

# O LAN para LAN e o cliente ezvpn no PIX com acesso de cliente VPN a um roteador de hub que usa o ISAKMP perfilam o exemplo de configuração

## Índice

[Introdução](#)

[Pré-requisitos](#)

[Requisitos](#)

[Componentes Utilizados](#)

[Convenções](#)

[Configurar](#)

[Diagrama de Rede](#)

[Configurações](#)

[Configuração de cliente de VPN](#)

[Verificar](#)

[O LAN para LAN debuga no roteador de hub VPN 1750 usando o isakmp do debug crypto e o IPsec do debug crypto](#)

[A conexão do cliente ezvpn debuga usando o isakmp do debug crypto e o IPsec do debug crypto](#)

[Depurações de VPN Client em PIX End utilizando debug crypto isakmp e debug crypto ipsec](#)

[Debuga no PIX 501 \(a conexão de LAN para LAN\)](#)

[Debuga em PIX-506-B \(a conexão do cliente ezvpn\)](#)

[Debuga no cliente VPN](#)

[Troubleshooting](#)

[Comandos para Troubleshooting](#)

[Informações Relacionadas](#)

## [Introdução](#)

Este documento fornece uma configuração de exemplo para a configuração dos túneis de IPsec usando perfis ISAKMP em um roteador de hub os dois locais remotos PIX. Um local remoto PIX consiste no LAN para LAN e o outro consiste na configuração de modo do Acesso remoto do EzVPN. O roteador de hub é configurado para a autenticação local para os túneis do EzVPN, e a autenticação RADIUS para o cliente VPN do software.

## [Pré-requisitos](#)

### [Requisitos](#)

Não existem requisitos específicos para este documento.

## Componentes Utilizados

As informações neste documento são baseadas nestas versões de software e hardware:

- Dispositivo 501 do firewall PIX segura Cisco que é executado 6.3(3)
- Roteador Cisco 1750 que executa o Software Release 12.3.9a de Cisco IOS®
- Dispositivo 506 do firewall PIX segura Cisco que é executado 6.3(3)
- Cisco VPN Client que executa 4.0 (Rel) (autenticação de usuário usando o servidor Radius)

As informações neste documento foram criadas a partir de dispositivos em um ambiente de laboratório específico. Todos os dispositivos utilizados neste documento foram iniciados com uma configuração (padrão) inicial. Se a sua rede estiver ativa, certifique-se de que entende o impacto potencial de qualquer comando.

## Convenções

Consulte as [Convenções de Dicas Técnicas da Cisco](#) para obter mais informações sobre convenções de documentos.

## Configurar

Nesta seção, você encontrará informações para configurar os recursos descritos neste documento.

**Nota:** Use a [ferramenta de consulta de comandos \(clientes registrados somente\)](#) para encontrar a informação adicional nos comandos usados neste documento.

## Diagrama de Rede

Este documento utiliza a seguinte configuração de rede:

## Configurações

Este documento utiliza as seguintes configurações:

- [Roteador de Hub VPN 1750](#)
- [PIX-501 – LAN a LAN](#)
- [Cliente PIX-506-B - EzVPN](#)
- [Cliente de VPN](#)

### **Roteador de Hub VPN 1750**

```
version 12.3
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname VPN1750 !--- Local authentication username and
password, for EzVPN Client. username jerry password 0
wells123 username cisco password 0 letmein !--- Enable
```

```

AAA. aaa new-model ! ! !--- Default local login. aaa authentication login default local !--- RADIUS authentication for VPN Client. aaa authentication login userauth group radius local !--- Local authentication for EzVPN Client. aaa authentication login EZVPN local aaa authorization exec default local !--- Local group authorization for VPN Client. aaa authorization network groupauthor local !--- Local authorization for EzVPN Client. aaa authorization network EZVPN local aaa session-id common ip subnet-zero ! ! ip domain name cisco.com ! ip cef ip audit po max-events 100 !--- Keyring specification for Phase 1 authentication. crypto keyring vpn pre-shared-key address 172.18.124.196 key cisco123 ! !--- Specify ISAKMP policy. crypto isakmp policy 20 encr 3des hash md5 authentication pre-share group 2 ! !--- EzVPN Client configuration that specifies the group, key and IP pool to use. crypto isakmp client configuration group polo key mark123 pool ezpool ! !--- VPN Client configuration that specifies the group, key and IP pool to use. crypto isakmp client configuration group tennis key matchpoint domain cisco.com pool vpnpool !--- ISAKMP profile specification for LAN-to-LAN. crypto isakmp profile l2lvpn keyring vpn match identity address 172.18.124.196 255.255.255.255 !--- ISAKMP profile specification for EzVPN Client. crypto isakmp profile ezvpnprofile match identity group polo client authentication list EZVPN isakmp authorization list EZVPN client configuration address respond !--- ISAKMP profile specification for software VPN Client. crypto isakmp profile softclient match identity group tennis client authentication list userauth isakmp authorization list groupauthor client configuration address respond ! ! !--- Set tranform-set. crypto ipsec transform-set pix501 esp-3des esp-sha-hmac crypto ipsec transform-set vpnclient esp-3des esp-sha-hmac crypto ipsec transform-set ezvpn esp-3des esp-md5-hmac ! !--- Specify crypto map set and ISAKMP profile for VPN Client. crypto dynamic-map rtpmap 10 set transform-set vpnclient set isakmp-profile softclient !--- Specify crypto map set and ISAKMP profile for EzVPN Client. crypto dynamic-map rtpmap 20 set transform-set ezvpn set isakmp-profile ezvpnprofile ! ! crypto map rtp 5 ipsec-isakmp dynamic rtpmap !--- Specify crypto map set and ISAKMP profile for LAN-to-LAN. crypto map rtp 10 ipsec-isakmp set peer 172.18.124.196 set transform-set pix501 set isakmp-profile l2lvpn match address 101 ! ! ! interface Ethernet0 ip address 192.168.40.1 255.255.255.0 ! interface FastEthernet0 ip address 172.18.124.195 255.255.255.0 speed auto !--- Apply crypto map on the outside interface. crypto map rtp ! !--- VPN Client pool addresses. ip local pool vpnpool 10.50.50.1 10.50.50.10 !--- EzVPN Client pool addresses. ip local pool ezpool 172.25.70.1 172.25.70.10 ip classless ip route 0.0.0.0 0.0.0.0 172.18.124.1 ! !--- Encryption access-list applied to the crypto map. access-list 101 permit ip 192.168.40.0 0.0.0.255 192.168.10.0 0.0.0.255 ! !--- Define ACS server for VPN Client user authentication. radius-server host 192.168.40.5 auth-port 1645 acct-port 1646 key cisco123 ! line con 0 exec-timeout 0 0 line aux 0 line vty 0 4 ! end

```

## PIX-501 – LAN a LAN

PIX Version 6.3(3)

```

interface ethernet0 auto
interface ethernet1 100full
nameif ethernet0 outside security0
nameif ethernet1 inside security100
enable password 8Ry2YjIyt7RRXU24 encrypted
passwd 2KFQnbNIdI.2KYOU encrypted
hostname PIX-501 domain-name cisco.com fixup protocol
dns maximum-length 512 fixup protocol ftp 21 fixup
protocol h323 h225 1720 fixup protocol h323 ras 1718-
1719 fixup protocol http 80 fixup protocol rsh 514 fixup
protocol rtsp 554 fixup protocol sip 5060 fixup protocol
sip udp 5060 fixup protocol skinny 2000 fixup protocol
smtp 25 fixup protocol sqlnet 1521 fixup protocol tftp
69 names !--- Encryption access-list for interesting
traffic to be encrypted. access-list 101 permit ip
192.168.10.0 255.255.255.0 192.168.40.0 255.255.255.0 !-
-- NAT 0 access-list for encryption traffic to bypass
NAT process. access-list nonat permit ip 192.168.10.0
255.255.255.0 192.168.40.0 255.255.255.0 pager lines 24
mtu outside 1500 mtu inside 1500 ip address outside
172.18.124.196 255.255.255.0 ip address inside
192.168.10.1 255.255.255.0 ip audit info action alarm ip
audit attack action alarm pdm history enable arp timeout
14400 global (outside) 1 interface !--- Bypass NAT for
IPsec traffic. nat (inside) 0 access-list nonat nat
(inside) 1 192.168.10.0 255.255.255.0 0 0 route outside
0.0.0.0 0.0.0.0 172.18.124.1 1 timeout xlate 3:00:00
timeout conn 1:00:00 half-closed 0:10:00 udp 0:02:00 rpc
0:10:00 h225 1:00:00 timeout h323 0:05:00 mgcp 0:05:00
sip 0:30:00 sip_media 0:02:00 timeout uauth 0:05:00
absolute aaa-server TACACS+ protocol tacacs+ aaa-server
RADIUS protocol radius aaa-server LOCAL protocol local
floodguard enable !--- This command avoids applied ACLs
or conduits on encrypted packets. sysopt connection
permit-ipsec !--- Configuration of IPsec Phase 2. crypto
ipsec transform-set fox esp-3des esp-sha-hmac crypto map
fox 10 ipsec-isakmp crypto map fox 10 match address 101
crypto map fox 10 set peer 172.18.124.195 crypto map fox
10 set transform-set fox crypto map fox interface
outside !--- Configuration of IPsec Phase 1. isakmp
enable outside !--- IKE pre-shared key used by peers to
authenticate. isakmp key ***** address 172.18.124.195
netmask 255.255.255.255 isakmp identity address isakmp
policy 10 authentication pre-share isakmp policy 10
encryption 3des isakmp policy 10 hash md5 isakmp policy
10 group 2 isakmp policy 10 lifetime 86400 telnet
timeout 5 ssh timeout 5 console timeout 0 terminal width
80 Cryptochecksum:9e09996cdf390036841e71da006balf1 : end

