOUND local=
172.16.186.186, remote= 172.16.186.130, local_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), remote_proxy=
10.12.130.1/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-aes 256 esp-md5-hmac
(Tunnel), lifedur= 0s and 0kb, spi= 0x0(0), conn_id= 0, keysize= 256, flags= 0x0 *May 4
00:45:02.033: IPSEC(crypto_ipsec_process_proposal): transform proposal not supported for
identity: {esp-aes 256 esp-md5-hmac } *May 4 00:45:02.033: ISAKMP:(1008): IPsec policy
invalidated proposal *May 4 00:45:02.033: ISAKMP:(1008):Checking IPsec proposal 7 *May 4
00:45:02.033: ISAKMP: transform 1, ESP_3DES *May 4 00:45:02.033: ISAKMP: attributes in
transform: *May 4 00:45:02.033: ISAKMP: encaps is 1 (Tunnel) *May 4 00:45:02.033: ISAKMP: SA
life type in seconds *May 4 00:45:02.033: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xc4 0x9B
*May 4 00:45:02.033: ISAKMP: SA life type in kilobytes *May 4 00:45:02.033: ISAKMP: SA life
duration (VPI) of 0x0 0x46 0x50 0x0 *May 4 00:45:02.033: ISAKMP: authenticator is HMAC-SHA *May
4 00:45:02.033: ISAKMP:(1008):atts are acceptable. *May 4 00:45:02.033:
IPSEC(validate_proposal_request): proposal part #1 *May 4 00:45:02.033:
IPSEC(validate_proposal_request): proposal part #1, (key eng. msg.) INBOUND local=
172.16.186.186, remote= 172.16.186.130, local_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), remote_proxy=
10.12.130.1/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-3des esp-sha-hmac
(Tunnel), lifedur= 0s and 0kb, spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x0 *May 4
00:45:02.033: ISAKMP:(1008): processing NONCE payload. message ID = -1665883002 *May 4
00:45:02.033: ISAKMP:(1008): processing ID payload. message ID = -1665883002 *May 4
00:45:02.033: ISAKMP:(1008): processing ID payload. message ID = -1665883002 *May 4
00:45:02.033: ISAKMP:(1008): asking for 1 spis from ipsec *May 4 00:45:02.033:
ISAKMP:(1008):Node -1665883002, Input = IKE_MSG_FROM_PEER, IKE_QM_EXCH *May 4 00:45:02.033:
ISAKMP:(1008):Old State = IKE_QM_READY New State = IKE_QM_SPI_STARVE *May 4 00:45:02.033:
IPSEC(key_engine): got a queue event with 1 KMI message(s) *May 4 00:45:02.033:
IPSEC(spi_response): getting spi 1752561220 for SA from 172.16.186.186 to 172.16.186.130 for
prot 3 *May 4 00:45:02.033: ISAKMP:(1008): Creating IPsec SAs *May 4 00:45:02.033: inbound SA
from 172.16.186.130 to 172.16.186.186 (f/i) 0/ 0 (proxy 10.12.130.1 to 0.0.0.0) *May 4
00:45:02.033: has spi 0x6875F644 and conn_id 0 *May 4 00:45:02.033: lifetime of 2147483 seconds
*May 4 00:45:02.033: lifetime of 4608000 kilobytes *May 4 00:45:02.033: outbound SA from
172.16.186.186 to 172.16.186.130 (f/i) 0/0 (proxy 0.0.0.0 to 10.12.130.1) *May 4 00:45:02.033:
has spi 0x29354010 and conn_id 0 *May 4 00:45:02.033: lifetime of 2147483 seconds *May 4
00:45:02.033: lifetime of 4608000 kilobytes *May 4 00:45:02.033: ISAKMP:(1008): sending packet
to 172.16.186.130 my_port 500 peer_port 500 (R) QM_IDLE *May 4 00:45:02.033: ISAKMP:(1008):Node
-1665883002, Input = IKE_MSG_FROM_IPSEC, IKE_SPI_REPLY *May 4 00:45:02.033: ISAKMP:(1008):Old
State = IKE_QM_SPI_STARVE New State = IKE_QM_R_QM2 *May 4 00:45:02.033: IPSEC(key_engine): got a
queue event with 1 KMI message(s) *May 4 00:45:02.033: IPsec: Flow_switching Allocated flow for
sibling 80000007 *May 4 00:45:02.033: IPSEC(policy_db_add_ident): src 0.0.0.0, dest 10.12.130.1,
dest_port 0 *May 4 00:45:02.033: IPSEC(create_sa): sa created, (sa) sa_dest= 172.16.186.186,
sa_proto= 50, sa_spi= 0x6875F644(1752561220), sa_trans= esp-3des esp-sha-hmac , sa_conn_id= 11
*May 4 00:45:02.033: IPSEC(create_sa): sa created, (sa) sa_dest= 172.16.186.130, sa_proto= 50,
sa_spi= 0x29354010(691355664), sa_trans= esp-3des esp-sha-hmac , sa_conn_id= 12 *May 4
00:45:02.045: ISAKMP (0:1008): received packet from 172.16.186.130 dport 500 sport 500 Global
(R) QM_IDLE *May 4 00:45:02.045: ISAKMP:(1008):deleting node -1665883002 error FALSE reason "QM
done (await)" *May 4 00:45:02.045: ISAKMP:(1008):Node -1665883002, Input = IKE_MSG_FROM_PEER,
IKE_QM_EXCH *May 4 00:45:02.045: ISAKMP:(1008):Old State = IKE_QM_R_QM2 New State =
IKE_QM_PHASE2_COMPLETE *May 4 00:45:02.045: IPSEC(key_engine): got a queue event with 1 KMI
message(s) *May 4 00:45:02.045: IPSEC(key_engine_enable_outbound): rec'd enable notify from
ISAKMP *May 4 00:45:02.045: IPSEC(key_engine_enable_outbound): enable SA with spi 691355664/50
```

Easy VPN Remote 명령

- debug crypto ipsec - 2단계의 IPsec 협상을 표시합니다.
