

# Cisco IOS路由器 — 使用NEM配置EzVPN

## 目录

[简介](#)

[先决条件](#)

[要求](#)

[使用的组件](#)

[规则](#)

[配置](#)

[网络图](#)

[配置](#)

[验证](#)

[Cisco 7200 Easy VPN 服务器 show 命令和示例输出](#)

[Cisco 871W Easy VPN Remote show 命令和示例输出](#)

[故障排除](#)

[Easy VPN 服务器命令](#)

[Easy VPN Remote 命令](#)

[相关信息](#)

## 简介

本文档提供了使用 Easy VPN (EzVPN) 在 Cisco 871 路由器和 Cisco 7200VXR 路由器之间配置 IPsec 的示例配置。7200 充当 Easy VPN 服务器，871 充当 Easy VPN Remote。在本示例中，环回接口在两个路由器上用作专用网络。可根据需要将这些接口替换为其他接口，例如，FastEthernet 或串行接口。

要使用 Easy VPN 在 PIX/ASA 7.x 和 Cisco 871 路由器之间配置 IPsec，请参阅[将 ASA 5500 用作服务器，将 Cisco 871 用作 Easy VPN Remote 的 PIX/ASA 7.x Easy VPN 配置示例](#)。

要在 Cisco IOS® Easy VPN Remote Hardware Client 和 PIX Easy VPN 服务器之间配置 IPsec，请参阅[IOS Easy VPN Remote Hardware Client 到 PIX Easy VPN 服务器配置示例](#)。

要在[网络扩展模式 \(NEM\)](#) 下将 Cisco IOS 路由器配置为连接到 Cisco VPN 3000 集中器的 EzVPN，请参阅[使用 VPN 3000 集中器在 Cisco IOS 上配置 Cisco EzVPN Client](#)。

## 先决条件

### 要求

在尝试此配置之前，请确保您基本了解 IPsec 和 Cisco 7200/871 操作系统。

### 使用的组件

本文档中的信息基于以下软件和硬件版本：

- Cisco Easy VPN 服务器是运行 Cisco IOS® 软件版本 12.4(4)T1 的 7200 路由器 (VXR)
- Cisco Easy VPN Remote 是运行 Cisco IOS 软件版本 12.4(2)T1 的 871W 路由器

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您使用的是真实网络，请确保您已经了解所有命令的潜在影响。

## 规则

有关文档规则的详细信息，请参阅 [Cisco 技术提示规则](#)。

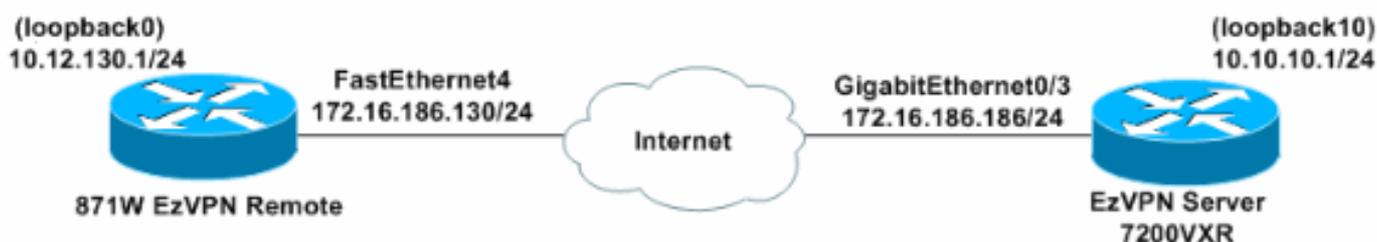
## 配置

本部分提供有关如何配置本文档所述功能的信息。

**注意：**使用[命令查找工具](#)([仅限注册客户](#))可查找有关本文档中使用的命令的详细信息。

## 网络图

本文档使用以下网络设置：



**注意：**环回接口正在模拟内部PC。

## 配置

本文档使用以下配置：

- [Easy VPN 服务器 \( Cisco 7200VXR 路由器 \)](#)
- [Easy VPN Remote \( Cisco 871W 路由器 \)](#)

### Easy VPN 服务器 ( Cisco 7200VXR 路由器 )

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

Current configuration : 2059 bytes
!
version 12.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname 3-07-07-7200VXR
```