```

## Cliente PIX-506-B - EzVPN

```

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

```

```
lines 24 mtu outside 1500 mtu inside 1500 !--- Define IP
addresses for the PIX's inside and outside interfaces.
ip address outside 172.18.124.197 255.255.255.0 ip
address inside 192.168.30.1 255.255.255.0 ip audit info
action alarm ip audit attack action alarm pdm history
enable arp timeout 14400 global (outside) 1 interface
nat (inside) 1 192.168.30.0 255.255.255.0 0 0 route
outside 0.0.0.0 0.0.0.0 172.18.124.1 1 timeout xlate
3:00:00 timeout conn 1:00:00 half-closed 0:10:00 udp
0:02:00 rpc 0:10:00 h225 1:00:00 timeout h323 0:05:00
mgcp 0:05:00 sip 0:30:00 sip_media 0:02:00 timeout uauth
0:05:00 absolute aaa-server TACACS+ protocol tacacs+
aaa-server RADIUS protocol radius aaa-server LOCAL
protocol local floodguard enable sysopt connection
permit-ipsec crypto ipsec transform-set tiger esp-3des
esp-md5-hmac telnet timeout 5 ssh timeout 5 console
timeout 0 !--- Define the EzVPN server IP address.
vpnclient server 172.18.124.195 !--- Specify the mode to
be used (client-mode or Network Extension Mode).
vpnclient mode client-mode !--- Define EzVPN connection
parameters. vpnclient vpngroup polo password *****
vpnclient username jerry password ***** !--- Enable
VPN Client on the PIX. vpnclient enable terminal width
80 Cryptochecksum:1bb41de13c5e15537a50cb1f39f131b9 : end
```

## Configuração de cliente de VPN

Termine estas etapas para configurar o cliente VPN.

1. Lance o cliente VPN e crie uma nova conexão com os parâmetros exigidos da entrada de conexão.
2. Depois que a entrada da conexão estiver criada, clique em Conectar e autentique com os parâmetros do usuário configurados no servidor RADIUS.

## Verificar

Esta seção fornece informações que você pode usar para confirmar se sua configuração está funcionando adequadamente. Refira o [Troubleshooting de Segurança IP - Compreendendo e usando comandos debug](#) para a verificação adicional/Troubleshooting. Se você encontrar quaisquer edições ou erros do cliente VPN, refira a [ferramenta da Consulta de Erro de GUI do cliente VPN](#).

A [Output Interpreter Tool \(somente clientes registrados\)](#) oferece suporte a determinados comandos show, o que permite exibir uma análise da saída do comando show.

- **mostre o perfil cripto do isakmp** — Indica todos os perfis ISAKMP e suas configurações no roteador.
- **mostre a chave cripto do isakmp** — Indica todos os keyrings e suas chaves preshared. Use este comando para verificar a configuração do conjunto de chaves de criptografia no roteador.
- **IPsec do debug crypto** — Indica a informação em negociações IPsec SA no roteador.
- **isakmp do debug crypto** — Indica ISAKMP SA que é construído e os atributos do IPsec que são negociados. Durante a negociação ISAKMP SA, o PIX pôde rejeitar diversas propostas enquanto o " não aceitável " antes de um é aceitado. Uma vez que ISAKMP SA é

concordado, os atributos do IPsec estão negociados.

## O LAN para LAN debuga no roteador de hub VPN 1750 usando o isakmp do debug crypto e o IPsec do debug crypto

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

May 11 20:44:51.374: ISAKMP (0:1): processing SA payload. message ID = 0
May 11 20:44:51.374: ISAKMP: Looking for a matching key for 172.18.124.196
                        in default
May 11 20:44:51.374: ISAKMP: Looking for a matching key for 172.18.124.196
                        in vpn : success
May 11 20:44:51.374: ISAKMP (0:1): found peer pre-shared key matching
                        172.18.124.196
May 11 20:44:51.378: ISAKMP (0:1) local preshared key found
May 11 20:44:51.378: ISAKMP : Scanning profiles for xauth ... l2lvpn ezvpnprofile
May 11 20:44:51.378: ISAKMP (0:1) Authentication by xauth preshared
May 11 20:44:51.378: ISAKMP (0:1): Checking ISAKMP transform 1 against
                        priority 20 policy
May 11 20:44:51.378: ISAKMP: encryption 3DES-CBC
May 11 20:44:51.378: ISAKMP: hash MD5
May 11 20:44:51.378: ISAKMP: default group 2
May 11 20:44:51.378: ISAKMP: auth pre-share
May 11 20:44:51.378: ISAKMP: life type in seconds
May 11 20:44:51.378: ISAKMP: life duration (VPI) of 0x0 0x1 0x51 0x80
May 11 20:44:51.382: ISAKMP (0:1): atts are acceptable. Next payload is 0 !--- Phase 1 proposal
accepted. May 11 20:44:51.598: ISAKMP (0:1): Input = IKE_MSG_INTERNAL, IKE_PROCESS_MAIN_MODE
May 11 20:44:51.598: ISAKMP (0:1): Old State = IKE_R_MM1 New State = IKE_R_MM1 May 11
20:44:51.602: ISAKMP (0:1): sending packet to 172.18.124.196 my_port 500 peer_port 500 (R)
MM_SA_SETUP May 11 20:44:51.602: ISAKMP (0:1): Input = IKE_MSG_INTERNAL, IKE_PROCESS_COMPLETE
May 11 20:44:51.602: ISAKMP (0:1): Old State = IKE_R_MM1 New State = IKE_R_MM2 May 11
20:44:52.130: ISAKMP (0:1): received packet from 172.18.124.196 dport 500 sport 500 Global (R)
MM_SA_SETUP May 11 20:44:52.130: ISAKMP (0:1): Input = IKE_MSG_FROM_PEER, IKE_MM_EXCH May 11
20:44:52.130: ISAKMP (0:1): Old State = IKE_R_MM2 New State = IKE_R_MM3 ..... May 11
20:44:52.954: ISAKMP (0:1): processing ID payload. message ID = 0 May 11 20:44:52.954: ISAKMP
(0:1): ID payload next-payload : 8 type : 1 address : 172.18.124.196 protocol : 17 port : 500
length : 12 May 11 20:44:52.958: ISAKMP (0:1): peer matches l2lvpn profile !--- ISAKMP profile
is matched in the router for LAN-to-LAN configuration. May 11 20:44:52.958: ISAKMP: Looking for
a matching key for 172.18.124.196 in default May 11 20:44:52.958: ISAKMP: Looking for a matching
key for 172.18.124.196 in vpn : success May 11 20:44:52.958: ISAKMP (0:1): Found ADDRESS key in
keyring vpn May 11 20:44:52.958: ISAKMP (0:1): processing HASH payload. message ID = 0 May 11
20:44:52.958: ISAKMP (0:1): SA authentication status: authenticated !--- Security Associations
are authenticated between the peers. May 11 20:44:52.994: ISAKMP (0:1): Old State =
IKE_P1_COMPLETE New State = IKE_P1_COMPLETE !--- Phase 1 negotiations completed. .... May 11
20:44:53.002: ISAKMP (0:1): Checking IPsec proposal 1 May 11 20:44:53.002: ISAKMP: transform 1,
ESP_3DES May 11 20:44:53.002: ISAKMP: attributes in transform: May 11 20:44:53.002: ISAKMP:
encaps is 1 (Tunnel) May 11 20:44:53.002: ISAKMP: SA life type in seconds May 11 20:44:53.002:
ISAKMP: SA life duration (basic) of 28800 May 11 20:44:53.002: ISAKMP: SA life type in kilobytes
May 11 20:44:53.002: ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0 May 11 20:44:53.002:
ISAKMP: authenticator is HMAC-SHA May 11 20:44:53.006: ISAKMP (0:1): atts are acceptable. !---
Phase 2 proposal accepted. May 11 20:44:53.006: IPSEC(validate_proposal_request): proposal part
#1, (key eng. msg.) INBOUND local= 172.18.124.195, remote= 172.18.124.196, local_proxy=
192.168.40.0/255.255.255.0/0/0 (type=4), remote_proxy= 192.168.10.0/255.255.255.0/0/0 (type=4),
!--- Encryption access-list verification process. protocol= ESP, transform= esp-3des esp-sha-
hmac (Tunnel), lifedur= 0s and 0kb, spi= 0x0(0), conn_id= 0, keysizes= 0, flags= 0x2 ... May 11
20:44:53.282: IPSEC(create_sa): sa created, (sa) sa_dest= 172.18.124.195, sa_prot= 50, sa_spi=
```

```
0xFBFA852C(4227499308), sa_trans= esp-3des esp-sha-hmac , sa_conn_id= 2000 May 11 20:44:53.282:
IPSEC(create_sa): sa created, (sa) sa_dest= 172.18.124.196, sa_prot= 50, sa_spi=
0x79EFEFCE(2045767630), sa_trans= esp-3des esp-sha-hmac , sa_conn_id= 2001 !--- SAs are created
with connection IDs. May 11 20:44:53.290: ISAKMP (0:1): received packet from 172.18.124.196
dport 500 sport 500 Global (R) QM_IDLE !--- Tunnel has been established. May 11 20:44:53.294:
ISAKMP (0:1): deleting node 156512779 error FALSE reason "quick mode done (await)" May 11
20:44:53.294: ISAKMP (0:1): Node 156512779, Input = IKE_MESG_FROM_PEER, IKE_QM_EXCH May 11
20:44:53.294: ISAKMP (0:1): Old State = IKE_QM_R_QM2 New State = IKE_QM_PHASE2_COMPLETE !---
Phase 2 negotiations complete.
```

## [A conexão do cliente ezvpn debuga usando o isakmp do debug crypto e o IPsec do debug crypto](#)

