PIX/ASA 7.x PIX-to-PIX Dynamic-to-Static IPsec VPN و NAT لعميل تكوين عم لاثم

المحتويات

المقدمة

في معظم الحالات، لا يستخدم PIX البعيد الذي يتصل ب PIX المركزي ترجمة عنوان الشبكة (NAT). بدلا من ذلك، يستخدم PIX البعيد عنوان IP ساكن إستاتيكي خارج العنوان. في حالة اتصال PIX المركزي الذي يشغل الإصدار x.7 والإصدارات الأحدث ب PIX بعيد باستخدام NAT، فإنه يكون نفس المكتب المنزلي الصغير مثل PIX 501 أو 506 المتصل بكبل أو مودم DSL باستخدام بروتوكول التحكم في المضيف الديناميكي (DHCP). لا يعمل كل من PIX 7.x والإصدارات الأحدث و ASDM (Cisco Adaptive Security Device Manager) على طراز PIX 501 أو 506. لذلك، على سبيل المثال، يفترض أن يكون PIX البعيد مع DHCP و NAT هو PIX 501 أو 506 التي تشغل رمز x.6. يتيح هذا التكوين ل PIX المركزي قبول إتصالات IPsec الديناميكية. يستخدم المحول عن بعد PIX NAT للانضمام إلى الأجهزة التي يتم توجيهها بشكل خاص ووراءها إلى الشبكة التي يتم توجيهها بشكل خاص خلف المحول (PIX) المركزي. يمكن ل PIX البعيد بدء الاتصالات ب PIX المركزي (الذي يعرف نقطة النهاية)، ولكن PIX المركزي لا يمكنه بدء الاتصالات ب PIX البعيد (لا يعرف نقطة النهاية).

في هذا التكوين العينة، Tiger هو PIX البعيد و Lion هو PIX المركزي. بما أن عنوان IP الخاص ب Tiger غير معروف، يجب تكوين Lion لقبول الاتصالات بشكل ديناميكي من أي مكان يعرف البطاقة البرية، والمفتاح المشترك مسبقا. يعرف Tiger حركة المرور التي سيتم تشفيرها (لأنها محددة بواسطة قائمة الوصول) وأين تقع نقطة نهاية Lion. يتعين على شركة Tiger أن تبدأ الاتصال. كلا جانب ينجز NAT و NAT 0 in order to تجاوزت NAT لحركة مرور IPsec.

وبالإضافة إلى ذلك، يتصل المستخدم البعيد في هذا التكوين ب PIX المركزي (Lion) باستخدام عميل Cisco VPN الإصدار x.4. يتعذر على المستخدم البعيد الاتصال ب PIX البعيد (Tiger) نظرا لأن كلا الجانبين قاما بتعيين عناوين IP بشكل ديناميكي ولا يعرفان مكان إرسال الطلب.

ارجع إلى تكوين PIX إلى PIX Dynamic-to-Static IPsec مع NAT و Cisco VPN Client لمعرفة المزيد حول

نفس السيناريو في PIX 6.x مع Cisco VPN Client 3.x.

المتطلبات الأساسية

المتطلبات

لا توجد متطلبات خاصة لهذا المستند.

المكونات المستخدمة

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

- برنامج جدار حماية Cisco PIX الإصدار x.7 والإصدارات الأحدث (برنامج PIX المركزي)
- برنامج جدار حماية Cisco PIX الإصدار 6.3.4 (PIX عن بعد)
- عميل شبكة VPN من Cisco، الإصدار x.4

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.