```
!  
boot-start-marker  
boot-end-marker  
!  
!  
!--- Enable Authentication, Authorizing and Accounting  
(AAA) !--- for user authentication and group  
authorization. aaa new-model  
!  
!--- Enable the AAA commands in order !--- to enable  
Xauth for user authentication. aaa authentication login  
userauthen local  
!--- Enable the AAA commands !--- in order to enable  
group authorization. aaa authorization network  
groupauthor local  
!  
aaa session-id common  
!  
resource policy  
!  
ip subnet-zero  
ip cef  
!  
!  
!--- Define the username and password to use for Xauth.  
username cisco password 0 cisco123  
!  
!  
!--- Create an Internet Security Association and !---  
Key Management Protocol (ISAKMP) policy for Phase 1  
negotiations. crypto isakmp policy 3  
encr 3des  
authentication pre-share  
group 2  
!  
!  
!--- Create a group with the pre-shared key for IKE  
authentication. crypto isakmp client configuration group  
vpngrp  
key cisco123  
!  
!  
!--- Create the Phase 2 policy for actual data  
encryption. crypto ipsec transform-set myset esp-3des  
esp-sha-hmac  
!  
!--- Create a dynamic map and !--- apply the transform  
set that was created earlier. crypto dynamic-map dynmap  
10  
set transform-set myset  
!  
!  
!--- Create the actual crypto map, !--- and apply the  
AAA lists that were created earlier. !--- These commands  
associate the AAA commands to the crypto map. crypto map  
clientmap client authentication list userauthen  
crypto map clientmap isakmp authorization list  
groupauthor  
crypto map clientmap 10 ipsec-isakmp dynamic dynmap  
!  
!
```

```
!  
interface Loopback10  
  ip address 10.10.10.1 255.255.255.0  
!  
interface GigabitEthernet0/1  
  ip address 158.100.101.254 255.255.255.0  
  ip nat inside  
  ip virtual-reassembly  
  duplex auto  
  speed auto  
  media-type rj45  
  no negotiation auto  
!  
interface GigabitEthernet0/2  
  ip address 158.100.102.254 255.255.255.0  
  ip nat outside  
  ip virtual-reassembly  
  duplex auto  
  speed 100  
  media-type rj45  
  no negotiation auto  
!  
!  
!  
!--- Apply the crypto map on the interface where !---  
traffic leaves the router. interface GigabitEthernet0/3  
ip address 172.16.186.186 255.255.255.0  
  duplex auto  
  speed auto  
  media-type rj45  
  no negotiation auto  
  crypto map clientmap  
!  
interface FastEthernet1/0  
  no ip address  
  shutdown  
  duplex half  
!  
ip default-gateway 172.16.186.1  
ip classless  
ip route 0.0.0.0 0.0.0.0 172.16.186.1  
no ip http server  
no ip http secure-server  
!  
!  
ip nat Stateful id 10  
ip nat pool honnat 158.100.96.90 158.100.96.99 netmask  
255.255.255.0  
ip nat inside source route-map test pool honnat mapping-  
id 10 overload  
!  
logging alarm informational  
access-list 100 permit ip any any  
!  
route-map test permit 10  
  match ip address 100  
!  
!  
!  
!  
control-plane  
!  
!  
!
```

```
!  
!  
!  
gatekeeper  
  shutdown  
!  
!  
line con 0  
  logging synchronous  
  stopbits 1  
line aux 0  
  stopbits 1  
line vty 0 4  
!  
!  
end
```

### Easy VPN Remote ( Cisco 871W 路由器 )

```
3-03-06-871W#show running-config  
Current configuration : 1563 bytes  
!  
version 12.4  
no service pad  
service timestamps debug datetime msec  
service timestamps log datetime msec  
service password-encryption  
!  
hostname 3-03-06-871W  
!  
boot-start-marker  
boot-end-marker  
!  
!  
no aaa new-model  
!  
resource policy  
!  
ip cef  
!  
!  
!  
ip name-server 171.70.168.183  
!  
!  
username cisco privilege 15 password 7 00071A150754  
!  
!  
!  
!  
!--- Set the parameters to connect to the !---  
appropriate Easy VPN group on the Easy VPN server.  
crypto ipsec client ezvpn ez  
  connect auto  
  group vpngrp key cisco123  
  mode network-extension  
  peer 172.16.186.186  
  xauth userid mode interactive  
!  
!  
!  
!--- Define the inside interfaces that will access !---
```

*and can be accessed via Easy VPN.* interface Loopback0

```
ip address 10.12.130.1 255.255.255.255
crypto ipsec client ezvpn ez inside
```

```
!
interface FastEthernet0
!
interface FastEthernet1
!
interface FastEthernet2
!
interface FastEthernet3
```

*!--- Use the crypto ipsec client ezvpn*

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

```
interface FastEthernet4
 ip address 172.16.186.130 255.255.255.0
 duplex auto
 speed auto
 crypto ipsec client ezvpn ez
!
interface Dot11Radio0
 no ip address
 shutdown
 speed basic-1.0 basic-2.0 basic-5.5 6.0 9.0 basic-11.0
 12.0 18.0 24.0 36.0 48.0 54.0
 station-role root
!
interface Vlan1
 no ip address
!
ip default-gateway 172.16.186.1
ip route 0.0.0.0 0.0.0.0 172.16.186.1
!
!
no ip http server
no ip http secure-server
!
access-list 121 dynamic testlist permit tcp any host
12.12.12.12 eq 5900
snmp-server community presto RW
!
!
!
route-map polo permit 10
!
route-map asa permit 10
!
tacacs-server host 66.94.234.13
tacacs-server directed-request
!
control-plane
!
!
line con 0
 no modem enable
line aux 0
line vty 0 4
```