```
May 11 20:55:47.266: ISAKMP (0:0): received packet from 172.18.124.197
dport 500 sport 500 Global (N) NEW SA
May 11 20:55:47.266: ISAKMP: local port 500, remote port 500
May 11 20:55:47.270: ISAKMP: insert sa successfully sa = 81797590
May 11 20:55:47.270: ISAKMP (0:2): processing SA payload. message ID = 0
May 11 20:55:47.270: ISAKMP (0:2): processing ID payload. message ID = 0
May 11 20:55:47.274: ISAKMP (0:2): ID payload
next-payload : 13
type : 11
group id : polo protocol : 17 port : 0 length : 12 May 11 20:55:47.274: ISAKMP (0:2): peer
matches ezvpnprofile profile !--- Profile match for EzVPN Client connection. May 11
20:55:47.274: ISAKMP: Looking for a matching key for 172.18.124.197 in default May 11
20:55:47.274: ISAKMP: Looking for a matching key for 172.18.124.197 in vpn May 11 20:55:47.274:
ISAKMP: Created a peer struct for 172.18.124.197, peer port 500 May 11 20:55:47.274: ISAKMP:
Locking peer struct 0x81791484, IKE refcount 1 for crypto_ikmp_config_initialize_sa ... May 11
20:55:47.282: ISAKMP (0:2): Checking ISAKMP transform 1 against priority 20 policy !--- ISAKMP
policies are checked. May 11 20:55:47.282: ISAKMP: encryption AES-CBC May 11 20:55:47.282:
ISAKMP: keylength of 256 May 11 20:55:47.282: ISAKMP: hash SHA May 11 20:55:47.282: ISAKMP:
default group 2 May 11 20:55:47.282: ISAKMP: auth XAUTHInitPreShared May 11 20:55:47.282:
ISAKMP: life type in seconds May 11 20:55:47.282: ISAKMP: life duration (VPI) of 0x0 0x1 0x51
0x80 May 11 20:55:47.282: ISAKMP (0:2): Encryption algorithm offered does not match policy! May
11 20:55:47.286: ISAKMP (0:2): atts are not acceptable. Next payload is 3 ... May 11
20:55:47.306: ISAKMP (0:2): Checking ISAKMP transform 8 against priority 20 policy May 11
20:55:47.306: ISAKMP: encryption 3DES-CBC May 11 20:55:47.306: ISAKMP: hash MD5 May 11
20:55:47.306: ISAKMP: default group 2 May 11 20:55:47.306: ISAKMP: auth XAUTHInitPreShared May
11 20:55:47.306: ISAKMP: life type in seconds May 11 20:55:47.310: ISAKMP: life duration (VPI)
of 0x0 0x1 0x51 0x80 May 11 20:55:47.310: ISAKMP (0:2): atts are acceptable. Next payload is 3
!--- Phase 1 attributes are validated. May 11 20:55:47.530: ISAKMP (0:2): processing KE payload.
message ID = 0 May 11 20:55:47.798: ISAKMP (0:2): processing NONCE payload. message ID = 0 May
11 20:55:47.802: ISAKMP (0:2): vendor ID is NAT-T v3 May 11 20:55:47.802: ISAKMP (0:2): vendor
ID is NAT-T v2 May 11 20:55:47.802: ISAKMP (0:2): Input = IKE_MESG_FROM_PEER, IKE_AM_EXCH May 11
20:55:47.802: ISAKMP (0:2): Old State = IKE_READY New State = IKE_R_AM_AAA_AWAIT May 11
20:55:47.806: ISAKMP: got callback 1 May 11 20:55:47.810: ISAKMP (0:2): SKEYID state generated
May 11 20:55:47.810: ISAKMP (0:2): constructed NAT-T vendor-03 ID May 11 20:55:47.810: ISAKMP
(0:2): SA is doing pre-shared key authentication plus XAUTH using id type ID_IPV4_ADDR May 11
20:55:47.814: ISAKMP (0:2): ID payload next-payload : 10 type : 1 address : 172.18.124.195
protocol : 17 port : 0 length : 12 May 11 20:55:47.814: ISAKMP (2): Total payload length: 12 May
11 20:55:47.814: ISAKMP (0:2): sending packet to 172.18.124.197 my_port 500 peer_port 500 (R)
AG_INIT_EXCH May 11 20:55:47.814: ISAKMP (0:2): Input = IKE_MESG_FROM_AAA, PRESHARED_KEY_REPLY
May 11 20:55:47.818: ISAKMP (0:2): Old State = IKE_R_AM_AAA_AWAIT New State = IKE_R_AM2 May 11
20:55:49.114: ISAKMP (0:2): received packet from 172.18.124.197 dport 500 sport 500 Global (R)
AG_INIT_EXCH May 11 20:55:49.114: ISAKMP:received payload type 20 May 11 20:55:49.118:
ISAKMP:received payload type 20 May 11 20:55:49.118: ISAKMP (0:2): processing HASH payload.
message ID = 0 May 11 20:55:49.118: ISAKMP (0:2): processing NOTIFY INITIAL_CONTACT protocol 1
spi 0, message ID = 0, sa = 81797590 May 11 20:55:49.118: ISAKMP (0:2): SA authentication
status: authenticated !--- Phase 1 has been authenticated. May 11 20:55:49.118: ISAKMP (0:2):
Process initial contact, bring down existing phase 1 and 2 SA's with local 172.18.124.197
authentication status: authenticated May 11 20:55:49.122: ISAKMP (0:2): SA has been authenticated with 172.18.124.197
May 11 20:55:49.122: ISAKMP: Trying to insert a peer 172.18.124.195/172.18.124.197/500/, and
inserted successfully. May 11 20:55:49.126: ISAKMP: set new node 1554218001 to CONF_XAUTH !---
```

*User authentication phase starts.* May 11 20:55:49.126: ISAKMP (0:2): sending packet to 172.18.124.197 my\_port 500 peer\_port 500 (R) QM\_IDLE May 11 20:55:49.126: ISAKMP (0:2): purging node 155421800118.124.195 remote 172.18.124.197 remote port 500 May 11 20:55:49.130: ISAKMP (0:2): Input = IKE\_MSG\_FROM\_PEER, IKE\_AM\_EXCH May 11 20:55:49.130: ISAKMP (0:2): Old State = IKE\_R\_AM2 New State = IKE\_PL\_COMPLETE May 11 20:55:49.130: ISAKMP (0:2): **Need XAUTH** May 11 20:55:49.130: ISAKMP (0:2): FSM action returned error: 4 May 11 20:55:49.134: ISAKMP (0:2): Input = IKE\_MSG\_INTERNAL, IKE\_PHASE1\_COMPLETE May 11 20:55:49.134: ISAKMP (0:2): Old State = IKE\_PL\_COMPLETE New State = IKE\_XAUTH\_AAA\_START\_LOGIN\_AWAIT May 11 20:55:49.134: ISAKMP: got callback 1 May 11 20:55:49.134: ISAKMP: set new node -1233989434 to CONF\_XAUTH May 11 20:55:49.134: ISAKMP/xauth: **request attribute XAUTH\_USER\_NAME\_V2 !--- Username request.** May 11 20:55:49.134: ISAKMP/xauth: **request attribute XAUTH\_USER\_PASSWORD\_V2 !--- Password request.** May 11 20:55:49.138: ISAKMP (0:2): initiating peer config to 172.18.124.197. ID = -1233989434 May 11 20:55:49.138: ISAKMP (0:2): sending packet to 172.18.124.197 my\_port 500 peer\_port 500 (R) CONF\_XAUTH ... May 11 20:55:51.278: ISAKMP: got callback 1 May 11 20:55:51.278: ISAKMP (0:2): attributes sent in message: May 11 20:55:51.278: Address: 240.2.112.2 May 11 20:55:51.282: ISAKMP (0:2): **allocating address 172.25.70.6 !--- IP address assigned to EzVPN Client from the address pool.** May 11 20:55:51.282: ISAKMP: Sending private address: 172.25.70.6 May 11 20:55:51.286: ISAKMP: Sending APPLICATION\_VERSION string: Cisco Internetwork Operating System Software IOS (tm) C1700 Software (C1700-K9O3SY7-M), Version 12.3(9a), RELEASE SOFTWARE (fc4) Copyright (c) 1986-2004 by cisco Systems, Inc. Compiled Fri 23-Jul-04 02:20 by kellythw May 11 20:55:51.286: ISAKMP (0:2): responding to peer config from 172.18.124.197. ID = -591421152 May 11 20:55:51.290: ISAKMP (0:2): sending packet to 172.18.124.197 my\_port 500 peer\_port 500 (R) CONF\_ADDR May 11 20:55:51.290: ISAKMP (0:2): deleting node -591421152 error FALSE reason "" May 11 20:55:51.290: ISAKMP (0:2): Input = IKE\_MSG\_FROM\_AAA, IKE\_AAA\_GROUP\_ATTR May 11 20:55:51.290: ISAKMP (0:2): Old State = IKE\_CONFIG\_AUTHOR\_AAA\_AWAIT New State = IKE\_PL\_COMPLETE May 11 20:55:51.294: ISAKMP (0:2): Input = IKE\_MSG\_INTERNAL, IKE\_PHASE1\_COMPLETE May 11 20:55:51.294: ISAKMP (0:2): Old State = IKE\_PL\_COMPLETE New State = IKE\_PL\_COMPLETE May 11 20:55:53.102: ISAKMP (0:2): received packet from 172.18.124.197 dport 500 sport 500 Global (R) QM\_IDLE May 11 20:55:53.102: ISAKMP: set new node -183955662 to QM\_IDLE ... May 11 20:55:53.178: ISAKMP (0:2): IPsec policy invalidated proposal May 11 20:55:53.178: ISAKMP (0:2): Checking IPsec proposal 8 May 11 20:55:53.178: ISAKMP: transform 1, ESP\_3DES May 11 20:55:53.178: ISAKMP: attributes in transform: May 11 20:55:53.178: ISAKMP: encaps is 1 (Tunnel) May 11 20:55:53.178: ISAKMP: SA life type in seconds May 11 20:55:53.182: ISAKMP: SA life duration (basic) of 28800 May 11 20:55:53.182: ISAKMP: SA life type in kilobytes May 11 20:55:53.182: ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0 May 11 20:55:53.182: ISAKMP: authenticator is HMAC-MD5 May 11 20:55:53.182: ISAKMP (0:2): **atts are acceptable. !--- Proposals are validated.** May 11 20:55:53.182: IPSEC(validate\_proposal\_request): proposal part #1, (key eng. msg.) INBOUND local= 172.18.124.195, remote= 172.18.124.197, local\_proxy= 0.0.0.0/0.0.0.0/0 (type=4), remote\_proxy= 172.25.70.6/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-3des esp-md5-hmac (Tunnel), lifedur= 0s and 0kb, spi= 0x0(0), conn\_id= 0, keysize= 0, flags= 0x2 ... local\_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), remote\_proxy= 172.25.70.6/0.0.0.0/0/0 (type=1), protocol= ESP, transform= esp-3des esp-md5-hmac (Tunnel), lifedur= 28800s and 4608000kb, spi= 0x866452A1(2254721697), conn\_id= 2002, keysize= 0, flags= 0x2 May 11 20:55:53.458: IPSEC(initialize\_sas): , (key eng. msg.) OUTBOUND local= 172.18.124.195, remote= 172.18.124.197, local\_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), remote\_proxy= 172.25.70.6/0.0.0.0/0/0 (type=1), protocol= ESP, transform= esp-3des esp-md5-hmac (Tunnel), lifedur= 28800s and 4608000kb, spi= 0xCA8A5934(3398064436), conn\_id= 2003, keysize= 0, flags= 0xA May 11 20:55:53.458: IPSEC(kei\_proxy): head = rtp, map->ivrf = , kei->ivrf = May 11 20:55:53.458: IPSEC(kei\_proxy): head = rtp, map->ivrf = , kei->ivrf = May 11 20:55:53.462: IPSEC(kei\_proxy): head = rtp, map->ivrf = , kei->ivrf = May 11 20:55:53.462: IPSEC(add mtree): src 172.18.124.195, dest 172.25.70.6, dest\_port 0 May 11 20:55:53.462: IPSEC(create\_sa): sa created, (sa) sa\_dest= 172.18.124.195, sa\_prot= 50, sa\_spi= 0x866452A1(2254721697), sa\_trans= esp-3des esp-md5-hmac , sa\_conn\_id= 2002 May 11 20:55:53.462: IPSEC(create\_sa): sa created, (sa) sa\_dest= 172.18.124.197, sa\_prot= 50, sa\_spi= 0xCA8A5934(3398064436), sa\_trans= esp-3des esp-md5-hmac , sa\_conn\_id= 2003 **!--- Security Association Connection IDs.** May 11 20:55:54.442: ISAKMP (0:2): received packet from 172.18.124.197 dport 500 sport 500 Global (R) QM\_IDLE May 11 20:55:54.446: ISAKMP (0:2): deleting node -183955662 error FALSE reason "quick mode done (await)" May 11 20:55:54.446: ISAKMP (0:2): Node -183955662, Input = IKE\_MSG\_FROM\_PEER, IKE\_QM\_EXCH May 11 20:55:54.446: ISAKMP (0:2): Old State = IKE\_QM\_R\_QM2 New State = IKE\_QM\_PHASE2\_COMPLETE May 11 20:55:54.446: IPSEC(key\_engine): got a queue event... May 11 20:55:54.446: IPSEC(key\_engine\_enable\_outbound): rec'd enable notify from ISAKMP May 11 20:55:54.446: IPSEC(key\_engine\_enable\_outbound): enable SA with spi 3398064436/50 for 172.18.124.197 May 11 20:55:57.450: ISAKMP (0:2): received packet from 172.18.124.197 dport 500 sport 500 Global (R) QM\_IDLE May 11 20:55:57.450: ISAKMP: set new node -1115155724 to QM\_IDLE May 11 20:55:57.454:



ISAKMP (0:2): processing HASH payload. message ID = -1115155724 May 11 20:55:57.458: ISAKMP (0:2): processing SA payload. message ID = -1115155724 May 11 20:55:57.458: ISAKMP (0:2): Checking IPsec proposal 1 May 11 20:55:57.458: ISAKMP: transform 1, ESP\_AES May 11 20:55:57.458: ISAKMP: attributes in transform: May 11 20:55:57.458: ISAKMP: encaps is 1 (Tunnel) May 11 20:55:57.458: ISAKMP: SA life type in seconds May 11 20:55:57.458: ISAKMP: SA life duration (basic) of 28800 May 11 20:55:57.458: ISAKMP: SA life type in kilobytes May 11 20:55:57.458: ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0 May 11 20:55:57.458: ISAKMP: authenticator is HMAC-SHA May 11 20:55:57.458: ISAKMP: key length is 256 May 11 20:55:57.462: ISAKMP (0:2): **atts are acceptable.** May 11 20:55:57.462: IPSEC(validate\_proposal\_request): proposal part #1, (key eng. msg.) INBOUND local= 172.18.124.195, remote= 172.18.124.197, local\_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), remote\_proxy= 172.18.124.197/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-aes 256 esp-sha-hmac (Tunnel), lifedur= 0s and 0kb, spi= 0x0(0), conn\_id= 0, keysize= 256, flags= 0x2 ... May 11 20:55:58.362: ISAKMP (0:2): sending packet to 172.18.124.197 my\_port 500 peer\_port 500 (R) **QM\_IDLE !---** *Confirmation of tunnel establishment.* May 11 20:55:58.362: ISAKMP (0:2): Node -1115155724, Input = IKE\_MSG\_FROM\_IPSEC, IKE\_SPI\_REPLY May 11 20:55:59.438: ISAKMP (0:2): received packet from 172.18.124.197 dport 500 sport 500 Global (R) **QM\_IDLE** May 11 20:55:59.438: ISAKMP (0:2): deleting node -1115155724 error FALSE reason "quick mode done (await)" May 11 20:55:59.442: ISAKMP (0:2): Node -1115155724, Input = IKE\_MSG\_FROM\_PEER, IKE\_QM\_EXCH May 11 20:55:59.442: ISAKMP (0:2): Old State = IKE\_QM\_R\_QM2 New State = **IKE\_QM\_PHASE2\_COMPLETE**

## [Depurações de VPN Client em PIX End utilizando debug crypto isakmp e debug crypto ipsec](#)

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

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

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

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

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

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

next-payload : 13

type : 11