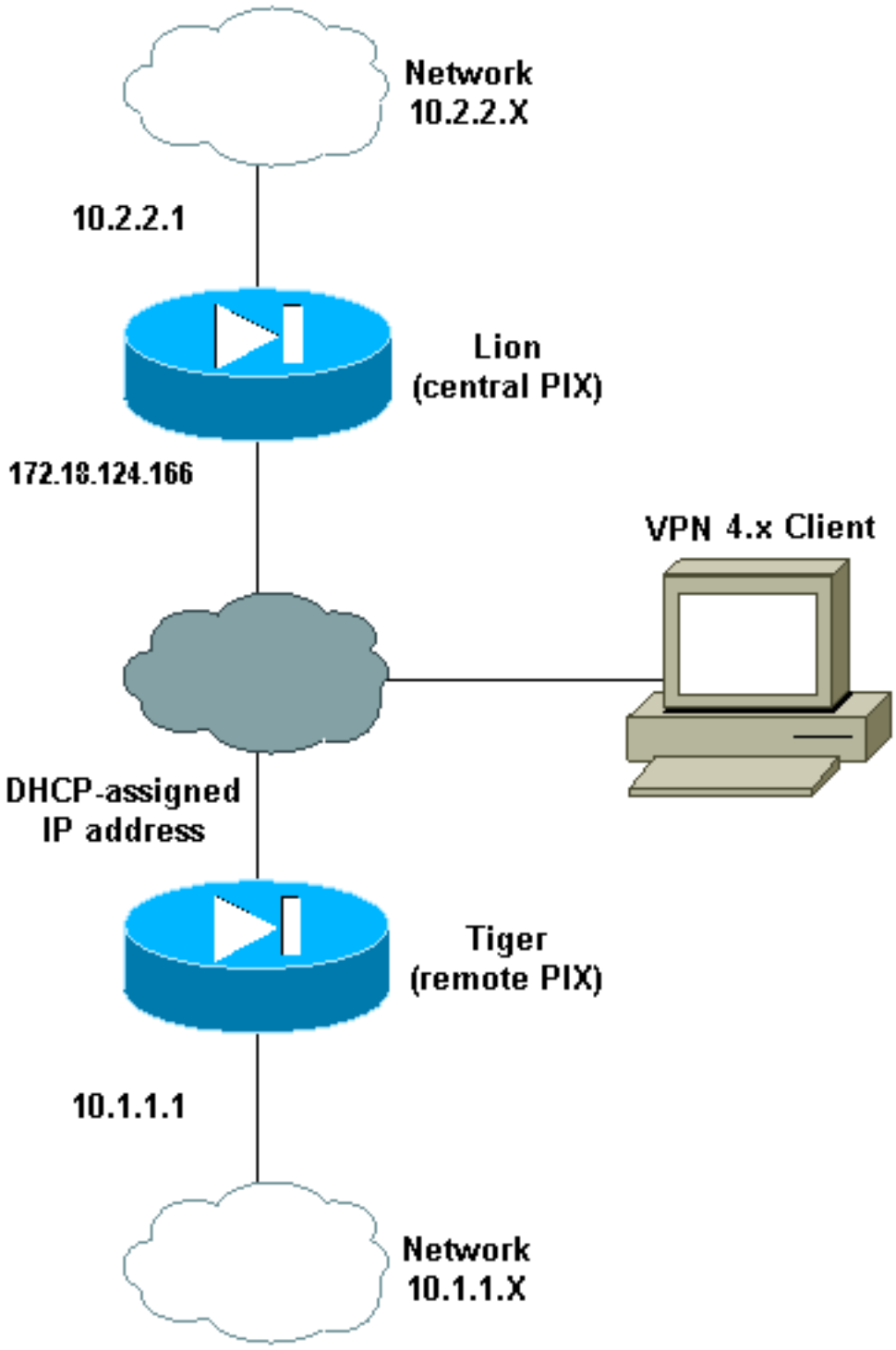
التكوين

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

ملاحظة: أستخدم أداة بحث الأوامر (للعملاء المسجلين فقط) للحصول على مزيد من المعلومات حول الأوامر المستخدمة في هذا القسم.

الرسم التخطيطي للشبكة

يستخدم هذا المستند إعداد الشبكة التالي:



التكوينات

يستخدم هذا المستند التكوينات التالية:

- أسد
- نمر

أسد

```
(PIX Version 7.0(0
names
!
interface Ethernet0
 nameif outside
```

```
                                    security-level 0
                ip address 172.18.124.166 255.255.255.0
                                                    !
                                    interface Ethernet1
                                         nameif inside
                                    security-level 100
                        ip address 10.2.2.1 255.255.255.0
                                                    !
                                    interface Ethernet2
                                              shutdown
                                          nameif intf2
                                      security-level 4
                                         no ip address
                                                    !
                                    interface Ethernet3
                                              shutdown
                                          nameif intf3
                                      security-level 6
                                         no ip address
                                                    !
                                    interface Ethernet4
                                              shutdown
                                          nameif intf4
                                      security-level 8
                                         no ip address
                                                    !
                                    interface Ethernet5
                                              shutdown
                                          nameif intf5
                                     security-level 10
                                         no ip address
                                                    !
                 enable password 8Ry2YjIyt7RRXU24 encrypted
                          passwd 2KFQnbNIdI.2KYOU encrypted
                                        hostname lion
                                  domain-name cisco.com
                            boot system flash:/image.bin
                                       ftp mode passive
                access-list 100 extended permit ip 10.2.2.0
                       255.255.255.0 10.1.1.0 255.255.255.0
                access-list 100 extended permit ip 10.2.2.0
                       255.255.255.0 10.3.3.0 255.255.255.0
                                      pager lines 24
                                    mtu outside 1500
                                     mtu inside 1500
                                      mtu intf2 1500
                                      mtu intf3 1500
                                      mtu intf4 1500
                                      mtu intf5 1500
                ip local pool clientpool 10.3.3.1-10.3.3.10
                                           no failover
                             monitor-interface outside
                              monitor-interface inside
                                monitor-interface intf2
                                monitor-interface intf3
                                monitor-interface intf4
                                monitor-interface intf5
                        asdm image flash:/asdm-501.bin
                                    asdm history enable
                                      arp timeout 14400
                                            nat-control
                          global (outside) 1 interface
                        nat (inside) 0 access-list 100
                        nat (inside) 1 0.0.0.0 0.0.0.0
```

```
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
icmp 0:00:02
timeout sunrpc 0:10:00 h323 0:05:00 h225 1:00:00 mgcp
0:05:00
timeout mgcp-pat 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
group-policy unityclient internal
group-policy unityclient attributes
wins-server value 10.1.1.3
dns-server value 10.1.1.3
vpn-idle-timeout 30
default-domain value cisco.com
user-authentication disable
username cisco password 3USUcOPFUiMCO4Jk encrypted
http server enable
http 0.0.0.0 0.0.0.0 outside
http 0.0.0.0 0.0.0.0 inside
no snmp-server location
no snmp-server contact
snmp-server community public
snmp-server enable traps snmp
crypto ipsec transform-set myset esp-des esp-md5-hmac
crypto dynamic-map cisco 1 set transform-set myset
crypto map dyn-map 20 ipsec-isakmp dynamic cisco
crypto map dyn-map interface outside
isakmp enable outside
isakmp policy 20 authentication pre-share
isakmp policy 20 encryption des
isakmp policy 20 hash md5
isakmp policy 20 group 2
isakmp policy 20 lifetime 3600
isakmp policy 65535 authentication pre-share
isakmp policy 65535 encryption 3des
isakmp policy 65535 hash sha
isakmp policy 65535 group 2
isakmp policy 65535 lifetime 86400
telnet timeout 5
ssh timeout 5
ssh version 1
console timeout 0
tunnel-group DefaultL2LGroup type ipsec-l2l
tunnel-group DefaultL2LGroup general-attributes
authentication-server-group none
tunnel-group DefaultL2LGroup ipsec-attributes
* pre-shared-key
tunnel-group unityclient type ipsec-ra
tunnel-group unityclient general-attributes
address-pool clientpool
authentication-server-group none
default-group-policy unityclient
tunnel-group unityclient ipsec-attributes
* pre-shared-key
!
class-map inspection_default
match default-inspection-traffic
!
!
policy-map global_policy
class inspection_default
inspect dns maximum-length 512
```

```
                                    inspect ftp
                                inspect h323 h225
                                 inspect h323 ras
                                     inspect http
                                  inspect netbios
                                     inspect rsh
                                    inspect rtsp
                                  inspect skinny
                                   inspect esmtp
                                  inspect sqlnet
                                  inspect sunrpc
                                    inspect tftp
                                     inspect sip
                                   inspect xdmcp
                                               !
                        service-policy global_policy global
                Cryptochecksum:4e20a2153437d60c7f01054808d41b42
                                            end :
```