```
login
!
scheduler max-task-time 5000
!
webvpn context Default_context
  ssl authenticate verify all
!
no inservice
!
end
```

## 验证

使用以下各部分可确认您的配置是否正常运行。

- [Cisco 7200 Easy VPN 服务器 show 命令和示例输出](#)
- [Cisco 871W Easy VPN Remote show 命令和示例输出](#)

[命令输出解释程序 \(仅限注册用户\) \(OIT\) 支持某些 show 命令。](#) 使用 OIT 可查看对 show 命令输出的分析。

## [Cisco 7200 Easy VPN 服务器 show 命令和示例输出](#)

- **show crypto isakmp sa - 显示对等体上的所有当前 Internet 密钥交换 (IKE) 安全关联 (SA)。**

```
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 - 显示对等体之间构建的 IPsec SA。**

```
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 命令和示例输出](#)

- **show crypto isakmp sa - 显示对等体上的所有当前 IKE SA。**

```

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 - 显示对等体之间构建的 IPsec SA。**

```

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 - 显示 Cisco Easy VPN Remote 配置。**

```
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

## 故障排除

使用本部分可排除配置故障。

[命令输出解释程序 \( 仅限注册用户 \) \(OIT\) 支持某些 show 命令。](#) 使用 OIT 可查看对 show 命令输出的分析。

**注意：**在使用[debug命令之前](#)，[请参阅](#)有关Debug命令的重要信息。

如果已根据本文档所述内容设置了 Easy VPN Remote 和 Easy VPN 服务器，但是仍然遇到问题，请收集每个设备的 **debug 输出**和 **show 命令**的输出，以供 Cisco 技术支持部门进行分析。

以下部分显示了 **debug 命令**和**示例输出**：

- [Easy VPN 服务器命令](#)
- [Easy VPN Remote 命令](#)

