

PIX 501/506 Easy VPN Remote ةكبش نيوكت ةكبش لادادتم اعضو و ي ف IOS هجوم ل ةعسوم لةقداصم لادادتم ساب

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المقدمة

يوضح هذا المستند تكوين IPsec بين ميزة عميل الأجهزة البعيدة ل VPN سهل PIX وميزة خادم VPN السهل المتوفرة في الإصدارات الأحدث من برنامج Cisco IOS®. تم إدخال ميزة Easy VPN Remote ل PIX في الإصدار 6.2 من PIX وبشار إليها أيضا باسم عميل الأجهزة/عميل EzVPN. عند اتصال الشبكة الخاصة الظاهرية (VPN) السهلة البعيدة بجهاز وحدة الاستقبال والبث، هناك ما لا يقل عن خمسة اقترانات أمان (SAs)، بما في ذلك تبادل مفتاح إنترنت (IKE) وأربعة اقترانات IPsec. عند اتصال الشبكة الخاصة الظاهرية (VPN) البسيطة البعيدة بنقطة الاستقبال والبث، فإنها تتفاوض دائما مع وحدتي IPsec SAs باستخدام عنوان IP الخاص بواجهة PIX الخارجية على أي عنوان خلف خادم VPN. يمكن استخدام هذا الأمر لأغراض الإدارة للاتصال بواجهة PIX الخارجية من الشبكة الموجودة خلف موجه Cisco IOS (إما عبر طبقة الأمان [SSH] أو HTTP الآمنة لمدير أجهزة PIX [PDM] أو Telnet). يتم إنشاء ال SA بشكل افتراضي دون أي تكوين، ويتم إنشاء وحدتي الوصول الآخرين لحركة مرور البيانات بين الشبكات خلف PIX وموجه Cisco IOS.

ارجع إلى [مثال تكوين شبكة \(NEM\) VPN السهلة وفقا لمعيار PIX-PIX 6.x](#): للحصول على مزيد من المعلومات حول سيناريو مشابه حيث يعمل الطراز PIX 506 6.x كخادم VPN سهل.

ارجع إلى [PIX/ASA 7.x Easy VPN مع ASA 5500 كالخادم و PIX 506E كمثل تكوين العميل \(NEM\)](#) للحصول على مزيد من المعلومات حول سيناريو مماثل حيث يعمل PIX/ASA 7.x كخادم VPN سهل.

ارجع إلى [PIX/ASA 7.x Easy VPN مع ASA 5500 كالخادم و Cisco 871 كمثل التكوين عن بعد السهل VPN](#)

للحصول على مزيد من المعلومات حول سيناريو مماثل حيث يعمل الموجه Cisco 871 كجهاز التحكم في الشبكة الخاصة الظاهرية (VPN) بسهولة.

ارجع إلى [عمل أجهزة VPN على جهاز أمان PIX 501/506 Series مع مثال تكوين مركز VPN 3000](#) للحصول على مزيد من المعلومات حول سيناريو مماثل حيث يعمل مركز Cisco VPN 3000 كخادم VPN سهل.

المتطلبات الأساسية

المتطلبات

لا توجد متطلبات خاصة لهذا المستند.

المكونات المستخدمة

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

- جدار حماية PIX الذي يشغل الإصدار 6.3(5) من البرنامج **ملاحظة**: تم إدخال ميزة "عمل شبكة VPN سهل" على PIX في الإصدار 6.2.
- موجه IOS من Cisco 7200 Series الذي يشغل الإصدار 12.4(4)T1 من البرنامج **ملاحظة**: تم إدخال ميزة خادم VPN سهل في الإصدار 12.2(8)T.

تم إنشاء المعلومات الواردة في هذا المستند من الأجهزة الموجودة في بيئة معملية خاصة. بدأت جميع الأجهزة المستخدمة 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](#) (للعلماء [المسجلين](#) فقط) للعثور على مزيد من المعلومات حول الأوامر المستخدمة في هذا المستند.

الرسم التخطيطي للشبكة

يستخدم هذا المستند إعداد الشبكة التالي:



التكوينات


```

password 0 remotepass
username cisco password 0 cisco
!
!
!
Create an Internet Security Association and Key ---!
Management Protocol !--- (ISAKMP) policy for Phase 1
negotiations for the hardware client. crypto isakmp
policy 10
hash md5
authentication pre-share
group 2
!
Create a group that will be used to specify the !-- ---!
- Windows Internet Name Service (WINS) and Domain Name
System (DNS) !--- servers' addresses to the hardware
client for authentication. crypto isakmp client
configuration group hwclient
key test123
dns 172.22.1.101
wins 172.22.1.102
domain cisco.com
pool ippool
!
!
Create the Phase 2 Policy for actual data ---!
encryption. crypto ipsec transform-set myset esp-des
esp-md5-hmac
!
Create a dynamic map and apply the transform set ---!
that was created above. crypto dynamic-map dynmap 10
set transform-set myset
!
!
Create the actual crypto map, and apply !--- the ---!
aaa lists that were created earlier. crypto map
clientmap client authentication list userauthen
crypto map clientmap isakmp authorization list
groupauthor
crypto map clientmap client configuration address
respond
crypto map clientmap 10 ipsec-isakmp dynamic dynmap
!
!
!
!
!
interface FastEthernet0/0
ip address 10.10.10.2 255.255.255.0
duplex half
Apply the crypto map on the outside interface. ---!
crypto map clientmap
!
interface ATM2/0
no ip address
shutdown
no atm ilmi-keepalive
!
interface FastEthernet4/0
no ip address
shutdown
duplex half
!
interface Ethernet5/0

```

```

ip address 172.22.1.1 255.255.255.0
    duplex half
    !
    interface Ethernet5/1
        no ip address
        shutdown
        duplex half
    !
    interface Ethernet5/2
        no ip address
        shutdown
        duplex half
    !
    interface Ethernet5/3
        no ip address
        shutdown
        duplex half
    !
Create a pool of addresses to be assigned to the ---!
    VPN Clients. ip local pool ippool 172.22.1.50
    172.22.1.70
        ip classless
        no ip http server
        no ip http secure-server
    !
    !
    !
    logging alarm informational
    !
    !
    !
    !
    !
    control-plane
    !
    !
    !
    !
    !
    !
    gatekeeper
    shutdown
    !
    !
    line con 0
    stopbits 1
    line aux 0
    stopbits 1
    line vty 0 4
    !
    !
    end

#ezvpn_server

```

PIX

```

pix506#show running-config
    Saved :
    :
    (PIX Version 6.3(5)

```

Specify speed and duplex settings. interface ---!

```

ethernet0 auto
interface ethernet1 auto
nameif ethernet0 outside security0
nameif ethernet1 inside security100
enable password WwXYvtKrnjXqGbul encrypted
passwd 2KFQnbNIdI.2KYOU encrypted
hostname pix506
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
pager lines 24
mtu outside 1500
mtu inside 1500

Define IP addresses for the PIX's inside and ---!
outside interfaces. ip address outside 10.10.10.1
255.255.255.0
ip address inside 172.16.1.1 255.255.255.0
ip audit info action alarm
ip audit attack action alarm
pdm history enable
arp timeout 14400

Define the outside router as the default gateway. ---!
!--- Typically this is the IP address of your ISP's
router. route outside 0.0.0.0 0.0.0.0 10.10.10.2 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 sip-disconnect 0:02:00 sip-invite 0:03:00
timeout uauth 0:05:00 absolute
+aaa-server TACACS+ protocol tacacs
aaa-server TACACS+ max-failed-attempts 3
aaa-server TACACS+ deadtime 10
aaa-server RADIUS protocol radius
aaa-server RADIUS max-failed-attempts 3
aaa-server RADIUS deadtime 10
aaa-server LOCAL protocol local
no snmp-server location
no snmp-server contact
snmp-server community public
no snmp-server enable traps
floodguard enable
telnet timeout 5
ssh timeout 5
console timeout 0

Define the VPN peer IP address. vpnclient server ---!
10.10.10.2

```

```

Specify whether Client/PAT (Port Address ---!
Translation) mode !--- is to be used or whether Network
Extension Mode (NEM) is to be used. vpnclient mode
network-extension-mode

Define Easy VPN Remote parameters. !--- This is the ---!
pre-shared key used in IKE negotiation. vpnclient
***** vpngroup hwclient password

This is the extended authentication username and ---!
***** password. vpnclient username cisco password

This enables vpnclient on the PIX. vpnclient enable---!
terminal width 80
Cryptochecksum:fdbd365f0b4cdc6707a50efeeeb8ed44
end :

```

التحقق من الصحة

أوامر show وعينة مخرجات

استخدم هذا القسم لتأكيد عمل التكوين بشكل صحيح.

تدعم أداة مترجم الإخراج (للعلماء المسجلين فقط) بعض أوامر show. استخدم أداة مترجم الإخراج (OIT) لعرض تحليل مخرجات الأمر **show**.

