عميل LAN-to-LAN و EzVPN على PIX لوصول عميل VPN إلى موجه حرة باستخدام مثال تكوين توصيفات ISAKMP

المحتويات

المقدمة

يقدم هذا المستند نموذجا لتكوين أنفاق IPsec باستخدام ملفات تعريف ISAKMP على موجه موجه موجه موجه موجه موجه مع موقعين PIX عن بعد. يتكون أحد مواقع PIX البعيدة من شبكة LAN إلى شبكة LAN بينما يتكون الآخر من تكوين وضع الوصول عن بعد ل EzVPN. يتم تكوين موجه الموزع للمصادقة المحلية لأنفاق EzVPN ومصادقة RADIUS لعميل VPN للبرنامج.

المتطلبات الأساسية

المتطلبات

لا توجد متطلبات خاصة لهذا المستند.

المكونات المستخدمة

تستند المعلومات الواردة في هذا المستند إلى إصدارات البرامج والمكونات المادية التالية:

- جهاز جدار حماية Cisco Secure PIX 501 الذي يشغل 6.3(3)
- الموجه 1750 من Cisco الذي يعمل ببرنامج Cisco IOS® Software، الإصدار 12.3.9a
- جهاز جدار حماية Cisco Secure PIX 506 الذي يشغل الإصدار 6.3(3)
- عميل شبكة VPN من Cisco الذي يشغل الإصدار 4.0 (REL) (مصادقة المستخدم باستخدام خادم RADIUS)

تم إنشاء المعلومات الواردة في هذا المستند من الأجهزة الموجودة في بيئة معملية خاصة. بدأت جميع الأجهزة المُستخدمة في هذا المستند بتكوين ممسوح (افتراضي). إذا كانت شبكتك مباشرة، فتأكد من فهمك للتأثير المحتمل لأي أمر.

الاصطلاحات

راجع اصطلاحات تلميحات Cisco التقنية للحصول على مزيد من المعلومات حول اصطلاحات المستندات.

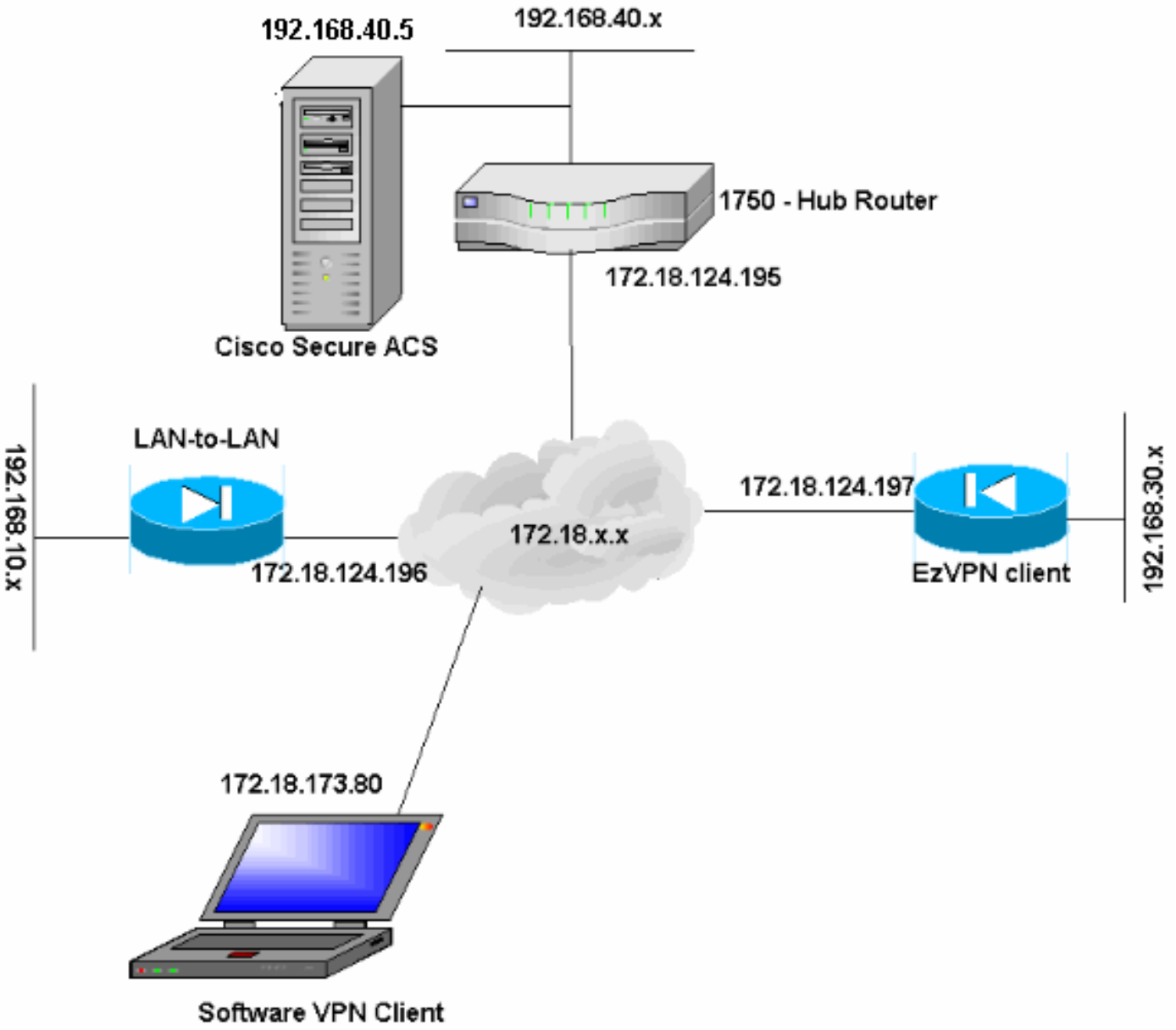
التكوين

في هذا القسم، تُقدّم لك معلومات تكوين الميزات الموضحة في هذا المستند.

ملاحظة: أستخدم أداة بحث الأوامر (للعملاء المسجلين فقط) للعثور على معلومات إضافية حول الأوامر المستخدمة في هذا المستند.

الرسم التخطيطي للشبكة

يستخدم هذا المستند إعداد الشبكة التالي:



التكوينات

يستخدم هذا المستند التكوينات التالية:

- الموجه VPN 1750 Hub Router
- الطراز PIX-501 - من شبكة LAN إلى شبكة LAN
- PIX-506-B - عميل EzVPN
- عميل شبكة VPN

الموجه VPN 1750 Hub Router
version 12.3 service timestamps debug datetime msec service timestamps log datetime msec no service password-encryption ! hostname **VPN1750** *Local authentication username and password, for ---!*

```
EzVPN Client. username jerry password 0 wells123
username cisco password 0 letmein
Enable AAA. aaa new-model ---!
!
!

Default local login. aaa authentication login ---!
default local

RADIUS authentication for VPN Client. aaa ---!
authentication login userauth group radius local

Local authentication for EzVPN Client. aaa ---!
authentication login EZVPN local
aaa authorization exec default local

Local group authorization for VPN Client. aaa ---!
authorization network groupauthor local

Local authorization for EzVPN Client. aaa ---!
authorization network EZVPN local
aaa session-id common
ip subnet-zero
!
!
ip domain name cisco.com
!
ip cef
ip audit po max-events 100

Keyring specification for Phase 1 authentication. ---!
crypto keyring vpn
pre-shared-key address 172.18.124.196 key cisco123
!

Specify ISAKMP policy. crypto isakmp policy 20 ---!
encr 3des
hash md5
authentication pre-share
group 2
!

EzVPN Client configuration that specifies the ---!
group, key and IP pool to use. crypto isakmp client
configuration group polo
key mark123
pool ezpool
!

VPN Client configuration that specifies the group, ---!
key and IP pool to use. crypto isakmp client
configuration group tennis
key matchpoint
domain cisco.com
pool vpnpool

ISAKMP profile specification for LAN-to-LAN. crypto ---!
isakmp profile l2lvpn
keyring vpn
match identity address 172.18.124.196 255.255.255.255

ISAKMP profile specification for EzVPN Client. ---!
crypto isakmp profile ezvpnprofile
match identity group polo
```

```
                        client authentication list EZVPN
                        isakmp authorization list EZVPN
                        client configuration address respond

      ISAKMP profile specification for software VPN ---!
                Client. crypto isakmp profile softclient
                                match identity group tennis
                        client authentication list userauth
                      isakmp authorization list groupauthor
                        client configuration address respond
                                                        !
                                                        !

Set tranform-set. crypto ipsec transform-set pix501 ---!
                                        esp-3des esp-sha-hmac
  crypto ipsec transform-set vpnclient esp-3des esp-sha-
                                                      hmac
  crypto ipsec transform-set ezvpn esp-3des esp-md5-hmac
                                                        !

   Specify crypto map set and ISAKMP profile for VPN ---!
                    Client. crypto dynamic-map rtpmap 10
                                set transform-set vpnclient
                              set isakmp-profile softclient

Specify crypto map set and ISAKMP profile for EzVPN ---!
                    Client. crypto dynamic-map rtpmap 20
                                        set transform-set ezvpn
                                set isakmp-profile ezvpnprofile
                                                        !
                                                        !
            crypto map rtp 5 ipsec-isakmp dynamic rtpmap

 Specify crypto map set and ISAKMP profile for LAN- ---!
                    to-LAN. crypto map rtp 10 ipsec-isakmp
                                        set peer 172.18.124.196
                                    set transform-set pix501
                                set isakmp-profile l2lvpn
                                        match address 101
                                                        !
                                                        !
                                                        !
                                        interface Ethernet0
                    ip address 192.168.40.1 255.255.255.0
                                                        !
                                        interface FastEthernet0
                  ip address 172.18.124.195 255.255.255.0
                                                speed auto

   Apply crypto map on the outside interface. crypto ---!
                                                  map rtp
                                                        !

    VPN Client pool addresses. ip local pool vpnpool ---!
                                        10.50.50.1 10.50.50.10

   EzVPN Client pool addresses. ip local pool ezpool ---!
                                    172.25.70.1 172.25.70.10
                                                ip classless
                    ip route 0.0.0.0 0.0.0.0 172.18.124.1
                                                        !

   Encryption access-list applied to the crypto map. ---!
        access-list 101 permit ip 192.168.40.0 0.0.0.255
```

```
192.168.10.0 0.0.0.255
!

Define ACS server for VPN Client user ---!
authentication. radius-server host 192.168.40.5 auth-
port 1645 acct-port 1646 key cisco123
!
line con 0
exec-timeout 0 0
line aux 0
line vty 0 4
!
end
```

