

# Configurando o IPsec entre um roteador do Cisco IOS e um Cisco VPN Client 4.x para Windows usando o RAIO para a autenticação de usuário

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## [Introdução](#)

Este documento demonstra como configurar uma conexão entre um roteador e o Cisco VPN Client 4.x que usa o Remote Authentication Dial-In User Service (RADIUS) para a autenticação de usuário. Os Software Release 12.2(8)T e Mais Recente de Cisco IOS® apoiam conexões do Cisco VPN Client 4.x. Os VPN Clients 3.x e 4.x usam as políticas de Diffie Hellman (DH) group 2. O comando `isakmp policy # group 2` permite que os VPN Clients se conectem.

Este documento mostra a autenticação no servidor Radius, e a autorização (tal como a atribuição do Windows Internet Naming Service (VITÓRIAS) e do Domain Naming Service (o DNS)) localmente pelo roteador. Se você está interessado em fazer a authentication e autorização através do servidor Radius, refira [configurar o IPsec entre um roteador do Cisco IOS e um Cisco VPN Client 4.x para Windows usando o RAIO](#).

**Nota:** Explicar do IPSec VPN está agora disponível. Refira o [IPSec VPN que esclarece](#) mais

configurações da informação e de amostra.

Refira o [túnel de IPsec entre o IOS Router e o Cisco VPN Client 4.x para Windows com exemplo de configuração da autenticação de usuário TACACS+](#) para obter mais informações sobre da encenação onde a autenticação de usuário ocorre externamente com protocolo TACACS+.

Refira [configurar o Cisco VPN Client 3.x para Windows aos IO usando a autenticação estendida local](#) para obter mais informações sobre da encenação onde a autenticação de usuário ocorre localmente no roteador do Cisco IOS.

Refira [PIX/ASA 7.x e Cisco VPN Client 4.x para Windows com exemplo de configuração da autenticação RADIUS de Microsoft Windows 2003 IAS](#) para obter informações sobre de como estabelecer a conexão VPN de acesso remoto entre um Cisco VPN Client (4.x para Windows) e a ferramenta de segurança 7.x da série PIX 500 usando um servidor Radius do Internet Authentication Service de Microsoft Windows 2003 (IAS).

Refira o [IPsec - PIX ao Wild-card do cliente VPN, ao Pre-shared, à configuração de modo com autenticação estendida](#) para obter informações sobre de como conectar um cliente VPN a um PIX Firewall usando convites, ao config de modo, ao **comando sysopt connection permit-ipsec**, e à autenticação estendida (XAUTH).

Refira o [IPsec entre um VPN 3000 concentrator e um cliente VPN 4.x para Windows usando o RAIO para o exemplo de configuração da autenticação de usuário e explicar](#) para obter informações sobre de como estabelecer um túnel de IPsec entre um Cisco VPN 3000 Concentrator e um Cisco VPN Client 4.x para Windows usando o RAIO para a autenticação de usuário e explicar.

## Pré-requisitos

### Requisitos

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

- Um conjunto de endereços a ser atribuído ao IPSec.
- Um grupo chamado "3000clients" com uma senha de "cisco123"
- Autenticação de usuário em um servidor Radius

### Componentes Utilizados

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

- Um 2621XM Router que execute o Cisco IOS Software Release 12.2(15)T2
- CiscoSecure ACS para a versão 4.2 do Windows 2000 (todo o servidor Radius deve trabalhar)
- Cisco VPN Client para a versão do Windows 4.8 (todo o cliente VPN 4.x e mais tarde deve trabalhar)

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.

Isto output do comando **show version** no roteador:

```
vpn2621#show version Cisco Internetwork Operating System Software IOS (tm) C2600 Software
(C2600-IK9S-M), Version 12.2(15)T2, RELEASE SOFTWARE (fc2) TAC Support: http://www.cisco.com/tac
Copyright (c) 1986-2003 by cisco Systems, Inc. Compiled Thu 01-May-03 10:39 by nmasa Image text-
base: 0x80008098, data-base: 0x81BBB0BC ROM: System Bootstrap, Version 12.2(7r) [cmong 7r],
RELEASE SOFTWARE (fc1) vpn2621 uptime is 1 hour, 34 minutes System returned to ROM by reload
System image file is "flash:c2600-ik9s-mz.122-15.T2.bin" This product contains cryptographic
features and is subject to United States and local country laws governing import, export,
transfer and use. Delivery of Cisco cryptographic products does not imply third-party authority
to import, export, distribute or use encryption. Importers, exporters, distributors and users
are responsible for compliance with U.S. and local country laws. By using this product you agree
to comply with applicable laws and regulations. If you are unable to comply with U.S. and local
laws, return this product immediately. A summary of U.S. laws governing Cisco cryptographic
products may be found at: http://www.cisco.com/wwl/export/crypto/tool/stqrg.html If you require
further assistance please contact us by sending email to export@cisco.com. cisco 2621XM
(MPC860P) processor (revision 0x100) with 125952K/5120K bytes of memory. Processor board ID
JAD064503FK (64188517) M860 processor: part number 5, mask 2 Bridging software. X.25 software,
Version 3.0.0. 2 FastEthernet/IEEE 802.3 interface(s) 2 Serial(sync/async) network interface(s)
1 terminal line(s) 1 Virtual Private Network (VPN) Module(s) 1 cisco content engine(s) 32K bytes
of non-volatile configuration memory. 32768K bytes of processor board System flash (Read/Write)
Configuration register is 0x2102
```

## [Convenções](#)

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

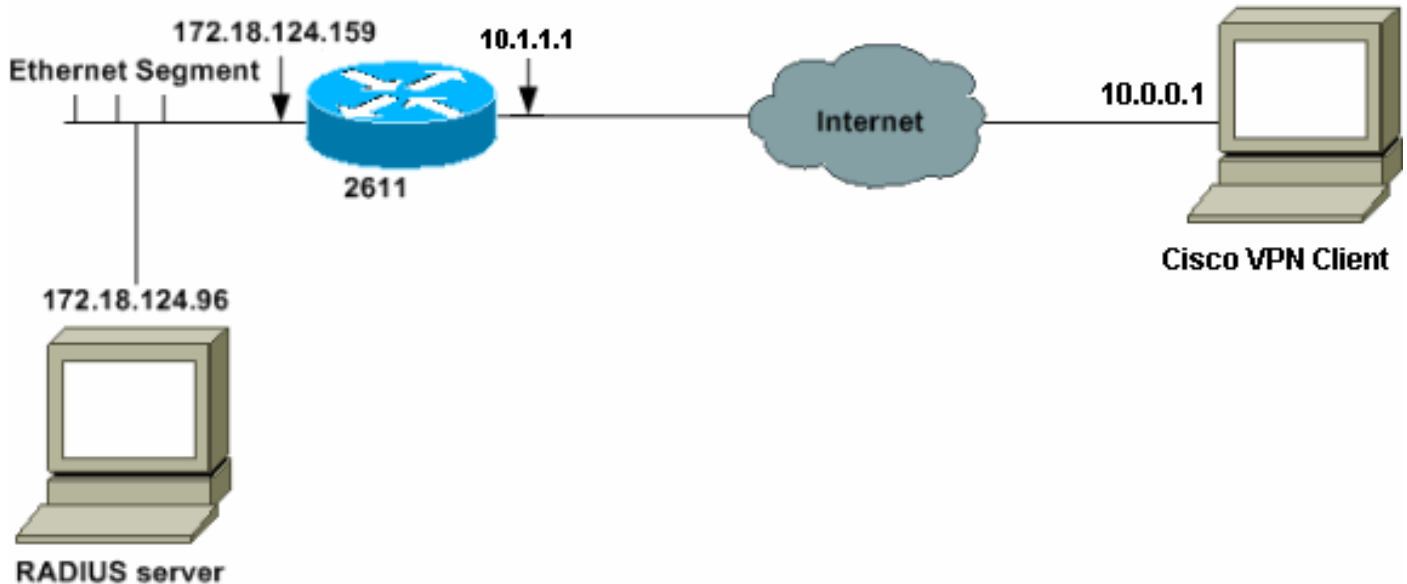
## [Configurar](#)

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

**Nota:** Use a ferramenta [Command Lookup Tool](#) ([apenas para clientes registrados](#)) para obter mais informações sobre os comandos usados neste documento.

## [Diagrama de Rede](#)

Este documento utiliza a seguinte configuração de rede:



## [Configurar o 2621XM Router](#)

### 2621XM Router

```

!--- Enable authentication, authorization and accounting
(AAA) !--- for user authentication and group
authorization. aaa new-model ! !--- In order to enable
extended authentication (Xauth) for user authentication,
!--- enable the aaa authentication commands. !--- "Group
radius local" specifies RADIUS user authentication !---
to be used by default and to use local database if
RADIUS server is not reachable. aaa authentication login
userauthen group radius local !--- In order to enable
group authorization, !--- enable the aaa authorization
commands. aaa authorization network groupauthor local !-
-- Create an Internet Security Association and !--- Key
Management Protocol (ISAKMP) policy for Phase 1
negotiations. crypto isakmp policy 3 encr 3des
authentication pre-share group 2 ! !--- Create a group
that will be used to specify the !--- Windows Internet
Naming Service (WINS) and Domain Naming Service (DNS)
server !--- addresses to the client, along with the pre-
shared key for authentication. crypto isakmp client
configuration group 3000client key cisco123 dns
10.1.1.10 wins 10.1.1.20 domain cisco.com pool ippool !
!--- Create the Phase 2 policy for actual data
encryption. crypto ipsec transform-set myset esp-3des
esp-sha-hmac ! !--- Create a dynamic map and !--- apply
the transform set that was created. crypto dynamic-map
dynmap 10 set transform-set myset ! !--- Create the
actual crypto map, !--- and apply the AAA lists that
were created earlier. crypto map clientmap client
authentication list userauthen crypto map clientmap
isakmp authorization list groupauthor crypto map
clientmap client configuration address respond crypto
map clientmap 10 ipsec-isakmp dynamic dynmap !--- Apply
the crypto map on the outside interface. interface
Ethernet0/0 ip address 10.1.1.1 255.255.255.0 half-
duplex crypto map clientmap interface Ethernet0/1 ip
address 172.18.124.159 255.255.255.0 half-duplex ! !---

```

```

Create a pool of addresses to be assigned to the VPN
Clients. ip local pool ippool 10.16.20.1 10.16.20.200 ip
classless ip route 0.0.0.0 0.0.0.0 10.1.1.2 ip http
server ip pim bidir-enable ! ! ! !--- Specify the IP
address of the RADIUS server, !--- along with the RADIUS
shared secret key. radius-server host 172.18.124.96
auth-port 1645 acct-port 1646 key cisco123 radius-server
retransmit 3

```

## Configuração de servidor RADIUS

### Configurar o servidor Radius para a autenticação de usuário

Termine estas etapas a fim configurar o servidor Radius:

1. Adicionar uma entrada para o roteador na base de dados do servidor radius.

The screenshot shows the 'AAA Clients' configuration page in Cisco ICM NT. On the left is a navigation menu with options like User Setup, Group Setup, Shared Profile Components, Network Configuration, System Configuration, Interface Configuration, Administration Control, External User Databases, Reports and Activity, and Online Documentation. The main area displays a table of AAA Clients:

AAA Client Hostname	AAA Client IP Address	Authenticate Using
<a href="#">340</a>	172.18.124.151	RADIUS (Cisco Aironet)
<a href="#">Aironet-340-Lab</a>	14.36.1.99	RADIUS (Cisco Aironet)
<a href="#">glennstest</a>	172.18.124.120	RADIUS (Cisco IOS/PIX)
<a href="#">router</a>	172.18.124.150	TACACS+ (Cisco IOS)

Below the table is an 'Add Entry' button. To the right of the table is a list of links for further configuration steps:

- [Network Device Groups](#)
- [Adding a Network Device Group](#)
- [Renaming a Network Device Group](#)
- [Deleting a Network Device Group](#)
- [AAA Clients](#)
- [Adding a AAA Client](#)
- [Editing a AAA Client](#)
- [Deleting a AAA Client](#)
- [AAA Servers](#)
- [Adding a AAA Server](#)
- [Editing a AAA Server](#)
- [Deleting a AAA Server](#)
- [Proxy Distribution Table](#)
- [Adding a Proxy Distribution Table Entry](#)
- [Sorting Proxy Distribution Table Entries](#)

2. Especifique o endereço IP de Um ou Mais Servidores Cisco ICM NT do roteador "172.18.124.159", junto com a chave secreta compartilhada "cisco123". Escolha o **RAIO** na autenticação usando a caixa suspensa.

The screenshot shows the 'Add AAA Client' configuration page in Cisco ICM NT. On the left is the same navigation menu as in the previous screenshot. The main area displays a form for adding a new AAA client:

**Add AAA Client**

AAA Client Hostname:

AAA Client IP Address:

Key:

Authenticate Using:

Single Connect TACACS+ AAA Client (Record stop in accounting on failure).

Log Update/Watchdog Packets from this AAA Client

Log RADIUS Tunneling Packets from this AAA Client

Buttons:

To the right of the form is a list of links for further configuration steps:

- [AAA Client Hostname](#)
- [AAA Client IP Address](#)
- [Key](#)
- [Network Device Group](#)
- [Authenticate Using](#)
- [Single Connect TACACS+ AAA Client](#)
- [Log Update/Watchdog Packets from this AAA Client](#)
- [Log RADIUS Tunneling Packets from this AAA Client](#)

Below the links is a section for 'AAA Client Hostname' with a description: 'The AAA Client Hostname is the name assigned to the AAA client.' and a '[Back to Top]' link. Below that is the label 'AAA Client IP Address'.

3. Adicionar o username para o usuário VPN na base de dados ciscosecure. No exemplo, o username é Cisco.

User:

List users beginning with letter/number:

A B C D E F G H I J K L M  
 N O P Q R S T U V W X Y Z  
 0 1 2 3 4 5 6 7 8 9

- [User Setup and External User Databases](#)
- [Finding a Specific User in the CiscoSecure User Database](#)
- [Adding a User to the CiscoSecure User Database](#)
- [Listing Usernames that Begin with a Particular Character](#)
- [Listing All Usernames in the CiscoSecure User Database](#)
- [Changing a Username in the CiscoSecure User Database](#)

User Setup enables you to configure individual user information, add users, and delete users in the database.

4. Na próxima janela, especifique a senha para o usuário Cisco. Neste exemplo, a senha é igualmente Cisco. Você pode traçar a conta de usuário a um grupo. Uma vez que você terminou, o clique **submete-se**.

