

PIX-to-PIX 6.x : Easy VPN (NEM) の設定例

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概要

このドキュメントでは、PIX Easy VPN リモート ハードウェア クライアントと PIX Easy VPN サーバ間の IPsec の設定例について紹介します。PIX の Easy VPN Remote 機能は、PIX バージョン 6.2 で導入され、ハードウェア クライアントまたは EzVPN クライアントとも呼ばれます。Cisco Easy VPN サーバは、PIX ソフトウェア バージョン 6.0 以降でサポートされています。

セキュリティアプライアンスがソフトウェアバージョン7.xで稼働する同じシナリオの詳細については、『[ASA 5500をサーバとして使用するPIX/ASA 7.x Easy VPN\(NEM\)の設定例](#)』を参照してください。

Cisco 871 ルータが Easy VPN リモートとして動作するような同様のシナリオの詳細については、『[ASA 5500 をサーバ、Cisco 871 を Easy VPN Remote として使用する PIX/ASA 7.x Easy VPN の設定例](#)』を参照してください。

Cisco VPN 3000 Concentrator が Easy VPN サーバとして動作するような同様のシナリオの詳細については、『[VPN 3000 Concentrator を使用した PIX 501/506 シリーズ セキュリティ アプライアンス上の VPN ハードウェア クライアントの設定例](#)』を参照してください。

Cisco IOS®ルータがEasy VPNサーバとして機能する同様のシナリオの詳細については、『[拡張認証を使用したネットワーク拡張モードのIOSルータに対するPIX 501/506 Easy VPNリモートの設定例](#)』を参照してください。

前提条件

要件

この設定を行う前に、次の要件が満たされていることを確認します。

- PIX Easy VPN Remote Hardware Clientが、PIXソフトウェアバージョン6.2以降が稼働するPIX 501またはPIX 506/506Eであることを確認します。
- 使用している Easy VPN サーバは、PIX ソフトウェア バージョン 6.0 以降が稼働しているPIX ファイアウォールである。

使用するコンポーネント

このドキュメントの情報は、次のソフトウェアとハードウェアのバージョンに基づいています。

- PIX Easy VPN Remote Hardware Clientは、PIXソフトウェアバージョン6.3(1)が稼働するPIX 501です。
- Easy VPNサーバは、PIXソフトウェアバージョン6.3(1)が稼働するPIX 515です。

このドキュメントの情報は、特定のラボ環境にあるデバイスに基づいて作成されました。このドキュメントで使用するすべてのデバイスは、初期（デフォルト）設定の状態から起動しています。対象のネットワークが実稼働中である場合には、どのようなコマンドについても、その潜在的な影響について確実に理解しておく必要があります。

表記法

ドキュメント表記の詳細については、『[シスコ テクニカル ティップスの表記法](#)』を参照してください。

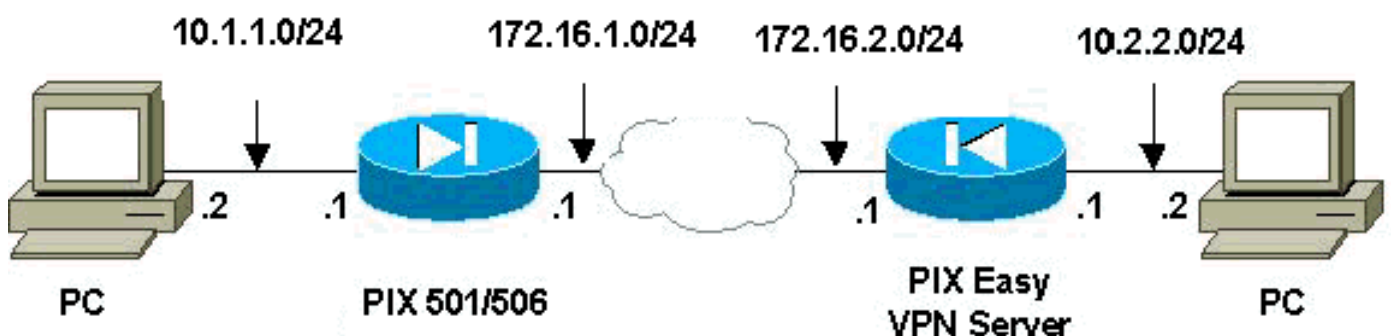
設定

このセクションでは、このドキュメントで説明する機能を設定するために必要な情報を提供しています。

注：このセクションで使用されているコマンドの詳細を調べるには、Command Lookup Tool（登録ユーザ専用）を参照してください。一部ツールについては、ゲスト登録のお客様にはアクセスできない場合がありますことをご了承ください。

ネットワーク図

このドキュメントでは、次のネットワーク セットアップを使用します。



設定

このドキュメントでは、次の構成を使用します。

- [PIX Easy VPN サーバ](#)
- [PIX Easy VPN リモートハードウェアクライアント](#)

