Configuring an IPSec Tunnel Between a Cisco VPN Client for Linux and a VPN 3000 Concentrator

Document ID: 22185

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Introduction

This document describes how to form an IPSec tunnel from a Linux−based PC running the Cisco VPN Client to a Cisco VPN 3000 Series Concentrator so that you can access the network inside the concentrator securely.

Before You Begin

Conventions

For more information on document conventions, see the Cisco Technical Tips Conventions.

Prerequisites

This document uses these configurations:

- Configuring the VPN 3000 Concentrator
- Configuring the Linux Client

Components Used

The information in this document is based on these software and hardware versions:

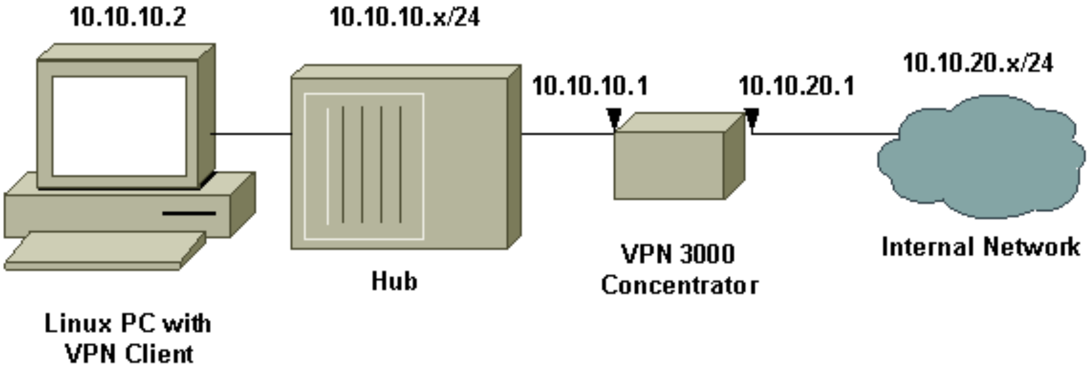
- Cisco VPN 3000 Concentrator version 3.x
- Cisco VPN Client version 3.0.8
- Red Hat Linux® version 7.2 with 2.4.7−10 Kernel

Note: Support for RedHat8 is available in VPN Client versions 3.6.2a and above. Registered customers can obtain specific information by researching bug ID CSCdy49082 (registered customers only) .

The information presented in this document was created from devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If you are working in a live network, ensure that you understand the potential impact of any command before using it.

Network Diagram

This document uses the network setup shown in the diagram below.



Configurations

Task

In this section, you are presented with the information to configure the features described in this document.

Configuring the VPN 3000 Concentrator

Use the following steps to configure the VPN 3000 Concentrator.

1. Connect to the VPN Concentrator console port and verify that there are IP addresses assigned to the private (inside) and public (outside) interfaces. Also verify that there is a default gateway assigned so that the concentrator can forward the packets for the destinations that it does not know about to the default gateway.

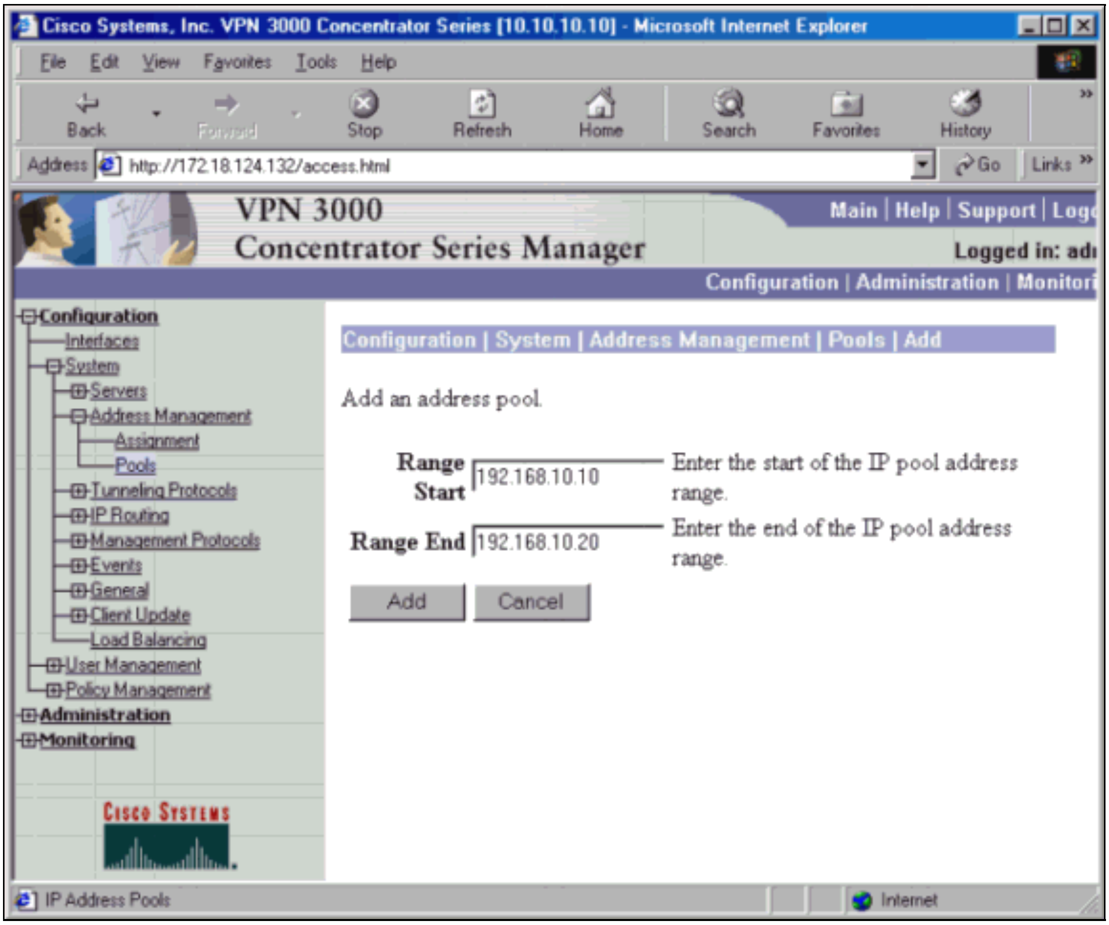
   Note: The default is normally the Internet Gateway Router.

   ```
   1) Configuration
   2) Administration
   3) Monitoring
   4) Save changes to Config file
   5) Help Information
   6) Exit

   Main -> 1

   1) Interface Configuration
   2) System Management
   3) User Management
   4) Policy Management
   5) Back

   Config -> 1
   ```

This table shows current IP addresses.

```
      Interface            IP Address/Subnet Mask      MAC Address
-----------------------------------------------------------------------
| Ethernet 1 - Private  | 10.10.20.1/255.255.255.0 | 00.90.A4.00.16.54
| Ethernet 2 - Public   | 10.10.10.1/255.255.255.0 | 00.90.A4.00.16.55
| Ethernet 3 - External |  0.0.0.0/0.0.0.0         |
-----------------------------------------------------------------------

1) Configure Ethernet #1 (Private)
2) Configure Ethernet #2 (Public)
3) Configure Ethernet #3 (External)
4) Configure Power Supplies
5) Configure Expansion Cards
6) Back

Interfaces -> 6

1) Interface Configuration
2) System Management
3) User Management
4) Policy Management
5) Back

Config -> 2

1) Servers (Authentication, Accounting, etc.)
2) Address Management
3) Tunneling Protocols (PPTP, L2TP, etc.)
4) IP Routing (static routes, OSPF, etc.)
5) Management Protocols (Telnet, TFTP, FTP, etc.)
6) Event Configuration
7) General Config (system name, time, etc.)
8) Back

System -> 4

1) Static Routes
2) Default Gateways
3) OSPF
4) OSPF Areas
5) DHCP
6) Redundancy
7) Back

Routing -> 1

Static Routes
-------------
Destination     Mask            Metric Destination
------------------------------------------------------------
0.0.0.0         0.0.0.0              1 10.10.10.1

1) Add Static Route
2) Modify Static Route
3) Delete Static Route
4) Back
```

2. To assign an available range of IP addresses, point a browser to the inside interface of the VPN 3000 Concentrator and go to **Configuration** > **System** > **Address Management** > **Pools** > **Add**. Specify a range of IP addresses that do not conflict with any other devices on the inside network.


Cisco Systems, Inc. VPN 3000 Concentrator Series [10.10.10.10] - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History
Address http://172.18.124.132/access.html
Go Links
VPN 3000
Concentrator Series Manager
Main | Help | Support | Log
Logged in: adı
Configuration | Administration | Monitori
Configuration
Interfaces
System
Servers
Address Management
Assignment
Pools
Tunneling Protocols
IP Routing
Management Protocols
Events
General
Client Update
Load Balancing
User Management
Policy Management
Administration
Monitoring
Cisco Systems
IP Address Pools
Internet

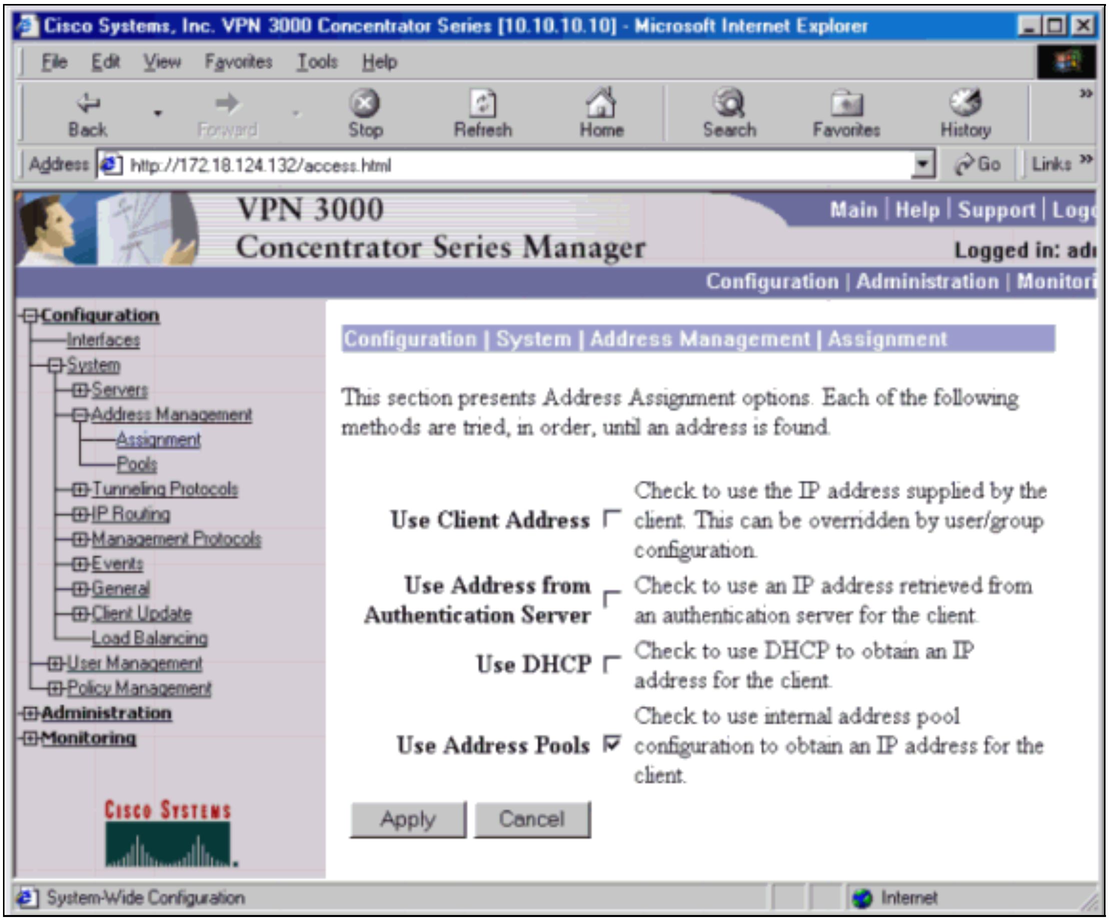
Configuration | System | Address Management | Pools | Add

Add an address pool.

Range Start	192.168.10.10	Enter the start of the IP pool address range.
Range End	192.168.10.20	Enter the end of the IP pool address range.

Add Cancel

3. To tell the VPN Concentrator to use the pool, go to **Configuration > System > Address Management > Assignment**, and check the **Use Address Pools** box.



Cisco Systems, Inc. VPN 3000 Concentrator Series [10.10.10.10] - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History
Address http://172.18.124.132/access.html
Go Links
VPN 3000
Concentrator Series Manager
Main | Help | Support | Log
Logged in: adı
Configuration | Administration | Monitori
Configuration
Interfaces
System
Servers
Address Management
Assignment
Pools
Tunneling Protocols
IP Routing
Management Protocols
Events
General
Client Update
Load Balancing
User Management
Policy Management
Administration
Monitoring
Cisco Systems
System-Wide Configuration
Internet

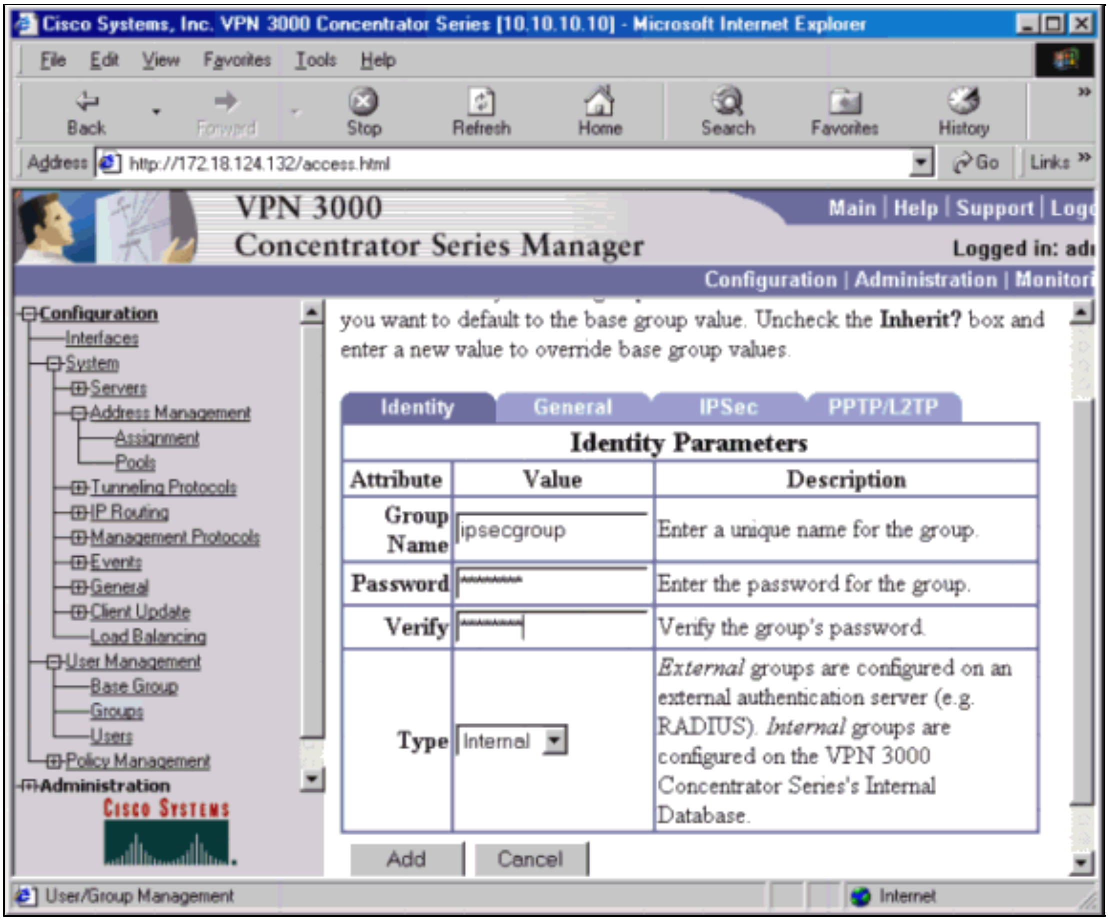
Configuration | System | Address Management | Assignment

This section presents Address Assignment options. Each of the following methods are tried, in order, until an address is found.

Use Client Address	□	Check to use the IP address supplied by the client. This can be overridden by user/group configuration.
Use Address from Authentication Server	□	Check to use an IP address retrieved from an authentication server for the client.
Use DHCP	□	Check to use DHCP to obtain an IP address for the client.
Use Address Pools	☑	Check to use internal address pool configuration to obtain an IP address for the client.

Apply Cancel

4. Configure an IPSec group for the users by going to **Configuration** > **User Management** > **Groups** > **Add** and defining a group name and password. The example below uses group name "ipsecgroup" with the password/verify as "cisco123."

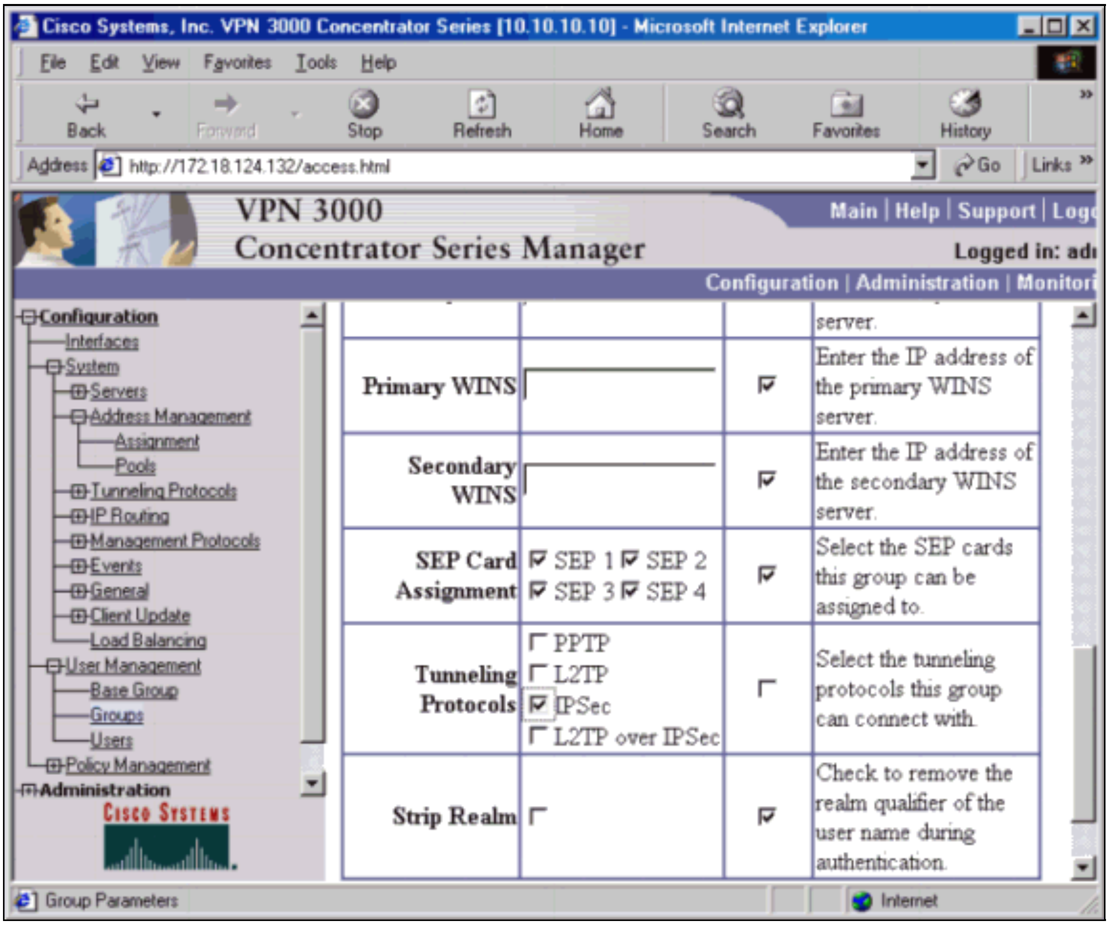

Cisco Systems, Inc. VPN 3000 Concentrator Series [10.10.10.10] - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History
Address http://172.18.124.132/access.html Go Links
VPN 3000
Concentrator Series Manager
Main | Help | Support | Logo
Logged in: adı
Configuration | Administration | Monitori
Configuration
Interfaces
System
Servers
Address Management
Assignment
Pools
Tunneling Protocols
IP Routing
Management Protocols
Events
General
Client Update
Load Balancing
User Management
Base Group
Groups
Users
Policy Management
Administration
Cisco Systems
Identity
General
IPSec
PPTP/L2TP
Add
Cancel
User/Group Management
Internet

you want to default to the base group value. Uncheck the **Inherit?** box and enter a new value to override base group values.