## Easy VPN 服务器命令

- **debug crypto ipsec** - 显示第 2 阶段的 IPsec 协商。
- **debug crypto isakmp** - 显示第 1 阶段的 ISAKMP 协商。

```
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

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*May 4 00:44:20.941: ISAKMP:      hash MD5
*May 4 00:44:20.941: ISAKMP:      default group 2
*May 4 00:44:20.941: ISAKMP:      auth pre-share
*May 4 00:44:20.941: ISAKMP:      life type in seconds
*May 4 00:44:20.941: ISAKMP:      life duration (VPI) of  0x0 0x20 0xC4 0x9B
*May 4 00:44:20.941: ISAKMP:(0):Encryption algorithm offered does not match policy!
*May 4 00:44:20.941: ISAKMP:(0):atts are not acceptable. Next payload is 3
*May 4 00:44:20.941: ISAKMP:(0):Checking ISAKMP transform 11 against priority 3 policy
*May 4 00:44:20.941: ISAKMP:      encryption AES-CBC
*May 4 00:44:20.941: ISAKMP:      keylength of 256
*May 4 00:44:20.941: ISAKMP:      hash SHA
*May 4 00:44:20.941: ISAKMP:      default group 2
*May 4 00:44:20.941: ISAKMP:      auth pre-share
*May 4 00:44:20.941: ISAKMP:      life type in seconds
*May 4 00:44:20.941: ISAKMP:      life duration (VPI) of  0x0 0x20 0xC4 0x9B
*May 4 00:44:20.941: ISAKMP:(0):Encryption algorithm offered does not match policy!
*May 4 00:44:20.941: ISAKMP:(0):atts are not acceptable. Next payload is 3
*May 4 00:44:20.941: ISAKMP:(0):Checking ISAKMP transform 12 against priority 3 policy
*May 4 00:44:20.941: ISAKMP:      encryption AES-CBC
*May 4 00:44:20.941: ISAKMP:      keylength of 256
*May 4 00:44:20.941: ISAKMP:      hash MD5
*May 4 00:44:20.941: ISAKMP:      default group 2
*May 4 00:44:20.941: ISAKMP:      auth pre-share
*May 4 00:44:20.941: ISAKMP:      life type in seconds
*May 4 00:44:20.941: ISAKMP:      life duration (VPI) of  0x0 0x20 0xC4 0x9B
*May 4 00:44:20.941: ISAKMP:(0):Encryption algorithm offered does not match policy!
*May 4 00:44:20.941: ISAKMP:(0):atts are not acceptable. Next payload is 3
*May 4 00:44:20.941: ISAKMP:(0):Checking ISAKMP transform 13 against priority 3 policy
*May 4 00:44:20.941: ISAKMP:      encryption 3DES-CBC
*May 4 00:44:20.941: ISAKMP:      hash SHA
*May 4 00:44:20.941: ISAKMP:      default group 2
*May 4 00:44:20.941: ISAKMP:      auth XAUTHInitPreShared
*May 4 00:44:20.941: ISAKMP:      life type in seconds
*May 4 00:44:20.941: ISAKMP:      life duration (VPI) of  0x0 0x20 0xC4 0x9B
*May 4 00:44:20.941: ISAKMP:(0):atts are acceptable. Next payload is 3
*May 4 00:44:20.941: ISAKMP:(0): processing vendor id payload
*May 4 00:44:20.941: ISAKMP:(0): vendor ID seems Unity/DPD but major 245 mismatch
*May 4 00:44:20.941: ISAKMP (0:0): vendor ID is NAT-T v7
*May 4 00:44:20.941: ISAKMP:(0): processing vendor id payload
*May 4 00:44:20.941: ISAKMP:(0): vendor ID seems Unity/DPD but major 157 mismatch
*May 4 00:44:20.941: ISAKMP:(0): vendor ID is NAT-T v3
*May 4 00:44:20.941: ISAKMP:(0): processing vendor id payload
*May 4 00:44:20.941: ISAKMP:(0): vendor ID seems Unity/DPD but major 123 mismatch
*May 4 00:44:20.941: ISAKMP:(0): vendor ID is NAT-T v2
*May 4 00:44:20.941: ISAKMP:(0): processing KE payload. message ID = 0
*May 4 00:44:20.957: ISAKMP:(0): processing NONCE payload. message ID = 0
*May 4 00:44:20.957: ISAKMP:(0): processing vendor id payload
*May 4 00:44:20.957: ISAKMP:(0): vendor ID is DPD
*May 4 00:44:20.957: ISAKMP:(0): processing vendor id payload
*May 4 00:44:20.957: ISAKMP:(0): vendor ID seems Unity/DPD but major 79 mismatch
*May 4 00:44:20.957: ISAKMP:(0): vendor ID is XAUTH
*May 4 00:44:20.957: ISAKMP:(0): processing vendor id payload
*May 4 00:44:20.957: ISAKMP:(0): claimed IOS but failed authentication
*May 4 00:44:20.957: ISAKMP:(0): processing vendor id payload
*May 4 00:44:20.957: ISAKMP:(0): vendor ID is Unity
*May 4 00:44:20.957: ISAKMP:(0):Input = IKE_MESG_FROM_PEER, IKE_AM_EXCH
*May 4 00:44:20.957: ISAKMP:(0):Old State = IKE_READY  New State = IKE_R_AM_AAA_AWAIT

*May 4 00:44:20.957: ISAKMP:(1008): constructed NAT-T vendor-07 ID
*May 4 00:44:20.957: ISAKMP:(1008):SA is doing pre-shared key authentication
                        plus XAUTH using id type ID_IPV4_ADDR
*May 4 00:44:20.957: ISAKMP (0:1008): ID payload
                        next-payload : 10
                        type       : 1