PIX Easy VPN サーバ

```
pix515#write terminal
Building configuration...
: Saved
:
PIX Version 6.3(1)
!--- Specify speed and duplex settings. 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 pix515 fixup protocol ftp 21 fixup
protocol h323 h225 1720 fixup protocol h323 ras 1718-
1719 fixup protocol http 80 fixup protocol ils 389 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 names !--- Specify split tunnelling access list and
"nonat" access list. access-list 101 permit ip 10.2.2.0
255.255.255.0 10.1.1.0 255.255.255.0 pager lines 24 mtu
outside 1500 mtu inside 1500 mtu intf2 1500 mtu intf3
1500 mtu intf4 1500 mtu intf5 1500 !--- Define IP
address for the PIX's inside and outside interfaces. ip
address outside 172.16.2.1 255.255.255.0 ip address
inside 10.2.2.1 255.255.255.0 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 ip
local pool ippool 10.3.3.1-10.3.3.254 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 !---
Configure Network Address Translation (NAT)/ !--- Port
Address Translation (PAT) for regular traffic, !--- as
well as NAT for IPsec traffic. global (outside) 1
interface nat (inside) 0 access-list 101 nat (inside) 1
0.0.0.0 0.0.0.0 0 0 !--- Define the outside router as
the default gateway. !--- Typically this is the IP
address of your !--- Internet service provider's (ISP)
router. route outside 0.0.0.0 0.0.0.0 172.16.2.2 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 uauth 0:05:00 absolute aaa-server TACACS+
protocol tacacs+ aaa-server RADIUS protocol radius 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 !--- Configure IPsec transform
set and dynamic crypto map. crypto ipsec transform-set
myset esp-aes esp-md5-hmac crypto dynamic-map dynmap 10
set transform-set myset crypto map mymap 10 ipsec-isakmp
dynamic dynmap !--- Apply crypto map to the outside
interface. crypto map mymap interface outside !---
Configure Phase 1 Internet Security Association !-- and
Key Management Protocol (ISAKMP) parameters. isakmp
enable outside isakmp identity address isakmp policy 10
authentication pre-share isakmp policy 10 encryption aes
isakmp policy 10 hash md5 isakmp policy 10 group 2
isakmp policy 10 lifetime 86400 !--- Configure VPNGroup
parameters, to be sent down to the client. vpnngroup
mygroup address-pool ippool vpnngroup mygroup dns-server
10.2.2.2 vpnngroup mygroup wins-server 10.2.2.2 vpnngroup
mygroup default-domain cisco.com vpnngroup mygroup split-
tunnel 101 vpnngroup mygroup idle-time 1800 vpnngroup
mygroup password ***** vpnngroup idle-time idle-time
1800 telnet timeout 5 ssh timeout 5 console timeout 0
terminal width 80
Cryptochecksum:67106d7a5a3aa3da0caaeaa93b9fc8d6 : end
[OK] pix515#

```

PIX Easy VPNリモートハードウェアクライアント

```

pix501#write terminal
Building configuration...
: Saved
:
PIX Version 6.3(1)
!--- Specify speed and duplex settings. interface
ethernet0 auto interface ethernet1 100full nameif
ethernet0 outside security0 nameif ethernet1 inside
security100 enable password 8Ry2YjIyt7RRXU24 encrypted
passwd 2KFQnbNIdI.2KYOU encrypted hostname pix501 fixup
protocol ftp 21 fixup protocol h323 h225 1720 fixup
protocol h323 ras 1718-1719 fixup protocol http 80 fixup
protocol ils 389 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 names pager lines 24 mtu
outside 1500 mtu inside 1500 !--- Define IP address for
the PIX's inside and outside interfaces. ip address
outside 172.16.1.1 255.255.255.0 ip address inside
10.1.1.1 255.255.255.0 ip audit info action alarm ip
audit attack action alarm pdm history enable arp timeout
14400 !--- Configure NAT for traffic that is not
encrypted. global (outside) 1 interface nat (inside) 1
0.0.0.0 0.0.0.0 0 0 !--- 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
0.0.0.0 172.16.1.2 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 uauth 0:05:00 absolute aaa-
server TACACS+ protocol tacacs+ aaa-server RADIUS
protocol radius 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 Easy VPN Remote parameters. vpnclient server
172.16.2.1 vpnclient mode network-extension-mode

```

```
vpnclient vpnngroup mygroup password ***** !--- Enable
the VPN Client. !--- (This automatically initiates the
IPSec tunnel to the server.) vpnclient enable terminal
width 80 Cryptochecksum:b8242b410ad8e3b372018cd1cff77f91
: end [OK]
```

確認

ここでは、設定が正常に機能しているかどうかを確認します。

[アウトプット インタープリタ ツール \(登録ユーザ専用 \) \(OIT \)](#) は、特定の show コマンドをサポートします。OIT を使用して、show コマンドの出力の分析を表示します。

[PIX Easy VPNサーバのshowコマンドと出力例](#)

- **show crypto isakmp sa** : ピアにおける現在のインターネット鍵交換 (IKE) セキュリティ アソシエーション (SA) をすべて表示します。

```
pix515#show crypto isakmp sa
Total      : 1
Embryonic  : 0
          dst          src          state      pending    created
          172.16.2.1    172.16.1.1    QM_IDLE    0          2
pix515#
```

