

# 로컬 확장 인증을 사용하여 Windows용 Cisco VPN Client 3.x를 IOS로 구성

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## 소개

이 문서에서는 로컬 확장 인증을 사용하는 라우터와 Cisco VPN 클라이언트 간의 연결을 구성하는 방법을 보여 줍니다. Cisco IOS® Software 릴리스 12.2(15)T2 및 Cisco VPN Client 3.x에서 더 많은 지원 연결 VPN Client 3.x는 DH(Diffie Hellman) 그룹 2 정책을 사용합니다. `isakmp policy # group 2` 명령을 사용하면 3.x 클라이언트가 연결할 수 있습니다.

Cisco Secure VPN Client 1.1을 사용하여 이러한 디바이스를 구성하는 방법에 대한 자세한 내용은 [로컬 확장 인증을 사용하여 Windows용 Cisco Secure VPN Client 1.1 구성을 참조하십시오.](#)

TACACS+ 프로토콜을 사용하여 사용자 인증이 외부에서 발생하는 시나리오에 대한 자세한 내용은 IOS 라우터 간과 [Cisco VPN Client 4.x for Windows](#)의 TACACS+ 사용자 인증 컨피그레이션 예를 참조하십시오.

사용자 [인증이 RADIUS 프로토콜에서](#) 외부에서 발생하는 시나리오에 대한 자세한 내용은 [Cisco IOS 라우터와 Windows용 Cisco VPN 클라이언트 4.x 간 IPsec 구성 사용자 인증](#)을 참조하십시오.

## 시작하기 전에

### 표기 규칙

문서 규칙에 대한 자세한 내용은 [Cisco 기술 팁 표기 규칙](#)을 참조하십시오.

## 사전 요구 사항

이 컨피그레이션을 시도하기 전에 다음 전제 조건을 충족하는지 확인하십시오.

- IPSec(IP Security)에 할당할 주소 풀
- IOS 라우터의 로컬 사용자(**cisco**는 이름으로, **cisco**는 비밀번호로)
- 3000clients라는 그룹과 비밀번호 **cisco123**

## 사용되는 구성 요소

이 문서의 정보는 아래 소프트웨어 및 하드웨어 버전을 기반으로 합니다.

- 12.2(15)T2를 실행하는 3640 라우터
  - Windows 버전 3.5용 Cisco VPN Client(모든 VPN 클라이언트 3.x가 작동해야 함)
- 라우터의 **show version** 명령의 출력은 아래와 같습니다.

```
3640#show version
Cisco Internetwork Operating System Software
IOS (tm) 3600 Software (C3640-JK9O3S-M), Version 12.2(15)T2,
RELEASE SOFTWARE (fc2)
TAC Support: http://www.cisco.com/tac
Copyright (c) 1986-2003 by cisco Systems, Inc.
Compiled Wed 30-Apr-03 05:42 by nmasa
Image text-base: 0x60008950, data-base: 0x6202E000

ROM: System Bootstrap, Version 11.1(20)AA2,
EARLY DEPLOYMENT RELEASE SOFTWARE (fc1)

3640 uptime is 21 hours, 29 minutes
System returned to ROM by reload
System image file is "flash:c3640-jk9o3s-mz.122-15.T2.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](mailto:export@cisco.com).

```
cisco 3640 (R4700) processor (revision 0x00)
with 126976K/4096K bytes of memory.
Processor board ID 22789386
R4700 CPU at 100Mhz, Implementation 33, Rev 1.0
Bridging software.
X.25 software, Version 3.0.0.
SuperLAT software (copyright 1990 by Meridian Technology Corp).
```

TN3270 Emulation software.  
2 Ethernet/IEEE 802.3 interface(s)  
4 Serial network interface(s)  
DRAM configuration is 64 bits wide with parity disabled.  
125K bytes of non-volatile configuration memory.  
32768K bytes of processor board System flash (Read/Write)  
16384K bytes of processor board PCMCIA Slot0 flash (Read/Write)

Configuration register is 0x102

3640#

이 문서의 정보는 특정 랩 환경의 디바이스를 토대로 작성되었습니다. 이 문서에 사용된 모든 디바이스는 초기화된(기본) 컨피그레이션으로 시작되었습니다. 라이브 네트워크에서 작업하는 경우, 사용하기 전에 모든 명령의 잠재적인 영향을 이해해야 합니다.

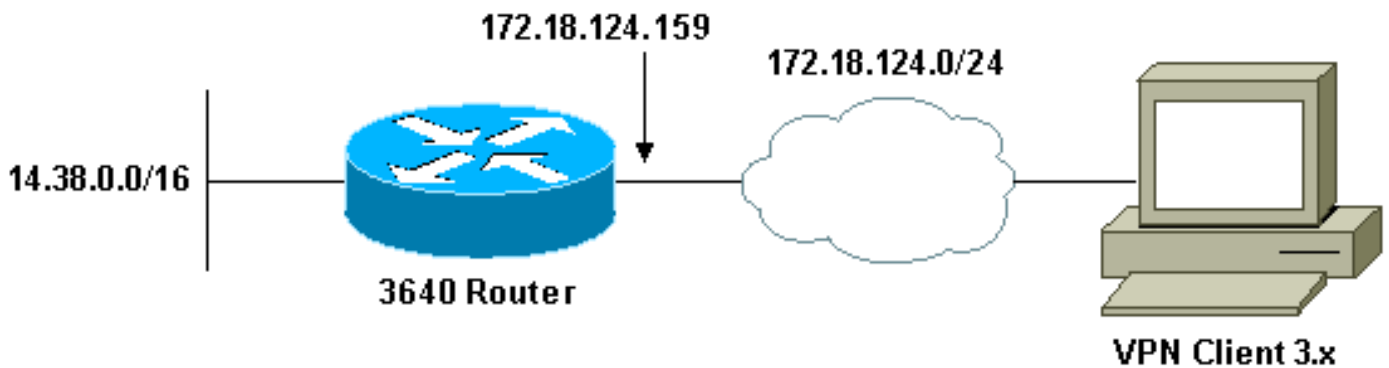
## 구성

이 섹션에는 이 문서에서 설명하는 기능을 구성하기 위한 정보가 표시됩니다.

**참고:** 이 문서에 사용된 명령에 대한 추가 정보를 찾으려면 [명령 조회 도구](#)([등록된 고객만 해당](#))를 사용합니다.

## 네트워크 다이어그램

이 문서에서는 아래 다이어그램에 표시된 네트워크 설정을 사용합니다.



## 구성

이 문서에서는 아래 표시된 구성을 사용합니다.

- [3640 라우터 구성](#)
- [VPN 클라이언트 3.x 구성](#)

## 3640 라우터 구성

### 3640 라우터

```
3640#show run
Building configuration...

Current configuration : 1884 bytes
```

```
!  
version 12.2  
service timestamps debug uptime  
service timestamps log uptime  
no service password-encryption  
!  
hostname 3640  
!  
!--- Enable Authentication, Authorizing and Accounting  
(AAA) !--- for user authentication and group  
authorization. aaa new-model  
!  
!--- To enable X-Auth for user authentication, !---  
enable the aaa authentication commands.  
  
aaa authentication login userauthen local  
  
!--- To enable group authorization, !--- enable the aaa  
authorization commands.  
  
aaa authorization network groupauthor local  
!  
!--- For local authentication of the IPSec user, !---  
create the user with password. username cisco password 0  
cisco  
!  
ip subnet-zero  
!  
!  
!  
ip audit notify log  
ip audit po max-events 100  
!  
!--- 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 that will be used to specify the !--  
- Windows Internet Naming Service (WINS) and !--- Domain  
Naming Service (DNS) server addresses to the client, !--  
- along with the pre-shared key for authentication.  
crypto isakmp client configuration group 3000client  
key cisco123  
dns 14.1.1.10  
wins 14.1.1.20  
domain cisco.com  
pool ippool  
!  
!--- 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 above. crypto dynamic-map dynmap 10  
set transform-set myset  
!  
!--- Create the actual crypto map, !--- and apply the  
aaa lists that were created earlier. crypto map  
clientmap client authentication list userauthen  
crypto map clientmap isakmp authorization list  
groupauthor
```

```
crypto map clientmap client configuration address
respond
crypto map clientmap 10 ipsec-isakmp dynamic dynmap
!
!
fax interface-type fax-mail
mta receive maximum-recipients 0
!
!
!--- Apply the crypto map on the outside interface.
interface Ethernet0/0 ip address 172.18.124.159
255.255.255.0
half-duplex
crypto map clientmap
!
interface Serial0/0
no ip address
shutdown
!
interface Ethernet0/1
ip address 14.38.100.201 255.255.0.0
no keepalive
half-duplex
!
interface Serial1/0
no ip address
shutdown
!
interface Serial1/1
no ip address
shutdown
!
interface Serial1/2
no ip address
shutdown
!
interface Serial1/3
no ip address
shutdown
!
interface Serial1/4
no ip address
shutdown
!
interface Serial1/5
no ip address
shutdown
!
interface Serial1/6
no ip address
shutdown
!
interface Serial1/7
no ip address
shutdown
!--- Create a pool of addresses to be assigned to the
VPN Clients. ip local pool ippool 14.1.1.100 14.1.1.200
ip classless
ip route 0.0.0.0 0.0.0.0 172.18.124.1
ip http server
ip pim bidir-enable
!
```

```
!  
!  
!  
call rsvp-sync  
!  
!  
mgcp profile default  
!  
dial-peer cor custom  
!  
!  
!  
!  
!  
line con 0  
  exec-timeout 0 0  
line aux 0  
line vty 0 4  
!  
!  
end  
  