**Supplementary User Info**

Real Name:

Description:

---

**User Setup**

Password Authentication:

CiscoSecure PAP (Also used for CHAP/MS-CHAP/ARAP, if the Separate field is not checked.)

Password:

Confirm Password:

Separate (CHAP/MS-CHAP/ARAP)

Password:

Confirm Password:

When using a Token Card server for authentication, supplying a separate CHAP password for a token card user allows CHAP authentication. This is especially useful when token caching is enabled.

Group to which the user is assigned:

- [Account Disabled](#)
- [Deleting a Username](#)
- [Supplementary User Info](#)
- [Password Authentication](#)
- [Group to which the user is assigned](#)
- [Callback](#)
- [Client IP Address Assignment](#)
- [Advanced Settings](#)
- [Network Access Restrictions](#)
- [Max Sessions](#)
- [Usage Quotas](#)
- [Account Disable](#)
- [Downloadable ACLs](#)
- [Advanced TACACS+ Settings](#)
- [TACACS+ Enable Control](#)
- [TACACS+ Enable Password](#)
- [TACACS+ Outbound Password](#)
- [TACACS+ Shell Command Authorization](#)
- [TACACS+ Unknown Services](#)
- [IETF RADIUS Attributes](#)
- [RADIUS Vendor-Specific Attributes](#)

**Account Disabled Status**

Select the Account Disabled check box to disable this account; clear the check box to enable the account.

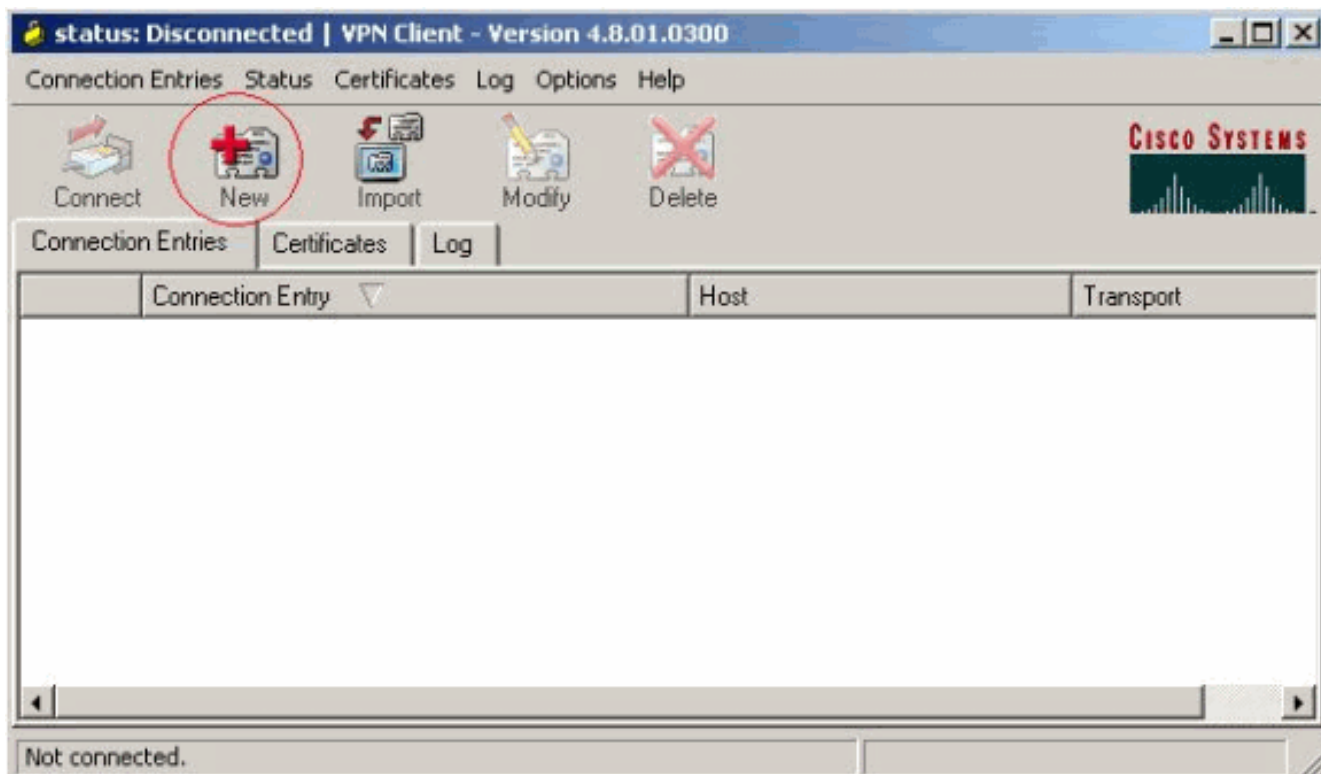
[\[Back to Top\]](#)

## Configuração do cliente VPN 4.8

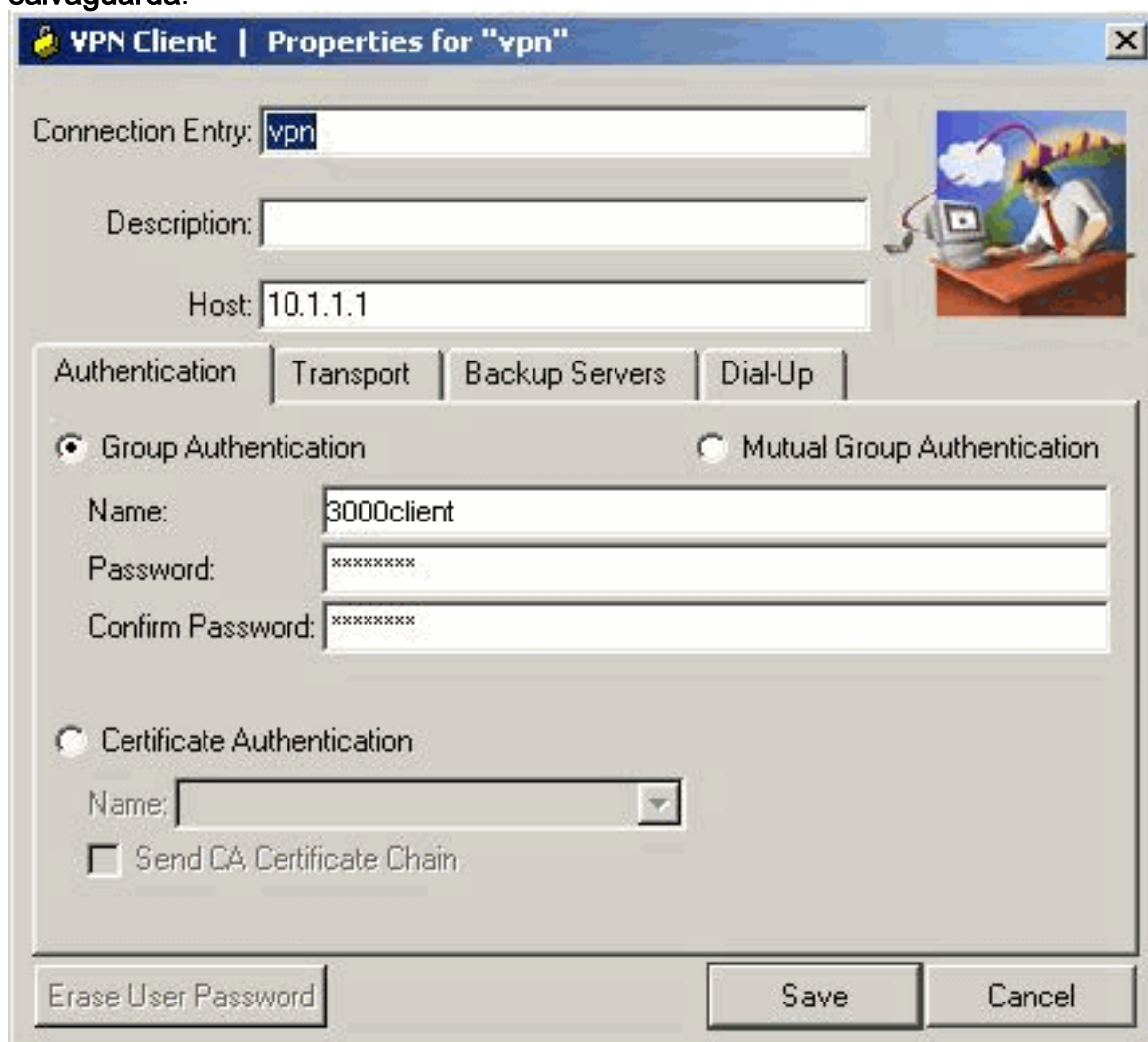
Termine estas etapas a fim configurar o cliente VPN 4.8:

1. Escolha o **Iniciar > Programas > Cliente de VPN de Sistemas Cisco > o cliente VPN**.
2. Clique **novo** para lançar a janela de entrada nova da conexão de VPN da criação.



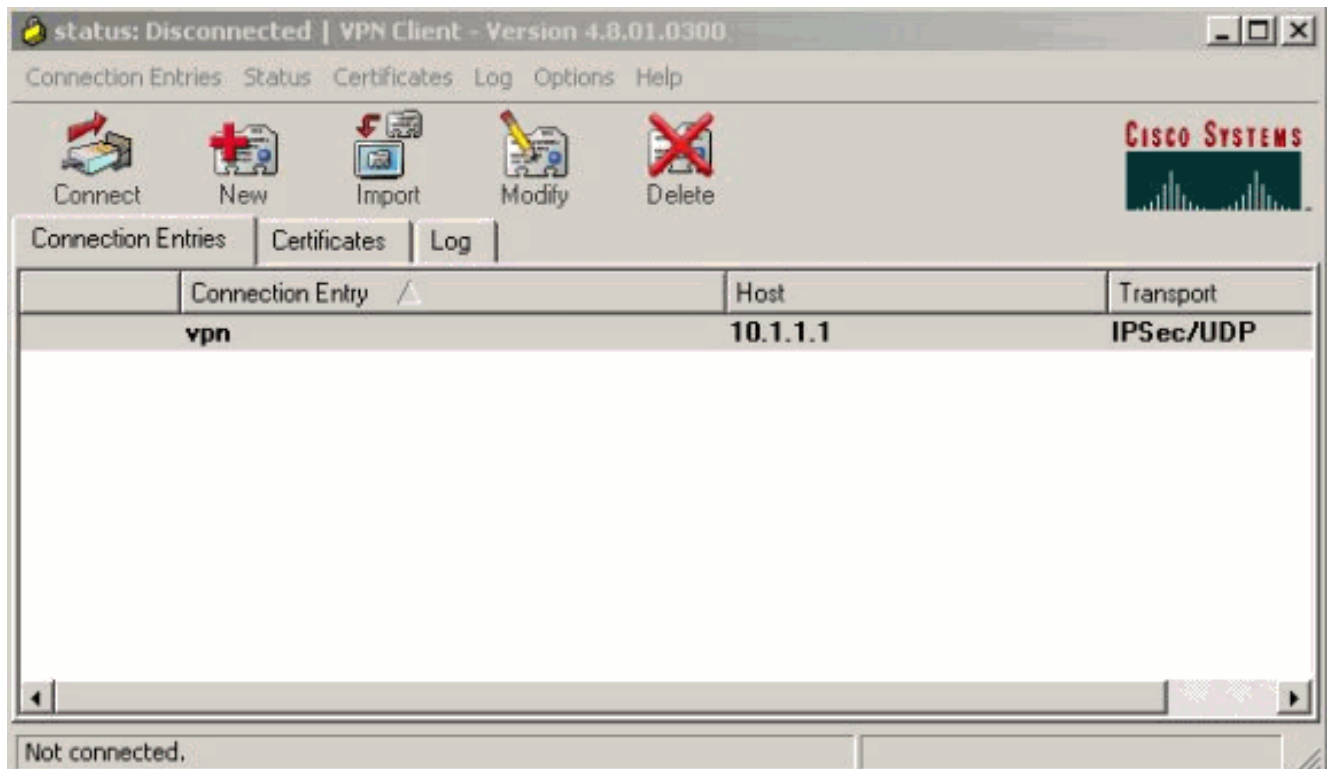


3. Dê entrada com o nome da entrada de conexão junto com uma descrição. Incorpore o endereço IP externo do roteador à caixa do host. Então incorpore o nome do grupo VPN e a senha e clique a **salv guarda**.

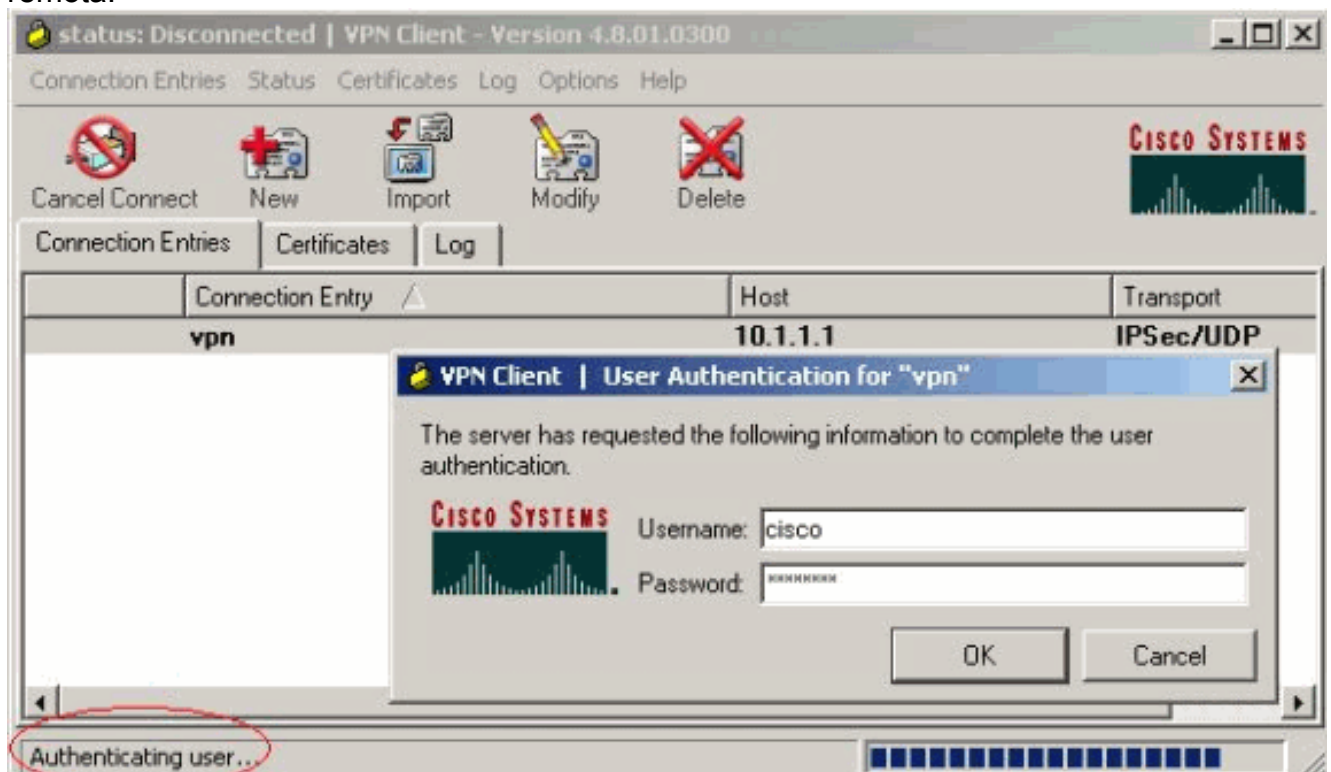


4. Clique sobre a conexão que você gostaria de se usar e o clique **conecta da** janela principal

do cliente  
VPN.