- debug crypto isakmp - 1단계의 ISAKMP 협상을 표시합니다.


```
3-03-06-871W#debug crypto ipsec3-03-06-871W#debug crypto isakmp
*Jun 3 05:59:27.431: ISAKMP:(0): beginning Aggressive Mode exchange
*Jun 3 05:59:27.431: ISAKMP:(0): sending packet to 172.16.186.186 my_port
    500 peer_port 500 (I) AG_INIT_EXCH
*Jun 3 05:59:27.455: ISAKMP (0:0): received packet from 172.16.186.186 dport
    500 sport 500 Global (I) AG_INIT_EXCH
*Jun 3 05:59:27.455: ISAKMP:(0): processing SA payload. message ID = 0
*Jun 3 05:59:27.455: ISAKMP:(0): processing ID payload. message ID = 0
*Jun 3 05:59:27.455: ISAKMP (0:0): ID payload
    next-payload : 10
    type          : 1
    address       : 172.16.186.186
    protocol      : 17
    port          : 0
    length       : 12
*Jun 3 05:59:27.455: ISAKMP:(0):: peer matches *none* of the profiles
*Jun 3 05:59:27.455: ISAKMP:(0): processing vendor id payload
*Jun 3 05:59:27.455: ISAKMP:(0): vendor ID is Unity
*Jun 3 05:59:27.455: ISAKMP:(0): processing vendor id payload
*Jun 3 05:59:27.455: ISAKMP:(0): vendor ID is DPD
*Jun 3 05:59:27.455: ISAKMP:(0): processing vendor id payload
*Jun 3 05:59:27.455: ISAKMP:(0): speaking to another IOS box!
*Jun 3 05:59:27.455: ISAKMP:(0): local preshared key found
*Jun 3 05:59:27.455: ISAKMP : Scanning profiles for xauth ...
*Jun 3 05:59:27.455: ISAKMP:(0): Authentication by xauth preshared
*Jun 3 05:59:27.455: ISAKMP:(0):Checking ISAKMP transform 1 against priority 65515 policy
*Jun 3 05:59:27.455: ISAKMP:
    encryption 3DES-CBC
*Jun 3 05:59:27.455: ISAKMP:
    hash SHA
*Jun 3 05:59:27.455: ISAKMP:
    default group 2
*Jun 3 05:59:27.459: ISAKMP:
    auth XAUTHInitPreShared
*Jun 3 05:59:27.459: ISAKMP:
    life type in seconds
*Jun 3 05:59:27.459: ISAKMP:
    life duration (VPI) of 0x0 0x20 0xC4 0x9B
*Jun 3 05:59:27.459: ISAKMP:(0):Encryption algorithm offered does not match policy!
*Jun 3 05:59:27.459: ISAKMP:(0):atts are not acceptable. Next payload is 0
*Jun 3 05:59:27.459: ISAKMP:(0):Checking ISAKMP transform 1 against priority 65516 policy
*Jun 3 05:59:27.459: ISAKMP:
    encryption 3DES-CBC
*Jun 3 05:59:27.459: ISAKMP:
    hash SHA
*Jun 3 05:59:27.459: ISAKMP:
    default group 2
*Jun 3 05:59:27.459: ISAKMP:
    auth XAUTHInitPreShared
*Jun 3 05:59:27.459: ISAKMP:
    life type in seconds
*Jun 3 05:59:27.459: ISAKMP:
    life duration (VPI) of 0x0 0x20 0xC4 0x9B
*Jun 3 05:59:27.459: ISAKMP:(0):Encryption algorithm offered does not match policy!