3640#
```

## VPN 클라이언트 3.x 구성

이 섹션에서는 VPN 클라이언트 3.x를 구성하는 방법을 보여줍니다.

1. VPN Client를 시작한 다음 **New**(새로 만들기)를 클릭하여 새 연결을 생성합니다



2. 프롬프트가 표시되면 항목에 이름을 할당합니다. 원하는 경우 설명을 입력할 수도 있습니다. 완료되면 **Next(다음)**를 클릭합니다

## New Connection Entry Wizard



The VPN Client lets you create secure connections to remote networks. This wizard helps you create a connection entry for connecting to a specific remote network.

Name of the new connection entry:

Description of the new connection entry (optional):

3. 라우터의 공용 인터페이스의 IP 주소를 입력합니다. 완료되면 **Next(다음)**를 클릭합니다

## New Connection Entry Wizard



The following information identifies the server to which you connect for access to the remote network.

Host name or IP address of the server:



4. **Group Access Information(그룹 액세스 정보)**에서 그룹 이름과 비밀번호를 입력합니다. 아래 예는 이름이 "3000client"이고 비밀번호가 "cisco123"인 그룹을 보여줍니다. 비밀번호를 확인한 다음 다음 다음을 클릭하여 계속합니다

**New Connection Entry Wizard**

Your administrator may have provided you with group parameters or a digital certificate to authenticate your access to the remote server. If so, select the appropriate authentication method and complete your entries .

**Group Access Information**

Name: 3000client

Password: [Masked]

Confirm Password: [Masked]

**Certificate**

Name: Administrator (Microsoft)

Validate Certificate...

< Back   Next >   Cancel   Help

5. 마침을 클릭하여 레지스트리에 프로파일을 저장합니다

## New Connection Entry Wizard



You have successfully created a new virtual private networking connection entry named:

IOS

Click Finish to save this entry.

To connect to the remote network, select the Connect button from the main window.

To modify this connection entry, click Options on the main window and select Properties from the menu that appears.

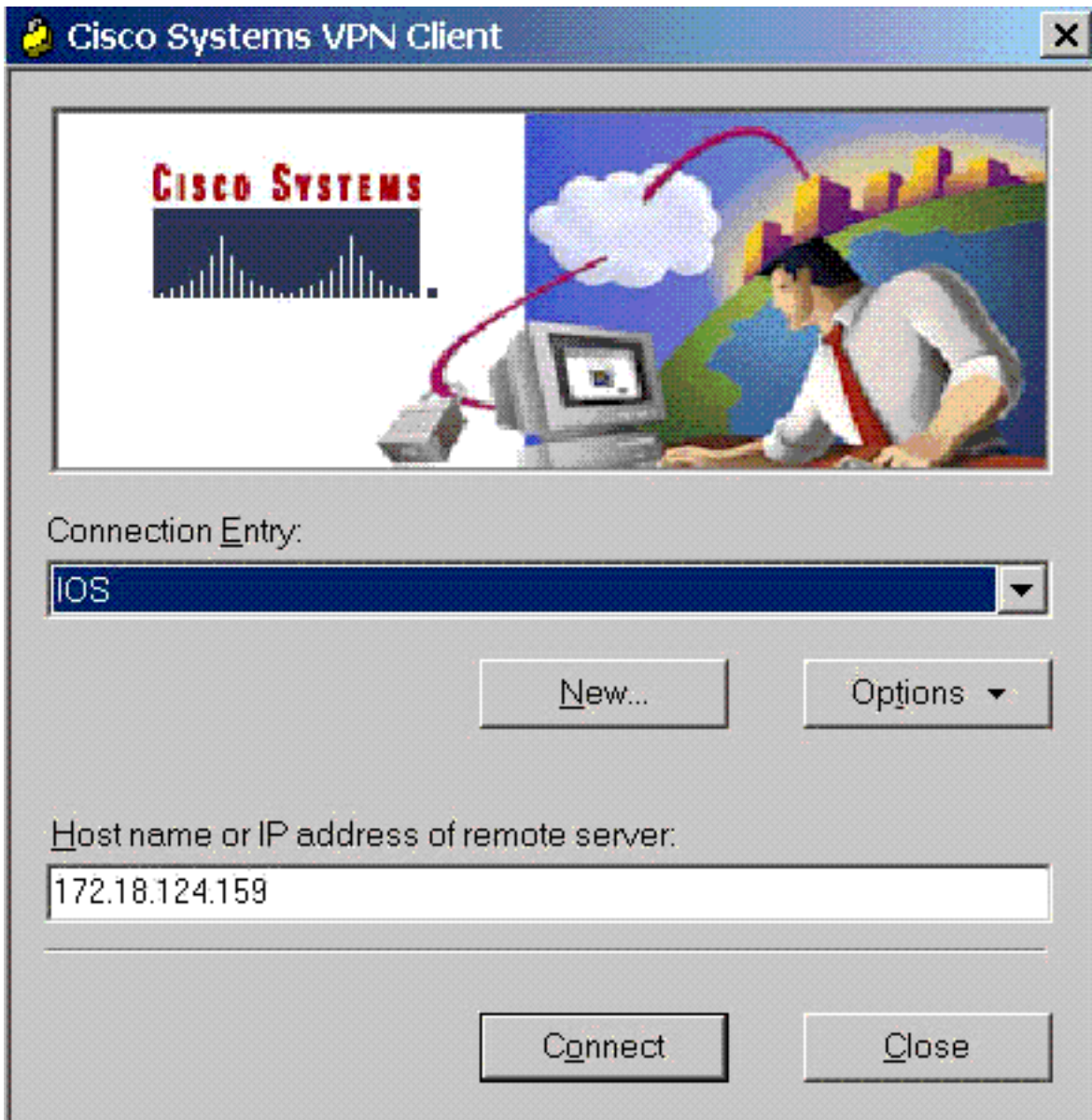
< Back

Finish

Cancel

Help

6. Connect(연결)를 클릭하여 라우터에 연결합니다. 창에 "보안 프로필 협상" 및 "링크가 이제 안전해졌습니다."라는 메시지가 표시됩니다



## 스플릿 터널링 활성화

VPN 연결에 대해 스플릿 터널링을 활성화하려면 라우터에 액세스 목록이 구성되어 있는지 확인합니다. 아래 예에서 **access-list 108** 명령은 스플릿 터널링을 위해 그룹과 연결되며 터널은 14.38.X.X/16 네트워크로 구성됩니다. 트래픽은 액세스 목록 108(예: 인터넷)에 없는 디바이스로 암호화되지 않은 상태로 이동합니다.

```
access-list 108 permit ip 14.38.0.0 0.0.255.255
14.1.1.0 0.0.0.255
```

그런 다음 그룹 속성에 액세스 목록을 적용합니다.

```
crypto isakmp client configuration group 3000client
key cisco123
dns 14.38.100.10
wins 14.38.100.20
domain cisco.com
pool ippool
```

## 다음을 확인합니다.

이 섹션에서는 컨피그레이션이 제대로 작동하는지 확인하는 데 사용할 수 있는 정보를 제공합니다.

일부 **show** 명령은 [출력 인터프리터 툴](#)에서 지원되는데(등록된 고객만), 이 툴을 사용하면 **show** 명령 출력의 분석 결과를 볼 수 있습니다.

```
3640#show crypto isakmp sa
dst          src          state      conn-id    slot
172.18.124.159 172.18.124.96 QM_IDLE    3          0
```

```
3640#show crypto ipsec sa
interface: Ethernet0/0
Crypto map tag: clientmap, local addr. 172.18.124.96
```

```
protected vrf:
local ident (addr/mask/prot/port): (0.0.0.0/0.0.0.0/0/0)
remote ident (addr/mask/prot/port):
  (14.1.1.106/255.255.255.255/0/0)
current_peer: 172.18.124.159:500
PERMIT, flags={}
#pkts encaps: 6, #pkts encrypt: 6, #pkts digest 6
#pkts decaps: 6, #pkts decrypt: 6, #pkts verify 6
#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.: 172.18.124.96,
  remote crypto endpt.: 172.18.124.159
path mtu 1500, media mtu 1500
current outbound spi: D026E0BA
```

```
inbound esp sas:
spi: 0x84E901C8(2229862856)
transform: esp-3des esp-md5-hmac ,
in use settings ={Tunnel, }
slot: 0, conn id: 2002, flow_id: 3, crypto map: clientmap
sa timing: remaining key lifetime (k/sec): (4450694/3532)
IV size: 8 bytes
replay detection support: Y
```

```
inbound ah sas:
```

```
inbound pcp sas:
```

```
outbound esp sas:
spi: 0xD026E0BA(3492208826)
transform: esp-3des esp-md5-hmac ,
in use settings ={Tunnel, }
slot: 0, conn id: 2003, flow_id: 4, crypto map: clientmap
sa timing: remaining key lifetime (k/sec): (4450699/3532)
IV size: 8 bytes
replay detection support: Y
```

```
outbound ah sas:
```

```

outbound pcp sas:

protected vrf:
local ident (addr/mask/prot/port):
  (172.18.124.159/255.255.255.255/0/0)
remote ident (addr/mask/prot/port):
  (14.1.1.105/255.255.255.255/0/0)
current_peer: 172.18.124.159:500
PERMIT, flags={}
#pkts encaps: 6, #pkts encrypt: 6, #pkts digest 6
#pkts decaps: 6, #pkts decrypt: 6, #pkts verify 6
#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.: 172.18.124.159,
  remote crypto endpt.: 172.18.124.96
path mtu 1500, media mtu 1500
current outbound spi: E8E398F8

```

```

inbound esp sas:
spi: 0xDFE24DFC(3756150268)
transform: esp-3des esp-md5-hmac ,
in use settings ={Tunnel, }
slot: 0, conn id: 2000, flow_id: 1, crypto map: clientmap
sa timing: remaining key lifetime (k/sec): (4572253/3530)
IV size: 8 bytes
replay detection support: Y

```

```
inbound ah sas:
```

```
inbound pcp sas:
```

```

outbound esp sas:
spi: 0xE8E398F8(3907229944)
transform: esp-3des esp-md5-hmac ,
in use settings ={Tunnel, }
slot: 0, conn id: 2001, flow_id: 2, crypto map: clientmap
sa timing: remaining key lifetime (k/sec): (4572253/3528)
IV size: 8 bytes
replay detection support: Y

```

```
outbound ah sas:
```

```
outbound pcp sas:
```

```
3640#show crypto engine connections active
```

ID	Interface	IP-Address	State	Algorithm	Encrypt	Decrypt
3	Ethernet0/0	172.18.124.159	set	HMAC_MD5+3DES_56_C	0	0
2000	Ethernet0/0	172.18.124.159	set	HMAC_MD5+3DES_56_C	0	6
2001	Ethernet0/0	172.18.124.159	set	HMAC_MD5+3DES_56_C	6	0
2004	Ethernet0/0	172.18.124.159	set	HMAC_MD5+3DES_56_C	0	6
2005	Ethernet0/0	172.18.124.159	set	HMAC_MD5+3DES_56_C	6	0

## 문제 해결

이 섹션에서는 컨피그레이션 문제를 해결하는 데 사용할 수 있는 정보를 제공합니다.