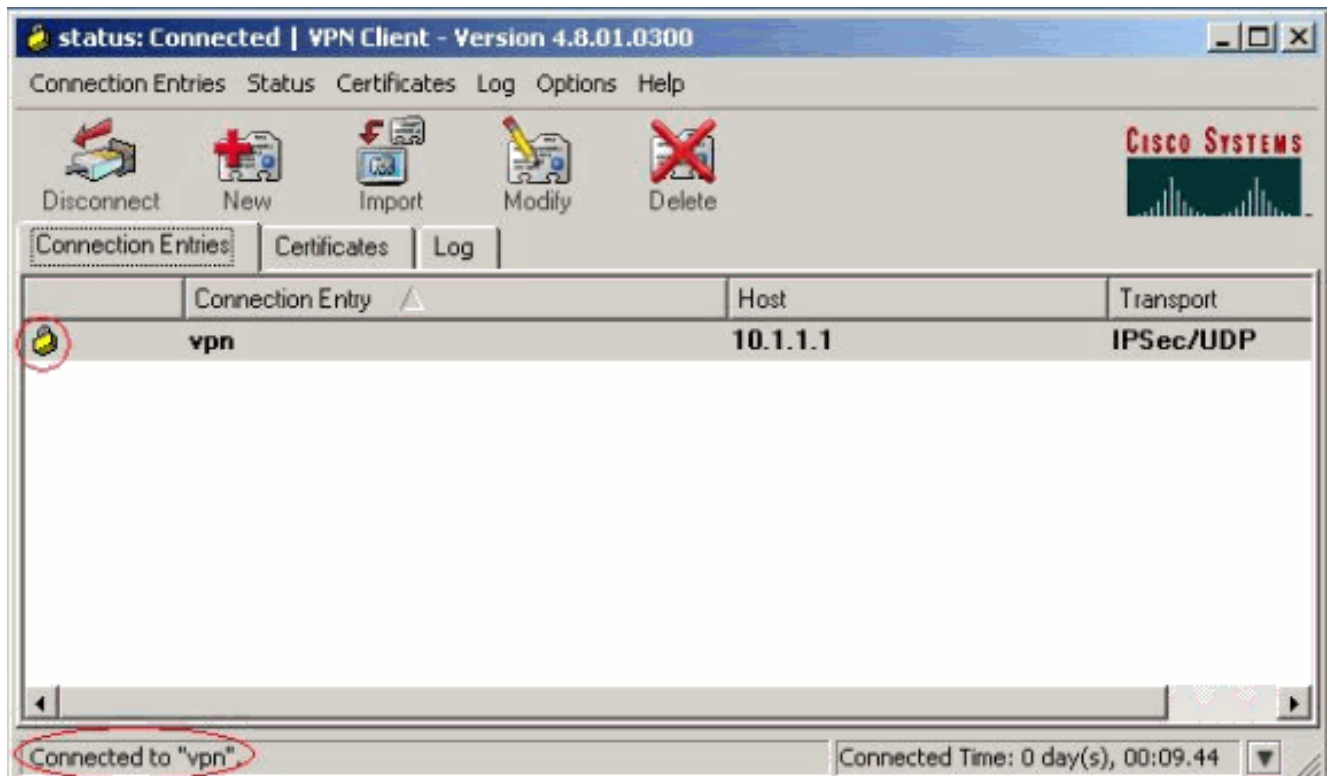


5. Quando alertado, incorpore a informação do nome de usuário e senha para o Xauth e clique a **APROVAÇÃO** para conectar à rede remota.



O cliente VPN obtém conectado com o roteador na instalação central.





## Habilitando a divisão de túnel

A fim permitir o Split Tunneling para as conexões de VPN, certifique-se de que você tem um Access Control List (ACL) configurado no roteador. Neste exemplo, o comando **access-list 108** é associado com o grupo para propósitos de split-tunneling, e o túnel é formado à rede 14.38.X.X /16. Fluxos de tráfego unencrypted aos dispositivos não em ACL 108 (por exemplo, o Internet).

```
access-list 108 permit ip 172.18.124.0 0.0.255.255 10.16.20.0 0.0.0.255
```

Aplice o ACL em propriedades do grupo.

```
crypto isakmp client configuration group 3000client  
key cisco123  
dns 10.1.1.10 wins 10.1.1.20 domain cisco.com pool ippool acl 108
```

## Configurar a característica da reserva do servidor Radius

Quando o servidor Radius preliminar se torna não disponível, o roteador Failover ao servidor Radius alternativo ativo seguinte. O roteador continuará a usar para sempre o servidor radius secundário, mesmo se o servidor primário está disponível. Geralmente o servidor primário é alto desempenho e o servidor preferido. Se o servidor secundário não está disponível, o base de dados local pode ser usado para a autenticação que usa a [autenticação de login aaa userauthen](#) [o comando local do raio de grupo](#).

## 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.

Isto output dos **comandos show** relevantes:

```

vpn2621#show crypto isakmp sa dst src state conn-id slot 10.1.1.1 10.0.0.1 QM_IDLE 3 0
vpn2621#show crypto ipsec sa interface: Ethernet0/0 Crypto map tag: clientmap, local addr.
10.1.1.1 local ident (addr/mask/prot/port): (10.1.1.1/255.255.255.255/0/0) remote ident
(addr/mask/prot/port): (10.16.20.2/255.255.255.255/0/0) current_peer: 10.0.0.1 PERMIT, flags={
#pkts encaps: 5, #pkts encrypt: 5, #pkts digest 5 #pkts decaps: 5, #pkts decrypt: 5, #pkts
verify 5 #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.:
10.1.1.1, remote crypto endpt.: 10.0.0.1 path mtu 1500, media mtu 1500 current outbound spi:
77AFCCFA inbound esp sas: spi: 0xC7AC22AB(3349947051) transform: esp-3des esp-sha-hmac , in use
settings = {Tunnel, } slot: 0, conn id: 2000, flow_id: 1, crypto map: clientmap sa timing:
remaining key lifetime (k/sec): (4608000/3444) IV size: 8 bytes replay detection support: Y
inbound ah sas: inbound pcp sas: outbound esp sas: spi: 0x77AFCCFA(2008009978) transform: esp-
3des esp-sha-hmac , in use settings = {Tunnel, } slot: 0, conn id: 2001, flow_id: 2, crypto map:
clientmap sa timing: remaining key lifetime (k/sec): (4608000/3444) IV size: 8 bytes replay
detection support: Y outbound ah sas: outbound pcp sas: local ident (addr/mask/prot/port):
(172.18.124.0/255.255.255.0/0/0) remote ident (addr/mask/prot/port):
(10.16.20.2/255.255.255.255/0/0) current_peer: 10.0.0.1 PERMIT, flags={ #pkts encaps: 4, #pkts
encrypt: 4, #pkts digest 4 #pkts decaps: 6, #pkts decrypt: 6, #pkts verify 6 #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.: 10.1.1.1, remote crypto endpt.:
10.0.0.1 path mtu 1500, media mtu 1500 current outbound spi: 2EE5BF09 inbound esp sas: spi:
0x3565451F(895829279) transform: esp-3des esp-sha-hmac , in use settings = {Tunnel, } slot: 0,
conn id: 2002, flow_id: 3, crypto map: clientmap sa timing: remaining key lifetime (k/sec):
(4607999/3469) IV size: 8 bytes replay detection support: Y inbound ah sas: inbound pcp sas:
outbound esp sas: spi: 0x2EE5BF09(786808585) transform: esp-3des esp-sha-hmac , in use settings
={Tunnel, } slot: 0, conn id: 2003, flow_id: 4, crypto map: clientmap sa timing: remaining key
lifetime (k/sec): (4607999/3469) IV size: 8 bytes replay detection support: Y outbound ah sas:
outbound pcp sas:
vpn2621#show crypto engine connections active
ID Interface IP-Address State
Algorithm Encrypt Decrypt 3 Ethernet0/0 10.1.1.1 set HMAC_SHA+3DES_56_C 0 0 2000 Ethernet0/0
10.1.1.1 set HMAC_SHA+3DES_56_C 0 5 2001 Ethernet0/0 10.1.1.1 set HMAC_SHA+3DES_56_C 5 0 2002
Ethernet0/0 10.1.1.1 set HMAC_SHA+3DES_56_C 0 6 2003 Ethernet0/0 10.1.1.1 set HMAC_SHA+3DES_56_C
4 0
vpn2621#show crypto engine accelerator statistic
Virtual Private Network (VPN) Module in aim
slot : 0 Statistics for Hardware VPN Module since the last clear of counters 5570 seconds ago
14 packets in 14 packets out 0 packet overruns 0 output packets dropped 0 packets decompressed 0
packets compressed 0 compressed bytes in 0 uncompressed bytes in 0 decompressed bytes out 0
compressed bytes out 0 packets bypass compression 0 packets abort compression 0 packets fail
decompression 0 packets fail compression 7 packets decrypted 7 packets encrypted 532 bytes
decrypted 532 bytes encrypted 784 bytes before decrypt 19200 bytes after encrypt 0 paks/sec in 0
paks/sec out 0 Kbits/sec decrypted 0 Kbits/sec encrypted Last 5 minutes: 14 packets in 14
packets out 7 packets decrypted 7 packets encrypted 532 bytes decrypted 420 bytes encrypted 784
bytes before decrypt 672 bytes after encrypt 0 paks/sec in 0 paks/sec out 0 Kbits/sec decrypted
0 Kbits/sec encrypted rx_no_endp: 0 rx_hi_discards: 0 fw_failure: 0 invalid_sa: 0 invalid_flow:
0 cgx_errors 0 fw_qs_filled: 0 fw_resource_lock: 0 lotx_full_err: 0 null_ip_error: 0
pad_size_error: 0 out_bound_dh_acc: 0 esp_auth_fail: 0 ah_auth_failure: 0 crypto_pad_error: 0
ah_prot_absent: 0 ah_seq_failure: 0 ah_spi_failure: 0 esp_prot_absent: 0 esp_seq_fail: 0
esp_spi_failure: 0 obound_sa_acc: 0 invalid_sa: 0 out_bound_sa_flow: 0 invalid_dh: 0
bad_keygroup: 0 out_of_memory: 0 no_sh_secret: 0 no_skeys: 0 invalid_cmd: 0 dsp_coproc_err: 0
comp_unsupported: 0 pak_too_big: 0 null_packets: 0 pak_mp_length_spec_fault: 0 cmd_queue_errors:
0 tx_lo_queue_size_max 0 cmd_unimplemented: 0 Interrupts: 439 Immed: 0 HiPri ints: 14 LoPri
ints: 425 POST Errs: 0 Alerts: 0 Unk Cmds: 0 UnexpCmds: 0 cgx_cmd_pending:0 packet_loop_max:
0packet_loop_limit: 0
vpn2621#sh crypto engine configuration
crypto engine name: Virtual Private
Network (VPN) Module crypto engine type: hardware Product Name: AIM-VPN/BP Configuration:
0x000109010F00F00784000000 : 0x995FB1441BA279D5BD46CF6C : 0xECE77614C30835CB0A000300 :
0x00000000000000000000000000000000 CryptIC Version: 001.000 CGX Version: 001.009 CGX Reserved: 0x000F
PCDB info: 0x07F0 0x0084 0x0000 Serial Number: 0x5F9944B1A21BD57946BD : 0x6CCFE7EC14768C3CB35
DSP firmware version: 000.010 DSP Bootstrap Version: 000.003 DSP Bootstrap Info: 0x0000
Compression: Yes DES: Yes 3 DES: Yes AES CBC: No AES CNTR: No Maximum buffer length: 4096
Maximum DH index: 0210 Maximum SA index: 0420 Maximum Flow index: 0840 Maximum RSA key size:
0000 crypto engine in slot: 0 platform: VPN hardware accelerator Crypto Adjacency Counts: Lock
Count: 0 Unlock Count: 0 crypto lib version: 16.0.0 ipsec lib version: 2.0.0

```

## [Troubleshooting](#)

Use esta seção para resolver problemas de configuração.

## [Comandos para Troubleshooting](#)

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.

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

- **debug crypto ipsec** — Exibe informações de depuração sobre conexões de IPsec.
- **isakmp do debug crypto** — Os indicadores debugam a informação sobre conexões IPsec, e mostram o primeiro grupo de atributos que é negado devido às incompatibilidades no ambas as extremidades.
- **debug crypto engine** — Exibe informações a partir do cripto mecanismo.
- **debugar a autenticação aaa** — Indica a informação na autenticação do protocolo tacacs+ AAA/(TACACS+).
- **debug aaa authorization radius** — Indica a informação na autorização AAA/TACACS+.
- **debugar o raio** — Informação dos indicadores em uma comunicação do Troubleshooting entre o servidor Radius e o roteador.

## [Saída de depurações](#)

Esta seção fornece informações de depuração do roteador, que podem ser usadas para resolver problemas na configuração.