*Jun 3 05:59:27.459: ISAKMP:(0):atts are not acceptable. Next payload is 0
*Jun 3 05:59:27.459: ISAKMP:(0):Checking ISAKMP transform 1 against priority 65517 policy
*Jun 3 05:59:27.459: ISAKMP:
    encryption 3DES-CBC
*Jun 3 05:59:27.459: ISAKMP:
    hash SHA
*Jun 3 05:59:27.459: ISAKMP:
    default group 2
*Jun 3 05:59:27.459: ISAKMP:
    auth XAUTHInitPreShared
*Jun 3 05:59:27.459: ISAKMP:
    life type in seconds
*Jun 3 05:59:27.459: ISAKMP:
    life duration (VPI) of 0x0 0x20 0xC4 0x9B
*Jun 3 05:59:27.459: ISAKMP:(0):Encryption algorithm offered does not match policy!
*Jun 3 05:59:27.459: ISAKMP:(0):atts are not acceptable. Next payload is 0
*Jun 3 05:59:27.459: ISAKMP:(0):Checking ISAKMP transform 1 against priority 65518 policy
*Jun 3 05:59:27.459: ISAKMP:
    encryption 3DES-CBC
*Jun 3 05:59:27.459: ISAKMP:
    hash SHA
*Jun 3 05:59:27.459: ISAKMP:
    default group 2
*Jun 3 05:59:27.459: ISAKMP:
    auth XAUTHInitPreShared
*Jun 3 05:59:27.459: ISAKMP:
    life type in seconds
*Jun 3 05:59:27.459: ISAKMP:
    life duration (VPI) of 0x0 0x20 0xC4 0x9B
*Jun 3 05:59:27.459: ISAKMP:(0):Encryption algorithm offered does not match policy!
*Jun 3 05:59:27.459: ISAKMP:(0):atts are not acceptable. Next payload is 0
*Jun 3 05:59:27.459: ISAKMP:(0):Checking ISAKMP transform 1 against priority 65519 policy
```

*Jun 3 05:59:27.459: ISAKMP: encryption 3DES-CBC
*Jun 3 05:59:27.459: ISAKMP: hash SHA
*Jun 3 05:59:27.459: ISAKMP: default group 2
*Jun 3 05:59:27.459: ISAKMP: auth XAUTHInitPreShared
*Jun 3 05:59:27.459: ISAKMP: life type in seconds
*Jun 3 05:59:27.463: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B
*Jun 3 05:59:27.463: ISAKMP:(0):Encryption algorithm offered does not match policy!
*Jun 3 05:59:27.463: ISAKMP:(0):atts are not acceptable. Next payload is 0
*Jun 3 05:59:27.463: ISAKMP:(0):Checking ISAKMP transform 1 against priority 65520 policy
*Jun 3 05:59:27.463: ISAKMP: encryption 3DES-CBC
*Jun 3 05:59:27.463: ISAKMP: hash SHA
*Jun 3 05:59:27.463: ISAKMP: default group 2
*Jun 3 05:59:27.463: ISAKMP: auth XAUTHInitPreShared
*Jun 3 05:59:27.463: ISAKMP: life type in seconds
*Jun 3 05:59:27.463: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B
*Jun 3 05:59:27.463: ISAKMP:(0):Encryption algorithm offered does not match policy!
*Jun 3 05:59:27.463: ISAKMP:(0):atts are not acceptable. Next payload is 0
*Jun 3 05:59:27.463: ISAKMP:(0):Checking ISAKMP transform 1 against priority 65521 policy
*Jun 3 05:59:27.463: ISAKMP: encryption 3DES-CBC
*Jun 3 05:59:27.463: ISAKMP: hash SHA
*Jun 3 05:59:27.463: ISAKMP: default group 2
*Jun 3 05:59:27.463: ISAKMP: auth XAUTHInitPreShared
*Jun 3 05:59:27.463: ISAKMP: life type in seconds
*Jun 3 05:59:27.463: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B
*Jun 3 05:59:27.463: ISAKMP:(0):Encryption algorithm offered does not match policy!
*Jun 3 05:59:27.463: ISAKMP:(0):atts are not acceptable. Next payload is 0
*Jun 3 05:59:27.463: ISAKMP:(0):Checking ISAKMP transform 1 against priority 65522 policy
*Jun 3 05:59:27.463: ISAKMP: encryption 3DES-CBC
*Jun 3 05:59:27.463: ISAKMP: hash SHA
*Jun 3 05:59:27.463: ISAKMP: default group 2
*Jun 3 05:59:27.463: ISAKMP: auth XAUTHInitPreShared
*Jun 3 05:59:27.463: ISAKMP: life type in seconds
*Jun 3 05:59:27.463: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B
*Jun 3 05:59:27.463: ISAKMP:(0):Encryption algorithm offered does not match policy!