```
3640#debug crypto ipsec
```

Crypto IPSEC debugging is on  
3640#~~debug crypto isakmp~~  
Crypto ISAKMP debugging is on  
3640#

**ISAKMP (0:0): received packet from 172.18.124.96**  
**dport 500 sport 500 Global (N) NEW SA**

ISAKMP: Found a peer struct for 172.18.124.96, peer port 500  
ISAKMP: Locking peer struct 0x63B2EAE4, IKE refcount 1 for  
crypto\_ikmp\_config\_initialize\_sa  
ISAKMP (0:0): (Re)Setting client xauth list and state  
ISAKMP: local port 500, remote port 500  
ISAKMP: insert sa successfully sa = 63972310  
ISAKMP (0:1): processing SA payload. message ID = 0  
ISAKMP (0:1): processing ID payload. message ID = 0  
ISAKMP (0:1): peer matches \*none\* of the profiles  
ISAKMP (0:1): processing vendor id payload  
ISAKMP (0:1): vendor ID seems Unity/DPD but major 215 mismatch  
ISAKMP (0:1): vendor ID is XAUTH  
ISAKMP (0:1): processing vendor id payload  
ISAKMP (0:1): vendor ID is DPD  
ISAKMP (0:1): processing vendor id payload  
ISAKMP (0:1): vendor ID seems Unity/DPD but major 123 mismatch  
ISAKMP (0:1): vendor ID is NAT-T v2  
ISAKMP (0:1): processing vendor id payload  
ISAKMP (0:1): vendor ID seems Unity/DPD but major 194 mismatch  
ISAKMP (0:1): processing vendor id payload  
ISAKMP (0:1): vendor ID is Unity  
ISAKMP (0:1) Authentication by xauth preshared  
ISAKMP (0:1): Checking ISAKMP transform 1 against priority 1 policy  
ISAKMP: encryption AES-CBC  
ISAKMP: hash SHA  
ISAKMP: default group 2  
ISAKMP: auth XAUTHInitPreShared  
ISAKMP: life type in seconds  
ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B  
ISAKMP: keylength of 256  
ISAKMP (0:1): Encryption algorithm offered does not match policy!  
ISAKMP (0:1): atts are not acceptable. Next payload is 3  
ISAKMP (0:1): Checking ISAKMP transform 2 against priority 1 policy  
ISAKMP: encryption AES-CBC  
ISAKMP: hash MD5  
ISAKMP: default group 2  
ISAKMP: auth XAUTHInitPreShared  
ISAKMP: life type in seconds  
ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B  
ISAKMP: keylength of 256  
ISAKMP (0:1): Encryption algorithm offered does not match policy!  
ISAKMP (0:1): atts are not acceptable. Next payload is 3  
ISAKMP (0:1): Checking ISAKMP transform 3 against priority 1 policy  
ISAKMP: encryption AES-CBC  
ISAKMP: hash SHA  
ISAKMP: default group 2  
ISAKMP: auth pre-share  
ISAKMP: life type in seconds  
ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B  
ISAKMP: keylength of 256  
ISAKMP (0:1): Encryption algorithm offered does not match policy!  
ISAKMP (0:1): atts are not acceptable. Next payload is 3  
ISAKMP (0:1): Checking ISAKMP transform 4 against priority 1 policy  
ISAKMP: encryption AES-CBC  
ISAKMP: hash MD5  
ISAKMP: default group 2  
ISAKMP: auth pre-share

ISAKMP: life type in seconds  
ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B  
ISAKMP: keylength of 256  
ISAKMP (0:1): Encryh of 128  
ISAKMP (0:1): Encryption algorithm offered does not match policy!  
ISAKMP (0:1): atts are not acceptable. Next payload is 3  
ISAKMP (0:1): Checking ISAKMP transform 7 against priority 1 policy  
ISAKMP: encryption AES-CBC  
ISAKMP: hash SHA  
ISAKMP: default group 2  
ISAKMP: auth pre-share  
ISAKMP: life type in seconds  
ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B  
ISAKMP: keylength of 128  
ISAKMP (0:1): Encryption algorithm offered does not match policy!  
ISAKMP (0:1): atts are not acceptable. Next payload is 3  
ISAKMP (0:1): Checking ISAKMP transform 8 against priority 1 policy  
ISAKMP: encryption AES-CBC  
ISAKMP: hash MD5  
ISAKMP: default group 2  
ISAKMP: auth pre-share  
ISAKMP: life type in seconds  
ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B  
ISAKMP: keylength of 128  
ISAKMP (0:1): Encryption algorithm offered does not match policy!  
ISAKMP (0:1): atts are not acceptable. Next payload is 3  
ISAKMP (0:1): Checking ISAKMP transform 9 against priority 1 policy  
ISAKMP: encryption 3DES-CBC  
ISAKMP: hash SHA match policy!  
ISAKMP (0:1): atts are not acceptable. Next payload is 3  
ISAKMP (0:1): Checking ISAKMP transform 5 against priority 1 policy  
ISAKMP: encryption AES-CBC  
ISAKMP: hash SHA  
ISAKMP: default group 2  
ISAKMP: auth XAUTHInitPreShared  
ISAKMP: life type in seconds  
ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B  
ISAKMP: keylength of 128  
ISAKMP (0:1): Encryption algorithm offered does not match policy!  
ISAKMP (0:1): atts are not acceptable. Next payload is 3  
ISAKMP (0:1): Checking ISAKMP transform 6 against priority 1 policy  
ISAKMP: encryption AES-CBC  
ISAKMP: hash MD5  
ISAKMP: default group 2  
ISAKMP: auth XAUTHInitPreShared  
ISAKMP: life type in seconds  
ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B  
ISAKMP: keylength  
ISAKMP: default group 2  
ISAKMP: auth XAUTHInitPreShared  
ISAKMP: life type in seconds  
ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B  
ISAKMP (0:1): Encryption algorithm offered does not match policy!  
ISAKMP (0:1): atts are not acceptable. Next payload is 3  
ISAKMP (0:1): Checking ISAKMP transform 10 against priority 1 policy  
ISAKMP: encryption 3DES-CBC  
ISAKMP: hash MD5  
ISAKMP: default group 2  
ISAKMP: auth XAUTHInitPreShared  
ISAKMP: life type in seconds  
ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B  
ISAKMP (0:1): Encryption algorithm offered does not match policy!  
ISAKMP (0:1): atts are not acceptable. Next payload is 3  
ISAKMP (0:1): Checking ISAKMP transform 11 against priority 1 policy

ISAKMP: encryption 3DES-CBC  
ISAKMP: hash SHA  
ISAKMP: default group 2  
ISAKMP: auth pre-share  
ISAKMP: life type in seconds  
ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B  
ISAKMP (0:1): Encryption algorithm offered does not match policy!  
ISAKMP (0:1): atts are not acceptable. Next payload is 3  
ISAKMP (0:1): Checking ISAKMP transform 12 against priority 1 policy  
ISAKMP: encryption 3DES-CBC  
ISAKMP: hash MD5  
ISAKMP: default group 2  
ISAKMP: auth pre-share  
ISAKMP: life type in seconds  
ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B  
ISAKMP (0:1): Encryption algorithm offered does not match policy!  
ISAKMP (0:1): atts are not acceptable. Next payload is 3  
ISAKMP (0:1): Checking ISAKMP transform 13 against priority 1 policy  
ISAKMP: encryption DES-CBC  
ISAKMP: hash MD5  
ISAKMP: default group 2  
ISAKMP: auth XAUTHInitPreShared  
ISAKMP: life type in seconds  
ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B  
**ISAKMP (0:1): atts are acceptable. Next payload is 3**  
ISAKMP (0:1): processing KE payload. message ID = 0  
ISAKMP (0:1): processing NONCE payload. message ID = 0  
ISAKMP (0:1): vendor ID is NAT-T v2  
ISAKMP (0:1): Input = IKE\_MSG\_FROM\_PEER, IKE\_AM\_EXCH  
ISAKMP (0:1): Old State = IKE\_READY New State = IKE\_R\_AM\_AAA\_AWAIT  
ISAKMP: got callback 1  
ISAKMP (0:1): SKEYID state generated  
ISAKMP (0:1): constructed NAT-T vendor-02 ID  
ISAKMP (0:1): SA is doing pre-shared key authentication  
    plus XAUTH using id type ID\_IPV4\_ADDR  
ISAKMP (1): ID payload  
next-payload : 10  
type : 1  
addr : 172.18.124.159  
protocol : 17  
port : 0  
length : 8  
ISAKMP (1): Total payload length: 12  
ISAKMP (0:1): constructed HIS NAT-D  
ISAKMP (0:1): constructed MINE NAT-D  
ISAKMP (0:1): sending packet to 172.18.124.96 my\_port 500  
    peer\_port 500 (R) AG\_INIT\_EXCH  
ISAKMP (0:1): Input = IKE\_MSG\_FROM\_AAA, PRESHARED\_KEY\_REPLY  
ISAKMP (0:1): Old State = IKE\_R\_AM\_AAA\_AWAIT New State = IKE\_R\_AM2  
ISAKMP (0:1): received packet from 172.18.124.96 dport 500  
    sport 500 Global (R) AG\_INIT\_EXCH  
ISAKMP (0:1): processing HASH payload. message ID = 0  
ISAKMP (0:1): processing NOTIFY INITIAL\_CONTACT protocol 1  
spi 0, message ID = 0, sa = 63972310  
ISAKMP (0:1): Process initial contact,  
bring down existing phase 1 and 2 SA's with local 172.18.124.159  
    remote 172.18.124.96 remote port 500  
ISAKMP (0:1): returning IP addr to the address pool: 14.1.1.105  
ISAKMP (0:1): returning address 14.1.1.105 to pool  
ISAKMP:received payload type 17  
ISAKMP (0:1): Detected NAT-D payload  
ISAKMP (0:1): recalc my hash for NAT-D  
ISAKMP (0:1): NAT match MINE hash  
ISAKMP:received payload type 17



ISAKMP (0:1): Detected NAT-D payload  
ISAKMP (0:1): recalc his hash for NAT-D  
ISAKMP (0:1): NAT match HIS hash  
ISAKMP (0:1): SA has been authenticated with 172.18.124.96  
ISAKMP: set new node 1397605141 to CONF\_XAUTH  
ISAKMP (0:1): sending packet to 172.18.124.96  
    my\_port 500 peer\_port 500 (R) QM\_IDLE  
ISAKMP (0:1): purging node 1397605141  
ISAKMP: Sending phase 1 responder lifetime 86400  
ISAKMP (0:1): peer matches \*none\* of the profiles  
ISAKMP (0:1): Input = IKE\_MSG\_FROM\_PEER, IKE\_AM\_EXCH  
ISAKMP (0:1): Old State = IKE\_R\_AM2 New State = IKE\_P1\_COMPLETE  
IPSEC(key\_engine): got a queue event...  
ISAKMP (0:1): Need XAUTH  
ISAKMP (0:1): Input = IKE\_MSG\_INTERNAL, IKE\_PHASE1\_COMPLETE  
ISAKMP (0:1): Old State = IKE\_P1\_COMPLETE  
    New State = IKE\_XAUTH\_AAA\_START\_LOGIN\_AWAIT  
ISAKMP: got callback 1  
ISAKMP: set new node 1446280258 to CONF\_XAUTH  
ISAKMP/xauth: request attribute XAUTH\_USER\_NAME\_V2  
ISAKMP/xauth: request attribute XAUTH\_USER\_PASSWORD\_V2  
ISAKMP (0:1): initiating peer config to 172.18.124.96. ID = 1446280258  
ISAKMP (0:1): sending packet to 172.18.124.96  