## [Registros de Roteador](#)

```
vpn2621#show debug General OS: AAA Authentication debugging is on AAA Authorization debugging is on Radius protocol debugging is on Radius packet protocol debugging is on Cryptographic Subsystem: Crypto ISAKMP debugging is on Crypto Engine debugging is on Crypto IPSEC debugging is on vpn2621# *ISAKMP (0:0): received packet from 10.0.0.1 dport 500 sport 500 Global (N) NEW SA *ISAKMP: Created a peer struct for 10.0.0.1, peer port 500 *ISAKMP: Locking peer struct 0x83166B20, IKE refcount 1 for crypto_ikmp_config_initialize_sa *ISAKMP (0:0): Setting client config settings 82F0F82C *ISAKMP (0:0): (Re)Setting client xauth list and state *ISAKMP: local port 500, remote port 500 *ISAKMP: insert sa successfully sa = 83165694 *ISAKMP (0:1): processing SA payload. message ID = 0 *ISAKMP (0:1): processing ID payload. message ID = 0 *ISAKMP (0:1): peer matches *none* of the profiles *ISAKMP (0:1): processing vendor id payload *ISAKMP (0:1): vendor ID seems Unity/DPD but major 215 mismatch *ISAKMP (0:1): vendor ID is XAUTH *ISAKMP (0:1): processing vendor id payload *ISAKMP (0:1): vendor ID is DPD *ISAKMP (0:1): processing vendor id payload *ISAKMP (0:1): vendor ID seems Unity/DPD but major 123 mismatch *ISAKMP (0:1): vendor ID is NAT-T v2 *ISAKMP (0:1): processing vendor id payload *ISAKMP (0:1): vendor ID seems Unity/DPD but major 194 mismatch *ISAKMP (0:1): processing vendor id payload *ISAKMP (0:1): vendor ID is Unity *ISAKMP (0:1) Authentication by xauth preshared *ISAKMP (0:1): Checking ISAKMP transform 1 against priority 3 policy *ISAKMP: encryption AES-CBC *ISAKMP: hash SHA *ISAKMP: default group 2 *ISAKMP: auth XAUTHInitPreShared *ISAKMP: life type in seconds *ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B *ISAKMP: keylength of 256 *ISAKMP (0:1): Encryption algorithm offered does not match policy! /en/US/docs/net_mgmt/wan_service_administrator/1.1/administrator/guide/getstart.html - snip/en/US/docs/net_mgmt/wan_service_administrator/1.1/administrator/guide/getstart.html /en/US/docs/net_mgmt/wan_service_administrator/1.1/administrator/guide/getstart.html /en/US/docs/net_mgmt/wan_service_administrator/1.1/administrator/guide/getstart.html !--- ISAKMP values are acceptable and then the router continues with the !--- ISAKMP negotiation process. *ISAKMP (0:1): Checking ISAKMP transform 9 against priority 3 policy *ISAKMP: encryption 3DES-CBC *ISAKMP: hash SHA *ISAKMP: default group 2 *ISAKMP: auth XAUTHInitPreShared *ISAKMP: life
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type in seconds \*ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B \*ISAKMP (0:1): atts are acceptable. Next payload is 3 \*CryptoEngine0: generate alg parameter \*CryptoEngine0: CRYPTO\_ISA\_DH\_CREATE(hw)(ipsec) \*CRYPTO\_ENGINE: Dh phase 1 status: 0 \*ISAKMP (0:1): processing KE payload. message ID = 0 \*CryptoEngine0: generate alg parameter \*CryptoEngine0: CRYPTO\_ISA\_DH\_SHARE\_SECRET(hw)(ipsec) \*ISAKMP (0:1): processing NONCE payload. message ID = 0 \*ISAKMP (0:1): vendor ID is NAT-T v2 \*AAA: parse name=ISAKMP-ID-AUTH idb type=-1 tty=-1 \*AAA/MEMORY: create\_user (0x830E12E8) user='3000client' ruser='NULL' ds0=0 port='ISAKMP-ID-AUTH' rem\_addr='10.0.0.1' authen\_type=NONE service=LOGIN priv=0 initial\_task\_id='0', vrf=(id=0) \*ISAKMP (0:1): Input = IKE\_MSG\_FROM\_PEER, IKE\_AM\_EXCH \*ISAKMP (0:1): Old State = IKE\_READY New State = IKE\_R\_AM\_AAA\_AWAIT \*ISAKMP-ID-AUTH AAA/AUTHOR/CRYPTO AAA(54534875): Port='ISAKMP-ID-AUTH' list='groupauthor' service=NET \*AAA/AUTHOR/CRYPTO AAA: ISAKMP-ID-AUTH(54534875) user='3000client' \*ISAKMP-ID-AUTH AAA/AUTHOR/CRYPTO AAA(54534875): send AV service=ike \*ISAKMP-ID-AUTH AAA/AUTHOR/CRYPTO AAA(54534875): send AV protocol=ipsec \*ISAKMP-ID-AUTH AAA/AUTHOR/CRYPTO AAA(54534875): found list "groupauthor" \*ISAKMP-ID-AUTH AAA/AUTHOR/CRYPTO AAA(54534875): Method=LOCAL \*AAA/AUTHOR (54534875): Post authorization status = PASS\_ADD \*ISAKMP: got callback 1 \* AAA/AUTHOR/IKE: Processing AV service=ike \* AAA/AUTHOR/IKE: Processing AV protocol=ipsec \* AAA/AUTHOR/IKE: Processing AV tunnel-password=cisco123 \* AAA/AUTHOR/IKE: Processing AV default-domain\*cisco.com \* AAA/AUTHOR/IKE: Processing AV addr-pool\*ippool \* AAA/AUTHOR/IKE: Processing AV key-exchange=ike \* AAA/AUTHOR/IKE: Processing AV group-lock\*0 \* AAA/AUTHOR/IKE: Processing AV timeout\*0 \* AAA/AUTHOR/IKE: Processing AV idletime\*0 \* AAA/AUTHOR/IKE: Processing AV inacl\*108 \* AAA/AUTHOR/IKE: Processing AV dns-servers\*10.1.1.10 0.0.0.0 \* AAA/AUTHOR/IKE: Processing AV wins-servers\*10.1.1.20 0.0.0.0 \*CryptoEngine0: create ISAKMP SKEYID for conn id 1 \*CryptoEngine0: CRYPTO\_ISA\_SA\_CREATE(hw)(ipsec) \*ISAKMP (0:1): SKEYID state generated \*ISAKMP (0:1): constructed NAT-T vendor-02 ID \*ISAKMP (0:1): SA is doing pre-shared key authentication plus XAUTH using id type ID\_IPV4\_ADDR \*ISAKMP (1): ID payload next-payload : 10 type : 1 addr : 10.1.1.1 protocol : 17 port : 0 length : 8 \*ISAKMP (1): Toine0: CRYPTO\_ISA\_IKE\_DECRYPT(hw)(ipsec) \*ISAKMP (0:1): processing HASH payload. message ID = 0 \*CryptoEngine0: generate hmac context for conn id 1 \*CryptoEngine0: CRYPTO\_ISA\_IKE\_HMAC(hw)(ipsec)tal payload length: 12 \*CryptoEngine0: generate hmac conte \*ISAKMP (0:1): processing NOTIFY INITIAL\_CONTACT protocol 1 spi 0, message ID = 0, sa = 83165694 \*ISAKMP (0:1): Process initial contact, bring down existing phase 1 and 2 SA's with local 10.1.1.1 remote 10.0.0.1 remote port 500 \*ISAKMP (0:1): returning IP addr to the address pool \*ISAKMP:received payload type 17 \*ISAKMP (0:1): Detected NAT-D payload \*ISAKMP (0:1): recalc my hash for NAT-D \*ISAKMP (0:1): NAT match MINE hash \*ISAKMP:received payload type 17xt for conn id 1 \*CryptoEngine0: CRYPTO\_ISA\_IKE\_HMAC(hw)(ipsec) \*ISAKMP (0:1): constructed HIS NAT-D \*ISAKMP (0:1): constructed MINE NAT-D \*ISAKMP (0:1): sending packet to 10.0.0.1 my\_port 500 peer\_port 500 (R) AG\_INIT\_EXCH \*ISAKMP (0:1): Input = IKE\_MSG\_FROM\_AAA, PRESHARED\_KEY\_REPLY \*ISAKMP (0:1): Old State = IKE\_R\_AM\_AAA\_AWAIT New State = IKE\_R\_AM2 \*AAA/MEMORY: free\_user (0x830E12E8) user='3000client' ruser='NULL' port='ISAKMP-ID-AUTH' rem\_addr='10.0.0.1' authen\_type=NONE service=LOGIN priv=0 vrf=(id=0) \*ISAKMP (0:1): received packet from 10.0.0.1 dport 500 sport 500 Global (R) AG\_INIT\_EXCH \*CryptoEng \*ISAKMP (0:1): Detected NAT-D payload \*ISAKMP (0:1): recalc his hash for NAT-D \*ISAKMP (0:1): NAT match HIS hash \*ISAKMP (0:1): SA has been authenticated with 10.0.0.1 \*CryptoEngine0: clear dh number for conn id 1 \*ISAKMP: Trying to insert a peer 10.0.0.1/500/, and inserted successfully. \*ISAKMP (0:1): IKE\_DPD is enabled, initializing timers \*ISAKMP: set new node 2011892843 to CONF\_XAUTH \*CryptoEngine0: generate hmac context for conn id 1 \*CryptoEngine0: CRYPTO\_ISA\_IKE\_HMAC(hw)(ipsec) \*IPSEC(key\_engine): got a queue event... \*CryptoEngine0: CRYPTO\_ISA\_DH\_DELETE(hw)(ipsec) \*CryptoEngine0: CRYPTO\_ISA\_IKE\_ENCRYPT(hw)(ipsec) \*ISAKMP (0:1): sending packet to 10.0.0.1 my\_port 500 peer\_port 500 (R) QM\_IDLE \*ISAKMP (0:1): purging node 2011892843 \*ISAKMP: Sending phase 1 responder lifetime 86400 \*ISAKMP (0:1): peer matches \*none\* of the profiles \*ISAKMP (0:1): Input = IKE\_MSG\_FROM\_PEER, IKE\_AM\_EXCH \*ISAKMP (0:1): Old State = IKE\_R\_AM2 New State = IKE\_P1\_COMPLETE \*ISAKMP (0:1): Need XAUTH \*AAA: parse name=ISAKMP idb type=-1 tty=-1 \*AAA/MEMORY: create\_user (0x830DE43C) user='NULL' ruser='NULL' ds0=0 port='ISAKMP' rem\_addr='10.0.0.1' authen\_type=ASCII service=LOGIN priv=0 initial\_task\_id='0', vrf=(id=0) \*ISAKMP (0:1): Input = IKE\_MSG\_INTERNAL, IKE\_PHASE1\_COMPLETE \*ISAKMP (0:1): Old State = IKE\_P1\_COMPLETE New State = IKE\_XAUTH\_AAA\_START\_LOGIN\_AWAIT \*AAA/AUTHEN/START (992119247): port='ISAKMP' list='userauthen' action=LOGIN service=LOGIN \*AAA/AUTHEN/START (992119247): found list userauthen \*AAA/AUTHEN/START (992119247): Method=radius (radius) \*AAA/AUTHEN(992119247): Status=GETUSER \*ISAKMP: got callback 1 \*ISAKMP: set new node -883516238 to CONF\_XAUTH \*ISAKMP/xauth: request attribute XAUTH\_USER\_NAME\_V2 \*ISAKMP/xauth: request attribute XAUTH\_USER\_PASSWORD\_V2 \*CryptoEngine0: generate hmac context for conn id 1 \*CryptoEngine0: CRYPTO\_ISA\_IKE\_HMAC(hw)(ipsec) \*ISAKMP (0:1): initiating peer config to 10.0.0.1. ID = - 883516238 \*CryptoEngine0: CRYPTO\_ISA\_IKE\_ENCRYPT(hw)(ipsec) \*ISAKMP (0:1): sending packet to 10.0.0.1 my\_port 500 peer\_port 500 (R) CONF\_XAUTH \*ISAKMP (0:1): Input = IKE\_MSG\_FROM\_AAA,

IKE\_AAA\_START\_LOGIN \*ISAKMP (0:1): Old State = IKE\_XAUTH\_AAA\_START\_LOGIN\_AWAIT New State = IKE\_XAUTH\_REQ\_SENT \*ISAKMP (0:1): retransmitting phase 2 CONF\_XAUTH -883516238 ... \*ISAKMP (0:1): incrementing error counter on sa: retransmit phase 2 \*ISAKMP (0:1): incrementing error counter on sa: retransmit phase 2 \*ISAKMP (0:1): retransmitting phase 2 -883516238 CONF\_XAUTH \*ISAKMP (0:1): sending packet to 10.0.0.1 my\_port 500 peer\_port 500 (R) CONF\_XAUTH \*ISAKMP (0:1): received packet from 10.0.0.1 dport 500 sport 500 Global (R) CONF\_XAUTH \*CryptoEngine0: CRYPTO\_ISA\_IKE\_DECRYPT(hw)(ipsec) \*ISAKMP (0:1): processing transaction payload from 10.0.0.1. message ID = -883516238 \*CryptoEngine0: generate hmac context for conn id 1 \*CryptoEngine0: CRYPTO\_ISA\_IKE\_HMAC(hw)(ipsec) \*ISAKMP: Config payload REPLY \*ISAKMP/xauth: reply attribute XAUTH\_USER\_NAME\_V2 \*ISAKMP/xauth: reply attribute XAUTH\_USER\_PASSWORD\_V2 \*ISAKMP (0:1): deleting node -883516238 error FALSE reason "done with xauth request/reply exchange" \*ISAKMP (0:1): Input = IKE\_MSG\_FROM\_PEER, IKE\_CFG\_REPLY \*ISAKMP (0:1): Old State = IKE\_XAUTH\_REQ\_SENT New State = IKE\_XAUTH\_AAA\_CONT\_LOGIN\_AWAIT \*AAA/AUTHEN/CONT (992119247): continue\_login (user='(undef)') \*AAA/AUTHEN(992119247): Status=GETUSER \*AAA/AUTHEN(992119247): Method=radius (radius) \*AAA/AUTHEN(992119247): Status=GETPASS \*AAA/AUTHEN/CONT (992119247): continue\_login (user='cisco') \*AAA/AUTHEN(992119247): Status=GETPASS \*AAA/AUTHEN(992119247): Method=radius (radius) \*RADIUS: Pick NAS IP for u=0x830DE43C tableid=0 cfg\_addr=0.0.0.0 best\_addr=10.1.1.1 \*RADIUS: ustruct sharecount=2 \*Radius: radius\_port\_info() success=0 radius\_nas\_port=1 \*RADIUS(00000000): **Send Access-Request to 172.18.124.96:1645 id 21645/4, len 72** \*RADIUS: authenticator F2 7F ED 86 2B D9 80 1F - 74 D7 8F 90 3B EF F0 D5 \*RADIUS: NAS-IP-Address [4] 6 10.1.1.1 \*RADIUS: NAS-Port-Type [61] 6 Async [0] \*RADIUS: User-Name [1] 9 "cisco" \*RADIUS: Calling-Station-Id [31] 13 "10.0.0.1" \*RADIUS: User-Password [2] 18 \* \*RADIUS: Retransmit to (172.18.124.96:1645,1646) for id 21645/4 \*RADIUS: **Received from id 21645/4 172.18.124.96:1645, Access-Accept, len 62** \*RADIUS: authenticator 97 DF CB C8 74 AC 92 D6 - 3B D8 D9 DC 9E 85 94 35 \*RADIUS: Framed-IP-Address [8] 6 172.17.8.123 \*RADIUS: Class [25] 36 \*RADIUS: 43 49 53 43 4F 41 43 53 3A 30 30 30 30 31 38 32 [CISCOACS:0000182] \*RADIUS: 62 2F 61 63 31 32 37 63 39 66 2F 74 6E 65 75 62 [b/ac127c9f/cisco] \*RADIUS: 65 72 \*RADIUS: saved authorization data for user 830DE43C at 830DB5FC \*AAA/AUTHEN(992119247): Status=PASS \*ISAKMP: got callback 1 \*ISAKMP: set new node -1874799558 to CONF\_XAUTH \*CryptoEngine0: generate hmac context for conn id 1 \*CryptoEngine0: CRYPTO\_ISA\_IKE\_HMAC(hw)(ipsec) \*ISAKMP (0:1): initiating peer config to 10.0.0.1. ID = -1874799558 \*CryptoEngine0: CRYPTO\_ISA\_IKE\_ENCRYPT(hw)(ipsec) \*ISAKMP (0:1): sending packet to 10.0.0.1 my\_port 500 peer\_port 500 (R) CONF\_XAUTH \*ISAKMP (0:1): Input = IKE\_MSG\_FROM\_AAA, IKE\_AAA\_CONT\_LOGIN \*ISAKMP (0:1): Old State = IKE\_XAUTH\_AAA\_CONT\_LOGIN\_AWAIT New State = IKE\_XAUTH\_SET\_SENT \*AAA/MEMORY: free\_user (0x830DE43C) user='cisco' ruser='NULL' port='ISAKMP' rem\_addr='10.0.0.1' authen\_type=ASCII service=LOGIN priv=0 vrf= (id=0) \*ISAKMP (0:1): received packet from 10.0.0.1 dport 500 sport 500 Global (R) CONF\_XAUTH \*CryptoEngine0: CRYPTO\_ISA\_IKE\_DECRYPT(hw)(ipsec) \*ISAKMP (0:1): processing transaction payload from 10.0.0.1. message ID = -1874799558 \*CryptoEngine0: generate hmac context for conn id 1 \*CryptoEngine0: CRYPTO\_ISA\_IKE\_HMAC(hw)(ipsec) \*ISAKMP: Config payload ACK \*ISAKMP (0:1): XAUTH ACK Processed \*ISAKMP (0:1): deleting node -1874799558 error FALSE reason "done with transaction" \*ISAKMP (0:1): Input = IKE\_MSG\_FROM\_PEER, IKE\_CFG\_ACK \*ISAKMP (0:1): Old State = IKE\_XAUTH\_SET\_SENT New State = IKE\_P1\_COMPLETE \*ISAKMP (0:1): Input = IKE\_MSG\_INTERNAL, IKE\_PHASE1\_COMPLETE \*ISAKMP (0:1): Old State = IKE\_P1\_COMPLETE New State = IKE\_P1\_COMPLETE \*ISAKMP (0:1): received packet from 10.0.0.1 dport 500 sport 500 Global (R) QM\_IDLE \*ISAKMP: set new node -1474156599 to QM\_IDLE \*CryptoEngine0: CRYPTO\_ISA\_IKE\_DECRYPT(hw)(ipsec) \*ISAKMP (0:1): processing transaction payload from 10.0.0.1. message ID = -1474156599 \*CryptoEngine0: generate hmac context for conn id 1 \*CryptoEngine0: CRYPTO\_ISA\_IKE\_HMAC(hw)(ipsec) \*ISAKMP: Config payload REQUEST \*ISAKMP (0:1): checking request: \*ISAKMP: IP4\_ADDRESS \*ISAKMP: IP4\_NETMASK \*ISAKMP: IP4\_DNS \*ISAKMP: IP4\_NBNS \*ISAKMP: ADDRESS\_EXPIRY \*ISAKMP: APPLICATION\_VERSION \*ISAKMP: UNKNOWN Unknown Attr: 0x7000 \*ISAKMP: UNKNOWN Unknown Attr: 0x7001 \*ISAKMP: DEFAULT\_DOMAIN \*ISAKMP: SPLIT\_INCLUDE \*ISAKMP: UNKNOWN Unknown Attr: 0x7003 \*ISAKMP: UNKNOWN Unknown Attr: 0x7007 \*ISAKMP: UNKNOWN Unknown Attr: 0x7008 \*ISAKMP: UNKNOWN Unknown Attr: 0x7009 \*ISAKMP: UNKNOWN Unknown Attr: 0x700A \*ISAKMP: UNKNOWN Unknown Attr: 0x7005 \*AAA: parse name=ISAKMP-GROUP-AUTH idb type=-1 tty=-1 \*AAA/MEMORY: create\_user (0x831663A0) user='3000client' ruser='NULL' ds0=0 port='ISAKMP-GROUP-AUTH' rem\_addr='10.0.0.1' authen\_type=NONE service=LOGIN priv=0 initial\_task\_id='0', vrf= (id=0) \*ISAKMP (0:1): Input = IKE\_MSG\_FROM\_PEER, IKE\_CFG\_REQUEST \*ISAKMP (0:1): Old State = IKE\_P1\_COMPLETE New State = IKE\_CONFIG\_AUTHOR\_AAA\_AWAIT \*ISAKMP-GROUP-AUTH AAA/AUTHOR/CRYPTO AAA(3136771130): Port='ISAKMP-GROUP-AUTH' list='groupauthor' service=NET \*AAA/AUTHOR/CRYPTO AAA: ISAKMP-GROUP-AUTH(3136771130) user='3000client' \*ISAKMP-GROUP-AUTH AAA/AUTHOR/CRYPTO AAA(3136771130): send AV service=ike \*ISAKMP-GROUP-AUTH AAA/AUTHOR/CRYPTO AAA(3136771130): send AV protocol=ipsec \*ISAKMP-GROUP-AUTH AAA/AUTHOR/CRYPTO AAA(3136771130): found list "groupauthor" \*ISAKMP-GROUP-AUTH AAA/AUTHOR/CRYPTO AAA(3136771130): Method=LOCAL \*AAA/AUTHOR (3136771130): Post authorization status = PASS\_ADD \*ISAKMP: got callback 1 \* AAA/AUTHOR/IKE: Processing AV service=ike \* AAA/AUTHOR/IKE: Processing AV protocol=ipsec \* AAA/AUTHOR/IKE: Processing AV



