

Configurando o Roteador para Cliente de VPN, Mode-Config, Chave pré-compartilhada de caracteres gerais com NAT

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[Introdução](#)

Esta configuração de exemplo ilustra um roteador configurado para a configuração de modo (o usuário obtém um endereço IP de um conjunto), as chaves pré-compartilhadas curinga (todos clientes PC compartilham uma chave em comum) e a Tradução de Endereço de Rede (NAT). Nesta configuração, um usuário externo pode entrar na rede e ter um endereço IP interno atribuído ao pool. Aos usuários, parece que estão dentro da rede. Devido ao endereçamento privado, portanto, a NAT está envolvida, o roteador deve ser informado sobre o que traduzir e o que não traduzir.

[Pré-requisitos](#)

[Requisitos](#)

Não existem requisitos específicos para este documento.

[Componentes Utilizados](#)

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

- Software Release 12.0.7T ou Mais Recente de Cisco IOS®

- Hardware que apoia esta revisão do software
- Cliente 1.0/10A ou 1.1 do CiscoSecure VPN (mostrado como 2.0.7/E ou 2.1.12, respectivamente, vá ao **ajuda > sobre** verificar)

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

Para obter mais informações sobre convenções de documento, consulte as [Convenções de dicas técnicas Cisco](#).

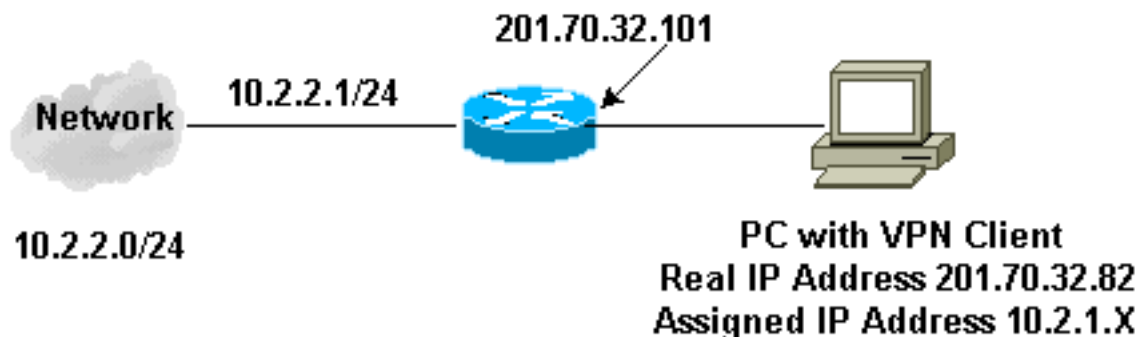
Configurar

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

Nota: Para localizar informações adicionais sobre os comandos usados neste documento, utilize a Ferramenta Command Lookup (somente clientes [registrados](#)).

Diagrama de Rede

Este documento utiliza a configuração de rede mostrada neste diagrama.



Configurações

Este documento utiliza estas configurações.

- [Cliente de VPN](#)
- [Router](#)

Configuração de cliente de VPN
<pre> Network Security policy: 1- Myconn My Identity = ip address Connection security: Secure Remote Party Identity and addressing ID Type: IP subnet </pre>

```
10.2.2.0
Port all Protocol all
```

```
Connect using secure tunnel
ID Type: IP address
201.70.32.101
```

```
Authentication (Phase 1)
Proposal 1
    Authentication method: pre-shared key
    Encryp Alg: DES
    Hash Alg: MD5
    SA life: Unspecified
    Key Group: DH 1
```

```
Key exchange (Phase 2)
Proposal 1
    Encapsulation ESP
    Encrypt Alg: DES
    Hash Alg: MD5
    Encap: tunnel
    SA life: Unspecified
    no AH
```

2- Other Connections

```
Connection security: Non-secure
Local Network Interface
    Name: Any
    IP Addr: Any
    Port: All
```

