

PIX-à-PIX 6.x: Exemplo de configuração fácil VPN (NEM)

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[Introdução](#)

Este documento fornece uma configuração de exemplo para o IPsec entre o cliente da ferragem do Easy VPN Remote PIX e o Easy VPN Server PIX. O recurso Easy VPN Remote para o PIX foi introduzido na versão 6.2 e também é chamado de cliente de hardware/cliente EzVPN. O server do Cisco Easy VPN é apoiado na versão de software de PIX 6.0 e mais atrasado.

Refira [PIX/ASA 7.x VPN fácil com um ASA 5500 enquanto o server e PIX 506E como o exemplo de configuração do cliente \(NEM\)](#) a fim aprender uma encenação mais mais ou menos idêntica aonde a ferramenta de segurança seja executado com versão de software 7.x.

Refira [PIX/ASA 7.x VPN fácil com um ASA 5500 como o server e Cisco 871 como o exemplo de configuração do Easy VPN Remote](#) para obter mais informações sobre de uma encenação similar onde o Cisco 871 Router atue como o Easy VPN Remote.

Refira o [cliente da ferragem VPN em uma ferramenta de segurança do 501/506 Series PIX com exemplo de configuração do VPN 3000 concentrator](#) para obter mais informações sobre de uma encenação similar onde o Cisco VPN 3000 Concentrator atue como o Easy VPN Server.

Refira o [Easy VPN Remote PIX 501/506 a um IOS Router no modo da extensão de rede com exemplo de configuração da autenticação estendida](#) para obter mais informações sobre de uma encenação similar onde o roteador de Cisco IOS® atue como o Easy VPN Server.

Pré-requisitos

Requisitos

Certifique-se de atender a estes requisitos antes de tentar esta configuração:

- Assegure-se de que seu cliente da ferragem do Easy VPN Remote PIX seja um PIX 501 ou um PIX 506/506E que executa a versão de software de PIX 6.2 ou mais atrasado.
- Assegure-se de que seu Easy VPN Server seja um PIX Firewall que executa a versão de software de PIX 6.0 ou mais atrasado.

Componentes Utilizados

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

- O cliente da ferragem do Easy VPN Remote PIX é um PIX 501 que executa a versão de software de PIX 6.3(1).
- O Easy VPN Server é um PIX 515 que executa a versão de software de PIX 6.3(1).

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 [Command Lookup Tool](#) ([somente clientes registrados](#)) para obter mais informações sobre os comandos usados nesta seção.

Diagrama de Rede

Este documento utiliza a seguinte configuração de rede:

Configurações

Este documento utiliza as seguintes configurações:

- [Easy VPN Server PIX](#)
- [Cliente da ferragem do Easy VPN Remote PIX](#)

Easy VPN Server PIX

```
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. vpngroup
```

```
mygroup address-pool ippool vpngrp mygroup dns-server
10.2.2.2 vpngrp mygroup wins-server 10.2.2.2 vpngrp
mygroup default-domain cisco.com vpngrp mygroup split-
tunnel 101 vpngrp mygroup idle-time 1800 vpngrp
mygroup password ***** vpngrp idle-time idle-time
1800 telnet timeout 5 ssh timeout 5 console timeout 0
terminal width 80
Cryptochecksum:67106d7a5a3aa3da0caaeaa93b9fc8d6 : end
[OK] pix515#
```

Cliente da ferragem do Easy VPN Remote PIX

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

Verificar

Use esta seção para confirmar se a sua configuração funciona corretamente.

A [Output Interpreter Tool \(apenas para clientes registrados\)](#) (OIT) suporta determinados comandos show. Use a OIT para exibir uma análise da saída do comando show.

[Comandos show e exemplo de saída do Easy VPN Server PIX](#)

- **mostre isakmp cripto sa** — Indica todas as associações de segurança atuais do Internet Key Exchange (IKE) (SA) em um par. `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#
- **mostre IPsec cripto sa** — Sas de IPsec dos indicadores construído entre pares. `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): (172.16.1.1/255.255.255.0/0/0) 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#

Comandos show e exemplo de saída do cliente da ferragem do Easy VPN Remote PIX

- **vpnclient permita** — Permite uma conexão do Easy VPN Remote. (No modo de extensão de rede (NEM), o túnel está acima mesmo quando não há nenhum tráfego interessante a ser trocado com o Easy VPN Server do final do cabeçalho.) `pix501(config)#vpnclient enable`
- **show crypto isakmp policy** Exibe os parâmetros para cada política IKE. `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 **A saída do comando show crypto isakmp policy após o cliente da ferragem é permitida é mostrada aqui.** `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** – Exibe todas as SAs de IKE atuais em um

```
correspondente.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
```

- **mostre IPsec cripto sa** — Sas de IPsec dos indicadores construído entre

```
pares.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, #rcv
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** - exibe informações sobre configuração do dispositivo VPN Client ou Easy VPN Remote

```
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)#
```

Troubleshooting

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

Se você estabeleceu o cliente da ferragem e o Easy VPN Server do Easy VPN Remote como descrito neste documento e ainda experimenta problemas, recolha o resultado do debug de cada PIX e a saída dos **comandos show** para a análise pelo centro de assistência técnica da Cisco (TAC). Igualmente refira a [pesquisa de defeitos do PIX para passar o tráfego de dados em um túnel IPsec estabelecido](#) ou no [Troubleshooting de Segurança IP - compreendendo e usando comandos debug](#). Permita o ipsec debugging no PIX.

Os comandos e o exemplo de saída do PIX debug são mostrados aqui.

- [Comandos do Easy VPN Server](#)
- [Comandos do cliente da ferragem do Easy VPN Remote](#)

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

Comandos do Easy VPN Server

- **IPsec do debug crypto** — Indica as negociações de IPSEC de fase 2.
- **debug crypto isakmp** — Exibe as negociações ISAKMP da Fase 1.

Esse é o exemplo de saída.

```
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 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


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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 0IPSEC(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

```

[Comandos do cliente da ferragem do Easy VPN Remote](#)

- **IPsec do debug crypto** — Indica as negociações de IPSEC de fase 2.
- **debug crypto isakmp** — Exibe as negociações ISAKMP da Fase 1.

```

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

- **debugar vpncient** — Indica as negociações específicas ao cliente VPN.

```
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
```

[Informações Relacionadas](#)

- [Página de suporte do PIX](#)
- [Referências de comando PIX](#)
- [Página de suporte dos protocolos do IPsec Negotiations/IKE](#)
- [Solicitações de Comentários \(RFCs\)](#)
- [Suporte Técnico - Cisco Systems](#)