الطراز PIX-501 - من شبكة LAN إلى شبكة LAN

```
(PIX Version 6.3(3
interface ethernet0 auto
interface ethernet1 100full
nameif ethernet0 outside security0
nameif ethernet1 inside security100
enable password 8Ry2YjIyt7RRXU24 encrypted
passwd 2KFQnbNIdI.2KYOU encrypted
hostname PIX-501
domain-name cisco.com
fixup protocol dns maximum-length 512
fixup protocol ftp 21
fixup protocol h323 h225 1720
fixup protocol h323 ras 1718-1719
fixup protocol http 80
fixup protocol rsh 514
fixup protocol rtsp 554
fixup protocol sip 5060
fixup protocol sip udp 5060
fixup protocol skinny 2000
fixup protocol smtp 25
fixup protocol sqlnet 1521
fixup protocol tftp 69
names

Encryption access-list for interesting traffic to ---!
be encrypted. access-list 101 permit ip 192.168.10.0
255.255.255.0 192.168.40.0 255.255.255.0

NAT 0 access-list for encryption traffic to bypass ---!
NAT process. access-list nonat permit ip 192.168.10.0
255.255.255.0 192.168.40.0 255.255.255.0
pager lines 24
mtu outside 1500
mtu inside 1500
ip address outside 172.18.124.196 255.255.255.0
ip address inside 192.168.10.1 255.255.255.0
ip audit info action alarm
ip audit attack action alarm
pdm history enable
arp timeout 14400
global (outside) 1 interface

Bypass NAT for IPsec traffic. nat (inside) 0 ---!
access-list nonat
nat (inside) 1 192.168.10.0 255.255.255.0 0 0
route outside 0.0.0.0 0.0.0.0 172.18.124.1 1
timeout xlate 3:00:00
```

```
timeout conn 1:00:00 half-closed 0:10:00 udp 0:02:00 rpc
                                                0:10:00 h225 1:00:00
 timeout h323 0:05:00 mgcp 0:05:00 sip 0:30:00 sip_media
                                                0:02:00
                          timeout uauth 0:05:00 absolute
                      +aaa-server TACACS+ protocol tacacs
                        aaa-server RADIUS protocol radius
                          aaa-server LOCAL protocol local
                                       floodguard enable

    This command avoids applied ACLs or conduits on ---!
       encrypted packets. sysopt connection permit-ipsec

       Configuration of IPsec Phase 2. crypto ipsec ---!
                 transform-set fox esp-3des esp-sha-hmac
                         crypto map fox 10 ipsec-isakmp
                    crypto map fox 10 match address 101
                crypto map fox 10 set peer 172.18.124.195
                  crypto map fox 10 set transform-set fox
                       crypto map fox interface outside

      Configuration of IPsec Phase 1. isakmp enable ---!
                                                 outside

   IKE pre-shared key used by peers to authenticate. ---!
      isakmp key ******** address 172.18.124.195 netmask
                                          255.255.255.255
                                isakmp identity address
              isakmp policy 10 authentication pre-share
                       isakmp policy 10 encryption 3des
                          isakmp policy 10 hash md5
                            isakmp policy 10 group 2
                       isakmp policy 10 lifetime 86400
                                    telnet timeout 5
                                       ssh timeout 5
                                  console timeout 0
                                  terminal width 80
         Cryptochecksum:9e09996cdf390036841e71da006ba1f1
                                                end :
```

PIX-506-B - عميل EzVPN

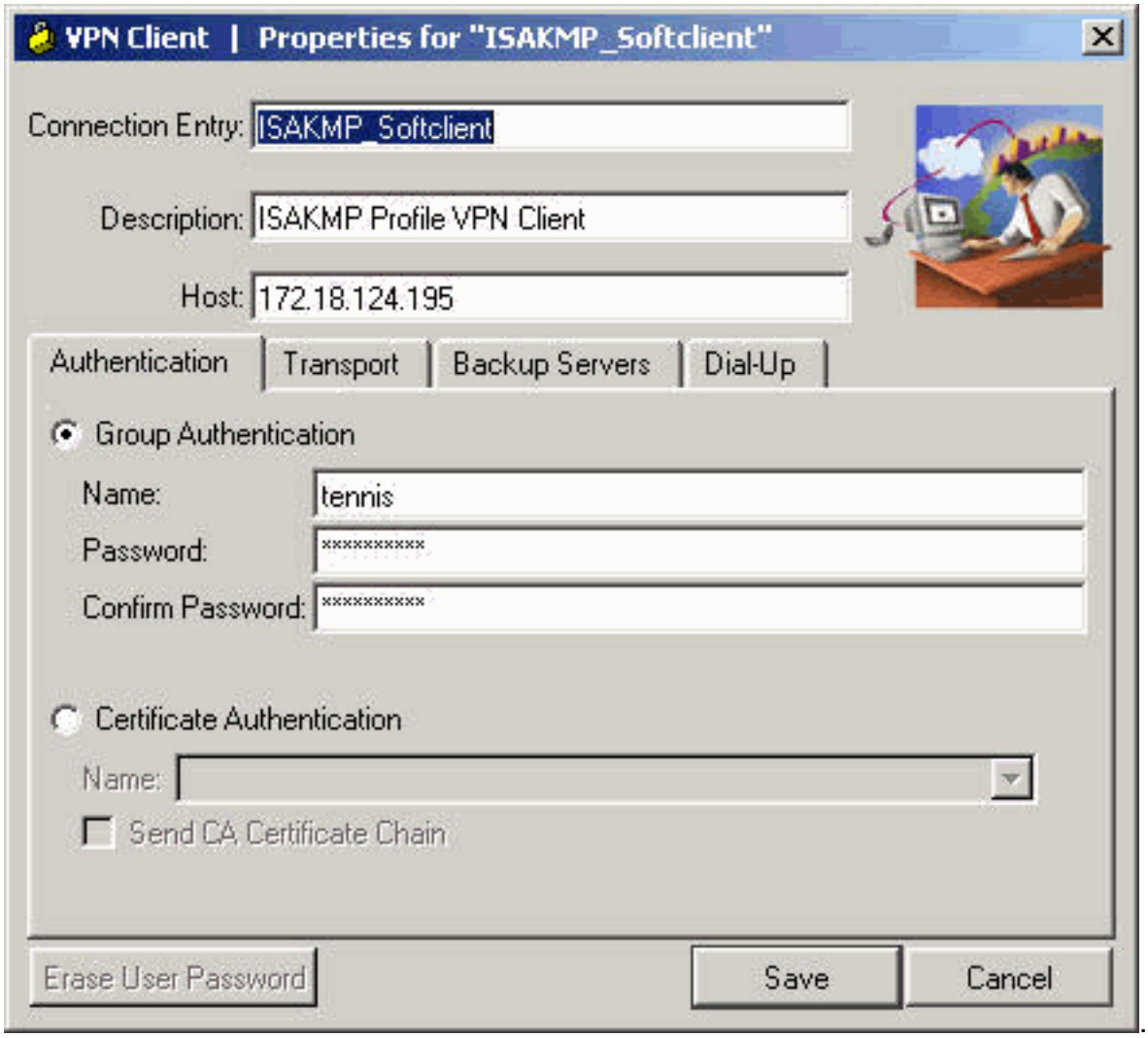
```
                                       (PIX Version 6.3(3
                                 interface ethernet0 auto
                                 interface ethernet1 auto
                          nameif ethernet0 outside security0
                        nameif ethernet1 inside security100
                 enable password 8Ry2YjIyt7RRXU24 encrypted
                          passwd 2KFQnbNIdI.2KYOU encrypted
                                       hostname PIX-506-B
                     fixup protocol dns maximum-length 512
                                    fixup protocol ftp 21
                          fixup protocol h323 h225 1720
                        fixup protocol h323 ras 1718-1719
                                  fixup protocol http 80
                                  fixup protocol rsh 514
                                 fixup protocol rtsp 554
                                 fixup protocol sip 5060
                             fixup protocol sip udp 5060
                              fixup protocol skinny 2000
                                  fixup protocol smtp 25
                              fixup protocol sqlnet 1521
                                  fixup protocol tftp 69
```

```
                                                    names
                                                  pager lines 24
                                                 mtu outside 1500
                                                  mtu inside 1500

        Define IP addresses for the PIX's inside and ---!
    outside interfaces. ip address outside 172.18.124.197
                                                    255.255.255.0
            ip address inside 192.168.30.1 255.255.255.0
                                      ip audit info action alarm
                                   ip audit attack action alarm
                                             pdm history enable
                                              arp timeout 14400
                                  global (outside) 1 interface
              nat (inside) 1 192.168.30.0 255.255.255.0 0 0
               route outside 0.0.0.0 0.0.0.0 172.18.124.1 1
                                          timeout xlate 3:00:00
timeout conn 1:00:00 half-closed 0:10:00 udp 0:02:00 rpc
                                           0:10:00 h225 1:00:00
 timeout h323 0:05:00 mgcp 0:05:00 sip 0:30:00 sip_media
                                                    0:02:00
                                 timeout uauth 0:05:00 absolute
                          +aaa-server TACACS+ protocol tacacs
                            aaa-server RADIUS protocol radius
                              aaa-server LOCAL protocol local
                                          floodguard enable
                                 sysopt connection permit-ipsec
  crypto ipsec transform-set tiger esp-3des esp-md5-hmac
                                        telnet timeout 5
                                           ssh timeout 5
                                       console timeout 0

      Define the EzVPN server IP address. vpnclient ---!
                                        server 172.18.124.195

Specify the mode to be used (client-mode or Network ---!
              Extension Mode). vpnclient mode client-mode

      Define EzVPN connection parameters. vpnclient ---!
                          ******** vpngroup polo password
                 ******** vpnclient username jerry password

     Enable VPN Client on the PIX. vpnclient enable ---!
                                       terminal width 80
          Cryptochecksum:1bb41de13c5e15537a50cb1f39f131b9
                                                  end :
```

تكوين عميل شبكة VPN

أكمل هذه الخطوات لتكوين عميل شبكة VPN.

1. قم بتشغيل عميل VPN وإنشاء اتصال جديد بمعلمات إدخال الاتصال



المطلوبة.

2. بمجرد إنشاء إدخال الاتصال، انقر على **توصيل** ومصادقة مع معلمات المستخدم التي تم تكوينها على خادم

.RADIUS

التحقق من الصحة

يوفر هذا القسم معلومات يمكنك إستخدامها للتأكد من أن التكوين يعمل بشكل صحيح. راجع أستكشاف أخطاء أمان IP وإصلاحها - فهم أوامر تصحيح الأخطاء واستخدامها للحصول على مزيد من التحقق/أستكشاف الأخطاء وإصلاحها. إن ينبغي أنت واجهت أي VPN زبون إصدار أو خطأ، أحلت ال VPN زبون GUI خطأ أداة البحث.

يتم دعم بعض أوامر **العرض بواسطة** أداة مترجم الإخراج (العملاء المسجلون فقط)، والتي تتيح لك عرض تحليل إخراج أمر **العرض**.

- **show crypto isakmp profile**— يعرض جميع ملفات تعريف ISAKMP وتكويناتها على الموجه.
- **show crypto isakmp key**— يعرض كل حلقات المفاتيح ومفاتيحها المسبقة. أستخدم هذا الأمر للتحقق من تكوين حلقة مفاتيح التشفير على الموجه.

- **debug crypto ipSec**—يعرض معلومات حول مفاوضات IPsec SA على الموجه.
- **debug crypto isakmp**— يعرض ISAKMP SA الذي تم إنشاؤه وسمات IPsec التي تم التفاوض عليها.

وخلال مفاوضات ISAKMP بشأن الخدمات الأمنية المؤقتة، قد يرفض PIX عدة مقترحات باعتبارها "غير مقبولة" قبل قبول أي منها. بمجرد الموافقة على ISAKMP SA، يتم التفاوض على سمات IPsec.