Configuração do roteador

```
Current configuration:
!
version 12.0
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
!
hostname Router
!
enable secret 5 $1$v50P$mPuiEQn8ULa8hVMYVOV1D.
enable password ww
!
ip subnet-zero
!
cns event-service server
!
!--- IKE configuration. crypto isakmp policy 1 hash md5
authentication pre-share crypto isakmp key cisco123
address 0.0.0.0 crypto isakmp client configuration
address-pool local ourpool ! -- IPsec configuration.
crypto ipsec transform-set trans1 esp-des esp-md5-hmac !
crypto dynamic-map dynmap 10 set transform-set trans1 !
crypto map intmap client configuration address initiate
crypto map intmap client configuration address respond
crypto map intmap 10 ipsec-isakmp dynamic dynmap !
interface Ethernet0 ip address 201.70.32.101
255.255.255.0 no ip directed-broadcast ip nat outside no
ip route-cache no ip mroute-cache crypto map intmap !
interface Serial1 ip address 10.2.2.1 255.255.255.0 no
ip directed-broadcast ip nat inside ! ip local pool
ourpool 10.2.1.1 10.2.1.254 ip nat pool outsidepool
201.70.32.150 201.70.32.160 netmask 255.255.255.0 !---
```

```
Except the private network to private network traffic !-
-- from the NAT process. ip nat inside source route-map
nonat pool outsidepool ip classless ip route 0.0.0.0
0.0.0.0 201.70.32.1 no ip http server !--- Except the
private network to private network traffic !--- from the
NAT process. access-list 101 deny ip 10.2.2.0 0.0.0.255
10.2.1.0 0.0.0.255 access-list 101 permit ip 10.2.2.0
0.0.0.255 any route-map nonat permit 10 match ip address
101 ! line con 0 transport input none line aux 0 line
vty 0 4 password ww login ! end
```

Verificar

Esta seção fornece informações que você pode usar para confirmar se sua configuração está funcionando adequadamente.

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

- **active do show crypto engine connections** — Mostra os pacotes criptografado e decriptografado.
- **show crypto ipsec sa** – Mostra as associações de segurança da fase 2.
- **show crypto isakmp sa** - Mostra as associações de segurança da fase 1.

Troubleshooting

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

Comandos para Troubleshooting

Nota: [Antes de emitir comandos de depuração, consulte as informações importantes sobre eles.](#)

Estes debugam devem ser executado em ambos os roteadores de IPSec (pares). A limpeza de associações de segurança deve ser feita em ambos os correspondentes.

- **IPsec do debug crypto** — Indica as negociações de IPSEC de fase 2.
- **isakmp do debug crypto** — Indica as negociações de ISAKMP de fase 1.
- **debug crypto engine** — Exibe o tráfego que está criptografado.
- **clear crypto isakmp** — Limpa as associações de segurança relacionadas à fase 1.
- **clear crypto sa** — Limpa as associações de segurança relacionadas à fase 2.