    my\_port 500 peer\_port 500 (R) CONF\_XAUTH  
ISAKMP (0:1): Input = IKE\_MSG\_FROM\_AAA, IKE\_AAA\_START\_LOGIN  
ISAKMP (0:1): Old State = IKE\_XAUTH\_AAA\_START\_LOGIN\_AWAIT  
    New State = IKE\_XAUTH\_REQ\_SENT  
ISAKMP (0:1): received packet from 172.18.124.96 dport 500  
    sport 500 Global (R) CONF\_XAUTH  
ISAKMP (0:1): processing transaction payload from 172.18.124.96.  
    message ID = 1446280258  
ISAKMP: Config payload REPLY  
ISAKMP/xauth: reply attribute XAUTH\_USER\_NAME\_V2  
ISAKMP/xauth: reply attribute XAUTH\_USER\_PASSWORD\_V2  
ISAKMP (0:1): deleting node 1446280258 error FALSE  
    reason "done with xauth request/reply exchange"  
ISAKMP (0:1): Input = IKE\_MSG\_FROM\_PEER, IKE\_CFG\_REPLY  
ISAKMP (0:1): Old State = IKE\_XAUTH\_REQ\_SENT  
    New State = IKE\_XAUTH\_AAA\_CONT\_LOGIN\_AWAIT  
ISAKMP: got callback 1  
ISAKMP: set new node 117774567 to CONF\_XAUTH  
ISAKMP (0:1): initiating peer config to 172.18.124.96.  
    ID = 117774567  
ISAKMP (0:1): sending packet to 172.18.124.96 my\_port 500  
    peer\_port 500 (R) CONF\_XAUTH  
ISAKMP (0:1): Input = IKE\_MSG\_FROM\_AAA, IKE\_AAA\_CONT\_LOGIN  
ISAKMP (0:1): Old State = IKE\_XAUTH\_AAA\_CONT\_LOGIN\_AWAIT  
    New State = IKE\_XAUTH\_SET\_SENT  
ISAKMP (0:1): received packet from 172.18.124.96 dport 500  
    sport 500 Global (R) CONF\_XAUTH  
ISAKMP (0:1): processing transaction payload from 172.18.124.96.  
    message ID = 117774567  
ISAKMP: Config payload ACK  
ISAKMP (0:1): XAUTH ACK Processed  
ISAKMP (0:1): deleting node 117774567 error FALSE  
    reason "done with transaction"  
ISAKMP (0:1): Input = IKE\_MSG\_FROM\_PEER, IKE\_CFG\_ACK  
ISAKMP (0:1): Old State = IKE\_XAUTH\_SET\_SENT  
    New State = IKE\_P1\_COMPLETE  
ISAKMP (0:1): Input = IKE\_MSG\_INTERNAL, IKE\_PHASE1\_COMPLETE  
ISAKMP (0:1): Old State = IKE\_P1\_COMPLETE  
    New State = IKE\_P1\_COMPLETE  
ISAKMP (0:1): received packet from 172.18.124.96 dport 500  
    sport 500 Global (R) QM\_IDLE

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ISAKMP: set new node 188739171 to QM_IDLE
ISAKMP (0:1): processing transaction payload from 172.18.124.96.
    message ID = 188739171
ISAKMP: Config payload REQUEST
ISAKMP (0:1): checking request:
ISAKMP: IP4_ADDRESS
ISAKMP: IP4_NETMASK
ISAKMP: IP4_DNS
ISAKMP: IP4_NBNS
ISAKMP: ADDRESS_EXPIRY
ISAKMP: APPLICATION_VERSION
ISAKMP: UNKNOWN Unknown Attr: 0x7000
ISAKMP: UNKNOWN Unknown Attr: 0x7001
ISAKMP: DEFAULT_DOMAIN
ISAKMP: SPLIT_INCLUDE
ISAKMP: UNKNOWN Unknown Attr: 0x7003
ISAKMP: UNKNOWN Unknown Attr: 0x7007
ISAKMP: UNKNOWN Unknown Attr: 0x7008
ISAKMP: UNKNOWN Unknown Attr: 0x7009
ISAKMP: UNKNOWN Unknown Attr: 0x700A
ISAKMP: UNKNOWN Unknown Attr: 0x7005
ISAKMP (0:1): Input = IKE_MSG_FROM_PEER, IKE_CFG_REQUEST
ISAKMP (0:1): Old State = IKE_P1_COMPLETE
    New State = IKE_CONFIG_AUTHOR_AAA_AWAIT
ISAKMP: got callback 1
ISAKMP (0:1): attributes sent in message:
Address: 0.2.0.0
ISAKMP (0:1): allocating address 14.1.1.106
ISAKMP: Sending private address: 14.1.1.106
ISAKMP: Sending IP4_DNS server address: 14.1.1.10
ISAKMP: Sending IP4_NBNS server address: 14.1.1.20
ISAKMP: Sending ADDRESS_EXPIRY seconds left to
    use the address: 86396
ISAKMP: Sending APPLICATION_VERSION string: Cisco
    Internetwork Operating System Software
IOS (tm) 3600 Software (C3640-JK903S-M), Version 12.2(15)T2,
    RELEASE SOFTWARE (fc2)
TAC Support: http://www.cisco.com/tac
Copyright (c) 1986-2003 by cisco Systems, Inc.
Compiled Wed 30-Apr-03 05:42 by nmasa
ISAKMP (0/1): Unknown Attr: UNKNOWN (0x7000)
ISAKMP (0/1): Unknown Attr: UNKNOWN (0x7001)
ISAKMP: Sending DEFAULT_DOMAIN default domain name: cisco.com
ISAKMP (0/1): Unknown Attr: UNKNOWN (0x7003)
ISAKMP (0/1): Unknown Attr: UNKNOWN (0x7007)
ISAKMP (0/1): Unknown Attr: UNKNOWN (0x7008)
ISAKMP (0/1): Unknown Attr: UNKNOWN (0x7009)
ISAKMP (0/1): Unknown Attr: UNKNOWN (0x700A)
ISAKMP (0/1): Unknown Attr: UNKNOWN (0x7005)
ISAKMP (0:1): responding to peer config from 172.18.124.96.
    ID = 188739171
ISAKMP (0:1): sending packet to 172.18.124.96 my_port 500
    peer_port 500 (R) CONF_ADDR
ISAKMP (0:1): deleting node 188739171 error FALSE reason ""
ISAKMP (0:1): Input = IKE_MSG_FROM_AAA, IKE_AAA_GROUP_ATTR
ISAKMP (0:1): Old State = IKE_CONFIG_AUTHOR_AAA_AWAIT
    New State = IKE_P1_COMPLETE
ISAKMP (0:1): received packet from 172.18.124.96 dport 500
    sport 500 Global (R) QM_IDLE
ISAKMP: set new node -1836135476 to QM_IDLE
ISAKMP (0:1): processing HASH payload. message ID = -1836135476
ISAKMP (0:1): processing SA payload. message ID = -1836135476
ISAKMP (0:1): Checking IPsec proposal 1
ISAKMP: transform 1, ESP_AES
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ISAKMP: attributes in transform:
ISAKMP: authenticator is HMAC-MD5
ISAKMP: encaps is 1
ISAKMP: key length is 256
ISAKMP: SA life type in seconds
ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
ISAKMP (0:1): atts are acceptable.
ISAKMP (0:1): Checking IPsec proposal 1
ISAKMP (0:1): transform 1, IPsec LZS
ISAKMP: attributes in transform:
ISAKMP: encaps is 1
ISAKMP: SA life type in seconds
ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
ISAKMP (0:1): atts are acceptable.
IPSEC(validate_proposal_request): proposal part #1,
(key eng. msg.) INBOUND local= 172.18.124.159, remote= 172.18.124.96,
local_proxy= 172.18.124.159/255.255.255.255/0/0 (type=1),
remote_proxy= 14.1.1.106/255.255.255.255/0/0 (type=1),
protocol= ESP, transform= esp-aes 256 esp-md5-hmac ,
lifedur= 0s and 0kb,
spi= 0x0(0), conn_id= 0, keysize= 256, flags= 0x2
IPSEC(validate_proposal_request): proposal part #2,
(key eng. msg.) INBOUND local= 172.18.124.159, remote= 172.18.124.96,
local_proxy= 172.18.124.159/255.255.255.255/0/0 (type=1),
remote_proxy= 14.1.1.106/255.255.255.255/0/0 (type=1),
protocol= PCP, transform= comp-lzs ,
lifedur= 0s and 0kb,
spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x2
IPSEC(kei_proxy): head = clientmap, map->ivrf = , kei->ivrf =
IPSEC(validate_transform_proposal): transform proposal
    not supported for identity:
{esp-aes 256 esp-md5-hmac comp-lzs }
ISAKMP (0:1): IPsec policy invalidated proposal
ISAKMP (0:1): Checking IPsec proposal 2
ISAKMP: transform 1, ESP_AES
ISAKMP: attributes in transform:
ISAKMP: authenticator is HMAC-SHA
ISAKMP: encaps is 1
ISAKMP: key length is 256
ISAKMP: SA life type in seconds
ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
ISAKMP (0:1): atts are acceptable.
ISAKMP (0:1): Checking IPsec proposal 2
ISAKMP (0:1): transform 1, IPsec LZS
ISAKMP: attributes in transform:
ISAKMP: encaps is 1
ISAKMP: SA life type in seconds
ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
ISAKMP (0:1): atts are acceptable.
IPSEC(validate_proposal_request): proposal part #1,
(key eng. msg.) INBOUND local= 172.18.124.159, remote= 172.18.124.96,
local_proxy= 172.18.124.159/255.255.255.255/0/0 (type=1),
remote_proxy= 14.1.1.106/255.255.255.255/0/0 (type=1),
protocol= ESP, transform= esp-aes 256 esp-sha-hmac ,
lifedur= 0s and 0kb,
spi= 0x0(0), conn_id= 0, keysize= 256, flags= 0x2
IPSEC(validate_proposal_request): proposal part #2,
(key eng. msg.) INBOUND local= 172.18.124.159, remote= 172.18.124.96,
local_proxy= 172.18.124.159/255.255.255.255/0/0 (type=1),
remote_proxy= 14.1.1.106/255.255.255.255/0/0 (type=1),
protocol= PCP, transform= comp-lzs ,
lifedur= 0s and 0kb,
spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x2
IPSEC(kei_proxy): head = clientmap, map->ivrf = , kei->ivrf =
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IPSEC(validate_transform_proposal): transform proposal
  not supported for identity:
{esp-aes 256 esp-sha-hmac comp-lzs }
ISAKMP (0:1): IPsec policy invalidated proposal
ISAKMP (0:1): Checking IPsec proposal 3
ISAKMP: transform 1, ESP_AES
ISAKMP: attributes in transform:
ISAKMP: authenticator is HMAC-MD5
ISAKMP: encaps is 1
ISAKMP: key length is 128
ISAKMP: SA life type in seconds
ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
ISAKMP (0:1): atts are acceptable.
ISAKMP (0:1): Checking IPsec proposal 3
ISAKMP (0:1): transform 1, IPPCP LZS
ISAKMP: attributes in transform:
ISAKMP: encaps is 1
ISAKMP: SA life type in seconds
ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
ISAKMP (0:1): atts are acceptable.
IPSEC(validate_proposal_request): proposal part #1,
(key eng. msg.) INBOUND local= 172.18.124.159, remote= 172.18.124.96,
local_proxy= 172.18.124.159/255.255.255.255/0/0 (type=1),
remote_proxy= 14.1.1.106/255.255.255.255/0/0 (type=1),
protocol= ESP, transform= esp-aes esp-md5-hmac ,
lifedur= 0s and 0kb,
spi= 0x0(0), conn_id= 0, keysize= 128, flags= 0x2
IPSEC(validate_proposal_request): proposal part #2,
(key eng. msg.) INBOUND local= 172.18.124.159, remote= 172.18.124.96,
local_proxy= 172.18.124.159/255.255.255.255/0/0 (type=1),
remote_proxy= 14.1.1.106/255.255.255.255/0/0 (type=1),
protocol= PCP, transform= comp-lzs ,
lifedur= 0s and 0kb,
spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x2
IPSEC(kei_proxy): head = clientmap, map->ivrf = , kei->ivrf =
IPSEC(validate_transform_proposal): transform proposal
  not supported for identity:
{esp-aes esp-md5-hmac comp-lzs }
ISAKMP (0:1): IPsec policy invalidated proposal
ISAKMP (0:1): Checking IPsec proposal 4
ISAKMP: transform 1, ESP_AES
ISAKMP: attributes in transform:
ISAKMP: authenticator is HMAC-SHA
ISAKMP: encaps is 1