نمر

```
                                    (PIX Version 6.3(4
                                interface ethernet0 auto
                                interface ethernet1 auto
                            interface ethernet2 auto shutdown
                            interface ethernet3 auto shutdown
                            interface ethernet4 auto shutdown
                            interface ethernet5 auto shutdown
                         nameif ethernet0 outside security0
                       nameif ethernet1 inside security100
                          nameif ethernet2 intf2 security4
                          nameif ethernet3 intf3 security6
                          nameif ethernet4 intf4 security8
                        nameif ethernet5 intf5 security10
            enable password 8Ry2YjIyt7RRXU24 encrypted
                     passwd 2KFQnbNIdI.2KYOU encrypted
                                    hostname tiger
                                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
    access-list 101 permit ip 10.1.1.0 255.255.255.0
                                    10.2.2.0 255.255.255.0
                                    pager lines 24
                                mtu outside 1500
                                 mtu inside 1500
                                   mtu intf2 1500
                                   mtu intf3 1500
                                   mtu intf4 1500
                                   mtu intf5 1500
 This command configures the outside interface !--- ---!
  as a DHCP client and it is assumed that the IP address
```

```
!--- 172.18.124.167 is assigned by the DHCP server. ip
address outside dhcp ip address inside 10.1.1.1
255.255.255.0 no ip address intf2 no ip address intf3 no
ip address intf4 no ip address intf5 ip audit info
action alarm ip audit attack action alarm no failover
failover timeout 0:00:00 failover poll 15 no failover ip
address outside no failover ip address inside no
failover ip address intf2 no failover ip address intf3
no failover ip address intf4 no failover ip address
intf5 pdm history enable arp timeout 14400 nat (inside)
0 access-list 101 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 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 sysopt
connection permit-ipsec crypto ipsec transform-set myset
esp-des esp-md5-hmac crypto map newmap 10 ipsec-isakmp
crypto map newmap 10 match address 101 crypto map newmap
10 set peer 172.18.124.166 crypto map newmap 10 set
transform-set myset crypto map newmap interface outside
isakmp enable outside isakmp key ******** address
172.18.124.166 netmask 255.255.255.255 isakmp policy 10
authentication pre-share isakmp policy 10 encryption des
isakmp policy 10 hash md5 isakmp policy 10 group 2
isakmp policy 10 lifetime 3600 telnet timeout 5 ssh
timeout 5 console timeout 0 terminal width 80
Cryptochecksum:906331b1b1ca162ea53e951588efb070 : end
```

التحقق من الصحة

استخدم هذا القسم لتأكيد عمل التكوين بشكل صحيح.

تدعم أداة مترجم الإخراج (للعملاءالمسجلين فقط) بعض أوامر **show**. استخدم أداة مترجم الإخراج (OIT) لعرض تحليل مُخرَج الأمر **show** .

ملاحظة: يجب عليك تنفيذ الأوامر **clear** في وضع التكوين.

- **مسح تشفير IPsec**—إعادة ضبط اقترانات IPsec بعد محاولات فاشلة للتفاوض على نفق VPN.
- **مسح التشفير isakmp sa**—إعادة ضبط اقترانات أمان بروتوكول إدارة المفاتيح وارتباط أمان بروتوكول أمان الإنترنت (ISAKMP) بعد محاولات التفاوض الفاشلة على نفق VPN.
- **show crypto engine ipsec**—يعرض الجلسات المشفرة.

استكشاف الأخطاء وإصلاحها

مفاتيح مشتركة مسبقا متطابقة

إذا لم يتم إنشاء نفق IPsec من شبكة LAN إلى شبكة LAN (L2L)، فتحقق مما إذا كان المفتاح المشترك مسبقا ل DefaultRAGgroup والمفتاح المشترك مسبقا ل DefaultL2LGgroup متشابهين. وإذا كان هذا هو الحال، فإن PIX/ASA ينهي النفق على DefaultRAGgroup أولا ومن المرجح أن يفشل نفق L2L بعد ذلك. تأكد من أن المفاتيح

المشتركة مسبقا الخاصة بمجموعتي النفق الافتراضيتين مختلفتين.

أوامر استكشاف الأخطاء وإصلاحها

تدعم أداة مترجم الإخراج (للعملاءالمسجلين فقط) بعض أوامر **show**. استخدم أداة مترجم الإخراج (OIT) لعرض تحليل مُخرَج الأمر **show** .

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

- **debug crypto ipSec**—يستخدم لمعرفة ما إذا كان العميل يفاوض جزء IPsec من اتصال VPN.
- **debug crypto isakmp** *[level]* — يستخدم لمعرفة ما إذا كان النظراء يتفاوضون على جزء ISAKMP من الشبكة الخاصة الظاهرية (VPN).

أمثلة إخراج تصحيح الأخطاء الجيدة

هذه أمثلة على إخراج أمر **تصحيح الأخطاء** الجيد:

- PIX المركزي (7.0.0)
- NAT الديناميكي ل PIX البعيد (6.3.4)
- VPN Client 4.0.5 على PIX 7.0 المركزي

PIX المركزي (7.0.0)

```
:[lion(config)# 2nd try, on central PIX from remote PIXApr 05 16:48:31 [IKEv1 DEBUG
                                        IP = 172.18.124.167, processing SA payload
  Apr 05 16:48:31 [IKEv1 DEBUG]: IP = 172.18.124.167, Oakley proposal is acceptable
              Apr 05 16:48:31 [IKEv1 DEBUG]: IP = 172.18.124.167, processing IKE SA
 Apr 05 16:48:31 [IKEv1 DEBUG]: IP = 172.18.124.167, IKE SA Proposal # 1, Transform
                                     acceptable  Matches global IKE entry # 3 1 #
 Apr 05 16:48:31 [IKEv1 DEBUG]: IP = 172.18.124.167, constructing ISA_SA for isakmp
 Apr 05 16:48:31 [IKEv1 DEBUG]: IP = 172.18.124.167, constructing Fragmentation VID
                                                 extended capabilities payload +
  (Apr 05 16:48:31 [IKEv1]: IP = 172.18.124.167, IKE DECODE SENDING Message (msgid=0
           with payloads : HDR + SA (1) + VENDOR (13) + NONE (0) total length : 104
 (Apr 05 16:48:32 [IKEv1]: IP = 172.18.124.167, IKE DECODE RECEIVED Message (msgid=0
 (with payloads : HDR + KE (4) + NONCE (10) + VENDOR (13) + VENDOR (13) +VENDOR (13
                                     VENDOR (13) + NONE (0) total length : 256 +
          Apr 05 16:48:32 [IKEv1 DEBUG]: IP = 172.18.124.167, processing ke payload
              Apr 05 16:48:32 [IKEv1 DEBUG]: IP = 172.18.124.167, processing ISA_KE
       Apr 05 16:48:32 [IKEv1 DEBUG]: IP = 172.18.124.167, processing nonce payload
         Apr 05 16:48:32 [IKEv1 DEBUG]: IP = 172.18.124.167, processing VID payload
          Apr 05 16:48:32 [IKEv1 DEBUG]: IP = 172.18.124.167, Received xauth V6 VID
         Apr 05 16:48:32 [IKEv1 DEBUG]: IP = 172.18.124.167, processing VID payload
               Apr 05 16:48:32 [IKEv1 DEBUG]: IP = 172.18.124.167, Received DPD VID
         Apr 05 16:48:32 [IKEv1 DEBUG]: IP = 172.18.124.167, processing VID payload
Apr 05 16:48:32 [IKEv1 DEBUG]: IP = 172.18.124.167, Received Cisco Unity client VID
         Apr 05 16:48:32 [IKEv1 DEBUG]: IP = 172.18.124.167, processing VID payload
   Apr 05 16:48:32 [IKEv1 DEBUG]: IP = 172.18.124.167, Processing IOS/PIX Vendor ID
                                 (payload (version: 1.0.0, capabilities: 00000025
        Apr 05 16:48:32 [IKEv1 DEBUG]: IP = 172.18.124.167, constructing ke payload
      Apr 05 16:48:32 [IKEv1 DEBUG]: IP = 172.18.124.167, constructing nonce payload
Apr 05 16:48:32 [IKEv1 DEBUG]: IP = 172.18.124.167, constructing Cisco Unity VID payload
   Apr 05 16:48:32 [IKEv1 DEBUG]: IP = 172.18.124.167, constructing xauth V6 VID payload
                     Apr 05 16:48:32 [IKEv1 DEBUG]: IP = 172.18.124.167, Send IOS VID
  Apr 05 16:48:32 [IKEv1 DEBUG]: IP = 172.18.124.167, Constructing ASA spoofing IOS
```