- **show crypto ipsec sa** : ピア間に構築された IPSec SA を表示します。

```
pix515#show crypto ipsec sa
!--- This command was issued after a ping !--- was attempted from the PC behind the !---
Easy VPN Client to the PC !--- behind the server. interface: outside Crypto map tag: mymap,
local addr. 172.16.2.1 local ident (addr/mask/prot/port): (10.2.2.0/255.255.255.0/0/0)
remote ident (addr/mask/prot/port): (10.1.1.0/255.255.255.0/0/0) current_peer:
172.16.1.1:500 dynamic allocated peer ip: 0.0.0.0 PERMIT, flags={} #pkts encaps: 4, #pkts
encrypt: 4, #pkts digest 4 #pkts decaps: 4, #pkts decrypt: 4, #pkts verify 4 #pkts
compressed: 0, #pkts decompressed: 0 #pkts not compressed: 0, #pkts compr. failed: 0, #pkts
decompress failed: 0 #send errors 0, #recv errors 0 !--- Ping packets !--- were successfully
exchanged between the !--- Easy VPN Remote Hardware Client !--- and the Easy VPN Server.
local crypto endpt.: 172.16.2.1, remote crypto endpt.: 172.16.1.1 path mtu 1500, ipsec
overhead 64, media mtu 1500 current outbound spi: 3a5a28e4 inbound esp sas: spi:
0x505c96c6(1348245190) transform: esp-aes esp-md5-hmac , in use settings = {Tunnel, } slot:
0, conn id: 2, crypto map: mymap sa timing: remaining key lifetime (k/sec): (4607999/28471)
IV size: 16 bytes replay detection support: Y inbound ah sas: inbound pcp sas: outbound esp
sas: spi: 0x3a5a28e4(978987236) transform: esp-aes esp-md5-hmac , in use settings = {Tunnel,
} slot: 0, conn id: 1, crypto map: mymap sa timing: remaining key lifetime (k/sec):
(4607999/28471) IV size: 16 bytes replay detection support: Y outbound ah sas: outbound pcp
sas: local ident (addr/mask/prot/port): (10.2.2.0/255.255.255.0/0/0) remote ident
(addr/mask/prot/port): (172.16.1.1/255.255.255.255/0/0) current_peer: 172.16.1.1:500 dynamic
allocated peer ip: 0.0.0.0 PERMIT, flags={} #pkts encaps: 0, #pkts encrypt: 0, #pkts digest
0 #pkts decaps: 0, #pkts decrypt: 0, #pkts verify 0 #pkts compressed: 0, #pkts decompressed:
0 #pkts not compressed: 0, #pkts compr. failed: 0, #pkts decompress failed: 0 #send errors
0, #recv errors 0 local crypto endpt.: 172.16.2.1, remote crypto endpt.: 172.16.1.1 path mtu
1500, ipsec overhead 64, media mtu 1500 current outbound spi: 27f378f9 inbound esp sas: spi:
0xf2bb4f00(4072361728) transform: esp-aes esp-md5-hmac , in use settings = {Tunnel, } slot:
0, conn id: 3, crypto map: mymap sa timing: remaining key lifetime (k/sec): (4608000/27796)
IV size: 16 bytes replay detection support: Y inbound ah sas: inbound pcp sas: outbound esp
sas: spi: 0x27f378f9(670267641) transform: esp-aes esp-md5-hmac , in use settings = {Tunnel,
} slot: 0, conn id: 4, crypto map: mymap sa timing: remaining key lifetime (k/sec):
(4608000/27787) IV size: 16 bytes replay detection support: Y outbound ah sas: outbound pcp
sas: pix515#
```

[PIX Easy VPNリモートハードウェアクライアントのshowコマンドと出力例](#)

- **vpnclient enable**: Easy VPNリモート接続を有効にします。(ネットワーク拡張モード(NEM)では、ヘッドエンドのEasy VPNサーバと交換する対象トラフィックがない場合でも、トンネルはアップ状態です)。

```
pix501(config)#vpnclient enable
```

- **show crypto isakmp policy** : 各 IKE ポリシーに対するパラメータを表示します。

```
pix501#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
```

ハードウェアクライアントが有効になった後の**show crypto isakmp policy**コマンドの出力を次に示します。

```
pix501(config)#show crypto isakmp policy
```

```
Protection suite of priority 65001
  encryption algorithm:  AES - Advanced Encryption Standard (256 bit keys).
  hash algorithm:        Secure Hash Standard
  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:  AES - Advanced Encryption Standard (256 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 65003
  encryption algorithm:  AES - Advanced Encryption Standard (192 bit keys).
  hash algorithm:        Secure Hash Standard
  authentication method: Pre-Shared Key with XAUTH
  Diffie-Hellman group:  #2 (1024 bit)
  lifetime:              86400 seconds, no volume limit
Protection suite of priority 65004
  encryption algorithm:  AES - Advanced Encryption Standard (192 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 65005
  encryption algorithm:  AES - Advanced Encryption Standard (128 bit keys).
  hash algorithm:        Secure Hash Standard
  authentication method: Pre-Shared Key with XAUTH
  Diffie-Hellman group:  #2 (1024 bit)
  lifetime:              86400 seconds, no volume limit
Protection suite of priority 65006
  encryption algorithm:  AES - Advanced Encryption Standard (128 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 65007
  encryption algorithm:  Three key triple DES
  hash algorithm:        Secure Hash Standard
  authentication method: Pre-Shared Key with XAUTH
  Diffie-Hellman group:  #2 (1024 bit)
  lifetime:              86400 seconds, no volume limit
Protection suite of priority 65008
```

encryption algorithm: Three key triple DES
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 65009
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 65010
encryption algorithm: AES - Advanced Encryption Standard (256 bit keys).
hash algorithm: Secure Hash Standard
authentication method: Pre-Shared Key
Diffie-Hellman group: #2 (1024 bit)
lifetime: 86400 seconds, no volume limit
Protection suite of priority 65011
encryption algorithm: AES - Advanced Encryption Standard (256 bit keys).
hash algorithm: Message Digest 5
authentication method: Pre-Shared Key
Diffie-Hellman group: #2 (1024 bit)
lifetime: 86400 seconds, no volume limit
Protection suite of priority 65012
encryption algorithm: AES - Advanced Encryption Standard (192 bit keys).
hash algorithm: Secure Hash Standard
authentication method: Pre-Shared Key
Diffie-Hellman group: #2 (1024 bit)
lifetime: 86400 seconds, no volume limit
Protection suite of priority 65013
encryption algorithm: AES - Advanced Encryption Standard (192 bit keys).
hash algorithm: Message Digest 5
authentication method: Pre-Shared Key
Diffie-Hellman group: #2 (1024 bit)
lifetime: 86400 seconds, no volume limit
Protection suite of priority 65014
encryption algorithm: AES - Advanced Encryption Standard (128 bit keys).
hash algorithm: Secure Hash Standard
authentication method: Pre-Shared Key
Diffie-Hellman group: #2 (1024 bit)
lifetime: 86400 seconds, no volume limit
Protection suite of priority 65015
encryption algorithm: AES - Advanced Encryption Standard (128 bit keys).
hash algorithm: Message Digest 5
authentication method: Pre-Shared Key
Diffie-Hellman group: #2 (1024 bit)
lifetime: 86400 seconds, no volume limit
Protection suite of priority 65016
encryption algorithm: Three key triple DES
hash algorithm: Secure Hash Standard
authentication method: Pre-Shared Key
Diffie-Hellman group: #2 (1024 bit)
lifetime: 86400 seconds, no volume limit
Protection suite of priority 65017
encryption algorithm: Three key triple DES
hash algorithm: Message Digest 5
authentication method: Pre-Shared Key
Diffie-Hellman group: #2 (1024 bit)
lifetime: 86400 seconds, no volume limit
Protection suite of priority 65018
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 isakmp sa** : 現在ピアにあるすべての IKE SA を表示します。

```
pix501(config)#show crypto isakmp sa
```

```
Total : 1  
Embryonic : 0
```

```
dst src state pending created  
172.16.2.1 172.16.1.1 QM_IDLE 0 1
```