ISAKMP: key length is 128
ISAKMP: SA life type in seconds
ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
ISAKMP (0:1): atts are acceptable.
ISAKMP (0:1): Checking IPsec proposal 4
ISAKMP (0:1): transform 1, IPPCP LZS
ISAKMP: attributes in transform:
ISAKMP: encaps is 1
ISAKMP: SA life type in seconds
ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
ISAKMP (0:1): atts are acceptable.
IPSEC(validate_proposal_request): proposal part #1,
(key eng. msg.) INBOUND local= 172.18.124.159, remote= 172.18.124.96,
local_proxy= 172.18.124.159/255.255.255.255/0/0 (type=1),
remote_proxy= 14.1.1.106/255.255.255.255/0/0 (type=1),
protocol= ESP, transform= esp-aes esp-sha-hmac ,
lifedur= 0s and 0kb,
spi= 0x0(0), conn_id= 0, keysize= 128, flags= 0x2
IPSEC(validate_proposal_request): proposal part #2,
(key eng. msg.) INBOUND local= 172.18.124.159, remote= 172.18.124.96,
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local_proxy= 172.18.124.159/255.255.255.255/0/0 (type=1),
remote_proxy= 14.1.1.106/255.255.255.255/0/0 (type=1),
protocol= PCP, transform= comp-lzs ,
lifedur= 0s and 0kb,
spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x2
IPSEC(kei_proxy): head = clientmap, map->ivrf = , kei->ivrf =
IPSEC(validate_transform_proposal): transform proposal
    not supported for identity:
{esp-aes esp-sha-hmac comp-lzs }
ISAKMP (0:1): IPsec policy invalidated proposal
ISAKMP (0:1): Checking IPsec proposal 5
ISAKMP: transform 1, ESP_AES
ISAKMP: attributes in transform:
ISAKMP: authenticator is HMAC-MD5
ISAKMP: encaps is 1
ISAKMP: key length is 256
ISAKMP: SA life type in seconds
ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
ISAKMP (0:1): atts are acceptable.
IPSEC(validate_proposal_request): proposal part #1,
(key eng. msg.) INBOUND local= 172.18.124.159, remote= 172.18.124.96,
local_proxy= 172.18.124.159/255.255.255.255/0/0 (type=1),
remote_proxy= 14.1.1.106/255.255.255.255/0/0 (type=1),
protocol= ESP, transform= esp-aes 256 esp-md5-hmac ,
lifedur= 0s and 0kb,
spi= 0x0(0), conn_id= 0, keysize= 256, flags= 0x2
IPSEC(kei_proxy): head = clientmap, map->ivrf = , kei->ivrf =
IPSEC(validate_transform_proposal): transform proposal
    not supported for identity:
{esp-aes 256 esp-md5-hmac }
ISAKMP (0:1): IPsec policy invalidated proposal
ISAKMP (0:1): Checking IPsec proposal 6
ISAKMP: transform 1, ESP_AES
ISAKMP: attributes in transform:
ISAKMP: authenticator is HMAC-SHA
ISAKMP: encaps is 1
ISAKMP: key length is 256
ISAKMP: SA life type in seconds
ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
ISAKMP (0:1): atts are acceptable.
IPSEC(validate_proposal_request): proposal part #1,
(key eng. msg.) INBOUND local= 172.18.124.159, remote= 172.18.124.96,
local_proxy= 172.18.124.159/255.255.255.255/0/0 (type=1),
remote_proxy= 14.1.1.106/255.255.255.255/0/0 (type=1),
protocol= ESP, transform= esp-aes 256 esp-sha-hmac ,
lifedur= 0s and 0kb,
spi= 0x0(0), conn_id= 0, keysize= 256, flags= 0x2
IPSEC(kei_proxy): head = clientmap, map->ivrf = , kei->ivrf =
IPSEC(validate_transform_proposal): transform proposal
    not supported for identity:
{esp-aes 256 esp-sha-hmac }
ISAKMP (0:1): IPsec policy invalidated proposal
ISAKMP (0:1): Checking IPsec proposal 7
ISAKMP: transform 1, ESP_AES
ISAKMP: attributes in transform:
ISAKMP: authenticator is HMAC-MD5
ISAKMP: encaps is 1
ISAKMP: key length is 128
ISAKMP: SA life type in seconds
ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
ISAKMP (0:1): atts are acceptable.
IPSEC(validate_proposal_request): proposal part #1,
(key eng. msg.) INBOUND local= 172.18.124.159, remote= 172.18.124.96,
local_proxy= 172.18.124.159/255.255.255.255/0/0 (type=1),
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remote_proxy= 14.1.1.106/255.255.255.255/0/0 (type=1),
protocol= ESP, transform= esp-aes esp-md5-hmac ,
lifedur= 0s and 0kb,
spi= 0x0(0), conn_id= 0, keysize= 128, flags= 0x2
IPSEC(kei_proxy): head = clientmap, map->ivrf = , kei->ivrf =
IPSEC(validate_transform_proposal): transform proposal
    not supported for identity:
{esp-aes esp-md5-hmac }
ISAKMP (0:1): IPsec policy invalidated proposal
ISAKMP (0:1): Checking IPsec proposal 8
ISAKMP: transform 1, ESP_AES
ISAKMP: attributes in transform:
ISAKMP: authenticator is HMAC-SHA
ISAKMP: encaps is 1
ISAKMP: key length is 128
ISAKMP: SA life type in seconds
ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
ISAKMP (0:1): atts are acceptable.
IPSEC(validate_proposal_request): proposal part #1,
(key eng. msg.) INBOUND local= 172.18.124.159, remote= 172.18.124.96,
local_proxy= 172.18.124.159/255.255.255.255/0/0 (type=1),
remote_proxy= 14.1.1.106/255.255.255.255/0/0 (type=1),
protocol= ESP, transform= esp-aes esp-sha-hmac ,
lifedur= 0s and 0kb,
spi= 0x0(0), conn_id= 0, keysize= 128, flags= 0x2
IPSEC(kei_proxy): head = clientmap, map->ivrf = , kei->ivrf =
IPSEC(validate_transform_proposal): transform proposal
    not supported for identity:
{esp-aes esp-sha-hmac }
ISAKMP (0:1): IPsec policy invalidated proposal
ISAKMP (0:1): Checking IPsec proposal 9
ISAKMP: transform 1, ESP_3DES
ISAKMP: attributes in transform:
ISAKMP: authenticator is HMAC-MD5
ISAKMP: encaps is 1
ISAKMP: SA life type in seconds
ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
ISAKMP (0:1): atts are acceptable.
ISAKMP (0:1): Checking IPsec proposal 9
ISAKMP (0:1): transform 1, IPPCP LZS
ISAKMP: attributes in transform:
ISAKMP: encaps is 1
ISAKMP: SA life type in seconds
ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
ISAKMP (0:1): atts are acceptable.
IPSEC(validate_proposal_request): proposal part #1,
(key eng. msg.) INBOUND local= 172.18.124.159, remote= 172.18.124.96,
local_proxy= 172.18.124.159/255.255.255.255/0/0 (type=1),
remote_proxy= 14.1.1.106/255.255.255.255/0/0 (type=1),
protocol= ESP, transform= esp-3des esp-md5-hmac ,
lifedur= 0s and 0kb,
spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x2
IPSEC(validate_proposal_request): proposal part #2,
(key eng. msg.) INBOUND local= 172.18.124.159, remote= 172.18.124.96,
local_proxy= 172.18.124.159/255.255.255.255/0/0 (type=1),
remote_proxy= 14.1.1.106/255.255.255.255/0/0 (type=1),
protocol= PCP, transform= comp-lzs ,
lifedur= 0s and 0kb,
spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x2
IPSEC(kei_proxy): head = clientmap, map->ivrf = , kei->ivrf =
IPSEC(validate_transform_proposal): transform proposal
    not supported for identity:
{esp-3des esp-md5-hmac comp-lzs }
ISAKMP (0:1): IPsec policy invalidated proposal
```

```
ISAKMP (0:1): Checking IPsec proposal 10
ISAKMP: transform 1, ESP_3DES
ISAKMP: attributes in transform:
ISAKMP: authenticator is HMAC-SHA
ISAKMP: encaps is 1
ISAKMP: SA life type in seconds
ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
ISAKMP (0:1): atts are acceptable.
ISAKMP (0:1): Checking IPsec proposal 10
ISAKMP (0:1): transform 1, IPsec LZS
ISAKMP: attributes in transform:
ISAKMP: encaps is 1
ISAKMP: SA life type in seconds
ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
ISAKMP (0:1): atts are acceptable.
IPSEC(validate_proposal_request): proposal part #1,
(key eng. msg.) INBOUND local= 172.18.124.159, remote= 172.18.124.96,
local_proxy= 172.18.124.159/255.255.255.255/0/0 (type=1),
remote_proxy= 14.1.1.106/255.255.255.255/0/0 (type=1),
protocol= ESP, transform= esp-3des esp-sha-hmac ,
lifedur= 0s and 0kb,
spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x2
IPSEC(validate_proposal_request): proposal part #2,
(key eng. msg.) INBOUND local= 172.18.124.159, remote= 172.18.124.96,
local_proxy= 172.18.124.159/255.255.255.255/0/0 (type=1),
remote_proxy= 14.1.1.106/255.255.255.255/0/0 (type=1),
protocol= PCP, transform= comp-lzs ,
lifedur= 0s and 0kb,
spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x2
IPSEC(kei_proxy): head = clientmap, map->ivrf = , kei->ivrf =
IPSEC(validate_transform_proposal): transform proposal
    not supported for identity:
{esp-3des esp-sha-hmac comp-lzs }
ISAKMP (0:1): IPsec policy invalidated proposal
ISAKMP (0:1): Checking IPsec proposal 11
ISAKMP: transform 1, ESP_3DES
ISAKMP: attributes in transform:
ISAKMP: authenticator is HMAC-MD5
ISAKMP: encaps is 1
ISAKMP: SA life type in seconds
ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
ISAKMP (0:1): atts are acceptable.
IPSEC(validate_proposal_request): proposal part #1,
(key eng. msg.) INBOUND local= 172.18.124.159, remote= 172.18.124.96,
local_proxy= 172.18.124.159/255.255.255.255/0/0 (type=1),
remote_proxy= 14.1.1.106/255.255.255.255/0/0 (type=1),
protocol= ESP, transform= esp-3des esp-md5-hmac ,
lifedur= 0s and 0kb,
spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x2
IPSEC(kei_proxy): head = clientmap, map->ivrf = , kei->ivrf =
ISAKMP (0:1): processing NONCE payload. message ID = -1836135476
ISAKMP (0:1): processing ID payload. message ID = -1836135476
ISAKMP (0:1): processing ID payload. message ID = -1836135476
ISAKMP (0:1): asking for 1 spis from ipsec
ISAKMP (0:1): Node -1836135476, Input = IKE_MSG_FROM_PEER,
    IKE_QM_EXCH
ISAKMP (0:1): Old State = IKE_QM_READY
    New State = IKE_QM_SPI_STARVE
ISAKMP (0:1): received packet from 172.18.124.96 dport 500
    sport 500 Global (R) QM_IDLE
ISAKMP: set new node -1171731793 to QM_IDLE
ISAKMP (0:1): processing HASH payload. message ID = -1171731793
ISAKMP (0:1): processing SA payload. message ID = -1171731793
ISAKMP (0:1): Checking IPsec proposal 1
```