- أمر **vpnClient enable** — يتيح إمكانية الاتصال عن بعد بالشبكة الخاصة الظاهرية (VPN) بسهولة. في NEM، يكون النفق مرتفعا حتى عندما لا يكون هناك حركة مرور مثيرة للاهتمام لتبادلها مع خادم VPN سهل لمحطة الاستقبال والبت.

```
pix506(config)#vpnclient enable
```

- **show crypto isakmp policy** — يعرض المعلومات لكل نهج IKE.

```
pix506(config)#show crypto isakmp policy
```

```

Default protection suite
.(encryption algorithm: DES - Data Encryption Standard (56 bit keys
hash algorithm: Secure Hash Standard
authentication method: Rivest-Shamir-Adleman Signature
(Diffie-Hellman group: #1 (768 bit
lifetime: 86400 seconds, no volume limit

```

يوضح هذا المثال الإخراج من أمر نهج **show crypto isakmp** بعد تمكين عميل الأجهزة.

```
pix506(config)#show crypto isakmp policy
```

```

Protection suite of priority 65001
.(encryption algorithm: DES - Data Encryption Standard (56 bit keys
hash algorithm: Message Digest 5
authentication method: Pre-Shared Key with XAUTH
(Diffie-Hellman group: #2 (1024 bit
lifetime: 86400 seconds, no volume limit

```

```

Protection suite of priority 65002
.(encryption algorithm: DES - Data Encryption Standard (56 bit keys
hash algorithm: Message Digest 5
authentication method: Pre-Shared Key
(Diffie-Hellman group: #2 (1024 bit
lifetime: 86400 seconds, no volume limit

```

- **show crypto ipSec transform** — يعرض عمليات تحويل IPsec الحالية.

```
pix506(config)#show crypto ipsec transform
```

يوضح هذا المثال الإخراج من الأمر **show crypto ipSec transform** بعد تمكين عميل الأجهزة. قبل استخدام الأمر **vpnClient enable**، كانت هناك مجموعة حماية افتراضية واحدة فقط ل ISAKMP. بعد إصدار الأمر، تقوم شبكة VPN Easy VPN Remote تلقائياً بإنشاء أربعة عروض بالإضافة إلى مجموعة الحماية الافتراضية. **in addition**، هناك ما من IPsec تحويل يثبت قبل أن ال **enable** استعملت أمر. يتم إنشاء مجموعة التحويل بشكل ديناميكي بعد إصدار الأمر.

```
pix506(config)#show crypto ipsec transform-set
```

```
{ Transform set _vpnc_tset_9: { esp-des esp-md5-hmac
, { ,will negotiate = { Tunnel
```

```
{ Transform set _vpnc_tset_10: { esp-null esp-md5-hmac
, { ,will negotiate = { Tunnel
```

```
{ Transform set _vpnc_tset_11: { esp-null esp-sha-hmac
, { ,will negotiate = { Tunnel
```

• **show crypto isakmp sa** — يعرض جميع شبكات IKE الحالية في نظير.

```
pix506(config)#show crypto isakmp sa
```

```
Total : 1
```

```
Embryonic : 0
```

dst	src	state	pending	created
QM_IDLE	0	2	10.10.10.1	10.10.10.2

• **show vpnClient** — يعرض معلومات تكوين جهاز عن بعد ل VPN Client أو VPN سهل.

```
pix506(config)#show vpnclient
```

```
LOCAL CONFIGURATION
```

```
vpnclient server 10.10.10.2
```

```
vpnclient mode network-extension-mode
```

```
***** vpnclient vpngroup hwclient password
```

```
***** vpnclient username cisco password
```

```
vpnclient enable
```

```
DOWNLOADED DYNAMIC POLICY
```

```
Current Server : 10.10.10.2
```

```
Primary DNS : 172.22.1.101
```

```
Primary WINS : 172.22.1.102
```

```
Default Domain : cisco.com
```

```
PFS Enabled : No
```

```
Secure Unit Authentication Enabled : No
```

```
User Authentication Enabled : No
```

```
Backup Servers : Deleted by order of the headend
```

• **show crypto ipSecsa** — يعرض رسائل IPsec SAs التي تم إنشاؤها بين الأقران.

```
pix506(config)#show crypto ipsec sa
```

```
interface: outside
```

```
Crypto map tag: _vpnc_cm, local addr. 10.10.10.1
```

```
(local ident (addr/mask/prot/port): (10.10.10.1/255.255.255.255/0/0
```

```
(remote ident (addr/mask/prot/port): (0.0.0.0/0.0.0.0/0/0
```

```
current_peer: 10.10.10.2:500
```

```
{,PERMIT, flags={origin_is_acl
```

```
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 decompress failed: 0#
```

```
send errors 0, #rcv errors 0#
```

As shown here, ping packets were successfully exchanged !--- between the Easy VPN ---! Remote (PIX) and the Easy VPN Server (IOS). local crypto endpt.: 10.10.10.1, remote crypto endpt.: 10.10.10.2 path mtu 1500, ipsec overhead 56, media mtu 1500 current outbound spi: 533f74a9 inbound esp sas: spi: 0xad0984cc(2903082188) transform: esp-des esp-md5-hmac , in use settings ={Tunnel, } slot: 0, conn id: 4, crypto map: _vpnc_cm sa timing: remaining key


```
lifetime (k/sec): (4607999/3001) IV size: 8 bytes replay detection support: Y inbound ah
sas: inbound pcp sas: outbound esp sas: spi: 0x533f74a9(1396667561) transform: esp-des esp-
md5-hmac , in use settings ={Tunnel, } slot: 0, conn id: 3, crypto map: _vpnc_cm sa timing:
remaining key lifetime (k/sec): (4607999/3001) IV size: 8 bytes replay detection support: Y
outbound ah sas: outbound pcp sas: local ident (addr/mask/prot/port):
(172.16.1.0/255.255.255.0/0/0) remote ident (addr/mask/prot/port): (0.0.0.0/0.0.0.0/0/0)
current_peer: 10.10.10.2:500 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 decompress
failed: 0 #send errors 0, #recv errors 0 !--- As shown here, ping packets were successfully
exchanged !--- between hosts behind the Easy VPN Remote (PIX) and the Easy !--- VPN Server
( IOS). local crypto endpt.: 10.10.10.1, remote crypto endpt.: 10.10.10.2 path mtu 1500,
ipsec overhead 56, media mtu 1500 current outbound spi: 2eca448b inbound esp sas: spi:
0xc82c0695(3358328469) transform: esp-des esp-md5-hmac , in use settings ={Tunnel, } slot:
0, conn id: 2, crypto map: _vpnc_cm sa timing: remaining key lifetime (k/sec):
(4607999/2997) IV size: 8 bytes replay detection support: Y inbound ah sas: inbound pcp sas:
outbound esp sas: spi: 0x2eca448b(785007755) transform: esp-des esp-md5-hmac , in use
settings ={Tunnel, } slot: 0, conn id: 1, crypto map: _vpnc_cm sa timing: remaining key
lifetime (k/sec): (4607999/2988) IV size: 8 bytes replay detection support: Y outbound ah
:sas: outbound pcp sas
```

• show access-list —يعرض محتويات قوائم الوصول.

```
(access-list cached ACL log flows: total 0, denied 0 (deny-flow-max 1024
alert-interval 300
access-list _vpnc_acl; 2 elements
access-list _vpnc_acl line 1 permit ip 172.16.1.0 255.255.255.0
(any (hitcnt=18
access-list _vpnc_acl line 2 permit ip host 10.10.10.1
(any (hitcnt=6
```

The above output shows the dynamically built access lists to identify !--- interesting ---! traffic for encryption

أوامر IOS وعينة إخراج

• show crypto isakmp sa — يعرض جميع شبكات IKE الحالية في نظير.

```
ezvpn_server#show crypto isakmp sa
IPv4 Crypto ISAKMP SA
dst src state conn-id slot status
QM_IDLE 1026 0 ACTIVE 10.10.10.1 10.10.10.2
```

• show crypto ipSecsa — يعرض رسائل IPsec SAs التي تم إنشاؤها بين الأقران.

```
ezvpn_server#show crypto ipsec sa
```

As shown above, ping packets were successfully exchanged !--- between the Easy VPN ---! Remote (PIX) and the Easy VPN Server (IOS) !--- as well as hosts behind them. interface: FastEthernet0/0 Crypto map tag: clientmap, local addr 10.10.10.2 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): (10.10.10.1/255.255.255.255/0/0) current_peer 10.10.10.1 port 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.: 10.10.10.2, remote crypto endpt.: 10.10.10.1 path mtu 1500, ip mtu 1500 current outbound spi: 0xAD0984CC(2903082188) inbound esp sas: spi: 0x533F74A9(1396667561) transform: esp-des esp-md5-hmac , in use settings ={Tunnel, } conn id: 21, flow_id: SW:21, crypto map: clientmap sa timing: remaining key lifetime (k/sec): (4470133/2836) IV size: 8 bytes replay detection support: Y Status: ACTIVE inbound ah sas: inbound pcp sas: outbound esp sas: spi: 0xAD0984CC(2903082188) transform: esp-des esp-md5-hmac , in use settings ={Tunnel, } conn id: 22, flow_id: SW:22, crypto map: clientmap sa timing: remaining key lifetime (k/sec): (4470133/2834) IV size: 8 bytes replay detection support: Y Status: ACTIVE outbound ah sas: outbound pcp sas: 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): (172.16.1.0/255.255.255.0/0/0) current_peer 10.10.10.1 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.: 10.10.10.2, remote crypto endpt.: 10.10.10.1 path mtu 1500, ip mtu
1500 current outbound spi: 0xC82C0695(3358328469) inbound esp sas: spi:
0x2ECA448B(785007755) transform: esp-des esp-md5-hmac , in use settings ={Tunnel, } conn id:
23, flow_id: SW:23, crypto map: clientmap sa timing: remaining key lifetime (k/sec):
(4589382/2832) IV size: 8 bytes replay detection support: Y Status: ACTIVE inbound ah sas:
inbound pcsp sas: outbound esp sas: spi: 0xC82C0695(3358328469) transform: esp-des esp-md5-
hmac , in use settings ={Tunnel, } conn id: 24, flow_id: SW:24, crypto map: clientmap sa
timing: remaining key lifetime (k/sec): (4589382/2830) IV size: 8 bytes replay detection
:support: Y Status: ACTIVE outbound ah sas: outbound pcsp sas
```

استكشاف الأخطاء وإصلاحها

أستخدم هذا القسم لاستكشاف أخطاء التكوين وإصلاحها.

إذا قمت بإعداد جهاز VPN البعيد السهل (PIX) وخادم VPN السهل (IOS) كما هو موضح في هذا المستند ولا تزال تواجه مشاكل، فيرجى تجميع إخراج تصحيح الأخطاء من IOS و PIX والإخراج من الأمر `show` للتحليل بواسطة مركز المساعدة التقنية (TAC) من Cisco. راجع أيضا [استكشاف أخطاء PIX وإصلاحها لتمرير حركة مرور البيانات على نفق IPsec](#) أو [استكشاف أخطاء أمان IP وإصلاحها - فهم أوامر تصحيح الأخطاء واستخدامها](#). تمكن تصحيح أخطاء IPsec على PIX.

أوامر تصحيح أخطاء PIX وعينة إخراج

أوامر تصحيح أخطاء PIX

ملاحظة: ارجع إلى [معلومات مهمة حول أوامر التصحيح](#) قبل استخدام أوامر `debug`.

- `debug crypto ipsec`—يعرض مفاوضات IPsec للمرحلة 2.
- `debug crypto isakmp`—يعرض مفاوضات ISAKMP للمرحلة 1.

إخراج نموذج PIX