group id : **tennis** protocol : 17 port : 500 length : 14 **May 11 21:16:52.158: ISAKMP (0:3): peer matches softclient profile !---** *ISAKMP profile match for VPN Software Clients.* May 11 21:16:52.158: ISAKMP: Looking for a matching key for 172.18.173.80 in default May 11 21:16:52.158: ISAKMP: Looking for a matching key for 172.18.173.80 in vpn May 11 21:16:52.158: ISAKMP: Created a peer struct for 172.18.173.80, peer port 500 May 11 21:16:52.162: ISAKMP: Locking peer struct 0x81791484, IKE refcount 1 for crypto\_ikmp\_config\_initialize\_sa May 11 21:16:52.162: ISAKMP (0:3): Setting client config settings 81EEB340 May 11 21:16:52.162: ISAKMP (0:3): (Re)Setting client xauth list and state May 11 21:16:52.162: ISAKMP (0:3): processing vendor id payload May 11 21:16:52.162: ISAKMP (0:3): vendor ID seems Unity/DPD but major 215 mismatch May 11 21:16:52.162: ISAKMP (0:3): vendor ID is XAUTH May 11 21:16:52.162: ISAKMP (0:3): processing vendor id payload May 11 21:16:52.162: ISAKMP (0:3): vendor ID is DPD May 11 21:16:52.162: ISAKMP (0:3): processing vendor id payload May 11 21:16:52.166: ISAKMP (0:3): vendor ID seems Unity/DPD but major 123 mismatch May 11 21:16:52.166: ISAKMP (0:3): vendor ID is NAT-T v2 May 11 21:16:52.166: ISAKMP (0:3): processing vendor id payload May 11 21:16:52.166: ISAKMP (0:3): vendor ID seems Unity/DPD but major 194 mismatch May 11 21:16:52.166: ISAKMP (0:3): processing vendor id payload May 11 21:16:52.166: ISAKMP (0:3): vendor ID is Unity May 11 21:16:52.166: ISAKMP (0:3) Authentication by xauth preshared May 11 21:16:52.166: ISAKMP (0:3): **Checking ISAKMP transform 1 against priority 20 policy !---** *ISAKMP policy that matches against configured policy.* May 11 21:16:52.166: ISAKMP: encryption AES-CBC May 11 21:16:52.170: ISAKMP: hash SHA May 11 21:16:52.170: ISAKMP: default group 2 May 11 21:16:52.170: ISAKMP: auth XAUTHInitPreShared May 11 21:16:52.170: ISAKMP: life type in seconds May 11 21:16:52.170: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B May 11 21:16:52.170: ISAKMP: keylength of 256

May 11 21:16:52.170: ISAKMP (0:3): Encryption algorithm offered does not match policy! May 11 21:16:52.170: ISAKMP (0:3): atts are not acceptable. Next payload is 3 .... May 11 21:16:52.198: ISAKMP (0:3): Checking ISAKMP transform 10 against priority 20 policy May 11 21:16:52.198: ISAKMP: encryption 3DES-CBC May 11 21:16:52.202: ISAKMP: hash MD5 May 11 21:16:52.202: ISAKMP: default group 2 May 11 21:16:52.202: ISAKMP: auth XAUTHInitPreShared May 11 21:16:52.202: ISAKMP: life type in seconds May 11 21:16:52.202: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B May 11 21:16:52.202: ISAKMP (0:3): atts are acceptable. Next payload is 3 May 11 21:16:52.418: ISAKMP (0:3): processing KE payload. message ID = 0 May 11 21:16:52.686: ISAKMP (0:3): processing NONCE payload. message ID = 0 May 11 21:16:52.690: ISAKMP (0:3): vendor ID is NAT-T v2 May 11 21:16:52.690: ISAKMP (0:3): Input = IKE\_MSG\_FROM\_PEER, IKE\_AM\_EXCH May 11 21:16:52.690: ISAKMP (0:3): Old State = IKE\_READY New State = IKE\_R\_AM\_AAA\_AWAIT May 11 21:16:52.694: ISAKMP: got callback 1 May 11 21:16:52.698: ISAKMP (0:3): SKEYID state generated May 11 21:16:52.698: ISAKMP (0:3): constructed NAT-T vendor-02 ID May 11 21:16:52.702: ISAKMP (0:3): SA is doing pre-shared key authentication plus XAUTH using id type ID\_IPV4\_ADDR May 11 21:16:52.702: ISAKMP (0:3): ID payload next-payload : 10 type : 1 address : 172.18.124.195 protocol : 17 port : 0 length : 12 May 11 21:16:52.702: ISAKMP (3): Total payload length: 12 May 11 21:16:52.702: ISAKMP (0:3): sending packet to 172.18.173.80 my\_port 500 peer\_port 500 (R) AG\_INIT\_EXCH May 11 21:16:52.706: ISAKMP (0:3): Input = IKE\_MSG\_FROM\_AAA, PRESHARED\_KEY\_REPLY May 11 21:16:52.706: ISAKMP (0:3): Old State = IKE\_R\_AM\_AAA\_AWAIT New State = IKE\_R\_AM2 May 11 21:16:52.746: ISAKMP (0:3): received packet from 172.18.173.80 dport 500 sport 500 Global (R) AG\_INIT\_EXCH May 11 21:16:52.750: ISAKMP (0:3): processing HASH payload. message ID = 0 May 11 21:16:52.750: ISAKMP (0:3): processing NOTIFY INITIAL\_CONTACT protocol 1 spi 0, message ID = 0, sa = 8179D054 May 11 21:16:52.750: ISAKMP (0:3): **SA authentication status: authenticated !--- Phase 1 SAs are authenticated.** May 11 21:16:52.750: ISAKMP (0:3): Process initial contact, bring down existing phase 1 and 2 SA's with local 172.18.124.195 remote 172.18.173.80 remote port 500 May 11 21:16:52.750: ISAKMP (0:3): returning IP addr to the address pool May 11 21:16:52.754: ISAKMP:received payload type 20 May 11 21:16:52.754: ISAKMP:received payload type 20 May 11 21:16:52.754: ISAKMP (0:3): SA authentication status: authenticated May 11 21:16:52.754: ISAKMP (0:3): SA has been authenticated with 172.18.173.80 May 11 21:16:52.754: ISAKMP: Trying to insert a peer 172.18.124.195/172.18.173.80/500/, and inserted successfully. May 11 21:16:52.758: IPSEC(key\_engine): got a queue event... May 11 21:16:52.758: ISAKMP: set new node -1991824466 to **CONF\_XAUTH !--- User Authentication phase starts.** May 11 21:16:52.758: ISAKMP (0:3): sending packet to 172.18.173.80 my\_port 500 peer\_port 500 (R) QM\_IDLE May 11 21:16:52.762: ISAKMP (0:3): purging node -1991824466 May 11 21:16:52.762: ISAKMP: Sending phase 1 responder lifetime 86400 May 11 21:16:52.762: ISAKMP (0:3): Input = IKE\_MSG\_FROM\_PEER, IKE\_AM\_EXCH May 11 21:16:52.762: ISAKMP (0:3): Old State = IKE\_R\_AM2 New State = IKE\_P1\_COMPLETE May 11 21:16:52.762: ISAKMP (0:3): Need XAUTH May 11 21:16:52.762: ISAKMP (0:3): FSM action returned error: 4 May 11 21:16:52.766: ISAKMP (0:3): Input = IKE\_MSG\_INTERNAL, IKE\_PHASE1\_COMPLETE May 11 21:16:52.766: ISAKMP (0:3): Old State = IKE\_P1\_COMPLETE New State = IKE\_XAUTH\_AAA\_START\_LOGIN\_AWAIT May 11 21:16:52.766: ISAKMP: got callback 1 May 11 21:16:52.766: ISAKMP: set new node -1773462433 to CONF\_XAUTH May 11 21:16:52.766: ISAKMP/xauth: **request attribute XAUTH\_USER\_NAME\_V2 !--- Requests user name.** May 11 21:16:52.770: ISAKMP/xauth: **request attribute XAUTH\_USER\_PASSWORD\_V2 !--- Requests user password.** May 11 21:16:52.770: ISAKMP (0:3): initiating peer config to 172.18.173.80. ID = -1773462433 May 11 21:16:52.770: ISAKMP (0:3): sending packet to 172.18.173.80 my\_port 500 peer\_port 500 (R) CONF\_XAUTH May 11 21:16:52.770: ISAKMP (0:3): Input = IKE\_MSG\_FROM\_AAA, IKE\_AAA\_START\_LOGIN ... May 11 21:17:00.350: ISAKMP (0:3): Input = IKE\_MSG\_FROM\_PEER, IKE\_CFG\_REQUEST May 11 21:17:00.350: ISAKMP (0:3): Old State = IKE\_P1\_COMPLETE New State = IKE\_CONFIG\_AUTHOR\_AAA\_AWAIT May 11 21:17:00.434: ISAKMP: got callback 1 May 11 21:17:00.438: ISAKMP (0:3): attributes sent in message: May 11 21:17:00.438: Address: 0.2.0.0 May 11 21:17:00.438: ISAKMP (0:3): **allocating address 10.50.50.2 !--- Allocates the IP address for software VPN Client from the client IP pool.** May 11 21:17:00.438: ISAKMP: Sending private address: 10.50.50.2 May 11 21:17:00.442: ISAKMP: Sending ADDRESS\_EXPIRY seconds left to use the address: 86391 May 11 21:17:00.442: ISAKMP: Sending APPLICATION\_VERSION string: Cisco Internetwork Operating System Software IOS (tm) C1700 Software (C1700-K9O3SY7-M), Version 12.3(9a), RELEASE SOFTWARE (fc4) Copyright (c) 1986-2004 by cisco Systems, Inc. Compiled Fri 23-Jul-04 02:20 by kellythw May 11 21:17:00.442: ISAKMP (0/3): Unknown Attr: UNKNOWN (0x7008) May 11 21:17:00.446: ISAKMP (0/3): Unknown Attr: UNKNOWN (0x700A) May 11 21:17:00.446: ISAKMP (0/3): Unknown Attr: UNKNOWN (0x7005) May 11 21:17:00.446: ISAKMP (0:3): responding to peer config from 172.18.173.80. ID = 1330918554 May 11 21:17:00.450: ISAKMP (0:3): sending packet to 172.18.173.80 my\_port 500 peer\_port 500 (R) CONF\_ADDR May 11 21:17:00.450: ISAKMP (0:3): deleting node 1330918554 error FALSE reason "" May 11 21:17:00.450: ISAKMP (0:3): Input = IKE\_MSG\_FROM\_AAA, IKE\_AAA\_GROUP\_ATTR May 11 21:17:00.450: ISAKMP (0:3): Old State = IKE\_CONFIG\_AUTHOR\_AAA\_AWAIT New State = IKE\_P1\_COMPLETE May 11 21:17:00.454: ISAKMP (0:3): Input = IKE\_MSG\_INTERNAL, IKE\_PHASE1\_COMPLETE May 11 21:17:00.454: ISAKMP (0:3): Old State =

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IKE_P1_COMPLETE New State = IKE_P1_COMPLETE ... May 11 21:17:01.474: ISAKMP (0:3): Creating IPsec SAs !--- Creation of IPsec Security Associations. May 11 21:17:01.474: inbound SA from 172.18.173.80 to 172.18.124.195 (f/i) 0/ 0 (proxy 10.50.50.2 to 0.0.0.0) May 11 21:17:01.474: has spi 0x1B139B2F and conn_id 2000 and flags 2 May 11 21:17:01.474: lifetime of 2147483 seconds May 11 21:17:01.474: has client flags 0x0 May 11 21:17:01.474: outbound SA from 172.18.124.195 to 172.18.173.80 (f/i) 0/ 0 (proxy 0.0.0.0 to 10.50.50.2 ) May 11 21:17:01.474: has spi - 895677582 and conn_id 2001 and flags A May 11 21:17:01.474: lifetime of 2147483 seconds May 11 21:17:01.474: has client flags 0x0 May 11 21:17:01.478: ISAKMP (0:3): sending packet to 172.18.173.80 my_port 500 peer_port 500 (R) QM_IDLE May 11 21:17:01.478: ISAKMP (0:3): Node 896912581, Input = IKE_MESG_FROM_IPSEC, IKE_SPI_REPLY May 11 21:17:01.478: ISAKMP (0:3): Old State = IKE_QM_SPI_STARVE New State = IKE_QM_R_QM2 May 11 21:17:01.482: IPSEC(key_engine): got a queue event... May 11 21:17:01.482: IPSEC(initialize_sas): , (key eng. msg.) INBOUND local= 172.18.124.195, remote= 172.18.173.80, local_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), remote_proxy= 10.50.50.2/0.0.0.0/0/0 (type=1), protocol= ESP, transform= esp-3des esp-sha-hmac (Tunnel), lifedur= 2147483s and 0kb, spi= 0x1B139B2F(454269743), conn_id= 2000, keysize= 0, flags= 0x2 May 11 21:17:01.482: IPSEC(initialize_sas): , (key eng. msg.) OUTBOUND local= 172.18.124.195, remote= 172.18.173.80, local_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), remote_proxy= 10.50.50.2/0.0.0.0/0/0 (type=1), protocol= ESP, transform= esp-3des esp-sha-hmac (Tunnel), lifedur= 2147483s and 0kb, spi= 0xCA9D0B72(3399289714), conn_id= 2001, keysize= 0, flags= 0xA May 11 21:17:01.486: IPSEC(kei_proxy): head = rtp, map->ivrf = , kei->ivrf = May 11 21:17:01.486: IPSEC(kei_proxy): head = rtp, map->ivrf = , kei->ivrf = May 11 21:17:01.486: IPSEC(add mtree): src 172.18.124.195, dest 10.50.50.2, dest_port 0 May 11 21:17:01.486: IPSEC(create_sa): sa created, (sa) sa_dest= 172.18.124.195, sa_prot= 50, sa_spi= 0x1B139B2F(454269743), sa_trans= esp-3des esp-sha-hmac , sa_conn_id= 2000 May 11 21:17:01.490: IPSEC(create_sa): sa created, (sa) sa_dest= 172.18.173.80, sa_prot= 50, sa_spi= 0xCA9D0B72(3399289714), sa_trans= esp-3des esp-sha-hmac , sa_conn_id= 2001 !--- Security Association connection IDs created. May 11 21:17:01.742: ISAKMP (0:3): received packet from 172.18.173.80 dport 500 sport 500 Global (R) QM_IDLE !--- Successful tunnel established. May 11 21:17:01.746: ISAKMP (0:3): deleting node 896912581 error FALSE reason "quick mode done (await)" May 11 21:17:01.746: ISAKMP (0:3): Node 896912581, Input = IKE_MESG_FROM_PEER, IKE_QM_EXCH May 11 21:17:01.746: ISAKMP (0:3): Old State = IKE_QM_R_QM2 New State = IKE_QM_PHASE2_COMPLETE May 11 21:17:01.746: IPSEC(key_engine): got a queue event... May 11 21:17:01.746: IPSEC(key_engine_enable_outbound): rec'd enable notify from ISAKMP May 11 21:17:01.746: IPSEC(key_engine_enable_outbound): enable SA with spi 3399289714/50 for 172.18.173.80

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## Debuga no PIX 501 (a conexão de LAN para LAN)

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PIX-501#
ISAKMP (0): beginning Main Mode exchange

crypto_isakmp_process_block:src:172.18.124.195, dest:172.18.124.196
 spt:500 dpt:500
OAK_MM exchange
ISAKMP (0): processing SA payload. message ID = 0

ISAKMP (0): Checking ISAKMP transform 1 against priority 10 policy !--- ISAKMP attributes check in process. ISAKMP: encryption 3DES-CBC ISAKMP: hash MD5 ISAKMP: default group 2 ISAKMP: auth pre-share ISAKMP: life type in seconds ISAKMP: life duration (VPI) of 0x0 0x1 0x51 0x80 ISAKMP (0): atts are acceptable. Next payload is 0 ISAKMP (0): SA is doing pre-shared key authentication using id type ID_IPV4_ADDR return status is IKMP_NO_ERROR
crypto_isakmp_process_block:src:172.18.124.195, dest:172.18.124.196 spt:500 dpt:500 OAK_MM exchange
ISAKMP (0): processing KE payload. message ID = 0 ISAKMP (0): processing NONCE payload. message ID = 0 ISAKMP (0): processing vendor id payload ISAKMP (0): processing vendor id payload ISAKMP (0): remote peer supports dead peer detection ISAKMP (0): processing vendor id payload ISAKMP (0): speaking to another IOS box! ISAKMP (0): processing vendor id payload ISAKMP (0): received xauth v6 vendor id ISAKMP (0): ID payload next-payload : 8 type : 1 protocol : 17 port : 500 length : 8 ISAKMP (0): Total payload length: 12 return status is IKMP_NO_ERROR
crypto_isakmp_process_block:src:172.18.124.195, dest:172.18.124.196 spt:500 dpt:500 OAK_MM exchange
ISAKMP (0): processing ID payload. message ID = 0 ISAKMP (0): processing HASH payload. message ID = 0 ISAKMP (0): SA has been authenticated ISAKMP (0): beginning Quick Mode exchange, M-ID of 156512779:954320bIPSEC (key_engine): got a queue event... IPSEC(spi_response): getting spi 0x79efefce(2045767630) for SA from 172.18.124.195 to 172.18.124.196 for prot 3 return status is IKMP_NO_ERROR ISAKMP (0): sending INITIAL_CONTACT notify ISAKMP (0): sending NOTIFY message 24578 protocol 1 VPN Peer: ISAKMP: Added new peer: ip:172.18.124.195/500 Total VPN Peers:1 VPN