- **show crypto ipsec sa** : ピア間に構築された IPSec SA を表示します。

```
pix501(config)#show crypto ipsec sa
```

```
!--- This command was issued after a ping !--- was attempted from the PC behind the !---  
Easy VPN client to the PC !--- behind the server. interface: outside Crypto map tag:  
_vpnc_cm, local addr. 172.16.1.1 local ident (addr/mask/prot/port):  
(10.1.1.0/255.255.255.0/0/0) remote ident (addr/mask/prot/port):  
(10.2.2.0/255.255.255.0/0/0) current_peer: 172.16.2.1:500 PERMIT, flags={origin_is_acl,}  
#pkts encaps: 4, #pkts encrypt: 4, #pkts digest 4 #pkts decaps: 4, #pkts decrypt: 4, #pkts  
verify 4 #pkts compressed: 0, #pkts decompressed: 0 #pkts not compressed: 0, #pkts compr.  
failed: 0, #pkts decompress failed: 0 #send errors 1, #recv errors 0 !--- Ping packets !---  
were successfully exchanged between !--- the Easy VPN Remote Hardware Client !--- and the  
Easy VPN Server. local crypto endpt.: 172.16.1.1, remote crypto endpt.: 172.16.2.1 path mtu  
1500, ipsec overhead 64, media mtu 1500 current outbound spi: 505c96c6 inbound esp sas: spi:  
0x3a5a28e4(978987236) transform: esp-aes esp-md5-hmac , in use settings ={Tunnel, } slot: 0,  
conn id: 4, crypto map: _vpnc_cm sa timing: remaining key lifetime (k/sec): (4607999/28745)  
IV size: 16 bytes replay detection support: Y inbound ah sas: inbound pcp sas: outbound esp  
sas: spi: 0x505c96c6(1348245190) transform: esp-aes esp-md5-hmac , in use settings ={Tunnel,  
} slot: 0, conn id: 3, crypto map: _vpnc_cm sa timing: remaining key lifetime (k/sec):  
(4607999/28745) IV size: 16 bytes replay detection support: Y outbound ah sas: outbound pcp  
sas: local ident (addr/mask/prot/port): (172.16.1.1/255.255.255.255/0/0) remote ident  
(addr/mask/prot/port): (10.2.2.0/255.255.255.0/0/0) current_peer: 172.16.2.1:500 PERMIT,  
flags={origin_is_acl,} #pkts encaps: 0, #pkts encrypt: 0, #pkts digest 0 #pkts decaps: 0,  
#pkts decrypt: 0, #pkts verify 0 #pkts compressed: 0, #pkts decompressed: 0 #pkts not  
compressed: 0, #pkts compr. failed: 0, #pkts decompress failed: 0 #send errors 0, #recv  
errors 0 local crypto endpt.: 172.16.1.1, remote crypto endpt.: 172.16.2.1 path mtu 1500,  
ipsec overhead 64, media mtu 1500 current outbound spi: f2bb4f00 inbound esp sas: spi:  
0x27f378f9(670267641) transform: esp-aes esp-md5-hmac , in use settings ={Tunnel, } slot: 0,  
conn id: 1, crypto map: _vpnc_cm sa timing: remaining key lifetime (k/sec): (4608000/28125)  
IV size: 16 bytes replay detection support: Y inbound ah sas: inbound pcp sas: outbound esp  
sas: spi: 0xf2bb4f00(4072361728) transform: esp-aes esp-md5-hmac , in use settings ={Tunnel,  
} slot: 0, conn id: 2, crypto map: _vpnc_cm sa timing: remaining key lifetime (k/sec):  
(4608000/28125) IV size: 16 bytes replay detection support: Y outbound ah sas: outbound pcp  
sas: pix501(config)#
```

- **show vpnclient**:VPN ClientまたはEasy VPN Remoteデバイスの設定情報を表示します。

```
pix501(config)#show vpnclient
```

```
LOCAL CONFIGURATION
```

```
vpnclient server 172.16.2.1  
vpnclient mode network-extension-mode  
vpnclient vpngroup mygroup password *****  
vpnclient enable
```

```
DOWNLOADED DYNAMIC POLICY
```

```
Current Server : 172.16.2.1  
Primary DNS : 10.2.2.2  
Primary WINS : 10.2.2.2  
Default Domain : cisco.com  
PFS Enabled : No  
Secure Unit Authentication Enabled : No  
User Authentication Enabled : No  
Split Networks : 10.2.2.0/255.255.255.0  
Backup Servers : None
```

```
pix501(config)#
```


ここでは、設定のトラブルシューティングに使用できる情報を示します。

このドキュメントの説明に従ってEasy VPNリモートハードウェアクライアントとEasy VPNサーバを設定しても問題が発生する場合は、各PIXからのデバッグ出力とshowコマンドの出力を収集し、[Cisco Technical Assistance Center\(TAC\)による分析をしてください](#)。「[確立された IPsec トンネルでデータトラフィックを送信する PIX のトラブルシューティング](#)」または「[IP Security のトラブルシューティング - debug コマンドの理解と使用](#)」も参照してください。PIX で IPsec のデバッグをイネーブルにしてください。