```
ISAKMP (0): ID payload
next-payload : 13
type          : 11
protocol      : 17
port          : 0
#(length     : 12pix506(config
ISAKMP (0): Total payload length: 16
ISAKMP (0:0): sending NAT-T vendor ID - rev 2 & 3
ISAKMP (0): beginning Aggressive Mode exchange
crypto_isakmp_process_block:src:10.10.10.2, dest:10.10.10.1 spt:500 dpt:500
OAK_AG exchange
ISAKMP (0): processing SA payload. message ID = 0
```

```
The PIX checks the received proposal against !--- its dynamically generated policies ---!
looking for a match. ISAKMP (0): Checking ISAKMP transform 1 against priority 65001 policy
ISAKMP: encryption DES-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 65002 policy ISAKMP: encryption DES-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 65003 policy ISAKMP: encryption DES-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 65004 policy ISAKMP: encryption DES-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 65005 policy ISAKMP: encryption DES-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 65006 policy ISAKMP: encryption DES-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 65007 policy ISAKMP: encryption DES-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 DES-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 65009 policy ISAKMP: encryption DES-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 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 crypto_isakmp_process_block:src:10.10.10.2, dest:10.10.10.1 spt:500 dpt:500 crypto_isakmp_process_block:src:10.10.10.2, dest:10.10.10.1 spt:500 dpt:500 ISAKMP : attributes being requested crypto_isakmp_process_block:src:10.10.10.2, dest:10.10.10.1 spt:500 dpt:500 ISAKMP (0): beginning Quick Mode exchange, M-ID of -582033986:dd4eddbbeIPSEC (key_engine): got a queue event... IPSEC(spi_response): getting spi 0x61cf8d08(1640992008) for SA from 10.10.10.2 to 10.10.10.1 for prot 3 crypto_isakmp_process_block:src:10.10.10.2, dest:10.10.10.1 spt:500 dpt:500 OAK_QM exchange oakley_process_quick_mode: OAK_QM_IDLE ISAKMP (0): processing SA payload. message ID = 3712933310 ISAKMP : Checking IPsec proposal 1 ISAKMP: transform 1, ESP_DES 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(validate_proposal_request): proposal part #1, (key eng. msg.) dest= 10.10.10.2, src= 10.10.10.1, dest_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), src_proxy= 10.10.10.1/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-des esp-md5-hmac , lifedur= 0s and 0kb, spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x4 ISAKMP (0): processing NONCE payload. message ID = 3712933310 ISAKMP (0): processing ID payload. message ID = 3712933310 ISAKMP (0): processing ID payload. message ID = 3712933310 ISAKMP (0): processing NOTIFY payload 24576 protocol 3 spi 1327036890, message ID = 3712933310 ISAKMP (0): processing responder lifetime ISAKMP (0): responder lifetime of 3600s ISAKMP (0): Creating IPsec SAs inbound SA from 10.10.10.2 to 10.10.10.1 (proxy 0.0.0.0 to 10.10.10.1) has spi 1640992008 and conn_id 1 and flags 4 lifetime of 3600 seconds lifetime of 4608000 kilobytes outbound SA from 10.10.10.1 to 10.10.10.2 (proxy 10.10.10.1 to 0.0.0.0) has spi 1327036890 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= 10.10.10.1, src= 10.10.10.2, dest_proxy= 10.10.10.1/255.255.255.255/0/0 (type=1), src_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), protocol= ESP, transform= esp-des esp-md5-hmac , lifedur= 3600s and 4608000kb, spi= 0x61cf8d08(1640992008), conn_id= 1, keysize= 0, flags= 0x4 IPSEC(initialize_sas): , (key eng. msg.) src= 10.10.10.1, dest= 10.10.10.2, src_proxy= 10.10.10.1/255.255.255.255/0/0 (type=1), dest_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), protocol= ESP, transform= esp-des esp-md5-hmac , lifedur= 3600s and 4608000kb, spi= 0x4f18f9da(1327036890), conn_id= 2, keysize= 0, flags= 0x4 **!--- The IPsec SAs shown above are for management purposes.** VPN Peer: IPSEC: Peer ip:10.10.10.2/500 Ref cnt incremented to:2 Total VPN Peers:1 VPN Peer: IPSEC: Peer ip:10.10.10.2/500 Ref cnt incremented to:3 Total VPN Peers:1 return status is IKMP_NO_ERROR ISAKMP (0): beginning Quick Mode exchange, M-ID of -419501328:e6feeaf0IPSEC (key_engine): got a queue event... IPSEC(spi_response): getting spi 0xf3d52246(4090831430) for SA from 10.10.10.2 to 10.10.10.1 for prot 3 crypto_isakmp_process_block:src:10.10.10.2, dest:10.10.10.1 spt:500 dpt:500 OAK_QM exchange oakley_process_quick_mode: OAK_QM_IDLE ISAKMP (0): processing SA payload. message ID = 3875465968 ISAKMP : Checking IPsec proposal 1 ISAKMP: transform 1, ESP_DES 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(validate_proposal_request): proposal part #1, (key eng. msg.) dest= 10.10.10.2,
src= 10.10.10.1, dest_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), src_proxy=
172.16.1.0/255.255.255.0/0/0 (type=4), protocol= ESP, transform= esp-des esp-md5-hmac , lifedur=
0s and 0kb, spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x4 ISAKMP (0): processing NONCE
payload. message ID = 3875465968 ISAKMP (0): processing ID payload. message ID = 3875465968
ISAKMP (0): processing ID payload. message ID = 3875465968 ISAKMP (0): processing NOTIFY payload
24576 protocol 3 spi 465396864, message ID = 3875465968 ISAKMP (0): processing responder
lifetime ISAKMP (0): responder lifetime of 3600s ISAKMP (0): Creating IPsec SAs inbound SA from
10.10.10.2 to 10.10.10.1 (proxy 0.0.0.0 to 172.16.1.0) has spi 4090831430 and conn_id 3 and
flags 4 lifetime of 3600 seconds lifetime of 4608000 kilobytes outbound SA from 10.10.10.1 to
10.10.10.2 (proxy 172.16.1.0 to 0.0.0.0) has spi 465396864 and conn_id 4 and flags 4 lifetime of
3600 seconds lifetime of 4608000 kilobytesIPSEC(key_engine): got a queue event...
IPSEC(initialize_sas): , (key eng. msg.) dest= 10.10.10.1, src= 10.10.10.2, dest_proxy=
172.16.1.0/255.255.255.0/0/0 (type=4), src_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), protocol= ESP,
transform= esp-des esp-md5-hmac , lifedur= 3600s and 4608000kb, spi= 0xf3d52246(4090831430),
conn_id= 3, keysize= 0, flags= 0x4 IPSEC(initialize_sas): , (key eng. msg.) src= 10.10.10.1,
dest= 10.10.10.2, src_proxy= 172.16.1.0/255.255.255.0/0/0 (type=4), dest_proxy=
0.0.0.0/0.0.0.0/0/0 (type=4), protocol= ESP, transform= esp-des esp-md5-hmac , lifedur= 3600s
and 4608000kb, spi= 0x1bbd6480(465396864), conn_id= 4, keysize= 0, flags= 0x4 !--- The IPsec SAs
shown above are for actual data traffic. VPN Peer: IPSEC: Peer ip:10.10.10.2/500 Ref cnt
incremented to:4 Total VPN Peers:1 VPN Peer: IPSEC: Peer ip:10.10.10.2/500 Ref cnt incremented
to:5 Total VPN Peers:1

```

أوامر تصحيح أخطاء IOS وعينة إخراج

IOS تصحيح أخطاء

ملاحظة: ارجع إلى [معلومات مهمة حول أوامر التصحيح](#) قبل استخدام أوامر debug.

- debug crypto ipSec—يعرض أحداث IPsec التفصيلية.
- debug crypto isakmp—يعرض الرسائل المتعلقة بأحداث IKE.
- debug crypto engine—يعرض حركة مرور البيانات التي يتم تشفيرها.

إخراج نموذج IOS

As soon as the vpnclient enable command is issued on the PIX, !--- the IOS device receives ---!
 .an IKE negotiation request

```

Jan 20 16:48:22.267: ISAKMP (0:0): received packet from 10.10.10.1 dport*
sport 500 Global (N) NEW 500