ISAKMP: transform 1, ESP\_AES  
ISAKMP: attributes in transform:  
ISAKMP: authenticator is HMAC-MD5  
ISAKMP: encaps is 1  
ISAKMP: key length is 256  
ISAKMP: SA life type in seconds  
ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B  
ISAKMP (0:1): atts are acceptable.  
ISAKMP (0:1): Checking IPsec proposal 1  
ISAKMP (0:1): transform 1, IPPCP LZS  
ISAKMP: attributes in transform:  
ISAKMP: encaps is 1  
ISAKMP: SA life type in seconds  
ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B  
ISAKMP (0:1): atts are acceptable.  
IPSEC(validate\_proposal\_request): proposal part #1,  
(key eng. msg.) INBOUND local= 172.18.124.159, remote= 172.18.124.96,  
local\_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4),  
remote\_proxy= 14.1.1.106/255.255.255.255/0/0 (type=1),  
protocol= ESP, transform= esp-aes 256 esp-md5-hmac ,  
lifedur= 0s and 0kb,  
spi= 0x0(0), conn\_id= 0, keysize= 256, flags= 0x2  
IPSEC(validate\_proposal\_request): proposal part #2,  
(key eng. msg.) INBOUND local= 172.18.124.159, remote= 172.18.124.96,  
local\_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4),  
remote\_proxy= 14.1.1.106/255.255.255.255/0/0 (type=1),  
protocol= PCP, transform= comp-lzs ,  
lifedur= 0s and 0kb,  
spi= 0x0(0), conn\_id= 0, keysize= 0, flags= 0x2  
IPSEC(kei\_proxy): head = clientmap, map->ivrf = , kei->ivrf =  
IPSEC(validate\_transform\_proposal): transform proposal  
not supported for identity:  
{esp-aes 256 esp-md5-hmac comp-lzs }  
ISAKMP (0:1): IPsec policy invalidated proposal  
ISAKMP (0:1): Checking IPsec proposal 2  
ISAKMP: transform 1, ESP\_AES  
ISAKMP: attributes in transform:  
ISAKMP: authenticator is HMAC-SHA  
ISAKMP: encaps is 1  
ISAKMP: key length is 256  
ISAKMP: SA life type in seconds  
ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B  
ISAKMP (0:1): atts are acceptable.  
ISAKMP (0:1): Checking IPsec proposal 2  
ISAKMP (0:1): transform 1, IPPCP LZS  
ISAKMP: attributes in transform:  
ISAKMP: encaps is 1  
ISAKMP: SA life type in seconds  
ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B  
ISAKMP (0:1): atts are acceptable.  
IPSEC(validate\_proposal\_request): proposal part #1,  
(key eng. msg.) INBOUND local= 172.18.124.159, remote= 172.18.124.96,  
local\_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4),  
remote\_proxy= 14.1.1.106/255.255.255.255/0/0 (type=1),  
protocol= ESP, transform= esp-aes 256 esp-sha-hmac ,  
lifedur= 0s and 0kb,  
spi= 0x0(0), conn\_id= 0, keysize= 256, flags= 0x2  
IPSEC(validate\_proposal\_request): proposal part #2,  
(key eng. msg.) INBOUND local= 172.18.124.159, remote= 172.18.124.96,  
local\_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4),  
remote\_proxy= 14.1.1.106/255.255.255.255/0/0 (type=1),  
protocol= PCP, transform= comp-lzs ,  
lifedur= 0s and 0kb,  
spi= 0x0(0), conn\_id= 0, keysize= 0, flags= 0x2



```
IPSEC(kei_proxy): head = clientmap, map->ivrf = , kei->ivrf =
IPSEC(validate_transform_proposal): transform proposal
    not supported for identity:
{esp-aes 256 esp-sha-hmac comp-lzs }
ISAKMP (0:1): IPsec policy invalidated proposal
ISAKMP (0:1): Checking IPsec proposal 3
ISAKMP: transform 1, ESP_AES
ISAKMP: attributes in transform:
ISAKMP: authenticator is HMAC-MD5
ISAKMP: encaps is 1
ISAKMP: key length is 128
ISAKMP: SA life type in seconds
ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
ISAKMP (0:1): atts are acceptable.
ISAKMP (0:1): Checking IPsec proposal 3
ISAKMP (0:1): transform 1, IPPCP LZS
ISAKMP: attributes in transform:
ISAKMP: encaps is 1
ISAKMP: SA life type in seconds
ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
ISAKMP (0:1): atts are acceptable.
IPSEC(validate_proposal_request): proposal part #1,
(key eng. msg.) INBOUND local= 172.18.124.159, remote= 172.18.124.96,
local_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4),
remote_proxy= 14.1.1.106/255.255.255.255/0/0 (type=1),
protocol= ESP, transform= esp-aes esp-md5-hmac ,
lifedur= 0s and 0kb,
spi= 0x0(0), conn_id= 0, keysize= 128, flags= 0x2
IPSEC(validate_proposal_request): proposal part #2,
(key eng. msg.) INBOUND local= 172.18.124.159, remote= 172.18.124.96,
local_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4),
remote_proxy= 14.1.1.106/255.255.255.255/0/0 (type=1),
protocol= PCP, transform= comp-lzs ,
lifedur= 0s and 0kb,
spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x2
IPSEC(kei_proxy): head = clientmap, map->ivrf = , kei->ivrf =
IPSEC(validate_transform_proposal): transform proposal
    not supported for identity:
{esp-aes esp-md5-hmac comp-lzs }
ISAKMP (0:1): IPsec policy invalidated proposal
ISAKMP (0:1): Checking IPsec proposal 4
ISAKMP: transform 1, ESP_AES
ISAKMP: attributes in transform:
ISAKMP: authenticator is HMAC-SHA
ISAKMP: encaps is 1
ISAKMP: key length is 128
ISAKMP: SA life type in seconds
ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
ISAKMP (0:1): atts are acceptable.
ISAKMP (0:1): Checking IPsec proposal 4
ISAKMP (0:1): transform 1, IPPCP LZS
ISAKMP: attributes in transform:
ISAKMP: encaps is 1
ISAKMP: SA life type in seconds
ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
ISAKMP (0:1): atts are acceptable.
IPSEC(validate_proposal_request): proposal part #1,
(key eng. msg.) INBOUND local= 172.18.124.159, remote= 172.18.124.96,
local_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4),
remote_proxy= 14.1.1.106/255.255.255.255/0/0 (type=1),
protocol= ESP, transform= esp-aes esp-sha-hmac ,
lifedur= 0s and 0kb,
spi= 0x0(0), conn_id= 0, keysize= 128, flags= 0x2
IPSEC(validate_proposal_request): proposal part #2,
```

```
(key eng. msg.) INBOUND local= 172.18.124.159, remote= 172.18.124.96,
local_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4),
remote_proxy= 14.1.1.106/255.255.255.255/0/0 (type=1),
protocol= PCP, transform= comp-lzs ,
lifedur= 0s and 0kb,
spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x2
IPSEC(kei_proxy): head = clientmap, map->ivrf = , kei->ivrf =
IPSEC(validate_transform_proposal): transform proposal
    not supported for identity:
{esp-aes esp-sha-hmac comp-lzs }
ISAKMP (0:1): IPsec policy invalidated proposal
ISAKMP (0:1): Checking IPsec proposal 5
ISAKMP: transform 1, ESP_AES
ISAKMP: attributes in transform:
ISAKMP: authenticator is HMAC-MD5
ISAKMP: encaps is 1
ISAKMP: key length is 256
ISAKMP: SA life type in seconds
ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
ISAKMP (0:1): processing ID payload. message ID = -1171731793
ISAKMP (0:1): processing ID payload. message ID = -1171731793
ISAKMP (0:1): asking for 1 spis from ipsec
ISAKMP (0:1): Node -1171731793, Input = IKE_MSG_FROM_PEER,
    IKE_QM_EXCH
ISAKMP (0:1): Old State = IKE_QM_READY
    New State = IKE_QM_SPI_STARVE
IPSEC(key_engine): got a queue event...
IPSEC(spi_response): getting spi 3756150268 for SA
from 172.18.124.159 to 172.18.124.96 for prot 3
IPSEC(key_engine): got a queue event...
IPSEC(spi_response): getting spi 2229862856 for SA
from 172.18.124.159 to 172.18.124.96 for prot 3
ISAKMP: received ke message (2/1)
ISAKMP: received ke message (2/1)
ISAKMP (0:1): sending packet to 172.18.124.96 my_port 500
    peer_port 500 (R) QM_IDLE
ISAKMP (0:1): Node -1836135476, Input = IKE_MSG_FROM_IPSEC,
    IKE_SPI_REPLY
ISAKMP (0:1): Old State = IKE_QM_SPI_STARVE
    New State = IKE_QM_R_QM2
ISAKMP (0:1): received packet from 172.18.124.96 dport 500
    sport 500 Global (R) QM_IDLE
ISAKMP: Locking peer struct 0x63B2EAE4,
    IPSEC refcount 1 for for stuff_ke
ISAKMP (0:1): Creating IPsec SAs
inbound SA from 172.18.124.96 to 172.18.124.159 (f/i) 0/ 0
(proxy 14.1.1.106 to 172.18.124.159)
has spi 0xDFE24DFC and conn_id 2000 and flags 2
lifetime of 2147483 seconds
has client flags 0x0
ISAKMP (0:1): Old State = IKE_QM_SPI_STARVE
    New State = IKE_QM_R_QM2
ISAKMP (0:1): received packet from 172.18.124.96 dport 500
    sport 500 Global (R) QM_IDLE
ISAKMP: Locking peer struct 0x63B2EAE4,
    IPSEC refcount 2 for for stuff_ke
ISAKMP (0:1): Creating IPsec SAs
inbound SA from 172.18.124.96 to 172.18.124.159 (f/i) 0/ 0
(proxy 14.1.1.106 to 0.0.0.0)
has spi 0x84E901C8 and conn_id 2002 and flags 2
lifetime of 2147483 seconds
has client flags 0x0
outbound SA from 172.18.124.159 to 172.18.124.96 (f/i) 0/ 0
(proxy 0.0.0.0 to 14.1.1.106 )
```

```

has spi -802758470 and conn_id 2003 and flags A
IPSEC(add mtree): src 0.0.0.0, dest 14.1.1.106, dest_port 0
IPSEC(create_sa): sa created,
(sa) sa_dest= 172.18.124.159, sa_prot= 50,
sa_spi= 0x84E901C8(2229862856),
sa_trans= esp-3des esp-md5-hmac , sa_conn_id= 2002
IPSEC(create_sa): sa created,
(sa) sa_dest= 172.18.124.96, sa_prot= 50,
sa_spi= 0xD026E0BA(3492208826),
sa_trans= esp-3des esp-md5-hmac , sa_conn_id= 2003
ISAKMP (0:1): received packet from 172.18.124.96 dport 500
sport 500 Global (R) QM_IDLE
ISAKMP: set new node 839140381 to QM_IDLE
ISAKMP (0:1): processing HASH payload. message ID = 839140381
ISAKMP (0:1): processing NOTIFY R_U_THERE protocol 1
spi 0, message ID = 839140381, sa = 63972310
ISAKMP (0:1): deleting node 839140381 error FALSE
reason "informational (in) state 1"
ISAKMP (0:1): Input = IKE_MSG_FROM_PEER, IKE_INFO_NOTIFY
ISAKMP (0:1): Old State = IKE_P1_COMPLETE
New State = IKE_P1_COMPLETE
ISAKMP (0:1): DPD/R_U_THERE received from peer 172.18.124.96,
sequence 0xA5A4632A
ISAKMP: set new node 760238809 to QM_IDLE
ISAKMP (0:1): sending packet to 172.18.124.96 my_port 500
peer_port 500 (R) QM_IDLE
ISAKMP (0:1): purging node 760238809
ISAKMP (0:1): Input = IKE_MSG_FROM_PEER,
IKE_MSG_KEEP_ALIVE
ISAKMP (0:1): Old State = IKE_P1_COMPLETE
New State = IKE_P1_COMPLETE
ISAKMP (0:1): purging node 188739171
ISAKMP (0:1): purging node -1836135476
ISAKMP (0:1): purging node -1171731793
3640#