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        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\_MSG\_FROM\_PEER, IKE\_CFG\_REQUEST \*May 4 00:45:02.009: ISAKMP:(1008):Old State = IKE\_P1\_COMPLETE New State = IKE\_CONFIG\_AUTHOR\_AAA\_AWAIT \*May 4 00:45:02.009: ISAKMP:(1008):Receive config attributes requested 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\_MSG\_FROM\_AAA, IKE\_AAA\_GROUP\_ATTR \*May 4 00:45:02.009: ISAKMP:(1008):Old State = IKE\_CONFIG\_AUTHOR\_AAA\_AWAIT New State = IKE\_P1\_COMPLETE \*May 4 00:45:02.009: ISAKMP:(1008):Input = IKE\_MSG\_INTERNAL, IKE\_PHASE1\_COMPLETE \*May 4 00:45:02.009: ISAKMP:(1008):Old State = IKE\_P1\_COMPLETE New State = IKE\_P1\_COMPLETE \*May 4 00:45:02.029: ISAKMP (0:1008): received packet from 172.16.186.130 dport 500 sport 500 Global (R) QM\_IDLE \*May 4 00:45:02.029: ISAKMP: set new node -1665883002 to QM\_IDLE \*May 4 00:45:02.029: ISAKMP:(1008): processing HASH payload. message ID = -1665883002 \*May 4 00:45:02.029: ISAKMP:(1008): processing SA payload. message ID = -1665883002 \*May 4 00:45:02.029: ISAKMP:(1008):Checking IPsec proposal 1 \*May 4 00:45:02.029: ISAKMP: transform 1, ESP\_AES \*May 4 00:45:02.029: ISAKMP: attributes in transform: \*May 4 00:45:02.029: ISAKMP: encaps is 1 (Tunnel) \*May 4 00:45:02.029: ISAKMP: SA life type in seconds \*May 4 00:45:02.029: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B \*May 4 00:45:02.029: ISAKMP: SA life type in kilobytes \*May 4 00:45:02.029: ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0 \*May 4 00:45:02.029: ISAKMP: authenticator is HMAC-SHA \*May 4 00:45:02.029: ISAKMP: key length is 128 \*May 4 00:45:02.029: ISAKMP:(1008):atts are acceptable. \*May 4 00:45:02.029: IPSEC(validate\_proposal\_request): proposal part #1 \*May 4 00:45:02.029: IPSEC(validate\_proposal\_request): proposal part #1, (key eng. msg.) INBOUND local= 172.16.186.186, remote= 172.16.186.130, local\_proxy= 0.0.0.0/0.0.0.0/0 (type=4), remote\_proxy= 10.12.130.1/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-aes esp-sha-hmac (Tunnel), lifedur= 0s and 0kb, spi= 0x0(0), conn\_id= 0, keysize= 128, flags= 0x0 \*May 4 00:45:02.029: IPSEC(crypto\_ipsec\_process\_proposal): transform proposal not supported for identity: {esp-aes esp-sha-hmac } \*May 4 00:45:02.029: ISAKMP:(1008): IPsec policy invalidated proposal \*May 4 00:45:02.029: ISAKMP:(1008):Checking IPsec proposal 2 \*May 4 00:45:02.029: ISAKMP: transform 1, ESP\_AES \*May 4 00:45:02.029: ISAKMP: attributes in transform: \*May 4 00:45:02.029: ISAKMP: encaps is 1 (Tunnel) \*May 4 00:45:02.029: ISAKMP: SA life type in seconds \*May 4 00:45:02.029: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B \*May 4 00:45:02.029: ISAKMP: SA life type in kilobytes \*May 4 00:45:02.029: ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0 \*May 4 00:45:02.029: ISAKMP: authenticator is HMAC-MD5 \*May 4 00:45:02.029:

ISAKMP: key length is 128 \*May 4 00:45:02.029: ISAKMP:(1008):atts are acceptable. \*May 4 00:45:02.029: IPSEC(validate\_proposal\_request): proposal part #1 \*May 4 00:45:02.029: IPSEC(validate\_proposal\_request): proposal part #1, (key eng. msg.) INBOUND local=172.16.186.186, remote= 172.16.186.130, local\_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), remote\_proxy=10.12.130.1/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-aes esp-md5-hmac (Tunnel), lifedur= 0s and 0kb, spi= 0x0(0), conn\_id= 0, keysize= 128, flags= 0x0 \*May 4 00:45:02.029: IPSEC(crypto\_ipsec\_process\_proposal): transform proposal not supported for identity: {esp-aes esp-md5-hmac } \*May 4 00:45:02.029: ISAKMP:(1008): IPSec policy invalidated proposal \*May 4 00:45:02.029: ISAKMP:(1008):Checking IPSec proposal 3 \*May 4 00:45:02.029: ISAKMP: transform 1, ESP\_AES \*May 4 00:45:02.029: ISAKMP: attributes in transform: \*May 4 00:45:02.029: ISAKMP: encaps is 1 (Tunnel) \*May 4 00:45:02.029: ISAKMP: SA life type in seconds \*May 4 00:45:02.029: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B \*May 4 00:45:02.029: ISAKMP: SA life type in kilobytes \*May 4 00:45:02.029: ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0 \*May 4 00:45:02.029: ISAKMP: authenticator is HMAC-SHA \*May 4 00:45:02.029: ISAKMP: key length is 192 \*May 4 00:45:02.029: ISAKMP:(1008):atts are acceptable. \*May 4 00:45:02.029: IPSEC(validate\_proposal\_request): proposal part #1 \*May 4 00:45:02.029: IPSEC(validate\_proposal\_request): proposal part #1, (key eng. msg.) INBOUND local=172.16.186.186, remote= 