SA
,Jan 20 16:48:22.271: ISAKMP: Created a peer struct for 10.10.10.1*
peer port 500
Jan 20 16:48:22.271: ISAKMP: New peer created peer = 0x6758C6D0*
peer_handle = 0x80000026
,Jan 20 16:48:22.271: ISAKMP: Locking peer struct 0x6758C6D0*
refcount 1 for

crypto_isakmp_process_block
Jan 20 16:48:22.271: ISAKMP:(0):Setting client config settings 6679B340*
Jan 20 16:48:22.271: ISAKMP:(0):(Re)Setting client xauth list and state*
Jan 20 16:48:22.271: ISAKMP/xauth: initializing AAA request*
Jan 20 16:48:22.271: ISAKMP: local port 500, remote port 500*
Jan 20 16:48:22.271: insert sa successfully sa = 658E0874*
Jan 20 16:48:22.271: ISAKMP:(0): processing SA payload. message ID = 0*
Jan 20 16:48:22.271: ISAKMP:(0): processing ID payload. message ID = 0*
Jan 20 16:48:22.271: ISAKMP (0:0): ID payload*

```

```

next-payload : 13
type          : 11
group id      : hwclient
protocol      : 17
port         : 0
length       : 16
Jan 20 16:48:22.271: ISAKMP:(0):: peer matches *none* of the profiles*
Jan 20 16:48:22.271: ISAKMP:(0): processing vendor id payload*
Jan 20 16:48:22.271: ISAKMP:(0): vendor ID seems Unity/DPD but*
major 215 mismatch
Jan 20 16:48:22.271: ISAKMP:(0): vendor ID is XAUTH*
Jan 20 16:48:22.271: ISAKMP:(0): processing vendor id payload*
Jan 20 16:48:22.271: ISAKMP:(0): vendor ID is DPD*
Jan 20 16:48:22.271: ISAKMP:(0): processing vendor id payload*
Jan 20 16:48:22.271: ISAKMP:(0): claimed IOS but failed authentication*
Jan 20 16:48:22.271: ISAKMP:(0): processing vendor id payload*
Jan 20 16:48:22.271: ISAKMP:(0): vendor ID is Unity*
Jan 20 16:48:22.271: ISAKMP:(0): Authentication by xauth preshared*
Jan 20 16:48:22.271: ISAKMP:(0):Checking ISAKMP transform 1 against*
priority 10 policy
Jan 20 16:48:22.271: ISAKMP: encryption AES-CBC*
Jan 20 16:48:22.271: ISAKMP: keylength of 256*
Jan 20 16:48:22.271: ISAKMP: hash SHA*
Jan 20 16:48:22.271: ISAKMP: default group 2*
Jan 20 16:48:22.271: ISAKMP: auth XAUTHInitPreShared*
Jan 20 16:48:22.271: ISAKMP: life type in seconds*
Jan 20 16:48:22.271: ISAKMP: life duration (VPI) of 0x0 0x1 0x51 0x80*
Jan 20 16:48:22.271: ISAKMP:(0):Encryption algorithm offered does*
!not match policy
Jan 20 16:48:22.271: ISAKMP:(0):atts are not acceptable. Next payload is 3*
Jan 20 16:48:22.271: ISAKMP:(0):Checking ISAKMP transform 2 against*
priority 10 policy
Jan 20 16:48:22.271: ISAKMP: encryption AES-CBC*
Jan 20 16:48:22.275: ISAKMP: keylength of 256*
Jan 20 16:48:22.275: ISAKMP: hash MD5*
Jan 20 16:48:22.275: ISAKMP: default group 2*
Jan 20 16:48:22.275: ISAKMP: auth XAUTHInitPreShared*
Jan 20 16:48:22.275: ISAKMP: life type in seconds*
Jan 20 16:48:22.275: ISAKMP: life duration (VPI) of 0x0 0x1 0x51 0x80*
Jan 20 16:48:22.275: ISAKMP:(0):Encryption algorithm offered*
!does not match policy
Jan 20 16:48:22.275: ISAKMP:(0):atts are not acceptable. Next payload is 3*
Jan 20 16:48:22.275: ISAKMP:(0):Checking ISAKMP transform 3 against*
priority 10 policy
Jan 20 16:48:22.275: ISAKMP: encryption AES-CBC*
Jan 20 16:48:22.275: ISAKMP: keylength of 192*
Jan 20 16:48:22.275: ISAKMP: hash SHA*
Jan 20 16:48:22.275: ISAKMP: default group 2*
Jan 20 16:48:22.275: ISAKMP: auth XAUTHInitPreShared*
Jan 20 16:48:22.275: ISAKMP: life type in seconds*
Jan 20 16:48:22.275: ISAKMP: life duration (VPI) of 0x0 0x1 0x51 0x80*
Jan 20 16:48:22.275: ISAKMP:(0):Encryption algorithm offered*
!does not match policy
Jan 20 16:48:22.275: ISAKMP:(0):atts are not acceptable. Next payload is 3*
Jan 20 16:48:22.275: ISAKMP:(0):Checking ISAKMP transform 4 against*
priority 10 policy
Jan 20 16:48:22.275: ISAKMP: encryption AES-CBC*
Jan 20 16:48:22.275: ISAKMP: keylength of 192*
Jan 20 16:48:22.275: ISAKMP: hash MD5*
Jan 20 16:48:22.275: ISAKMP: default group 2*
Jan 20 16:48:22.275: ISAKMP: auth XAUTHInitPreShared*
Jan 20 16:48:22.275: ISAKMP: life type in seconds*
Jan 20 16:48:22.275: ISAKMP: life duration (VPI) of 0x0 0x1 0x51 0x80*
Jan 20 16:48:22.275: ISAKMP:(0):Encryption algorithm offered*
```

```

!does not match policy
Jan 20 16:48:22.275: ISAKMP:(0):atts are not acceptable. Next payload is 3*
Jan 20 16:48:22.275: ISAKMP:(0):Checking ISAKMP transform 5 against*
priority 10 policy
Jan 20 16:48:22.275: ISAKMP: encryption AES-CBC*
Jan 20 16:48:22.275: ISAKMP: keylength of 128*
Jan 20 16:48:22.275: ISAKMP: hash SHA*
Jan 20 16:48:22.275: ISAKMP: default group 2*
Jan 20 16:48:22.275: ISAKMP:(0):Encryption algorithm offered*
!does not match policy
Jan 20 16:48:22.275: ISAKMP:(0):atts are not acceptable. Next payload is 3*
Jan 20 16:48:22.275: ISAKMP:(0):Checking ISAKMP transform 6 against*
priority 10 policy
Jan 20 16:48:22.275: ISAKMP: encryption AES-CBC*
Jan 20 16:48:22.275: ISAKMP: keylength of 128*
Jan 20 16:48:22.275: ISAKMP: hash MD5.275: ISAKMP: auth XAUTHInitPreShared*
Jan 20 16:48:22.275: ISAKMP: life type in seconds*
Jan 20 16:48:22.275: ISAKMP: life duration (VPI) o*
Jan 20 16:48:22.275: ISAKMP: default group 2*
Jan 20 16:48:22.275: ISAKMP: auth XAUTHInitPreShared*
Jan 20 16:48:22.275: ISAKMP: life type in seconds*
Jan 20 16:48:22.275: ISAKMP: life duration (VPI) of 0x0 0x1 0x51 0x80*
Jan 20 16:48:22.275: ISAKMP:(0):Encryption algorithm offered*
!does not match policy
Jan 20 16:48:22.275: ISAKMP:(0):atts are not acceptable. Next payload is 3*
Jan 20 16:48:22.275: ISAKMP:(0):Checking ISAKMP transform 7 against*
priority 10 policy
Jan 20 16:48:22.275: ISAKMP: encryption 3DES-CBC*
Jan 20 16:48:22.275: ISAKMP: hash SHA*
Jan 20 16:48:22.275: ISAKMP: default group 2*
Jan 20 16:48:22.275: ISAKMP: auth XAUTHInitPreShared*
Jan 20 16:48:22.279: ISAKMP: life type in seconds*
Jan 20 16:48:22.279: ISAKMP: life duration (VPI) of 0x0 0x1 0x51 0x80*
Jan 20 16:48:22.279: ISAKMP:(0):Encryption algorithm offered*
!does not match policy
Jan 20 16:48:22.279: ISAKMP:(0):atts are not acceptable. Next payload is 3*
Jan 20 16:48:22.279: ISAKMP:(0):Checking ISAKMP transform 8 against*
priority 10 policy
Jan 20 16:48:22.279: ISAKMP: encryption 3DES-CBC*
Jan 20 16:48:22.279: ISAKMP: hash MD5*
Jan 20 16:48:22.279: ISAKMP: default group 2*
Jan 20 16:48:22.279: ISAKMP: auth XAUTHInitPreShared*
Jan 20 16:48:22.279: ISAKMP: life type in seconds*
Jan 20 16:48:22.279: ISAKMP: life duration (VPI) of 0x0 0x1 0x51 0x80*
Jan 20 16:48:22.279: ISAKMP:(0):Encryption algorithm offered*
!does not match policy
Jan 20 16:48:22.279: ISAKMP:(0):atts are not acceptable. Next payload is 3*
Jan 20 16:48:22.279: ISAKMP:(0):Checking ISAKMP transform 9 against*
priority 10 policy
Jan 20 16:48:22.279: ISAKMP: encryption DES-CBC*
Jan 20 16:48:22.279: ISAKMP: hash MD5*
Jan 20 16:48:22.279: ISAKMP: default group 2*
Jan 20 16:48:22.279: ISAKMP: auth XAUTHInitPreShared*
Jan 20 16:48:22.279: ISAKMP: life type in seconds*
Jan 20 16:48:22.279: ISAKMP: life duration (VPI) of 0x0 0x1 0x51 0x80*
Jan 20 16:48:22.279: ISAKMP:(0):atts are acceptable. Next payload is 3*

```