(Vendor ID payload (version: 1.0.0, capabilities: 20000001
Apr 05 16:48:32 [IKEv1 DEBUG]: IP = 172.18.124.167, constructing VID payload
Apr 05 16:48:32 [IKEv1 DEBUG]: IP = 172.18.124.167, Send Altiga/Cisco VPN3000/Cisco
ASA GW VID
Apr 05 16:48:32 [IKEv1]: IP = 172.18.124.167, Connection landed on tunnel_group
DefaultL2LGroup
,Apr 05 16:48:32 [IKEv1 DEBUG]: Group = DefaultL2LGroup, IP = 172.18.124.167
...Generating keys for Responder
Apr 05 16:48:32 [IKEv1]: IP = 172.18.124.167, IKE DECODE SENDING Message
(msgid=0) with payloads : HDR + KE (4) + NONCE (10) + VENDOR (13) + VENDOR (13)
VENDOR (13) + VENDOR (13) + NONE (0) total length : 256 +
Apr 05 16:48:32 [IKEv1]: IP = 172.18.124.167, IKE DECODE RECEIVED Message (msg
id=0) with payloads : HDR + ID (5) + HASH (8) + NONE (0) total length : 71
,Apr 05 16:48:32 [IKEv1 DEBUG]: Group = DefaultL2LGroup, IP = 172.18.124.167
Processing ID
,Apr 05 16:48:32 [IKEv1 DEBUG]: Group = DefaultL2LGroup, IP = 172.18.124.167
processing hash
,Apr 05 16:48:32 [IKEv1 DEBUG]: Group = DefaultL2LGroup, IP = 172.18.124.167
computing hash
Apr 05 16:48:32 [IKEv1]: IP = 172.18.124.167, Connection landed on tunnel_group
DefaultL2LGroup
,Apr 05 16:48:32 [IKEv1 DEBUG]: Group = DefaultL2LGroup, IP = 172.18.124.167
constructing ID
,Apr 05 16:48:32 [IKEv1 DEBUG]: Group = DefaultL2LGroup, IP = 172.18.124.167
construct hash payload
,Apr 05 16:48:32 [IKEv1 DEBUG]: Group = DefaultL2LGroup, IP = 172.18.124.167
computing hash
Apr 05 16:48:32 [IKEv1 DEBUG]: IP = 172.18.124.167, Constructing IOS keep
.alive payload: proposal=32767/32767 sec
,Apr 05 16:48:32 [IKEv1 DEBUG]: Group = DefaultL2LGroup, IP = 172.18.124.167
constructing dpd vid payload
Apr 05 16:48:32 [IKEv1]: IP = 172.18.124.167, IKE DECODE SENDING Message
(msgid=0) with payloads : HDR + ID (5) + HASH (8) + IOS KEEPALIVE (14)
VENDOR (13) + NONE (0) total length : 102 +
Apr 05 16:48:33 [IKEv1]: IP = 172.18.124.167, IKE DECODE RECEIVED Message
(msgid=ba80c56e) with payloads : HDR + HASH (8) + NOTIFY (11) + NONE (0)
total length : 76
,Apr 05 16:48:33 [IKEv1 DEBUG]: Group = DefaultL2LGroup, IP = 172.18.124.167
processing hash
,Apr 05 16:48:33 [IKEv1 DEBUG]: Group = DefaultL2LGroup, IP = 172.18.124.167
Processing Notify payload
Apr 05 16:48:33 [IKEv1]: Received unexpected event EV_ACTIVATE_NEW_SA in
state MM_TM_INIT_MODECFG_H
,Apr 05 16:48:33 [IKEv1 DEBUG]: Group = DefaultL2LGroup, IP = 172.18.124.167
Delay Quick Mode processing, Cert/Trans Exch/RM DSID in progress
,Apr 05 16:48:33 [IKEv1 DEBUG]: Group = DefaultL2LGroup, IP = 172.18.124.167
Resume Quick Mode processing, Cert/Trans Exch/RM DSID completed
Apr 05 16:48:33 [IKEv1]: Group = DefaultL2LGroup, IP = 172.18.124.167, PHASE 1COMPLETED
Apr 05 16:48:33 [IKEv1]: IP = 172.18.124.167, Keep-alive type for this connection: DPD
,Apr 05 16:48:33 [IKEv1 DEBUG]: Group = DefaultL2LGroup, IP = 172.18.124.167
(Starting phase 1 rekey timer: 3420000 (ms
Apr 05 16:48:33 [IKEv1]: IP = 172.18.124.167, IKE DECODE RECEIVED Message
msgid=20c2120e) with payloads : HDR + HASH (8) + SA (1) + NONCE (10) + ID)
ID (5) + NONE (0) total length : 164 + (5)
,Apr 05 16:48:33 [IKEv1 DEBUG]: Group = DefaultL2LGroup, IP = 172.18.124.167
processing hash
,Apr 05 16:48:33 [IKEv1 DEBUG]: Group = DefaultL2LGroup, IP = 172.18.124.167
processing SA payload
,Apr 05 16:48:33 [IKEv1 DEBUG]: Group = DefaultL2LGroup, IP = 172.18.124.167
processing nonce payload
,Apr 05 16:48:33 [IKEv1 DEBUG]: Group = DefaultL2LGroup, IP = 172.18.124.167
Processing ID
,Apr 05 16:48:33 [IKEv1]: Group = DefaultL2LGroup, IP = 172.18.124.167
,Received remote IP Proxy Subnet data in ID Payload: Address 10.1.1.0

```
                                                Mask 255.255.255.0, Protocol 0, Port 0
        ,Apr 05 16:48:33 [IKEv1 DEBUG]: Group = DefaultL2LGroup, IP = 172.18.124.167
                                                                      Processing ID
              ,Apr 05 16:48:33 [IKEv1]: Group = DefaultL2LGroup, IP = 172.18.124.167
            ,Received local IP Proxy Subnet data in ID Payload:   Address 10.2.2.0
                                                Mask 255.255.255.0, Protocol 0, Port 0
                       Apr 05 16:48:33 [IKEv1]: QM IsRekeyed old sa not found by addr
              ,Apr 05 16:48:33 [IKEv1]: Group = DefaultL2LGroup, IP = 172.18.124.167
                                             IKE Remote Peer configured for SA: cisco
              ,Apr 05 16:48:33 [IKEv1]: Group = DefaultL2LGroup, IP = 172.18.124.167
                                                               processing IPSEC SA
        ,Apr 05 16:48:33 [IKEv1 DEBUG]: Group = DefaultL2LGroup, IP = 172.18.124.167
IPSec SA Proposal # 1, Transform # 1 acceptable  Matches global IPSec SA entry # 1
              ,Apr 05 16:48:33 [IKEv1]: Group = DefaultL2LGroup, IP = 172.18.124.167
                                                              !IKE: requesting SPI
       Apr 05 16:48:33 [IKEv1 DEBUG]: IKE got SPI from key engine: SPI = 0xd5243861
        ,Apr 05 16:48:33 [IKEv1 DEBUG]: Group = DefaultL2LGroup, IP = 172.18.124.167
                                                       oakley constucting quick mode
        ,Apr 05 16:48:33 [IKEv1 DEBUG]: Group = DefaultL2LGroup, IP = 172.18.124.167
                                                     constructing blank hash
        ,Apr 05 16:48:33 [IKEv1 DEBUG]: Group = DefaultL2LGroup, IP = 172.18.124.167
                                                       constructing ISA_SA for ipsec
        ,Apr 05 16:48:33 [IKEv1 DEBUG]: Group = DefaultL2LGroup, IP = 172.18.124.167
                                                  constructing ipsec nonce payload
        ,Apr 05 16:48:33 [IKEv1 DEBUG]: Group = DefaultL2LGroup, IP = 172.18.124.167
                                                     constructing proxy ID
        ,Apr 05 16:48:33 [IKEv1 DEBUG]: Group = DefaultL2LGroup, IP = 172.18.124.167
                                                    :Transmitting Proxy Id
                     Remote subnet: 10.1.1.0  Mask 255.255.255.0 Protocol 0  Port 0
                     Local subnet:  10.2.2.0  mask 255.255.255.0 Protocol 0  Port 0
        ,Apr 05 16:48:33 [IKEv1 DEBUG]: Group = DefaultL2LGroup, IP = 172.18.124.167
                                                      constructing qm hash
           Apr 05 16:48:33 [IKEv1]: IP = 172.18.124.167, IKE DECODE SENDING Message
           + (msgid=20c2120e) with payloads : HDR + HASH (8) + SA (1) + NONCE (10)
                                        ID (5) + ID (5) + NONE (0) total length : 164
          Apr 05 16:48:33 [IKEv1]: IP = 172.18.124.167, IKE DECODE RECEIVED Message
       msgid=20c2120e) with payloads : HDR + HASH (8) + NONE (0) total length : 48)
        ,Apr 05 16:48:33 [IKEv1 DEBUG]: Group = DefaultL2LGroup, IP = 172.18.124.167
                                                         processing hash
        ,Apr 05 16:48:33 [IKEv1 DEBUG]: Group = DefaultL2LGroup, IP = 172.18.124.167
                                                      loading all IPSEC SAs
        ,Apr 05 16:48:33 [IKEv1 DEBUG]: Group = DefaultL2LGroup, IP = 172.18.124.167
                                                    !Generating Quick Mode Key
        ,Apr 05 16:48:33 [IKEv1 DEBUG]: Group = DefaultL2LGroup, IP = 172.18.124.167
                                                    !Generating Quick Mode Key
              ,Apr 05 16:48:33 [IKEv1]: Group = DefaultL2LGroup, IP = 172.18.124.167
               ,Security negotiation complete for User (DefaultL2LGroup)  Responder
                                    Inbound SPI = 0xd5243861, Outbound SPI = 0x7bb11ead
       Apr 05 16:48:33 [IKEv1 DEBUG]: IKE got a KEY_ADD msg for SA: SPI = 0x7bb11ead
              Apr 05 16:48:33 [IKEv1 DEBUG]: pitcher: rcv KEY_UPDATE, spi 0xd5243861
              ,Apr 05 16:48:33 [IKEv1]: Group = DefaultL2LGroup, IP = 172.18.124.167
                                                 (PHASE 2 COMPLETED (msgid=20c2120e
```