PIXのdebugコマンドと出力例を次に示します。

- [Easy VPNサーバコマンド](#)
- [Easy VPNリモートハードウェアクライアントコマンド](#)

注：[debug](#) コマンドを使用する前に、『[debug コマンドの重要な情報](#)』を参照してください。

[Easy VPNサーバコマンド](#)

- **debug crypto ipsec** : フェーズ 2 の IPsec ネゴシエーションを表示します。
- **debug crypto isakmp** : フェーズ 1 の ISAKMP ネゴシエーションを表示します。

次に、出力例を示します。

```
pix515(config)#
!--- As soon as the vpnclient enable command !--- is issued on the remote client PIX, !--- the
server receives an IKE negotiation request.

crypto_isakmp_process_block:src:172.16.1.1,
  dest:172.16.2.1 spt:500 dpt:500
OAK_AG exchange
ISAKMP (0): processing SA payload. message ID = 0

ISAKMP (0): Checking ISAKMP transform 1 against priority 10 policy
ISAKMP:      encryption AES-CBC
ISAKMP:      keylength of 256
ISAKMP:      hash SHA
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 3
ISAKMP (0): Checking ISAKMP transform 2 against priority 10 policy
ISAKMP:      encryption AES-CBC
ISAKMP:      keylength of 256
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 3
ISAKMP (0): Checking ISAKMP transform 3 against priority 10 policy
ISAKMP:      encryption AES-CBC
ISAKMP:      keylength of 192
ISAKMP:      hash SHA
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 3
```

```
ISAKMP (0): Checking ISAKMP transform 4 against priority 10 policy
ISAKMP:      encryption AES-CBC
ISAKMP:      keylength of 192
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 3
ISAKMP (0): Checking ISAKMP transform 5 against priority 10 policy
ISAKMP:      encryption AES-CBC
ISAKMP:      keylength of 128
ISAKMP:      hash SHA
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 3
ISAKMP (0): Checking ISAKMP transform 6 against priority 10 policy
ISAKMP:      encryption AES-CBC
ISAKMP:      keylength of 128
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 3
ISAKMP (0): Checking ISAKMP transform 7 against priority 10 policy
ISAKMP:      encryption 3DES-CBC
ISAKMP:      hash SHA
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 3
ISAKMP (0): Checking ISAKMP transform 8 against priority 10 policy
ISAKMP:      encryption 3DES-CBC
ISAKMP:      hash MD5
ISAKMP:      default group 2
ISAKMP:      extended auth pre-share (init)
ISAKMP:      life type in seconds
ISAKMP:      life duration (VPI) of 0x0 0x1 0x51 0x80
ISAKMP (0): atts are not acceptable. Next payload is 3
ISAKMP (0): Checking ISAKMP transform 9 against priority 10 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 3
ISAKMP (0): Checking ISAKMP transform 10 against priority 10 policy
crypto_isakmp_process_block:src:172.16.1.1,
  dest:172.16.2.1 spt:500 dpt:500
OAK_AG exchange
ISAKMP (0): processing HASH payload. message ID = 0
ISAKMP (0): processing NOTIFY payload 24578 protocol 1
  spi 0, message ID = 0
ISAKMP (0): processing notify INITIAL_CONTACTIPSEC(key_engine):
  got a queue event...
IPSEC(key_engine_delete_sas): rec'd delete notify from ISAKMP
IPSEC(key_engine_delete_sas): delete all SAs shared with 172.16.1.1

ISAKMP (0): processing vendor id payload
```

```
ISAKMP (0): received xauth v6 vendor id
ISAKMP (0): processing vendor id payload
ISAKMP (0): remote peer supports dead peer detection
ISAKMP (0): processing vendor id payload
ISAKMP (0): speaking to another IOS box!
ISAKMP (0): processing vendor id payload
crypto_isakmp_process_block:src:172.16.1.1,
  dest:172.16.2.1 spt:500 dpt:500
ISAKMP_TRANSACTION exchange
crypto_isakmp_process_block:src:172.16.1.1,
  dest:172.16.2.1 spt:500 dpt:500
OAK_QM exchange
oakley_process_quick_mode:
OAK_QM_IDLE
ISAKMP (0): processing SA payload. message ID = 4788683

ISAKMP : Checking IPsec proposal 1

ISAKMP: transform 1, ESP_AES
ISAKMP:  attributes in transform:
ISAKMP:  encaps is 1
ISAKMP:  SA life type in seconds
ISAKMP:  SA life duration (basic) of 28800
ISAKMP:  SA life type in kilobytes
ISAKMP:  SA life duration (VPI) of  0x0 0x46 0x50 0x0
ISAKMP:  authenticator is HMAC-SHA
ISAKMP:  key length is 256IPSEC(validate_proposal):
  transform proposal (prot 3, trans 12, hmac_alg 2) not supported

ISAKMP (0): atts not acceptable. Next payload is 0
ISAKMP : Checking IPsec proposal 2

ISAKMP: transform 1, ESP_AES
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:  key length is 256IPSEC(validate_proposal):
  transform proposal (prot 3, trans 12, hmac_alg 1) not supported

ISAKMP (0): atts not acceptable. Next payload is 0
ISAKMP : Checking IPsec proposal 3

ISAKMP: transform 1, ESP_AES
ISAKMP:  attributes in transform:
ISAKMP:  encaps is 1
ISAKMP:  SA life type in seconds
ISAKMP:  SA life duration (basic) of 28800
ISAKMP:  SA life type in kilobytes
ISAKMP:  SA life duration (VPI) of  0x0 0x46 0x50 0x0
ISAKMP:  authenticator is HMAC-SHA
ISAKMP:  key length is 192IPSEC(validate_proposal):
  transform proposal (prot 3, trans 12, hmac_alg 2) not supported
```