[تصحيح أخطاء الشبكة المحلية (LAN) إلى الشبكة المحلية (LAN) على موجه محور VPN 1750 باستخدام تصحيح أخطاء تشفير ISAKMP وتصحيح أخطاء تشفير IPsec]

```
May 11 20:44:51.370: ISAKMP (0:0): received packet
from 172.18.124.196 dport 500 sport 500 Global
N) NEW SA)
May 11 20:44:51.370: ISAKMP: local port 500, remote port 500
May 11 20:44:51.370: ISAKMP: insert sa successfully sa = 81789610
May 11 20:44:51.374: ISAKMP (0:1): Input = IKE_MESG_FROM_PEER, IKE_MM_EXCH
May 11 20:44:51.374: ISAKMP (0:1): Old State = IKE_READY New State = IKE_R_MM1

May 11 20:44:51.374: ISAKMP (0:1): processing SA payload. message ID = 0
May 11 20:44:51.374: ISAKMP: Looking for a matching key for 172.18.124.196
in default
May 11 20:44:51.374: ISAKMP: Looking for a matching key for 172.18.124.196
in vpn : success
May 11 20:44:51.374: ISAKMP (0:1): found peer pre-shared key matching
172.18.124.196
May 11 20:44:51.378: ISAKMP (0:1) local preshared key found
May 11 20:44:51.378: ISAKMP : Scanning profiles for xauth ... l2lvpn ezvpnprofile
May 11 20:44:51.378: ISAKMP (0:1) Authentication by xauth preshared
May 11 20:44:51.378: ISAKMP (0:1): Checking ISAKMP transform 1 against
priority 20 policy
May 11 20:44:51.378: ISAKMP: encryption 3DES-CBC
May 11 20:44:51.378: ISAKMP: hash MD5
May 11 20:44:51.378: ISAKMP: default group 2
May 11 20:44:51.378: ISAKMP: auth pre-share
May 11 20:44:51.378: ISAKMP: life type in seconds
May 11 20:44:51.378: ISAKMP: life duration (VPI) of 0x0 0x1 0x51 0x80
May 11 20:44:51.382: ISAKMP (0:1): atts are acceptable. Next payload is 0
Phase 1 proposal accepted. May 11 20:44:51.598: ISAKMP (0:1): Input = IKE_MESG_INTERNAL, ---!
IKE_PROCESS_MAIN_MODE May 11 20:44:51.598: ISAKMP (0:1): Old State = IKE_R_MM1 New State =
IKE_R_MM1 May 11 20:44:51.602: ISAKMP (0:1): sending packet to 172.18.124.196 my_port 500
peer_port 500 (R) MM_SA_SETUP May 11 20:44:51.602: ISAKMP (0:1): Input = IKE_MESG_INTERNAL,
IKE_PROCESS_COMPLETE May 11 20:44:51.602: ISAKMP (0:1): Old State = IKE_R_MM1 New State =
IKE_R_MM2 May 11 20:44:52.130: ISAKMP (0:1): received packet from 172.18.124.196 dport 500 sport
500 Global (R) MM_SA_SETUP May 11 20:44:52.130: ISAKMP (0:1): Input = IKE_MESG_FROM_PEER,
IKE_MM_EXCH May 11 20:44:52.130: ISAKMP (0:1): Old State = IKE_R_MM2 New State = IKE_R_MM3
..... May 11 20:44:52.954: ISAKMP (0:1): processing ID payload. message ID = 0 May 11
20:44:52.954: ISAKMP (0:1): ID payload next-payload : 8 type : 1 address : 172.18.124.196
protocol : 17 port : 500 length : 12 May 11 20:44:52.958: ISAKMP (0:1): peer matches l2lvpn
profile
ISAKMP profile is matched in the router for LAN-to-LAN configuration. May 11 20:44:52.958: ---!
ISAKMP: Looking for a matching key for 172.18.124.196 in default May 11 20:44:52.958: ISAKMP:
Looking for a matching key for 172.18.124.196
in vpn : success
May 11 20:44:52.958: ISAKMP (0:1): Found ADDRESS key in keyring vpn
May 11 20:44:52.958: ISAKMP (0:1): processing HASH payload. message ID = 0
May 11 20:44:52.958: ISAKMP (0:1): SA authentication status: authenticated
Security Associations are authenticated between the peers. May 11 20:44:52.994: ISAKMP ---!
(0:1): Old State = IKE_P1_COMPLETE
New State = IKE_P1_COMPLETE
Phase 1 negotiations completed. .... May 11 20:44:53.002: ISAKMP (0:1): Checking IPSec ---!
proposal 1 May 11 20:44:53.002: ISAKMP: transform 1, ESP_3DES May 11 20:44:53.002: ISAKMP:
attributes in transform: May 11 20:44:53.002: ISAKMP: encaps is 1 (Tunnel) May 11 20:44:53.002:
```

ISAKMP: SA life type in seconds May 11 20:44:53.002: ISAKMP: SA life duration (basic) of 28800 May 11 20:44:53.002: ISAKMP: SA life type in kilobytes May 11 20:44:53.002: ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0 May 11 20:44:53.002: ISAKMP: authenticator is HMAC-SHA May 11 20:44:53.006: ISAKMP (0:1): **atts are acceptable.**
Phase 2 proposal accepted. May 11 20:44:53.006: IPSEC(validate_proposal_request): proposal *---!*
,part #1, (key eng. msg.) **INBOUND local= 172.18.124.195, remote= 172.18.124.196**
,(local_proxy= 192.168.40.0/255.255.255.0/0/0 (type=4
,(remote_proxy= 192.168.10.0/255.255.255.0/0/0 (type=4
Encryption access-list verification process. protocol= ESP, transform= esp-3des esp-sha- *---!*
hmac (Tunnel), lifedur= 0s and 0kb, spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x2 ... **May 11**
,20:44:53.282: IPSEC(create_sa): sa created
,sa) sa_dest= 172.18.124.195, sa_prot= 50)
,(sa_spi= 0xFBFA852C(4227499308
sa_trans= esp-3des esp-sha-hmac , sa_conn_id= 2000
,May 11 20:44:53.282: IPSEC(create_sa): sa created
,sa) sa_dest= 172.18.124.196, sa_prot= 50)
,(sa_spi= 0x79EFEFCE(2045767630
sa_trans= esp-3des esp-sha-hmac , sa_conn_id= 2001
SAs are created with connection IDs. May 11 20:44:53.290: ISAKMP (0:1): received packet *---!*
from 172.18.124.196 dport 500 sport 500 Global (R) **QM_IDLE**
Tunnel has been established. May 11 20:44:53.294: ISAKMP (0:1): deleting node 156512779 *---!*
error FALSE reason "quick mode done (await)" May 11 20:44:53.294: ISAKMP (0:1): Node 156512779, Input = IKE_MESG_FROM_PEER, IKE_QM_EXCH May 11 20:44:53.294: ISAKMP (0:1): Old State = IKE_QM_R_QM2

New State = IKE_QM_PHASE2_COMPLETE

.Phase 2 negotiations complete ---!

تصحيح أخطاء اتصال عميل EzVPN باستخدام IPsec و debug crypto debug

May 11 20:55:47.266: ISAKMP (0:0): received packet from 172.18.124.197 dport 500 sport 500 Global (N) NEW SA
May 11 20:55:47.266: ISAKMP: local port 500, remote port 500
May 11 20:55:47.270: ISAKMP: insert sa successfully sa = 81797590
May 11 20:55:47.270: ISAKMP (0:2): processing SA payload. message ID = 0
May 11 20:55:47.270: ISAKMP (0:2): processing ID payload. message ID = 0
May 11 20:55:47.274: ISAKMP (0:2): ID payload
next-payload : 13
type : 11
group id : **polo**
protocol : 17
port : 0
length : 12
May 11 20:55:47.274: ISAKMP (0:2): **peer matches ezvpnprofile profile**
Profile match for EzVPN Client connection. May 11 20:55:47.274: ISAKMP: Looking for a *---!*
matching key for 172.18.124.197 in default May 11 20:55:47.274: ISAKMP: Looking for a matching key for 172.18.124.197 in vpn May 11 20:55:47.274: ISAKMP: Created a peer struct for 172.18.124.197, peer port 500 May 11 20:55:47.274: ISAKMP: Locking peer struct 0x81791484, IKE refcount 1 for crypto_ikmp_config_initialize_sa ... May 11 20:55:47.282: ISAKMP (0:2): **Checking ISAKMP transform 1 against priority 20 policy**
ISAKMP policies are checked. May 11 20:55:47.282: ISAKMP: encryption AES-CBC May 11 *---!*
20:55:47.282: ISAKMP: keylength of 256 May 11 20:55:47.282: ISAKMP: hash SHA May 11 20:55:47.282: ISAKMP: default group 2 May 11 20:55:47.282: ISAKMP: auth XAUTHInitPreShared May 11 20:55:47.282: ISAKMP: life type in seconds May 11 20:55:47.282: ISAKMP: life duration (VPI) of 0x0 0x1 0x51 0x80 May 11 20:55:47.282: ISAKMP (0:2): Encryption algorithm offered does not match policy! May 11 20:55:47.286: ISAKMP (0:2): atts are not acceptable. Next payload is 3 ...
May 11 20:55:47.306: ISAKMP (0:2): Checking ISAKMP transform 8 against priority 20 policy
May 11 20:55:47.306: ISAKMP: encryption 3DES-CBC
May 11 20:55:47.306: ISAKMP: hash MD5
May 11 20:55:47.306: ISAKMP: default group 2
May 11 20:55:47.306: ISAKMP: auth XAUTHInitPreShared
May 11 20:55:47.306: ISAKMP: life type in seconds

May 11 20:55:47.310: ISAKMP: life duration (VPI) of 0x0 0x1 0x51 0x80
May 11 20:55:47.310: ISAKMP (0:2): atts are acceptable. Next payload is 3
Phase 1 attributes are validated. May 11 20:55:47.530: ISAKMP (0:2): processing KE payload. *---!*
message ID = 0 May 11 20:55:47.798: ISAKMP (0:2): processing NONCE payload. message ID = 0 May 11 20:55:47.802: ISAKMP (0:2): vendor ID is NAT-T v3 May 11 20:55:47.802: ISAKMP (0:2): vendor ID is NAT-T v2 May 11 20:55:47.802: ISAKMP (0:2): Input = IKE_MESG_FROM_PEER, IKE_AM_EXCH May 11 20:55:47.802: ISAKMP (0:2): Old State = IKE_READY New State = IKE_R_AM_AAA_AWAIT May 11 20:55:47.806: ISAKMP: got callback 1 May 11 20:55:47.810: ISAKMP (0:2): SKEYID state generated May 11 20:55:47.810: ISAKMP (0:2): constructed NAT-T vendor-03 ID May 11 20:55:47.810: ISAKMP (0:2): SA is doing pre-shared key authentication plus XAUTH using id type ID_IPV4_ADDR May 11 20:55:47.814: ISAKMP (0:2): ID payload next-payload : 10 type : 1 address : 172.18.124.195 protocol : 17 port : 0 length : 12 May 11 20:55:47.814: ISAKMP (2): Total payload length: 12 May 11 20:55:47.814: ISAKMP (0:2): sending packet to 172.18.124.197 my_port 500 peer_port 500 (R) AG_INIT_EXCH May 11 20:55:47.814: ISAKMP (0:2): Input = IKE_MESG_FROM_AAA, PRESHARED_KEY_REPLY May 11 20:55:47.818: ISAKMP (0:2): Old State = IKE_R_AM_AAA_AWAIT New State = IKE_R_AM2 May 11 20:55:49.114: ISAKMP (0:2): received packet from 172.18.124.197 dport 500 sport 500 Global (R) AG_INIT_EXCH May 11 20:55:49.114: ISAKMP:received payload type 20 May 11 20:55:49.118: ISAKMP:received payload type 20 May 11 20:55:49.118: ISAKMP (0:2): processing HASH payload. message ID = 0 May 11 20:55:49.118: ISAKMP (0:2): processing NOTIFY INITIAL_CONTACT protocol 1 spi 0, message ID = 0, sa = 81797590 **May 11 20:55:49.118: ISAKMP (0:2): SA authentication status: authenticated**
Phase 1 has been authenticated. May 11 20:55:49.118: ISAKMP (0:2): Process initial contact, *---!*
bring down existing phase 1 and 2 SA's with local 172.ication status: authenticated May 11 20:55:49.122: ISAKMP (0:2): SA has been authenticated with 172.18.124.197 May 11 20:55:49.122: ISAKMP: Trying to insert a peer 172.18.124.195/172.18.124.197/500/, and inserted successfully. May 11 20:55:49.126: ISAKMP: **set new node 1554218001 to CONF_XAUTH**
User authentication phase starts. May 11 20:55:49.126: ISAKMP (0:2): sending packet to *---!*
172.18.124.197 my_port 500 peer_port 500 (R) QM_IDLE May 11 20:55:49.126: ISAKMP (0:2): purging node 155421800118.124.195 remote 172.18.124.197 remote port 500 May 11 20:55:49.130: ISAKMP (0:2): Input = IKE_MESG_FROM_PEER, IKE_AM_EXCH May 11 20:55:49.130: ISAKMP (0:2): Old State = IKE_R_AM2 New State = IKE_P1_COMPLETE May 11 20:55:49.130: ISAKMP (0:2): **Need XAUTH**
May 11 20:55:49.130: ISAKMP (0:2): FSM action returned error: 4
May 11 20:55:49.134: ISAKMP (0:2): Input = IKE_MESG_INTERNAL, IKE_PHASE1_COMPLETE
May 11 20:55:49.134: ISAKMP (0:2): Old State = IKE_P1_COMPLETE
New State = IKE_XAUTH_AAA_START_LOGIN_AWAIT