Identity Parameters

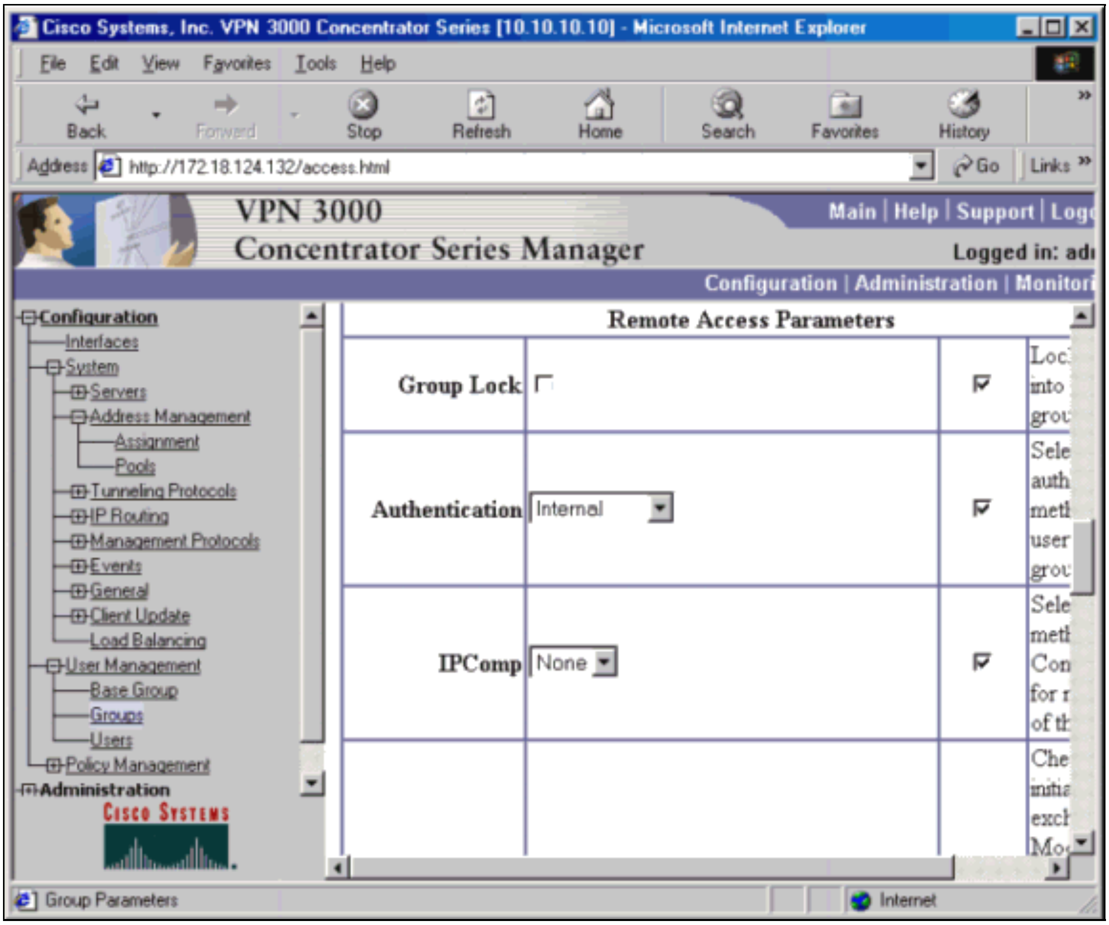
Attribute	Value	Description
Group Name	ipsecgroup	Enter a unique name for the group.
Password	********	Enter the password for the group.
Verify	********	Verify the group's password.
Type	Internal	*External* groups are configured on an external authentication server (e.g. RADIUS). *Internal* groups are configured on the VPN 3000 Concentrator Series's Internal Database.

5. On the Groups General tab, select **IPSec**.


Cisco Systems, Inc. VPN 3000 Concentrator Series [10.10.10.10] - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History
Address http://172.18.124.132/access.html Go Links
VPN 3000
Concentrator Series Manager
Main | Help | Support | Logo
Logged in: adı
Configuration | Administration | Monitori
Configuration
Interfaces
System
Servers
Address Management
Assignment
Pools
Tunneling Protocols
IP Routing
Management Protocols
Events
General
Client Update
Load Balancing
User Management
Base Group
Groups
Users
Policy Management
Administration
Cisco Systems
Group Parameters
Internet

			server.
Primary WINS		☑	Enter the IP address of the primary WINS server.
Secondary WINS		☑	Enter the IP address of the secondary WINS server.
SEP Card Assignment	☑ SEP 1 ☑ SEP 2 ☑ SEP 3 ☑ SEP 4	☑	Select the SEP cards this group can be assigned to.
Tunneling Protocols	☐ PPTP ☐ L2TP ☑ IPSec ☐ L2TP over IPSec	☐	Select the tunneling protocols this group can connect with.
Strip Realm	☐	☑	Check to remove the realm qualifier of the user name during authentication.

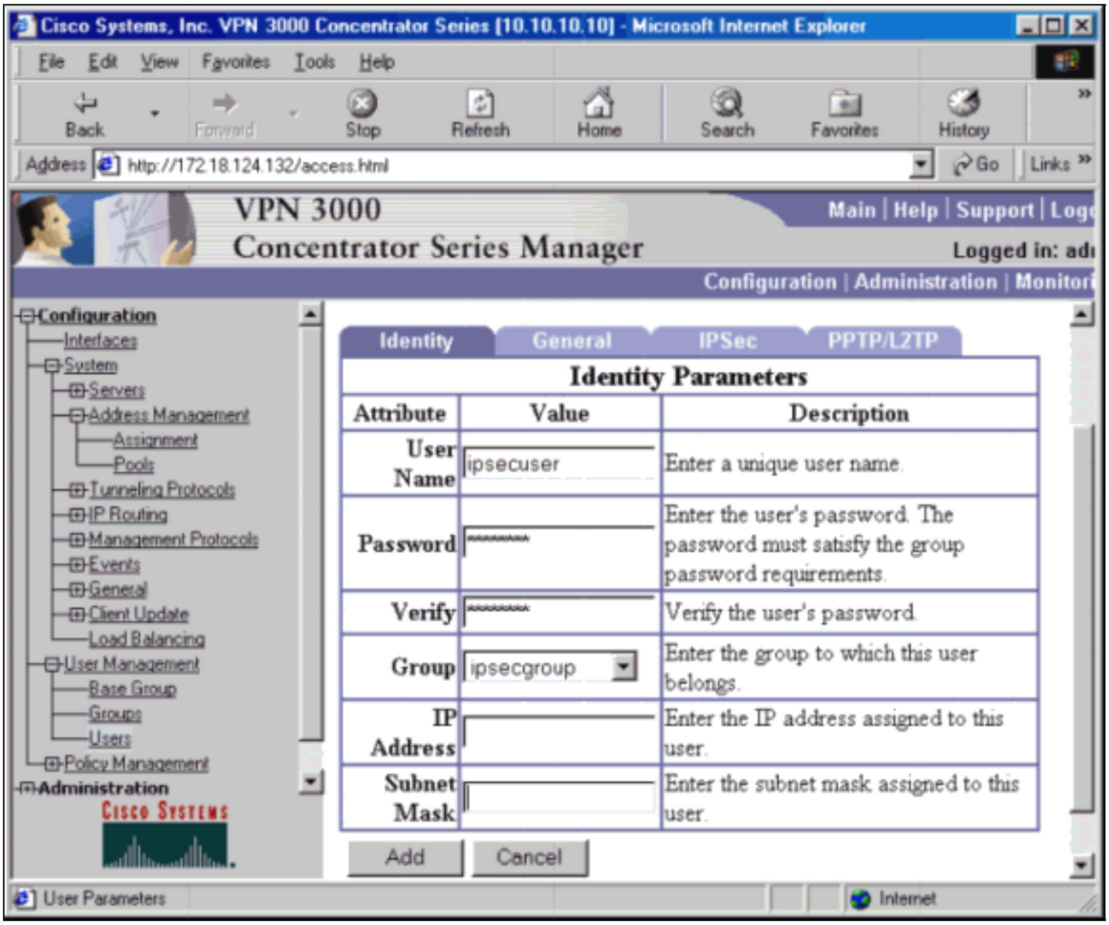
6. On the Groups IPSec tab, set the authentication to **Internal**.



Remote Access Parameters

Group Lock	☐	☑	Loc into grou
Authentication	Internal	☑	Sele auth metl user grou
IPComp	None	☑	Sele metl Con for r of tl
			Che initia excl Mo

7. Go to **Configuration** > **User Management** > **Users** > **Add**, and add a user to the previously defined group. In the example below, the user is "ipsecuser" with the password "xyz12345" in the group "ipsecgroup."



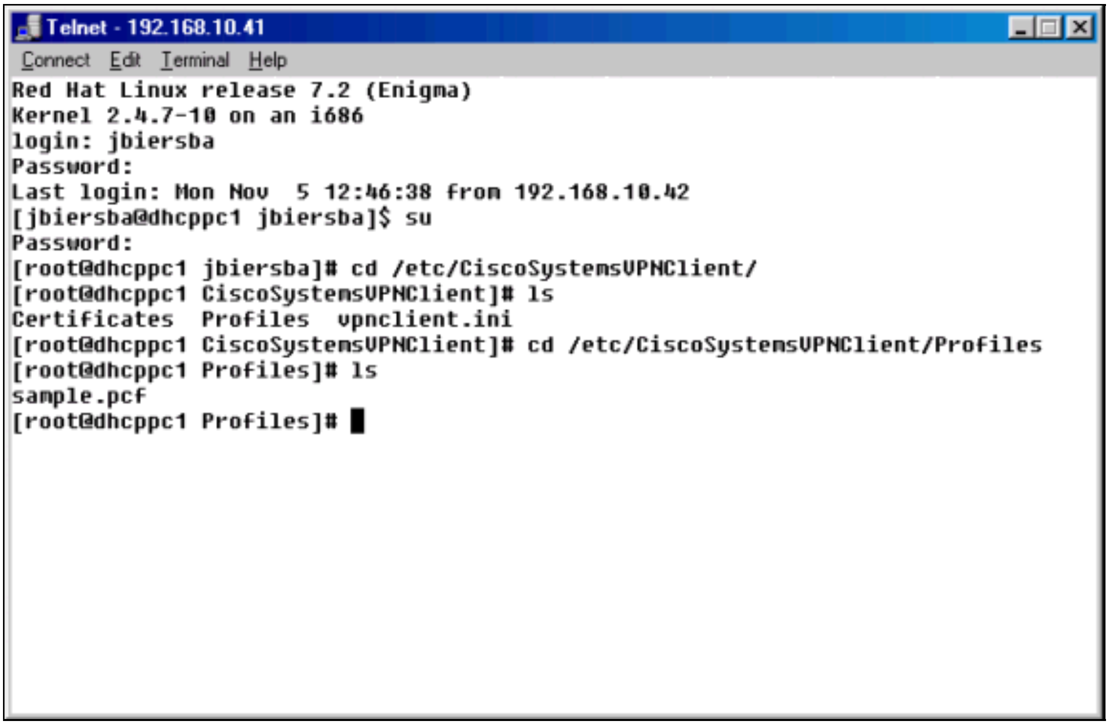
Identity Parameters

Attribute	Value	Description
User Name	ipsecuser	Enter a unique user name.
Password	********	Enter the user's password. The password must satisfy the group password requirements.
Verify	********	Verify the user's password.
Group	ipsecgroup	Enter the group to which this user belongs.
IP Address		Enter the IP address assigned to this user.
Subnet Mask		Enter the subnet mask assigned to this user.

Configuring the Linux Client

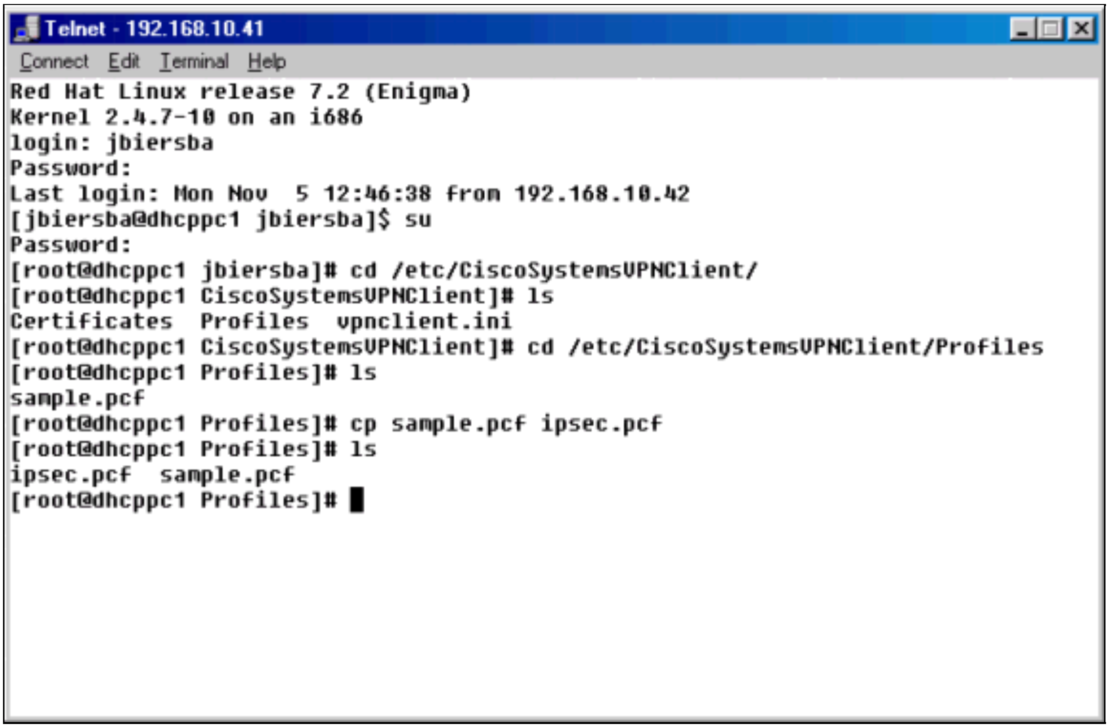
Follow these steps:

1. Navigate to the /etc/CiscoSystemsVPNClient/Profiles directory where VPN connection profiles are stored.



```
Red Hat Linux release 7.2 (Enigma)
Kernel 2.4.7-10 on an i686
login: jbiersba
Password:
Last login: Mon Nov  5 12:46:38 from 192.168.10.42
[jbiersba@dhcppc1 jbiersba]$ su
Password:
[root@dhcppc1 jbiersba]# cd /etc/CiscoSystemsVPNClient/
[root@dhcppc1 CiscoSystemsVPNClient]# ls
Certificates  Profiles  vpnclient.ini
[root@dhcppc1 CiscoSystemsVPNClient]# cd /etc/CiscoSystemsVPNClient/Profiles
[root@dhcppc1 Profiles]# ls
sample.pcf
[root@dhcppc1 Profiles]# 
```

2. Open a new profile file by either copying the sample profile to a new name or by creating one from scratch. In the example below, the sample .pcf file was copied, renamed, and edited.

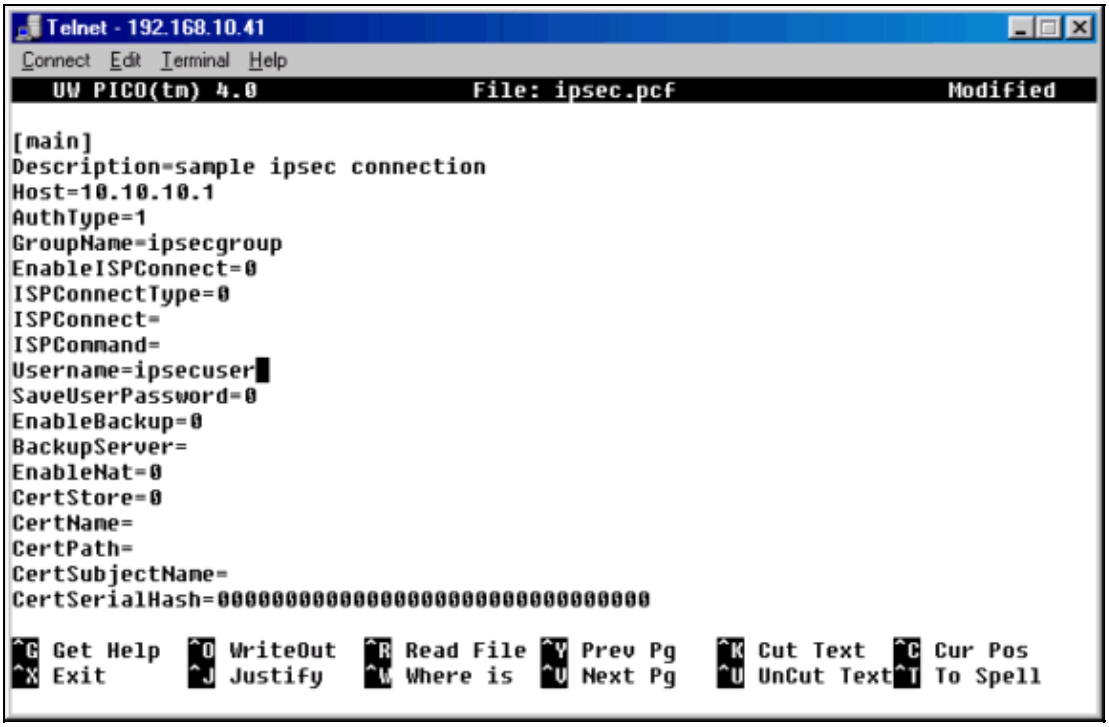


```
Red Hat Linux release 7.2 (Enigma)
Kernel 2.4.7-10 on an i686
login: jbiersba
Password:
Last login: Mon Nov  5 12:46:38 from 192.168.10.42
[jbiersba@dhcppc1 jbiersba]$ su
Password:
[root@dhcppc1 jbiersba]# cd /etc/CiscoSystemsVPNClient/
[root@dhcppc1 CiscoSystemsVPNClient]# ls
Certificates  Profiles  vpnclient.ini
[root@dhcppc1 CiscoSystemsVPNClient]# cd /etc/CiscoSystemsVPNClient/Profiles
[root@dhcppc1 Profiles]# ls
sample.pcf
[root@dhcppc1 Profiles]# cp sample.pcf ipsec.pcf
[root@dhcppc1 Profiles]# ls
ipsec.pcf  sample.pcf
[root@dhcppc1 Profiles]# 
```