```

Both the IOS device and the PIX accept the policy for ISAKMP. *Jan 20 16:48:22.279: ---!
ISAKMP:(0): processing KE payload. message ID = 0 *Jan 20 16:48:22.279: crypto_engine: Create DH
shared secret *Jan 20 16:48:22.279: crypto_engine: Modular Exponentiation *Jan 20 16:48:22.319:
ISAKMP:(0): processing NONCE payload. message ID = 0 *Jan 20 16:48:22.319: ISAKMP:(0): vendor ID
is NAT-T v3 *Jan 20 16:48:22.319: ISAKMP:(0): vendor ID is NAT-T v2 *Jan 20 16:48:22.319:
ISAKMP:(0):Input = IKE_MESG_FROM_PEER, IKE_AM_EXCH *Jan 20 16:48:22.319: ISAKMP:(0):Old State =

```

IKE_READY New State = IKE_R_AM_AAA_AWAIT *Jan 20 16:48:22.319: crypto_engine: Create IKE SA *Jan 20 16:48:22.319: crypto engine: deleting DH phase 2 SW:38 *Jan 20 16:48:22.319: crypto_engine: Delete DH shared secret *Jan 20 16:48:22.319: ISAKMP:(1030): constructed NAT-T vendor-03 ID *Jan 20 16:48:22.319: ISAKMP:(1030):SA is doing pre-shared key authentication plus XAUTH using id type ID_IPV4_ADDR *Jan 20 16:48:22.323: ISAKMP (0:1030): ID payload next-payload : 10 type : 1 address : 10.10.10.2 protocol : 17 port : 0 length : 12 *Jan 20 16:48:22.323: ISAKMP:(1030):Total payload length: 12 *Jan 20 16:48:22.323: crypto_engine: Generate IKE hash *Jan 20 16:48:22.323: ISAKMP:(1030): sending packet to 10.10.10.1 my_port 500 peer_port 500 (R) AG_INIT_EXCH *Jan 20 16:48:22.323: ISAKMP:(1030):Input = IKE_MSG_FROM_AAA, PRESHARED_KEY_REPLY *Jan 20 16:48:22.323: ISAKMP:(1030):Old State = IKE_R_AM_AAA_AWAIT New State = IKE_R_AM2 *Jan 20 16:48:22.479: ISAKMP (0:1030): received packet from 10.10.10.1 dport 500 sport 500 Global (R) AG_INIT_EXCH *Jan 20 16:48:22.479: crypto_engine: Decrypt IKE packet *Jan 20 16:48:22.479: ISAKMP:received payload type 20 *Jan 20 16:48:22.479: ISAKMP:received payload type 20 *Jan 20 16:48:22.479: ISAKMP:(1030): processing HASH payload. message ID = 0 *Jan 20 16:48:22.479: crypto_engine: Generate IKE hash *Jan 20 16:48:22.483: ISAKMP:(1030): processing NOTIFY INITIAL_CONTACT protocol 1 spi 0, message ID = 0, sa = 658E0874 *Jan 20 16:48:22.483: ISAKMP:(1030):SA authentication status: authenticated *Jan 20 16:48:22.483: ISAKMP:(1030):SA has been authenticated with 10.10.10.1 *Jan 20 16:48:22.483: ISAKMP:(1030):SA authentication status: authenticated *Jan 20 16:48:22.483: ISAKMP:(1030): Process initial contact, bring down existing phase 1 and 2 SA's with local 10.10.10.2 remote 10.10.10.1 remote port 500 *Jan 20 16:48:22.483: ISAKMP:(1030):returning IP addr to the address pool *Jan 20 16:48:22.483: ISAKMP: Trying to insert a peer 10.10.10.2/10.10.10.1/500/, and inserted successfully 6758C6D0. *Jan 20 16:48:22.483: IPSEC(key_engine): got a queue event with 1 KMI message(s) *Jan 20 16:48:22.483: ISAKMP: set new node -1980405900 to CONF_XAUTH *Jan 20 16:48:22.483: crypto_engine: Generate IKE hash *Jan 20 16:48:22.483: ISAKMP:(1030):Sending NOTIFY RESPONDER_LIFETIME protocol 1 spi 1727476520, message ID = -1980405900 *Jan 20 16:48:22.483: crypto_engine: Encrypt IKE packet *Jan 20 16:48:22.483: ISAKMP:(1030): sending packet to 10.10.10.1 my_port 500 peer_port 500 (R) QM_IDLE *Jan 20 16:48:22.483: ISAKMP:(1030):purging node -1980405900 *Jan 20 16:48:22.483: ISAKMP: Sending phase 1 responder lifetime 86400 *Jan 20 16:48:22.483: ISAKMP:(1030):Input = IKE_MSG_FROM_PEER, IKE_AM_EXCH *Jan 20 16:48:22.483: ISAKMP:(1030):Old State = IKE_R_AM2 New State = IKE_P1_COMPLETE *Jan 20 16:48:22.483: ISAKMP:(1030):Need XAUTH *!--- The IOS device now processes the Extended Authentication phase !--- after Phase 1 is successful.* *Jan 20 16:48:22.483: ISAKMP: set new node -791275911 to CONF_XAUTH *Jan 20 16:48:22.487: ISAKMP/xauth: request attribute XAUTH_USER_NAME_V2 *Jan 20 16:48:22.487: ISAKMP/xauth: request attribute XAUTH_USER_PASSWORD_V2 *Jan 20 16:48:22.487: crypto_engine: Generate IKE hash *Jan 20 16:48:22.487: ISAKMP:(1030): initiating peer config to 10.10.10.1. ID = -791275911 *Jan 20 16:48:22.487: crypto_engine: Encrypt IKE packet *Jan 20 16:48:22.487: ISAKMP:(1030): sending packet to 10.10.10.1 my_port 500 peer_port 500 (R) CONF_XAUTH *Jan 20 16:48:22.487: ISAKMP:(1030):Input = IKE_MSG_INTERNAL, IKE_PHASE1_COMPLETE *Jan 20 16:48:22.487: ISAKMP:(1030):Old State = IKE_P1_COMPLETE New State = IKE_XAUTH_REQ_SENT *Jan 20 16:48:22.519: ISAKMP (0:1030): received packet from 10.10.10.1 dport 500 sport 500 Global (R) CONF_XAUTH *Jan 20 16:48:22.519: crypto_engine: Decrypt IKE packet *Jan 20 16:48:22.519: ISAKMP:(1030):processing transaction payload from 10.10.10.1. message ID = -791275911 *Jan 20 16:48:22.519: crypto_engine: Generate IKE hash *Jan 20 16:48:22.519: ISAKMP: Config payload REPLY *Jan 20 16:48:22.519: ISAKMP/xauth: reply attribute XAUTH_USER_NAME_V2 *Jan 20 16:48:22.519: ISAKMP/xauth: reply attribute XAUTH_USER_PASSWORD_V2 *Jan 20 16:48:22.519: ISAKMP:(1030):deleting node -791275911 error FALSE reason "Done with xauth request/reply exchange" *Jan 20 16:48:22.519: ISAKMP:(1030):Input = IKE_MSG_FROM_PEER, IKE_CFG_REPLY *Jan 20 16:48:22.519: ISAKMP:(1030):Old State = IKE_XAUTH_REQ_SENT New State = IKE_XAUTH_AAA_CONT_LOGIN_AWAIT *Jan 20 16:48:22.519: ISAKMP: set new node 44674085 to CONF_XAUTH *Jan 20 16:48:22.519: crypto_engine: Generate IKE hash *Jan 20 16:48:22.519: ISAKMP:(1030): initiating peer config to 10.10.10.1. ID = 44674085 *Jan 20 16:48:22.519: crypto_engine: Encrypt IKE packet *Jan 20 16:48:22.519: ISAKMP:(1030): sending packet to 10.10.10.1 my_port 500 peer_port 500 (R) CONF_XAUTH *Jan 20 16:48:22.519: ISAKMP:(1030):Input = IKE_MSG_FROM_AAA, IKE_AAA_CONT_LOGIN *Jan 20 16:48:22.519: ISAKMP:(1030):Old State = IKE_XAUTH_AAA_CONT_LOGIN_AWAIT New State = IKE_XAUTH_SET_SENT *Jan 20 16:48:22.571: ISAKMP (0:1030): received packet from 10.10.10.1 dport 500 sport 500 Global (R) CONF_XAUTH *Jan 20 16:48:22.571: crypto_engine: Decrypt IKE packet *Jan 20 16:48:22.571: ISAKMP:(1030):processing transaction payload from 10.10.10.1. message ID = 44674085 *Jan 20 16:48:22.571: crypto_engine: Generate IKE hash *Jan 20 16:48:22.571: ISAKMP: Config payload ACK *Jan 20 16:48:22.571: ISAKMP:(1030): XAUTH ACK Processed *Jan 20 16:48:22.571: ISAKMP:(1030):deleting node 44674085 error FALSE reason "Transaction mode done" *Jan 20 16:48:22.571: ISAKMP:(1030):Input = IKE_MSG_FROM_PEER, IKE_CFG_ACK *Jan 20 16:48:22.571: ISAKMP:(1030):Old State = IKE_XAUTH_SET_SENT New State = IKE_P1_COMPLETE *Jan 20 16:48:22.571: ISAKMP:(1030):Input =