172.16.186.130, local\_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), remote\_proxy=10.12.130.1/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-aes 192 esp-sha-hmac (Tunnel), lifedur= 0s and 0kb, spi= 0x0(0), conn\_id= 0, keysize= 192, flags= 0x0 \*May 4 00:45:02.029: IPSEC(crypto\_ipsec\_process\_proposal): transform proposal not supported for identity: {esp-aes 192 esp-sha-hmac } \*May 4 00:45:02.029: ISAKMP:(1008): IPSec policy invalidated proposal \*May 4 00:45:02.029: ISAKMP:(1008):Checking IPSec proposal 4 \*May 4 00:45:02.029: ISAKMP: transform 1, ESP\_AES \*May 4 00:45:02.029: ISAKMP: attributes in transform: \*May 4 00:45:02.029: ISAKMP: encaps is 1 (Tunnel) \*May 4 00:45:02.029: ISAKMP: SA life type in seconds \*May 4 00:45:02.029: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B \*May 4 00:45:02.029: ISAKMP: SA life type in kilobytes \*May 4 00:45:02.029: ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0 \*May 4 00:45:02.029: ISAKMP: authenticator is HMAC-MD5 \*May 4 00:45:02.029: ISAKMP: key length is 192 \*May 4 00:45:02.029: ISAKMP:(1008):atts are acceptable. \*May 4 00:45:02.029: IPSEC(validate\_proposal\_request): proposal part #1 \*May 4 00:45:02.029: IPSEC(validate\_proposal\_request): proposal part #1, (key eng. msg.) INBOUND local=172.16.186.186, remote= 172.16.186.130, local\_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), remote\_proxy=10.12.130.1/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-aes 192 esp-md5-hmac (Tunnel), lifedur= 0s and 0kb, spi= 0x0(0), conn\_id= 0, keysize= 192, flags= 0x0 \*May 4 00:45:02.029: IPSEC(crypto\_ipsec\_process\_proposal): transform proposal not supported for identity: {esp-aes 192 esp-md5-hmac } \*May 4 00:45:02.029: ISAKMP:(1008): IPSec policy invalidated proposal \*May 4 00:45:02.029: ISAKMP:(1008):Checking IPSec proposal 5 \*May 4 00:45:02.029: ISAKMP: transform 1, ESP\_AES \*May 4 00:45:02.029: ISAKMP: attributes in transform: \*May 4 00:45:02.029: ISAKMP: encaps is 1 (Tunnel) \*May 4 00:45:02.029: ISAKMP: SA life type in seconds \*May 4 00:45:02.029: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B \*May 4 00:45:02.029: ISAKMP: SA life type in kilobytes \*May 4 00:45:02.029: ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0 \*May 4 00:45:02.029: ISAKMP: authenticator is HMAC-SHA \*May 4 00:45:02.033: ISAKMP: key length is 256 \*May 4 00:45:02.033: ISAKMP:(1008):atts are acceptable. \*May 4 00:45:02.033: IPSEC(validate\_proposal\_request): proposal part #1 \*May 4 00:45:02.033: IPSEC(validate\_proposal\_request): proposal part #1, (key eng. msg.) INBOUND local=172.16.186.186, remote= 172.16.186.130, local\_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), remote\_proxy=10.12.130.1/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-aes 256 esp-sha-hmac (Tunnel), lifedur= 0s and 0kb, spi= 0x0(0), conn\_id= 0, keysize= 256, flags= 0x0 \*May 4 00:45:02.033: IPSEC(crypto\_ipsec\_process\_proposal): transform proposal not supported for identity: {esp-aes 256 esp-sha-hmac } \*May 4 00:45:02.033: ISAKMP:(1008): IPSec policy invalidated proposal \*May 4 00:45:02.033: ISAKMP:(1008):Checking IPSec proposal 6 \*May 4 00:45:02.033: ISAKMP: transform 1, ESP\_AES \*May 4 00:45:02.033: ISAKMP: attributes in transform: \*May 4 00:45:02.033: ISAKMP: encaps is 1 (Tunnel) \*May 4 00:45:02.033: ISAKMP: SA life type in seconds \*May 4 00:45:02.033: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B \*May 4 00:45:02.033: ISAKMP: SA life type in kilobytes \*May 4 00:45:02.033: ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0 \*May 4 00:45:02.033: ISAKMP: authenticator is HMAC-MD5 \*May 4 00:45:02.033: ISAKMP: key length is 256 \*May 4 00:45:02.033: ISAKMP:(1008):atts are acceptable. \*May 4 00:45:02.033: IPSEC(validate\_proposal\_request): proposal part #1 \*May 4 00:45:02.033: IPSEC(validate\_proposal\_request): proposal part #1, (key eng. msg.) INBOUND local=172.16.186.186, remote= 172.16.186.130, local\_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), remote\_proxy=10.12.130.1/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-aes 256 esp-md5-hmac (Tunnel), lifedur= 0s and 0kb, spi= 0x0(0), conn\_id= 0, keysize= 256, flags= 0x0 \*May 4 00:45:02.033: IPSEC(crypto\_ipsec\_process\_proposal): transform proposal not supported for identity: {esp-aes 256 esp-md5-hmac } \*May 4 00:45:02.033: ISAKMP:(1008): IPSec policy