3. Edit the newly named .pcf file to include the following information.

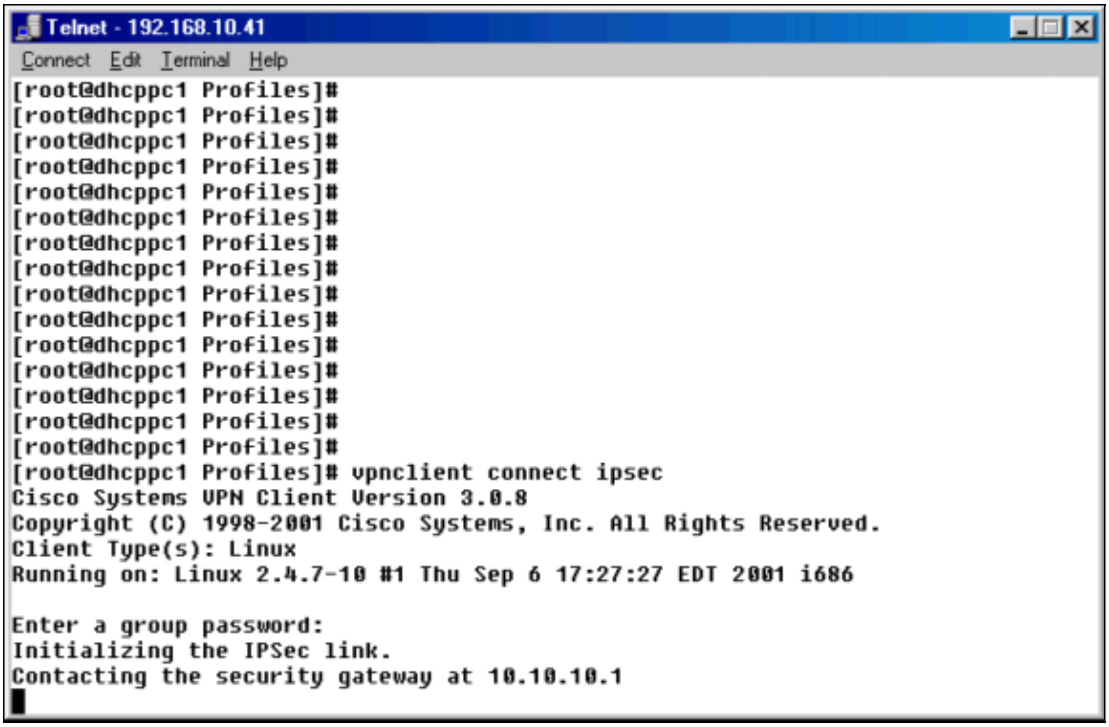
   - A new description that will identify the connection
   - A new host IP address that will be the IP address of the public interface of the VPN 3000 Concentrator
   - A new group name that will need to match the group configured in the VPN 3000 group setup
   - A new user name which is the same user name that is configured on the VPN 3000 Concentrator that coincides with the VPN Group on the concentrator

   Save the file and exit.



```
  UW PICO(tm) 4.0                 File: ipsec.pcf                    Modified

[main]
Description=sample ipsec connection
Host=10.10.10.1
AuthType=1
GroupName=ipsecgroup
EnableISPConnect=0
ISPConnectType=0
ISPConnect=
ISPCommand=
Username=ipsecuser
SaveUserPassword=0
EnableBackup=0
BackupServer=
EnableNat=0
CertStore=0
CertName=
CertPath=
CertSubjectName=
CertSerialHash=00000000000000000000000000000000

^G Get Help   ^O WriteOut   ^R Read File  ^Y Prev Pg    ^K Cut Text   ^C Cur Pos
^X Exit       ^J Justify    ^W Where is   ^V Next Pg    ^U UnCut Text ^T To Spell
```

4. From the command prompt, use the **vpnclient connect ipsec** command to connect to the VPN Concentrator using the IPSec .pcf file. You will be prompted to enter the group password. This is the same password that was configured on the VPN 3000 Concentrator (password "xyz12345", in this example).



```
[root@dhcppc1 Profiles]#
[root@dhcppc1 Profiles]#
[root@dhcppc1 Profiles]#
[root@dhcppc1 Profiles]#
[root@dhcppc1 Profiles]#
[root@dhcppc1 Profiles]#
[root@dhcppc1 Profiles]#
[root@dhcppc1 Profiles]#
[root@dhcppc1 Profiles]#
[root@dhcppc1 Profiles]#
[root@dhcppc1 Profiles]#
[root@dhcppc1 Profiles]#
[root@dhcppc1 Profiles]#
[root@dhcppc1 Profiles]#
[root@dhcppc1 Profiles]#
[root@dhcppc1 Profiles]# vpnclient connect ipsec
Cisco Systems VPN Client Version 3.0.8
Copyright (C) 1998-2001 Cisco Systems, Inc. All Rights Reserved.
Client Type(s): Linux
Running on: Linux 2.4.7-10 #1 Thu Sep 6 17:27:27 EDT 2001 i686

Enter a group password:
Initializing the IPSec link.
Contacting the security gateway at 10.10.10.1
```

5. If the connection is not successful, please see the Troubleshooting section below.

Verify

There is currently no verification procedure available for this configuration.

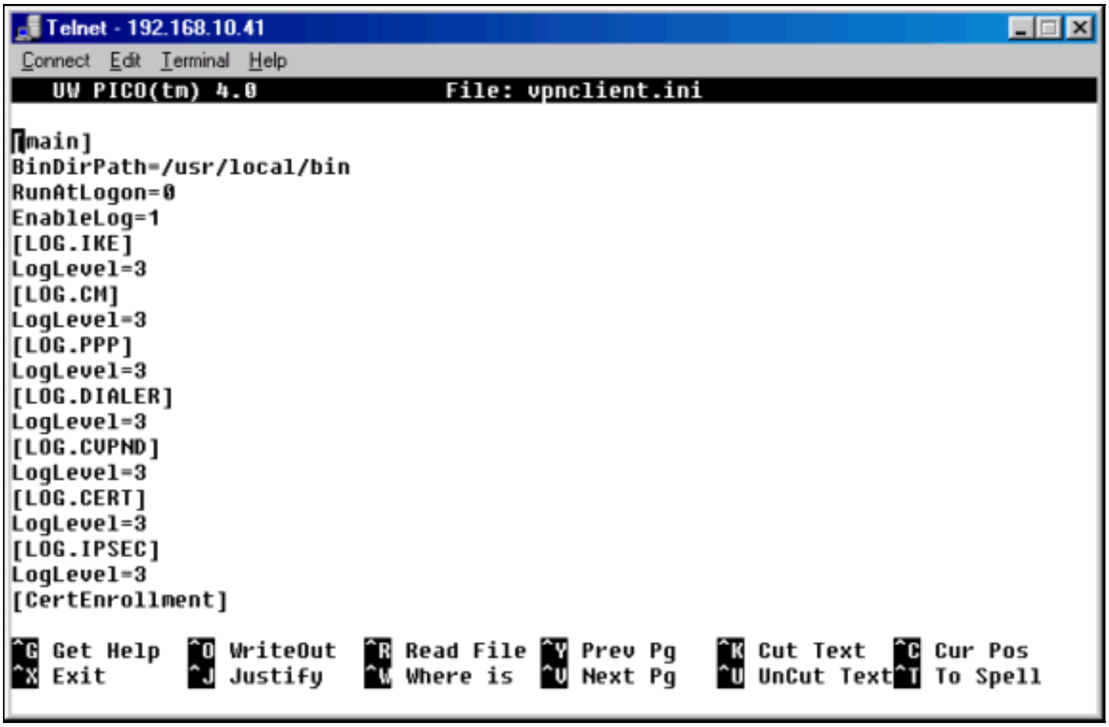
Troubleshoot

This section provides information you can use to troubleshoot your configuration.

Turning on Logging on the VPN Client

Below is troubleshooting information relevant to this configuration. Follow the instructions below to troubleshoot your configuration.

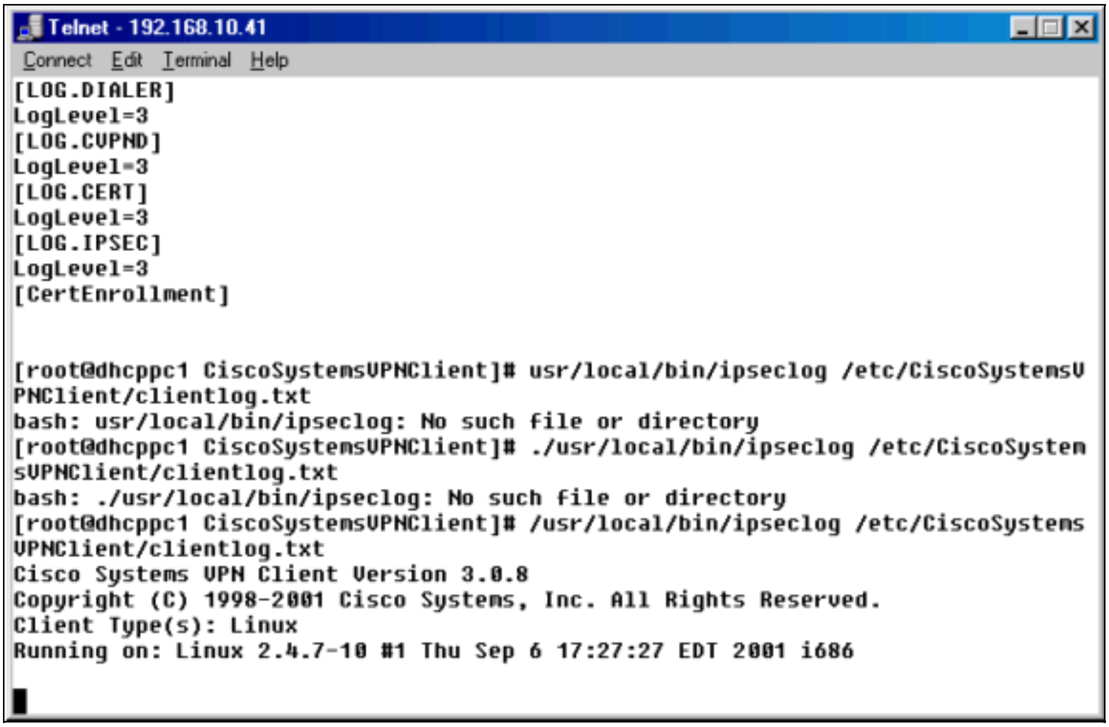
1. Create a global profile, if one does not already exist in the /etc/CiscoSystemsVPNClient/ directory. The global profile should look like the example below.



```
  UW PICO(tm) 4.0              File: vpnclient.ini

[main]
BinDirPath=/usr/local/bin
RunAtLogon=0
EnableLog=1
[LOG.IKE]
LogLevel=3
[LOG.CM]
LogLevel=3
[LOG.PPP]
LogLevel=3
[LOG.DIALER]
LogLevel=3
[LOG.CVPND]
LogLevel=3
[LOG.CERT]
LogLevel=3
[LOG.IPSEC]
LogLevel=3
[CertEnrollment]

^G Get Help  ^O WriteOut  ^R Read File ^Y Prev Pg   ^K Cut Text  ^C Cur Pos
^X Exit      ^J Justify   ^W Where is  ^V Next Pg   ^U UnCut Text^T To Spell
```

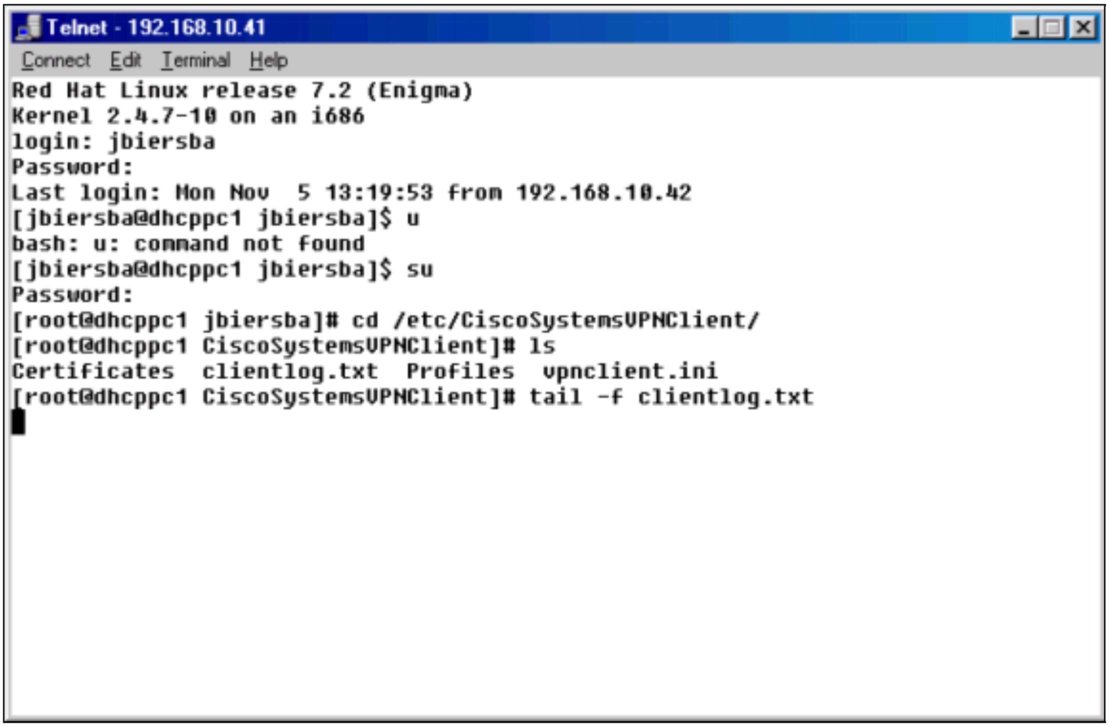
Note: Verify that each one of the log levels is set to "3"; this will ensure that the highest level of logging can be achieved.

2. From the command prompt, use the **/usr/local/bin/ipseclog** command to start the IPSec log utility and to move the information in that log to a directory and file of your choice. In this example the file is named clientlog.txt, and it is in the /etc/CiscoSystemsVPNClient directory:



```
[LOG.DIALER]
LogLevel=3
[LOG.CVPND]
LogLevel=3
[LOG.CERT]
LogLevel=3
[LOG.IPSEC]
LogLevel=3
[CertEnrollment]


[root@dhcppc1 CiscoSystemsVPNClient]# usr/local/bin/ipseclog /etc/CiscoSystemsV
PNClient/clientlog.txt
bash: usr/local/bin/ipseclog: No such file or directory
[root@dhcppc1 CiscoSystemsVPNClient]# ./usr/local/bin/ipseclog /etc/CiscoSystem
sVPNClient/clientlog.txt
bash: ./usr/local/bin/ipseclog: No such file or directory
[root@dhcppc1 CiscoSystemsVPNClient]# /usr/local/bin/ipseclog /etc/CiscoSystems
VPNClient/clientlog.txt
Cisco Systems VPN Client Version 3.0.8
Copyright (C) 1998-2001 Cisco Systems, Inc. All Rights Reserved.
Client Type(s): Linux
Running on: Linux 2.4.7-10 #1 Thu Sep 6 17:27:27 EDT 2001 i686
```

3. In a separate window, use the **tail −f** (for filename) command to get a constantly updated snapshot of the clientlog.txt file while you are connecting to gather debug information.



```
Red Hat Linux release 7.2 (Enigma)
Kernel 2.4.7-10 on an i686
login: jbiersba
Password:
Last login: Mon Nov  5 13:19:53 from 192.168.10.42
[jbiersba@dhcppc1 jbiersba]$ u
bash: u: command not found
[jbiersba@dhcppc1 jbiersba]$ su
Password:
[root@dhcppc1 jbiersba]# cd /etc/CiscoSystemsVPNClient/
[root@dhcppc1 CiscoSystemsVPNClient]# ls
Certificates  clientlog.txt  Profiles  vpnclient.ini
[root@dhcppc1 CiscoSystemsVPNClient]# tail -f clientlog.txt
```

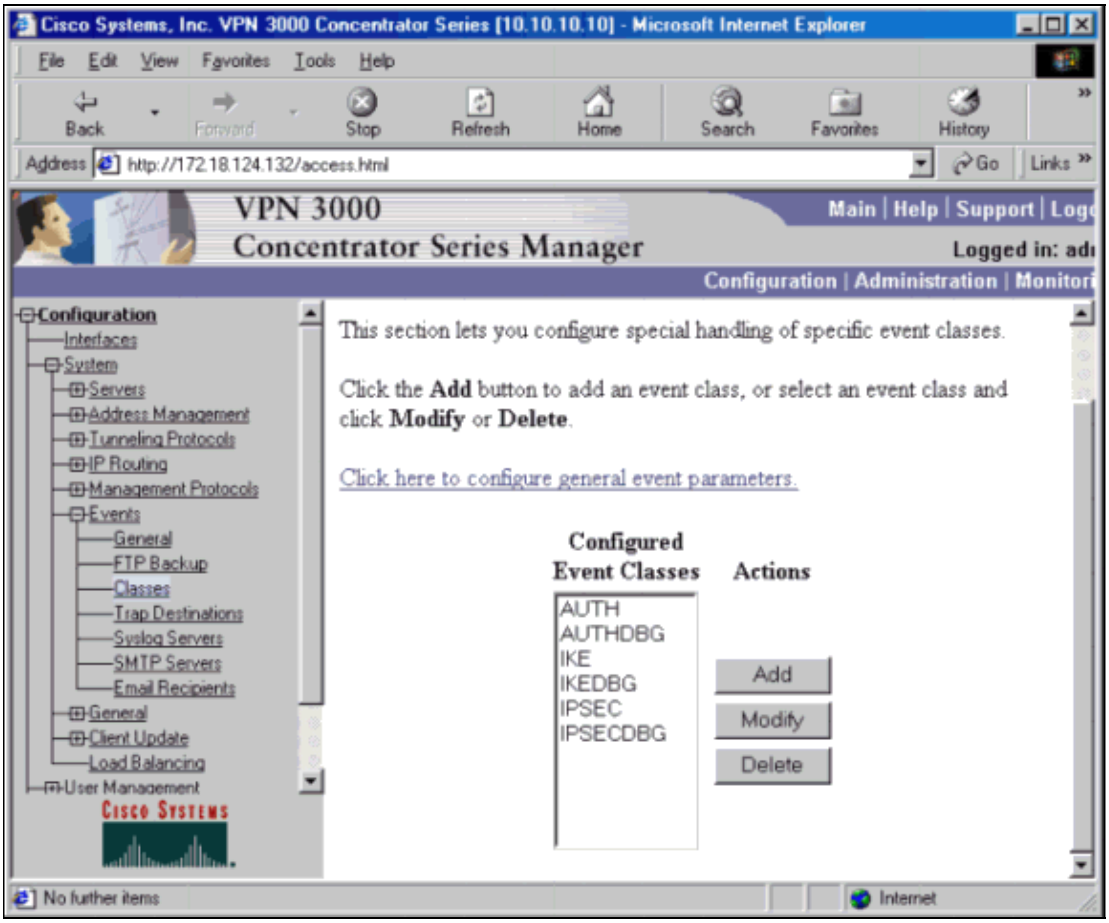
Turning on Logging on the VPN 3000 Concentrator

Follow the instructions below to troubleshoot your configuration.

1. Go to **Configuration** > **System** > **Events** > **Classes** to turn on the following debug if there are event connection failures.
    - AUTH − Severity to log 1−13
    - AUTHDBG − Severity to log 1−13

- ♦ IKE − Severity to log 1−13
- ♦ IKEDBG − Severity to log 1−13
- ♦ IPSEC − Severity to log 1−13
- ♦ IPSECDBG − Severity to log 1−13

Note: If necessary, AUTHDECODE, IKEDECODE, and IPSECDECODE can be added later.