```

```
Peer: ISAKMP: Peer ip:172.18.124.195/500 Ref cnt incremented to:1 Total VPN Peers:1
crypto_isakmp_process_block:src:172.18.124.195, dest:172.18.124.196 spt:500 dpt:500 OAK_QM
exchange oakley_process_quick_mode: OAK_QM_IDLE ISAKMP (0): processing SA payload. message ID =
156512779 ISAKMP : Checking IPsec proposal 1 ISAKMP: transform 1, ESP_3DES ISAKMP: attributes in
transform: ISAKMP: encaps is 1 ISAKMP: SA life type in seconds ISAKMP: SA life duration (basic)
of 28800 ISAKMP: SA life type in kilobytes ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0
ISAKMP: authenticator is HMAC-SHA ISAKMP (0): atts are acceptable. !--- Phase 1 attributes are
negotiated. IPSEC(validate_proposal_request): proposal part #1, (key eng. msg.) dest=
172.18.124.195, src= 172.18.124.196, dest_proxy= 192.168.40.0/255.255.255.0/0/0 (type=4),
src_proxy= 192.168.10.0/255.255.255.0/0/0 (type=4), protocol= ESP, transform= esp-3des esp-sha-
hmac , lifedur= 0s and 0kb, spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x4 ISAKMP (0):
processing NONCE payload. message ID = 156512779 ISAKMP (0): processing ID payload. message ID =
156512779 ISAKMP (0): processing ID payload. message ID = 156512779 ISAKMP (0): processing
NOTIFY payload 24576 protocol 3 spi 4227499308, message ID = 156512779 ISAKMP (0): processing
responder lifetime ISAKMP (0): responder lifetime of 3600s ISAKMP (0): Creating IPsec SAs
inbound SA from 172.18.124.195 to 172.18.124.196 (proxy 192.168.40.0 to 192.168.10.0) has spi
2045767630 and conn_id 1 and flags 4 lifetime of 3600 seconds lifetime of 4608000 kilobytes
outbound SA from 172.18.124.196 to 172.18.124.195 (proxy 192.168.10.0 to 192.168.40.0) has spi
4227499308 and conn_id 2 and flags 4 lifetime of 3600 seconds lifetime of 4608000
kilobytesIPSEC(key_engine): got a queue event... IPSEC(initialize_sas): , (key eng. msg.) dest=
172.18.124.196, src= 172.18.124.195, dest_proxy= 192.168.10.0/255.255.255.0/0/0 (type=4),
src_proxy= 192.168.40.0/255.255.255.0/0/0 (type=4), protocol= ESP, transform= esp-3des esp-sha-
hmac , lifedur= 3600s and 4608000kb, spi= 0x79efefce(2045767630), conn_id= 1, keysize= 0, flags=
0x4 IPSEC(initialize_sas): , (key eng. msg.) src= 172.18.124.196, dest= 172.18.124.195,
src_proxy= 192.168.10.0/255.255.255.0/0/0 (type=4), dest_proxy= 192.168.40.0/255.255.255.0/0/0
(type=4), protocol= ESP, transform= esp-3des esp-sha-hmac , lifedur= 3600s and 4608000kb, spi=
0xfbfa852c(4227499308), conn_id= 2, keysize= 0, flags= 0x4 !--- Phase 2 tunnel establishment.
```