*Jun 3 05:59:27.463: ISAKMP:(0):atts are not acceptable. Next payload is 0
*Jun 3 05:59:27.463: ISAKMP:(0):Checking ISAKMP transform 1 against priority 65523 policy
*Jun 3 05:59:27.463: ISAKMP: encryption 3DES-CBC
*Jun 3 05:59:27.463: ISAKMP: hash SHA
*Jun 3 05:59:27.463: ISAKMP: default group 2
*Jun 3 05:59:27.463: ISAKMP: auth XAUTHInitPreShared
*Jun 3 05:59:27.463: ISAKMP: life type in seconds
*Jun 3 05:59:27.463: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B
*Jun 3 05:59:27.463: ISAKMP:(0):Encryption algorithm offered does not match policy!
*Jun 3 05:59:27.463: ISAKMP:(0):atts are not acceptable. Next payload is 0
*Jun 3 05:59:27.463: ISAKMP:(0):Checking ISAKMP transform 1 against priority 65524 policy
*Jun 3 05:59:27.467: ISAKMP: encryption 3DES-CBC
*Jun 3 05:59:27.467: ISAKMP: hash SHA
*Jun 3 05:59:27.467: ISAKMP: default group 2
*Jun 3 05:59:27.467: ISAKMP: auth XAUTHInitPreShared
*Jun 3 05:59:27.467: ISAKMP: life type in seconds
*Jun 3 05:59:27.467: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B
*Jun 3 05:59:27.467: ISAKMP:(0):Encryption algorithm offered does not match policy!
*Jun 3 05:59:27.467: ISAKMP:(0):atts are not acceptable. Next payload is 0
*Jun 3 05:59:27.467: ISAKMP:(0):Checking ISAKMP transform 1 against priority 65525 policy
*Jun 3 05:59:27.467: ISAKMP: encryption 3DES-CBC
*Jun 3 05:59:27.467: ISAKMP: hash SHA
*Jun 3 05:59:27.467: ISAKMP: default group 2
*Jun 3 05:59:27.467: ISAKMP: auth XAUTHInitPreShared
*Jun 3 05:59:27.467: ISAKMP: life type in seconds
*Jun 3 05:59:27.467: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B
*Jun 3 05:59:27.467: ISAKMP:(0):Encryption algorithm offered does not match policy!
*Jun 3 05:59:27.467: ISAKMP:(0):atts are not acceptable. Next payload is 0
*Jun 3 05:59:27.467: ISAKMP:(0):Checking ISAKMP transform 1 against priority 65526 policy
*Jun 3 05:59:27.467: ISAKMP: encryption 3DES-CBC

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*Jun 3 05:59:27.467: ISAKMP:      hash SHA
*Jun 3 05:59:27.467: ISAKMP:      default group 2
*Jun 3 05:59:27.467: ISAKMP:      auth XAUTHInitPreShared
*Jun 3 05:59:27.467: ISAKMP:      life type in seconds
*Jun 3 05:59:27.467: ISAKMP:      life duration (VPI) of  0x0 0x20 0xC4 0x9B
*Jun 3 05:59:27.467: ISAKMP:(0):Encryption algorithm offered does not match policy!
*Jun 3 05:59:27.467: ISAKMP:(0):atts are not acceptable. Next payload is 0
*Jun 3 05:59:27.467: ISAKMP:(0):Checking ISAKMP transform 1 against priority 65527 policy
*Jun 3 05:59:27.467: ISAKMP:      encryption 3DES-CBC
*Jun 3 05:59:27.467: ISAKMP:      hash SHA
*Jun 3 05:59:27.467: ISAKMP:      default group 2
*Jun 3 05:59:27.467: ISAKMP:      auth XAUTHInitPreShared
*Jun 3 05:59:27.467: ISAKMP:      life type in seconds
*Jun 3 05:59:27.467: ISAKMP:      life duration (VPI) of  0x0 0x20 0xC4 0x9B
*Jun 3 05:59:27.467: ISAKMP:(0):atts are acceptable. Next payload is 0
*Jun 3 05:59:27.467: ISAKMP (0:0): vendor ID is NAT-T v7
*Jun 3 05:59:27.467: ISAKMP:(0): processing KE payload. message ID = 0
*Jun 3 05:59:27.475: ISAKMP:(0): processing NONCE payload. message ID = 0
*Jun 3 05:59:27.475: ISAKMP:(2006): processing HASH payload. message ID = 0
*Jun 3 05:59:27.475: ISAKMP:(2006):SA authentication status:
    authenticated
*Jun 3 05:59:27.475: ISAKMP:(2006):SA has been authenticated with 172.16.186.186

*Jun 3 05:59:27.475: ISAKMP:(2006):Send initial contact
*Jun 3 05:59:27.475: ISAKMP:(2006): sending packet to 172.16.186.186
    my_port 500 peer_port 500 (I) AG_INIT_EXCH
*Jun 3 05:59:27.479: ISAKMP:(2006):Input = IKE_MSG_FROM_PEER, IKE_AM_EXCH