Cisco Systems, Inc. VPN 3000 Concentrator Series [10.10.10.10] - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History
Address http://172.18.124.132/access.html
Go Links
VPN 3000
Concentrator Series Manager
Main | Help | Support | Log
Logged in: ad
Configuration | Administration | Monitor
Configuration
Interfaces
System
Servers
Address Management
Tunneling Protocols
IP Routing
Management Protocols
Events
General
FTP Backup
Classes
Trap Destinations
Syslog Servers
SMTP Servers
Email Recipients
General
Client Update
Load Balancing
User Management
Cisco Systems
No further items
Internet

This section lets you configure special handling of specific event classes.

Click the **Add** button to add an event class, or select an event class and click **Modify** or **Delete**.

Click here to configure general event parameters.

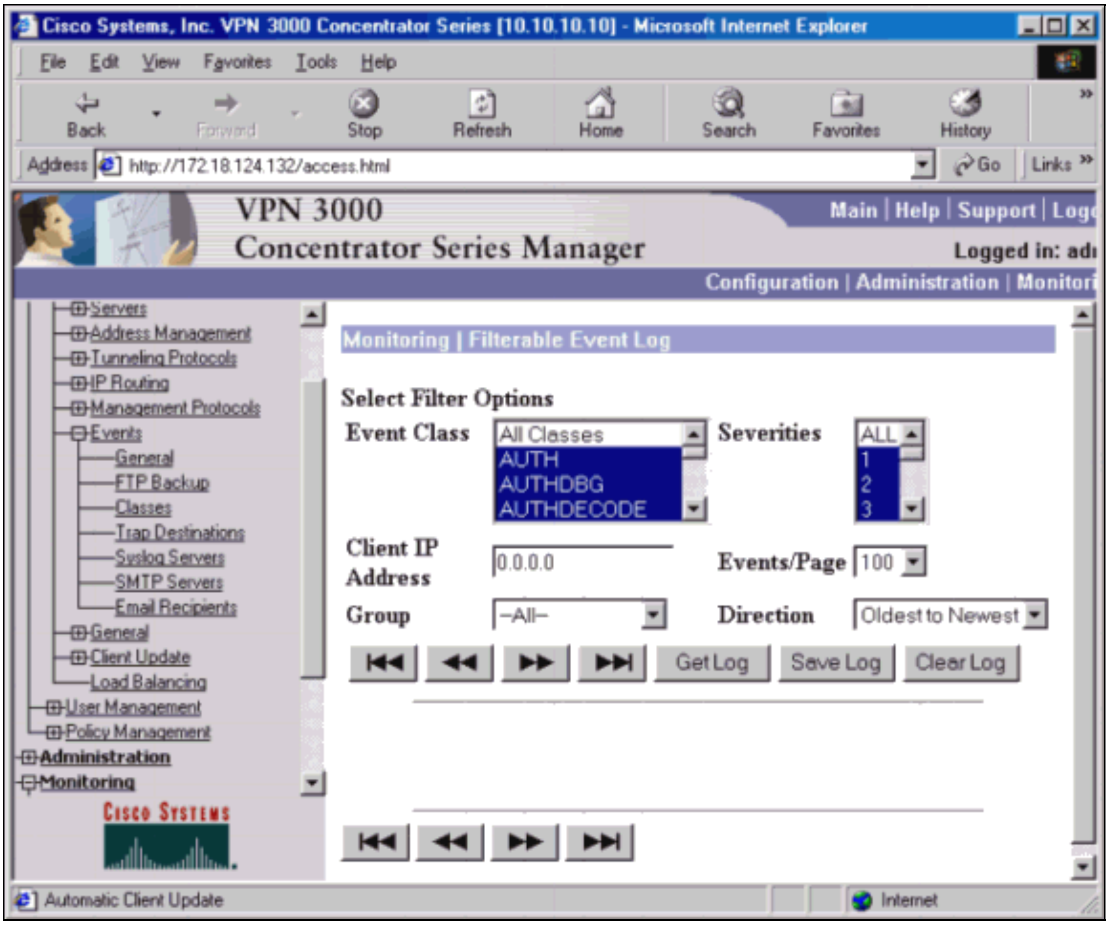
Configured Event Classes

AUTH
AUTHDBG
IKE
IKEDBG
IPSEC
IPSECDBG

Actions

Add
Modify
Delete

2. You can view the log by going to **Monitoring** > **Filterable Event Log**.



Monitoring | Filterable Event Log

Select Filter Options

Event Class: All Classes, AUTH, AUTHDBG, AUTHDECODE

Severities: ALL, 1, 2, 3

Client IP Address: 0.0.0.0

Events/Page: 100

Group: -All-

Direction: Oldest to Newest

Good Debugs

- VPN Client
- VPN 3000 Concentrator

VPN Client

```
1 14:02:24.118 11/05/2001 Sev=Info/4 CVPND/0x4340000F

Started cvpnd:

Cisco Systems VPN Client Version 3.0.8

Copyright (C) 1998-2001 Cisco Systems, Inc. All Rights Reserved.

Client Type(s): Linux

Running on: Linux 2.4.7-10 #1 Thu Sep 6 17:27:27 EDT 2001 i686

2 14:02:24.118 11/05/2001 Sev=Info/4 IPSEC/0x43700013

Delete internal key with SPI=0xcfa58e9f

3 14:02:24.118 11/05/2001 Sev=Info/4 IPSEC/0x4370000C

Key deleted by SPI 0xcfa58e9f

4 14:02:24.118 11/05/2001 Sev=Info/4 IPSEC/0x43700013

Delete internal key with SPI=0x3a21bb45
```

```
5 14:02:24.118 11/05/2001 Sev=Info/4 IPSEC/0x4370000C

Key deleted by SPI 0x3a21bb45

6 14:02:24.118 11/05/2001 Sev=Info/4 IPSEC/0x43700013

Delete internal key with SPI=0xc76d7f87

7 14:02:24.118 11/05/2001 Sev=Info/4 IPSEC/0x4370000C

Key deleted by SPI 0xc76d7f87

8 14:02:24.118 11/05/2001 Sev=Info/4 IPSEC/0x43700013

Delete internal key with SPI=0x8fd46a6a

9 14:02:24.118 11/05/2001 Sev=Info/4 IPSEC/0x4370000C

Key deleted by SPI 0x8fd46a6a

10 14:02:24.119 11/05/2001 Sev=Info/4 IPSEC/0x43700014

Deleted all keys

11 14:02:24.119 11/05/2001 Sev=Info/4 IPSEC/0x43700014

Deleted all keys

12 14:02:24.119 11/05/2001 Sev=Info/4 IPSEC/0x4370000A

IPSec driver successfully stopped

13 14:02:24.119 11/05/2001 Sev=Info/4 IPSEC/0x43700014

Deleted all keys

14 14:02:24.119 11/05/2001 Sev=Info/4 IPSEC/0x43700008

IPSec driver successfully started

15 14:02:24.119 11/05/2001 Sev=Info/4 IPSEC/0x43700014

Deleted all keys

16 14:02:24.119 11/05/2001 Sev=Info/4 IPSEC/0x4370000D

Key(s) deleted by Interface (192.168.10.41)

17 14:02:24.960 11/05/2001 Sev=Info/4 CM/0x43100002

Begin connection process

18 14:02:24.963 11/05/2001 Sev=Info/4 CM/0x43100004

Establish secure connection using Ethernet

19 14:02:24.963 11/05/2001 Sev=Info/4 CM/0x43100026

Attempt connection with server "rtp−vpn−cluster.cisco.com"

20 14:02:24.980 11/05/2001 Sev=Info/6 IKE/0x4300003B

Attempting to establish a connection with 161.44.127.194.

21 14:02:25.136 11/05/2001 Sev=Debug/7 IKE/0x4300000A
```

```
Sending ID me = ID_KEY ciscovpncluster-nat.

22 14:02:25.136 11/05/2001 Sev=Info/4 IKE/0x43000013

SENDING >>> ISAKMP OAK AG (SA, KE, NON, ID, VID, VID, VID) to 161.44.127.194

23 14:02:25.139 11/05/2001 Sev=Decode/11 IKE/0x43000001

ISAKMP Header

Initiator COOKIE: ACD9BE3AC57BBE35

Responder COOKIE: 0000000000000000

Next Payload: Security Association

Ver: 10

Exchange Type: Aggressive Mode

Flags: (none)

MessageID: 00000000

Length: 469762048

Payload Security Association

Next Payload: Key Exchange

Reserved: 0000

Payload Length: 308

DOI: IPsec

Situation:(SIT_IDENTITY_ONLY)

Payload Proposal

Next Payload: None

Reserved: 0000

Payload Length: 296

Proposal #: 1

Protocol-Id: PROTO_ISAKMP

SPI Size: 0

# of transfroms: 8

SPI:

Payload Transform

Next Payload: Transform

Reserved: 0000

Payload Length: 36

Transform #: 1
```

```
Transform−Id: KEY_IKE
Reserved2: 0000
Encryption Algorithm: 3DES−CBC
Hash Algorithm: SHA1
Group Description: Group 2
Authentication Method: XAUTHInitPreShared
Life Type: seconds
Life Duration (Hex): 9BC42000
Payload Transform
Next Payload: Transform
Reserved: 0000
Payload Length: 36
Transform #: 2
Transform−Id: KEY_IKE
Reserved2: 0000
Encryption Algorithm: 3DES−CBC
Hash Algorithm: MD5
Group Description: Group 2
Authentication Method: XAUTHInitPreShared
Life Type: seconds
Life Duration (Hex): 9BC42000
Payload Transform
Next Payload: Transform
Reserved: 0000
Payload Length: 36
Transform #: 3
Transform−Id: KEY_IKE
Reserved2: 0000
Encryption Algorithm: 3DES−CBC
Hash Algorithm: SHA1
Group Description: Group 2
Authentication Method: Preshared key
Life Type: seconds
Life Duration (Hex): 9BC42000
Payload Transform
Next Payload: Transform
Reserved: 0000
Payload Length: 36
Transform #: 4
Transform−Id: KEY_IKE
Reserved2: 0000
Encryption Algorithm: 3DES−CBC
Hash Algorithm: MD5
Group Description: Group 2
Authentication Method: Preshared key
Life Type: seconds
Life Duration (Hex): 9BC42000
Payload Transform
Next Payload: Transform
Reserved: 0000
Payload Length: 36
Transform #: 5
Transform−Id: KEY_IKE
Reserved2: 0000
Encryption Algorithm: DES−CBC
Hash Algorithm: SHA1
Group Description: Group 2
Authentication Method: XAUTHInitPreShared
Life Type: seconds
Life Duration (Hex): 9BC42000
Payload Transform
Next Payload: Transform
Reserved: 0000
Payload Length: 36
Transform #: 6
Transform−Id: KEY_IKE
```

```
Reserved2: 0000
Encryption Algorithm: DES−CBC
Hash Algorithm: MD5
Group Description: Group 2
Authentication Method: XAUTHInitPreShared
Life Type: seconds
Life Duration (Hex): 9BC42000
Payload Transform
Next Payload: Transform
Reserved: 0000
Payload Length: 36
Transform #: 7
Transform−Id: KEY_IKE
Reserved2: 0000
Encryption Algorithm: DES−CBC
Hash Algorithm: SHA1
Group Description: Group 2
Authentication Method: Preshared key
Life Type: seconds
Life Duration (Hex): 9BC42000
Payload Transform
Next Payload: None
Reserved: 0000
Payload Length: 36
Transform #: 8
Transform−Id: KEY_IKE
Reserved2: 0000
Encryption Algorithm: DES−CBC
Hash Algorithm: MD5
Group Description: Group 2
Authentication Method: Preshared key
Life Type: seconds
Life Duration (Hex): 9BC42000
```

```
Payload Key Exchange

Next Payload: Nonce

Reserved: 0000

Payload Length: 132

Data: 14B9E06FB0742252C9CDA9C0E1045036FCE13E88E84A868EE895743
287DBD865FF938F144197B85865F39D6ED5BF7B16CBE49EA64DF07CE6840D
4105D800CE463CB310BF85D145CF63659CD9F7403CF486C27C37D086A4A57
5AE655F547DF9FF1DAC0F5ECE37FA5D91DC58F3B1C3331D78C6D711C316A1
70A8515219147FB0C405000018

Payload Nonce

Next Payload: Identification

Reserved: 0000

Payload Length: 24

Data: 18ADE217264969EBC698E5742FDAE5A6F1E8555F0D00001B

Payload Identification

Next Payload: Vendor ID

Reserved: 0000

Payload Length: 27

ID Type: ID_KEY_ID

Protocol ID (UDP/TCP, etc...): 17

Port: 500

ID Data: ciscovpncluster−nat

Payload Vendor ID

Next Payload: Vendor ID

Reserved: 0000

Payload Length: 12

Data (In Hex): 09002689DFD6B712

Payload Vendor ID

Next Payload: Vendor ID

Reserved: 0000

Payload Length: 20

Data (In Hex): AFCAD71368A1F1C96B8696FC77570100

Payload Vendor ID

Next Payload: None

Reserved: 0000
```

```
Payload Length: 20
Data (In Hex): 12F5F28C457168A9702D9FE274CC0100

24 14:02:25.140 11/05/2001 Sev=Info/4 IPSEC/0x43700014
Deleted all keys
25 14:02:25.140 11/05/2001 Sev=Info/4 IPSEC/0x4370000D
Key(s) deleted by Interface (192.168.10.41)
26 14:02:25.341 11/05/2001 Sev=Info/5 IKE/0x4300002F
Received ISAKMP packet: peer = 161.44.127.194
27 14:02:25.343 11/05/2001 Sev=Decode/11 IKE/0x43000001
ISAKMP Header
Initiator COOKIE: ACD9BE3AC57BBE35
Responder COOKIE: F8D106BDD3A6236D
Next Payload: Security Association
Ver: 10
Exchange Type: Aggressive Mode
Flags: (none)
MessageID: 00000000
Length: 344
Payload Security Association
Next Payload: Key Exchange
Reserved: 0000
Payload Length: 56
DOI: IPsec
Situation:(SIT_IDENTITY_ONLY)
Payload Proposal
Next Payload: None
Reserved: 0000
Payload Length: 44
Proposal #: 1
Protocol−Id: PROTO_ISAKMP
SPI Size: 0
# of transfroms: 1
```

```
SPI:

Payload Transform

Next Payload: None

Reserved: 0000

Payload Length: 36

Transform #: 2

Transform−Id: KEY_IKE

Reserved2: 0000

Encryption Algorithm: 3DES−CBC

Hash Algorithm: MD5

Group Description: Group 2

Authentication Method: XAUTHInitPreShared

Life Type: seconds

Life Duration (Hex): 9BC42000

Payload Key Exchange

Next Payload: Nonce

Reserved: 0000

Payload Length: 132

Data: 0F428F30FAD939D04BB301934BD24252585691E9A5AA30DF3
E67B04A2BAF010C5B0F890D422AD68592AA11F0AD8DCA20766AF42C
F93850EC73526CFE91B953CF6A5B38A051CB6D7673A6F69E15ACE9D
7793FFC2A89B88135EA5DE187961E64869787008EFCBE1BEF40C34F
AE1A278F1BEE8DF3BA873DCDA9A33DC14FBE59D77605000018

Payload Nonce

Next Payload: Identification

Reserved: 0000

Payload Length: 24

Data: B466B5297839DDB8D45177EE87DABC1463EB8D4C0800000C

Payload Identification

Next Payload: Hash

Reserved: 0000

Payload Length: 12

ID Type: IPv4 Address

Protocol ID (UDP/TCP, etc...): 17

Port: 500
```

```
ID Data: 161.44.127.194

Payload Hash

Next Payload: Vendor ID

Reserved: 0000

Payload Length: 20

Data: E1F2B6C63282B7091A0DA4F1F9C056E30D000014

Payload Vendor ID

Next Payload: Vendor ID

Reserved: 0000

Payload Length: 20

Data (In Hex): 12F5F28C457168A9702D9FE274CC0100

Payload Vendor ID

Next Payload: Vendor ID

Reserved: 0000

Payload Length: 12

Data (In Hex): 09002689DFD6B712

Payload Vendor ID

Next Payload: Vendor ID

Reserved: 0000

Payload Length: 20

Data (In Hex): AFCAD71368A1F1C96B8696FC77570100

Payload Vendor ID

Next Payload: None

Reserved: 0000

Payload Length: 20

Data (In Hex): 1F07F70EAA6514D3B0FA96542A500300


28 14:02:25.344 11/05/2001 Sev=Info/4 IKE/0x43000014

RECEIVING <<< ISAKMP OAK AG (SA, KE, NON, ID, HASH, VID,
VID, VID, VID) from 161.44.127.194

29 14:02:25.344 11/05/2001 Sev=Info/5 IKE/0x43000059

Vendor ID payload = 12F5F28C457168A9702D9FE274CC0100

30 14:02:25.344 11/05/2001 Sev=Info/5 IKE/0x43000001

Peer is a Cisco−Unity compliant peer
```

```
31 14:02:25.344 11/05/2001 Sev=Info/5 IKE/0x43000059

Vendor ID payload = 09002689DFD6B712

32 14:02:25.344 11/05/2001 Sev=Info/5 IKE/0x43000059

Vendor ID payload = AFCAD71368A1F1C96B8696FC77570100

33 14:02:25.344 11/05/2001 Sev=Info/5 IKE/0x43000001

Peer supports DPD

34 14:02:25.344 11/05/2001 Sev=Info/5 IKE/0x43000059

Vendor ID payload = 1F07F70EAA6514D3B0FA96542A500300

35 14:02:25.480 11/05/2001 Sev=Info/4 IKE/0x43000013

SENDING >>> ISAKMP OAK AG *(HASH, NOTIFY:STATUS_INITIAL_CONTACT)
to 161.44.127.194

36 14:02:25.483 11/05/2001 Sev=Decode/11 IKE/0x43000001

ISAKMP Header

Initiator COOKIE: ACD9BE3AC57BBE35

Responder COOKIE: F8D106BDD3A6236D

Next Payload: Hash

Ver: 10

Exchange Type: Aggressive Mode

Flags: (Encryption)

MessageID: 00000000

Length: 469762048

Payload Hash

Next Payload: Notification

Reserved: 0000

Payload Length: 20

Data: CFCFC21977456B8B6BA6D39AB4EB14B20000001C

Payload Notification

Next Payload: None

Reserved: 0000

Payload Length: 28

DOI: IPsec

Protocol−ID: PROTO_ISAKMP

Spi Size: 16
```

```
Notify Type: STATUS_INITIAL_CONTACT
SPI: ACD9BE3AC57BBE35F8D106BDD3A6236D
Data:


37 14:02:25.524 11/05/2001 Sev=Info/5 IKE/0x4300002F
Received ISAKMP packet: peer = 161.44.127.194
38 14:02:25.524 11/05/2001 Sev=Debug/7 IKE/0x43000022
Crypto READY becoming ACTIVE
39 14:02:25.527 11/05/2001 Sev=Decode/11 IKE/0x43000001
ISAKMP Header
Initiator COOKIE: ACD9BE3AC57BBE35
Responder COOKIE: F8D106BDD3A6236D
Next Payload: Hash
Ver: 10
Exchange Type: Informational
Flags: (Encryption)
MessageID: 9A429435
Length: 84
Payload Hash
Next Payload: Notification
Reserved: 0000
Payload Length: 20
Data: 09ED923D74F93C252C056B96F374E80900000020
Payload Notification
Next Payload: None
Reserved: 0000
Payload Length: 32
DOI: IPsec
Protocol-ID: PROTO_ISAKMP
Spi Size: 16
Notify Type: NOTIFY_STATUS_LOAD_BALALANCE
SPI: ACD9BE3AC57BBE35F8D106BDD3A6236D
Data: A12C7FC4
```

```
40 14:02:25.527 11/05/2001 Sev=Info/4 IKE/0x43000014

RECEIVING <<< ISAKMP OAK INFO *(HASH, NOTIFY:LOAD_BALANCE)
from 161.44.127.194

41 14:02:25.527 11/05/2001 Sev=Info/4 CM/0x4310001B

Received alternative server address "161.44.127.196" from
primary server

42 14:02:25.527 11/05/2001 Sev=Debug/8 IKE/0x4300004C

Stopping DPD timer for IKE SA* 0817FC98

43 14:02:25.528 11/05/2001 Sev=Info/4 IKE/0x43000013

SENDING >>> ISAKMP OAK INFO *(HASH, DEL) to 161.44.127.194

44 14:02:25.530 11/05/2001 Sev=Decode/11 IKE/0x43000001

ISAKMP Header

Initiator COOKIE: ACD9BE3AC57BBE35

Responder COOKIE: F8D106BDD3A6236D

Next Payload: Hash

Ver: 10

Exchange Type: Informational

Flags: (Encryption)

MessageID: D3B8CE2C

Length: 469762048

Payload Hash

Next Payload: Delete

Reserved: 0000

Payload Length: 20

Data: D1461180C869DA6D6A7BDE0A34CE7D030000001C

Payload Delete

Next Payload: None

Reserved: 0000

Payload Length: 28

DOI: Isakmp

Protocol−ID: PROTO_ISAKMP

Spi Size: 16

# of SPIs: 1
```

```
SPI (Hex dump): ACD9BE3AC57BBE35F8D106BDD3A6236D



45 14:02:25.531 11/05/2001 Sev=Info/4 CM/0x43100014

Unable to establish Phase 1 SA with server
"rtp−vpn−cluster.cisco.com" because of "DEL_REASON_LOAD_BALANCING"

46 14:02:25.531 11/05/2001 Sev=Info/4 CM/0x43100010

Try alternative server "161.44.127.196" given by the
primary server

47 14:02:25.531 11/05/2001 Sev=Info/4 CM/0x43100026

Attempt connection with server "161.44.127.196"

48 14:02:25.531 11/05/2001 Sev=Info/6 IKE/0x4300003B

Attempting to establish a connection with 161.44.127.196.

49 14:02:25.678 11/05/2001 Sev=Debug/7 IKE/0x4300000A

Sending ID me = ID_KEY ciscovpncluster−nat.

50 14:02:25.678 11/05/2001 Sev=Info/4 IKE/0x43000013

SENDING >>> ISAKMP OAK AG (SA, KE, NON, ID, VID, VID, VID)
to 161.44.127.196

51 14:02:25.681 11/05/2001 Sev=Decode/11 IKE/0x43000001

ISAKMP Header

Initiator COOKIE: DACB1B32139742E7

Responder COOKIE: 0000000000000000

Next Payload: Security Association

Ver: 10

Exchange Type: Aggressive Mode

Flags: (none)

MessageID: 00000000

Length: 469762048

Payload Security Association

Next Payload: Key Exchange

Reserved: 0000

Payload Length: 308

DOI: IPsec

Situation:(SIT_IDENTITY_ONLY)

Payload Proposal

Next Payload: None
```

```
Reserved: 0000
Payload Length: 296
Proposal #: 1
Protocol−Id: PROTO_ISAKMP
SPI Size: 0
# of transfroms: 8
SPI:
Payload Transform
Next Payload: Transform