NAT الديناميكي ل PIX البعيد (6.3.4)

```
                                                                  #(tiger(config
                                                ISAKMP (0): beginning Main Mode exchange

  crypto_isakmp_process_block:src:172.18.124.166, dest:172.18.124.167 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:      encryption DES-CBC
                                                ISAKMP:      hash MD5
                                                ISAKMP:      default group 2
                                                ISAKMP:      auth pre-share
                                                ISAKMP:      life type in seconds
                                                ISAKMP:      life duration (basic) of 3600
                                    ISAKMP (0): atts are acceptable. Next payload is 0
                                    ISAKMP (0): processing vendor id payload

                    ISAKMP (0): SA is doing pre-shared key authentication using id type
                                    ID_FQDN return status is IKMP_NO_ERROR
                    crypto_isakmp_process_block:src:172.18.124.166, dest:172.18.124.167
                                    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): received xauth v6 vendor id
                                    ISAKMP (0): processing vendor id payload
                                    !ISAKMP (0): speaking to another IOS box
                                    ISAKMP (0): processing vendor id payload
                                ISAKMP (0): speaking to a VPN3000 concentrator
                                                ISAKMP (0): ID payload
                                                next-payload : 8
                                                type         : 2
                                                protocol     : 17
                                                port         : 500
                                                length       : 19
                                    ISAKMP (0): Total payload length: 23
                                                return status is IKMP_NO_ERROR
    crypto_isakmp_process_block:src:172.18.124.166, dest:172.18.124.167 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): processing vendor id payload

                                ISAKMP (0): remote peer supports dead peer detection

                                    ISAKMP (0): SA has been authenticated

:(ISAKMP (0): beginning Quick Mode exchange, M-ID of 549589518:20c2120eIPSEC(key_engine
                                                ...got a queue event
                        IPSEC(spi_response): getting spi 0x7bb11ead(2075205293) for SA
                            from  172.18.124.166 to  172.18.124.167 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:172.18.124.166/500 Total VPN Peers:1
VPN Peer: ISAKMP: Peer ip:172.18.124.166/500 Ref cnt incremented to:1 Total VPN Peers:1
    crypto_isakmp_process_block:src:172.18.124.166, dest:172.18.124.167 spt:500 dpt:500
                                                OAK_QM exchange
                                                :oakley_process_quick_mode
                                                OAK_QM_IDLE
                        ISAKMP (0): processing SA payload. message ID = 549589518

                                    ISAKMP : Checking IPSec proposal 1

                                                ISAKMP: transform 1, ESP_DES
                                    :ISAKMP:   attributes in transform
                                    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:      encaps is 1
                                                          ISAKMP:      authenticator is HMAC-MD5
        ,ISAKMP (0): atts are acceptable.IPSEC(validate_proposal_request): proposal part #1
                                  ,key eng. msg.) dest= 172.18.124.166, src= 172.18.124.167)
                                          ,(dest_proxy= 10.2.2.0/255.255.255.0/0/0 (type=4
                                           ,(src_proxy= 10.1.1.0/255.255.255.0/0/0 (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 = 549589518

                                     ISAKMP (0): processing ID payload. message ID = 549589518
                                     ISAKMP (0): processing ID payload. message ID = 549589518
                                                                ISAKMP (0): Creating IPSec SAs
    (inbound SA from  172.18.124.166 to  172.18.124.167 (proxy 10.2.2.0 to 10.1.1.0
                                        has spi 2075205293 and conn_id 1 and flags 4
                                                          lifetime of 28800 seconds
                                                       lifetime of 4608000 kilobytes
   (outbound SA from  172.18.124.167 to  172.18.124.166 (proxy 10.1.1.0 to 10.2.2.0
                                        has spi 3575920737 and conn_id 2 and flags 4
                                                          lifetime of 28800 seconds
             ...lifetime of 4608000 kilobytesIPSEC(key_engine): got a queue event
                                                                , :(IPSEC(initialize_sas
                                  ,key eng. msg.) dest= 172.18.124.167, src= 172.18.124.166)
                                          ,(dest_proxy= 10.1.1.0/255.255.255.0/0/0 (type=4
                                           ,(src_proxy= 10.2.2.0/255.255.255.0/0/0 (type=4
                                          , protocol= ESP, transform= esp-des esp-md5-hmac
                                                                       ,lifedur= 28800s and 4608000kb
, :(spi= 0x7bb11ead(2075205293), conn_id= 1, keysize= 0, flags= 0x4IPSEC(initialize_sas
                                  ,key eng. msg.) src= 172.18.124.167, dest= 172.18.124.166)
                                           ,(src_proxy= 10.1.1.0/255.255.255.0/0/0 (type=4
                                          ,(dest_proxy= 10.2.2.0/255.255.255.0/0/0 (type=4
                                          , protocol= ESP, transform= esp-des esp-md5-hmac
                                                                       ,lifedur= 28800s and 4608000kb
                        spi= 0xd5243861(3575920737), conn_id= 2, keysize= 0, flags= 0x4

     VPN Peer: IPSEC: Peer ip:172.18.124.166/500 Ref cnt incremented to:2 Total VPN Peers:1
     VPN Peer: IPSEC: Peer ip:172.18.124.166/500 Ref cnt incremented to:3 Total VPN Peers:1
                                                                return status is IKMP_NO_ERROR
```