ISAKMP (0): atts not acceptable. Next payload is 0
ISAKMP : Checking IPsec proposal 4

ISAKMP: transform 1, ESP_AES
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: key length is 192IPSEC(validate_proposal):
transform proposal (prot 3, trans 12, hmac_alg 1) not supported

ISAKMP (0): atts not acceptable. Next payload is 0
ISAKMP : Checking IPsec proposal 5

ISAKMP: transform 1, ESP_AES
ISAKMP: attributes in transform:
ISAKMP: encaps is 1
ISAKMP: SA life type in seconds
ISAKMP: SA life duration (basic) of 28800
ISAKMP: SA life type in kilobytes
ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0
ISAKMP: authenticator is HMAC-SHA
ISAKMP: key length is 128IPSEC(validate_proposal):
transform proposal (prot 3, trans 12, hmac_alg 2) not supported

ISAKMP (0): atts not acceptable. Next payload is 0
ISAKMP : Checking IPsec proposal 6

ISAKMP: transform 1, ESP_AES
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: key length is 128

ISAKMP (0): atts are acceptable.IPSEC(validate_proposal_request):
proposal part #1,

(key eng. msg.) dest= 172.16.2.1, src= 172.16.1.1,
dest_proxy= 10.2.2.0/255.255.255.0/0/0 (type=4),
src_proxy= 172.16.1.1/255.255.255.255/0/0 (type=1),
protocol= ESP, transform= esp-aes esp-md5-hmac ,
lifedur= 0s and 0kb,
spi= 0x0(0), conn_id= 0, keysize= 128, flags= 0x4

!--- Both PIXes accept the policy for IPsec. ISAKMP (0): processing NONCE payload. message ID = 4788683
ISAKMP (0): processing ID payload. message ID = 4788683
ISAKMP (0): ID_IPV4_ADDR src 172.16.1.1 prot 0 port 0
ISAKMP (0): processing ID payload. message ID = 4788683
ISAKMP (0): ID_IPV4_ADDR_SUBNET dst 10.2.2.0/255.255.255.0 prot 0 port 0
IPSEC(key_engine): got a queue event...
IPSEC(spi_response): getting spi 0xf5720496(4117890198) for SA from 172.16.1.1 to 172.16.2.1 for prot 3 return status is IKMP_NO_ERROR
crypto_isakmp_process_block:src:172.16.1.1, dest:172.16.2.1 spt:500 dpt:500
OAK_QM exchange oakley_process_quick_mode: OAK_QM_AUTH_AWAIT
ISAKMP (0): Creating IPsec SAs inbound SA from 172.16.1.1 to 172.16.2.1 (proxy 172.16.1.1 to 10.2.2.0) has spi 4117890198 and conn_id 3 and flags 4 lifetime of 28800 seconds
crypto_isakmp_process_block:src:172.16.1.1, dest:172.16.2.1 spt:500 dpt:500
ISAKMP (0): processing NOTIFY payload 36136 protocol 1 spi 0, message ID = 843197376
ISAKMP (0): received DPD_R_U_THERE from peer 172.16.1.1
ISAKMP (0): sending NOTIFY message 36137 protocol 1 return status is IKMP_NO_ERR_NO_TRANS
crypto_isakmp_process_block:src:172.16.1.1, dest:172.16.2.1 spt:500 dpt:500
ISAKMP (0): processing NOTIFY payload 36136 protocol 1 spi 0, message ID = 1985282089
ISAKMP (0): received DPD_R_U_THERE from peer 172.16.1.1
ISAKMP (0): sending NOTIFY message 36137 protocol 1 return status is IKMP_NO_ERR_NO_TRANS

```
crypto_isakmp_process_block:src:172.16.1.1, dest:172.16.2.1 spt:500 dpt:500 ISAKMP (0):  
processing NOTIFY payload 36136 protocol 1 spi 0, message ID = 1510977390 ISAKMP (0): received  
DPD_R_U_THERE from peer 172.16.1.1 ISAKMP (0): sending NOTIFY message 36137 protocol 1 return  
status is IKMP_NO_ERR_NO_TRANS
```

Easy VPNリモートハードウェアクライアントコマンド

- **debug crypto ipsec** : フェーズ 2 の IPsec ネゴシエーションを表示します。
- **debug crypto isakmp** : フェーズ 1 の ISAKMP ネゴシエーションを表示します。

```
pix501(config)#vpnclient enable  
(cIoSnAfKigM)P# (0): ID payload  
    next-payload : 13  
    type          : 11  
    protocol      : 17  
    port          : 0  
    length        : 11  
ISAKMP (0): Total payload length: 15  
ISAKMP (0:0): sending NAT-T vendor ID - rev 2 & 3  
ISAKMP (0): beginning Aggressive Mode exchange  
crypto_isakmp_process_block:src:172.16.2.1,  
    dest:172.16.1.1 spt:500 dpt:500  
OAK_AG exchange  
ISAKMP (0): processing SA payload. message ID = 0  
  
ISAKMP (0): Checking ISAKMP transform 1 against priority 65001 policy  
ISAKMP:    encryption AES-CBC  
ISAKMP:    keylength of 128  
ISAKMP:    hash MD5  
ISAKMP:    default group 2  
ISAKMP:    auth pre-share  
ISAKMP:    life type in seconds  
ISAKMP:    life duration (VPI) of 0x0 0x1 0x51 0x80  
ISAKMP (0): atts are not acceptable. Next payload is 0  
ISAKMP (0): Checking ISAKMP transform 1 against priority 65002 policy  
ISAKMP:    encryption AES-CBC  
ISAKMP:    keylength of 128  
ISAKMP:    hash MD5  
ISAKMP:    default group 2  
ISAKMP:    auth pre-share  
ISAKMP:    life type in seconds  
ISAKMP:    life duration (VPI) of 0x0 0x1 0x51 0x80  
ISAKMP (0): atts are not acceptable. Next payload is 0  
ISAKMP (0): Checking ISAKMP transform 1 against priority 65003 policy  
ISAKMP:    encryption AES-CBC  
ISAKMP:    keylength of 128  
ISAKMP:    hash MD5  
ISAKMP:    default group 2  
ISAKMP:    auth pre-share  
ISAKMP:    life type in seconds  
ISAKMP:    life duration (VPI) of 0x0 0x1 0x51 0x80  
ISAKMP (0): atts are not acceptable. Next payload is 0  
ISAKMP (0): Checking ISAKMP transform 1 against priority 65004 policy  
ISAKMP:    encryption AES-CBC  
ISAKMP:    keylength of 128  
ISAKMP:    hash MD5  
ISAKMP:    default group 2  
ISAKMP:    auth pre-share  
ISAKMP:    life type in seconds  
ISAKMP:    life duration (VPI) of 0x0 0x1 0x51 0x80  
ISAKMP (0): atts are not acceptable. Next payload is 0  
ISAKMP (0): Checking ISAKMP transform 1 against priority 65005 policy
```