Reserved: 0000
Payload Length: 36
Transform #: 1
Transform−Id: KEY_IKE
Reserved2: 0000
Encryption Algorithm: 3DES−CBC
Hash Algorithm: SHA1
Group Description: Group 2
Authentication Method: XAUTHInitPreShared
Life Type: seconds
Life Duration (Hex): 9BC42000
Payload Transform
Next Payload: Transform
Reserved: 0000
Payload Length: 36
Transform #: 2
Transform−Id: KEY_IKE
Reserved2: 0000
Encryption Algorithm: 3DES−CBC
Hash Algorithm: MD5
Group Description: Group 2
Authentication Method: XAUTHInitPreShared
Life Type: seconds
Life Duration (Hex): 9BC42000
```

```
Payload Transform
Next Payload: Transform
Reserved: 0000
Payload Length: 36
Transform #: 3
Transform−Id: KEY_IKE
Reserved2: 0000
Encryption Algorithm: 3DES−CBC
Hash Algorithm: SHA1
Group Description: Group 2
Authentication Method: Preshared key
Life Type: seconds
Life Duration (Hex): 9BC42000
Payload Transform
Next Payload: Transform
Reserved: 0000
Payload Length: 36
Transform #: 4
Transform−Id: KEY_IKE
Reserved2: 0000
Encryption Algorithm: 3DES−CBC
Hash Algorithm: MD5
Group Description: Group 2
Authentication Method: Preshared key
Life Type: seconds
Life Duration (Hex): 9BC42000
Payload Transform
Next Payload: Transform
Reserved: 0000
Payload Length: 36
Transform #: 5
Transform−Id: KEY_IKE
Reserved2: 0000
```

```
Encryption Algorithm: DES−CBC
Hash Algorithm: SHA1
Group Description: Group 2
Authentication Method: XAUTHInitPreShared
Life Type: seconds
Life Duration (Hex): 9BC42000
Payload Transform
Next Payload: Transform
Reserved: 0000
Payload Length: 36
Transform #: 6
Transform−Id: KEY_IKE
Reserved2: 0000
Encryption Algorithm: DES−CBC
Hash Algorithm: MD5
Group Description: Group 2
Authentication Method: XAUTHInitPreShared
Life Type: seconds
Life Duration (Hex): 9BC42000
Payload Transform
Next Payload: Transform
Reserved: 0000
Payload Length: 36
Transform #: 7
Transform−Id: KEY_IKE
Reserved2: 0000
Encryption Algorithm: DES−CBC
Hash Algorithm: SHA1
Group Description: Group 2
Authentication Method: Preshared key
Life Type: seconds
Life Duration (Hex): 9BC42000
Payload Transform
```

```
Next Payload: None

Reserved: 0000

Payload Length: 36

Transform #: 8

Transform−Id: KEY_IKE

Reserved2: 0000

Encryption Algorithm: DES−CBC

Hash Algorithm: MD5

Group Description: Group 2

Authentication Method: Preshared key

Life Type: seconds

Life Duration (Hex): 9BC42000

Payload Key Exchange

Next Payload: Nonce

Reserved: 0000

Payload Length: 132

Data: 7F445582B28E0DA53D4D7C42E50582503B5771C46C357F98
4DCB7A9549F5F6789E05016095F4FEFD3C2B1206CBCE63681AF2D5
5BEED5524D989636C22523665E58F7D338DFD7D7F838CF4A0514C7
F3F87BBCB053E257D08B8A2AD988AABB63B692852FFE4E550C4020
A0A3058170F6CA53C3C2BEC27045FD8B7C724E2ED1BD3405000018

Payload Nonce

Next Payload: Identification

Reserved: 0000

Payload Length: 24

Data: 5A57FF12D4D74824EB0103E3E2D7C3A5403BDA0F0D00001B

Payload Identification

Next Payload: Vendor ID

Reserved: 0000

Payload Length: 27

ID Type: ID_KEY_ID

Protocol ID (UDP/TCP, etc...): 17

Port: 500

ID Data: ciscovpncluster−nat

Payload Vendor ID
```

```
Next Payload: Vendor ID

Reserved: 0000

Payload Length: 12

Data (In Hex): 09002689DFD6B712

Payload Vendor ID

Next Payload: Vendor ID

Reserved: 0000

Payload Length: 20

Data (In Hex): AFCAD71368A1F1C96B8696FC77570100

Payload Vendor ID

Next Payload: None

Reserved: 0000

Payload Length: 20

Data (In Hex): 12F5F28C457168A9702D9FE274CC0100


52 14:02:25.682 11/05/2001 Sev=Debug/8 IKE/0x4300004C

Stopping DPD timer for IKE SA* 0817FC98

53 14:02:25.682 11/05/2001 Sev=Info/5 IKE/0x4300002F

Received ISAKMP packet: peer = 161.44.127.194

54 14:02:25.682 11/05/2001 Sev=Warning/2 IKE/0xC3000080

Received an IKE packet from someone other than the
Concentrator that we are currently connected to... discarding packet.

55 14:02:25.883 11/05/2001 Sev=Info/5 IKE/0x4300002F

Received ISAKMP packet: peer = 161.44.127.196

56 14:02:25.886 11/05/2001 Sev=Decode/11 IKE/0x43000001

ISAKMP Header

Initiator COOKIE: DACB1B32139742E7

Responder COOKIE: 630E88F067C1B0B5

Next Payload: Security Association

Ver: 10

Exchange Type: Aggressive Mode

Flags: (none)

MessageID: 00000000
```

```
Length: 344
Payload Security Association
Next Payload: Key Exchange
Reserved: 0000
Payload Length: 56
DOI: IPsec
Situation:(SIT_IDENTITY_ONLY)
Payload Proposal
Next Payload: None
Reserved: 0000
Payload Length: 44
Proposal #: 1
Protocol−Id: PROTO_ISAKMP
SPI Size: 0
# of transfroms: 1
SPI:
Payload Transform
Next Payload: None
Reserved: 0000
Payload Length: 36
Transform #: 2
Transform−Id: KEY_IKE
Reserved2: 0000
Encryption Algorithm: 3DES−CBC
Hash Algorithm: MD5
Group Description: Group 2
Authentication Method: XAUTHInitPreShared
Life Type: seconds
Life Duration (Hex): 9BC42000
Payload Key Exchange
Next Payload: Nonce
Reserved: 0000
Payload Length: 132
```

```
Data: 71A75D31C3251028E8B893C8268A3CBF626ADCC4BE8A550F
C2EFFAD981C25B68145B42F554E505CD90C1309F46335EF4E1E064
9A54C5D1E0496E5A169690B1FAA8AFE69271C09D9189EFE993CBD5
BECB9FF304F00BA8CD6509551FC7D5BB3AB97FF3464E4E29400232
88BBF1E698C3E0C58BCAD5D69E881F47981CCA00E221DA05000018

Payload Nonce

Next Payload: Identification

Reserved: 0000

Payload Length: 24

Data: 392387EED0F758D660D57DF42F937AD1EE2A80AF0800000C

Payload Identification

Next Payload: Hash

Reserved: 0000

Payload Length: 12

ID Type: IPv4 Address

Protocol ID (UDP/TCP, etc...): 17

Port: 500

ID Data: 161.44.127.196

Payload Hash

Next Payload: Vendor ID

Reserved: 0000

Payload Length: 20

Data: FD17C6600A11AB661CF746CA2B9BB0CE0D000014

Payload Vendor ID

Next Payload: Vendor ID

Reserved: 0000

Payload Length: 20

Data (In Hex): 12F5F28C457168A9702D9FE274CC0100

Payload Vendor ID

Next Payload: Vendor ID

Reserved: 0000

Payload Length: 12

Data (In Hex): 09002689DFD6B712

Payload Vendor ID

Next Payload: Vendor ID
```

```
Reserved: 0000

Payload Length: 20

Data (In Hex): AFCAD71368A1F1C96B8696FC77570100

Payload Vendor ID

Next Payload: None

Reserved: 0000

Payload Length: 20

Data (In Hex): 1F07F70EAA6514D3B0FA96542A500300



57 14:02:25.887 11/05/2001 Sev=Info/4 IKE/0x43000014

RECEIVING <<< ISAKMP OAK AG (SA, KE, NON, ID, HASH, VID,
VID, VID, VID) from 161.44.127.196

58 14:02:25.887 11/05/2001 Sev=Info/5 IKE/0x43000059

Vendor ID payload = 12F5F28C457168A9702D9FE274CC0100

59 14:02:25.887 11/05/2001 Sev=Info/5 IKE/0x43000001

Peer is a Cisco−Unity compliant peer

60 14:02:25.887 11/05/2001 Sev=Info/5 IKE/0x43000059

Vendor ID payload = 09002689DFD6B712

61 14:02:25.887 11/05/2001 Sev=Info/5 IKE/0x43000059

Vendor ID payload = AFCAD71368A1F1C96B8696FC77570100

62 14:02:25.887 11/05/2001 Sev=Info/5 IKE/0x43000001

Peer supports DPD

63 14:02:25.887 11/05/2001 Sev=Info/5 IKE/0x43000059

Vendor ID payload = 1F07F70EAA6514D3B0FA96542A500300

64 14:02:26.036 11/05/2001 Sev=Info/4 IKE/0x43000013

SENDING >>> ISAKMP OAK AG *(HASH, NOTIFY:STATUS_INITIAL_CONTACT)
to 161.44.127.196

65 14:02:26.039 11/05/2001 Sev=Decode/11 IKE/0x43000001

ISAKMP Header

Initiator COOKIE: DACB1B32139742E7

Responder COOKIE: 630E88F067C1B0B5

Next Payload: Hash

Ver: 10

Exchange Type: Aggressive Mode
```

```
Flags: (Encryption)
MessageID: 00000000
Length: 469762048
Payload Hash
Next Payload: Notification
Reserved: 0000
Payload Length: 20
Data: 09E5321B10682CCF4C87EDE7EC41E3810000001C
Payload Notification
Next Payload: None
Reserved: 0000
Payload Length: 28
DOI: IPsec
Protocol−ID: PROTO_ISAKMP
Spi Size: 16
Notify Type: STATUS_INITIAL_CONTACT
SPI: DACB1B32139742E7630E88F067C1B0B5
Data:

66 14:02:26.081 11/05/2001 Sev=Info/5 IKE/0x4300002F
Received ISAKMP packet: peer = 161.44.127.196
67 14:02:26.081 11/05/2001 Sev=Debug/7 IKE/0x43000022
Crypto READY becoming ACTIVE
68 14:02:26.084 11/05/2001 Sev=Decode/11 IKE/0x43000001
ISAKMP Header
Initiator COOKIE: DACB1B32139742E7
Responder COOKIE: 630E88F067C1B0B5
Next Payload: Hash
Ver: 10
Exchange Type: Transaction
Flags: (Encryption)
MessageID: D16C4008
Length: 100
```

```
Payload Hash

Next Payload: Attributes

Reserved: 0000

Payload Length: 20

Data: EFB8FABB63311D72DDB7F15A809215B700000034

Payload Attributes

Next Payload: None

Reserved: 0000

Payload Length: 52

type: ISAKMP_CFG_REQUEST

Reserved: 00

Identifier: 0000

XAUTH Type: RADIUS−CHAP

XAUTH User Name: (empty)

XAUTH User Password: (empty)

XAUTH Message: (data not displayed)


69 14:02:26.084 11/05/2001 Sev=Info/4 IKE/0x43000014

RECEIVING <<< ISAKMP OAK TRANS *(HASH, ATTR) from
161.44.127.196

70 14:02:26.084 11/05/2001 Sev=Info/4 CM/0x43100015

Launch xAuth application

71 14:02:27.098 11/05/2001 Sev=Info/4 IPSEC/0x43700012

Delete all keys associated with peer 161.44.127.194

72 14:02:27.098 11/05/2001 Sev=Info/4 IPSEC/0x43700014

Deleted all keys

73 14:02:27.098 11/05/2001 Sev=Info/4 IPSEC/0x4370000D

Key(s) deleted by Interface (192.168.10.41)

74 14:02:42.971 11/05/2001 Sev=Info/4 CM/0x43100017

xAuth application returned

75 14:02:42.971 11/05/2001 Sev=Info/4 IKE/0x43000013

SENDING >>> ISAKMP OAK TRANS *(HASH, ATTR) to 161.44.127.196

76 14:02:42.974 11/05/2001 Sev=Decode/11 IKE/0x43000001

ISAKMP Header
```

```
Initiator COOKIE: DACB1B32139742E7
Responder COOKIE: 630E88F067C1B0B5
Next Payload: Hash
Ver: 10
Exchange Type: Transaction
Flags: (Encryption)
MessageID: 08406CD1
Length: 469762048
Payload Hash
Next Payload: Attributes
Reserved: 0000
Payload Length: 20
Data: 0E26F47ABBA0AF052EA3B9DC6E34C9B300000024
Payload Attributes
Next Payload: None
Reserved: 0000
Payload Length: 36
type: ISAKMP_CFG_REPLY
Reserved: 00
Identifier: 0000
XAUTH Type: RADIUS-CHAP
XAUTH User Name: (data not displayed)
XAUTH User Password: (data not displayed)

77 14:02:43.819 11/05/2001 Sev=Info/5 IKE/0x4300002F
Received ISAKMP packet: peer = 161.44.127.196
78 14:02:43.822 11/05/2001 Sev=Decode/11 IKE/0x43000001
ISAKMP Header
Initiator COOKIE: DACB1B32139742E7
Responder COOKIE: 630E88F067C1B0B5
Next Payload: Hash
Ver: 10
Exchange Type: Transaction
```

```
Flags: (Encryption)

MessageID: 4D49FD67

Length: 60

Payload Hash

Next Payload: Attributes

Reserved: 0000

Payload Length: 20

Data: 20516C85949FEB6061853707A36B730D0000000C

Payload Attributes

Next Payload: None

Reserved: 0000

Payload Length: 12

type: ISAKMP_CFG_SET

Reserved: 00

Identifier: 0000

XAUTH Status: Pass


79 14:02:43.822 11/05/2001 Sev=Info/4 IKE/0x43000014

RECEIVING <<< ISAKMP OAK TRANS *(HASH, ATTR) from
161.44.127.196

80 14:02:43.822 11/05/2001 Sev=Info/4 CM/0x4310000E

Established Phase 1 SA. 1 Phase 1 SA in the system

81 14:02:43.825 11/05/2001 Sev=Info/4 IKE/0x43000013

SENDING >>> ISAKMP OAK TRANS *(HASH, ATTR) to 161.44.127.196

82 14:02:43.828 11/05/2001 Sev=Decode/11 IKE/0x43000001

ISAKMP Header

Initiator COOKIE: DACB1B32139742E7

Responder COOKIE: 630E88F067C1B0B5

Next Payload: Hash

Ver: 10

Exchange Type: Transaction

Flags: (Encryption)

MessageID: 67FD494D
```

```
Length: 469762048
Payload Hash
Next Payload: Attributes
Reserved: 0000
Payload Length: 20
Data: 80AEFC5EA1F421789068A21B520A1E7700000008
Payload Attributes
Next Payload: None
Reserved: 0000
Payload Length: 8
type: ISAKMP_CFG_ACK
Reserved: 00
Identifier: 0000

83 14:02:43.829 11/05/2001 Sev=Info/4 IKE/0x43000013
SENDING >>> ISAKMP OAK TRANS *(HASH, ATTR) to 161.44.127.196
84 14:02:43.831 11/05/2001 Sev=Decode/11 IKE/0x43000001
ISAKMP Header
Initiator COOKIE: DACB1B32139742E7
Responder COOKIE: 630E88F067C1B0B5
Next Payload: Hash
Ver: 10
Exchange Type: Transaction
Flags: (Encryption)
MessageID: 19973167
Length: 469762048
Payload Hash
Next Payload: Attributes
Reserved: 0000
Payload Length: 20
Data: 9309A365C01503CB0B89B888D530494500000056
Payload Attributes
Next Payload: None
```

```
Reserved: 0000

Payload Length: 86

type: ISAKMP_CFG_REQUEST

Reserved: 00

Identifier: 0000

IPv4 Address: (empty)

IPv4 Netmask: (empty)

IPv4 DNS: (empty)

IPv4 NBNS (WINS): (empty)

Address Expiry: (empty)

Application Version: Cisco Systems VPN Client 3.0.8

Cisco extension: Banner: (empty)

Cisco extension: Save PWD: (empty)

Cisco extension: Default Domain Name: (empty)

Cisco extension: Split Include: (empty)

Cisco extension: Do PFS: (empty)

Cisco extension: NAT traversal UDP Port: (empty)


85 14:02:43.832 11/05/2001 Sev=Debug/8 IKE/0x4300004B

Starting DPD timer for IKE SA* 081801C8, sa->state = 4,
sa->dpd_peer_enabled = 1, sa->dpd_timer = 081803FC,
sa->dpd.worry_freq = 5000

86 14:02:43.879 11/05/2001 Sev=Info/5 IKE/0x4300002F

Received ISAKMP packet: peer = 161.44.127.196

87 14:02:43.882 11/05/2001 Sev=Decode/11 IKE/0x43000001

ISAKMP Header

Initiator COOKIE: DACB1B32139742E7

Responder COOKIE: 630E88F067C1B0B5

Next Payload: Hash

Ver: 10

Exchange Type: Transaction

Flags: (Encryption)

MessageID: 67319719

Length: 236
```

```
Payload Hash

Next Payload: Attributes

Reserved: 0000

Payload Length: 20

Data: 8722B4CDB825174DAB03CBC052241CC6000000B7

Payload Attributes

Next Payload: None

Reserved: 0000

Payload Length: 183

type: ISAKMP_CFG_REPLY

Reserved: 00

Identifier: 0000

IPv4 Address: 4.0.0.0

IPv4 DNS: 4.0.0.0

IPv4 DNS: 4.0.0.0

IPv4 NBNS (WINS): 4.0.0.0

IPv4 NBNS (WINS): 4.0.0.0

Cisco extension: Banner: rtp-vpn-cluster-2-nat:
Cisco Systems Inc.

UNAUTHORIZED ACCESS TO THIS NETWORK DEVICE IS PROHIBITED.

Cisco extension: Save PWD: No

Cisco extension: Default Domain Name: cisco.com

Cisco extension: NAT traversal UDP Port: 3221200488

Cisco extension: Do PFS: No



88 14:02:43.882 11/05/2001 Sev=Info/4 IKE/0x43000014

RECEIVING <<< ISAKMP OAK TRANS *(HASH, ATTR) from
161.44.127.196

89 14:02:43.883 11/05/2001 Sev=Info/5 IKE/0x43000010

MODE_CFG_REPLY: Attribute = INTERNAL_IPV4_ADDRESS: ,
value = 10.82.240.214

90 14:02:43.883 11/05/2001 Sev=Info/5 IKE/0x43000010

MODE_CFG_REPLY: Attribute = INTERNAL_IPV4_DNS(1): ,
value = 64.102.6.247

91 14:02:43.883 11/05/2001 Sev=Info/5 IKE/0x43000010
```

```
MODE_CFG_REPLY: Attribute = INTERNAL_IPV4_DNS(2): ,
value = 171.68.226.120

92 14:02:43.883 11/05/2001 Sev=Info/5 IKE/0x43000010

MODE_CFG_REPLY: Attribute = INTERNAL_IPV4_NBNS(1)
(a.k.a. WINS) : , value = 64.102.2.124

93 14:02:43.883 11/05/2001 Sev=Info/5 IKE/0x43000010

MODE_CFG_REPLY: Attribute = INTERNAL_IPV4_NBNS(2)
(a.k.a. WINS): , value = 171.68.235.228

94 14:02:43.883 11/05/2001 Sev=Info/5 IKE/0x4300000E

MODE_CFG_REPLY: Attribute = MODECFG_UNITY_BANNER,
value = rtp−vpn−cluster−2−nat: Cisco Systems Inc.

UNAUTHORIZED ACCESS TO THIS NETWORK DEVICE IS PROHIBITED.



95 14:02:43.883 11/05/2001 Sev=Info/5 IKE/0x4300000D

MODE_CFG_REPLY: Attribute = MODECFG_UNITY_SAVEPWD: ,
value = 0x00000000

96 14:02:43.883 11/05/2001 Sev=Info/5 IKE/0x4300000E

MODE_CFG_REPLY: Attribute = MODECFG_UNITY_DEFDOMAIN: ,
value = cisco.com