May 11 20:55:49.134: ISAKMP: got callback 1
May 11 20:55:49.134: ISAKMP: set new node -1233989434 to CONF_XAUTH
May 11 20:55:49.134: ISAKMP/xauth: **request attribute XAUTH_USER_NAME_V2**
Username request. May 11 20:55:49.134: ISAKMP/xauth: **request attribute** *---!*
XAUTH_USER_PASSWORD_V2
Password request. May 11 20:55:49.138: ISAKMP (0:2): initiating peer config to *---!*
172.18.124.197. ID = -1233989434 May 11 20:55:49.138: ISAKMP (0:2): sending packet to 172.18.124.197 my_port 500 peer_port 500 (R) CONF_XAUTH ... May 11 20:55:51.278: ISAKMP: got callback 1 May 11 20:55:51.278: ISAKMP (0:2): attributes sent in message: May 11 20:55:51.278: Address: 240.2.112.2 May 11 20:55:51.282: ISAKMP (0:2): **allocating address 172.25.70.6**
IP address assigned to EzVPN Client from the address pool. May 11 20:55:51.282: ISAKMP: *---!*
Sending private address: 172.25.70.6 May 11 20:55:51.286: ISAKMP: Sending APPLICATION_VERSION string: Cisco Internetwork Operating System Software IOS (tm) C1700 Software (C1700-K9O3SY7-M), Version 12.3(9a), RELEASE SOFTWARE (fc4) Copyright (c) 1986-2004 by cisco Systems, Inc. Compiled Fri 23-Jul-04 02:20 by kellythw May 11 20:55:51.286: ISAKMP (0:2): responding to peer config from 172.18.124.197. ID = -591421152 May 11 20:55:51.290: ISAKMP (0:2): sending packet to 172.18.124.197 my_port 500 peer_port 500 (R) CONF_ADDR May 11 20:55:51.290: ISAKMP (0:2): deleting node -591421152 error FALSE reason "" May 11 20:55:51.290: ISAKMP (0:2): Input = IKE_MESG_FROM_AAA, IKE_AAA_GROUP_ATTR May 11 20:55:51.290: ISAKMP (0:2): Old State = IKE_CONFIG_AUTHOR_AAA_AWAIT New State = IKE_P1_COMPLETE May 11 20:55:51.294: ISAKMP (0:2): Input = IKE_MESG_INTERNAL, IKE_PHASE1_COMPLETE May 11 20:55:51.294: ISAKMP (0:2): Old State = IKE_P1_COMPLETE New State = IKE_P1_COMPLETE May 11 20:55:53.102: ISAKMP (0:2): received packet from 172.18.124.197 dport 500 sport 500 Global (R) QM_IDLE May 11 20:55:53.102: ISAKMP: set new node -183955662 to QM_IDLE ... May 11 20:55:53.178: ISAKMP (0:2): IPSec policy invalidated proposal May 11 20:55:53.178: ISAKMP (0:2): Checking IPSec proposal 8 May 11 20:55:53.178: ISAKMP: transform 1, ESP_3DES May 11 20:55:53.178: ISAKMP: attributes in transform: May 11 20:55:53.178: ISAKMP: encaps is 1 (Tunnel) May 11 20:55:53.178: ISAKMP: SA life type in seconds May 11 20:55:53.182: ISAKMP: SA life duration (basic) of 28800 May 11 20:55:53.182: ISAKMP: SA

life type in kilobytes May 11 20:55:53.182: ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0 May 11 20:55:53.182: ISAKMP: authenticator is HMAC-MD5 May 11 20:55:53.182: ISAKMP (0:2): **atts .are acceptable**

Proposals are validated. May 11 20:55:53.182: IPSEC(validate_proposal_request): proposal *---!* part #1, (key eng. msg.) INBOUND local= 172.18.124.195, remote= 172.18.124.197, local_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), remote_proxy= 172.25.70.6/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-3des esp-md5-hmac (Tunnel), lifedur= 0s and 0kb, spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x2 ... local_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), remote_proxy= 172.25.70.6/0.0.0.0/0/0 (type=1), protocol= ESP, transform= esp-3des esp-md5-hmac (Tunnel), lifedur= 28800s and 4608000kb, spi= 0x866452A1(2254721697), conn_id= 2002, keysize= 0, flags= 0x2 May 11 20:55:53.458: IPSEC(initialize_sas): , (key eng. msg.) OUTBOUND local= 172.18.124.195, remote= 172.18.124.197, local_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), remote_proxy= 172.25.70.6/0.0.0.0/0/0 (type=1), protocol= ESP, transform= esp-3des esp-md5-hmac (Tunnel), lifedur= 28800s and 4608000kb, spi= 0xCA8A5934(3398064436), conn_id= 2003, keysize= 0, flags= 0xA May 11 20:55:53.458: IPSEC(kei_proxy): head = rtp, map->ivrf = , kei->ivrf = May 11 20:55:53.458: IPSEC(kei_proxy): head = rtp, map->ivrf = , kei->ivrf = May 11 20:55:53.462: IPSEC(kei_proxy): head = rtp, map->ivrf = , kei->ivrf = May 11 20:55:53.462: IPSEC(add mtree): src 172.18.124.195, dest 172.25.70.6, dest_port 0 **May 11 20:55:53.462: IPSEC(create_sa): sa ,created**
,sa) sa_dest= 172.18.124.195, sa_prot= 50)
,(sa_spi= 0x866452A1(2254721697
sa_trans= esp-3des esp-md5-hmac , sa_conn_id= 2002
,May 11 20:55:53.462: IPSEC(create_sa): sa created
,sa) sa_dest= 172.18.124.197, sa_prot= 50)
,(sa_spi= 0xCA8A5934(3398064436
sa_trans= esp-3des esp-md5-hmac , sa_conn_id= 2003

Security Association Connection IDs. May 11 20:55:54.442: ISAKMP (0:2): received packet *---!* from 172.18.124.197 dport 500 sport 500 Global (R) QM_IDLE May 11 20:55:54.446: ISAKMP (0:2): deleting node -183955662 error FALSE reason "quick mode done (await)" May 11 20:55:54.446: ISAKMP (0:2): Node -183955662, Input = IKE_MESG_FROM_PEER, IKE_QM_EXCH May 11 20:55:54.446: ISAKMP (0:2): Old State = IKE_QM_R_QM2 New State = IKE_QM_PHASE2_COMPLETE May 11 20:55:54.446: IPSEC(key_engine): got a queue event... May 11 20:55:54.446: IPSEC(key_engine_enable_outbound): rec'd enable notify from ISAKMP May 11 20:55:54.446: IPSEC(key_engine_enable_outbound): enable SA with spi 3398064436/50 for 172.18.124.197 May 11 20:55:57.450: ISAKMP (0:2): received packet from 172.18.124.197 dport 500 sport 500 Global (R) QM_IDLE May 11 20:55:57.450: ISAKMP: set new node -1115155724 to QM_IDLE May 11 20:55:57.454: ISAKMP (0:2): processing HASH payload. message ID = -1115155724 May 11 20:55:57.458: ISAKMP (0:2): processing SA payload. message ID = -1115155724 May 11 20:55:57.458: ISAKMP (0:2): Checking IPSec proposal 1 May 11 20:55:57.458: ISAKMP: transform 1, ESP_AES May 11 20:55:57.458: ISAKMP: attributes in transform: May 11 20:55:57.458: ISAKMP: encaps is 1 (Tunnel) May 11 20:55:57.458: ISAKMP: SA life type in seconds May 11 20:55:57.458: ISAKMP: SA life duration (basic) of 28800 May 11 20:55:57.458: ISAKMP: SA life type in kilobytes May 11 20:55:57.458: ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0 May 11 20:55:57.458: ISAKMP: authenticator is HMAC-SHA May 11 20:55:57.458: ISAKMP: key length .is 256 May 11 20:55:57.462: ISAKMP (0:2): **atts are acceptable**
,May 11 20:55:57.462: IPSEC(validate_proposal_request): proposal part #1
,key eng. msg.) INBOUND local= 172.18.124.195, remote= 172.18.124.197)
,(local_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4
,(remote_proxy= 172.18.124.197/255.255.255.255/0/0 (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= 0x2
...

May 11 20:55:58.362: ISAKMP (0:2): sending packet to 172.18.124.197 my_port 500 peer_port 500 (R) **QM_IDLE**

Confirmation of tunnel establisment. May 11 20:55:58.362: ISAKMP (0:2): Node -1115155724, *---!* Input = IKE_MESG_FROM_IPSEC, IKE_SPI_REPLY May 11 20:55:59.438: ISAKMP (0:2): received packet from 172.18.124.197 dport 500 sport 500 Global (R) QM_IDLE May 11 20:55:59.438: ISAKMP (0:2): deleting node -1115155724 error FALSE reason "quick mode done (await)" May 11 20:55:59.442: ISAKMP (0:2): Node -1115155724, Input = IKE_MESG_FROM_PEER, IKE_QM_EXCH May 11 20:55:59.442: ISAKMP (0:2): Old State = IKE_QM_R_QM2 New State = **IKE_QM_PHASE2_COMPLETE**

تصحيح أخطاء عميل VPN على PIX End باستخدام debug crypto isakmp و debug crypto

May 11 21:16:52.154: ISAKMP (0:0): received packet from 172.18.173.80 dport 500 sport 500 Global (N) NEW SA

May 11 21:16:52.154: ISAKMP: local port 500, remote port 500

May 11 21:16:52.158: ISAKMP: insert sa successfully sa = 8179D054

May 11 21:16:52.158: ISAKMP (0:3): processing SA payload. message ID = 0

May 11 21:16:52.158: ISAKMP (0:3): processing ID payload. message ID = 0

May 11 21:16:52.158: ISAKMP (0:3): ID payload

next-payload : 13

type : 11

group id : **tennis**
protocol : 17
port : 500
length : 14

May 11 21:16:52.158: ISAKMP (0:3): peer matches softclient profile

ISAKMP profile match for VPN Software Clients. May 11 21:16:52.158: ISAKMP: Looking for a *---!* matching key for 172.18.173.80 in default May 11 21:16:52.158: ISAKMP: Looking for a matching key for 172.18.173.80 in vpn May 11 21:16:52.158: ISAKMP: Created a peer struct for 172.18.173.80, peer port 500 May 11 21:16:52.162: ISAKMP: Locking peer struct 0x81791484, IKE refcount 1 for crypto_ikmp_config_initialize_sa May 11 21:16:52.162: ISAKMP (0:3): Setting client config settings 81EEB340 May 11 21:16:52.162: ISAKMP (0:3): (Re)Setting client xauth list and state May 11 21:16:52.162: ISAKMP (0:3): processing vendor id payload May 11 21:16:52.162: ISAKMP (0:3): vendor ID seems Unity/DPD but major 215 mismatch May 11 21:16:52.162: ISAKMP (0:3): vendor ID is XAUTH May 11 21:16:52.162: ISAKMP (0:3): processing vendor id payload May 11 21:16:52.162: ISAKMP (0:3): vendor ID is DPD May 11 21:16:52.162: ISAKMP (0:3): processing vendor id payload May 11 21:16:52.166: ISAKMP (0:3): vendor ID seems Unity/DPD but major 123 mismatch May 11 21:16:52.166: ISAKMP (0:3): vendor ID is NAT-T v2 May 11 21:16:52.166: ISAKMP (0:3): processing vendor id payload May 11 21:16:52.166: ISAKMP (0:3): vendor ID seems Unity/DPD but major 194 mismatch May 11 21:16:52.166: ISAKMP (0:3): processing vendor id payload May 11 21:16:52.166: ISAKMP (0:3): vendor ID is Unity May 11 21:16:52.166: ISAKMP (0:3) Authentication by xauth preshared May 11 21:16:52.166: ISAKMP (0:3): **Checking ISAKMP transform 1 against priority 20 policy**

