

Configuration du routeur en client VPN, avec configuration de mode et clé générique pré-partagée avec NAT

Contenu

[Introduction](#)

[Conditions préalables](#)

[Conditions requises](#)

[Composants utilisés](#)

[Conventions](#)

[Configurez](#)

[Diagramme du réseau](#)

[Configurations](#)

[Vérifiez](#)

[Dépannez](#)

[Dépannage des commandes](#)

[Exemple de sortie de débogage](#)

[Informations connexes](#)

Introduction

Cette configuration d'échantillon illustre un routeur configuré pour la configuration de mode (l'utilisateur obtient une adresse IP du groupe), les clés pré-partagées de caractère générique (tous les clients PC partagent une clé commune) et la traduction d'adresses réseau (NAT). Dans cette configuration, un utilisateur hors site peut entrer dans le réseau et avoir une adresse IP interne attribuée depuis le groupe. Les utilisateurs pensent qu'ils sont à l'intérieur du réseau. Puisque l'adressage privé, par conséquent la traduction NAT, est impliquée, il faut dire au routeur ce qu'il faut traduire et ne pas traduire.

Conditions préalables

Conditions requises

Aucune spécification déterminée n'est requise pour ce document.

Composants utilisés

Les informations contenues dans ce document sont basées sur les versions de matériel et de logiciel suivantes :

- Version de logiciel 12.0.7T ou ultérieures de Cisco IOS®
- Matériel qui prend en charge cette révision de logiciel
- Client vpn 1.0/10A ou 1.1 de CiscoSecure (affiché comme 2.0.7/E ou 2.1.12, respectivement, allez **aider** > **environ** pour vérifier)

Les informations contenues dans ce document ont été créées à partir des périphériques d'un environnement de laboratoire spécifique. Tous les périphériques utilisés dans ce document ont démarré avec une configuration effacée (par défaut). Si votre réseau est opérationnel, assurez-vous que vous comprenez l'effet potentiel de toute commande.

Conventions

Pour plus d'informations sur les conventions de documents, reportez-vous à [Conventions relatives aux conseils techniques Cisco](#).

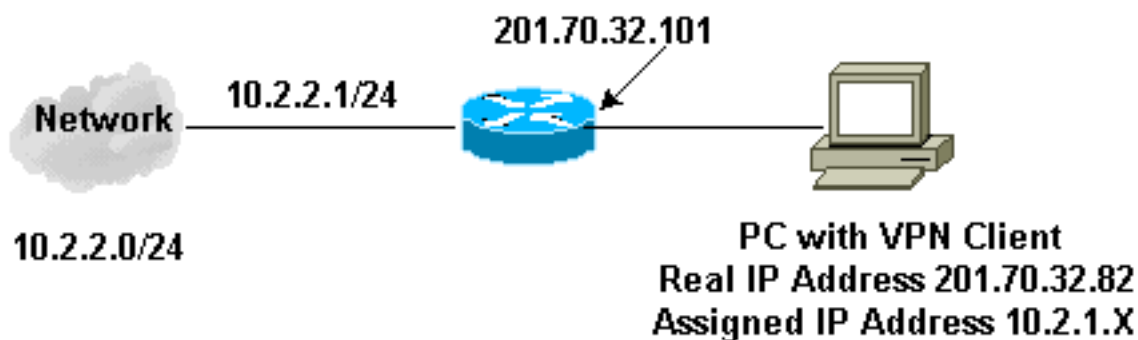
Configurez

Cette section vous fournit des informations pour configurer les fonctionnalités décrites dans ce document.

Remarque: Pour obtenir des informations supplémentaires sur les commandes utilisées dans ce document, utilisez l'[Outil de recherche de commande](#) ([clients enregistrés](#) seulement).

Diagramme du réseau

Ce document utilise la configuration réseau indiquée dans le diagramme suivant.



Configurations

Ce document utilise les configurations suivantes.

- [Client VPN](#)
- [Routeur](#)

Configuration du client VPN

```

Network Security policy:
.
1- Myconn
   My Identity = ip_address
   Connection security: Secure

```

Remote Party Identity and addressing

ID Type: IP subnet

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

Configuration du routeur

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
```

Vérifiez

Cette section présente des informations que vous pouvez utiliser pour vous assurer que votre configuration fonctionne correctement.

Certaines commandes **show** sont prises en charge par l'[Output Interpreter Tool](#) ([clients enregistrés](#) uniquement), qui vous permet de voir une analyse de la sortie de la commande show.

- **active de connexions de show crypto engine** — Affiche les paquets chiffrés et déchiffrés.
- **show crypto ipsec sa** - Montre les associations de sécurisation de phase 2.
- **show crypto isakmp sa** - Montre les associations de sécurisation de phase 1.

Dépannez

Cette section fournit des informations que vous pouvez utiliser pour dépanner votre configuration.

Dépannage des commandes

Remarque: Avant d'émettre des commandes de **débogage**, référez-vous aux [informations importantes sur des commandes de debug](#).

Ceux-ci met au point doivent s'exécuter sur les deux Routeurs d'IPSec (pairs). L'autorisation des associations de sécurité doit être faite sur les deux pairs.

- **debug crypto ipsec** — Affiche les négociations IPsec de la phase 2.
- **debug crypto isakmp** — affiche les négociations ISAKMP de la phase 1.
- **debug crypto engine** — Affiche le trafic qui est chiffré.
- **clear crypto isakmp** — Autorise les associations de sécurité liées à la phase 1.
- **clear crypto sa** — Autorise les associations de sécurité liées à la phase 2.

Exemple de sortie de débogage

```
Debbugs de routeur
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

```

Les informations de client 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
```

[Informations connexes](#)

- [Sécurité des réseaux de configuration d'IPsec](#)
- [Configurer le protocole de sécurité IKE](#)
- [Introduction à IPsec](#)
- [Pages de support produit de sécurité IP \(IPsec\)](#)
- [Support technique - Cisco Systems](#)