```

## 클라이언트 로그

로그를 보려면 VPN 클라이언트에서 LogViewer를 시작하고 구성된 모든 클래스에 대해 필터가 High로 설정되어 있는지 확인합니다. 샘플 로그 출력이 아래에 나와 있습니다.

```

1      10:24:17.492  02/26/02  Sev=Info/6      DIALER/0x63300002
Initiating connection.

2      10:24:17.492  02/26/02  Sev=Info/4      CM/0x63100002
Begin connection process

3      10:24:17.512  02/26/02  Sev=Info/4      CM/0x63100004
Establish secure connection using Ethernet

4      10:24:17.512  02/26/02  Sev=Info/4      CM/0x63100026
Attempt connection with server "172.18.124.159"

5      10:24:17.512  02/26/02  Sev=Info/6      IKE/0x6300003B
Attempting to establish a connection with 172.18.124.159.

6      10:24:17.562  02/26/02  Sev=Info/4      IKE/0x63000013
SENDING >>> ISAKMP OAK AG (SA, KE, NON, ID, VID, VID, VID)
to 172.18.124.159

7      10:24:17.962  02/26/02  Sev=Info/4      IPSEC/0x63700014
Deleted all keys

```

8 10:24:18.223 02/26/02 Sev=Info/5 IKE/0x6300002F  
Received ISAKMP packet: peer = 172.18.124.159

9 10:24:18.223 02/26/02 Sev=Info/4 IKE/0x63000014  
RECEIVING <<< ISAKMP OAK AG (SA, VID, VID, VID, VID, KE,  
ID, NON, HASH) from\$

10 10:24:18.223 02/26/02 Sev=Info/5 IKE/0x63000059  
Vendor ID payload = 12F5F28C457168A9702D9FE274CC0100

11 10:24:18.223 02/26/02 Sev=Info/5 IKE/0x63000001  
Peer is a Cisco-Unity compliant peer

12 10:24:18.223 02/26/02 Sev=Info/5 IKE/0x63000059  
Vendor ID payload = AFCAD71368A1F1C96B8696FC77570100

13 10:24:18.223 02/26/02 Sev=Info/5 IKE/0x63000001  
Peer supports DPD

14 10:24:18.223 02/26/02 Sev=Info/5 IKE/0x63000059  
Vendor ID payload = 4C72E0B594C3C20DFCB7F4419CCEB0BE

15 10:24:18.223 02/26/02 Sev=Info/5 IKE/0x63000059  
Vendor ID payload = 09002689DFD6B712

16 10:24:18.263 02/26/02 Sev=Info/4 IKE/0x63000013  
SENDING >>> ISAKMP OAK AG \*(HASH, NOTIFY:STATUS\_INITIAL\_CONTACT)  
to 172.18.1\$

17 10:24:18.283 02/26/02 Sev=Info/5 IKE/0x6300002F  
Received ISAKMP packet: peer = 172.18.124.159

18 10:24:18.283 02/26/02 Sev=Info/4 IKE/0x63000014  
RECEIVING <<< ISAKMP OAK INFO \*(HASH, NOTIFY:STATUS\_RESP\_LIFETIME)  
from 172.\$

19 10:24:18.283 02/26/02 Sev=Info/5 IKE/0x63000044  
RESPONDER-LIFETIME notify has value of 86400 seconds

20 10:24:18.283 02/26/02 Sev=Info/5 IKE/0x63000046  
This SA has already been alive for 1 seconds, setting expiry to 86399 seconds\$

21 10:24:18.303 02/26/02 Sev=Info/5 IKE/0x6300002F  
Received ISAKMP packet: peer = 172.18.124.159

22 10:24:18.303 02/26/02 Sev=Info/4 IKE/0x63000014  
RECEIVING <<< ISAKMP OAK TRANS \*(HASH, ATTR) from 172.18.124.159

23 10:24:18.303 02/26/02 Sev=Info/4 CM/0x63100015  
Launch xAuth application

24 10:24:20.546 02/26/02 Sev=Info/4 CM/0x63100017  
xAuth application returned

25 10:24:20.546 02/26/02 Sev=Info/4 IKE/0x63000013  
SENDING >>> ISAKMP OAK TRANS \*(HASH, ATTR) to 172.18.124.159

26 10:24:20.566 02/26/02 Sev=Info/5 IKE/0x6300002F  
Received ISAKMP packet: peer = 172.18.124.159

27 10:24:20.566 02/26/02 Sev=Info/4 IKE/0x63000014  
RECEIVING <<< ISAKMP OAK TRANS \*(HASH, ATTR) from 172.18.124.159