97 14:02:43.883 11/05/2001 Sev=Info/5 IKE/0x4300000D

MODE_CFG_REPLY: Attribute = MODECFG_UNITY_UDP_NAT_PORT,
value = 0x00002710

98 14:02:43.883 11/05/2001 Sev=Info/5 IKE/0x4300000D

MODE_CFG_REPLY: Attribute = MODECFG_UNITY_PFS: ,
value = 0x00000000

99 14:02:43.899 11/05/2001 Sev=Info/4 CM/0x43100019

Mode Config data received

100 14:03:03.938 11/05/2001 Sev=Info/5 IKE/0x43000055

Received a key request from Driver for IP address
161.44.127.196, GW IP = 161.44.127.196

101 14:03:03.939 11/05/2001 Sev=Info/4 IKE/0x43000013

SENDING >>> ISAKMP OAK QM *(HASH, SA, NON, ID, ID)
to 161.44.127.196

102 14:03:03.942 11/05/2001 Sev=Decode/11 IKE/0x43000001

ISAKMP Header

Initiator COOKIE: DACB1B32139742E7

Responder COOKIE: 630E88F067C1B0B5

Next Payload: Hash
```

```
Ver: 10
Exchange Type: Quick Mode
Flags: (Encryption)
MessageID: 371035BB
Length: 469762048
Payload Hash
Next Payload: Security Association
Reserved: 0000
Payload Length: 20
Data: C4134662EC838D6032DC22393A14ECA90A0002B8
Payload Security Association
Next Payload: Nonce
Reserved: 0000
Payload Length: 696
DOI: IPsec
Situation:(SIT_IDENTITY_ONLY)
Payload Proposal
Next Payload: Proposal
Reserved: 0000
Payload Length: 40
Proposal #: 1
Protocol−Id: PROTO_IPSEC_ESP
SPI Size: 4
# of transfroms: 1
SPI: 76AF9EAA
Payload Transform
Next Payload: None
Reserved: 0000
Payload Length: 28
Transform #: 1
Transform−Id: ESP_3DES
Reserved2: 0000
Authentication Algorithm: MD5
```

```
Encapsulation Mode: Tunnel
Life Type: Seconds
Life Duration (Hex): 0020C49B
Payload Proposal
Next Payload: Proposal
Reserved: 0000
Payload Length: 34
Proposal #: 1
Protocol−Id: PROTO_IPCOMP
SPI Size: 2
# of transfroms: 1
SPI: 11B2
Payload Transform
Next Payload: None
Reserved: 0000
Payload Length: 24
Transform #: 1
Transform−Id: IPCOMP_LZS
Reserved2: 0000
Encapsulation Mode: Tunnel
Life Type: Seconds
Life Duration (Hex): 0020C49B
Payload Proposal
Next Payload: Proposal
Reserved: 0000
Payload Length: 40
Proposal #: 2
Protocol−Id: PROTO_IPSEC_ESP
SPI Size: 4
# of transfroms: 1
SPI: 76AF9EAA
Payload Transform
Next Payload: None
```

```
Reserved: 0000

Payload Length: 28

Transform #: 1

Transform−Id: ESP_3DES

Reserved2: 0000

Authentication Algorithm: SHA1

Encapsulation Mode: Tunnel

Life Type: Seconds

Life Duration (Hex): 0020C49B

Payload Proposal

Next Payload: Proposal

Reserved: 0000

Payload Length: 34

Proposal #: 2

Protocol−Id: PROTO_IPCOMP

SPI Size: 2

# of transfroms: 1

SPI: 2AC8

Payload Transform

Next Payload: None

Reserved: 0000

Payload Length: 24

Transform #: 1

Transform−Id: IPCOMP_LZS

Reserved2: 0000

Encapsulation Mode: Tunnel

Life Type: Seconds

Life Duration (Hex): 0020C49B

Payload Proposal

Next Payload: Proposal

Reserved: 0000

Payload Length: 40

Proposal #: 3
```

```
Protocol−Id: PROTO_IPSEC_ESP

SPI Size: 4

# of transfroms: 1

SPI: 76AF9EAA

Payload Transform

Next Payload: None

Reserved: 0000

Payload Length: 28

Transform #: 1

Transform−Id: ESP_3DES

Reserved2: 0000

Authentication Algorithm: MD5

Encapsulation Mode: Tunnel

Life Type: Seconds

Life Duration (Hex): 0020C49B

Payload Proposal

Next Payload: Proposal

Reserved: 0000

Payload Length: 40

Proposal #: 4

Protocol−Id: PROTO_IPSEC_ESP

SPI Size: 4

# of transfroms: 1

SPI: 76AF9EAA

Payload Transform

Next Payload: None

Reserved: 0000

Payload Length: 28

Transform #: 1

Transform−Id: ESP_3DES

Reserved2: 0000

Authentication Algorithm: SHA1

Encapsulation Mode: Tunnel
```

```
Life Type: Seconds
Life Duration (Hex): 0020C49B
Payload Proposal
Next Payload: Proposal
Reserved: 0000
Payload Length: 40
Proposal #: 5
Protocol−Id: PROTO_IPSEC_ESP
SPI Size: 4
# of transfroms: 1
SPI: 76AF9EAA
Payload Transform
Next Payload: None
Reserved: 0000
Payload Length: 28
Transform #: 1
Transform−Id: ESP_DES
Reserved2: 0000
Authentication Algorithm: MD5
Encapsulation Mode: Tunnel
Life Type: Seconds
Life Duration (Hex): 0020C49B
Payload Proposal
Next Payload: Proposal
Reserved: 0000
Payload Length: 34
Proposal #: 5
Protocol−Id: PROTO_IPCOMP
SPI Size: 2
# of transfroms: 1
SPI: 2A25
Payload Transform
Next Payload: None
```

```
Reserved: 0000
Payload Length: 24
Transform #: 1
Transform−Id: IPCOMP_LZS
Reserved2: 0000
Encapsulation Mode: Tunnel
Life Type: Seconds
Life Duration (Hex): 0020C49B
Payload Proposal
Next Payload: Proposal
Reserved: 0000
Payload Length: 40
Proposal #: 6
Protocol−Id: PROTO_IPSEC_ESP
SPI Size: 4
# of transfroms: 1
SPI: 76AF9EAA
Payload Transform
Next Payload: None
Reserved: 0000
Payload Length: 28
Transform #: 1
Transform−Id: ESP_DES
Reserved2: 0000
Authentication Algorithm: SHA1
Encapsulation Mode: Tunnel
Life Type: Seconds
Life Duration (Hex): 0020C49B
Payload Proposal
Next Payload: Proposal
Reserved: 0000
Payload Length: 34
Proposal #: 6
```

```
Protocol-Id: PROTO_IPCOMP
SPI Size: 2
# of transfroms: 1
SPI: B7EB
Payload Transform
Next Payload: None
Reserved: 0000
Payload Length: 24
Transform #: 1
Transform-Id: IPCOMP_LZS
Reserved2: 0000
Encapsulation Mode: Tunnel
Life Type: Seconds
Life Duration (Hex): 0020C49B
Payload Proposal
Next Payload: Proposal
Reserved: 0000
Payload Length: 40
Proposal #: 7
Protocol-Id: PROTO_IPSEC_ESP
SPI Size: 4
# of transfroms: 1
SPI: 76AF9EAA
Payload Transform
Next Payload: None
Reserved: 0000
Payload Length: 28
Transform #: 1
Transform-Id: ESP_DES
Reserved2: 0000
Authentication Algorithm: MD5
Encapsulation Mode: Tunnel
Life Type: Seconds
Life Duration (Hex): 0020C49B
Payload Proposal
Next Payload: Proposal
Reserved: 0000
Payload Length: 40
Proposal #: 8
Protocol−Id: PROTO_IPSEC_ESP
SPI Size: 4
# of transfroms: 1
SPI: 76AF9EAA
Payload Transform
Next Payload: None
Reserved: 0000
Payload Length: 28
Transform #: 1
Transform−Id: ESP_DES
Reserved2: 0000
Authentication Algorithm: SHA1
Encapsulation Mode: Tunnel
Life Type: Seconds
Life Duration (Hex): 0020C49B
Payload Proposal
Next Payload: Proposal
Reserved: 0000
Payload Length: 40
Proposal #: 9
Protocol−Id: PROTO_IPSEC_ESP
SPI Size: 4
# of transfroms: 1
SPI: 76AF9EAA
Payload Transform
Next Payload: None
Reserved: 0000
```

```
Payload Length: 28
Transform #: 1
Transform−Id: ESP_NULL
Reserved2: 0000
Authentication Algorithm: MD5
Encapsulation Mode: Tunnel
Life Type: Seconds
Life Duration (Hex): 0020C49B
Payload Proposal
Next Payload: Proposal
Reserved: 0000
Payload Length: 34
Proposal #: 9
Protocol−Id: PROTO_IPCOMP
SPI Size: 2
# of transfroms: 1
SPI: 9637
Payload Transform
Next Payload: None
Reserved: 0000
Payload Length: 24
Transform #: 1
Transform−Id: IPCOMP_LZS
Reserved2: 0000
Encapsulation Mode: Tunnel
Life Type: Seconds
Life Duration (Hex): 0020C49B
Payload Proposal
Next Payload: Proposal
Reserved: 0000
Payload Length: 40
Proposal #: 10
Protocol−Id: PROTO_IPSEC_ESP
```

```
SPI Size: 4
# of transfroms: 1
SPI: 76AF9EAA
Payload Transform
Next Payload: None
Reserved: 0000
Payload Length: 28
Transform #: 1
Transform−Id: ESP_NULL
Reserved2: 0000
Authentication Algorithm: SHA1
Encapsulation Mode: Tunnel
Life Type: Seconds
Life Duration (Hex): 0020C49B
Payload Proposal
Next Payload: Proposal
Reserved: 0000
Payload Length: 34
Proposal #: 10
Protocol−Id: PROTO_IPCOMP
SPI Size: 2
# of transfroms: 1
SPI: 68E9
Payload Transform
Next Payload: None
Reserved: 0000
Payload Length: 24
Transform #: 1
Transform−Id: IPCOMP_LZS
Reserved2: 0000
Encapsulation Mode: Tunnel
Life Type: Seconds
Life Duration (Hex): 0020C49B
```

```
Payload Proposal
Next Payload: Proposal
Reserved: 0000
Payload Length: 40
Proposal #: 11
Protocol−Id: PROTO_IPSEC_ESP
SPI Size: 4
# of transfroms: 1
SPI: 76AF9EAA
Payload Transform
Next Payload: None
Reserved: 0000
Payload Length: 28
Transform #: 1
Transform−Id: ESP_NULL
Reserved2: 0000
Authentication Algorithm: MD5
Encapsulation Mode: Tunnel
Life Type: Seconds
Life Duration (Hex): 0020C49B
Payload Proposal
Next Payload: None
Reserved: 0000
Payload Length: 40
Proposal #: 12
Protocol−Id: PROTO_IPSEC_ESP
SPI Size: 4
# of transfroms: 1
SPI: 76AF9EAA
Payload Transform
Next Payload: None
Reserved: 0000
Payload Length: 28
```

```
Transform #: 1

Transform-Id: ESP_NULL

Reserved2: 0000

Authentication Algorithm: SHA1

Encapsulation Mode: Tunnel

Life Type: Seconds

Life Duration (Hex): 0020C49B

Payload Nonce

Next Payload: Identification

Reserved: 0000

Payload Length: 24

Data: B63EA44802CE0827FDEEEEC71751188416F73CE30500000C

Payload Identification

Next Payload: Identification

Reserved: 0000

Payload Length: 12

ID Type: IPv4 Address

Protocol ID (UDP/TCP, etc...): 0

Port: 0

ID Data: 10.82.240.214

Payload Identification

Next Payload: None

Reserved: 0000

Payload Length: 12

ID Type: IPv4 Address

Protocol ID (UDP/TCP, etc...): 0

Port: 0

ID Data: 161.44.127.196


103 14:03:03.943 11/05/2001 Sev=Info/5 IKE/0x43000055

Received a key request from Driver for IP address
10.10.10.255, GW IP = 161.44.127.196

104 14:03:03.944 11/05/2001 Sev=Info/4 IKE/0x43000013

SENDING >>> ISAKMP OAK QM *(HASH, SA, NON, ID, ID)
```

```
to 161.44.127.196
105 14:03:03.947 11/05/2001 Sev=Decode/11 IKE/0x43000001
ISAKMP Header
Initiator COOKIE: DACB1B32139742E7
Responder COOKIE: 630E88F067C1B0B5
Next Payload: Hash
Ver: 10
Exchange Type: Quick Mode
Flags: (Encryption)
MessageID: F94C749C
Length: 469762048
Payload Hash
Next Payload: Security Association
Reserved: 0000
Payload Length: 20
Data: 7FEE58A44DA5DC279D9DE7D1C8651ED80A0002B8
Payload Security Association
Next Payload: Nonce
Reserved: 0000
Payload Length: 696
DOI: IPsec
Situation:(SIT_IDENTITY_ONLY)
Payload Proposal
Next Payload: Proposal
Reserved: 0000
Payload Length: 40
Proposal #: 1
Protocol−Id: PROTO_IPSEC_ESP
SPI Size: 4
# of transfroms: 1
SPI: 47269429
Payload Transform
Next Payload: None
```

```
Reserved: 0000
Payload Length: 28
Transform #: 1
Transform-Id: ESP_3DES
Reserved2: 0000
Authentication Algorithm: MD5
Encapsulation Mode: Tunnel
Life Type: Seconds
Life Duration (Hex): 0020C49B
Payload Proposal
Next Payload: Proposal
Reserved: 0000
Payload Length: 34
Proposal #: 1
Protocol-Id: PROTO_IPCOMP
SPI Size: 2
# of transfroms: 1
SPI: 37A9
Payload Transform
Next Payload: None
Reserved: 0000
Payload Length: 24
Transform #: 1
Transform-Id: IPCOMP_LZS
Reserved2: 0000
Encapsulation Mode: Tunnel
Life Type: Seconds
Life Duration (Hex): 0020C49B
Payload Proposal
Next Payload: Proposal
Reserved: 0000
Payload Length: 40
Proposal #: 2
```

```
Protocol−Id: PROTO_IPSEC_ESP
SPI Size: 4
# of transfroms: 1
SPI: 47269429
Payload Transform
Next Payload: None
Reserved: 0000
Payload Length: 28
Transform #: 1
Transform−Id: ESP_3DES
Reserved2: 0000
Authentication Algorithm: SHA1
Encapsulation Mode: Tunnel
Life Type: Seconds
Life Duration (Hex): 0020C49B
Payload Proposal
Next Payload: Proposal
Reserved: 0000
Payload Length: 34
Proposal #: 2
Protocol−Id: PROTO_IPCOMP
SPI Size: 2
# of transfroms: 1
SPI: D8C8
Payload Transform
Next Payload: None
Reserved: 0000
Payload Length: 24
Transform #: 1
Transform−Id: IPCOMP_LZS
Reserved2: 0000
Encapsulation Mode: Tunnel
Life Type: Seconds
Life Duration (Hex): 0020C49B
Payload Proposal
Next Payload: Proposal
Reserved: 0000
Payload Length: 40
Proposal #: 3
Protocol−Id: PROTO_IPSEC_ESP
SPI Size: 4
# of transfroms: 1
SPI: 47269429
Payload Transform
Next Payload: None
Reserved: 0000
Payload Length: 28
Transform #: 1
Transform−Id: ESP_3DES
Reserved2: 0000
Authentication Algorithm: MD5
Encapsulation Mode: Tunnel
Life Type: Seconds
Life Duration (Hex): 0020C49B
Payload Proposal
Next Payload: Proposal
Reserved: 0000
Payload Length: 40
Proposal #: 4
Protocol−Id: PROTO_IPSEC_ESP
SPI Size: 4
# of transfroms: 1
SPI: 47269429
Payload Transform
Next Payload: None
Reserved: 0000
```

```
Payload Length: 28

Transform #: 1

Transform−Id: ESP_3DES

Reserved2: 0000

Authentication Algorithm: SHA1

Encapsulation Mode: Tunnel

Life Type: Seconds

Life Duration (Hex): 0020C49B

Payload Proposal

Next Payload: Proposal

Reserved: 0000

Payload Length: 40

Proposal #: 5

Protocol−Id: PROTO_IPSEC_ESP

SPI Size: 4

# of transfroms: 1

SPI: 47269429

Payload Transform

Next Payload: None

Reserved: 0000

Payload Length: 28

Transform #: 1

Transform−Id: ESP_DES

Reserved2: 0000

Authentication Algorithm: MD5

Encapsulation Mode: Tunnel

Life Type: Seconds

Life Duration (Hex): 0020C49B

Payload Proposal

Next Payload: Proposal

Reserved: 0000

Payload Length: 34

Proposal #: 5
```

```
Protocol−Id: PROTO_IPCOMP

SPI Size: 2

# of transfroms: 1

SPI: B4AA

Payload Transform

Next Payload: None

Reserved: 0000

Payload Length: 24

Transform #: 1

Transform−Id: IPCOMP_LZS

Reserved2: 0000

Encapsulation Mode: Tunnel

Life Type: Seconds

Life Duration (Hex): 0020C49B

Payload Proposal

Next Payload: Proposal

Reserved: 0000

Payload Length: 40

Proposal #: 6

Protocol−Id: PROTO_IPSEC_ESP

SPI Size: 4

# of transfroms: 1

SPI: 47269429

Payload Transform

Next Payload: None

Reserved: 0000

Payload Length: 28

Transform #: 1

Transform−Id: ESP_DES

Reserved2: 0000

Authentication Algorithm: SHA1

Encapsulation Mode: Tunnel

Life Type: Seconds
Life Duration (Hex): 0020C49B

Payload Proposal

Next Payload: Proposal

Reserved: 0000

Payload Length: 34

Proposal #: 6

Protocol−Id: PROTO_IPCOMP

SPI Size: 2

# of transfroms: 1

SPI: 10D5

Payload Transform

Next Payload: None

Reserved: 0000

Payload Length: 24

Transform #: 1

Transform−Id: IPCOMP_LZS

Reserved2: 0000

Encapsulation Mode: Tunnel

Life Type: Seconds

Life Duration (Hex): 0020C49B

Payload Proposal

Next Payload: Proposal

Reserved: 0000

Payload Length: 40

Proposal #: 7

Protocol−Id: PROTO_IPSEC_ESP

SPI Size: 4

# of transfroms: 1

SPI: 47269429

Payload Transform

Next Payload: None

Reserved: 0000

Payload Length: 28
```

```
Transform #: 1
Transform−Id: ESP_DES
Reserved2: 0000
Authentication Algorithm: MD5
Encapsulation Mode: Tunnel
Life Type: Seconds
Life Duration (Hex): 0020C49B
Payload Proposal
Next Payload: Proposal
Reserved: 0000
Payload Length: 40
Proposal #: 8
Protocol−Id: PROTO_IPSEC_ESP
SPI Size: 4
# of transfroms: 1
SPI: 47269429
Payload Transform
Next Payload: None
Reserved: 0000
Payload Length: 28
Transform #: 1
Transform−Id: ESP_DES
Reserved2: 0000
Authentication Algorithm: SHA1
Encapsulation Mode: Tunnel
Life Type: Seconds
Life Duration (Hex): 0020C49B
Payload Proposal
Next Payload: Proposal
Reserved: 0000
Payload Length: 40
Proposal #: 9
Protocol−Id: PROTO_IPSEC_ESP
```

```
SPI Size: 4
# of transfroms: 1
SPI: 47269429
Payload Transform
Next Payload: None
Reserved: 0000
Payload Length: 28
Transform #: 1
Transform−Id: ESP_NULL
Reserved2: 0000
Authentication Algorithm: MD5
Encapsulation Mode: Tunnel
Life Type: Seconds
Life Duration (Hex): 0020C49B
Payload Proposal
Next Payload: Proposal
Reserved: 0000
Payload Length: 34
Proposal #: 9
Protocol−Id: PROTO_IPCOMP
SPI Size: 2