ISAKMP policy that matches against configured policy. May 11 21:16:52.166: ISAKMP: *---!* encryption AES-CBC May 11 21:16:52.170: ISAKMP: hash SHA May 11 21:16:52.170: ISAKMP: default group 2 May 11 21:16:52.170: ISAKMP: auth XAUTHInitPreShared May 11 21:16:52.170: ISAKMP: life type in seconds May 11 21:16:52.170: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B May 11 21:16:52.170: ISAKMP: keylength of 256 May 11 21:16:52.170: ISAKMP (0:3): Encryption algorithm offered does not match policy! May 11 21:16:52.170: ISAKMP (0:3): atts are not acceptable. Next payload is 3 .... May 11 21:16:52.198: ISAKMP (0:3): Checking ISAKMP transform 10 against priority 20 policy May 11 21:16:52.198: ISAKMP: encryption 3DES-CBC May 11 21:16:52.202: ISAKMP: hash MD5 May 11 21:16:52.202: ISAKMP: default group 2 May 11 21:16:52.202: ISAKMP: auth XAUTHInitPreShared May 11 21:16:52.202: ISAKMP: life type in seconds May 11 21:16:52.202: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B May 11 21:16:52.202: ISAKMP (0:3): atts are acceptable. Next payload is 3 May 11 21:16:52.418: ISAKMP (0:3): processing KE payload. message ID = 0 May 11 21:16:52.686: ISAKMP (0:3): processing NONCE payload. message ID = 0 May 11 21:16:52.690: ISAKMP (0:3): vendor ID is NAT-T v2 May 11 21:16:52.690: ISAKMP (0:3): Input = IKE_MESG_FROM_PEER, IKE_AM_EXCH May 11 21:16:52.690: ISAKMP (0:3): Old State = IKE_READY New State = IKE_R_AM_AAA_AWAIT May 11 21:16:52.694: ISAKMP: got callback 1 May 11 21:16:52.698: ISAKMP (0:3): SKEYID state generated May 11 21:16:52.698: ISAKMP (0:3): constructed NAT-T vendor-02 ID May 11 21:16:52.702: ISAKMP (0:3): SA is doing pre-shared key authentication plus XAUTH using id type ID_IPV4_ADDR May 11 21:16:52.702: ISAKMP (0:3): ID payload next-payload : 10 type : 1 address : 172.18.124.195 protocol : 17 port : 0 length : 12 May 11 21:16:52.702: ISAKMP (3): Total payload length: 12 May 11 21:16:52.702: ISAKMP (0:3): sending packet to 172.18.173.80

my_port 500 peer_port 500 (R) AG_INIT_EXCH May 11 21:16:52.706: ISAKMP (0:3): Input = IKE_MESG_FROM_AAA, PRESHARED_KEY_REPLY May 11 21:16:52.706: ISAKMP (0:3): Old State = IKE_R_AM_AAA_AWAIT New State = IKE_R_AM2 May 11 21:16:52.746: ISAKMP (0:3): received packet from 172.18.173.80 dport 500 sport 500 Global (R) AG_INIT_EXCH May 11 21:16:52.750: ISAKMP (0:3): processing HASH payload. message ID = 0 May 11 21:16:52.750: ISAKMP (0:3): processing NOTIFY INITIAL_CONTACT protocol 1 spi 0, message ID = 0, sa = 8179D054 May 11 21:16:52.750: ISAKMP (0:3): **SA authentication status: authenticated**

Phase 1 SAs are authenticated. May 11 21:16:52.750: ISAKMP (0:3): Process initial contact, *---!* bring down existing phase 1 and 2 SA's with local 172.18.124.195 remote 172.18.173.80 remote port 500 May 11 21:16:52.750: ISAKMP (0:3): returning IP addr to the address pool May 11 21:16:52.754: ISAKMP:received payload type 20 May 11 21:16:52.754: ISAKMP:received payload type 20 May 11 21:16:52.754: ISAKMP (0:3): SA authentication status: authenticated May 11 21:16:52.754: ISAKMP (0:3): SA has been authenticated with 172.18.173.80 May 11 21:16:52.754: ISAKMP: Trying to insert a peer 172.18.124.195/172.18.173.80/500/, and inserted successfully. May 11 21:16:52.758: IPSEC(key_engine): got a queue event... May 11 21:16:52.758: ISAKMP: set new node -1991824466 to **CONF_XAUTH**

User Authentication phase starts. May 11 21:16:52.758: ISAKMP (0:3): sending packet to *---!* 172.18.173.80 my_port 500 peer_port 500 (R) QM_IDLE May 11 21:16:52.762: ISAKMP (0:3): purging node -1991824466 May 11 21:16:52.762: ISAKMP: Sending phase 1 responder lifetime 86400 May 11 21:16:52.762: ISAKMP (0:3): Input = IKE_MESG_FROM_PEER, IKE_AM_EXCH May 11 21:16:52.762: ISAKMP (0:3): Old State = IKE_R_AM2 New State = IKE_P1_COMPLETE May 11 21:16:52.762: ISAKMP (0:3): Need XAUTH May 11 21:16:52.762: ISAKMP (0:3): FSM action returned error: 4 May 11 21:16:52.766: ISAKMP (0:3): Input = IKE_MESG_INTERNAL, IKE_PHASE1_COMPLETE May 11 21:16:52.766: ISAKMP (0:3): Old State = IKE_P1_COMPLETE New State = IKE_XAUTH_AAA_START_LOGIN_AWAIT May 11 21:16:52.766: ISAKMP: got callback 1 May 11 21:16:52.766: ISAKMP: set new node -1773462433 to CONF_XAUTH May 11 21:16:52.766: ISAKMP/xauth: **request attribute XAUTH_USER_NAME_V2**

Requests user name. May 11 21:16:52.770: ISAKMP/xauth: **request attribute** *---!* **XAUTH_USER_PASSWORD_V2**

Requests user password. May 11 21:16:52.770: ISAKMP (0:3): initiating peer config to *---!* 172.18.173.80. ID = -1773462433 May 11 21:16:52.770: ISAKMP (0:3): sending packet to 172.18.173.80 my_port 500 peer_port 500 (R) CONF_XAUTH May 11 21:16:52.770: ISAKMP (0:3): Input = IKE_MESG_FROM_AAA, IKE_AAA_START_LOGIN ... May 11 21:17:00.350: ISAKMP (0:3): Input = IKE_MESG_FROM_PEER, IKE_CFG_REQUEST May 11 21:17:00.350: ISAKMP (0:3): Old State = IKE_P1_COMPLETE New State = IKE_CONFIG_AUTHOR_AAA_AWAIT May 11 21:17:00.434: ISAKMP: got callback 1 May 11 21:17:00.438: ISAKMP (0:3): attributes sent in message: May 11 21:17:00.438: Address: 0.2.0.0 May 11 21:17:00.438: ISAKMP (0:3): **allocating address 10.50.50.2**

Allocates the IP address for software VPN Client from the client IP pool. May 11 *---!* 21:17:00.438: ISAKMP: Sending private address: 10.50.50.2 May 11 21:17:00.442: ISAKMP: Sending ADDRESS_EXPIRY seconds left to use the address: 86391 May 11 21:17:00.442: ISAKMP: Sending APPLICATION_VERSION string: Cisco Internetwork Operating System Software IOS (tm) C1700 Software (C1700-K9O3SY7-M), Version 12.3(9a), RELEASE SOFTWARE (fc4) Copyright (c) 1986-2004 by cisco Systems, Inc. Compiled Fri 23-Jul-04 02:20 by kellythw May 11 21:17:00.442: ISAKMP (0/3): Unknown Attr: UNKNOWN (0x7008) May 11 21:17:00.446: ISAKMP (0/3): Unknown Attr: UNKNOWN (0x700A) May 11 21:17:00.446: ISAKMP (0/3): Unknown Attr: UNKNOWN (0x7005) May 11 21:17:00.446: ISAKMP (0:3): responding to peer config from 172.18.173.80. ID = 1330918554 May 11 21:17:00.450: ISAKMP (0:3): sending packet to 172.18.173.80 my_port 500 peer_port 500 (R) CONF_ADDR May 11 21:17:00.450: ISAKMP (0:3): deleting node 1330918554 error FALSE reason "" May 11 21:17:00.450: ISAKMP (0:3): Input = IKE_MESG_FROM_AAA, IKE_AAA_GROUP_ATTR May 11 21:17:00.450: ISAKMP (0:3): Old State = IKE_CONFIG_AUTHOR_AAA_AWAIT New State = IKE_P1_COMPLETE May 11 21:17:00.454: ISAKMP (0:3): Input = IKE_MESG_INTERNAL, IKE_PHASE1_COMPLETE May 11 21:17:00.454: ISAKMP (0:3): Old State = IKE_P1_COMPLETE New State = IKE_P1_COMPLETE ... May 11 21:17:01.474: ISAKMP (0:3): **Creating IPSec SAs**

Creation of IPsec Security Associations. May 11 21:17:01.474: inbound SA from 172.18.173.80 *---!* to 172.18.124.195 (f/i) 0/ 0 (proxy 10.50.50.2 to 0.0.0.0) May 11 21:17:01.474: has spi 0x1B139B2F and conn_id 2000 and flags 2 May 11 21:17:01.474: lifetime of 2147483 seconds May 11 21:17:01.474: has client flags 0x0 May 11 21:17:01.474: outbound SA from 172.18.124.195 to 172.18.173.80 (f/i) 0/ 0 (proxy 0.0.0.0 to 10.50.50.2) May 11 21:17:01.474: has spi -895677582 and conn_id 2001 and flags A May 11 21:17:01.474: lifetime of 2147483 seconds May 11 21:17:01.474: has client flags 0x0 May 11 21:17:01.478: ISAKMP (0:3): sending packet to 172.18.173.80 my_port 500 peer_port 500 (R) QM_IDLE May 11 21:17:01.478: ISAKMP (0:3): Node 896912581, Input = IKE_MESG_FROM_IPSEC, IKE_SPI_REPLY May 11 21:17:01.478: ISAKMP (0:3): Old State = IKE_QM_SPI_STARVE New State = IKE_QM_R_QM2 May 11 21:17:01.482: IPSEC(key_engine): got a queue event... May 11 21:17:01.482: IPSEC(initialize_sas): , (key eng. msg.) INBOUND local= 172.18.124.195, remote= 172.18.173.80, local_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), remote_proxy=