tunnel-password=cisco123 \* AAA/AUTHOR/IKE: Processing AV default-domain\*cisco.com \*  
AAA/AUTHOR/IKE: Processing AV addr-pool\*ippool \* AAA/AUTHOR/IKE: Processing AV key-exchange=ike  
\* AAA/AUTHOR/IKE: Processing AV group-lock\*0 \* AAA/AUTHOR/IKE: Processing AV timeout\*0 \*  
AAA/AUTHOR/IKE: Processing AV idletime\*0 \* AAA/AUTHOR/IKE: Processing AV inacl\*108 \*  
AAA/AUTHOR/IKE: Processing AV dns-servers\*10.1.1.10 0.0.0.0 \* AAA/AUTHOR/IKE: Processing AV  
wins-servers\*10.1.1.20 0.0.0.0 \*ISAKMP (0:1): attributes sent in message: \* Address: 0.2.0.0  
\*ISAKMP (0:1): allocating address 10.16.20.1 \*ISAKMP: Sending private address: 10.16.20.1  
\*ISAKMP: Sending IP4\_DNS server address: 10.1.1.10 \*ISAKMP: Sending IP4\_NBNS server address:  
10.1.1.20 \*ISAKMP: Sending ADDRESS\_EXPIRY seconds left to use the address: 86388 \*ISAKMP:  
Sending APPLICATION\_VERSION string: Cisco Internetwork Operating System Software IOS (tm) C2600  
Software (C2600-IK9S-M), Version 12.2(15)T2, RELEASE SOFTWARE (fc2) TAC Support:  
http://www.cisco.com/tac Copyright (c) 1986-2003 by cisco Systems, Inc. Compiled Thu 01-May-03  
10:39 by nmasa \*ISAKMP (0/1): Unknown Attr: UNKNOWN (0x7000) \*ISAKMP (0/1): Unknown Attr:  
UNKNOWN (0x7001) \*ISAKMP: Sending DEFAULT\_DOMAIN default domain name: cisco.com \*ISAKMP: Sending  
split include name 108 network 172.18.124.0 mask 255.255.255.0 protocol 0, src port 0, dst port  
0 \*ISAKMP (0/1): Unknown Attr: UNKNOWN (0x7003) \*ISAKMP (0/1): Unknown Attr: UNKNOWN (0x7007)  
\*ISAKMP (0/1): Unknown Attr: UNKNOWN (0x7008) \*ISAKMP (0/1): Unknown Attr: UNKNOWN (0x7009)  
\*ISAKMP (0/1): Unknown Attr: UNKNOWN (0x700A) \*ISAKMP (0/1): Unknown Attr: UNKNOWN (0x7005)  
\*CryptoEngine0: generate hmac context for conn id 1 \*CryptoEngine0:  
CRYPTO\_ISA\_IKE\_HMAC(hw)(ipsec) \*ISAKMP (0:1): responding to peer config from 10.0.0.1. ID = -  
1474156599 \*CryptoEngi\*ISAKMP (0:1): deleting node -1474156599 error FALSE reason "ne0:  
CRYPTO\_ISA\_IKE\_ENCRYPT(hw)(ipsec) \*ISAKMP (0:1): sending packet to 10.0.0.1 my\_por231 \*ISAKMP  
(0:1): processing SA payload. message ID = 2058744231 \*ISAKMP (0:1): Checking IPsec proposal 1  
\*ISAKMP: transform 1, ESP\_AES \*ISAKMP: attributes in transform: \*ISAKMP: authenticator is HMAC-  
MD5 \*ISAKMP: encaps is 1 \*ISAKMP: key length is 256t 500 peer\_port 500 (R) CONF\_ADDR \*ISAKMP  
(0:1): Input = IKE\_MSG\_FROM\_AAA, IKE\_AAA\_GROUP\_ATTR \*ISAKMP (0:1): Old State =  
IKE\_CONFIG\_AUTHOR\_AAA\_AWAIT New State = IKE\_P1\_COMPLETE \*AAA/MEMORY: free\_user (0x831663A0)  
user='3000client' ruser='NULL' port='ISAKMP-GROUP-AUTH' rem\_addr='10.0.0.1' authen\_type=NONE  
service=LOGIN priv=0 vrf= (id=0) \*ISAKMP (0:1): received packet from 10.0.0.1 dport 500 sport  
500 Global (R) QM\_IDLE \*ISAKMP: set new node 2058744231 to QM\_IDLE \*CryptoEngine0:  
CRYPTO\_ISA\_IKE\_DECRYPT(hw)(ipsec) \*CryptoEngine0: generate hmac context for conn id 1  
\*CryptoEngine0: CRYPTO\_ISA\_IKE\_HMAC(hw)(ipsec) \*ISAKMP (0:1): processing HASH payload. message  
ID = 2058744 \*ISAKMP: SA life type in seconds \*ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4  
0x9B \*CryptoEngine0: validate proposal \*ISAKMP (0:1): atts are acceptable. \*ISAKMP (0:1):  
Checking IPsec proposal 1 \*ISAKMP (0:1): transform 1, IPPCP LZS \*ISAKMP: attributes in  
transform: \*ISAKMP: encaps is 1 \*ISAKMP: SA life type in seconds \*ISAKMP: SA life duration (VPI)  
of 0x0 0x20 0xC4 0x9B \*ISAKMP (0:1): atts are acceptable. \*IPSEC(validate\_proposal\_request):  
proposal part #1, (key eng. msg.) INBOUND local= 10.1.1.1, remote= 10.0.0.1, local\_proxy=  
10.1.1.1/255.255.255.255/0/0 (type=1), remote\_proxy= 10.16.20.1/255.255.255.255/0/0 (type=1),  
protocol= ESP, transform= esp-aes 256 esp-md5-hmac , lifedur= 0s and 0kb, spi= 0x0(0), conn\_id=  
0, keysize= 256, flags= 0x2 \*IPSEC(validate\_proposal\_request): proposal part #2, (key eng. msg.)  
INBOUND local= 10.1.1.1, remote= 10.0.0.1, local\_proxy= 10.1.1.1/255.255.255.255/0/0 (type=1),  
remote\_proxy= 10.16.20.1/255.255.255.255/0/0 (type=1), protocol= PCP, transform= comp-lzs ,  
lifedur= 0s and 0kb, spi= 0x0(0), conn\_id= 0, keysize= 0, flags= 0x2 \*CryptoEngine0: validate  
proposal request \*IPSEC(kei\_proxy): head = clientmap, map->ivrf = , kei->ivrf =  
\*IPSEC(validate\_transform\_proposal): transform proposal not supported for identity: {esp-aes 256  
esp-md5-hmac comp-lzs } \*ISAKMP (0:1): IPsec policy invalidated proposal \*ISAKMP (0:1): Checking  
IPsec proposal 2 \*ISAKMP: transform 1, ESP\_AES \*ISAKMP: attributes in transform: \*ISAKMP:  
authenticator is HMAC-SHA \*ISAKMP: encaps is 1 \*ISAKMP: key length is 256 \*ISAKMP: SA life type  
in seconds \*ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B \*CryptoEngine0: validate  
proposal \*ISAKMP (0:1): atts are acceptable. \*ISAKMP (0:1): Checking IPsec proposal 2 \*ISAKMP  
(0:1): transform 1, IPPCP LZS \*ISAKMP: attributes in transform: \*ISAKMP: encaps is 1 \*ISAKMP: SA  
life type in seconds \*ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B \*ISAKMP (0:1): atts  
are acceptable. \*IPSEC(validate\_proposal\_request): proposal part #1, (key eng. msg.) INBOUND  
local= 10.1.1.1, remote= 10.0.0.1, local\_proxy= 10.1.1.1/255.255.255.255/0/0 (type=1),  
remote\_proxy= 10.16.20.1/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-aes 256  
esp-sha-hmac , lifedur= 0s and 0kb, spi= 0x0(0), conn\_id= 0, keysize= 256, flags= 0x2  
\*IPSEC(validate\_proposal\_request): proposal part #2, (key eng. msg.) INBOUND local= 10.1.1.1,  
remote= 10.0.0.1, local\_proxy= 10.1.1.1/255.255.255.255/0/0 (type=1), remote\_proxy=  
10.16.20.1/255.255.255.255/0/0 (type=1), protocol= PCP, transform= comp-lzs , lifedur= 0s and  
0kb, spi= 0x0(0), conn\_id= 0, keysize= 0, flags= 0x2 \*CryptoEngine0: validate proposal request  
\*IPSEC(kei\_proxy): head = clientmap, map->ivrf = , kei->ivrf =  
\*IPSEC(validate\_transform\_proposal): transform proposal not supported for identity: {esp-aes 256  
esp-sha-hmac comp-lzs } \*ISAKMP (0:1): IPsec policy invalidated proposal \*ISAKMP (0:1): Checking

IPSec proposal 3 \*ISAKMP: transform 1, ESP\_AES \*ISAKMP: attributes in transform: \*ISAKMP: authenticator is HMAC-MD5 \*ISAKMP: encaps is 1 \*ISAKMP: key length is 128 \*ISAKMP: SA life type in seconds \*ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B \*CryptoEngine0: validate proposal \*ISAKMP (0:1): atts are acceptable. \*ISAKMP (0:1): Checking IPSec proposal 3 \*ISAKMP (0:1): transform 1, IPPCP LZS \*ISAKMP: attributes in transform: \*ISAKMP: encaps is 1 \*ISAKMP: SA life type in seconds \*ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B \*ISAKMP (0:1): atts are acceptable. \*IPSEC(validate\_proposal\_request): proposal part #1, (key eng. msg.) INBOUND local= 10.1.1.1, remote= 10.0.0.1, local\_proxy= 10.1.1.1/255.255.255.255/0/0 (type=1), remote\_proxy= 10.16.20.1/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-aes esp-md5-hmac , lifedur= 0s and 0kb, spi= 0x0(0), conn\_id= 0, keysize= 128, flags= 0x2 \*IPSEC(validate\_proposal\_request): proposal part #2, (key eng. msg.) INBOUND local= 10.1.1.1, remote= 10.0.0.1, local\_proxy= 10.1.1.1/255.255.255.255/0/0 (type=1), remote\_proxy= 10.16.20.1/255.255.255.255/0/0 (type=1), protocol= PCP, transform= comp-lzs , lifedur= 0s and 0kb, spi= 0x0(0), conn\_id= 0, keysize= 0, flags= 0x2 \*CryptoEngine0: validate proposal request \*IPSEC(kei\_proxy): head = clientmap, map->ivrf = , kei->ivrf = \*IPSEC(validate\_transform\_proposal): transform proposal not supported for identity: {esp-aes esp-md5-hmac comp-lzs } \*ISAKMP (0:1): IPSec policy invalidated proposal \*ISAKMP (0:1): Checking IPSec proposal 4 \*ISAKMP: transform 1, ESP\_AES \*ISAKMP: attributes in transform: \*ISAKMP: authenticator is HMAC-SHA \*ISAKMP: encaps is 1 \*ISAKMP: key length is 128 \*ISAKMP: SA life type in seconds \*ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B \*CryptoEngine0: validate proposal \*ISAKMP (0:1): atts are acceptable. \*ISAKMP (0:1): Checking IPSec proposal 4 \*ISAKMP (0:1): transform 1, IPPCP LZS \*ISAKMP: attributes in transform: \*ISAKMP: encaps is 1 \*ISAKMP: SA life type in seconds \*ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B \*ISAKMP (0:1): atts are acceptable. \*IPSEC(validate\_proposal\_request): proposal part #1, (key eng. msg.) INBOUND local= 10.1.1.1, remote= 10.0.0.1, local\_proxy= 10.1.1.1/255.255.255.255/0/0 (type=1), remote\_proxy= 10.16.20.1/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-aes esp-sha-hmac , lifedur= 0s and 0kb, spi= 0x0(0), conn\_id= 0, keysize= 128, flags= 0x2 \*IPSEC(validate\_proposal\_request): proposal part #2, (key eng. msg.) INBOUND local= 10.1.1.1, remote= 10.0.0.1, local\_proxy= 10.1.1.1/255.255.255.255/0/0 (type=1), remote\_proxy= 10.16.20.1/255.255.255.255/0/0 (type=1), protocol= PCP, transform= comp-lzs , lifedur= 0s and 0kb, spi= 0x0(0), conn\_id= 0, keysize= 0, flags= 0x2 \*CryptoEngine0: validate proposal request \*IPSEC(kei\_proxy): head = clientmap, map->ivrf = , kei->ivrf = \*IPSEC(validate\_transform\_proposal): transform proposal not supported for identity: {esp-aes esp-sha-hmac comp-lzs } \*ISAKMP (0:1): IPSec policy invalidated proposal \*ISAKMP (0:1): Checking IPSec proposal 5 \*ISAKMP: transform 1, ESP\_AES \*ISAKMP: attributes in transform: \*ISAKMP: authenticator is HMAC-MD5 \*ISAKMP: encaps is 1 \*ISAKMP: key length is 256 \*ISAKMP: SA life type in seconds \*ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B \*CryptoEngine0: validate proposal \*ISAKMP (0:1): atts are acceptable. \*IPSEC(validate\_proposal\_request): proposal part #1, (key eng. msg.) INBOUND local= 10.1.1.1, remote= 10.0.0.1, local\_proxy= 10.1.1.1/255.255.255.255/0/0 (type=1), remote\_proxy= 10.16.20.1/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-aes 256 esp-md5-hmac , lifedur= 0s and 0kb, spi= 0x0(0), conn\_id= 0, keysize= 256, flags= 0x2 \*CryptoEngine0: validate proposal request \*IPSEC(kei\_proxy): head = clientmap, map->ivrf = , kei->ivrf = \*IPSEC(validate\_transform\_proposal): transform proposal not supported for identity: {esp-aes 256 esp-md5-hmac } \*ISAKMP (0:1): IPSec policy invalidated proposal \*ISAKMP (0:1): Checking IPSec proposal 6 \*ISAKMP: transform 1, ESP\_AES \*ISAKMP: attributes in transform: \*ISAKMP: authenticator is HMAC-SHA \*ISAKMP: encaps is 1 \*ISAKMP: key length is 256 \*ISAKMP: SA life type in seconds \*ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B \*CryptoEngine0: validate proposal \*ISAKMP (0:1): atts are acceptable. \*IPSEC(validate\_proposal\_request): proposal part #1, (key eng. msg.) INBOUND local= 10.1.1.1, remote= 10.0.0.1, local\_proxy= 10.1.1.1/255.255.255.255/0/0 (type=1), remote\_proxy= 10.16.20.1/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-aes 256 esp-sha-hmac , lifedur= 0s and 0kb, spi= 0x0(0), conn\_id= 0, keysize= 256, flags= 0x2 \*CryptoEngine0: validate proposal request \*IPSEC(kei\_proxy): head = clientmap, map->ivrf = , kei->ivrf = \*IPSEC(validate\_transform\_proposal): transform proposal not supported for identity: {esp-aes 256 esp-sha-hmac } \*ISAKMP (0:1): IPSec policy invalidated proposal \*ISAKMP (0:1): Checking IPSec proposal 7 \*ISAKMP: transform 1, ESP\_AES \*ISAKMP: attributes in transform: \*ISAKMP: authenticator is HMAC-MD5 \*ISAKMP: encaps is 1 \*ISAKMP: key length is 128 \*ISAKMP: SA life type in seconds \*ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B \*CryptoEngine0: validate proposal \*ISAKMP (0:1): atts are acceptable. \*IPSEC(validate\_proposal\_request): proposal part #1, (key eng. msg.) INBOUND local= 10.1.1.1, remote= 10.0.0.1, local\_proxy= 10.1.1.1/255.255.255.255/0/0 (type=1), remote\_proxy= 10.16.20.1/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-aes esp-md5-hmac , lifedur= 0s and 0kb, spi= 0x0(0), conn\_id= 0, keysize= 128, flags= 0x2 \*CryptoEngine0: validate proposal request \*IPSEC(kei\_proxy): head = clientmap, map->ivrf = , kei->ivrf = \*IPSEC(validate\_transform\_proposal): transform proposal not

supported for identity: {esp-aes esp-md5-hmac } \*ISAKMP (0:1): IPsec policy invalidated proposal  
\*ISAKMP (0:1): Checking IPsec proposal 8 \*ISAKMP: transform 1, ESP\_AES \*ISAKMP: attributes in  
transform: \*ISAKMP: authenticator is HMAC-SHA \*ISAKMP: encaps is 1 \*ISAKMP: key length is 128  
\*ISAKMP: SA life type in seconds \*ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B  
\*CryptoEngine0: validate proposal \*ISAKMP (0:1): atts are acceptable.  
\*IPSEC(validate\_proposal\_request): proposal part #1, (key eng. msg.) INBOUND local= 10.1.1.1,  
remote= 10.0.0.1, local\_proxy= 10.1.1.1/255.255.255.255/0/0 (type=1), remote\_proxy=  
10.16.20.1/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-aes esp-sha-hmac ,  
lifedur= 0s and 0kb, spi= 0x0(0), conn\_id= 0, keysize= 128, flags= 0x2 \*CryptoEngine0: validate  
proposal request \*IPSEC(kei\_proxy): head = clientmap, map->ivrf = , kei->ivrf =  
\*IPSEC(validate\_transform\_proposal): transform proposal not supported for identity: {esp-aes  