ISAKMP: encryption AES-CBC
ISAKMP: keylength of 128
ISAKMP: hash MD5
ISAKMP: default group 2
ISAKMP: auth pre-share
ISAKMP: life type in seconds
ISAKMP: life duration (VPI) of 0x0 0x1 0x51 0x80
ISAKMP (0): atts are not acceptable. Next payload is 0
ISAKMP (0): Checking ISAKMP transform 1 against priority 65006 policy
ISAKMP: encryption AES-CBC
ISAKMP: keylength of 128
ISAKMP: hash MD5
ISAKMP: default group 2
ISAKMP: auth pre-share
ISAKMP: life type in seconds
ISAKMP: life duration (VPI) of 0x0 0x1 0x51 0x80
ISAKMP (0): atts are not acceptable. Next payload is 0
ISAKMP (0): Checking ISAKMP transform 1 against priority 65007 policy
ISAKMP: encryption AES-CBC
ISAKMP: keylength of 128
ISAKMP: hash MD5
ISAKMP: default group 2
ISAKMP: auth pre-share
ISAKMP: life type in seconds
ISAKMP: life duration (VPI) of 0x0 0x1 0x51 0x80
ISAKMP (0): atts are not acceptable. Next payload is 0
ISAKMP (0): Checking ISAKMP transform 1 against priority 65008 policy
ISAKMP: encryption AES-CBC
ISAKMP: keylength of 128
ISAKMP: hash MD5
ISAKMP: default group 2
ISAKMP: auth pre-share
ISAKMP: life type in seconds
ISAKMP: life duration (VPI) of 0x0 0x1 0x51 0x80
ISAKMP (0): atts are not acceptable. Next payload is 0
ISAKMP (0): Checking ISAKMP transform 1 against priority 65009 policy
ISAKMP: encryption AES-CBC
ISAKMP: keylength of 128
ISAKMP: hash MD5
ISAKMP: default group 2
ISAKMP: auth pre-share
ISAKMP: life type in seconds
ISAKMP: life duration (VPI) of 0x0 0x1 0x51 0x80
ISAKMP : attributes being requested

crypto_isakmp_process_block:src:172.16.2.1,
dest:172.16.1.1 spt:500 dpt:500
ISAKMP (0): beginning Quick Mode exchange,
M-ID of 1112046058:424879eaIPSEC(key_engine): got a queue event...
IPSEC(spi_response): getting spi 0x274d3063(659370083) for SA
from 172.16.2.1 to 172.16.1.1 for prot 3

crypto_isakmp_process_block:src:172.16.2.1,
dest:172.16.1.1 spt:500 dpt:500
OAK_QM exchange
oakley_process_quick_mode:
OAK_QM_IDLE
ISAKMP (0): processing SA payload. message ID = 1112046058

ISAKMP : Checking IPsec proposal 1

ISAKMP: transform 1, ESP_AES
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:      key length is 128
ISAKMP (0):  atts are acceptable.IPSEC(validate_proposal_request):
      proposal part #1,
(key eng. msg.) dest= 172.16.2.1, src= 172.16.1.1,
      dest_proxy= 10.2.2.0/255.255.255.0/0/0 (type=4),
      src_proxy= 172.16.1.1/255.255.255.255/0/0 (type=1),
      protocol= ESP, transform= esp-aes esp-md5-hmac ,
      lifedur= 0s and 0kb,
      spi= 0x0(0), conn_id= 0, keysize= 128, flags= 0x4