10.50.50.2/0.0.0.0/0/0 (type=1), protocol= ESP, transform= esp-3des esp-sha-hmac (Tunnel), lifedur= 2147483s and 0kb, spi= 0x1B139B2F(454269743), conn_id= 2000, keysize= 0, flags= 0x2 May 11 21:17:01.482: IPSEC(initialize_sas): , (key eng. msg.) OUTBOUND local= 172.18.124.195, remote= 172.18.173.80, local_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), remote_proxy= 10.50.50.2/0.0.0.0/0/0 (type=1), protocol= ESP, transform= esp-3des esp-sha-hmac (Tunnel), lifedur= 2147483s and 0kb, spi= 0xCA9D0B72(3399289714), conn_id= 2001, keysize= 0, flags= 0xA May 11 21:17:01.486: IPSEC(kei_proxy): head = rtp, map->ivrf = , kei->ivrf = May 11 21:17:01.486: IPSEC(kei_proxy): head = rtp, map->ivrf = , kei->ivrf = May 11 21:17:01.486: IPSEC(add mtree): src 172.18.124.195, dest 10.50.50.2, dest_port 0 **May 11 21:17:01.486: ,IPSEC(create_sa): sa created ,sa) sa_dest= 172.18.124.195, sa_prot= 50) ,(sa_spi= 0x1B139B2F(454269743 sa_trans= esp-3des esp-sha-hmac , sa_conn_id= 2000 ,May 11 21:17:01.490: IPSEC(create_sa): sa created ,sa) sa_dest= 172.18.173.80, sa_prot= 50) ,(sa_spi= 0xCA9D0B72(3399289714 sa_trans= esp-3des esp-sha-hmac , sa_conn_id= 2001**

Security Association connection IDs created. May 11 21:17:01.742: ISAKMP (0:3): received *---!* packet from 172.18.173.80 dport 500 sport 500 Global (R) **QM_IDLE**

Successful tunnel established. May 11 21:17:01.746: ISAKMP (0:3): deleting node 896912581 *---!* error FALSE reason "quick mode done (await)" May 11 21:17:01.746: ISAKMP (0:3): Node 896912581, Input = IKE_MESG_FROM_PEER, IKE_QM_EXCH May 11 21:17:01.746: ISAKMP (0:3): Old State = IKE_QM_R_QM2 New State = **IKE_QM_PHASE2_COMPLETE**

...May 11 21:17:01.746: IPSEC(key_engine): got a queue event May 11 21:17:01.746: IPSEC(key_engine_enable_outbound): rec'd enable notify from ISAKMP May 11 21:17:01.746: IPSEC(key_engine_enable_outbound): enable SA with spi 3399289714/50 for 172.18.173.80

تصحيح الأخطاء على PIX 501 (اتصال شبكة LAN إلى شبكة LAN)

PIX-501#

ISAKMP (0): beginning Main Mode exchange

crypto_isakmp_process_block:src:172.18.124.195, dest:172.18.124.196 spt:500 dpt:500 OAK_MM exchange

ISAKMP (0): processing SA payload. message ID = 0

ISAKMP (0): **Checking ISAKMP transform 1 against priority 10 policy**

ISAKMP attributes check in process. ISAKMP: encryption 3DES-CBC ISAKMP: hash MD5 ISAKMP: *---!* default group 2 ISAKMP: auth pre-share ISAKMP: life type in seconds ISAKMP: life duration (VPI) of 0x0 0x1 0x51 0x80 ISAKMP (0): **atts are acceptable.** Next payload is 0

ISAKMP (0): SA is doing pre-shared key authentication using id type ID_IPV4_ADDR return status is IKMP_NO_ERROR

crypto_isakmp_process_block:src:172.18.124.195, dest:172.18.124.196 spt:500 dpt:500 OAK_MM exchange

ISAKMP (0): processing KE payload. message ID = 0

ISAKMP (0): processing NONCE payload. message ID = 0

ISAKMP (0): processing vendor id payload

ISAKMP (0): processing vendor id payload

ISAKMP (0): remote peer supports dead peer detection

ISAKMP (0): processing vendor id payload

!ISAKMP (0): speaking to another IOS box

ISAKMP (0): processing vendor id payload

ISAKMP (0): received xauth v6 vendor id

ISAKMP (0): ID payload
next-payload : 8
type : 1
protocol : 17
port : 500
length : 8
ISAKMP (0): Total payload length: 12
return status is IKMP_NO_ERROR
crypto_isakmp_process_block:src:172.18.124.195, dest:172.18.124.196
spt:500 dpt:500
OAK_MM exchange
ISAKMP (0): processing ID payload. message ID = 0
ISAKMP (0): processing HASH payload. message ID = 0
ISAKMP (0): **SA has been authenticated**

ISAKMP (0): beginning Quick Mode exchange, M-ID of 156512779:954320bIPSEC
...key_engine): got a queue event)
IPSEC(spi_response): getting spi 0x79efefce(2045767630) for SA
from 172.18.124.195 to 172.18.124.196 for prot 3

return status is IKMP_NO_ERROR
ISAKMP (0): sending INITIAL_CONTACT notify
ISAKMP (0): sending NOTIFY message 24578 protocol 1
VPN Peer: ISAKMP: Added new peer: ip:172.18.124.195/500 Total VPN Peers:1
VPN Peer: ISAKMP: Peer ip:172.18.124.195/500 Ref cnt incremented to:1 Total
VPN Peers:1
crypto_isakmp_process_block:src:172.18.124.195, dest:172.18.124.196
spt:500 dpt:500
OAK_QM exchange
:oakley_process_quick_mode
OAK_QM_IDLE
ISAKMP (0): processing SA payload. message ID = 156512779

ISAKMP : Checking IPSec proposal 1

ISAKMP: transform 1, ESP_3DES
:ISAKMP: attributes in transform
ISAKMP: encaps is 1
ISAKMP: SA life type in seconds
ISAKMP: SA life duration (basic) of 28800
ISAKMP: SA life type in kilobytes
ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0
ISAKMP: authenticator is HMAC-SHA
.ISAKMP (0): **atts are acceptable**

Phase 1 attributes are negotiated. IPSEC(validate_proposal_request): proposal part #1, (key *---!* eng. msg.) dest= 172.18.124.195, src= 172.18.124.196, dest_proxy= 192.168.40.0/255.255.255.0/0/0 (type=4), src_proxy= 192.168.10.0/255.255.255.0/0/0 (type=4), protocol= ESP, transform= esp-3des esp-sha-hmac , lifedur= 0s and 0kb, spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x4 ISAKMP (0): processing NONCE payload. message ID = 156512779 ISAKMP (0): processing ID payload. message ID = 156512779 ISAKMP (0): processing ID payload. message ID = 156512779 ISAKMP (0): processing NOTIFY payload 24576 protocol 3 spi 4227499308, message ID = 156512779 ISAKMP (0): processing responder lifetime ISAKMP (0): responder lifetime of 3600s ISAKMP (0): Creating IPSec SAs inbound SA from 172.18.124.195 to 172.18.124.196 (proxy 192.168.40.0 to 192.168.10.0) has spi 2045767630 and conn_id 1 and flags 4 lifetime of 3600 seconds lifetime of 4608000 kilobytes outbound SA from 172.18.124.196 to 172.18.124.195 (proxy 192.168.10.0 to 192.168.40.0) has spi 4227499308 and conn_id 2 and flags 4 lifetime of 3600 seconds lifetime of 4608000 kilobytesIPSEC(key_engine): got a queue event... IPSEC(initialize_sas): , (key eng. msg.) dest= 172.18.124.196, src= 172.18.124.195, dest_proxy= 192.168.10.0/255.255.255.0/0/0 (type=4), src_proxy= 192.168.40.0/255.255.255.0/0/0 (type=4), protocol= ESP, transform= esp-3des esp-sha-hmac , lifedur= 3600s and 4608000kb, **spi= 0x79efefce(2045767630), conn_id= 1, keysize= 0, flags= 0x4**

, :(IPSEC(initialize_sas
,key eng. msg.) src= 172.18.124.196, dest= 172.18.124.195)
,(src_proxy= 192.168.10.0/255.255.255.0/0/0 (type=4
,(dest_proxy= 192.168.40.0/255.255.255.0/0/0 (type=4
, protocol= ESP, transform= esp-3des esp-sha-hmac
,lifedur= 3600s and 4608000kb
spi= 0xfbfa852c(4227499308), conn_id= 2, keysize= 0, flags= 0x4
.Phase 2 tunnel establishment ---!

تصحيح الأخطاء على PIX-506-B (اتصال عميل EzVPN)

ISAKMP (0): ID payload
next-payload : 13
type : 11
protocol : 17
port : 0
length : 8
ISAKMP (0): Total payload length: 12
ISAKMP (0:0): sending NAT-T vendor ID - rev 2 & 3
ISAKMP (0): beginning Aggressive Mode exchange
crypto_isakmp_process_block:src:172.18.124.195, dest:172.18.124.197
spt:500 dpt:500
OAK_AG exchange
ISAKMP (0): processing SA payload. message ID = 0

ISAKMP (0): Checking ISAKMP transform 1 against priority 65001 policy
ISAKMP: encryption 3DES-CBC
ISAKMP: hash MD5
ISAKMP: default group 2
(ISAKMP: extended auth pre-share (init
ISAKMP: life type in seconds
ISAKMP: life duration (VPI) of 0x0 0x1 0x51 0x80
ISAKMP (0): atts are not acceptable. Next payload is 0
...
ISAKMP (0): Checking ISAKMP transform 1 against priority 65008 policy
ISAKMP: encryption 3DES-CBC
ISAKMP: hash MD5
ISAKMP: default group 2
(ISAKMP: extended auth pre-share (init
ISAKMP: life type in seconds
ISAKMP: life duration (VPI) of 0x0 0x1 0x51 0x80
ISAKMP (0): **atts are acceptable. Next payload is 0**
Phase 1 attributes are accepted. ISAKMP (0): processing vendor id payload ISAKMP (0): *---!*
processing vendor id payload ISAKMP (0): remote peer supports dead peer detection ISAKMP (0): processing vendor id payload ISAKMP (0): speaking to another IOS box! ISAKMP (0): processing vendor id payload ISAKMP (0): received xauth v6 vendor id ISAKMP (0): processing vendor id payload ISAKMP (0:0): vendor ID is NAT-T ISAKMP (0): processing KE payload. message ID = 0 ISAKMP (0): processing ID payload. message ID = 0 ISAKMP (0): processing NONCE payload. message ID = 0 ISAKMP (0): processing HASH payload. message ID = 0 ISAKMP (0:0): Detected NAT-D payload ISAKMP (0:0): recalc my hash for NAT-D ISAKMP (0:0): NAT match MINE hash ISAKMP (0:0): Detected NAT-D payload ISAKMP (0:0): recalc his hash for NAT-D ISAKMP (0:0): NAT match HIS hash ISAKMP (0): **SA has been authenticated**
SAs have been authenticated. crypto_isakmp_process_block:src:172.18.124.195, *---!*
dest:172.18.124.197 spt:500 dpt:500 ISAKMP (0): processing NOTIFY payload 24576 protocol 1 spi 0, message ID = 1554218001 ISAKMP (0): processing responder lifetime ISAKMP (0): phase 1 responder lifetime of 86400s ISAKMP (0): not overriding 86400s return status is IKMP_NO_ERR_NO_TRANS crypto_isakmp_process_block:src:172.18.124.195, dest:172.18.124.197 spt:500 dpt:500 ISAKMP_TRANSACTION exchange ISAKMP (0:0): processing transaction payload from 172.18.124.195. message ID = 15250780 ISAKMP: Config payload CFG_REQUEST ISAKMP (0:0): **checking :request**
(*Extended authentication process check.* **ISAKMP: attribute XAUTH_USER_NAME (16521** *---!*
(ISAKMP: attribute XAUTH_USER_PASSWORD (16522
ISAKMP (0:0): responding to peer config from 172.18.124.195. ID = 3060977862

return status is IKMP_NO_ERROR
crypto_isakmp_process_block:src:172.18.124.195, dest:172.18.124.197
spt:500 dpt:500
ISAKMP_TRANSACTION exchange
.ISAKMP (0:0): processing transaction payload from 172.18.124.195
message ID = 15250780
ISAKMP: Config payload CFG_SET
:ISAKMP (0:0): checking SET
ISAKMP: **XAUTH_STATUS XAUTH-OK**