IKE_MSG_INTERNAL, IKE_PHASE1_COMPLETE *Jan 20 16:48:22.571: ISAKMP:(1030):Old State = IKE_P1_COMPLETE New State = IKE_P1_COMPLETE !--- Extended authentication is complete, !--- and mode configuration is now processed. *Jan 20 16:48:22.619: ISAKMP (0:1030): received packet from 10.10.10.1 dport 500 sport 500 Global (R) QM_IDLE *Jan 20 16:48:22.619: ISAKMP: set new node - 2005047200 to QM_IDLE *Jan 20 16:48:22.619: crypto_engine: Decrypt IKE packet *Jan 20 16:48:22.623: ISAKMP:(1030):processing transaction payload from 10.10.10.1. message ID = - 2005047200 *Jan 20 16:48:22.623: crypto_engine: Generate IKE hash *Jan 20 16:48:22.623: ISAKMP: Config payload REQUEST *Jan 20 16:48:22.623: ISAKMP:(1030):checking request: *Jan 20 16:48:22.623: ISAKMP: DEFAULT_DOMAIN *Jan 20 16:48:22.623: ISAKMP: IP4_NBNS *Jan 20 16:48:22.623: ISAKMP: IP4_DNS *Jan 20 16:48:22.623: ISAKMP: SPLIT_INCLUDE *Jan 20 16:48:22.623: ISAKMP: SPLIT_DNS *Jan 20 16:48:22.623: ISAKMP: PFS *Jan 20 16:48:22.623: ISAKMP: CONFIG_MODE_UNKNOWN Unknown Attr: 0x7800 *Jan 20 16:48:22.623: ISAKMP: CONFIG_MODE_UNKNOWN Unknown Attr: 0x7801 *Jan 20 16:48:22.623: ISAKMP: CONFIG_MODE_UNKNOWN Unknown Attr: 0x7802 *Jan 20 16:48:22.623: ISAKMP: CONFIG_MODE_UNKNOWN Unknown Attr: 0x7803 *Jan 20 16:48:22.623: ISAKMP: CONFIG_MODE_UNKNOWN Unknown Attr: 0x7804 *Jan 20 16:48:22.623: ISAKMP: CONFIG_MODE_UNKNOWN Unknown Attr: 0x7805 *Jan 20 16:48:22.623: ISAKMP: CONFIG_MODE_UNKNOWN Unknown Attr: 0x7806 *Jan 20 16:48:22.623: ISAKMP: BACKUP_SERVER *Jan 20 16:48:22.623: ISAKMP: APPLICATION_VERSION *Jan 20 16:48:22.623: ISAKMP/author: Author request for group hw client successfully sent to AAA *Jan 20 16:48:22.623: ISAKMP:(1030):Input = IKE_MSG_FROM_PEER, IKE_CFG_REQUEST *Jan 20 16:48:22.623: ISAKMP:(1030):Old State = IKE_P1_COMPLETE New State = IKE_CONFIG_AUTHOR_AAA_AWAIT *Jan 20 16:48:22.623: ISAKMP:(1030):attributes sent in message: *Jan 20 16:48:22.623: ISAKMP: Sending DEFAULT_DOMAIN default domain name: cisco.com *Jan 20 16:48:22.623: ISAKMP: Sending IP4_NBNS server address: 172.22.1.102 *Jan 20 16:48:22.623: ISAKMP: Sending IP4_DNS server address: 172.22.1.101 *Jan 20 16:48:22.623: ISAKMP (0/1030): Unknown Attr: CONFIG_MODE_UNKNOWN (0x7800) *Jan 20 16:48:22.623: ISAKMP (0/1030): Unknown Attr: CONFIG_MODE_UNKNOWN (0x7801) *Jan 20 16:48:22.623: ISAKMP (0/1030): Unknown Attr: CONFIG_MODE_UNKNOWN (0x7802) *Jan 20 16:48:22.623: ISAKMP (0/1030): Unknown Attr: CONFIG_MODE_UNKNOWN (0x7803) *Jan 20 16:48:22.623: ISAKMP (0/1030): Unknown Attr: CONFIG_MODE_UNKNOWN (0x7804) *Jan 20 16:48:22.623: ISAKMP (0/1030): Unknown Attr: CONFIG_MODE_UNKNOWN (0x7805) *Jan 20 16:48:22.627: ISAKMP (0/1030): Unknown Attr: CONFIG_MODE_UNKNOWN (0x7806) *Jan 20 16:48:22.627: 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 *Jan 20 16:48:22.627: crypto_engine: Generate IKE hash *Jan 20 16:48:22.627: ISAKMP:(1030): responding to peer config from 10.10.10.1. ID = - 2005047200 *Jan 20 16:48:22.627: crypto_engine: Encrypt IKE packet *Jan 20 16:48:22.627: ISAKMP:(1030): sending packet to 10.10.10.1 my_port 500 peer_port 500 (R) CONF_ADDR *Jan 20 16:48:22.627: ISAKMP:(1030):deleting node -2005047200 error FALSE reason "No Error" *Jan 20 16:48:22.627: ISAKMP:(1030):Input = IKE_MSG_FROM_AAA, IKE_AAA_GROUP_ATTR *Jan 20 16:48:22.627: ISAKMP:(1030):Old State = IKE_CONFIG_AUTHOR_AAA_AWAIT New State = IKE_P1_COMPLETE *Jan 20 16:48:22.627: ISAKMP:(1030):Input = IKE_MSG_INTERNAL, IKE_PHASE1_COMPLETE *Jan 20 16:48:22.627: ISAKMP:(1030):Old State = IKE_P1_COMPLETE New State = IKE_P1_COMPLETE *Jan 20 16:48:27.695: ISAKMP (0:1030): received packet from 10.10.10.1 dport 500 sport 500 Global (R) QM_IDLE *Jan 20 16:48:27.695: ISAKMP: set new node 1887305923 to QM_IDLE *Jan 20 16:48:27.695: crypto_engine: Decrypt IKE packet *Jan 20 16:48:27.699: crypto_engine: Generate IKE hash *Jan 20 16:48:27.699: ISAKMP:(1030): processing HASH payload. message ID = 1887305923 *Jan 20 16:48:27.699: ISAKMP:(1030): processing SA payload. message ID = 1887305923 *Jan 20 16:48:27.699: ISAKMP:(1030):Checking IPsec proposal 1 *Jan 20 16:48:27.699: ISAKMP: transform 1, ESP_AES *Jan 20 16:48:27.699: ISAKMP: attributes in transform: *Jan 20 16:48:27.699: ISAKMP: encaps is 1 (Tunnel) *Jan 20 16:48:27.699: ISAKMP: SA life type in seconds *Jan 20 16:48:27.699: ISAKMP: SA life duration (basic) of 28800 *Jan 20 16:48:27.699: ISAKMP: SA life type in kilobytes *Jan 20 16:48:27.699: ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0 *Jan 20 16:48:27.699: ISAKMP: authenticator is HMAC-SHA *Jan 20 16:48:27.699: ISAKMP: key length is 256 *Jan 20 16:48:27.699: CryptoEngine0: validate proposal *Jan 20 16:48:27.699: ISAKMP:(1030):atts are acceptable. *Jan 20 16:48:27.699: IPSEC(validate_proposal_request): proposal part #1 *Jan 20 16:48:27.699: IPSEC(validate_proposal_request): proposal part #1, (key eng. msg.) INBOUND local= 10.10.10.2, remote= 10.10.10.1, local_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), remote_proxy= 10.10.10.1/255.255.255.255/0/0 (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 *Jan 20 16:48:27.699: IPSEC(crypto_ipsec_process_proposal): transform proposal not supported for identity: {esp-aes 256 esp-sha-hmac } *Jan 20 16:48:27.699: ISAKMP:(1030): IPsec policy invalidated proposal *Jan 20 16:48:27.699: ISAKMP:(1030):Checking IPsec proposal 2 *Jan 20 16:48:27.699: ISAKMP: transform 1, ESP_AES *Jan 20 16:48:27.699: ISAKMP: attributes in transform: *Jan 20 16:48:27.699: ISAKMP: encaps is 1 (Tunnel) *Jan 20 16:48:27.699: ISAKMP: SA life type in seconds *Jan 20 16:48:27.699: ISAKMP: SA life duration (basic) of 28800 *Jan 20

16:48:27.699: ISAKMP: SA life type in kilobytes *Jan 20 16:48:27.699: ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0 *Jan 20 16:48:27.699: ISAKMP: authenticator is HMAC-MD5 *Jan 20 16:48:27.699: ISAKMP: key length is 256 *Jan 20 16:48:27.699: CryptoEngine0: validate proposal *Jan 20 16:48:27.699: ISAKMP:(1030):atts are acceptable. *!--- Proceed for processing Phase 2.* *Jan 20 16:48:27.699: IPSEC(validate_proposal_request): proposal part #1 *Jan 20 16:48:27.699: IPSEC(validate_proposal_request): proposal part #1, (key eng. msg.) INBOUND local= 10.10.10.2, remote= 10.10.10.1, local_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), remote_proxy= 10.10.10.1/255.255.255.255/0/0 (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 *Jan 20 16:48:27.699: IPSEC(crypto_ipsec_process_proposal): transform proposal not supported for identity: {esp-aes 256 esp-md5-hmac } *Jan 20 16:48:27.699: ISAKMP:(1030): IPsec policy invalidated proposal *Jan 20 16:48:27.703: ISAKMP:(1030):Checking IPsec proposal 3 *Jan 20 16:48:27.703: ISAKMP: transform 1, ESP_AES *Jan 20 16:48:27.703: ISAKMP: attributes in transform: *Jan 20 16:48:27.703: ISAKMP: encaps is 1 (Tunnel) *Jan 20 16:48:27.703: ISAKMP: SA life type in seconds *Jan 20 16:48:27.703: ISAKMP: SA life duration (basic) of 28800 *Jan 20 16:48:27.703: ISAKMP: SA life type in kilobytes *Jan 20 16:48:27.703: ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0 *Jan 20 16:48:27.703: ISAKMP: authenticator is HMAC-SHA *Jan 20 16:48:27.703: ISAKMP: key length is 192 *Jan 20 16:48:27.703: CryptoEngine0: validate proposal *Jan 20 16:48:27.703: ISAKMP:(1030):atts are acceptable. *Jan 20 16:48:27.703: IPSEC(validate_proposal_request): proposal part #1 *Jan 20 16:48:27.703: IPSEC(validate_proposal_request): proposal part #1, (key eng. msg.) INBOUND local= 10.10.10.2, remote= 10.10.10.1, local_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), remote_proxy= 10.10.10.1/255.255.255.255/0/0 (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 *Jan 20 16:48:27.703: IPSEC(crypto_ipsec_process_proposal): transform proposal not supported for identity: {esp-aes 192 esp-sha-hmac } *Jan 20 16:48:27.703: ISAKMP:(1030): IPsec policy invalidated proposal *Jan 20 16:48:27.703: ISAKMP:(1030):Checking IPsec proposal 4 *Jan 20 16:48:27.703: ISAKMP: transform 1, ESP_AES *Jan 