esp-sha-hmac } \*ISAKMP (0:1): IPsec policy invalidated proposal \*ISAKMP (0:1): Checking IPsec  
proposal 9 \*ISAKMP: transform 1, ESP\_3DES \*ISAKMP: attributes in transform: \*ISAKMP:  
authenticator is HMAC-MD5 \*ISAKMP: encaps is 1 \*ISAKMP: SA life type in seconds \*ISAKMP: SA life  
duration (VPI) of 0x0 0x20 0xC4 0x9B \*CryptoEngine0: validate proposal \*ISAKMP (0:1): atts are  
acceptable. \*ISAKMP (0:1): Checking IPsec proposal 9 \*ISAKMP (0:1): transform 1, IPPCP LZS  
\*ISAKMP: attributes in transform: \*ISAKMP: encaps is 1 \*ISAKMP: SA life type in seconds  
\*IPSEC(spi\_response): getting spi 3233689542 for SA from 10.1.1.1 to 10.0.0.1 for prot 3  
\*ISAKMP: received ke message (2/1) \*CryptoEngine0: generate hmac context for conn id 1  
\*CryptoEngine0: CRYPTO\_ISA\_IKE\_HMAC(hw)(ipsec) \*CryptoEngine0: CRYPTO\_ISA\_IKE\_ENCRYPT(hw)(ipsec)  
\*ISAKMP (0:1): sending packet to 10.0.0.1 my\_port 500 peer\_port 500 (R) QM\_IDLE \*ISAKMP (0:1):  
Node 2058744231, Input = IKE\_MSG\_FROM\_IPSEC, IKE\_SPI\_REPLY \*ISAKMP (0:1): Old State =  
IKE\_QM\_SPI\_STARVE New State = IKE\_QM\_R\_QM2 \*ISAKMP (0:1): received packet from 10.0.0.1 dport  
500 sport 500 Global (R) QM\_IDLE \*CryptoEngine0: CRYPTO\_ISA\_IKE\_DECRYPT(hw)(ipsec)  
\*CryptoEngine0: generate hmac context for conn id 1 \*CryptoEngine0:  
CRYPTO\_ISA\_IKE\_HMAC(hw)(ipsec) \*CryptoEngine0: ipsec allocate flow \*CryptoEngine0: ipsec  
allocate flow \*CryptoEngine0: CRYPTO\_ISA\_IPSEC\_KEY\_CREATE(hw)(ipsec) \*CryptoEngine0:  
CRYPTO\_ISA\_IPSEC\_KEY\_CREATE(hw)(ipsec) \*ISAKMP: Locking peer struct 0x83166B20, IPSEC refcount 1  
for for stuff\_ke !--- A matching IPsec policy has been negotiated and authenticated. !--- Next,  
the SA's are set up. \*ISAKMP (0:1): Creating IPsec SAs \* inbound SA from 10.0.0.1 to 10.1.1.1  
(f/i) 0/ 0 (proxy 10.16.20.1 to 10.1.1.1) \* has spi 0xC0BE2FC6 and conn\_id 420 and flags 2 \*  
lifetime of 2147483 seconds \* has client flags 0x0 \* outbound SA from 10.1.1.1 to 10.0.0.1 (f/i)  
0/ 0 (proxy 10.1.1.1 to 10.16.20.1 ) \*ISAKMP (0:1): received packet from 10.0.0.1 dport 500  
sport 500 Global (R) QM\_IDLE \*ISAKMP: set new node 1101355775 to QM\_IDLE \*CryptoEngine0:  
CRYPTO\_ISA\_IKE\_DECRYPT(hw)(ipsec) \*CryptoEngine0: generate hmac context for conn id 1  
\*CryptoEngine0: CRYPTO\_ISA\_IKE\_HMAC(hw)(ipsec) \*ISAKMP (0:1): processing HASH payload. message  
ID = 1101355775 \*ISAKMP (0:1): processing SA payload. message ID = 1101355775 \*ISAKMP (0:1):  
Checking IPsec proposal 1 \*ISAKMP: transform 1, ESP\_AES \*ISAKMP: attributes in transform:  
\*ISAKMP: authenticator is HMAC-MD5 \*ISAKMP: encaps is 1 \*ISAKMP: key length is 256 \*ISAKMP: SA  
life type in seconds \*ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B \*CryptoEngine0:  
validate proposal \*ISAKMP (0:1): atts are acceptable. \*ISAKMP (0:1): Checking IPsec proposal 1  
\*ISAKMP (0:1): transform 1, IPPCP LZS \*ISAKMP: attributes in transform: \*ISAKMP: encaps is 1  
\*ISAKMP: SA life type in seconds \*ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B \*ISAKMP  
(0:1): atts are acceptable. \*IPSEC(validate\_proposal\_request): proposal part #1, (key eng. msg.)  
INBOUND local= 10.1.1.1, remote= 10.0.0.1, local\_proxy= 172.18.124.0/255.255.255.0/0/0 (type=4),  
remote\_proxy= 10.16.20.1/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-aes 256  
esp-md5-hmac , lifedur= 0s and 0kb, spi= 0x0(0), conn\_id= 0, keysize= 256, flags= 0x2  
\*IPSEC(validate\_proposal\_request): proposal part #2, (key eng. msg.) INBOUND local= 10.1.1.1,  
remote= 10.0.0.1, local\_proxy= 172.18.124.0/255.255.255.0/0/0 (type=4), remote\_proxy=  
10.16.20.1/255.255.255.255/0/0 (type=1), protocol= PCP, transform= comp-lzs , lifedur= 0s and  
0kb, spi= 0x0(0), conn\_id= 0, keysize= 0, flags= 0x2 \*CryptoEngine0: validate proposal request  
\*IPSEC(kei\_proxy): head = clientmap, map->ivrf = , kei->ivrf = \*IPSEC(kei\_proxy): head =  
clientmap, map->ivrf = , kei->ivrf = \*IPSEC(validate\_transform\_proposal): transform proposal not  
supported for identity: {esp-aes 256 esp-md5-hmac comp-lzs } \*ISAKMP (0:1): IPsec policy  
invalidated proposal \*ISAKMP (0:1): Checking IPsec proposal 2 \*ISAKMP: transform 1, ESP\_AES  
\*ISAKMP: attributes in transform: \*ISAKMP: authenticator is HMAC-SHA \*ISAKMP: encaps is 1  
\*ISAKMP: key length is 256 \*ISAKMP: SA life type in seconds \*ISAKMP: SA life duration (VPI) of  
0x0 0x20 0xC4 0x9B \*CryptoEngine0: validate proposal \*ISAKMP (0:1): atts are acceptable. \*ISAKMP  
(0:1): Checking IPsec proposal 2 \*ISAKMP (0:1): transform 1, IPPCP LZS \*ISAKMP: attributes in  
transform: \*ISAKMP: encaps is 1 \*ISAKMP: SA life type in seconds \*ISAKMP: SA life duration (VPI)  
of 0x0 0x20 0xC4 0x9B \*ISAKMP (0:1): atts are acceptable. \*IPSEC(validate\_proposal\_request):  
proposal part #1, (key eng. msg.) INBOUND local= 10.1.1.1, remote= 10.0.0.1, local\_proxy=  
172.18.124.0/255.255.255.0/0/0 (type=4), remote\_proxy=10.16.20.1/255.255.255.255/0/0 (type=1),  
protocol= ESP, transform= esp-aes 256 esp-sha-hmac , lifedur= 0s and 0kb, spi= 0x0(0), conn\_id=

0, keysize= 256, flags= 0x2 \*IPSEC(validate\_proposal\_request): proposal part #2, (key eng. msg.) INBOUND local= 10.1.1.1, remote= 10.0.0.1, local\_proxy= 172.18.124.0/255.255.255.0/0/0 (type=4), remote\_proxy= 10.16.20.1/255.255.255.255/0/0 (type=1), protocol= PCP, transform= comp-lzs , lifedur= 0s and 0kb, spi= 0x0(0), conn\_id= 0, keysize= 0, flags= 0x2 \*CryptoEngine0: validate proposal request \*IPSEC(kei\_proxy): head = clientmap, map->ivrf = , kei->ivrf = \*IPSEC(kei\_proxy): head = clientmap, map->ivrf = , kei->ivrf = \*IPSEC(validate\_transform\_proposal): transform proposal not supported for identity: {esp-aes 256 esp-sha-hmac comp-lzs } \*ISAKMP (0:1): IPsec policy invalidated proposal \*ISAKMP (0:1): Checking IPsec proposal 3 \*ISAKMP: transform 1, ESP\_AES \*ISAKMP: attributes in transform: \*ISAKMP: authenticator is HMAC-MD5 \*ISAKMP: encaps is 1 \*ISAKMP: key length is 128 \*ISAKMP: SA life type in seconds \*ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B \*CryptoEngine0: validate proposal \*ISAKMP (0:1): atts are acceptable. \*ISAKMP (0:1): Checking IPsec proposal 3 \*ISAKMP (0:1): transform 1, IPPCP LZS \*ISAKMP: attributes in transform: \*ISAKMP: encaps is 1 \*ISAKMP: SA life type in seconds \*ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B \*ISAKMP (0:1): atts are acceptable. \*IPSEC(validate\_proposal\_request): proposal part #1, (key eng. msg.) INBOUND local= 10.1.1.1, remote= 10.0.0.1, local\_proxy= 172.18.124.0/255.255.255.0/0/0 (type=4), remote\_proxy= 10.16.20.1/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-aes esp-md5-hmac , lifedur= 0s and 0kb, spi= 0x0(0), conn\_id= 0, keysize= 128, flags= 0x2 \*IPSEC(validate\_proposal\_request): proposal part #2, (key eng. msg.) INBOUND local= 10.1.1.1, remote= 10.0.0.1, local\_proxy= 172.18.124.0/255.255.255.0/0/0 (type=4), remote\_proxy= 10.16.20.1/255.255.255.255/0/0 (type=1), protocol= PCP, transform= comp-lzs , lifedur= 0s and 0kb, spi= 0x0(0), conn\_id= 0, keysize= 0, flags= 0x2 \*CryptoEngine0: validate proposal request \*IPSEC(kei\_proxy): head = clientmap, map->ivrf = , kei->ivrf = \*IPSEC(kei\_proxy): head = clientmap, map->ivrf = , kei->ivrf = \*IPSEC(validate\_transform\_proposal): transform proposal not supported for identity: {esp-aes esp-md5-hmac comp-lzs } \*ISAKMP (0:1): IPsec policy invalidated proposal \*ISAKMP (0:1): Checking IPsec proposal 4 \*ISAKMP: transform 1, ESP\_AES \*ISAKMP: attributes in transform: \*ISAKMP: authenticator is HMAC-SHA \*ISAKMP: encaps is 1 \*ISAKMP: key length is 128 \*ISAKMP: SA life type in seconds \*ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B \*CryptoEngine0: validate proposal \*ISAKMP (0:1): atts are acceptable. \*ISAKMP (0:1): Checking IPsec proposal 4 \*ISAKMP (0:1): transform 1, IPPCP LZS \*ISAKMP: attributes in transform: \*ISAKMP: encaps is 1 \*ISAKMP: SA life type in seconds \*ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B \*ISAKMP (0:1): atts are acceptable. \*IPSEC(validate\_proposal\_request): proposal part #1, (key eng. msg.) INBOUND local= 10.1.1.1, remote= 10.0.0.1, local\_proxy= 172.18.124.0/255.255.255.0/0/0 (type=4), remote\_proxy= 10.16.20.1/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-aes esp-sha-hmac , lifedur= 0s and 0kb, spi= 0x0(0), conn\_id= 0, keysize= 128, flags= 0x2 \*IPSEC(validate\_proposal\_request): proposal part #2, (key eng. msg.) INBOUND local= 10.1.1.1, remote= 10.0.0.1, local\_proxy= 172.18.124.0/255.255.255.0/0/0 (type=4), remote\_proxy= 10.16.20.1/255.255.255.255/0/0 (type=1), protocol= PCP, transform= comp-lzs , lifedur= 0s and 0kb, spi= 0x0(0), conn\_id= 0, keysize= 0, flags= 0x2 \*CryptoEngine0: validate proposal request \*IPSEC(kei\_proxy): head = clientmap, map->ivrf = , kei->ivrf = \*IPSEC(kei\_proxy): head = clientmap, map->ivrf = , kei->ivrf = \*IPSEC(validate\_transform\_proposal): transform proposal not supported for identity: {esp-aes esp-sha-hmac comp-lzs } \*ISAKMP (0:1): IPsec policy invalidated proposal \*ISAKMP (0:1): Checking IPsec proposal 5 \*ISAKMP: transform 1, ESP\_AES \*ISAKMP: attributes in transform: \*ISAKMP: authenticator is HMAC-MD5 \*ISAKMP: encaps is 1 \*ISAKMP: key length is 256 \*ISAKMP: SA life type in seconds \*ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B \*CryptoEngine0: validate proposal \*ISAKMP (0:1): atts are acceptable. \*IPSEC(validate\_proposal\_request): proposal part #1, (key eng. msg.) INBOUND local= 10.1.1.1, remote= 10.0.0.1, local\_proxy= 172.18.124.0/255.255.255.0/0/0 (type=4), remote\_proxy= 10.16.20.1/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-aes 256 esp-md5-hmac , lifedur= 0s and 0kb, spi= 0x0(0), conn\_id= 0, keysize= 256, flags= 0x2 \*CryptoEngine0: validate proposal request \*IPSEC(kei\_proxy): head = clientmap, map->ivrf = , kei->ivrf = \*IPSEC(kei\_proxy): head = clientmap, map->ivrf = , kei->ivrf = \*IPSEC(validate\_transform\_proposal): transform proposal not supported for identity: {esp-aes 256 esp-md5-hmac } \*ISAKMP (0:1): IPsec policy invalidated proposal \*ISAKMP (0:1): Checking IPsec proposal 6 \*ISAKMP: transform 1, ESP\_AES \*ISAKMP: attributes in transform: \*ISAKMP: authenticator is HMAC-SHA \*ISAKMP: encaps is 1 \*ISAKMP: key length is 256 \*ISAKMP: SA life type in seconds \*ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B \*CryptoEngine0: validate proposal \*ISAKMP (0:1): atts are acceptable. \*IPSEC(validate\_proposal\_request): proposal part #1, (key eng. msg.) INBOUND local= 10.1.1.1, remote= 10.0.0.1, local\_proxy= 172.18.124.0/255.255.255.0/0/0 (type=4), remote\_proxy= 10.16.20.1/255.255.255.255/0/0 (type=1), protocol= ESP, transform= esp-aes 256 esp-sha-hmac , lifedur= 0s and 0kb, spi= 0x0(0), conn\_id= 0, keysize= 256, flags= 0x2 \*CryptoEngine0: validate proposal request \*IPSEC(kei\_proxy): head = clientmap, map->ivrf = , kei->ivrf = \*IPSEC(kei\_proxy): head = clientmap, map->ivrf = , kei->ivrf = \*IPSEC(validate\_transform\_proposal): transform proposal not supported for identity:

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{esp-aes 256 esp-sha-hmac } *ISAKMP (0:1): IPsec policy invalidated proposal *ISAKMP (0:1):
Checking IPsec proposal 7 *ISAKMP: transform 1, ESP_AES *ISAKMP: attributes in transform:
*ISAKMP: authenticator is HMAC-MD5 *ISAKMP: encaps is 1 *ISAKMP: key length is 128 *ISAKMP: SA
life type in seconds *ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B *CryptoEngine0:
validate proposal *ISAKMP (0:1): atts are acceptable. *IPSEC(validate_proposal_request):
proposal part #1, (key eng. msg.) INBOUND local= 10.1.1.1, remote= 10.0.0.1, local_proxy=
172.18.124.0/255.255.255.0/0/0 (type=4), remote_proxy= 10.16.20.1/255.255.255.255/0/0 (type=1),
protocol= ESP, transform= esp-aes esp-md5-hmac , lifedur= 0s and 0kb, spi= 0x0(0), conn_id= 0,
keysize= 128, flags= 0x2 *CryptoEngine0: validate proposal request *IPSEC(kei_proxy): head =
clientmap, map->ivrf = , kei->ivrf = *IPSEC(kei_proxy): head = clientmap, map->ivrf = , kei-
>ivrf = *IPSEC(validate_transform_proposal): transform proposal not supported for identity:
{esp-aes esp-md5-hmac } *ISAKMP (0:1): IPsec policy invalidated proposal *ISAKMP (0:1): Checking
IPsec proposal 8 *ISAKMP: transform 1, ESP_AES *ISAKMP: attributes in transform: *ISAKMP:
authenticator is HMAC-SHA *ISAKMP: encaps is 1 *ISAKMP: key length is 128 *ISAKMP: SA life type
in seconds *ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B *CryptoEngine0: validate
proposal *ISAKMP (0:1): atts are acceptable. *IPSEC(spi_response): getting spi 3438126624 for SA
from 10.1.1.1 to 10.0.0.1 for prot 3 *ISAKMP: received ke message (2/1) *CryptoEngine0: generate
hmac context for conn id 1 *CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec) *CryptoEngine0:
CRYPTO_ISA_IKE_ENCRYPT(hw)(ipsec) *ISAKMP (0:1): sending packet to 10.0.0.1 my_port 500
peer_port 500 (R) QM_IDLE *ISAKMP (0:1): Node 1101355775, Input = IKE_MSG_FROM_IPSEC,
IKE_SPI_REPLY *ISAKMP (0:1): Old State = IKE_QM_SPI_STARVE New State = IKE_QM_R_QM2 *ISAKMP
(0:1): received packet from 10.0.0.1 dport 500 sport 500 Global (R) QM_IDLE *CryptoEngine0:
CRYPTO_ISA_IKE_DECRYPT(hw)(ipsec) *CryptoEngine0: generate hmac context for conn id 1
*CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec) *CryptoEngine0: ipsec allocate flow
*CryptoEngine0: ipsec allocate flow *CryptoEngine0: CRYPTO_ISA_IPSEC_KEY_CREATE(hw)(ipsec)
*CryptoEngine0: CRYPTO_ISA_IPSEC_KEY_CREATE(hw)(ipsec) *ISAKMP: Locking peer struct 0x83166B20,
IPSEC refcount 2 for for stuff_ke *ISAKMP (0:1): Creating IPsec SAs * inbound SA from 10.0.0.1
to 10.1.1.1 (f/i) 0/ 0 (proxy 10.16.20.1 to 172.18.124.0) * has spi 0xCCEDA620 and conn_id 422
and flags 2 * lifetime of 2147483 seconds * has client flags 0x0 * outbound SA from 10.1.1.1 to
10.0.0.1 (f/i) 0/ 0 (proxy 172.18.124.0 to 10.16.20.1 )