Extended authentication checked. ISAKMP (0:0): attributes sent in message: Status: 1 return *---!* status is IKMP_NO_ERROR ISAKMP : attributes being requested INTERNAL_IPV_ADDRESS ALT_DEF_DOMAIN INTERNAL_IPV_NBNS INTERNAL_IPV_DNS ALT_SPLIT_INCLUDE ALT_SPLITDNS_NAME ALT_PFS ALT_CFG_SEC_UNIT ALT_CFG_USER_AUTH ALT_CFG_IDLE_TIME ALT_CFG_IP_TEL ALT_CFG_AUTH_SRVNAME ALT_CFG_AUTH_SRVPORT ALT_CFG_AUTH_SRVSEC ALT_BACKUP_SERVERS ... ISAKMP : Checking IPSec proposal 1 ISAKMP: transform 1, ESP_3DES ISAKMP: attributes in transform: ISAKMP: encaps is 1 ISAKMP: SA life type in seconds ISAKMP: SA life duration (basic) of 28800 ISAKMP: SA life type in kilobytes ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0 ISAKMP: authenticator is HMAC-MD5 ISAKMP (0): **atts are acceptable.**

IPsec proposal accepted. IPSEC(validate_proposal_request): proposal part #1, (key eng. *---!* msg.) dest= 172.18.124.195, src= 172.18.124.197, dest_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), src_proxy= 172.25.70.6/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-3des esp-md5-hmac , lifedur= 0s and 0kb, spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x4 ISAKMP (0): processing NONCE payload. message ID = 4111011634 ISAKMP (0): processing ID payload. message ID = 4111011634 ISAKMP (0): processing ID payload. message ID = 4111011634 ISAKMP (0): processing NOTIFY payload 24576 protocol 3 spi 2254721697, message ID = 4111011634 ISAKMP (0): processing responder lifetime ISAKMP (0): responder lifetime of 3600s ISAKMP (0): Creating IPSec SAs inbound SA from 172.18.124.195 to 172.18.124.197 (proxy 0.0.0.0 to 172.25.70.6) has spi 3398064436 and conn_id 2 and flags 4 lifetime of 3600 seconds lifetime of 4608000 kilobytes outbound SA from 172.18.124.197 to 172.18.124.195 (proxy 172.25.70.6 to 0.0.0.0) has spi 2254721697 and conn_id 1 and flags 4 lifetime of 3600 seconds lifetime of 4608000 kilobytesIPSEC(key_engine): got a queue event... IPSEC(initialize_sas): , (key eng. msg.) dest= **,(**172.18.124.197, src= 172.18.124.195, **dest_proxy= 172.25.70.6/255.255.255.255/0/0 (type=1 ,(src_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4**
, protocol= ESP, transform= esp-3des esp-md5-hmac
,lifedur= 3600s and 4608000kb
spi= 0xca8a5934(3398064436), conn_id= 2, keysize= 0, flags= 0x4
, :(IPSEC(initialize_sas
,key eng. msg.) src= 172.18.124.197, dest= 172.18.124.195)
,(src_proxy= 172.25.70.6/255.255.255.255/0/0 (type=1
,(dest_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4

IPSec SAs created. protocol= ESP, transform= esp-3des esp-md5-hmac , lifedur= 3600s and *---!* 4608000kb, spi= 0x866452a1(2254721697), conn_id= 1, keysize= 0, flags= 0x4

تصحيح الأخطاء على عميل VPN

حدد **ابدأ > برامج > عميل Cisco VPN > عارض السجل.**

(Cisco Systems VPN Client Version 4.0 (Rel
.Copyright (C) 1998-2003 Cisco Systems, Inc. All Rights Reserved
Client Type(s): Windows, WinNT
Running on: 5.1.2600

Sev=Info/6 IKE/0x6300003B 08/19/04 15:47:01.430 1
.Attempting to establish a connection with 172.18.124.195

Sev=Info/4 IKE/0x63000013 08/19/04 15:47:01.460 2
,(SENDING >>> ISAKMP OAK AG (SA, KE, NON, ID, VID(Xauth), VID(dpd
VID(Nat-T), VID(Frag), VID(Unity)) to 172.18.124.195

Sev=Info/5 IKE/0x6300002F 08/19/04 15:47:01.947 3
Received ISAKMP packet: peer = 172.18.124.195

Sev=Info/4 IKE/0x63000014 08/19/04 15:47:01.947 4
,(RECEIVING <<< ISAKMP OAK AG (SA, VID(Unity), VID(dpd), VID(?), VID(Xauth
VID(Nat-T), KE, ID, NON, HASH, NAT-D, NAT-D) from 172.18.124.195

Sev=Info/5 IKE/0x63000001 08/19/04 15:47:01.947 5
Peer is a Cisco-Unity compliant peer

Sev=Info/5 IKE/0x63000001 08/19/04 15:47:01.947 6
Peer supports DPD

Sev=Info/5 IKE/0x63000001 08/19/04 15:47:01.947 7
Peer supports DWR Code and DWR Text

Sev=Info/5 IKE/0x63000001 08/19/04 15:47:01.947 8
Peer supports XAUTH

Sev=Info/5 IKE/0x63000001 08/19/04 15:47:01.947 9
Peer supports NAT-T

Sev=Info/6 IKE/0x63000001 08/19/04 15:47:01.977 10
IOS Vendor ID Contruction successful

Sev=Info/4 IKE/0x63000013 08/19/04 15:47:01.977 11
,SENDING >>> ISAKMP OAK AG *(HASH, NOTIFY:STATUS_INITIAL_CONTACT
NAT-D, NAT-D, VID(?), VID(Unity)) to 172.18.124.195

Sev=Info/4 IKE/0x63000082 08/19/04 15:47:01.977 12
IKE Port in use - Local Port = 0x01F4, Remote Port = 0x01F4

Sev=Info/5 IKE/0x63000071 08/19/04 15:47:01.977 13
:Automatic NAT Detection Status
Remote end is NOT behind a NAT device
This end is NOT behind a NAT device

NAT device detection process. 14 15:47:01.986 08/19/04 Sev=Info/5 IKE/0x6300002F Received *---!*
ISAKMP packet: peer = 172.18.124.195 15 15:47:01.986 08/19/04 Sev=Info/4 IKE/0x63000014
RECEIVING <<< ISAKMP OAK INFO *(HASH, NOTIFY:STATUS_RESP_LIFETIME) from 172.18.124.195 16
15:47:01.986 08/19/04 Sev=Info/5 IKE/0x63000044 RESPONDER-LIFETIME notify has value of 86400
seconds 17 15:47:01.986 08/19/04 Sev=Info/5 IKE/0x63000046 This SA has already been alive for 0
seconds, setting expiry to 86400 seconds from now 18 15:47:01.996 08/19/04 Sev=Info/5
IKE/0x6300002F Received ISAKMP packet: peer = 172.18.124.195 19 15:47:01.996 08/19/04 Sev=Info/4
IKE/0x63000014 RECEIVING <<< ISAKMP OAK TRANS *(HASH, ATTR) from 172.18.124.195 20 15:47:02.689
08/19/04 Sev=Info/4 IPSEC/0x63700008 IPSec driver successfully started 21 15:47:02.689 08/19/04
Sev=Info/4 IPSEC/0x63700014 Deleted all keys 22 15:47:02.689 08/19/04 Sev=Info/6
IPSEC/0x6370002B Sent 85 packets, 0 were fragmented. 23 15:47:06.044 08/19/04 Sev=Info/4
IKE/0x63000013 SENDING >>> ISAKMP OAK TRANS *(HASH, ATTR) to 172.18.124.195 24 15:47:06.064
08/19/04 Sev=Info/5 IKE/0x6300002F Received ISAKMP packet: peer = 172.18.124.195 25 15:47:06.064
08/19/04 Sev=Info/4 IKE/0x63000014 RECEIVING <<< ISAKMP OAK TRANS *(HASH, ATTR) from
172.18.124.195 26 15:47:06.064 08/19/04 Sev=Info/4 IKE/0x63000013 SENDING >>> ISAKMP OAK TRANS
*(HASH, ATTR) to 172.18.124.195 27 15:47:06.103 08/19/04 Sev=Info/5 IKE/0x6300005D Client
sending a firewall request to concentrator 28 15:47:06.103 08/19/04 Sev=Info/5 IKE/0x6300005C
Firewall Policy: Product=Cisco Systems Integrated Client, Capability= (Centralized Protection
Policy). 29 15:47:06.113 08/19/04 Sev=Info/4 IKE/0x63000013 SENDING >>> ISAKMP OAK TRANS *(HASH,
ATTR) to 172.18.124.195 30 15:47:06.132 08/19/04 Sev=Info/5 IKE/0x6300002F Received ISAKMP
packet: peer = 172.18.124.195 31 15:47:06.132 08/19/04 Sev=Info/4 IKE/0x63000014 RECEIVING <<<
ISAKMP OAK TRANS *(HASH, ATTR) from 172.18.124.195 32 15:47:06.132 08/19/04 Sev=Info/5
IKE/0x63000010 **MODE_CFG_REPLY: Attribute = INTERNAL_IPV4_ADDRESS: , value = 10.50.50.2**
Assigned IP address for the VPN Client. 33 15:47:06.132 08/19/04 Sev=Info/5 IKE/0xA3000017 *---!*
MODE_CFG_REPLY: The received (INTERNAL_ADDRESS_EXPIRY) attribute and value (842150403) is not
supported 34 15:47:06.132 08/19/04 Sev=Info/5 IKE/0x6300000E MODE_CFG_REPLY: Attribute =
MODECFG_UNITY_DEFDOMAIN: , value = cisco.com 35 15:47:06.132 08/19/04 Sev=Info/5 IKE/0x6300000E
MODE_CFG_REPLY: Attribute = APPLICATION_VERSION, value = Cisco Internetwork Operating System
Software IOS (tm) C1700 Software (C1700-K9O3SY7-M), Version 12.3(9a), RELEASE SOFTWARE (fc4)
Copyright (c) 1986-2004 by cisco Systems, Inc. Compiled Fri 23-Jul-04 02:20 by kellythw 37
15:47:06.171 08/19/04 Sev=Info/4 IKE/0x63000013 SENDING >>> ISAKMP OAK QM *(HASH, SA, NON, ID,

```
ID) to 172.18.124.195 38 15:47:06.444 08/19/04 Sev=Info/5 IKE/0x6300002F Received ISAKMP packet:
   peer = 172.18.124.195 39 15:47:06.454 08/19/04 Sev=Info/4 IKE/0x63000014 RECEIVING <<< ISAKMP
 OAK QM *(HASH, SA, NON, ID, ID, NOTIFY:STATUS_RESP_LIFETIME from 172.18.124.195 40 15:47:06.454
       08/19/04 Sev=Info/5 IKE/0x63000044 RESPONDER-LIFETIME notify has value of 3600 seconds 41
  15:47:06.454 08/19/04 Sev=Info/5 IKE/0x63000045 RESPONDER-LIFETIME notify has value of 4608000
      kb 42 15:47:06.454 08/19/04 Sev=Info/4 IKE/0x63000013 SENDING >>> ISAKMP OAK QM *(HASH) to
              172.18.124.195 43 15:47:06.454 08/19/04 Sev=Info/5 IKE/0x63000058 Loading IPsec SA
    (MsgID=83D109EC OUTBOUND SPI = 0x422186D5 INBOUND SPI = 0x5D94CB41) 44 15:47:06.454 08/19/04
                                  Sev=Info/5 IKE/0x63000025 Loaded OUTBOUND ESP SPI: 0x422186D5

                                    Sev=Info/5 IKE/0x63000026 08/19/04 15:47:06.454 45
                                                Loaded INBOUND ESP SPI: 0x5D94CB41

                                  Sev=Info/4 IPSEC/0x63700014 08/19/04 15:47:09.307 46
                                                          Deleted all keys

                                  Sev=Info/4 IPSEC/0x63700010 08/19/04 15:47:09.307 47
                                                  Created a new key structure

                                  Sev=Info/4 IPSEC/0x6370000F 08/19/04 15:47:09.307 48
                                           Added key with SPI=0xd5862142 into key list

                                  Sev=Info/4 IPSEC/0x63700010 08/19/04 15:47:09.307 49
                                                  Created a new key structure

                                  Sev=Info/4 IPSEC/0x6370000F 08/19/04 15:47:09.307 50
                                           Added key with SPI=0x41cb945d into key list

                                  Sev=Info/4 IPSEC/0x6370002E 08/19/04 15:47:09.307 51
                                         Assigned VA private interface addr 10.50.50.2

                                    Sev=Info/6 IKE/0x6300003D 08/19/04 15:47:16.568 52
                          Sending DPD request to 172.18.124.195, seq# = 2346900535

                                    Sev=Info/4 IKE/0x63000013 08/19/04 15:47:16.568 53
          SENDING >>> ISAKMP OAK INFO *(HASH, NOTIFY:DPD_REQUEST) to 172.18.124.195

                                    Sev=Info/5 IKE/0x6300002F 08/19/04 15:47:16.578 54
                                         Received ISAKMP packet: peer = 172.18.124.195

                                    Sev=Info/4 IKE/0x63000014 08/19/04 15:47:16.578 55
          RECEIVING <<< ISAKMP OAK INFO *(HASH, NOTIFY:DPD_ACK) from 172.18.124.195

                                    Sev=Info/5 IKE/0x6300003F 08/19/04 15:47:16.578 56
                    ,Received DPD ACK from 172.18.124.195, seq# received = 2346900536
                                                    seq# expected = 2346900536
```