Exemplo de debug

Depurações de roteador

```
Apr 18 15:17:59: ISAKMP (4): received packet from
201.70.32.82 (R) MM_NO_STATE
Apr 18 15:17:59: ISAKMP (4): received packet from
201.70.32.82 (R) MM_NO_STATE
Apr 18 15:18:03: ISAKMP (0): received packet from
201.70.32.82 (N) NEW SA
```

```
Apr 18 15:18:03: ISAKMP (0:5): processing SA payload.
message ID = 0
Apr 18 15:18:03: ISAKMP (0:5): Checking ISAKMP transform
1
against priority 1 policy
Apr 18 15:18:03: ISAKMP: encryption DES-CBC
Apr 18 15:18:03: ISAKMP: hash MD5
Apr 18 15:18:03: ISAKMP: default group 1
Apr 18 15:18:03: ISAKMP: auth pre-share
Apr 18 15:18:03: ISAKMP (0:5): atts are acceptable.
Next payload is 0
Apr 18 15:18:03: CryptoEngine0: generate alg parameter
Apr 18 15:18:05: CRYPTO_ENGINE: Dh phase 1 status: 0
Apr 18 15:18:05: CRYPTO_ENGINE: Dh phase 1 status: 0
Apr 18 15:18:05: ISAKMP (0:5): SA is doing pre-shared
key authentication
Apr 18 15:18:05: ISAKMP (5): SA is doing pre-shared
key authentication using id type ID_IPV4_ADDR
Apr 18 15:18:05: ISAKMP (5): sending packet to
201.70.32.82 (R) MM_SA_SETUP
Apr 18 15:18:05: ISAKMP (5): received packet from
201.70.32.82 (R) MM_SA_SETUP
Apr 18 15:18:05: ISAKMP (0:5): processing KE payload.
message ID = 0
Apr 18 15:18:05: CryptoEngine0: generate alg parameter
Apr 18 15:18:05: CRYPTO_ENGINE: Dh phase 1 status: 0
Apr 18 15:18:05: CRYPTO_ENGINE: Dh phase 1 status: 0
Apr 18 15:18:05: ISAKMP (0:5): SA is doing pre-shared
key authentication
Apr 18 15:18:05: ISAKMP (5): SA is doing pre-shared
key authentication using id
type ID_IPV4_ADDR
Apr 18 15:18:05: ISAKMP (5): sending packet to
201.70.32.82 (R) MM_SA_SETUP
Apr 18 15:18:05: ISAKMP (5): received packet from
201.70.32.82 (R) MM_SA_SETUP
Apr 18 15:18:05: ISAKMP (0:5): processing KE payload.
message ID = 0
Apr 18 15:18:05: CryptoEngine0: generate alg parameter
Apr 18 15:18:07: ISAKMP (0:5): processing NONCE payload.
message ID = 0
Apr 18 15:18:07: CryptoEngine0: create ISAKMP SKEYID for
conn id 5
Apr 18 15:18:07: ISAKMP (0:5): SKEYID state generated
Apr 18 15:18:07: ISAKMP (0:5): processing vendor id
payload
Apr 18 15:18:07: ISAKMP (0:5): processing vendor id
payload
Apr 18 15:18:07: ISAKMP (5): sending packet to
201.70.32.82
(R) MM_KEY_EXCH
Apr 18 15:18:07: ISAKMP (0:4): purging SA.
Apr 18 15:18:07: ISAKMP (0:4): purging node -1412157317
Apr 18 15:18:07: ISAKMP (0:4): purging node 1875403554
Apr 18 15:18:07: CryptoEngine0: delete connection 4
Apr 18 15:18:08: ISAKMP (5): received packet from
201.70.32.82 (R) MM_KEY_EXCH
Apr 18 15:18:08: ISAKMP (0:5): processing ID payload.
message ID = 0
Apr 18 15:18:08: ISAKMP (0:5): processing HASH payload.
message ID = 0
Apr 18 15:18:08: CryptoEngine0: generate hmac context
for conn id 5
Apr 18 15:18:08: ISAKMP (5): processing NOTIFY payload
```

```
24578 protocol 1 spi 0, message ID = 0
Apr 18 15:18:08: ISAKMP (0:5): SA has been authenticated
with 201.70.32.82
Apr 18 15:18:08: ISAKMP (5): ID payload
    next-payload : 8
    type          : 1
    protocol      : 17
    port          : 500
    length        : 8
Apr 18 15:18:08: ISAKMP (5): Total payload length: 12
Apr 18 15:18:08: CryptoEngine0: generate hmac context
for conn id 5
Apr 18 15:18:08: CryptoEngine0: clear dh number
for conn id 1
Apr 18 15:18:08: ISAKMP (5): sending packet to
201.70.32.82 (R) QM_IDLE
Apr 18 15:18:08: ISAKMP (5): received packet from
201.70.32.82 (R) QM_IDLE
Apr 18 15:18:08: ISAKMP (0:5): Locking struct 14D0DC
on allocation
Apr 18 15:18:08: ISAKMP (0:5): allocating address
10.2.1.1
Apr 18 15:18:08: CryptoEngine0: generate hmac context
for conn id 5
Apr 18 15:18:08: ISAKMP (0:5): initiating peer config to
201.70.32.82. message ID = 1226793520