```

## Registros de Cliente

Lance o LogViewer no cliente VPN a fim ver os logs. Certifique-se de que o filtro está ajustado à elevação para todas as classes configuradas. Este é um registro de saída da amostra:

```

1      16:52:27.031 06/18/03 Sev=Info/6      DIALER/0x63300002
Initiating connection.

2      16:52:27.041 06/18/03 Sev=Info/4      CM/0x63100002
Begin connection process

3      16:52:27.051 06/18/03 Sev=Info/4      CM/0x63100004
Establish secure connection using Ethernet

4      16:52:27.051 06/18/03 Sev=Info/4      CM/0x63100024
Attempt connection with server "10.1.1.1"

5      16:52:27.101 06/18/03 Sev=Info/6      IKE/0x6300003B
Attempting to establish a connection with 10.1.1.1.

6      16:52:27.481 06/18/03 Sev=Info/4      IKE/0x63000013
SENDING >>> ISAKMP OAK AG (SA, KE, NON, ID, VID, VID, VID, VID, VID)
to 10.1.1.1

7      16:52:27.612 06/18/03 Sev=Info/4      IPSEC/0x63700014
Deleted all keys

8      16:52:27.722 06/18/03 Sev=Info/5      IKE/0x6300002F
Received ISAKMP packet: peer = 10.1.1.1

9      16:52:27.722 06/18/03 Sev=Info/4      IKE/0x63000014
RECEIVING <<< ISAKMP OAK AG (SA, VID, VID, VID, VID, VID, KE, ID, NON, HASH, NAT-D, NAT-D)