*Jun 3 05:59:27.479: ISAKMP:(2006):Old State = IKE_I_AM1  New State = IKE_P1_COMPLETE

*Jun 3 05:59:27.479: ISAKMP:(2006):Need XAUTH
*Jun 3 05:59:27.479: ISAKMP:(2006):Input = IKE_MSG_INTERNAL, IKE_PHASE1_COMPLETE

!--- Phase 1 (ISAKMP) is complete. *Jun 3 05:59:27.479: ISAKMP:(2006):Old State =
IKE_P1_COMPLETE New State = IKE_P1_COMPLETE !--- Xauth initiates. *Jun 3 05:59:27.479: ISAKMP
(0:2006): received packet from 172.16.186.186 dport 500 sport 500 Global (I) CONF_XAUTH *Jun 3
05:59:27.483: ISAKMP: set new node 850198625 to CONF_XAUTH *Jun 3 05:59:27.487:
ISAKMP:(2006):processing transaction payload from 172.16.186.186. message ID = -1517216966 *Jun
3 05:59:27.487: ISAKMP: Config payload REQUEST *Jun 3 05:59:27.487: ISAKMP:(2006):checking
request: *Jun 3 05:59:27.487: ISAKMP: XAUTH_USER_NAME_V2 *Jun 3 05:59:27.487: ISAKMP:
XAUTH_USER_PASSWORD_V2 *Jun 3 05:59:27.487: ISAKMP:(2006):Xauth process request *Jun 3
05:59:27.487: ISAKMP:(2006):Input = IKE_MSG_FROM_PEER, IKE_CFG_REQUEST *Jun 3 05:59:27.487:
ISAKMP:(2006):Old State = IKE_P1_COMPLETE New State = IKE_XAUTH_REPLY_AWAIT *Jun 3 05:59:30.242:
EZVPN(ez): Pending XAuth Request, Please enter the following command: *Jun 3 05:59:30.242:
EZVPN: crypto ipsec client ezvpn xauth !--- Enter the crypto ipsec client ezvpn xauth command.

```

3-03-06-871W#crypto ipsec client ezvpn xauth

Username: cisco
Password:

```

*Jun 3 06:02:46.498:      username: cisco
*Jun 3 06:02:46.498:      password: <omitted>
*Jun 3 06:02:46.498: ISAKMP:(2008): responding to peer config from
    172.16.186.186. ID = -605466681
*Jun 3 06:02:46.498: ISAKMP:(2008): sending packet to 172.16.186.186 my_port
    500 peer_port 500 (I) CONF_XAUTH
*Jun 3 06:02:46.498: ISAKMP:(2008):deleting node -605466681 error FALSE reason
    "Done with xauth request/reply exchange"
*Jun 3 06:02:46.498: ISAKMP:(2008):Input = IKE_MSG_INTERNAL, IKE_XAUTH_REPLY_ATTR

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*Jun 3 06:02:46.498: ISAKMP:(2008):Old State = IKE_XAUTH_REPLY_AWAIT New State =
IKE_XAUTH_REPLY_SENT

*Jun 3 06:02:46.502: ISAKMP (0:2008): received packet from 172.16.186.186 dport
500 sport 500 Global (I) CONF_XAUTH
*Jun 3 06:02:46.502: ISAKMP: set new node 1283697340 to CONF_XAUTH
*Jun 3 06:02:46.502: ISAKMP:(2008):processing transaction payload from
172.16.186.186. message ID = 1283697340
*Jun 3 06:02:46.502: ISAKMP: Config payload SET
*Jun 3 06:02:46.502: ISAKMP:(2008):Xauth process set, status = 1
*Jun 3 06:02:46.502: ISAKMP:(2008):checking SET:
*Jun 3 06:02:46.502: ISAKMP: XAUTH_STATUS_V2 XAUTH-OK
*Jun 3 06:02:46.502: ISAKMP:(2008):attributes sent in message:
*Jun 3 06:02:46.502: Status: 1
*Jun 3 06:02:46.506: ISAKMP:(2008): sending packet to 172.16.186.186
my_port 500 peer_port 500 (I) CONF_XAUTH
*Jun 3 06:02:46.506: ISAKMP:(2008):deleting node 1283697340 error FALSE
reason "No Error"
*Jun 3 06:02:46.506: ISAKMP:(2008):Input = IKE_MSG_FROM_PEER, IKE_CFG_SET
*Jun 3 06:02:46.506: ISAKMP:(2008):Old State = IKE_XAUTH_REPLY_SENT
New State = IKE_P1_COMPLETE

*Jun 3 06:02:46.506: ISAKMP:(2008):Need config/address
*Jun 3 06:02:46.506: ISAKMP: set new node 104696831 to CONF_ADDR
*Jun 3 06:02:46.506: ISAKMP: Sending APPLICATION_VERSION string: Cisco IOS
Software, C870 Software (C870-ADVIPSERVICESK9-M),
Experimental Version 12.4(20060201:210845)
[prchadal-CSCsb79792-haw_t_pi4 101]

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Compiled Thu 02-Feb-06 03:19 by prchadal
*Jun 3 06:02:46.506: ISAKMP:(2008): initiating peer config to 172.16.186.186.