```

invalidated proposal *May 4 00:45:02.033: ISAKMP:(1008):Checking IPsec proposal 7 *May 4
00:45:02.033: ISAKMP: transform 1, ESP_3DES *May 4 00:45:02.033: ISAKMP: attributes in
transform: *May 4 00:45:02.033: ISAKMP: encaps is 1 (Tunnel) *May 4 00:45:02.033: ISAKMP: SA
life type in seconds *May 4 00:45:02.033: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
*May 4 00:45:02.033: ISAKMP: SA life type in kilobytes *May 4 00:45:02.033: ISAKMP: SA life
duration (VPI) of 0x0 0x46 0x50 0x0 *May 4 00:45:02.033: ISAKMP: authenticator is HMAC-SHA *May
4 00:45:02.033: ISAKMP:(1008):atts are acceptable. *May 4 00:45:02.033:
IPSEC(validate_proposal_request): proposal part #1 *May 4 00:45:02.033:
IPSEC(validate_proposal_request): proposal part #1, (key eng. msg.) INBOUND local=
172.16.186.186, remote= 172.16.186.130, local_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), remote_proxy=
10.12.130.1/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-3des esp-sha-hmac
(Tunnel), lifedur= 0s and 0kb, spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x0 *May 4
00:45:02.033: ISAKMP:(1008): processing NONCE payload. message ID = -1665883002 *May 4
00:45:02.033: ISAKMP:(1008): processing ID payload. message ID = -1665883002 *May 4
00:45:02.033: ISAKMP:(1008): processing ID payload. message ID = -1665883002 *May 4
00:45:02.033: ISAKMP:(1008): asking for 1 spis from ipsec *May 4 00:45:02.033:
ISAKMP:(1008):Node -1665883002, Input = IKE_MSG_FROM_PEER, IKE_QM_EXCH *May 4 00:45:02.033:
ISAKMP:(1008):Old State = IKE_QM_READY New State = IKE_QM_SPI_STARVE *May 4 00:45:02.033:
IPSEC(key_engine): got a queue event with 1 KMI message(s) *May 4 00:45:02.033:
IPSEC(spi_response): getting spi 1752561220 for SA from 172.16.186.186 to 172.16.186.130 for
prot 3 *May 4 00:45:02.033: ISAKMP:(1008): Creating IPsec SAs *May 4 00:45:02.033: inbound SA
from 172.16.186.130 to 172.16.186.186 (f/i) 0/ 0 (proxy 10.12.130.1 to 0.0.0.0) *May 4
00:45:02.033: has spi 0x6875F644 and conn_id 0 *May 4 00:45:02.033: lifetime of 2147483 seconds
*May 4 00:45:02.033: lifetime of 4608000 kilobytes *May 4 00:45:02.033: outbound SA from
172.16.186.186 to 172.16.186.130 (f/i) 0/0 (proxy 0.0.0.0 to 10.12.130.1) *May 4 00:45:02.033:
has spi 0x29354010 and conn_id 0 *May 4 00:45:02.033: lifetime of 2147483 seconds *May 4
00:45:02.033: lifetime of 4608000 kilobytes *May 4 00:45:02.033: ISAKMP:(1008): sending packet
to 172.16.186.130 my_port 500 peer_port 500 (R) QM_IDLE *May 4 00:45:02.033: ISAKMP:(1008):Node
-1665883002, Input = IKE_MSG_FROM_IPSEC, IKE_SPI_REPLY *May 4 00:45:02.033: ISAKMP:(1008):Old
State = IKE_QM_SPI_STARVE New State = IKE_QM_R_QM2 *May 4 00:45:02.033: IPSEC(key_engine): got a
queue event with 1 KMI message(s) *May 4 00:45:02.033: IPsec: Flow_switching Allocated flow for
sibling 80000007 *May 4 00:45:02.033: IPSEC(policy_db_add_ident): src 0.0.0.0, dest 10.12.130.1,
dest_port 0 *May 4 00:45:02.033: IPSEC(create_sa): sa created, (sa) sa_dest= 172.16.186.186,
sa_proto= 50, sa_spi= 0x6875F644(1752561220), sa_trans= esp-3des esp-sha-hmac , sa_conn_id= 11
*May 4 00:45:02.033: IPSEC(create_sa): sa created, (sa) sa_dest= 172.16.186.130, sa_proto= 50,
sa_spi= 0x29354010(691355664), sa_trans= esp-3des esp-sha-hmac , sa_conn_id= 12 *May 4
00:45:02.045: ISAKMP (0:1008): received packet from 172.16.186.130 dport 500 sport 500 Global
(R) QM_IDLE *May 4 00:45:02.045: ISAKMP:(1008):deleting node -1665883002 error FALSE reason "QM
done (await)" *May 4 00:45:02.045: ISAKMP:(1008):Node -1665883002, Input = IKE_MSG_FROM_PEER,
IKE_QM_EXCH *May 4 00:45:02.045: ISAKMP:(1008):Old State = IKE_QM_R_QM2 New State =
IKE_QM_PHASE2_COMPLETE *May 4 00:45:02.045: IPSEC(key_engine): got a queue event with 1 KMI
message(s) *May 4 00:45:02.045: IPSEC(key_engine_enable_outbound): rec'd enable notify from
ISAKMP *May 4 00:45:02.045: IPSEC(key_engine_enable_outbound): enable SA with spi 691355664/50

```

## Easy VPN Remote 命令

- debug crypto ipsec - 显示第 2 阶段的 IPsec 协商。
- debug crypto isakmp - 显示第 1 阶段的 ISAKMP 协商。