# of transfroms: 1
SPI: 6A1B
Payload Transform
Next Payload: None
Reserved: 0000
Payload Length: 24
Transform #: 1
Transform−Id: IPCOMP_LZS
Reserved2: 0000
Encapsulation Mode: Tunnel
Life Type: Seconds
Life Duration (Hex): 0020C49B
```

```
Payload Proposal

Next Payload: Proposal

Reserved: 0000

Payload Length: 40

Proposal #: 10

Protocol-Id: PROTO_IPSEC_ESP

SPI Size: 4

# of transfroms: 1

SPI: 47269429

Payload Transform

Next Payload: None

Reserved: 0000

Payload Length: 28

Transform #: 1

Transform-Id: ESP_NULL

Reserved2: 0000

Authentication Algorithm: SHA1

Encapsulation Mode: Tunnel

Life Type: Seconds

Life Duration (Hex): 0020C49B

Payload Proposal

Next Payload: Proposal

Reserved: 0000

Payload Length: 34

Proposal #: 10

Protocol-Id: PROTO_IPCOMP

SPI Size: 2

# of transfroms: 1

SPI: 784E

Payload Transform

Next Payload: None

Reserved: 0000

Payload Length: 24
```

```
Transform #: 1
Transform-Id: IPCOMP_LZS
Reserved2: 0000
Encapsulation Mode: Tunnel
Life Type: Seconds
Life Duration (Hex): 0020C49B
Payload Proposal
Next Payload: Proposal
Reserved: 0000
Payload Length: 40
Proposal #: 11
Protocol-Id: PROTO_IPSEC_ESP
SPI Size: 4
# of transfroms: 1
SPI: 47269429
Payload Transform
Next Payload: None
Reserved: 0000
Payload Length: 28
Transform #: 1
Transform-Id: ESP_NULL
Reserved2: 0000
Authentication Algorithm: MD5
Encapsulation Mode: Tunnel
Life Type: Seconds
Life Duration (Hex): 0020C49B
Payload Proposal
Next Payload: None
Reserved: 0000
Payload Length: 40
Proposal #: 12
Protocol-Id: PROTO_IPSEC_ESP
SPI Size: 4
```

```
# of transfroms: 1

SPI: 47269429

Payload Transform

Next Payload: None

Reserved: 0000

Payload Length: 28

Transform #: 1

Transform−Id: ESP_NULL

Reserved2: 0000

Authentication Algorithm: SHA1

Encapsulation Mode: Tunnel

Life Type: Seconds

Life Duration (Hex): 0020C49B

Payload Nonce

Next Payload: Identification

Reserved: 0000

Payload Length: 24

Data: DCDE51C03B32B7694D2125080EFD647FADD61DDC0500000C

Payload Identification

Next Payload: Identification

Reserved: 0000

Payload Length: 12

ID Type: IPv4 Address

Protocol ID (UDP/TCP, etc...): 0

Port: 0

ID Data: 10.82.240.214

Payload Identification

Next Payload: None

Reserved: 0000

Payload Length: 16

ID Type: IPv4 Subnet

Protocol ID (UDP/TCP, etc...): 0

Port: 0
```

```
ID Data: 0.0.0.0/0.0.0.0



106 14:03:03.948 11/05/2001 Sev=Debug/8 IKE/0x4300004B

Starting DPD timer for IKE SA* 081801C8, sa->state = 4,
sa->dpd_peer_enabled = 1, sa->dpd_timer = 081803FC,
sa->dpd.worry_freq = 5000

107 14:03:03.948 11/05/2001 Sev=Info/5 IKE/0x4300002F

Received ISAKMP packet: peer = 161.44.127.196

108 14:03:03.951 11/05/2001 Sev=Decode/11 IKE/0x43000001

ISAKMP Header

Initiator COOKIE: DACB1B32139742E7

Responder COOKIE: 630E88F067C1B0B5

Next Payload: Hash

Ver: 10

Exchange Type: Transaction

Flags: (Encryption)

MessageID: 67319719

Length: 236

PACKET MAY BE CORRUPT... RESERVED FIELD NOT SET TO ZERO

109 14:03:03.952 11/05/2001 Sev=Info/4 IKE/0x43000014

RECEIVING <<< ISAKMP OAK TRANS *(HASH, ) from 161.44.127.196

110 14:03:03.952 11/05/2001 Sev=Warning/3 IKE/0x83000057

Received malformed message or negotiation no longer active
(message id: 0x67319719)

111 14:03:03.952 11/05/2001 Sev=Info/5 IKE/0x4300002F

Received ISAKMP packet: peer = 161.44.127.196

112 14:03:03.955 11/05/2001 Sev=Decode/11 IKE/0x43000001

ISAKMP Header

Initiator COOKIE: DACB1B32139742E7

Responder COOKIE: 630E88F067C1B0B5

Next Payload: Hash

Ver: 10

Exchange Type: Transaction

Flags: (Encryption)

MessageID: 67319719
```

```
Length: 236

PACKET MAY BE CORRUPT... RESERVED FIELD NOT SET TO ZERO

113 14:03:03.955 11/05/2001 Sev=Info/4 IKE/0x43000014

RECEIVING <<< ISAKMP OAK TRANS *(HASH, ) from 161.44.127.196

114 14:03:03.955 11/05/2001 Sev=Warning/3 IKE/0x83000057

Received malformed message or negotiation no longer active
(message id: 0x67319719)

115 14:03:03.955 11/05/2001 Sev=Info/4 IPSEC/0x43700014

Deleted all keys

116 14:03:03.955 11/05/2001 Sev=Info/4 IPSEC/0x43700010

Created a new key structure

117 14:03:03.955 11/05/2001 Sev=Info/5 IKE/0x43000055

Received a key request from Driver for IP address 24.93.67.64,
GW IP = 161.44.127.196

118 14:03:03.955 11/05/2001 Sev=Warning/3 IKE/0xC3000002

Function initialize_qm failed with an error code of 0x00000000
(INITIATE:805)

119 14:03:03.990 11/05/2001 Sev=Info/5 IKE/0x4300002F

Received ISAKMP packet: peer = 161.44.127.196

120 14:03:03.993 11/05/2001 Sev=Decode/11 IKE/0x43000001

ISAKMP Header

Initiator COOKIE: DACB1B32139742E7

Responder COOKIE: 630E88F067C1B0B5

Next Payload: Hash

Ver: 10

Exchange Type: Informational

Flags: (Encryption)

MessageID: D10A6912

Length: 92

Payload Hash

Next Payload: Notification

Reserved: 0000

Payload Length: 20

Data: 52138C38D364E77DB5980565F7A8C8EF00000028
```

```
Payload Notification

Next Payload: None

Reserved: 0000

Payload Length: 40

DOI: IPsec

Protocol−ID: PROTO_ISAKMP

Spi Size: 16

Notify Type: STATUS_RESP_LIFETIME

SPI: DACB1B32139742E7630E88F067C1B0B5

Data: 800B0001000C000400015180



121 14:03:03.994 11/05/2001 Sev=Info/4 IKE/0x43000014

RECEIVING <<< ISAKMP OAK INFO *(HASH, NOTIFY:STATUS_RESP_LIFETIME)
from 161.44.127.196

122 14:03:03.994 11/05/2001 Sev=Info/5 IKE/0x43000044

RESPONDER−LIFETIME notify has value of 86400 seconds

123 14:03:03.994 11/05/2001 Sev=Info/5 IKE/0x43000046

This SA has already been alive for 38 seconds, setting expiry to
86362 seconds from now

124 14:03:03.994 11/05/2001 Sev=Info/5 IKE/0x4300002F

Received ISAKMP packet: peer = 161.44.127.196

125 14:03:03.997 11/05/2001 Sev=Decode/11 IKE/0x43000001

ISAKMP Header

Initiator COOKIE: DACB1B32139742E7

Responder COOKIE: 630E88F067C1B0B5

Next Payload: Hash

Ver: 10

Exchange Type: Quick Mode

Flags: (Encryption)

MessageID: BB351037

Length: 172

Payload Hash

Next Payload: Security Association

Reserved: 0000
```

```
Payload Length: 20
Data: 3A6CD2078E1F4CF6ACC2810A77A88BF90A000034
Payload Security Association
Next Payload: Nonce
Reserved: 0000
Payload Length: 52
DOI: IPsec
Situation:(SIT_IDENTITY_ONLY)
Payload Proposal
Next Payload: None
Reserved: 0000
Payload Length: 40
Proposal #: 1
Protocol−Id: PROTO_IPSEC_ESP
SPI Size: 4
# of transfroms: 1
SPI: 0C38AE25
Payload Transform
Next Payload: None
Reserved: 0000
Payload Length: 28
Transform #: 1
Transform−Id: ESP_3DES
Reserved2: 0000
Life Type: Seconds
Life Duration (Hex): 0020C49B
Encapsulation Mode: Tunnel
Authentication Algorithm: MD5
Payload Nonce
Next Payload: Identification
Reserved: 0000
Payload Length: 24
Data: 57184AEFF363B10FC00D05A543D6B0B01067274F0500000C
```

```
Payload Identification

Next Payload: Identification

Reserved: 0000

Payload Length: 12

ID Type: IPv4 Address

Protocol ID (UDP/TCP, etc...): 0

Port: 0

ID Data: 10.82.240.214

Payload Identification

Next Payload: Notification

Reserved: 0000

Payload Length: 12

ID Type: IPv4 Address

Protocol ID (UDP/TCP, etc...): 0

Port: 0

ID Data: 161.44.127.196

Payload Notification

Next Payload: None

Reserved: 0000

Payload Length: 24

DOI: IPsec

Protocol−ID: PROTO_IPSEC_ESP

Spi Size: 4

Notify Type: STATUS_RESP_LIFETIME

SPI: 0C38AE25

Data: 8001000180027080


126 14:03:03.997 11/05/2001 Sev=Info/4 IKE/0x43000014

RECEIVING <<< ISAKMP OAK QM *(HASH, SA, NON, ID, ID,
NOTIFY:STATUS_RESP_LIFETIME) from 161.44.127.196

127 14:03:03.997 11/05/2001 Sev=Info/5 IKE/0x43000044

RESPONDER−LIFETIME notify has value of 28800 seconds

128 14:03:03.997 11/05/2001 Sev=Info/4 IKE/0x43000013

SENDING >>> ISAKMP OAK QM *(HASH) to 161.44.127.196
```

```
129 14:03:03.1000 11/05/2001 Sev=Decode/11 IKE/0x43000001

ISAKMP Header

Initiator COOKIE: DACB1B32139742E7

Responder COOKIE: 630E88F067C1B0B5

Next Payload: Hash

Ver: 10

Exchange Type: Quick Mode

Flags: (Encryption)

MessageID: 371035BB

Length: 469762048

Payload Hash

Next Payload: None

Reserved: 0000

Payload Length: 20

Data: C2456940045DC9C608E0D4D6FA62822400000000

130 14:03:03.1000 11/05/2001 Sev=Info/5 IKE/0x43000058

Loading IPsec SA (Message ID = 0xBB351037 OUTBOUND SPI =
0x0C38AE25 INBOUND SPI = 0x76AF9EAA)

131 14:03:04.001 11/05/2001 Sev=Info/5 IKE/0x43000025

Loaded OUTBOUND ESP SPI: 0x0C38AE25

132 14:03:04.001 11/05/2001 Sev=Info/5 IKE/0x43000026

Loaded INBOUND ESP SPI: 0x76AF9EAA

133 14:03:04.001 11/05/2001 Sev=Info/4 CM/0x4310001A

One secure connection established

134 14:03:04.007 11/05/2001 Sev=Info/5 IKE/0x4300002F

Received ISAKMP packet: peer = 161.44.127.196

135 14:03:04.010 11/05/2001 Sev=Decode/11 IKE/0x43000001

ISAKMP Header

Initiator COOKIE: DACB1B32139742E7

Responder COOKIE: 630E88F067C1B0B5

Next Payload: Hash

Ver: 10

Exchange Type: Quick Mode
```

```
Flags: (Encryption)

MessageID: 9C744CF9

Length: 180

Payload Hash

Next Payload: Security Association

Reserved: 0000

Payload Length: 20

Data: 4591C989262C4F863FD2DC911E7DBA900A000034

Payload Security Association

Next Payload: Nonce

Reserved: 0000

Payload Length: 52

DOI: IPsec

Situation:(SIT_IDENTITY_ONLY)

Payload Proposal

Next Payload: None

Reserved: 0000

Payload Length: 40

Proposal #: 1

Protocol-Id: PROTO_IPSEC_ESP

SPI Size: 4

# of transfroms: 1

SPI: 503F4CC5

Payload Transform

Next Payload: None

Reserved: 0000

Payload Length: 28

Transform #: 1

Transform-Id: ESP_3DES

Reserved2: 0000

Life Type: Seconds

Life Duration (Hex): 0020C49B

Encapsulation Mode: Tunnel
```

```
Authentication Algorithm: MD5

Payload Nonce

Next Payload: Identification

Reserved: 0000

Payload Length: 24

Data: 4DD4873137DD4765208FFCE6087D30A48FA9634F0500000C

Payload Identification

Next Payload: Identification

Reserved: 0000

Payload Length: 12

ID Type: IPv4 Address

Protocol ID (UDP/TCP, etc...): 0

Port: 0

ID Data: 10.82.240.214

Payload Identification

Next Payload: Notification

Reserved: 0000

Payload Length: 16

ID Type: IPv4 Subnet

Protocol ID (UDP/TCP, etc...): 0

Port: 0

ID Data: 0.0.0.0/0.0.0.0

Payload Notification

Next Payload: None

Reserved: 0000

Payload Length: 24

DOI: IPsec

Protocol-ID: PROTO_IPSEC_ESP

Spi Size: 4

Notify Type: STATUS_RESP_LIFETIME

SPI: 503F4CC5

Data: 8001000180027080
```

```
136 14:03:04.011 11/05/2001 Sev=Info/4 IKE/0x43000014

RECEIVING <<< ISAKMP OAK QM *(HASH, SA, NON, ID, ID,
NOTIFY:STATUS_RESP_LIFETIME) from 161.44.127.196

137 14:03:04.011 11/05/2001 Sev=Info/5 IKE/0x43000044

RESPONDER−LIFETIME notify has value of 28800 seconds

138 14:03:04.011 11/05/2001 Sev=Info/4 IKE/0x43000013

SENDING >>> ISAKMP OAK QM *(HASH) to 161.44.127.196

139 14:03:04.014 11/05/2001 Sev=Decode/11 IKE/0x43000001

ISAKMP Header

Initiator COOKIE: DACB1B32139742E7

Responder COOKIE: 630E88F067C1B0B5

Next Payload: Hash

Ver: 10

Exchange Type: Quick Mode

Flags: (Encryption)

MessageID: F94C749C

Length: 469762048

Payload Hash

Next Payload: None

Reserved: 0000

Payload Length: 20

Data: 8AF3A2608A24AB1FB8C8ECA82B2CC99200000000

140 14:03:04.014 11/05/2001 Sev=Info/5 IKE/0x43000058

Loading IPsec SA (Message ID = 0x9C744CF9 OUTBOUND SPI =
0x503F4CC5 INBOUND SPI = 0x47269429)

141 14:03:04.015 11/05/2001 Sev=Info/5 IKE/0x43000025

Loaded OUTBOUND ESP SPI: 0x503F4CC5

142 14:03:04.015 11/05/2001 Sev=Info/5 IKE/0x43000026

Loaded INBOUND ESP SPI: 0x47269429

143 14:03:04.015 11/05/2001 Sev=Info/4 CM/0x43100022

Additional Phase 2 SA established.

144 14:03:05.018 11/05/2001 Sev=Info/4 IPSEC/0x43700010

Created a new key structure

145 14:03:05.018 11/05/2001 Sev=Info/4 IPSEC/0x4370000F
```

```
Added key with SPI=0x25ae380c into key list

146 14:03:05.018 11/05/2001 Sev=Info/4 IPSEC/0x43700010

Created a new key structure

147 14:03:05.018 11/05/2001 Sev=Info/4 IPSEC/0x4370000F

Added key with SPI=0xaa9eaf76 into key list

148 14:03:05.018 11/05/2001 Sev=Info/4 IPSEC/0x4370000F

Added key with SPI=0xc54c3f50 into key list

149 14:03:05.019 11/05/2001 Sev=Info/4 IPSEC/0x43700010

Created a new key structure

150 14:03:05.019 11/05/2001 Sev=Info/4 IPSEC/0x4370000F

Added key with SPI=0x29942647 into key list

151 14:03:55.528 11/05/2001 Sev=Info/6 IKE/0x4300003D

Sending DPD request to 161.44.127.196, seq# = 1153554501

152 14:03:55.529 11/05/2001 Sev=Info/4 IKE/0x43000013

SENDING >>> ISAKMP OAK INFO *(HASH, NOTIFY:DPD_REQUEST)
to 161.44.127.196

153 14:03:55.531 11/05/2001 Sev=Decode/11 IKE/0x43000001

ISAKMP Header

Initiator COOKIE: DACB1B32139742E7

Responder COOKIE: 630E88F067C1B0B5

Next Payload: Hash

Ver: 10

Exchange Type: Informational

Flags: (Encryption)

MessageID: 791ED04C

Length: 469762048

Payload Hash

Next Payload: Notification

Reserved: 0000

Payload Length: 20

Data: C0E66CDA100E9C77C75A46AD3AECA51C00000020

Payload Notification

Next Payload: None

Reserved: 0000
```

```
Payload Length: 32

DOI: IPsec

Protocol−ID: PROTO_ISAKMP

Spi Size: 16

Notify Type: DPD_R_U_THERE

SPI: DACB1B32139742E7630E88F067C1B0B5

Data: 44C1D845


154 14:03:55.532 11/05/2001 Sev=Info/4 IKE/0x43000013

SENDING >>> ISAKMP OAK INFO *(HASH, NOTIFY:HEARTBEAT)
to 161.44.127.196

155 14:03:55.535 11/05/2001 Sev=Decode/11 IKE/0x43000001

ISAKMP Header

Initiator COOKIE: DACB1B32139742E7

Responder COOKIE: 630E88F067C1B0B5

Next Payload: Hash

Ver: 10

Exchange Type: Informational

Flags: (Encryption)

MessageID: 68218ECF

Length: 469762048

Payload Hash

Next Payload: Notification

Reserved: 0000

Payload Length: 20

Data: E705E1CE2854A92CA7DEC4C04AB6654B0000001C

Payload Notification

Next Payload: None

Reserved: 0000

Payload Length: 28

DOI: IPsec

Protocol−ID: PROTO_ISAKMP

Spi Size: 16
```

```
Notify Type: STATUS_ALTIGA_KEEPALIVE

SPI: DACB1B32139742E7630E88F067C1B0B5

Data:


156 14:03:55.535 11/05/2001 Sev=Info/6 IKE/0x43000052

Sent a ping on the IKE SA

157 14:03:55.575 11/05/2001 Sev=Info/5 IKE/0x4300002F

Received ISAKMP packet: peer = 161.44.127.196

158 14:03:55.578 11/05/2001 Sev=Decode/11 IKE/0x43000001

ISAKMP Header

Initiator COOKIE: DACB1B32139742E7

Responder COOKIE: 630E88F067C1B0B5

Next Payload: Hash

Ver: 10

Exchange Type: Informational

Flags: (Encryption)

MessageID: E63FE567

Length: 84

Payload Hash

Next Payload: Notification

Reserved: 0000

Payload Length: 20

Data: FD8DA190626611087DD2B8DC3DDDE72900000020

Payload Notification

Next Payload: None

Reserved: 0000

Payload Length: 32

DOI: IPsec

Protocol−ID: PROTO_ISAKMP

Spi Size: 16

Notify Type: DPD_R_U_THERE_ACK

SPI: DACB1B32139742E7630E88F067C1B0B5

Data: 44C1D845
```

```
159 14:03:55.579 11/05/2001 Sev=Info/4 IKE/0x43000014

RECEIVING <<< ISAKMP OAK INFO *(HASH, NOTIFY:DPD_ACK)
from 161.44.127.196

160 14:03:55.579 11/05/2001 Sev=Info/5 IKE/0x4300003F

Received DPD ACK from 161.44.127.196, seq# received =
1153554501, seq# expected = 1153554501
```