```



from 10.1.1.1

10 16:52:27.722 06/18/03 Sev=Info/5 IKE/0x63000059  
Vendor ID payload = 12F5F28C457168A9702D9FE274CC0100

11 16:52:27.722 06/18/03 Sev=Info/5 IKE/0x63000001  
Peer is a Cisco-Unity compliant peer

12 16:52:27.722 06/18/03 Sev=Info/5 IKE/0x63000059  
Vendor ID payload = AFCAD71368A1F1C96B8696FC77570100

13 16:52:27.722 06/18/03 Sev=Info/5 IKE/0x63000001  
Peer supports DPD

14 16:52:27.722 06/18/03 Sev=Info/5 IKE/0x63000059  
Vendor ID payload = 4F6CF9393C7749D894C6C92D2131AE04

15 16:52:27.722 06/18/03 Sev=Info/5 IKE/0x63000059  
Vendor ID payload = 09002689DFD6B712

16 16:52:27.722 06/18/03 Sev=Info/5 IKE/0x63000001  
Peer supports XAUTH

17 16:52:27.722 06/18/03 Sev=Info/5 IKE/0x63000059  
Vendor ID payload = 90CB80913EBB696E086381B5EC427B1F

18 16:52:27.722 06/18/03 Sev=Info/5 IKE/0x63000001  
Peer supports NAT-T

19 16:52:27.782 06/18/03 Sev=Info/4 IKE/0x63000013  
SENDING >>> ISAKMP OAK AG \*(HASH, NOTIFY:STATUS\_INITIAL\_CONTACT, NAT-D, NAT-D)  
to 10.1.1.1

20 16:52:27.822 06/18/03 Sev=Info/5 IKE/0x6300002F  
Received ISAKMP packet: peer = 10.1.1.1

21 16:52:27.822 06/18/03 Sev=Info/4 IKE/0x63000014  
RECEIVING <<< ISAKMP OAK INFO \*(HASH, NOTIFY:STATUS\_RESP\_LIFETIME)  
from 10.1.1.1

22 16:52:27.822 06/18/03 Sev=Info/5 IKE/0x63000044  
RESPONDER-LIFETIME notify has value of 86400 seconds

23 16:52:27.822 06/18/03 Sev=Info/5 IKE/0x63000046  
This SA has already been alive for 0 seconds, setting expiry to 86400 seconds from now

24 16:52:27.842 06/18/03 Sev=Info/5 IKE/0x6300002F  
Received ISAKMP packet: peer = 10.1.1.1

25 16:52:27.842 06/18/03 Sev=Info/4 IKE/0x63000014  
RECEIVING <<< ISAKMP OAK TRANS \*(HASH, ATTR) from 10.1.1.1

26 16:52:27.842 06/18/03 Sev=Info/4 CM/0x63100015  
Launch xAuth application

27 16:52:32.449 06/18/03 Sev=Info/5 IKE/0x6300002F  
Received ISAKMP packet: peer = 10.1.1.1

28 16:52:32.449 06/18/03 Sev=Info/4 IKE/0x63000014  
RECEIVING <<< ISAKMP OAK TRANS \*(Retransmission) from 10.1.1.1

29 16:52:32.809 06/18/03 Sev=Info/4 CM/0x63100017  
xAuth application returned

30 16:52:32.809 06/18/03 Sev=Info/4 IKE/0x63000013  
SENDING >>> ISAKMP OAK TRANS \*(HASH, ATTR) to 10.1.1.1

31 16:52:37.626 06/18/03 Sev=Info/5 IKE/0x6300002F  
Received ISAKMP packet: peer = 10.1.1.1

32 16:52:37.636 06/18/03 Sev=Info/4 IKE/0x63000014  
RECEIVING <<< ISAKMP OAK TRANS \*(HASH, ATTR) from 10.1.1.1

33 16:52:37.636 06/18/03 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

34 16:52:37.636 06/18/03 Sev=Info/4 CM/0x6310000E  
Established Phase 1 SA. 1 Phase 1 SA in the system

35 16:52:37.656 06/18/03 Sev=Info/4 IKE/0x63000013  
SENDING >>> ISAKMP OAK TRANS \*(HASH, ATTR) to 10.1.1.1

36 16:52:37.987 06/18/03 Sev=Info/5 IKE/0x6300005D  
Client sending a firewall request to concentrator

37 16:52:37.987 06/18/03 Sev=Info/5 IKE/0x6300005C  
Firewall Policy: Product=Cisco Integrated Client, Capability=  
(Centralized Protection Policy).

38 16:52:38.007 06/18/03 Sev=Info/4 IKE/0x63000013  
SENDING >>> ISAKMP OAK TRANS \*(HASH, ATTR) to 10.1.1.1

39 16:52:38.087 06/18/03 Sev=Info/5 IKE/0x6300002F  
Received ISAKMP packet: peer = 10.1.1.1

40 16:52:38.087 06/18/03 Sev=Info/4 IKE/0x63000014  
RECEIVING <<< ISAKMP OAK TRANS \*(HASH, ATTR) from 10.1.1.1

41 16:52:38.097 06/18/03 Sev=Info/5 IKE/0x63000010  
MODE\_CFG\_REPLY: Attribute = INTERNAL\_IPV4\_ADDRESS: , value = 10.16.20.1

42 16:52:38.097 06/18/03 Sev=Info/5 IKE/0x63000010  
MODE\_CFG\_REPLY: Attribute = INTERNAL\_IPV4\_DNS(1): , value = 10.1.1.10

43 16:52:38.097 06/18/03 Sev=Info/5 IKE/0x63000010  
MODE\_CFG\_REPLY: Attribute = INTERNAL\_IPV4\_NBNS(1) (a.k.a. WINS) : , value = 10.1.1.20

44 16:52:38.097 06/18/03 Sev=Info/5 IKE/0xA3000017  
MODE\_CFG\_REPLY: The received (INTERNAL\_ADDRESS\_EXPIRY) attribute and value (86388)  
is not supported

45 16:52:38.097 06/18/03 Sev=Info/5 IKE/0x6300000E  
MODE\_CFG\_REPLY: Attribute = APPLICATION\_VERSION, value = Cisco Internetwork  
Operating System Software IOS (tm) C2600 Software (C2600-IK9S-M), Version 12.2(15)T2,  
RELEASE SOFTWARE (fc2)  
TAC Support: <http://www.cisco.com/tac>  
Copyright (c) 1986-2003 by cisco Systems, Inc.  
Compiled Thu 01-May-03 10:39 by nmasa

46 16:52:38.097 06/18/03 Sev=Info/5 IKE/0x6300000E  
MODE\_CFG\_REPLY: Attribute = MODECFG\_UNITY\_DEFDOMAIN: , value = cisco.com

47 16:52:38.097 06/18/03 Sev=Info/5 IKE/0x6300000D  
MODE\_CFG\_REPLY: Attribute = MODECFG\_UNITY\_SPLIT\_INCLUDE (# of split\_nets),  
value = 0x00000001

48 16:52:38.097 06/18/03 Sev=Info/5 IKE/0x6300000F  
SPLIT\_NET #1  
subnet = 172.18.124.0  
mask = 255.255.255.0  
protocol = 0  
src port = 0  
dest port=0

49 16:52:38.097 06/18/03 Sev=Info/4 CM/0x63100019  
Mode Config data received

50 16:52:38.347 06/18/03 Sev=Info/5 IKE/0x63000055  
Received a key request from Driver for IP address 10.1.1.1,  
GW IP = 10.1.1.1

51 16:52:38.347 06/18/03 Sev=Info/4 IKE/0x63000013  
SENDING >>> ISAKMP OAK QM \*(HASH, SA, NON, ID, ID) to 10.1.1.1

52 16:52:38.728 06/18/03 Sev=Info/5 IKE/0x6300002F  
Received ISAKMP packet: peer = 10.1.1.1

53 16:52:38.728 06/18/03 Sev=Info/4 IKE/0x63000014  
RECEIVING <<< ISAKMP OAK QM \*(HASH, SA, NON, ID, ID, NOTIFY:STATUS\_RESP\_LIFETIME)  
from 10.1.1.1

54 16:52:38.738 06/18/03 Sev=Info/5 IKE/0x63000044  
RESPONDER-LIFETIME notify has value of 3600 seconds

55 16:52:38.738 06/18/03 Sev=Info/5 IKE/0x63000045  
RESPONDER-LIFETIME notify has value of 4608000 kb

56 16:52:38.738 06/18/03 Sev=Info/4 IKE/0x63000013  
SENDING >>> ISAKMP OAK QM \*(HASH) to 10.1.1.1

57 16:52:38.738 06/18/03 Sev=Info/5 IKE/0x63000058  
Loading IPsec SA (Message ID = 0x7AB5F1A7 OUTBOUND SPI = 0xC0BE2FC6  
INBOUND SPI = 0x56FFC535)

58 16:52:38.788 06/18/03 Sev=Info/5 IKE/0x63000025  
Loaded OUTBOUND ESP SPI: 0xC0BE2FC6

59 16:52:38.798 06/18/03 Sev=Info/5 IKE/0x63000026  
Loaded INBOUND ESP SPI: 0x56FFC535

60 16:52:38.798 06/18/03 Sev=Info/4 CM/0x6310001A  
One secure connection established

61 16:52:38.828 06/18/03 Sev=Info/6 DIALER/0x63300003  
Connection established.

62 16:52:38.868 06/18/03 Sev=Info/6 CVPND/0x63400011  
Found matching adapter

63 16:52:38.968 06/18/03 Sev=Info/6 CVPND/0x63400011  
Found matching adapter

64 16:52:39.819 06/18/03 Sev=Info/4 CM/0x63100037  
Address watch added for 10.0.0.1. Current address(es): 10.0.0.1.

65 16:52:40.280 06/18/03 Sev=Info/4 IPSEC/0x63700014  
Deleted all keys

66 16:52:40.280 06/18/03 Sev=Info/4 IPSEC/0x63700010  
Created a new key structure

67 16:52:40.290 06/18/03 Sev=Info/4 IPSEC/0x6370000F  
Added key with SPI=0xc62fbec0 into key list

68 16:52:40.290 06/18/03 Sev=Info/4 IPSEC/0x63700010  
Created a new key structure

69 16:52:40.290 06/18/03 Sev=Info/4 IPSEC/0x6370000F  
Added key with SPI=0x35c5ff56 into key list

70 16:52:41.562 06/18/03 Sev=Info/6 DIALER/0x63300008  
MAPI32 Information - Outlook not default mail client

71 16:52:54.230 06/18/03 Sev=Info/5 IKE/0x63000055  
Received a key request from Driver for IP address 1.1.1.2, GW IP = 10.1.1.1

72 16:52:54.250 06/18/03 Sev=Info/4 IKE/0x63000013  
SENDING >>> ISAKMP OAK QM \*(HASH, SA, NON, ID, ID) to 10.1.1.1

73 16:52:54.731 06/18/03 Sev=Info/5 IKE/0x6300002F  
Received ISAKMP packet: peer = 10.1.1.1

74 16:52:54.731 06/18/03 Sev=Info/4 IKE/0x63000014  
RECEIVING <<< ISAKMP OAK QM \*(HASH, SA, NON, ID, ID, NOTIFY:STATUS\_RESP\_LIFETIME)  
from 10.1.1.1

75 16:52:54.741 06/18/03 Sev=Info/5 IKE/0x63000044  
RESPONDER-LIFETIME notify has value of 3600 seconds

76 16:52:54.741 06/18/03 Sev=Info/5 IKE/0x63000045  
RESPONDER-LIFETIME notify has value of 4608000 kb

77 16:52:54.741 06/18/03 Sev=Info/4 IKE/0x63000013  
SENDING >>> ISAKMP OAK QM \*(HASH) to 10.1.1.1

78 16:52:54.741 06/18/03 Sev=Info/5 IKE/0x63000058  
Loading IPsec SA (Message ID = 0x41A55AFF OUTBOUND SPI = 0xCCEDA620  
INBOUND SPI = 0x0C5B3DB2)

79 16:52:54.771 06/18/03 Sev=Info/5 IKE/0x63000025  
Loaded OUTBOUND ESP SPI: 0xCCEDA620

80 16:52:54.781 06/18/03 Sev=Info/5 IKE/0x63000026  
Loaded INBOUND ESP SPI: 0x0C5B3DB2

81 16:52:54.781 06/18/03 Sev=Info/4 CM/0x63100021  
Additional Phase 2 SA established.

82 16:52:55.472 06/18/03 Sev=Info/4 IPSEC/0x63700010  
Created a new key structure

83 16:52:55.472 06/18/03 Sev=Info/4 IPSEC/0x6370000F  
Added key with SPI=0x20a6edcc into key list

84 16:52:55.472 06/18/03 Sev=Info/4 IPSEC/0x63700010  
Created a new key structure

85 16:52:55.472 06/18/03 Sev=Info/4 IPSEC/0x6370000F  
Added key with SPI=0xb23d5b0c into key list

86 16:52:55.472 06/18/03 Sev=Info/4 IPSEC/0x63700019  
Activate outbound key with SPI=0x20a6edcc for inbound key with SPI=0xb23d5b0c

## [Informações Relacionadas](#)

- [Página de suporte de tecnologia RADIUS](#)
- [Página de Suporte de Negociação IPSec/Protocolos IKE](#)
- [Página de Suporte do Cisco VPN Client](#)
- [Request For Comments \(RFC\)](#)
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