VPN Client 4.0.5 على PIX 7.0 المركزي

```
     lion(config)# Apr 05 16:49:56 [IKEv1 DEBUG]: IP = 64.102.51.191, processing SA payload
                   Apr 05 16:49:56 [IKEv1 DEBUG]: IP = 64.102.51.191, processing ke payload
                       Apr 05 16:49:56 [IKEv1 DEBUG]: IP = 64.102.51.191, processing ISA_KE
                 Apr 05 16:49:56 [IKEv1 DEBUG]: IP = 64.102.51.191, processing nonce payload
                           Apr 05 16:49:56 [IKEv1 DEBUG]: IP = 64.102.51.191, Processing ID
                    Apr 05 16:49:56 [IKEv1 DEBUG]: IP = 64.102.51.191, processing VID payload
                     Apr 05 16:49:56 [IKEv1 DEBUG]: IP = 64.102.51.191, Received xauth V6 VID
                    Apr 05 16:49:56 [IKEv1 DEBUG]: IP = 64.102.51.191, processing VID payload
                          Apr 05 16:49:56 [IKEv1 DEBUG]: IP = 64.102.51.191, Received DPD VID
                    Apr 05 16:49:56 [IKEv1 DEBUG]: IP = 64.102.51.191, processing VID payload
        Apr 05 16:49:56 [IKEv1 DEBUG]: IP = 64.102.51.191, Received NAT-Traversal ver02 VID
                    Apr 05 16:49:56 [IKEv1 DEBUG]: IP = 64.102.51.191, processing VID payload
                Apr 05 16:49:56 [IKEv1 DEBUG]: IP = 64.102.51.191, Received Fragmentation VID
     Apr 05 16:49:56 [IKEv1 DEBUG]: IP = 64.102.51.191, IKE Peer included IKE fragmentation
                           capability flags:  Main Mode:        True  Aggressive Mode:  False
                    Apr 05 16:49:56 [IKEv1 DEBUG]: IP = 64.102.51.191, processing VID payload
         Apr 05 16:49:56 [IKEv1 DEBUG]: IP = 64.102.51.191, Received Cisco Unity client VID
  Apr 05 16:49:56 [IKEv1]: IP = 64.102.51.191, Connection landed on tunnel_group unityclient
   Apr 05 16:49:56 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191, processing IKE SA
,Apr 05 16:49:56 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191, IKE SA Proposal # 1
```