20 16:48:27.703: ISAKMP: attributes in transform: *Jan 20 16:48:27.703: ISAKMP: encaps is 1 (Tunnel) *Jan 20 16:48:27.703: ISAKMP: SA life type in seconds *Jan 20 16:48:27.703: ISAKMP: SA life duration (basic) of 28800 *Jan 20 16:48:27.703: ISAKMP: SA life type in kilobytes *Jan 20 16:48:27.703: ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0 *Jan 20 16:48:27.703: ISAKMP: authenticator is HMAC-MD5 *Jan 20 16:48:27.703: ISAKMP: key length is 192 *Jan 20 16:48:27.703: CryptoEngine0: validate proposal *Jan 20 16:48:27.703: ISAKMP:(1030):atts are acceptable. *Jan 20 16:48:27.703: IPSEC(validate_proposal_request): proposal part #1 *Jan 20 16:48:27.703: IPSEC(validate_proposal_request): proposal part #1, (key eng. msg.) INBOUND local= 10.10.10.2, remote= 10.10.10.1, local_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), remote_proxy= 10.10.10.1/255.255.255.255/0/0 (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 *Jan 20 16:48:27.703: IPSEC(crypto_ipsec_process_proposal): transform proposal not supported for identity: {esp-aes 192 esp-md5-hmac } *Jan 20 16:48:27.703: ISAKMP:(1030): IPsec policy invalidated proposal *Jan 20 16:48:27.703: ISAKMP:(1030):Checking IPsec proposal 5 *Jan 20 16:48:27.703: ISAKMP: transform 1, ESP_AES *Jan 20 16:48:27.703: ISAKMP: attributes in transform: *Jan 20 16:48:27.703: ISAKMP: encaps is 1 (Tunnel) *Jan 20 16:48:27.703: ISAKMP: SA life type in seconds *Jan 20 16:48:27.703: ISAKMP: SA life duration (basic) of 28800 *Jan 20 16:48:27.703: ISAKMP: SA life type in kilobytes *Jan 20 16:48:27.707: ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0 *Jan 20 16:48:27.707: ISAKMP: authenticator is HMAC-SHA *Jan 20 16:48:27.707: ISAKMP: key length is 128 *Jan 20 16:48:27.707: CryptoEngine0: validate proposal *Jan 20 16:48:27.707: ISAKMP:(1030):atts are acceptable. *Jan 20 16:48:27.707: IPSEC(validate_proposal_request): proposal part #1 *Jan 20 16:48:27.707: IPSEC(validate_proposal_request): proposal part #1, (key eng. msg.) INBOUND local= 10.10.10.2, remote= 10.10.10.1, local_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), remote_proxy= 10.10.10.1/255.255.255.255/0/0 (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 *Jan 20 16:48:27.707: IPSEC(crypto_ipsec_process_proposal): transform proposal not supported for identity: {esp-aes esp-sha-hmac } *Jan 20 16:48:27.707: ISAKMP:(1030): IPsec policy invalidated proposal *Jan 20 16:48:27.707: ISAKMP:(1030):Checking IPsec proposal 6 *Jan 20 16:48:27.707: ISAKMP: transform 1, ESP_AES *Jan 20 16:48:27.707: ISAKMP: attributes in transform: *Jan 20 16:48:27.707: ISAKMP: encaps is 1 (Tunnel) *Jan 20 16:48:27.707: ISAKMP: SA life type in seconds *Jan 20 16:48:27.707: ISAKMP: SA life duration (basic) of 28800 *Jan 20 16:48:27.707: ISAKMP: SA life type in kilobytes *Jan 20 16:48:27.707: ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0 *Jan 20 16:48:27.707: ISAKMP: authenticator is HMAC-MD5 *Jan 20 16:48:27.707: ISAKMP: key length is 128 *Jan 20 16:48:27.707: CryptoEngine0: validate proposal *Jan 20 16:48:27.707: ISAKMP:(1030):atts are acceptable. *Jan 20 16:48:27.707: IPSEC(validate_proposal_request):

proposal part #1 *Jan 20 16:48:27.707: IPSEC(validate_proposal_request): proposal part #1, (key eng. msg.) INBOUND local= 10.10.10.2, remote= 10.10.10.1, local_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), remote_proxy= 10.10.10.1/255.255.255.255/0/0 (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 *Jan 20 16:48:27.707: IPSEC(crypto_ipsec_process_proposal): transform proposal not supported for identity: {esp-aes esp-md5-hmac } *Jan 20 16:48:27.707: ISAKMP:(1030): IPsec policy invalidated proposal *Jan 20 16:48:27.707: ISAKMP:(1030):Checking IPsec proposal 7 *Jan 20 16:48:27.707: ISAKMP: transform 1, ESP_3DES *Jan 20 16:48:27.707: ISAKMP: attributes in transform: *Jan 20 16:48:27.707: ISAKMP: encaps is 1 (Tunnel) *Jan 20 16:48:27.707: ISAKMP: SA life type in seconds *Jan 20 16:48:27.707: ISAKMP: SA life duration (basic) of 28800 *Jan 20 16:48:27.707: ISAKMP: SA life type in kilobytes *Jan 20 16:48:27.707: ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0 *Jan 20 16:48:27.707: ISAKMP: authenticator is HMAC-SHA *Jan 20 16:48:27.711: CryptoEngine0: validate proposal *Jan 20 16:48:27.711: ISAKMP:(1030):atts are acceptable. *Jan 20 16:48:27.711: IPSEC(validate_proposal_request): proposal part #1 *Jan 20 16:48:27.711: IPSEC(validate_proposal_request): proposal part #1, (key eng. msg.) INBOUND local= 10.10.10.2, remote= 10.10.10.1, local_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), remote_proxy= 10.10.10.1/255.255.255.255/0/0 (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 *Jan 20 16:48:27.711: IPSEC(crypto_ipsec_process_proposal): transform proposal not supported for identity: {esp-3des esp-sha-hmac } *Jan 20 16:48:27.711: ISAKMP:(1030): IPsec policy invalidated proposal *Jan 20 16:48:27.711: ISAKMP:(1030):Checking IPsec proposal 8 *Jan 20 16:48:27.711: ISAKMP: transform 1, ESP_3DES *Jan 20 16:48:27.711: ISAKMP: attributes in transform: *Jan 20 16:48:27.711: ISAKMP: encaps is 1 (Tunnel) *Jan 20 16:48:27.711: ISAKMP: SA life type in seconds *Jan 20 16:48:27.711: ISAKMP: SA life duration (basic) of 28800 *Jan 20 16:48:27.711: ISAKMP: SA life type in kilobytes *Jan 20 16:48:27.711: ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0 *Jan 20 16:48:27.711: ISAKMP: authenticator is HMAC-MD5 *Jan 20 16:48:27.711: CryptoEngine0: validate proposal *Jan 20 16:48:27.711: ISAKMP:(1030):atts are acceptable. *Jan 20 16:48:27.711: IPSEC(validate_proposal_request): proposal part #1 *Jan 20 16:48:27.711: IPSEC(validate_proposal_request): proposal part #1, (key eng. msg.) INBOUND local= 10.10.10.2, remote= 10.10.10.1, local_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), remote_proxy= 10.10.10.1/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-3des esp-md5-hmac (Tunnel), lifedur= 0s and 0kb, spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x0 *Jan 20 16:48:27.715: IPSEC(crypto_ipsec_process_proposal): transform proposal not supported for identity: {esp-3des esp-md5-hmac } *Jan 20 16:48:27.715: ISAKMP:(1030): IPsec policy invalidated proposal *Jan 20 16:48:27.715: ISAKMP:(1030):Checking IPsec proposal 9 *Jan 20 16:48:27.715: ISAKMP: transform 1, ESP_DES *Jan 20 16:48:27.715: ISAKMP: attributes in transform: *Jan 20 16:48:27.715: ISAKMP: encaps is 1 (Tunnel) *Jan 20 16:48:27.715: ISAKMP: SA life type in seconds *Jan 20 16:48:27.715: ISAKMP: SA life duration (basic) of 28800 *Jan 20 16:48:27.715: ISAKMP: SA life type in kilobytes *Jan 20 16:48:27.715: ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0 *Jan 20 16:48:27.715: ISAKMP: authenticator is HMAC-MD5 *Jan 20 16:48:27.715: CryptoEngine0: validate proposal *Jan 20 16:48:27.715: ISAKMP:(1030):atts are acceptable. *Jan 20 16:48:27.715: IPSEC(validate_proposal_request): proposal part #1 *Jan 20 16:48:27.715: IPSEC(validate_proposal_request): proposal part #1, (key eng. msg.) INBOUND local= 10.10.10.2, remote= 10.10.10.1, local_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), remote_proxy= 10.10.10.1/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-des