ISAKMP (0):  processing NONCE payload. message ID = 1112046058

ISAKMP (0):  processing ID payload. message ID = 1112046058
ISAKMP (0):  processing ID payload. message ID = 1112046058
ISAKMP (0):  Creating IPsec SAs
      inbound SA from 172.16.2.1 to 172.16.1.1
(proxy 10.2.2.0 to 172.16.1.1)
      has spi 659370083 and conn_id 2 and flags 4
      lifetime of 28800 seconds
      lifetime of 4608000 kilobytes
      outbound SA from 172.16.1.1 to 172.16.2.1
(proxy 172.16.1.1 to 10.2.2.0)
      has spi 264316759 and conn_id 1 and flags 4
      lifetime of 28800 seconds
      lifetime of 4608000 kilobytesIPSEC(key_engine):
got a queue event...
IPSEC(initialize_sas): ,
(key eng. msg.) dest= 172.16.1.1, src= 172.16.2.1,
      dest_proxy= 172.16.1.1/255.255.255.255/0/0 (type=1),
      src_proxy= 10.2.2.0/255.255.255.0/0/0 (type=4),
      protocol= ESP, transform= esp-aes esp-md5-hmac ,
      lifedur= 28800s and 4608000kb,
      spi= 0x274d3063(659370083), conn_id= 2, keysize= 128, flags= 0x4
IPSEC(initialize_sas): ,
(key eng. msg.) src= 172.16.1.1, dest= 172.16.2.1,
      src_proxy= 172.16.1.1/255.255.255.255/0/0 (type=1),
      dest_proxy= 10.2.2.0/255.255.255.0/0/0 (type=4),
      protocol= ESP, transform= esp-aes esp-md5-hmac ,
      lifedur= 28800s and 4608000kb,
      spi= 0xfc12757(264316759), conn_id= 1, keysize= 128, flags= 0x4

VPN Peer: IPSEC: Peer ip:172.16.2.1/500 Ref cnt incremented to:2
      Total VPN Peers:1
VPN Peer: IPSEC: Peer ip:172.16.2.1/500 Ref cnt incremented to:3
      Total VPN Peers:1
return status is IKMP_NO_ERROR
pix501(config)#
pix501(config)#
ISAKMP (0):  sending NOTIFY message 36136 protocol 1
crypto_isakmp_process_block:src:172.16.2.1,
      dest:172.16.1.1 spt:500 dpt:500
ISAKMP (0):  processing NOTIFY payload 36137 protocol 1
      spi 0, message ID = 136860646n
ISAKMP (0):  received DPD_R_U_THERE_ACK from peer 172.16.2.1

```

• debug vpncient:VPN Clientに固有のネゴシエーションを表示します。

```

pix501(config)#vpncient enable

```

```
pix501(config)# 505: VPNC CFG: transform set unconfig attempt done
506: VPNC CLI: no isakmp keepalive 10
507: VPNC CLI: no isakmp nat-traversal 20
508: VPNC CFG: IKE unconfig successful
509: VPNC CLI: no crypto map _vpnc_cm
510: VPNC CFG: crypto map deletion attempt done
511: VPNC CFG: crypto unconfig successful
512: VPNC CLI: no global (outside) 65001
513: VPNC CLI: no nat (inside) 0 access-list _vpnc_acl
514: VPNC CFG: nat unconfig attempt failed
515: VPNC CLI: no http 10.1.1.1 255.255.255.0 inside
516: VPNC CLI: no http server enable
517: VPNC CLI: no access-list _vpnc_acl
518: VPNC CFG: ACL deletion attempt failed
519: VPNC CLI: no crypto map _vpnc_cm interface outside
520: VPNC CFG: crypto map de/attach failed
521: VPNC CLI: no sysopt connection permit-ipsec
522: VPNC CLI: sysopt connection permit-ipsec
523: VPNC CFG: transform sets configured
524: VPNC CFG: crypto config successful
525: VPNC CLI: isakmp keepalive 10
526: VPNC CLI: isakmp nat-traversal 20
527: VPNC CFG: IKE config successful
528: VPNC CLI: http 10.1.1.1 255.255.255.0 inside
529: VPNC CLI: http server enable
530: VPNC CLI: no access-list _vpnc_acl
531: VPNC CFG: ACL deletion attempt failed
532: VPNC CLI: access-list _vpnc_acl
    permit ip host 172.16.1.1 host 172.16.2.1
533: VPNC CLI: crypto map _vpnc_cm 10 match address _vpnc_acl
534: VPNC CFG: crypto map acl update successful
535: VPNC CLI: no crypto map _vpnc_cm interface outside
536: VPNC CLI: crypto map _vpnc_cm interface outside
537: VPNC INF: IKE trigger request done
538: VPNC INF: Constructing policy download req
539: VPNC INF: Packing attributes for policy request
540: VPNC INF: Attributes being requested
541: VPNC ATT: ALT_DEF_DOMAIN: cisco.com
542: VPNC ATT: INTERNAL_IP4_NBNS: 10.2.2.2
543: VPNC ATT: INTERNAL_IP4_DNS: 10.2.2.2
544: VPNC ATT: ALT_SPLIT_INCLUDE
545: VPNC INF: 10.2.2.0/255.255.255.0
546: VPNC ATT: ALT_PFS: 0
547: VPNC ATT: ALT_CFG_SEC_UNIT: 0
548: VPNC ATT: ALT_CFG_USER_AUTH: 0
549: VPNC CLI: no access-list _vpnc_acl
550: VPNC CLI: access-list _vpnc_acl
    permit ip 10.1.1.0 255.255.255.0 10.2.2.0 255.255.255.0
551: VPNC CLI: access-list _vpnc_acl
    permit ip host 172.16.1.1 10.2.2.0 255.255.255.0
552: VPNC CFG: _vpnc_acl ST define done
553: VPNC CFG: Split DNS config attempt done
554: VPNC CLI: crypto map _vpnc_cm 10 match address _vpnc_acl
555: VPNC CFG: crypto map acl update successful
556: VPNC CLI: no crypto map _vpnc_cm interface outside
557: VPNC CLI: crypto map _vpnc_cm interface outside
558: VPNC CLI: no global (outside) 65001
559: VPNC CLI: no nat (inside) 0 access-list _vpnc_acl
560: VPNC CFG: nat unconfig attempt failed
561: VPNC CLI: nat (inside) 0 access-list _vpnc_acl
562: VPNC INF: IKE trigger request done
```

関連情報

- [PIXに関するサポート ページ](#)
- [PIX コマンド リファレンス](#)
- [IPSecネゴシエーション/IKEプロトコルに関するサポートページ](#)
- [Requests for Comments \(RFCs\)](#)
- [テクニカルサポート - Cisco Systems](#)