

IOS Router: Easy VPN (EzVPN) with Network–Extension Mode (NEM) Configuration Example

Document ID: 69352

Introduction

Prerequisites

- Requirements
- Components Used
- Conventions

Configure

- Network Diagram
- Configurations

Verify

- Cisco 7200 Easy VPN Server show Commands and Sample Output
- Cisco 871W Easy VPN Remote show Commands and Sample Output

Troubleshoot

- Easy VPN Server Commands
- Easy VPN Remote Commands

NetPro Discussion Forums – Featured Conversations

Related Information

Introduction

This document provides a sample configuration for IPsec between a Cisco 871 router and a Cisco 7200VXR router using Easy VPN (EzVPN). The 7200 acts as the Easy VPN Server and the 871 acts as the Easy VPN Remote. In this example, the loopback interfaces are used on both routers as private networks. These can be replaced by other interfaces such as FastEthernet or Serial interfaces as required.

In order to configure IPsec between a PIX/ASA 7.x and a Cisco 871 router using Easy VPN, refer to PIX/ASA 7.x Easy VPN with an ASA 5500 as the Server and Cisco 871 as the Easy VPN Remote Configuration Example.

In order to configure IPsec between the Cisco IOS® Easy VPN Remote Hardware Client and the PIX Easy VPN Server, refer to IOS Easy VPN Remote Hardware Client to a PIX Easy VPN Server Configuration Example.

In order to configure a Cisco IOS router as an EzVPN in Network Extension Mode (NEM) that connects to a Cisco VPN 3000 Concentrator, refer to Configuring the Cisco EzVPN Client on Cisco IOS with the VPN 3000 Concentrator.

Prerequisites

Requirements

Ensure that you have a basic understanding of IPsec and the Cisco 7200/871 operating systems before you attempt this configuration.

Components Used

The information in this document is based on these software and hardware versions:

- Cisco Easy VPN Server is a 7200 router (VXR) that runs Cisco IOS® Software Release 12.4(4)T1
- Cisco Easy VPN Remote is a 871W router that runs Cisco IOS Software Release 12.4(2)T1

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

Refer to Cisco Technical Tips Conventions for more information on document conventions.

Configure

In this section, you are presented with the information to configure the features described in this document.

Note: Use the Command Lookup Tool (registered customers only) to find more information on the commands used in this document.

Network Diagram

This document uses this network setup:



Note: Loopback interfaces are simulating the inside PCs.

Configurations

This document uses these configurations:

- 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 vpnggrp
  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 <name> 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

```

Verify

Use these sections to confirm that your configuration works properly.

- Cisco 7200 Easy VPN Server show Commands and Sample Output
- Cisco 871W Easy VPN Remote show Commands and Sample Output

The Output Interpreter Tool (registered customers only) (OIT) supports certain **show** commands. Use the OIT to view an analysis of **show** command output.

Cisco 7200 Easy VPN Server show Commands and Sample Output

- **show crypto isakmp sa** Displays all current Internet Key Exchange (IKE) security associations (SA) at a peer.

```

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** Displays IPsec SAs built between peers.

```

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 Commands and Sample Output

- **show crypto isakmp sa** Displays all current IKE SAs at a peer.

```

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** Displays IPsec SAs built between peers.

```

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** Displays the Cisco Easy VPN Remote configuration.

```

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

```

Troubleshoot

Use this section to troubleshoot your configuration.

The Output Interpreter Tool (registered customers only) (OIT) supports certain **show** commands. Use the OIT to view an analysis of **show** command output.

Note: Refer to Important Information on Debug Commands before you use **debug** commands.

If you have set up the Easy VPN Remote and Easy VPN Server as this document describes and you still experience problems, gather the **debug** output from each device and the output from the **show** commands for analysis by Cisco Technical Support.

These sections display **debug** commands and sample output:

- Easy VPN Server Commands
- Easy VPN Remote Commands

Easy VPN Server Commands

- **debug crypto ipsec** Displays the IPsec negotiations of Phase 2.
- **debug crypto isakmp** Displays the ISAKMP negotiations of Phase 1.

```
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): 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_MSG_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_MSG_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_MSG_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_MSG_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_MESG_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
butconfig 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_MESG_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_MESG_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_E

```

```

*May 4 00:45:02.033: ISAKMP:(1008):Old State = IKE_QM_READY New State = IKE_QM_SPI_STARV
*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
*May 4 00:45:02.033: ISAKMP:(1008):Old State = IKE_QM_SPI_STARVE New State = IKE_QM_R_QM
*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

*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 Commands

- **debug crypto ipsec** Displays the IPsec negotiations of Phase 2.
- **debug crypto isakmp** Displays the ISAKMP negotiations of Phase 1.

```

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
*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: <omitted>
```

```
*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
*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]
Copyright (c) 1986-2006 by Cisco Systems, Inc.
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): ,
(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)
*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_MSG_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_MSG_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)
*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
```

NetPro Discussion Forums – Featured Conversations

Networking Professionals Connection is a forum for networking professionals to share questions, suggestions, and information about networking solutions, products, and technologies. The featured links are some of the most recent conversations available in this technology.

NetPro Discussion Forums – Featured Conversations for VPN
Service Providers: VPN Service Architectures
Service Providers: Network Management
Virtual Private Networks: General

Related Information

- [Cisco Easy VPN Product Support](#)
- [IOS Router: Easy VPN \(EzVPN\) in Network–Extension Mode \(NEM\) with Split tunnelling Configuration Example](#)
- [Cisco VPN Client](#)
- [IPsec Negotiation/IKE Protocols](#)
- [Technical Support & Documentation – Cisco Systems](#)

[Contacts & Feedback](#) | [Help](#) | [Site Map](#)

© 2008 – 2009 Cisco Systems, Inc. All rights reserved. [Terms & Conditions](#) | [Privacy Statement](#) | [Cookie Policy](#) | [Trademarks of Cisco Systems, Inc.](#)

Updated: Apr 13, 2009

Document ID: 69352