Apr 18 15:18:08: ISAKMP (5): sending packet to
201.70.32.82
(R) QM_IDLE
Apr 18 15:18:09: ISAKMP (5): received packet from
201.70.32.82
(R) QM_IDLE
Apr 18 15:18:09: ISAKMP (0:5): processing transaction
payload
from 201.70.32.82. message ID = 1226793520
Apr 18 15:18:09: ISAKMP: recieved config from
201.70.32.82 .
Apr 18 15:18:09: CryptoEngine0: generate hmac context
for conn id 5
Apr 18 15:18:09: ISAKMP:      Config payload type: 4
Apr 18 15:18:09: ISAKMP (0:5): peer accepted the
address!
Apr 18 15:18:09: ISAKMP (0:5): adding static route for
10.2.1.1
Apr 18 15:18:09: ISAKMP (0:5): deleting node 1226793520
Apr 18 15:18:09: CryptoEngine0: generate hmac context
for
conn id 5
Apr 18 15:18:09: ISAKMP (0:5): processing SA payload.
message ID = -617682048
Apr 18 15:18:09: ISAKMP (0:5): Checking IPsec proposal 1
Apr 18 15:18:09: ISAKMP: transform 1, ESP_DES
Apr 18 15:18:09: ISAKMP:      attributes in transform:
Apr 18 15:18:09: ISAKMP:      authenticator is HMAC-MD5
Apr 18 15:18:09: ISAKMP:      encaps is 1
Apr 18 15:18:09: validate proposal 0
Apr 18 15:18:09: ISAKMP (0:5): atts are acceptable.
Apr 18 15:18:09: IPSEC(validate_proposal_request):
proposal part #1, (key eng. msg.) dest=
201.70.32.101,
src= 201.70.32.82, dest_proxy=
10.2.2.0/255.255.255.0/0/0
(type=4), src_proxy= 10.2.1.1/255.255.255.255/0/0
(type=1),
```

```
protocol= ESP, transform= esp-des esp-md5-hmac ,
lifedur= 0s and 0kb, spi= 0x0(0), conn_id= 0,
keysize= 0,
flags= 0x4
Apr 18 15:18:09: validate proposal request 0
Apr 18 15:18:09: ISAKMP (0:5): processing NONCE payload.
message ID = -617682048
Apr 18 15:18:09: ISAKMP (0:5): processing ID payload.
message ID = -617682048
Apr 18 15:18:09: ISAKMP (5): ID_IPV4_ADDR src 10.2.1.1
prot 0 port 0
Apr 18 15:18:09: ISAKMP (0:5): processing ID payload.
message ID = -617682048
Apr 18 15:18:09: ISAKMP (5): ID_IPV4_ADDR_SUBNET dst
10.2.2.0/255.255.255.0 prot 0 port 0
Apr 18 15:18:09: IPSEC(key_engine): got a queue event...
Apr 18 15:18:09: IPSEC(spi_response): getting spi
153684796 for SA from 201.70.32.82 to
201.70.32.101
for prot 3
Apr 18 15:18:09: CryptoEngine0: generate hmac context
for conn id 5
Apr 18 15:18:09: ISAKMP (5): sending packet to
201.70.32.82
(R) QM_IDLE
Apr 18 15:18:09: ISAKMP (5): received packet from
201.70.32.82
(R) QM_IDLE
Apr 18 15:18:09: CryptoEngine0: generate hmac context
for conn id 5
Apr 18 15:18:09: ISAKMP (0:5): processing SA payload.
message ID = -1078114754
Apr 18 15:18:09: ISAKMP (0:5): Checking IPsec proposal 1
Apr 18 15:18:10: ISAKMP: transform 1, ESP_DES
Apr 18 15:18:10: ISAKMP: attributes in transform:
Apr 18 15:18:10: ISAKMP: authenticator is HMAC-MD5
Apr 18 15:18:10: ISAKMP: encaps is 1
Apr 18 15:18:10: validate proposal 0
Apr 18 15:18:10: ISAKMP (0:5): atts are acceptable.
Apr 18 15:18:10: IPSEC(validate_proposal_request):
proposal part #1, (key eng. msg.) dest=
201.70.32.101,
src= 201.70.32.82, dest_proxy=
10.2.2.0/255.255.255.0/0/0
(type=4), src_proxy= 10.2.1.1/255.255.255.255/0/0
(type=1),
protocol= ESP, transform= esp-des esp-md5-hmac ,
lifedur= 0s and 0kb, spi= 0x0(0), conn_id= 0,
keysize= 0,
flags= 0x4
Apr 18 15:18:10: validate proposal request 0
Apr 18 15:18:10: ISAKMP (0:5): processing NONCE payload.
message ID = -1078114754
Apr 18 15:18:10: ISAKMP (0:5): processing ID payload.
message ID = -1078114754
Apr 18 15:18:10: ISAKMP (5): ID_IPV4_ADDR src 10.2.1.1
prot 0 port 0
Apr 18 15:18:10: ISAKMP (0:5): processing ID payload.
message ID = -1078114754
Apr 18 15:18:10: ISAKMP (5): ID_IPV4_ADDR_SUBNET dst
10.2.2.0/255.255.255.0 prot 0 port 0
Apr 18 15:18:10: IPSEC(key_engine): got a queue event...
Apr 18 15:18:10: IPSEC(spi_response): getting spi
224008976