Transform # 14 acceptable Matches global IKE entry # 3
Apr 05 16:49:56 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191, constructing ISA_SA for isakmp
,Apr 05 16:49:56 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191 constructing ke payload
,Apr 05 16:49:56 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191 constructing nonce payload
,Apr 05 16:49:56 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191 ...Generating keys for Responder
,Apr 05 16:49:56 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191 constructing ID
,Apr 05 16:49:56 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191 construct hash payload
,Apr 05 16:49:56 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191 computing hash
,Apr 05 16:49:56 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191 constructing Cisco Unity VID payload
,Apr 05 16:49:56 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191 constructing xauth V6 VID payload
,Apr 05 16:49:56 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191 constructing dpd vid payload
,Apr 05 16:49:56 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191 constructing Fragmentation VID + extended capabilities payload
,Apr 05 16:49:56 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191 constructing VID payload
,Apr 05 16:49:56 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191 Send Altiga/Cisco VPN3000/Cisco ASA GW VID
Apr 05 16:49:56 [IKEv1]: IP = 64.102.51.191, IKE DECODE SENDING Message + (msgid=0) with payloads : HDR + SA (1) + KE (4) + NONCE (10) + ID (5) HASH (8) + VENDOR (13) + VENDOR (13) + VENDOR (13) + VENDOR (13) + VENDOR NONE (0) total length : 378 + (13)
Apr 05 16:49:56 [IKEv1]: IP = 64.102.51.191, IKE DECODE RECEIVED Message + (msgid=0) with payloads : HDR + HASH (8) + NOTIFY (11) + VENDOR (13) VENDOR (13) + NONE (0) total length : 116
Apr 05 16:49:56 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191, processing hash
Apr 05 16:49:56 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191, computing hash
,Apr 05 16:49:56 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191 Processing Notify payload
,Apr 05 16:49:56 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191 processing VID payload
,Apr 05 16:49:56 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191 (Processing IOS/PIX Vendor ID payload (version: 1.0.0, capabilities: 00000408
,Apr 05 16:49:56 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191 processing VID payload
,Apr 05 16:49:56 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191 Received Cisco Unity client VID
Apr 05 16:49:56 [IKEv1]: IP = 64.102.51.191, IKE DECODE RECEIVED Message (msgid=a0bb428) with payloads : HDR + HASH (8) + ATTR (14) + NONE (0) total length: 196
!Apr 05 16:49:56 [IKEv1 DEBUG]: process_attr(): Enter
Apr 05 16:49:56 [IKEv1 DEBUG]: Processing cfg Request attributes
!Apr 05 16:49:56 [IKEv1 DEBUG]: MODE_CFG: Received request for IPV4 address
!Apr 05 16:49:56 [IKEv1 DEBUG]: MODE_CFG: Received request for IPV4 net mask
!Apr 05 16:49:56 [IKEv1 DEBUG]: MODE_CFG: Received request for DNS server address
!Apr 05 16:49:56 [IKEv1 DEBUG]: MODE_CFG: Received request for WINS server address
Apr 05 16:49:56 [IKEv1]: Group = unityclient, IP = 64.102.51.191, Received unsupported transaction mode attribute: 5
!Apr 05 16:49:56 [IKEv1 DEBUG]: MODE_CFG: Received request for Banner
!Apr 05 16:49:56 [IKEv1 DEBUG]: MODE_CFG: Received request for Save PW setting
!Apr 05 16:49:56 [IKEv1 DEBUG]: MODE_CFG: Received request for Default Domain Name
!Apr 05 16:49:56 [IKEv1 DEBUG]: MODE_CFG: Received request for Split Tunnel List
!Apr 05 16:49:56 [IKEv1 DEBUG]: MODE_CFG: Received request for Split DNS
!Apr 05 16:49:56 [IKEv1 DEBUG]: MODE_CFG: Received request for PFS setting
!Apr 05 16:49:56 [IKEv1 DEBUG]: MODE_CFG: Received request for backup ip-sec peer list