## Debuga em PIX-506-B (a conexão do cliente ezvpn)

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

ISAKMP (0): Checking ISAKMP transform 1 against priority 65001 policy
ISAKMP: encryption 3DES-CBC
ISAKMP: hash MD5
ISAKMP: default group 2
ISAKMP: extended auth pre-share (init)
ISAKMP: life type in seconds
ISAKMP: life duration (VPI) of 0x0 0x1 0x51 0x80
ISAKMP (0): atts are not acceptable. Next payload is 0
...
ISAKMP (0): Checking ISAKMP transform 1 against priority 65008 policy
ISAKMP: encryption 3DES-CBC
ISAKMP: hash MD5
ISAKMP: default group 2
ISAKMP: extended auth pre-share (init)
ISAKMP: life type in seconds
ISAKMP: life duration (VPI) of 0x0 0x1 0x51 0x80
ISAKMP (0): atts are acceptable. Next payload is 0 !--- Phase 1 attributes are accepted. ISAKMP
(0): processing vendor id payload ISAKMP (0): processing vendor id payload ISAKMP (0): remote
peer supports dead peer detection ISAKMP (0): processing vendor id payload ISAKMP (0): speaking
to another IOS box! ISAKMP (0): processing vendor id payload ISAKMP (0): received xauth v6
```