ID = 104696831
*Jun 3 06:02:46.506: ISAKMP:(2008): sending packet to 172.16.186.186 my_port
500 peer_port 500 (I) CONF_ADDR
*Jun 3 06:02:46.506: ISAKMP:(2008):Input = IKE_MSG_INTERNAL, IKE_PHASE1_COMPLETE
*Jun 3 06:02:46.506: ISAKMP:(2008):Old State = IKE_P1_COMPLETE New State =
IKE_CONFIG_MODE_REQ_SENT

*Jun 3 06:02:46.510: ISAKMP (0:2008): received packet from 172.16.186.186 dport
500 sport 500 Global (I) CONF_ADDR
*Jun 3 06:02:46.514: ISAKMP:(2008):processing transaction payload from
172.16.186.186. message ID = 104696831
*Jun 3 06:02:46.514: ISAKMP: Config payload REPLY
*Jun 3 06:02:46.514: ISAKMP(0:2008) process config reply
*Jun 3 06:02:46.514: ISAKMP:(2008):deleting node 104696831 error
FALSE reason "Transaction mode done"
*Jun 3 06:02:46.514: ISAKMP:(2008):Input = IKE_MSG_FROM_PEER, IKE_CFG_REPLY
*Jun 3 06:02:46.514: ISAKMP:(2008):Old State = IKE_CONFIG_MODE_REQ_SENT
New State = IKE_P1_COMPLETE

*Jun 3 06:02:46.518: insert of map into mapdb AVL failed, map + ace pair
already exists on the mapdb
*Jun 3 06:02:46.518: ISAKMP:(2008):Input = IKE_MSG_INTERNAL, IKE_PHASE1_COMPLETE
*Jun 3 06:02:46.518: ISAKMP:(2008):Old State = IKE_P1_COMPLETE New State =
IKE_P1_COMPLETE

*Jun 3 06:02:46.522: IPSEC(sa_request): ,
(key eng. msg.) OUTBOUND local= 172.16.186.130, remote= 172.16.186.186,
local_proxy= 10.12.130.1/255.255.255.255/0/0 (type=1),
remote_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4),
protocol= ESP, transform= NONE (Tunnel),
lifedur= 2147483s and 4608000kb,
spi= 0xA0FC0985(2700872069), conn_id= 0, keysize= 128, flags= 0x2000
*Jun 3 06:02:46.522: IPSEC(sa_request): ,

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(key eng. msg.) OUTBOUND local= 172.16.186.130, remote= 172.16.186.186,
  local_proxy= 10.12.130.1/255.255.255.255/0/0 (type=1),
  remote_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4),
  protocol= ESP, transform= NONE (Tunnel),
  lifedur= 2147483s and 4608000kb,
  spi= 0xBB426C9(196355785), conn_id= 0, keysize= 128, flags= 0x2000
*Jun  3 06:02:46.522: IPSEC(sa_request): ,
(key eng. msg.) OUTBOUND local= 172.16.186.130, remote= 172.16.186.186,
  local_proxy= 10.12.130.1/255.255.255.255/0/0 (type=1),
  remote_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4),
  protocol= ESP, transform= NONE (Tunnel),
  lifedur= 2147483s and 4608000kb,
  spi= 0xB349BB06(3007953670), conn_id= 0, keysize= 192, flags= 0x2000
*Jun  3 06:02:46.522: IPSEC(sa_request): ,
(key eng. msg.) OUTBOUND local= 172.16.186.130, remote= 172.16.186.186,
  local_proxy= 10.12.130.1/255.255.255.255/0/0 (type=1),
  remote_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4),
  protocol= ESP, transform= NONE (Tunnel),
  lifedur= 2147483s and 4608000kb,
  spi= 0xC114CFB8(3239366584), conn_id= 0, keysize= 192, flags= 0x2000
*Jun  3 06:02:46.522: IPSEC(sa_request): ,
(key eng. msg.) OUTBOUND local= 172.16.186.130, remote= 172.16.186.186,
  local_proxy= 10.12.130.1/255.255.255.255/0/0 (type=1),
  remote_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4),
  protocol= ESP, transform= NONE (Tunnel),
  lifedur= 2147483s and 4608000kb,
  spi= 0x2ED87C62(785939554), conn_id= 0, keysize= 256, flags= 0x2000
*Jun  3 06:02:46.522: IPSEC(sa_request): ,
(key eng. msg.) OUTBOUND local= 172.16.186.130, remote= 172.16.186.186,
  local_proxy= 10.12.130.1/255.255.255.255/0/0 (type=1),