!Apr 05 16:49:56 [IKEv1 DEBUG]: MODE_CFG: Received request for Application Version
Apr 05 16:49:56 [IKEv1]: Group = unityclient, IP = 64.102.51.191, Client Type: WinNT
(Client Application Version: 4.0.5 (Rel
!Apr 05 16:49:56 [IKEv1 DEBUG]: MODE_CFG: Received request for FWTYPE
Apr 05 16:49:56 [IKEv1 DEBUG]: MODE_CFG: Received request for DHCP hostname
!for DDNS is: tthotus-xp
!Apr 05 16:49:56 [IKEv1 DEBUG]: MODE_CFG: Received request for UDP Port
,Apr 05 16:49:56 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
constructing blank hash
,Apr 05 16:49:56 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
constructing qm hash
Apr 05 16:49:56 [IKEv1]: IP = 64.102.51.191, IKE DECODE SENDING Message
(msgid=a0bb428) with payloads : HDR + HASH (8) + ATTR (14) + NONE (0)
total length : 157
,Apr 05 16:49:56 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
Delay Quick Mode processing, Cert/Trans Exch/RM DSID in progress
,Apr 05 16:49:56 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
Resume Quick Mode processing, Cert/Trans Exch/RM DSID completed
Apr 05 16:49:56 [IKEv1]: Group = unityclient, IP = 64.102.51.191, PHASE 1 COMPLETED
Apr 05 16:49:56 [IKEv1]: IP = 64.102.51.191, Keep-alive type for this connection: DPD
,Apr 05 16:49:56 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
(Starting phase 1 rekey timer: 3420000 (ms
,Apr 05 16:49:56 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
sending notify message
,Apr 05 16:49:56 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
constructing blank hash
,Apr 05 16:49:56 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
constructing qm hash
Apr 05 16:49:56 [IKEv1]: IP = 64.102.51.191, IKE DECODE SENDING Message
msgid=9be7674c) with payloads : HDR + HASH (8) + NOTIFY (11) + NONE)
total length : 84 (0)
Apr 05 16:49:57 [IKEv1]: IP = 64.102.51.191, IKE DECODE RECEIVED Message
(msgid=833e7945) with payloads : HDR + HASH (8) + SA (1) + NONCE (10)
ID (5) + ID (5) + NONE (0) total length : 1022 +
Apr 05 16:49:57 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191, processing hash
,Apr 05 16:49:57 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
processing SA payload
,Apr 05 16:49:57 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
processing nonce payload
Apr 05 16:49:57 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191, Processing ID
,Apr 05 16:49:57 [IKEv1]: Group = unityclient, IP = 64.102.51.191
Received remote Proxy Host data in ID Payload: Address 10.3.3.1, Protocol 0, Port 0
Apr 05 16:49:57 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191, Processing ID
,Apr 05 16:49:57 [IKEv1]: Group = unityclient, IP = 64.102.51.191
,Received local IP Proxy Subnet data in ID Payload: Address 0.0.0.0
Mask 0.0.0.0, Protocol 0, Port 0
Apr 05 16:49:57 [IKEv1]: QM IsRekeyed old sa not found by addr
,Apr 05 16:49:57 [IKEv1]: Group = unityclient, IP = 64.102.51.191
IKE Remote Peer configured for SA: cisco
,Apr 05 16:49:57 [IKEv1]: Group = unityclient, IP = 64.102.51.191
processing IPSEC SA
,Apr 05 16:49:57 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
IPSecSA Proposal # 14, Transform # 1 acceptable Matches global IPSec SA entry # 1
!Apr 05 16:49:57 [IKEv1]: Group = unityclient, IP = 64.102.51.191, IKE: requesting SPI
Apr 05 16:49:57 [IKEv1 DEBUG]: IKE got SPI from key engine: SPI = 0x05953824
,Apr 05 16:49:57 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
oakley constucting quick mode
,Apr 05 16:49:57 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
constructing blank hash
,Apr 05 16:49:57 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
constructing ISA_SA for ipsec
,Apr 05 16:49:57 [IKEv1]: Group = unityclient, IP = 64.102.51.191
Overriding Initiator's IPSec rekeying duration from 2147483 to 28800 seconds
,Apr 05 16:49:57 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191

```
                                                    constructing ipsec nonce payload
                ,Apr 05 16:49:57 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
                                                          constructing proxy ID
                ,Apr 05 16:49:57 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
                                                       :Transmitting Proxy Id
                                             Remote host: 10.3.3.1  Protocol 0  Port 0
                                 Local subnet:  0.0.0.0  mask 0.0.0.0 Protocol 0  Port 0
                ,Apr 05 16:49:57 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
                                  Sending RESPONDER LIFETIME notification to Initiator
                ,Apr 05 16:49:57 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
                                                          constructing qm hash
               Apr 05 16:49:57 [IKEv1]: IP = 64.102.51.191, IKE DECODE SENDING Message
                (msgid=833e7945) with payloads : HDR + HASH (8) + SA (1) + NONCE (10)
                        ID (5) + ID (5) + NOTIFY (11) + NONE (0) total length : 176 +
             Apr 05 16:49:57 [IKEv1]: IP = 64.102.51.191, IKE DECODE RECEIVED Message
           msgid=833e7945) with payloads : HDR + HASH (8) + NONE (0) total length : 48)
                ,Apr 05 16:49:57 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
                                                            processing hash
                ,Apr 05 16:49:57 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
                                                          loading all IPSEC SAs
                ,Apr 05 16:49:57 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
                                                    !Generating Quick Mode Key
                ,Apr 05 16:49:57 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
                                                    !Generating Quick Mode Key
                     ,Apr 05 16:49:57 [IKEv1]: Group = unityclient, IP = 64.102.51.191
                     ,Security negotiation complete for User (unityclient)  Responder
                                  Inbound SPI = 0x05953824, Outbound SPI = 0xd08c6486
           Apr 05 16:49:57 [IKEv1 DEBUG]: IKE got a KEY_ADD msg for SA: SPI = 0xd08c6486
                   Apr 05 16:49:57 [IKEv1 DEBUG]: pitcher: rcv KEY_UPDATE, spi 0x5953824
                       ,Apr 05 16:49:57 [IKEv1]: Group = unityclient, IP = 64.102.51.191
                                     Adding static route for client address: 10.3.3.1
          Apr 05 16:49:57 [IKEv1]: Group = unityclient, IP = 64.102.51.191, PHASE 2 COMP
                                                          (LETED (msgid=833e7945
                Apr 05 16:50:07 [IKEv1]: IP = 64.102.51.191, IKE DECODE RECEIVED Message
                   msgid=403ee701) with payloads : HDR + HASH (8) + NOTIFY (11) + NONE)
                                                          total length : 80 (0)
                ,Apr 05 16:50:07 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
                                                            processing hash
                ,Apr 05 16:50:07 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
                                                       Processing Notify payload
                ,Apr 05 16:50:07 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
                     (Received keep-alive of type DPD R-U-THERE (seq number 0x4b55b6e4
                ,Apr 05 16:50:07 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
                  (Sending keep-alive of type DPD R-U-THERE-ACK (seq number 0x4b55b6e4
                ,Apr 05 16:50:07 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
                                                         constructing blank hash
                ,Apr 05 16:50:07 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
                                                          constructing qm hash
               Apr 05 16:50:07 [IKEv1]: IP = 64.102.51.191, IKE DECODE SENDING Message
                  msgid=78998a29) with payloads : HDR + HASH (8) + NOTIFY (11) + NONE)
                                                          total length : 80 (0)
               Apr 05 16:50:17 [IKEv1]: IP = 64.102.51.191, IKE DECODE RECEIVED Message
              (msgid=dba719e9) with payloads : HDR + HASH (8) + NOTIFY (11) + NONE (0)
                                                            total length : 80
Apr 05 16:50:17 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191, processing hash
                ,Apr 05 16:50:17 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
                                                       Processing Notify payload
                ,Apr 05 16:50:17 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
                     (Received keep-alive of type DPD R-U-THERE (seq number 0x4b55b6e5
                ,Apr 05 16:50:17 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
                  (Sending keep-alive of type DPD R-U-THERE-ACK (seq number 0x4b55b6e5
                ,Apr 05 16:50:17 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
                                                         constructing blank hash
                ,Apr 05 16:50:17 [IKEv1 DEBUG]: Group = unityclient, IP = 64.102.51.191
```

```
constructing qm hash
Apr 05 16:50:17 [IKEv1]: IP = 64.102.51.191, IKE DECODE SENDING Message
msgid=40456779) with payloads : HDR + HASH (8) + NOTIFY (11) + NONE)
total length : 80 (0)
```

معلومات ذات صلة

- دعم منتجات أجهزة الأمان القابلة للتكيف ASA 5500 Series من Cisco
- برنامج جدار حماية Cisco PIX
- مراجع أوامر جدار حماية PIX الآمن من Cisco
- الإعلامات الميدانية لمنتج الأمان (بما في ذلك PIX)
- طلبات التعليقات (RFCs)
- 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).