```

vendor id ISAKMP (0): processing vendor id payload ISAKMP (0:0): vendor ID is NAT-T ISAKMP (0):
processing KE payload. message ID = 0 ISAKMP (0): processing ID payload. message ID = 0 ISAKMP
(0): processing NONCE payload. message ID = 0 ISAKMP (0): processing HASH payload. message ID =
0 ISAKMP (0:0): Detected NAT-D payload ISAKMP (0:0): recalc my hash for NAT-D ISAKMP (0:0): NAT
match MINE hash ISAKMP (0:0): Detected NAT-D payload ISAKMP (0:0): recalc his hash for NAT-D
ISAKMP (0:0): NAT match HIS hash ISAKMP (0): SA has been authenticated !--- SAs have been
authenticated. crypto_isakmp_process_block:src:172.18.124.195, dest:172.18.124.197 spt:500
dpt:500 ISAKMP (0): processing NOTIFY payload 24576 protocol 1 spi 0, message ID = 1554218001
ISAKMP (0): processing responder lifetime ISAKMP (0): phase 1 responder lifetime of 86400s
ISAKMP (0): not overriding 86400s return status is IKMP_NO_ERR_NO_TRANS
crypto_isakmp_process_block:src:172.18.124.195, dest:172.18.124.197 spt:500 dpt:500
ISAKMP_TRANSACTION exchange ISAKMP (0:0): processing transaction payload from 172.18.124.195.
message ID = 15250780 ISAKMP: Config payload CFG_REQUEST ISAKMP (0:0): checking request: !---
Extended authentication process check. ISAKMP: attribute XAUTH_USER_NAME (16521) ISAKMP:
attribute XAUTH_USER_PASSWORD (16522) ISAKMP (0:0): responding to peer config from
172.18.124.195. ID = 3060977862 return status is IKMP_NO_ERROR
crypto_isakmp_process_block:src:172.18.124.195, dest:172.18.124.197 spt:500 dpt:500
ISAKMP_TRANSACTION exchange ISAKMP (0:0): processing transaction payload from 172.18.124.195.
message ID = 15250780 ISAKMP: Config payload CFG_SET ISAKMP (0:0): checking SET: ISAKMP:
XAUTH_STATUS XAUTH-OK !--- Extended authentication checked. ISAKMP (0:0): attributes sent in
message: Status: 1 return status is IKMP_NO_ERROR ISAKMP : attributes being requested
INTERNAL_IPV_ADDRESS ALT_DEF_DOMAIN INTERNAL_IPV_NBNS INTERNAL_IPV_DNS ALT_SPLIT_INCLUDE
ALT_SPLITDNS_NAME ALT_PFS ALT_CFG_SEC_UNIT ALT_CFG_USER_AUTH ALT_CFG_IDLE_TIME ALT_CFG_IP_TEL
ALT_CFG_AUTH_SRVNAME ALT_CFG_AUTH_SRVPORT ALT_CFG_AUTH_SRVSEC ALT_BACKUP_SERVERS ... ISAKMP :
Checking IPsec proposal 1 ISAKMP: transform 1, ESP_3DES ISAKMP: attributes in transform: ISAKMP:
encaps is 1 ISAKMP: SA life type in seconds ISAKMP: SA life duration (basic) of 28800 ISAKMP: SA
life type in kilobytes ISAKMP: SA life duration (VPI) of 0x0 0x46 0x50 0x0 ISAKMP: authenticator
is HMAC-MD5 ISAKMP (0): atts are acceptable. !--- IPsec proposal accepted.
IPSEC(validate_proposal_request): proposal part #1, (key eng. msg.) dest= 172.18.124.195, src=
172.18.124.197, dest_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), src_proxy=
172.25.70.6/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-3des esp-md5-hmac ,
lifedur= 0s and 0kb, spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x4 ISAKMP (0): processing
NONCE payload. message ID = 4111011634 ISAKMP (0): processing ID payload. message ID =
4111011634 ISAKMP (0): processing ID payload. message ID = 4111011634 ISAKMP (0): processing
NOTIFY payload 24576 protocol 3 spi 2254721697, message ID = 4111011634 ISAKMP (0): processing
responder lifetime ISAKMP (0): responder lifetime of 3600s ISAKMP (0): Creating IPsec SAs
inbound SA from 172.18.124.195 to 172.18.124.197 (proxy 0.0.0.0 to 172.25.70.6) has spi
3398064436 and conn_id 2 and flags 4 lifetime of 3600 seconds lifetime of 4608000 kilobytes
outbound SA from 172.18.124.197 to 172.18.124.195 (proxy 172.25.70.6 to 0.0.0.0) has spi
2254721697 and conn_id 1 and flags 4 lifetime of 3600 seconds lifetime of 4608000
kilobytesIPSEC(key_engine): got a queue event... IPSEC(initialize_sas): , (key eng. msg.) dest=
172.18.124.197, src= 172.18.124.195, dest_proxy= 172.25.70.6/255.255.255.255/0/0 (type=1),
src_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), protocol= ESP, transform= esp-3des esp-md5-hmac ,
lifedur= 3600s and 4608000kb, spi= 0xca8a5934(3398064436), conn_id= 2, keysize= 0, flags= 0x4
IPSEC(initialize_sas): , (key eng. msg.) src= 172.18.124.197, dest= 172.18.124.195, src_proxy=
172.25.70.6/255.255.255.255/0/0 (type=1), dest_proxy= 0.0.0.0/0.0.0.0/0/0 (type=4), !--- IPsec
SAs created. protocol= ESP, transform= esp-3des esp-md5-hmac , lifedur= 3600s and 4608000kb,
spi= 0x866452a1(2254721697), conn_id= 1, keysize= 0, flags= 0x4

```

## Debuga no cliente VPN

Seleccione o **Start > Programs > o Cisco VPN Client > o Log Viewer.**

```

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

```

```

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

```

```

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

```

VID(Nat-T), VID(Frag), VID(Unity)) to 172.18.124.195

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

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

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

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

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

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

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

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

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

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

13 15:47:01.977 08/19/04 Sev=Info/5 IKE/0x63000071

**Automatic NAT Detection Status: Remote end is NOT behind a NAT device This end is NOT behind a NAT device !--- NAT device detection process.** 14 15:47:01.986 08/19/04 Sev=Info/5 IKE/0x6300002F  
Received ISAKMP packet: peer = 172.18.124.195 15 15:47:01.986 08/19/04 Sev=Info/4 IKE/0x63000014  
RECEIVING <<< ISAKMP OAK INFO \*(HASH, NOTIFY:STATUS\_RESP\_LIFETIME) from 172.18.124.195 16  
15:47:01.986 08/19/04 Sev=Info/5 IKE/0x63000044 RESPONDER-LIFETIME notify has value of 86400  
seconds 17 15:47:01.986 08/19/04 Sev=Info/5 IKE/0x63000046 This SA has already been alive for 0  
seconds, setting expiry to 86400 seconds from now 18 15:47:01.996 08/19/04 Sev=Info/5  
IKE/0x6300002F Received ISAKMP packet: peer = 172.18.124.195 19 15:47:01.996 08/19/04 Sev=Info/4  
IKE/0x63000014 RECEIVING <<< ISAKMP OAK TRANS \*(HASH, ATTR) from 172.18.124.195 20 15:47:02.689  
08/19/04 Sev=Info/4 IPSEC/0x63700008 IPsec driver successfully started 21 15:47:02.689 08/19/04  
Sev=Info/4 IPSEC/0x63700014 Deleted all keys 22 15:47:02.689 08/19/04 Sev=Info/6  
IPSEC/0x6370002B Sent 85 packets, 0 were fragmented. 23 15:47:06.044 08/19/04 Sev=Info/4  
IKE/0x63000013 SENDING >>> ISAKMP OAK TRANS \*(HASH, ATTR) to 172.18.124.195 24 15:47:06.064  
08/19/04 Sev=Info/5 IKE/0x6300002F Received ISAKMP packet: peer = 172.18.124.195 25 15:47:06.064  
08/19/04 Sev=Info/4 IKE/0x63000014 RECEIVING <<< ISAKMP OAK TRANS \*(HASH, ATTR) from  
172.18.124.195 26 15:47:06.064 08/19/04 Sev=Info/4 IKE/0x63000013 SENDING >>> ISAKMP OAK TRANS  
\*(HASH, ATTR) to 172.18.124.195 27 15:47:06.103 08/19/04 Sev=Info/5 IKE/0x6300005D Client  
sending a firewall request to concentrator 28 15:47:06.103 08/19/04 Sev=Info/5 IKE/0x6300005C  
Firewall Policy: Product=Cisco Systems Integrated Client, Capability=(Centralized Protection  
Policy). 29 15:47:06.113 08/19/04 Sev=Info/4 IKE/0x63000013 SENDING >>> ISAKMP OAK TRANS \*(HASH,  
ATTR) to 172.18.124.195 30 15:47:06.132 08/19/04 Sev=Info/5 IKE/0x6300002F Received ISAKMP  
packet: peer = 172.18.124.195 31 15:47:06.132 08/19/04 Sev=Info/4 IKE/0x63000014 RECEIVING <<<  
ISAKMP OAK TRANS \*(HASH, ATTR) from 172.18.124.195 32 15:47:06.132 08/19/04 Sev=Info/5  
IKE/0x63000010 **MODE\_CFG\_REPLY: Attribute = INTERNAL\_IPV4\_ADDRESS: , value = 10.50.50.2 !---  
Assigned IP address for the VPN Client.** 33 15:47:06.132 08/19/04 Sev=Info/5 IKE/0xA3000017  
MODE\_CFG\_REPLY: The received (INTERNAL\_ADDRESS\_EXPIRY) attribute and value (842150403) is not  
supported 34 15:47:06.132 08/19/04 Sev=Info/5 IKE/0x6300000E MODE\_CFG\_REPLY: Attribute =  
MODECFG\_UNITY\_DEFDOMAIN: , value = cisco.com 35 15:47:06.132 08/19/04 Sev=Info/5 IKE/0x6300000E  
MODE\_CFG\_REPLY: Attribute = APPLICATION\_VERSION, value = Cisco Internetwork Operating System