  remote_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4),
  protocol= ESP, transform= NONE (Tunnel),
  lifedur= 2147483s and 4608000kb,
  spi= 0x226A6FF3(577400819), conn_id= 0, keysize= 256, flags= 0x2000
*Jun  3 06:02:46.522: IPSEC(sa_request): ,
(key eng. msg.) OUTBOUND local= 172.16.186.130, remote= 172.16.186.186,
  local_proxy= 10.12.130.1/255.255.255.255/0/0 (type=1),
  remote_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4),
  protocol= ESP, transform= NONE (Tunnel),
  lifedur= 2147483s and 4608000kb,
  spi= 0x29354010(691355664), conn_id= 0, keysize= 0, flags= 0x2000
*Jun  3 06:02:46.526: IPSEC(sa_request): ,
(key eng. msg.) OUTBOUND local= 172.16.186.130, remote= 172.16.186.186,
  local_proxy= 10.12.130.1/255.255.255.255/0/0 (type=1),
  remote_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4),
  protocol= ESP, transform= NONE (Tunnel),
  lifedur= 2147483s and 4608000kb,
  spi= 0x12111E5C(303111772), conn_id= 0, keysize= 0, flags= 0x2000
*Jun  3 06:02:46.526: IPSEC(sa_request): ,
(key eng. msg.) OUTBOUND local= 172.16.186.130, remote= 172.16.186.186,
  local_proxy= 10.12.130.1/255.255.255.255/0/0 (type=1),
  remote_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4),
  protocol= ESP, transform= NONE (Tunnel),
  lifedur= 2147483s and 4608000kb,
  spi= 0x98084B9A(2550680474), conn_id= 0, keysize= 0, flags= 0x2000
*Jun  3 06:02:46.526: IPSEC(sa_request): ,
(key eng. msg.) OUTBOUND local= 172.16.186.130, remote= 172.16.186.186,
  local_proxy= 10.12.130.1/255.255.255.255/0/0 (type=1),
  remote_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4),
  protocol= ESP, transform= NONE (Tunnel),
  lifedur= 2147483s and 4608000kb,
  spi= 0x9442501B(2487373851), conn_id= 0, keysize= 0, flags= 0x0
*Jun  3 06:02:46.526: ISAKMP: set new node 0 to QM_IDLE
*Jun  3 06:02:46.526: ISAKMP:(2008): sitting IDLE. Starting QM immediately (QM_IDLE)
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*Jun 3 06:02:46.526: ISAKMP:(2008):beginning Quick Mode exchange, M-ID of -1665883002
*Jun 3 06:02:46.526: ISAKMP:(2008):QM Initiator gets spi
*Jun 3 06:02:46.530: ISAKMP:(2008): sending packet to 172.16.186.186 my_port
                    500 peer_port 500 (I) QM_IDLE
*Jun 3 06:02:46.530: ISAKMP:(2008):Node -1665883002, Input = IKE_MESG_INTERNAL,
                    IKE_INIT_QM
*Jun 3 06:02:46.530: ISAKMP:(2008):Old State = IKE_QM_READY New State = IKE_QM_I_QM1
*Jun 3 06:02:46.538: ISAKMP (0:2008): received packet from 172.16.186.186
                    dport 500 sport 500 Global (I) QM_IDLE
*Jun 3 06:02:46.538: ISAKMP:(2008): processing HASH payload. message ID = -1665883002
*Jun 3 06:02:46.538: ISAKMP:(2008): processing SA payload. message ID = -1665883002
*Jun 3 06:02:46.538: ISAKMP:(2008):Checking IPsec proposal 1
*Jun 3 06:02:46.538: ISAKMP: transform 1, ESP_3DES
*Jun 3 06:02:46.538: ISAKMP:   attributes in transform:
*Jun 3 06:02:46.538: ISAKMP:     encaps is 1 (Tunnel)
*Jun 3 06:02:46.538: ISAKMP:     SA life type in seconds
*Jun 3 06:02:46.538: ISAKMP:     SA life duration (VPI) of  0x0 0x20 0xC4 0x9B
*Jun 3 06:02:46.538: ISAKMP:     SA life type in kilobytes
*Jun 3 06:02:46.538: ISAKMP:     SA life duration (VPI) of  0x0 0x46 0x50 0x0
*Jun 3 06:02:46.542: ISAKMP:     authenticator is HMAC-SHA
*Jun 3 06:02:46.542: ISAKMP:(2008):atts are acceptable.