esp-md5-hmac (Tunnel), lifedur= 0s and 0kb, spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x0 *Jan 20 16:48:27.715: ISAKMP:(1030): processing NONCE payload. message ID = 1887305923 *Jan 20 16:48:27.715: ISAKMP:(1030): processing ID payload. message ID = 1887305923 *Jan 20 16:48:27.715: ISAKMP:(1030): processing ID payload. message ID = 1887305923 *Jan 20 16:48:27.715: ISAKMP:(1030): asking for 1 spis from ipsec *Jan 20 16:48:27.715: ISAKMP:(1030):Node 1887305923, Input = IKE_MESG_FROM_PEER, IKE_QM_EXCH *Jan 20 16:48:27.715: ISAKMP:(1030):Old State = IKE_QM_READY New State = IKE_QM_SPI_STARVE *Jan 20 16:48:27.719: IPSEC(key_engine): got a queue event with 1 KMI message(s) *Jan 20 16:48:27.719: IPSEC(spi_response): getting spi 185206738 for SA from 10.10.10.2 to 10.10.10.1 for prot 3 *Jan 20 16:48:27.719: crypto_engine: Generate IKE hash *Jan 20 16:48:27.719: crypto_engine: Generate IKE QM keys *Jan 20 16:48:27.719: crypto_engine: Create IPsec SA (by keys) *Jan 20 16:48:27.719: crypto_engine: Generate IKE QM keys *Jan 20 16:48:27.719: crypto_engine: Create IPsec SA (by keys) *Jan 20 16:48:27.719: ISAKMP:(1030): Creating IPsec SAs *Jan 20 16:48:27.719: inbound SA from 10.10.10.1 to 10.10.10.2 (f/i) 0/ 0 (proxy 10.10.10.1 to 0.0.0.0) *Jan 20 16:48:27.719: has spi 0xB0A07D2 and conn_id 0 *Jan 20 16:48:27.719: lifetime of 28800 seconds *Jan 20 16:48:27.719: lifetime of 4608000 kilobytes *Jan 20 16:48:27.719: outbound SA from 10.10.10.2 to 10.10.10.1 (f/i) 0/0 (proxy 0.0.0.0 to 10.10.10.1) *Jan 20 16:48:27.719: has spi 0xB22446D and conn_id 0 *Jan 20 16:48:27.719: lifetime of 28800 seconds *Jan 20 16:48:27.719: lifetime of 4608000 kilobytes *Jan 20 16:48:27.719: crypto_engine: Encrypt IKE packet *Jan 20 16:48:27.719:

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ISAKMP:(1030): sending packet to 10.10.10.1 my_port 500 peer_port 500 (R) QM_IDLE *Jan 20
16:48:27.719: ISAKMP:(1030):Node 1887305923, Input = IKE_MSG_FROM_IPSEC, IKE_SPI_REPLY *Jan 20
16:48:27.719: ISAKMP:(1030):Old State = IKE_QM_SPI_STARVE New State = IKE_QM_R_QM2 *Jan 20
16:48:27.719: IPSEC(key_engine): got a queue event with 1 KMI message(s) *Jan 20 16:48:27.723:
IPSec: Flow_switching Allocated flow for sibling 80000014 *Jan 20 16:48:27.723:
IPSEC(policy_db_add_ident): src 0.0.0.0, dest 10.10.10.1, dest_port 0 *Jan 20 16:48:27.723:
IPSEC(create_sa): sa created, (sa) sa_dest= 10.10.10.2, sa_proto= 50, sa_spi=
0xB0A07D2(185206738), sa_trans= esp-des esp-md5-hmac , sa_conn_id= 37 *Jan 20 16:48:27.723:
IPSEC(create_sa): sa created, (sa) sa_dest= 10.10.10.1, sa_proto= 50, sa_spi=
0xB22446D(186795117), sa_trans= esp-des esp-md5-hmac , sa_conn_id= 38 !--- The two IPSec SAs
shown above are for management purposes. *Jan 20 16:48:27.771: ISAKMP (0:1030): received packet
from 10.10.10.1 dport 500 sport 500 Global (R) QM_IDLE *Jan 20 16:48:27.771: crypto_engine:
Decrypt IKE packet *Jan 20 16:48:27.771: crypto_engine: Generate IKE hash *Jan 20 16:48:27.771:
ISAKMP:(1030):deleting node 1887305923 error FALSE reason "QM done (await)" *Jan 20
16:48:27.771: ISAKMP:(1030):Node 1887305923, Input = IKE_MSG_FROM_PEER, IKE_QM_EXCH *Jan 20
16:48:27.771: ISAKMP:(1030):Old State = IKE_QM_R_QM2 New State = IKE_QM_PHASE2_COMPLETE *Jan 20
16:48:27.771: IPSEC(key_engine): got a queue event with 1 KMI message(s) *Jan 20 16:48:27.771:
IPSEC(key_engine_enable_outbound): rec'd enable notify from ISAKMP *Jan 20 16:48:27.771:
IPSEC(key_engine_enable_outbound): enable SA with spi 186795117/50 *Jan 20 16:48:27.771:
IPSEC(update_current_outbound_sa): updated peer 10.10.10.1 current outbound sa to SPI B22446D
*Jan 20 16:48:27.771: ISAKMP (0:1030): received packet from 10.10.10.1 dport 500 sport 500
Global (R) QM_IDLE *Jan 20 16:48:27.771: ISAKMP: set new node -1259355083 to QM_IDLE *Jan 20
16:48:27.771: crypto_engine: Decrypt IKE packet *Jan 20 16:48:27.775: crypto_engine: Generate
IKE hash *Jan 20 16:48:27.775: ISAKMP:(1030): processing HASH payload. message ID = -1259355083
*Jan 20 16:48:27.775: ISAKMP:(1030): processing SA payload. message ID = -1259355083 *Jan 20
16:48:27.775: ISAKMP:(1030):Checking IPSec proposal 1 *Jan 20 16:48:27.775: ISAKMP: transform 1,
ESP_AES *Jan 20 16:48:27.775: ISAKMP: attributes in transform: *Jan 20 16:48:27.775: ISAKMP:
encaps is 1 (Tunnel) *Jan 20 16:48:27.775: ISAKMP: SA life type in seconds *Jan 20 16:48:27.775:
ISAKMP: SA life duration (basic) of 28800 *Jan 20 16:48:27.775: ISAKMP: SA life type in
kilobytes *Jan 20 16:48:27.775: ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0 *Jan 20
16:48:27.775: ISAKMP: authenticator is HMAC-SHA *Jan 20 16:48:27.775: ISAKMP: key length is 256
*Jan 20 16:48:27.775: CryptoEngine0: validate proposal *Jan 20 16:48:27.775: ISAKMP:(1030):atts
are acceptable. *Jan 20 16:48:27.775: IPSEC(validate_proposal_request): proposal part #1 *Jan 20
16:48:27.775: IPSEC(validate_proposal_request): proposal part #1, (key eng. msg.) INBOUND local=
10.10.10.2, remote= 10.10.10.1, local_proxy= 0.0.0.0/0.0.0.0/0 (type=4), remote_proxy=
172.16.1.0/255.255.255.0/0/0 (type=4), protocol= ESP, transform= esp-aes 256 esp-sha-hmac
(Tunnel), lifedur= 0s and 0kb, spi= 0x0(0), conn_id= 0, keysize= 256, flags= 0x0 *Jan 20
16:48:27.775: IPSEC(crypto_ipsec_process_proposal): transform proposal not supported for
identity: {esp-aes 256 esp-sha-hmac } *Jan 20 16:48:27.775: ISAKMP:(1030): IPSec policy
invalidated proposal *Jan 20 16:48:27.775: ISAKMP:(1030):Checking IPSec proposal 2 *Jan 20
16:48:27.775: ISAKMP: transform 1, ESP_AES *Jan 20 16:48:27.775: ISAKMP: attributes in
transform: *Jan 20 16:48:27.775: ISAKMP: encaps is 1 (Tunnel) *Jan 20 16:48:27.775: ISAKMP: SA
life type in seconds *Jan 20 16:48:27.775: ISAKMP: SA life duration (basic) of 28800 *Jan 20
16:48:27.775: ISAKMP: SA life type in kilobytes *Jan 20 16:48:27.775: ISAKMP: SA life duration
(VPI) of 0x0 0x46 0x50 0x0 *Jan 20 16:48:27.775: ISAKMP: authenticator is HMAC-MD5 *Jan 20
16:48:27.775: ISAKMP: key length is 256 *Jan 20 16:48:27.775: CryptoEngine0: validate proposal
*Jan 20 16:48:27.775: ISAKMP:(1030):atts are acceptable. *Jan 20 16:48:27.775:
IPSEC(validate_proposal_request): proposal part #1 *Jan 20 16:48:27.799: IPSEC(create_sa): sa
created, (sa) sa_dest= 10.10.10.2, sa_proto= 50, sa_spi= 0x990A0C2C(2567572524), sa_trans= esp-
des esp-md5-hmac , sa_conn_id= 39 *Jan 20 16:48:27.799: IPSEC(create_sa): sa created, (sa)
sa_dest= 10.10.10.1, sa_proto= 50, sa_spi= 0x9FBC4C0D(2679917581), sa_trans= esp-des esp-md5-
.hmac , sa_conn_id= 40 !--- The two IPSec SAs shown above are for actual data traffic

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معلومات ذات صلة

- [مفاوضة IPSec/بروتوكولات IKE](#)
- [أجهزة الأمان PIX 500 Series Security Appliances](#)
- [مراجع أوامر PIX](#)
- [طلبات التعليقات \(RFCs\)](#)
- [الدعم التقني والمستندات - Cisco Systems](#)

ةمچرتل هذه لوج

ةللأل تاي نقتل نمة ومچم مادختساب دن تسمل اذہ Cisco تچرت
ملاعلاء انء مچي فني مدختسمل معدى وتحم مي دقتل ليرشبل او
امك ةقيد نوك تنل ةللأل ةمچرت لصف انء ةظحال مچري. ةصاغل متهتبل ب
Cisco يلخت. فرتحم مچرت مامدقي يتل ةيفارتحال ةمچرتل عم لاعل او
ىل اءاد عوچرلاب يصوت وتامچرتل هذه ةقد نع اهتيل وئسم Cisco
Systems (رفوتم طبارل) يلصلأل يزيلچنل دن تسمل