28 10:24:20.566 02/26/02 Sev=Info/4 CM/0x6310000E  
Established Phase 1 SA. 1 Phase 1 SA in the system

29 10:24:20.576 02/26/02 Sev=Info/4 IKE/0x63000013  
SENDING >>> ISAKMP OAK TRANS \*(HASH, ATTR) to 172.18.124.159

30 10:24:20.586 02/26/02 Sev=Info/4 IKE/0x63000013  
SENDING >>> ISAKMP OAK TRANS \*(HASH, ATTR) to 172.18.124.159

31 10:24:20.636 02/26/02 Sev=Info/5 IKE/0x6300002F  
Received ISAKMP packet: peer = 172.18.124.159

32 10:24:20.636 02/26/02 Sev=Info/4 IKE/0x63000014  
RECEIVING <<< ISAKMP OAK TRANS \*(HASH, ATTR) from 172.18.124.159

33 10:24:20.636 02/26/02 Sev=Info/5 IKE/0x63000010  
MODE\_CFG\_REPLY: Attribute = INTERNAL\_IPV4\_ADDRESS: , value = 14.1.1.102

34 10:24:20.636 02/26/02 Sev=Info/5 IKE/0x63000010  
MODE\_CFG\_REPLY: Attribute = INTERNAL\_IPV4\_DNS(1): , value = 14.38.100.10

35 10:24:20.636 02/26/02 Sev=Info/5 IKE/0x63000010  
MODE\_CFG\_REPLY: Attribute = INTERNAL\_IPV4\_NBNS(1) (a.k.a. WINS) : , value = \$

36 10:24:20.636 02/26/02 Sev=Info/5 IKE/0xA3000017  
MODE\_CFG\_REPLY: The received (INTERNAL\_ADDRESS\_EXPIRY) attribute and value (\$

37 10:24:20.636 02/26/02 Sev=Info/5 IKE/0x6300000E  
MODE\_CFG\_REPLY: Attribute = APPLICATION\_VERSION, value = Cisco Internetwork \$  
IOS (tm) C2600 Software (C2600-JK903S-M), Version 12.2(8)T, RELEASE SOFTWARE \$  
TAC Support: <http://www.cisco.com/tac>  
Copyright (c) 1986-2002 by cisco Systems, Inc.  
Compiled Thu 14-Feb-02 16:50 by ccai

38 10:24:20.636 02/26/02 Sev=Info/5 IKE/0x6300000E  
MODE\_CFG\_REPLY: Attribute = MODECFG\_UNITY\_DEFDOMAIN: , value = cisco.com

39 10:24:20.646 02/26/02 Sev=Info/4 CM/0x63100019  
Mode Config data received

40 10:24:20.676 02/26/02 Sev=Info/5 IKE/0x63000055  
Received a key request from Driver for IP address 172.18.124.159, GW IP = 17\$

41 10:24:20.676 02/26/02 Sev=Info/4 IKE/0x63000013  
SENDING >>> ISAKMP OAK QM \*(HASH, SA, NON, ID, ID) to 172.18.124.159

42 10:24:20.676 02/26/02 Sev=Info/5 IKE/0x63000055  
Received a key request from Driver for IP address 10.10.10.255, GW IP = 172.\$

43 10:24:20.676 02/26/02 Sev=Info/4 IKE/0x63000013  
SENDING >>> ISAKMP OAK QM \*(HASH, SA, NON, ID, ID) to 172.18.124.159

44 10:24:20.967 02/26/02 Sev=Info/4 IPSEC/0x63700014  
Deleted all keys

45 10:24:20.987 02/26/02 Sev=Info/5 IKE/0x6300002F  
Received ISAKMP packet: peer = 172.18.124.159

46 10:24:20.987 02/26/02 Sev=Info/4 IKE/0x63000014  
RECEIVING <<< ISAKMP OAK QM \*(HASH, SA, NON, ID,  
ID, NOTIFY:STATUS\_RESP\_LIFE\$

47 10:24:20.987 02/26/02 Sev=Info/5 IKE/0x63000044  
RESPONDER-LIFETIME notify has value of 3600 seconds

48 10:24:20.987 02/26/02 Sev=Info/5 IKE/0x63000045  
RESPONDER-LIFETIME notify has value of 4608000 kb

49 10:24:20.987 02/26/02 Sev=Info/4 IKE/0x63000013  
SENDING >>> ISAKMP OAK QM \*(HASH) to 172.18.124.159

50 10:24:20.987 02/26/02 Sev=Info/5 IKE/0x63000058  
Loading IPsec SA (Message ID = 0x49D93B33 OUTBOUND SPI = 0x4637A127 INBOUND \$

51 10:24:20.987 02/26/02 Sev=Info/5 IKE/0x63000025  
Loaded OUTBOUND ESP SPI: 0x4637A127

52 10:24:20.987 02/26/02 Sev=Info/5 IKE/0x63000026  
Loaded INBOUND ESP SPI: 0xCE633EA8

53 10:24:20.987 02/26/02 Sev=Info/4 CM/0x6310001A  
One secure connection established

54 10:24:21.017 02/26/02 Sev=Info/6 DIALER/0x63300003  
Connection established.

55 10:24:21.357 02/26/02 Sev=Info/6 DIALER/0x63300008  
MAPI32 Information - Outlook not default mail client

56 10:24:21.617 02/26/02 Sev=Info/5 IKE/0x6300002F  
Received ISAKMP packet: peer = 172.18.124.159

57 10:24:21.617 02/26/02 Sev=Info/4 IKE/0x63000014  
RECEIVING <<< ISAKMP OAK QM \*(HASH, SA, NON, ID,  
ID, NOTIFY:STATUS\_RESP\_LIFE\$

58 10:24:21.617 02/26/02 Sev=Info/5 IKE/0x63000044  
RESPONDER-LIFETIME notify has value of 3600 seconds

59 10:24:21.617 02/26/02 Sev=Info/5 IKE/0x63000045  
RESPONDER-LIFETIME notify has value of 4608000 kb

60 10:24:21.617 02/26/02 Sev=Info/4 IKE/0x63000013  
SENDING >>> ISAKMP OAK QM \*(HASH) to 172.18.124.159

61 10:24:21.617 02/26/02 Sev=Info/5 IKE/0x63000058  
Loading IPsec SA (Message ID = 0x41AC9838 OUTBOUND SPI = 0x287931C6 INBOUND \$

62 10:24:21.617 02/26/02 Sev=Info/5 IKE/0x63000025  
Loaded OUTBOUND ESP SPI: 0x287931C6

63 10:24:21.617 02/26/02 Sev=Info/5 IKE/0x63000026  
Loaded INBOUND ESP SPI: 0x26EC8782

64 10:24:21.617 02/26/02 Sev=Info/4 CM/0x63100022  
Additional Phase 2 SA established.

65 10:24:21.617 02/26/02 Sev=Info/5 IKE/0x63000055  
Received a key request from Driver for IP address 14.38.100.10, GW IP = 172.\$

66 10:24:21.617 02/26/02 Sev=Info/4 IKE/0x63000013  
SENDING >>> ISAKMP OAK QM \*(HASH, SA, NON, ID, ID) to 172.18.124.159

67 10:24:21.948 02/26/02 Sev=Info/5 IKE/0x6300002F  
Received ISAKMP packet: peer = 172.18.124.159

68 10:24:21.948 02/26/02 Sev=Info/4 IKE/0x63000014  
RECEIVING <<< ISAKMP OAK QM \*(HASH, SA, NON, ID,

ID, NOTIFY:STATUS\_RESP\_LIFE\$

```
69      10:24:21.948  02/26/02  Sev=Info/5      IKE/0x63000044
RESPONDER-LIFETIME notify has value of 3600 seconds

70      10:24:21.948  02/26/02  Sev=Info/5      IKE/0x63000045
RESPONDER-LIFETIME notify has value of 4608000 kb

71      10:24:21.948  02/26/02  Sev=Info/4      IKE/0x63000013
SENDING >>> ISAKMP OAK QM *(HASH) to 172.18.124.159

72      10:24:21.948  02/26/02  Sev=Info/5      IKE/0x63000058
Loading IPsec SA (Message ID = 0xCDC476F0 OUTBOUND SPI = 0xFDE4BA9C INBOUND $

73      10:24:21.948  02/26/02  Sev=Info/5      IKE/0x63000025
Loaded OUTBOUND ESP SPI: 0xFDE4BA9C

74      10:24:21.948  02/26/02  Sev=Info/5      IKE/0x63000026
Loaded INBOUND ESP SPI: 0xDEA46284

75      10:24:21.948  02/26/02  Sev=Info/4      CM/0x63100022
Additional Phase 2 SA established.

76      10:24:22.248  02/26/02  Sev=Info/4      IPSEC/0x63700010
Created a new key structure

77      10:24:22.248  02/26/02  Sev=Info/4      IPSEC/0x6370000F
Added key with SPI=0x27a13746 into key list

78      10:24:22.248  02/26/02  Sev=Info/4      IPSEC/0x63700010
Created a new key structure

79      10:24:22.248  02/26/02  Sev=Info/4      IPSEC/0x6370000F
Added key with SPI=0xa83e63ce into key list

80      10:24:22.248  02/26/02  Sev=Info/4      IPSEC/0x63700010
81      10:24:22.248  02/26/02  Sev=Info/4      IPSEC/0x6370000F
Added key with SPI=0xc6317928 into key list

82      10:24:22.248  02/26/02  Sev=Info/4      IPSEC/0x63700010
Created a new key structure

83      10:24:22.248  02/26/02  Sev=Info/4      IPSEC/0x6370000F
Added key with SPI=0x8287ec26 into key list

84      10:24:22.248  02/26/02  Sev=Info/4      IPSEC/0x63700010
Created a new key structure

85      10:24:22.248  02/26/02  Sev=Info/4      IPSEC/0x6370000F
Added key with SPI=0x9cbae4fd into key list

86      10:24:22.248  02/26/02  Sev=Info/4      IPSEC/0x63700010
Created a new key structure

87      10:24:22.248  02/26/02  Sev=Info/4      IPSEC/0x6370000F
Added key with SPI=0x8462a4de into key list
```

## [관련 정보](#)

- [Cisco VPN 3000 Concentrator 제품 지원](#)
- [Cisco VPN 3000 클라이언트 제품 지원](#)
- [IPSec 협상/IKE 프로토콜 기술 지원](#)

- [기술 지원 및 문서 - Cisco Systems](#)