*Jun 3 06:02:46.542: IPSEC(validate_proposal_request): proposal part #1
*Jun 3 06:02:46.542: IPSEC(validate_proposal_request): proposal part #1,
(key eng. msg.) INBOUND local= 172.16.186.130, remote= 172.16.186.186,
local_proxy= 10.12.130.1/255.255.255.255/0/0 (type=1),
remote_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4),
protocol= ESP, transform= esp-3des esp-sha-hmac (Tunnel),
lifedur= 0s and 0kb,
spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x0
*Jun 3 06:02:46.542: Crypto mapdb : proxy_match
src addr      : 10.12.130.1
dst addr      : 0.0.0.0
protocol      : 0
src port      : 0
dst port      : 0
*Jun 3 06:02:46.542: ISAKMP:(2008): processing NONCE payload. message ID = -1665883002
*Jun 3 06:02:46.542: ISAKMP:(2008): processing ID payload. message ID = -1665883002
*Jun 3 06:02:46.542: ISAKMP:(2008): processing ID payload. message ID = -1665883002
*Jun 3 06:02:46.542: ISAKMP:(2008): processing NOTIFY RESPONDER_LIFETIME protocol 3
spi 1752561220, message ID = -1665883002, sa = 83BCC9DC
*Jun 3 06:02:46.542: ISAKMP:(2008):SA authentication status:
authenticated
*Jun 3 06:02:46.542: ISAKMP:(2008): processing responder lifetime
*Jun 3 06:02:46.542: ISAKMP (2008): responder lifetime of 3600s
*Jun 3 06:02:46.542: ISAKMP:(2008): Creating IPsec SAs
*Jun 3 06:02:46.542:   inbound SA from 172.16.186.186 to 172.16.186.130 (f/i) 0/ 0
(proxy 0.0.0.0 to 10.12.130.1)
*Jun 3 06:02:46.542:   has spi 0x29354010 and conn_id 0
*Jun 3 06:02:46.542:   lifetime of 3590 seconds
*Jun 3 06:02:46.542:   lifetime of 4608000 kilobytes
*Jun 3 06:02:46.546:   outbound SA from 172.16.186.130 to 172.16.186.186 (f/i) 0/0
(proxy 10.12.130.1 to 0.0.0.0)
*Jun 3 06:02:46.546:   has spi 0x6875F644 and conn_id 0
*Jun 3 06:02:46.546:   lifetime of 3590 seconds
*Jun 3 06:02:46.546:   lifetime of 4608000 kilobytes
*Jun 3 06:02:46.546: ISAKMP:(2008): sending packet to 172.16.186.186
my_port 500 peer_port 500 (I) QM_IDLE
*Jun 3 06:02:46.546: ISAKMP:(2008):deleting node -1665883002 error FALSE
reason "No Error"
*Jun 3 06:02:46.546: ISAKMP:(2008):Node -1665883002, Input = IKE_MESG_FROM_PEER,
                    IKE_QM_EXCH
*Jun 3 06:02:46.546: ISAKMP:(2008):Old State = IKE_QM_I_QM1 New State =
                    IKE_QM_PHASE2_COMPLETE
*Jun 3 06:02:46.546: IPSEC(key_engine): got a queue event with 1 KMI message(s)
```

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*Jun 3 06:02:46.546: Crypto mapdb : proxy_match
src addr      : 10.12.130.1
dst addr      : 0.0.0.0
protocol      : 0
src port      : 0
dst port      : 0
*Jun 3 06:02:46.546: IPSEC(crypto_ipsec_sa_find_ident_head): reconnecting with
the same proxies and peer 172.16.186.186
*Jun 3 06:02:46.546: IPSEC(policy_db_add_ident): src 10.12.130.1, dest 0.0.0.0,
dest_port 0

*Jun 3 06:02:46.546: IPSEC(create_sa): sa created,
(sa) sa_dest= 172.16.186.130, sa_proto= 50,
sa_spi= 0x29354010(691355664),
sa_trans= esp-3des esp-sha-hmac , sa_conn_id= 11
*Jun 3 06:02:46.546: IPSEC(create_sa): sa created,
(sa) sa_dest= 172.16.186.186, sa_proto= 50,
sa_spi= 0x6875F644(1752561220),
sa_trans= esp-3des esp-sha-hmac , sa_conn_id= 12
*Jun 3 06:02:46.550: IPSEC(update_current_outbound_sa):
updated peer 172.16.186.186 current outbound sa to SPI 6875F644
*Jun 3 06:02:46.550: %CRYPTO-6-EZVPN_CONNECTION_UP: (Client)
User= Group=vpngrp Client_public_addr=172.16.186.130
Server_public_addr=172.16.186.186 NEM_Remote_Subnets=10.12.130.1/255.255.255.255
*Jun 3 06:02:47.130: ISAKMP: set new node -1866551769 to QM_IDLE
```

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- [Cisco Easy VPN 제품 지원](#)
- [IOS 라우터: 스플릿 터널링 컨피그레이션이 포함된 NEM\(Network-Extension Mode\)의 Easy VPN\(EzVPN\) 예](#)
- [Cisco VPN 클라이언트](#)
- [IPSec 협상/IKE 프로토콜](#)
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