```

```
for SA from 201.70.32.82 to 201.70.32.101
for prot 3
Apr 18 15:18:10: CryptoEngine0: generate hmac context
for conn id 5
Apr 18 15:18:10: ISAKMP (5): sending packet to
201.70.32.82
(R) QM_IDLE
Apr 18 15:18:10: ISAKMP (5): received packet from
201.70.32.82
(R) QM_IDLE
Apr 18 15:18:10: CryptoEngine0: generate hmac context
for conn id 5
Apr 18 15:18:10: ipsec allocate flow 0
Apr 18 15:18:10: ipsec allocate flow 0
Apr 18 15:18:10: ISAKMP (0:5): Creating IPsec SAs
Apr 18 15:18:10: inbound SA from 201.70.32.82
to 201.70.32.101 (proxy 10.2.1.1 to
10.2.2.0)
Apr 18 15:18:10: has spi 224008976 and conn_id
2000
and flags 4
Apr 18 15:18:10: outbound SA from 201.70.32.101
to 201.70.32.82 (proxy 10.2.2.0 to
10.2.1.1)
Apr 18 15:18:10: has spi -1084694986 and conn_id
2001
and flags 4
Apr 18 15:18:10: ISAKMP (0:5): deleting node -1078114754
Apr 18 15:18:10: IPSEC(key_engine): got a queue event...
Apr 18 15:18:10: IPSEC(initialize_sas): ,
(key eng. msg.) dest= 201.70.32.101, src=
201.70.32.82,
dest_proxy= 10.2.2.0/255.255.255.0/0/0 (type=4),
src_proxy= 10.2.1.1/0.0.0.0/0/0 (type=1),
protocol= ESP, transform= esp-des esp-md5-hmac ,
lifedur= 0s and 0kb,
spi= 0xD5A1B10(224008976), conn_id= 2000, keysize=
0,
flags= 0x4
Apr 18 15:18:10: IPSEC(initialize_sas): ,
(key eng. msg.) src= 201.70.32.101, dest=
201.70.32.82,
src_proxy= 10.2.2.0/255.255.255.0/0/0 (type=4),
dest_proxy= 10.2.1.1/0.0.0.0/0/0 (type=1),
protocol= ESP, transform= esp-des esp-md5-hmac ,
lifedur= 0s and 0kb,
spi= 0xBF58DE36(3210272310), conn_id= 2001, keysize=
0,
flags= 0x4
Apr 18 15:18:10: IPSEC(create_sa): sa created,
(sa) sa_dest= 201.70.32.101, sa_prot= 50,
sa_spi= 0xD5A1B10(224008976),
sa_trans= esp-des esp-md5-hmac , sa_conn_id= 2000
Apr 18 15:18:10: IPSEC(create_sa): sa created,
(sa) sa_dest= 201.70.32.82, sa_prot= 50,
sa_spi= 0xBF58DE36(3210272310),
sa_trans= esp-des esp-md5-hmac , sa_conn_id= 2001
Apr 18 15:18:10: ISAKMP: Locking struct 14D0DC for IPSEC
Apr 18 15:18:24: ISAKMP (0:5): retransmitting
phase 2 -617682048 ...
Apr 18 15:18:24: ISAKMP (5): sending packet to
201.70.32.82
(R) QM_IDLE
```



```

Router#show crypto ipsec Apr 18 15:18:39: ISAKMP (0:5):
retransmitting phase 2 -617682048 ... Apr 18 15:18:39:
ISAKMP (5): sending packet to 201.70.32.82 (R) QM_IDLE
sa interface: Ethernet0 Crypto map tag: intmap, local
addr. 201.70.32.101 local ident (addr/mask/prot/port):
(10.2.2.0/255.255.255.0/0/0) remote ident
(addr/mask/prot/port): (10.2.1.1/255.255.255.255/0/0)
current_peer: 201.70.32.82 PERMIT, flags={ } #pkts
encaps: 7, #pkts encrypt: 7, #pkts digest 7 #pkts
decaps: 7, #pkts decrypt: 7, #pkts verify 7 #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.: 201.70.32.101, remote crypto endpt.:
201.70.32.82 path mtu 1500, media mtu 1500 current
outbound spi: BF58DE36 inbound esp sas: spi:
0xD5A1B10(224008976) transform: esp-des esp-md5-hmac ,
in use settings ={Tunnel, } slot: 0, conn id: 2000,
flow_id: 1, crypto map: intmap sa timing: remaining key
lifetime (k/sec): (4607999/3500) IV size: 8 bytes replay
detection support: Y inbound ah sas: inbound pcp sas:
outbound esp sas: spi: 0xBF58DE36(3210272310) transform:
esp-des esp-md5-hmac , in use settings ={Tunnel, } slot:
0, conn id: 2001, flow_id: 2, crypto map: intmap sa
timing: remaining key lifetime (k/sec): (4607999/3500)
IV size: 8 bytes replay detection support: Y outbound ah
sas: outbound pcp sas: Router#sho crypto engine
connections active ID Interface IP-Address State
Algorithm Encrypt Decrypt 5 set HMAC_MD5+DES_56_CB 0 0
2000 Ethernet0 201.70.32.101 set HMAC_MD5+DES_56_CB 0 7
2001 Ethernet0 201.70.32.101 set HMAC_MD5+DES_56_CB 7 0
Crypto adjacency count : Lock: 0, Unlock: 0