استكشاف الأخطاء وإصلاحها

يوفر هذا القسم معلومات يمكنك استخدامها لاستكشاف أخطاء التكوين وإصلاحها.

أوامر استكشاف الأخطاء وإصلاحها

يتم دعم بعض أوامر **العرض بواسطة** أداة مترجم الإخراج (العملاء المسجلون فقط)، والتي تتيح لك عرض تحليل إخراج أمر **العرض**.

ملاحظة: ارجع إلى معلومات مهمة حول أوامر التصحيح قبل إصدار أوامر **debug**.

- **show crypto isakmp sa**— يعرض جميع شبكات IKE (Internet Key Exchange) الحالية في نظير.

```
VPN1750#show crypto isakmp sa
```

```
                                dst             src             state          conn-id slot
                                 QM_IDLE              3    0  172.18.173.80  172.18.124.195
VPN Client. 172.18.124.195 172.18.124.197 QM_IDLE 2 0 !--- EzVPN between hub router and ---!
 PIX-506-B. 172.18.124.195 172.18.124.196 QM_IDLE 1 0 !--- EzVPN between hub router and PIX-
                                                                                        .501
```

- **show crypto ipSec**—يعرض الإعدادات المستخدمة من قبل SAs الحالية.

```
                                                VPN1750#show crypto ipsec sa
                                                  interface: FastEthernet0
                                      Crypto map tag: rtp, local addr. 172.18.124.195

                                                                 :protected vrf
                        (local  ident (addr/mask/prot/port): (192.168.40.0/255.255.255.0/0/0
                        (remote ident (addr/mask/prot/port): (192.168.10.0/255.255.255.0/0/0
                                                    current_peer: 172.18.124.196:500
                                                    {,PERMIT, flags={origin_is_acl
                              pkts encaps: 4, #pkts encrypt: 4, #pkts digest 4#
                              pkts decaps: 4, #pkts decrypt: 4, #pkts verify 4#
                                     pkts compressed: 0, #pkts decompressed: 0#
                                   pkts not compressed: 0, #pkts compr. failed: 0#
                                pkts not decompressed: 0, #pkts decompress failed: 0#
                                                     send errors 0, #recv errors 0#

                                  :.local crypto endpt.: 172.18.124.195, remote crypto endpt
                                                                        172.18.124.196
                                      path mtu 1500, ip mtu 1500, ip mtu idb FastEthernet0
                                                    current outbound spi: DB79E16D

                                                                 :inbound esp sas
                                                      (spi: 0xAF634F08(2942521096
                                            , transform: esp-3des esp-sha-hmac
                                                    { ,in use settings ={Tunnel
                                 slot: 0, conn id: 2000, flow_id: 1, crypto map: rtp
                           (sa timing: remaining key lifetime (k/sec): (4433404/3282
                                                                IV size: 8 bytes
                                                    replay detection support: Y

                                                                 :inbound ah sas

                                                                 :inbound pcp sas

                                                                :outbound esp sas
                                                      (spi: 0xDB79E16D(3682197869
                                            , transform: esp-3des esp-sha-hmac
                                                    { ,in use settings ={Tunnel
                                 slot: 0, conn id: 2001, flow_id: 2, crypto map: rtp
                           (sa timing: remaining key lifetime (k/sec): (4433404/3282
                                                                IV size: 8 bytes
                                                    replay detection support: Y

                                                                 :outbound ah sas

                                                                :outbound pcp sas

                                                                 :protected vrf
                           (local  ident (addr/mask/prot/port): (172.18.124.195/0.0.0.0/0/0
                        (remote ident (addr/mask/prot/port): (50.50.50.7/255.255.255.255/0/0
                                                    current_peer: 172.18.173.80:500
                                                                  {}=PERMIT, flags
                              pkts encaps: 6, #pkts encrypt: 6, #pkts digest 6#
                             pkts decaps: 47, #pkts decrypt: 47, #pkts verify 47#
                                     pkts compressed: 0, #pkts decompressed: 0#
                                   pkts not compressed: 0, #pkts compr. failed: 0#
                                pkts not decompressed: 0, #pkts decompress failed: 0#
```

```
                                    send errors 0, #recv errors 0#

      :.local crypto endpt.: 172.18.124.195, remote crypto endpt
                                                  172.18.173.80
            path mtu 1500, ip mtu 1500, ip mtu idb FastEthernet0
                                    current outbound spi: 72149A7D

                                                 :inbound esp sas
                                       (spi: 0x3467B12A(879210794
                                , transform: esp-3des esp-sha-hmac
                                       { ,in use settings ={Tunnel
                 slot: 0, conn id: 2006, flow_id: 7, crypto map: rtp
               (sa timing: remaining key lifetime (k/sec): (4381078/3577
                                                 IV size: 8 bytes
                                    replay detection support: Y

                                                  :inbound ah sas

                                                 :inbound pcp sas

                                                 :outbound esp sas
                                         (spi: 0x72149A7D(1913952893
                                , transform: esp-3des esp-sha-hmac
                                       { ,in use settings ={Tunnel
                 slot: 0, conn id: 2007, flow_id: 8, crypto map: rtp
               (sa timing: remaining key lifetime (k/sec): (4381086/3577
                                                 IV size: 8 bytes
                                    replay detection support: Y

                                                  :outbound ah sas

                                                 :outbound pcp sas

                                                    :protected vrf
     (local  ident (addr/mask/prot/port): (172.18.124.195/0.0.0.0/0/0
(remote ident (addr/mask/prot/port): (172.25.70.8/255.255.255.255/0/0
                                    current_peer: 172.18.124.197:500
                                                   {}=PERMIT, flags
                      pkts encaps: 3, #pkts encrypt: 3, #pkts digest 3#
                      pkts decaps: 3, #pkts decrypt: 3, #pkts verify 3#
                             pkts compressed: 0, #pkts decompressed: 0#
                           pkts not compressed: 0, #pkts compr. failed: 0#
                 pkts not decompressed: 0, #pkts decompress failed: 0#
                                    send errors 0, #recv errors 0#

      :.local crypto endpt.: 172.18.124.195, remote crypto endpt
                                                  172.18.124.197
            path mtu 1500, ip mtu 1500, ip mtu idb FastEthernet0
                                    current outbound spi: 2DE8E3C9

                                                 :inbound esp sas
                                         (spi: 0xED6381E5(3982721509
                                , transform: esp-3des esp-md5-hmac
                                       { ,in use settings ={Tunnel
                 slot: 0, conn id: 2002, flow_id: 3, crypto map: rtp
               (sa timing: remaining key lifetime (k/sec): (4561846/3283
                                                 IV size: 8 bytes
                                    replay detection support: Y

                                                  :inbound ah sas

                                                 :inbound pcp sas

                                                 :outbound esp sas
```

```
                                        (spi: 0x2DE8E3C9(770237385
                                  , transform: esp-3des esp-md5-hmac
                                        { ,in use settings ={Tunnel
                slot: 0, conn id: 2003, flow_id: 4, crypto map: rtp
          (sa timing: remaining key lifetime (k/sec): (4561846/3281
                                                IV size: 8 bytes
                                      replay detection support: Y

                                                  :outbound ah sas

                                                 :outbound pcp sas

                                                    :protected vrf
        (local  ident (addr/mask/prot/port): (172.18.124.195/0.0.0.0/0/0
(remote ident (addr/mask/prot/port): (172.18.124.197/255.255.255.255/0/0
                                      current_peer: 172.18.124.197:500
                                                   {}=PERMIT, flags
                        pkts encaps: 0, #pkts encrypt: 0, #pkts digest 0#
                        pkts decaps: 0, #pkts decrypt: 0, #pkts verify 0#
                               pkts compressed: 0, #pkts decompressed: 0#
                          pkts not compressed: 0, #pkts compr. failed: 0#
                  pkts not decompressed: 0, #pkts decompress failed: 0#
                                       send errors 0, #recv errors 0#

            :.local crypto endpt.: 172.18.124.195, remote crypto endpt
                                                        172.18.124.197
                path mtu 1500, ip mtu 1500, ip mtu idb FastEthernet0
                                      current outbound spi: 87066AED

                                                   :inbound esp sas
                                        (spi: 0x8C8106A4(2357266084
                                  , transform: esp-3des esp-md5-hmac
                                        { ,in use settings ={Tunnel
                slot: 0, conn id: 2004, flow_id: 5, crypto map: rtp
          (sa timing: remaining key lifetime (k/sec): (4525643/3285
                                                IV size: 8 bytes
                                      replay detection support: Y

                                                  :inbound ah sas

                                                 :inbound pcp sas

                                                  :outbound esp sas
                                        (spi: 0x87066AED(2265344749
                                  , transform: esp-3des esp-md5-hmac
                                        { ,in use settings ={Tunnel
                slot: 0, conn id: 2005, flow_id: 6, crypto map: rtp
          (sa timing: remaining key lifetime (k/sec): (4525643/3285
                                                IV size: 8 bytes
                                      replay detection support: Y

                                                  :outbound ah sas

                                                 :outbound pcp sas
```

معلومات ذات صلة

- أستكشاف أخطاء PIX وإصلاحها لتمرير حركة مرور البيانات على نفق IPSec المنشأ
- أستكشاف أخطاء أمان IP وإصلاحها - فهم أوامر التصحيح واستخدامها
- صفحات دعم المنتج لجدران الحماية من سلسلة PIX 500
- صفحات دعم تقنية IPSec

- صفحة دعم عميل شبكة VPN من Cisco
- مراجع أوامر PIX
- طلبات التعليقات (RFCs)
- صفحة دعم RADIUS
- الدعم التقني والمستندات - Cisco Systems

حول هذه الترجمة
ترجمت Cisco هذا المستند باستخدام مجموعة من التقنيات الآلية والبشرية لتقديم محتوى دعم للمستخدمين في جميع أنحاء العالم بلغتهم الخاصة. يُرجى ملاحظة أن أفضل ترجمة آلية لن تكون دقيقة كما هو الحال مع الترجمة الاحترافية التي يقدمها مترجم محترف. تخلي Cisco Systems مسئوليتها عن دقة هذه الترجمات وتُوصي بالرجوع دائمًا إلى المستند الإنجليزي الأصلي (الرابط متوفر).