```

Software IOS (tm) C1700 Software (C1700-K9O3SY7-M), Version 12.3(9a), RELEASE SOFTWARE (fc4)
Copyright (c) 1986-2004 by cisco Systems, Inc. Compiled Fri 23-Jul-04 02:20 by kellythw 37
15:47:06.171 08/19/04 Sev=Info/4 IKE/0x63000013 SENDING >>> ISAKMP OAK QM *(HASH, SA, NON, ID,
ID) to 172.18.124.195 38 15:47:06.444 08/19/04 Sev=Info/5 IKE/0x6300002F Received ISAKMP packet:
peer = 172.18.124.195 39 15:47:06.454 08/19/04 Sev=Info/4 IKE/0x63000014 RECEIVING <<< ISAKMP
OAK QM *(HASH, SA, NON, ID, ID, NOTIFY:STATUS_RESP_LIFETIME from 172.18.124.195 40 15:47:06.454
08/19/04 Sev=Info/5 IKE/0x63000044 RESPONDER-LIFETIME notify has value of 3600 seconds 41
15:47:06.454 08/19/04 Sev=Info/5 IKE/0x63000045 RESPONDER-LIFETIME notify has value of 4608000
kb 42 15:47:06.454 08/19/04 Sev=Info/4 IKE/0x63000013 SENDING >>> ISAKMP OAK QM *(HASH) to
172.18.124.195 43 15:47:06.454 08/19/04 Sev=Info/5 IKE/0x63000058 Loading IPsec SA
(MsgID=83D109EC OUTBOUND SPI = 0x422186D5 INBOUND SPI = 0x5D94CB41) 44 15:47:06.454 08/19/04
Sev=Info/5 IKE/0x63000025 Loaded OUTBOUND ESP SPI: 0x422186D5 45 15:47:06.454 08/19/04
Sev=Info/5 IKE/0x63000026 Loaded INBOUND ESP SPI: 0x5D94CB41 46 15:47:09.307 08/19/04 Sev=Info/4
IPSEC/0x63700014 Deleted all keys 47 15:47:09.307 08/19/04 Sev=Info/4 IPSEC/0x63700010 Created a
new key structure 48 15:47:09.307 08/19/04 Sev=Info/4 IPSEC/0x6370000F Added key with
SPI=0xd5862142 into key list 49 15:47:09.307 08/19/04 Sev=Info/4 IPSEC/0x63700010 Created a new
key structure 50 15:47:09.307 08/19/04 Sev=Info/4 IPSEC/0x6370000F Added key with SPI=0x41cb945d
into key list 51 15:47:09.307 08/19/04 Sev=Info/4 IPSEC/0x6370002E Assigned VA private interface
addr 10.50.50.2 52 15:47:16.568 08/19/04 Sev=Info/6 IKE/0x6300003D Sending DPD request to
172.18.124.195, seq# = 2346900535 53 15:47:16.568 08/19/04 Sev=Info/4 IKE/0x63000013 SENDING >>>
ISAKMP OAK INFO *(HASH, NOTIFY:DPD_REQUEST) to 172.18.124.195 54 15:47:16.578 08/19/04
Sev=Info/5 IKE/0x6300002F Received ISAKMP packet: peer = 172.18.124.195 55 15:47:16.578 08/19/04
Sev=Info/4 IKE/0x63000014 RECEIVING <<< ISAKMP OAK INFO *(HASH, NOTIFY:DPD_ACK) from
172.18.124.195 56 15:47:16.578 08/19/04 Sev=Info/5 IKE/0x6300003F Received DPD ACK from
172.18.124.195, seq# received = 2346900536, seq# expected = 2346900536

```

## [Troubleshooting](#)

Esta seção fornece informações que podem ser usadas para o troubleshooting da sua configuração.

### [Comandos para Troubleshooting](#)

A [Output Interpreter Tool \(somente clientes registrados\)](#) oferece suporte a determinados comandos show, o que permite exibir uma análise da saída do comando show.

**Nota:** Consulte [Informações Importantes sobre Comandos de Depuração](#) antes de usar comandos debug.

- **mostre isakmp cripto sa** — Indica todo o Internet Key Exchange (IKE) atual SA em um par.VPN1750#`show crypto isakmp sa dst src state conn-id slot` 172.18.124.195 172.18.173.80 QM\_IDLE 3 0 !--- *VPN Client*. 172.18.124.195 172.18.124.197 QM\_IDLE 2 0 !--- *EzVPN between hub router and PIX-506-B*. 172.18.124.195 172.18.124.196 QM\_IDLE 1 0 !--- *EzVPN between hub router and PIX-501*.
- **mostre IPsec cripto sa** — Indica os ajustes usados por SA atuais.VPN1750#`show crypto ipsec sa interface: FastEthernet0 Crypto map tag: rtp, local addr. 172.18.124.195 protected vrf: local ident (addr/mask/prot/port): (192.168.40.0/255.255.255.0/0/0) remote ident (addr/mask/prot/port): (192.168.10.0/255.255.255.0/0/0) current_peer: 172.18.124.196:500 PERMIT, flags={origin_is_acl,} #pkts encaps: 4, #pkts encrypt: 4, #pkts digest 4 #pkts decaps: 4, #pkts decrypt: 4, #pkts verify 4 #pkts compressed: 0, #pkts decompressed: 0 #pkts not compressed: 0, #pkts compr. failed: 0 #pkts not decompressed: 0, #pkts decompress failed: 0 #send errors 0, #recv errors 0 local crypto endpt.: 172.18.124.195, remote crypto endpt.: 172.18.124.196 path mtu 1500, ip mtu 1500, ip mtu idb FastEthernet0 current outbound spi: DB79E16D inbound esp sas: spi: 0xAF634F08(2942521096) transform: esp-3des esp-sha-hmac , in use settings = {Tunnel, } slot: 0, conn id: 2000, flow_id: 1, crypto map: rtp sa timing: remaining key lifetime (k/sec): (4433404/3282) IV size: 8 bytes replay detection support: Y inbound ah sas: inbound pcp sas: outbound esp sas: spi: 0xDB79E16D(3682197869) transform: esp-3des esp-sha-hmac , in use settings = {Tunnel, } slot: 0, conn id: 2001, flow_id: 2, crypto map: rtp sa timing: remaining key lifetime (k/sec): (4433404/3282) IV size: 8 bytes`

```
replay detection support: Y outbound ah sas: outbound pcp sas: protected vrf: local ident
(addr/mask/prot/port): (172.18.124.195/0.0.0.0/0/0) remote ident (addr/mask/prot/port):
(50.50.50.7/255.255.255.255/0/0) current_peer: 172.18.173.80:500 PERMIT, flags={} #pkts
encaps: 6, #pkts encrypt: 6, #pkts digest 6 #pkts decaps: 47, #pkts decrypt: 47, #pkts
verify 47 #pkts compressed: 0, #pkts decompressed: 0 #pkts not compressed: 0, #pkts compr.
failed: 0 #pkts not decompressed: 0, #pkts decompress failed: 0 #send errors 0, #recv errors
0 local crypto endpt.: 172.18.124.195, remote crypto endpt.: 172.18.173.80 path mtu 1500, ip
mtu 1500, ip mtu idb FastEthernet0 current outbound spi: 72149A7D inbound esp sas: spi:
0x3467B12A(879210794) transform: esp-3des esp-sha-hmac , in use settings ={Tunnel, } slot:
0, conn id: 2006, flow_id: 7, crypto map: rtp sa timing: remaining key lifetime (k/sec):
(4381078/3577) IV size: 8 bytes replay detection support: Y inbound ah sas: inbound pcp sas:
outbound esp sas: spi: 0x72149A7D(1913952893) transform: esp-3des esp-sha-hmac , in use
settings ={Tunnel, } slot: 0, conn id: 2007, flow_id: 8, crypto map: rtp sa timing:
remaining key lifetime (k/sec): (4381086/3577) IV size: 8 bytes replay detection support: Y
outbound ah sas: outbound pcp sas: protected vrf: local ident (addr/mask/prot/port):
(172.18.124.195/0.0.0.0/0/0) remote ident (addr/mask/prot/port):
(172.25.70.8/255.255.255.255/0/0) current_peer: 172.18.124.197:500 PERMIT, flags={} #pkts
encaps: 3, #pkts encrypt: 3, #pkts digest 3 #pkts decaps: 3, #pkts decrypt: 3, #pkts verify
3 #pkts compressed: 0, #pkts decompressed: 0 #pkts not compressed: 0, #pkts compr. failed: 0
#pkts not decompressed: 0, #pkts decompress failed: 0 #send errors 0, #recv errors 0 local
crypto endpt.: 172.18.124.195, remote crypto endpt.: 172.18.124.197 path mtu 1500, ip mtu
1500, ip mtu idb FastEthernet0 current outbound spi: 2DE8E3C9 inbound esp sas: spi:
0xED6381E5(3982721509) transform: esp-3des esp-md5-hmac , in use settings ={Tunnel, } slot:
0, conn id: 2002, flow_id: 3, crypto map: rtp sa timing: remaining key lifetime (k/sec):
(4561846/3283) IV size: 8 bytes replay detection support: Y inbound ah sas: inbound pcp sas:
outbound esp sas: spi: 0x2DE8E3C9(770237385) transform: esp-3des esp-md5-hmac , in use
settings ={Tunnel, } slot: 0, conn id: 2003, flow_id: 4, crypto map: rtp sa timing:
remaining key lifetime (k/sec): (4561846/3281) IV size: 8 bytes replay detection support: Y
outbound ah sas: outbound pcp sas: protected vrf: local ident (addr/mask/prot/port):
(172.18.124.195/0.0.0.0/0/0) remote ident (addr/mask/prot/port):
(172.18.124.197/255.255.255.255/0/0) current_peer: 172.18.124.197:500 PERMIT, flags={} #pkts
encaps: 0, #pkts encrypt: 0, #pkts digest 0 #pkts decaps: 0, #pkts decrypt: 0, #pkts verify
0 #pkts compressed: 0, #pkts decompressed: 0 #pkts not compressed: 0, #pkts compr. failed: 0
#pkts not decompressed: 0, #pkts decompress failed: 0 #send errors 0, #recv errors 0 local
crypto endpt.: 172.18.124.195, remote crypto endpt.: 172.18.124.197 path mtu 1500, ip mtu
1500, ip mtu idb FastEthernet0 current outbound spi: 87066AED inbound esp sas: spi:
0x8C8106A4(2357266084) transform: esp-3des esp-md5-hmac , in use settings ={Tunnel, } slot:
0, conn id: 2004, flow_id: 5, crypto map: rtp sa timing: remaining key lifetime (k/sec):
(4525643/3285) IV size: 8 bytes replay detection support: Y inbound ah sas: inbound pcp sas:
outbound esp sas: spi: 0x87066AED(2265344749) transform: esp-3des esp-md5-hmac , in use
settings ={Tunnel, } slot: 0, conn id: 2005, flow_id: 6, crypto map: rtp sa timing:
remaining key lifetime (k/sec): (4525643/3285) IV size: 8 bytes replay detection support: Y
outbound ah sas: outbound pcp sas:
```

## [Informações Relacionadas](#)

- [Troubleshooting de PIX para Passagem de Tráfego de Dados em um Túnel de IPSec Estabelecido](#)
- [Troubleshooting de Segurança de IP - Entendendo e Utilizando Comandos debug](#)
- [Páginas de suporte do produto dos Firewall da série PIX 500](#)
- [Páginas de suporte da tecnologia IPSec](#)
- [Página de Suporte do Cisco VPN Client](#)
- [Referências de comando PIX](#)
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- [Suporte Técnico e Documentação - Cisco Systems](#)