```

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:

```
*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]

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

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

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

*Jun 3 06:02:46.522: IPSEC(sa_request): ,
    (key eng. msg.) OUTBOUND local= 172.16.186.130, remote= 172.16.186.186,
    local_proxy= 10.12.130.1/255.255.255.255/0/0 (type=1),
    remote_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4),
    protocol= ESP, transform= NONE (Tunnel),
    lifedur= 2147483s and 4608000kb,
    spi= 0xA0FC0985(2700872069), conn_id= 0, keysize= 128, flags= 0x2000
*Jun 3 06:02:46.522: IPSEC(sa_request): ,
    (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_MESG_INTERNAL,
IKE_INIT_QM
*Jun 3 06:02:46.530: ISAKMP:(2008):Old State = IKE_QM_READY New State = IKE_QM_I_QM1
*Jun 3 06:02:46.538: ISAKMP (0:2008): received packet from 172.16.186.186
dport 500 sport 500 Global (I) QM_IDLE
*Jun 3 06:02:46.538: ISAKMP:(2008): processing HASH payload. message ID = -1665883002
*Jun 3 06:02:46.538: ISAKMP:(2008): processing SA payload. message ID = -1665883002
*Jun 3 06:02:46.538: ISAKMP:(2008):Checking IPsec proposal 1
*Jun 3 06:02:46.538: ISAKMP: transform 1, ESP_3DES
*Jun 3 06:02:46.538: ISAKMP: attributes in transform:
*Jun 3 06:02:46.538: ISAKMP: encaps is 1 (Tunnel)
```

```

*Jun 3 06:02:46.538: ISAKMP: SA life type in seconds
*Jun 3 06:02:46.538: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
*Jun 3 06:02:46.538: ISAKMP: SA life type in kilobytes
*Jun 3 06:02:46.538: ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0
*Jun 3 06:02:46.542: ISAKMP: authenticator is HMAC-SHA
*Jun 3 06:02:46.542: ISAKMP:(2008):atts are acceptable.
*Jun 3 06:02:46.542: IPSEC(validate_proposal_request): proposal part #1
*Jun 3 06:02:46.542: IPSEC(validate_proposal_request): proposal part #1,
(key eng. msg.) INBOUND local= 172.16.186.130, remote= 172.16.186.186,
local_proxy= 10.12.130.1/255.255.255.255/0/0 (type=1),
remote_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4),
protocol= ESP, transform= esp-3des esp-sha-hmac (Tunnel),
lifedur= 0s and 0kb,
spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x0
*Jun 3 06:02:46.542: Crypto mapdb : proxy_match
src addr : 10.12.130.1
dst addr : 0.0.0.0
protocol : 0
src port : 0
dst port : 0
*Jun 3 06:02:46.542: ISAKMP:(2008): processing NONCE payload. message ID = -1665883002
*Jun 3 06:02:46.542: ISAKMP:(2008): processing ID payload. message ID = -1665883002
*Jun 3 06:02:46.542: ISAKMP:(2008): processing ID payload. message ID = -1665883002
*Jun 3 06:02:46.542: ISAKMP:(2008): processing NOTIFY RESPONDER_LIFETIME protocol 3
spi 1752561220, message ID = -1665883002, sa = 83BCC9DC
*Jun 3 06:02:46.542: ISAKMP:(2008):SA authentication status:
authenticated
*Jun 3 06:02:46.542: ISAKMP:(2008): processing responder lifetime
*Jun 3 06:02:46.542: ISAKMP (2008): responder lifetime of 3600s
*Jun 3 06:02:46.542: ISAKMP:(2008): Creating IPsec SAs
*Jun 3 06:02:46.542: inbound SA from 172.16.186.186 to 172.16.186.130 (f/i) 0/ 0
(proxy 0.0.0.0 to 10.12.130.1)
*Jun 3 06:02:46.542: has spi 0x29354010 and conn_id 0
*Jun 3 06:02:46.542: lifetime of 3590 seconds
*Jun 3 06:02:46.542: lifetime of 4608000 kilobytes
*Jun 3 06:02:46.546: outbound SA from 172.16.186.130 to 172.16.186.186 (f/i) 0/0
(proxy 10.12.130.1 to 0.0.0.0)
*Jun 3 06:02:46.546: has spi 0x6875F644 and conn_id 0
*Jun 3 06:02:46.546: lifetime of 3590 seconds
*Jun 3 06:02:46.546: lifetime of 4608000 kilobytes
*Jun 3 06:02:46.546: ISAKMP:(2008): sending packet to 172.16.186.186
my_port 500 peer_port 500 (I) QM_IDLE
*Jun 3 06:02:46.546: ISAKMP:(2008):deleting node -1665883002 error FALSE
reason "No Error"
*Jun 3 06:02:46.546: ISAKMP:(2008):Node -1665883002, Input = IKE_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
```

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- [Cisco Easy VPN 产品支持](#)
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