```

Informação do cliente VPN

```

Client configuration:
C:\>ping -t 10.2.2.5
Reply from 10.2.2.5: bytes=32 time<0ms TTL=352

Reply from 10.2.2.5: bytes=32 time<10ms TTL=352

From Logview:
14:25:34.044 New Connection - Initiating IKE
    Phase 1 (IP ADDR=201.70.32.101)

14:25:34.144 New Connection - SENDING>>> ISAKMP
    OAK MM (SA)
14:25:35.886 New Connection - RECEIVED<<< ISAKMP
    OAK MM (SA)
14:25:36.067 New Connection - SENDING>>> ISAKMP
    OAK MM (KE, NON, VID, VID)
14:25:38.310 New Connection - RECEIVED<<< ISAKMP
    OAK MM (KE, NON, VID)
14:25:38.460 New Connection - SENDING>>> ISAKMP
    OAK MM *(ID, HASH, NOTIFY:STATUS_INITIAL_CONTACT)
14:25:38.610 New Connection - RECEIVED<<< ISAKMP
    OAK MM *(ID, HASH)
14:25:38.710 New Connection - Established IKE SA
14:25:38.811 New Connection - Initiating IKE Phase
    2 with Client IDs (message id
: B01876)
14:25:38.911 Initiator = IP ADDR=201.70.32.82,
    prot = 0 port = 0

14:25:39.011 Responder = IP

```

```
SUBNET/MASK=10.2.2.0/255.255.255.0,
  prot = 0 port = 0

14:25:39.111 New Connection - SENDING>>>>
  ISAKMP OAK QM *(HASH, SA, NON, ID, ID)
14:25:39.251 New Connection - RECEIVED<<< ISAKMP
  OAK TRANS *(HASH, ATTR)
14:25:39.351 New Connection - Received Private IP
  Address = IP ADDR=10.2.1.1

14:25:39.451 New Connection - Discarding IPSec SA
  negotiation (message id: B01876)
14:25:39.552 New Connection - SENDING>>>> ISAKMP OAK
  TRANS *(HASH, ATTR)
14:25:40.022 New Connection - Received message for
  discarded
  IPSec SA negotiation (message id: B01876)
14:25:40.122 New Connection - Initiating IKE Phase 2
  with
  Client IDs (message id: C8CB0CE)
14:25:40.223 Initiator = IP ADDR=10.2.1.1, prot = 0
  port = 0
14:25:40.323 Responder = IP
SUBNET/MASK=10.2.2.0/255.255.255.0,
  prot = 0 port = 0
14:25:40.423 New Connection - SENDING>>>> ISAKMP OAK
  QM *(HASH, SA, NON, ID, ID)
14:25:40.873 New Connection - RECEIVED<<< ISAKMP OAK
  QM *(HASH, SA, NON, ID, ID,
  NOTIFY:STATUS_RESP_LIFETIME)
14:25:40.974 New Connection - SENDING>>>> ISAKMP OAK
  QM *(HASH)
14:25:41.074 New Connection - Loading IPSec SA
  (Message ID = C8CB0CE OUTBOUND SPI = 19A22423
  INBOUND SPI = E4829433)
14:25:41.174
```

[Informações Relacionadas](#)

- [Configurando a segurança da rede IPSec](#)
- [Configurando o protocolo de segurança do intercâmbio chave de Internet](#)
- [Introdução ao IPSec](#)
- [Páginas de Suporte do Produto IPSec \(Protocolo de Segurança IP\)](#)
- [Suporte Técnico - Cisco Systems](#)