VPN 3000 Concentrator

```
1 11/05/2001 14:18:18.630 SEV=8 IKEDBG/0 RPT=199 172.18.124.241
RECEIVED Message (msgid=0) with payloads :
HDR + SA (1) + KE (4) + NONCE (10) + ID (5) + VENDOR (13)
+ VENDOR (13) + VENDOR
(13) + NONE (0) ... total length : 562

4 11/05/2001 14:18:18.630 SEV=9 IKEDBG/0 RPT=200 172.18.124.241

processing SA payload

5 11/05/2001 14:18:18.630 SEV=9 IKEDBG/0 RPT=201 172.18.124.241

processing ke payload

6 11/05/2001 14:18:18.630 SEV=9 IKEDBG/0 RPT=202 172.18.124.241

processing ISA_KE

7 11/05/2001 14:18:18.630 SEV=9 IKEDBG/1 RPT=59 172.18.124.241

processing nonce payload

8 11/05/2001 14:18:18.630 SEV=9 IKEDBG/1 RPT=60 172.18.124.241

Processing ID

9 11/05/2001 14:18:18.630 SEV=9 IKEDBG/47 RPT=38 172.18.124.241

processing VID payload

10 11/05/2001 14:18:18.630 SEV=9 IKEDBG/49 RPT=37 172.18.124.241

Received xauth V6 VID

11 11/05/2001 14:18:18.630 SEV=9 IKEDBG/47 RPT=39 172.18.124.241

processing VID payload

12 11/05/2001 14:18:18.630 SEV=9 IKEDBG/49 RPT=38 172.18.124.241

Received DPD VID

13 11/05/2001 14:18:18.630 SEV=9 IKEDBG/47 RPT=40 172.18.124.241

processing VID payload

14 11/05/2001 14:18:18.630 SEV=9 IKEDBG/49 RPT=39 172.18.124.241

Received Cisco Unity client VID

15 11/05/2001 14:18:18.630 SEV=9 IKEDBG/23 RPT=12 172.18.124.241
```

```
Starting group lookup for peer 172.18.124.241

16 11/05/2001 14:18:18.630 SEV=8 AUTHDBG/1 RPT=4
AUTH_Open() returns 3

17 11/05/2001 14:18:18.630 SEV=7 AUTH/12 RPT=4
Authentication session opened: handle = 3

18 11/05/2001 14:18:18.630 SEV=8 AUTHDBG/3 RPT=6
AUTH_PutAttrTable(3, 61ea34)

19 11/05/2001 14:18:18.630 SEV=8 AUTHDBG/6 RPT=3
AUTH_GroupAuthenticate(3, 51a88f0, 431480)

20 11/05/2001 14:18:18.630 SEV=8 AUTHDBG/59 RPT=6
AUTH_BindServer(511a7bc, 0, 0)

21 11/05/2001 14:18:18.630 SEV=9 AUTHDBG/69 RPT=6
Auth Server e3199c has been bound to ACB 511a7bc,
sessions = 1

22 11/05/2001 14:18:18.630 SEV=8 AUTHDBG/65 RPT=6
AUTH_CreateTimer(511a7bc, 0, 0)

23 11/05/2001 14:18:18.630 SEV=9 AUTHDBG/72 RPT=6
Reply timer created: handle = 340017

24 11/05/2001 14:18:18.630 SEV=8 AUTHDBG/61 RPT=6
AUTH_BuildMsg(511a7bc, 0, 0)

25 11/05/2001 14:18:18.630 SEV=8 AUTHDBG/64 RPT=6
AUTH_StartTimer(511a7bc, 0, 0)

26 11/05/2001 14:18:18.630 SEV=9 AUTHDBG/73 RPT=6
Reply timer started: handle = 340017, timestamp = 97010941,
timeout = 30000

27 11/05/2001 14:18:18.630 SEV=8 AUTHDBG/62 RPT=6
AUTH_SndRequest(511a7bc, 0, 0)

28 11/05/2001 14:18:18.630 SEV=8 AUTHDBG/50 RPT=11
IntDB_Decode(37f34d0, 115)

29 11/05/2001 14:18:18.630 SEV=8 AUTHDBG/47 RPT=11
IntDB_Xmt(511a7bc)

30 11/05/2001 14:18:18.630 SEV=9 AUTHDBG/71 RPT=6
xmit_cnt = 1

31 11/05/2001 14:18:18.630 SEV=8 AUTHDBG/47 RPT=12
IntDB_Xmt(511a7bc)

32 11/05/2001 14:18:18.730 SEV=8 AUTHDBG/49 RPT=6
IntDB_Match(511a7bc, 2f1a854)

33 11/05/2001 14:18:18.730 SEV=8 AUTHDBG/63 RPT=6
AUTH_RcvReply(511a7bc, 0, 0)

34 11/05/2001 14:18:18.730 SEV=8 AUTHDBG/50 RPT=12
IntDB_Decode(2f1a854, 104)

35 11/05/2001 14:18:18.730 SEV=8 AUTHDBG/48 RPT=6
IntDB_Rcv(511a7bc)

36 11/05/2001 14:18:18.730 SEV=8 AUTHDBG/66 RPT=6
AUTH_DeleteTimer(511a7bc, 0, 0)
```

```
37 11/05/2001 14:18:18.730 SEV=9 AUTHDBG/74 RPT=6
Reply timer stopped: handle = 340017, timestamp = 97010951

38 11/05/2001 14:18:18.730 SEV=8 AUTHDBG/58 RPT=6
AUTH_Callback(511a7bc, 0, 0)

39 11/05/2001 14:18:18.730 SEV=6 AUTH/39 RPT=5 172.18.124.241
Authentication successful: handle = 3, server = Internal,
group = ipsecgroup

40 11/05/2001 14:18:18.730 SEV=7 IKEDBG/0 RPT=203 172.18.124.241
Group [ipsecgroup]
Found Phase 1 Group (ipsecgroup)

41 11/05/2001 14:18:18.730 SEV=8 AUTHDBG/4 RPT=4
AUTH_GetAttrTable(3, 61ea7c)

42 11/05/2001 14:18:18.730 SEV=7 IKEDBG/14 RPT=4 172.18.124.241
Group [ipsecgroup]
Authentication configured for Internal

43 11/05/2001 14:18:18.730 SEV=8 AUTHDBG/2 RPT=4
AUTH_Close(3)

44 11/05/2001 14:18:18.730 SEV=9 IKEDBG/0 RPT=204 172.18.124.241
Group [ipsecgroup]
processing IKE SA

45 11/05/2001 14:18:18.730 SEV=8 IKEDBG/0 RPT=205 172.18.124.241
Group [ipsecgroup]
Proposal # 1, Transform # 1, Type ISAKMP, Id IKE
Parsing received transform:
Phase 1 failure against global IKE proposal # 1:
Mismatched attr types for class Hash Alg:
Rcv'd: SHA
Cfg'd: MD5

50 11/05/2001 14:18:18.730 SEV=8 IKEDBG/0 RPT=206 172.18.124.241
Group [ipsecgroup]
Phase 1 failure against global IKE proposal # 2:
Mismatched attr types for class Hash Alg:
Rcv'd: SHA
Cfg'd: MD5

53 11/05/2001 14:18:18.730 SEV=8 IKEDBG/0 RPT=207 172.18.124.241
Group [ipsecgroup]
Phase 1 failure against global IKE proposal # 3:
Mismatched attr types for class Hash Alg:
Rcv'd: SHA
Cfg'd: MD5

56 11/05/2001 14:18:18.730 SEV=8 IKEDBG/0 RPT=208 172.18.124.241
Group [ipsecgroup]
Phase 1 failure against global IKE proposal # 4:
Mismatched attr types for class DH Group:
Rcv'd: Oakley Group 2
Cfg'd: Oakley Group 1

60 11/05/2001 14:18:18.730 SEV=8 IKEDBG/0 RPT=209 172.18.124.241
Group [ipsecgroup]
Phase 1 failure against global IKE proposal # 5:
Mismatched attr types for class DH Group:
Rcv'd: Oakley Group 2
Cfg'd: Oakley Group 1
```

```
64 11/05/2001 14:18:18.730 SEV=8 IKEDBG/0 RPT=210 172.18.124.241
Group [ipsecgroup]
Phase 1 failure against global IKE proposal # 6:
Mismatched attr types for class DH Group:
Rcv'd: Oakley Group 2
Cfg'd: Oakley Group 7

68 11/05/2001 14:18:18.730 SEV=7 IKEDBG/28 RPT=4 172.18.124.241
Group [ipsecgroup]
IKE SA Proposal # 1, Transform # 2 acceptable
Matches global IKE entry # 1

70 11/05/2001 14:18:18.730 SEV=8 AUTHDBG/60 RPT=6
AUTH_UnbindServer(511a7bc, 0, 0)

71 11/05/2001 14:18:18.730 SEV=9 AUTHDBG/70 RPT=6
Auth Server e3199c has been unbound from ACB 511a7bc, sessions = 0

72 11/05/2001 14:18:18.730 SEV=8 AUTHDBG/10 RPT=4
AUTH_Int_FreeAuthCB(511a7bc)

73 11/05/2001 14:18:18.730 SEV=9 AUTHDBG/19 RPT=4
instance = 4, clone_instance = 0

74 11/05/2001 14:18:18.730 SEV=7 AUTH/13 RPT=4
Authentication session closed: handle = 3

75 11/05/2001 14:18:18.760 SEV=9 IKEDBG/0 RPT=211 172.18.124.241
Group [ipsecgroup]
constructing ISA_SA for isakmp

76 11/05/2001 14:18:18.760 SEV=9 IKEDBG/0 RPT=212 172.18.124.241
Group [ipsecgroup]
constructing ke payload

77 11/05/2001 14:18:18.760 SEV=9 IKEDBG/1 RPT=61 172.18.124.241
Group [ipsecgroup]
constructing nonce payload

78 11/05/2001 14:18:18.760 SEV=9 IKE/0 RPT=5 172.18.124.241
Group [ipsecgroup]
Generating keys for Responder...

79 11/05/2001 14:18:18.760 SEV=9 IKEDBG/1 RPT=62 172.18.124.241
Group [ipsecgroup]
constructing ID

80 11/05/2001 14:18:18.760 SEV=9 IKEDBG/0 RPT=213
Group [ipsecgroup]
construct hash payload

81 11/05/2001 14:18:18.760 SEV=9 IKEDBG/0 RPT=214 172.18.124.241
Group [ipsecgroup]
computing hash

82 11/05/2001 14:18:18.760 SEV=9 IKEDBG/46 RPT=12 172.18.124.241
Group [ipsecgroup]
constructing Cisco Unity VID payload

83 11/05/2001 14:18:18.760 SEV=9 IKEDBG/46 RPT=13 172.18.124.241
Group [ipsecgroup]
constructing xauth V6 VID payload

84 11/05/2001 14:18:18.760 SEV=9 IKEDBG/46 RPT=14 172.18.124.241
Group [ipsecgroup]
constructing dpd vid payload
```

```
85 11/05/2001 14:18:18.760 SEV=9 IKEDBG/46 RPT=15 172.18.124.241
Group [ipsecgroup]
constructing VID payload

86 11/05/2001 14:18:18.760 SEV=9 IKEDBG/48 RPT=5 172.18.124.241
Group [ipsecgroup]
Send Altiga GW VID

87 11/05/2001 14:18:18.760 SEV=8 IKEDBG/0 RPT=215 172.18.124.241
SENDING Message (msgid=0) with payloads :
HDR + SA (1) ... total length : 344

88 11/05/2001 14:18:18.790 SEV=8 IKEDBG/0 RPT=216 172.18.124.241
RECEIVED Message (msgid=0) with payloads :
HDR + HASH (8) + NOTIFY (11) + NONE (0) ... total length : 76

90 11/05/2001 14:18:18.790 SEV=9 IKEDBG/0 RPT=217 172.18.124.241
Group [ipsecgroup]
processing hash

91 11/05/2001 14:18:18.790 SEV=9 IKEDBG/0 RPT=218 172.18.124.241
Group [ipsecgroup]
computing hash

92 11/05/2001 14:18:18.790 SEV=9 IKEDBG/0 RPT=219 172.18.124.241
Group [ipsecgroup]
Processing Notify payload

93 11/05/2001 14:18:18.790 SEV=9 IKEDBG/0 RPT=220 172.18.124.241
Group [ipsecgroup]
constructing blank hash

94 11/05/2001 14:18:18.790 SEV=9 IKEDBG/0 RPT=221 172.18.124.241
Group [ipsecgroup]
constructing qm hash

95 11/05/2001 14:18:18.790 SEV=8 IKEDBG/0 RPT=222 172.18.124.241
SENDING Message (msgid=6ea8e2bc) with payloads :
HDR + HASH (8) ... total length : 100

97 11/05/2001 14:18:23.290 SEV=8 IKEDBG/0 RPT=223 172.18.124.241
RECEIVED Message (msgid=6ea8e2bc) with payloads :
HDR + HASH (8) + ATTR (14) + NONE (0) ... total length : 85

99 11/05/2001 14:18:23.290 SEV=9 IKEDBG/1 RPT=63
process_attr(): Enter!

100 11/05/2001 14:18:23.290 SEV=9 IKEDBG/1 RPT=64
Processing cfg reply attributes.

101 11/05/2001 14:18:23.290 SEV=8 AUTHDBG/1 RPT=5
AUTH_Open() returns 4

102 11/05/2001 14:18:23.290 SEV=7 AUTH/12 RPT=5
Authentication session opened: handle = 4

103 11/05/2001 14:18:23.290 SEV=8 AUTHDBG/3 RPT=7
AUTH_PutAttrTable(4, 61ea34)

104 11/05/2001 14:18:23.290 SEV=8 AUTHDBG/5 RPT=2
AUTH_Authenticate(4, 2f1b480, 460ec0)

105 11/05/2001 14:18:23.290 SEV=8 AUTHDBG/59 RPT=7
AUTH_BindServer(511760c, 0, 0)
```

```
106 11/05/2001 14:18:23.290 SEV=9 AUTHDBG/69 RPT=7
Auth Server e3199c has been bound to ACB 511760c,
sessions = 1

107 11/05/2001 14:18:23.290 SEV=8 AUTHDBG/65 RPT=7
AUTH_CreateTimer(511760c, 0, 0)

108 11/05/2001 14:18:23.290 SEV=9 AUTHDBG/72 RPT=7
Reply timer created: handle = 360014

109 11/05/2001 14:18:23.290 SEV=8 AUTHDBG/61 RPT=7
AUTH_BuildMsg(511760c, 0, 0)

110 11/05/2001 14:18:23.290 SEV=8 AUTHDBG/64 RPT=7
AUTH_StartTimer(511760c, 0, 0)

111 11/05/2001 14:18:23.290 SEV=9 AUTHDBG/73 RPT=7
Reply timer started: handle = 360014, timestamp =
97011407, timeout = 30000

112 11/05/2001 14:18:23.290 SEV=8 AUTHDBG/62 RPT=7
AUTH_SndRequest(511760c, 0, 0)

113 11/05/2001 14:18:23.290 SEV=8 AUTHDBG/50 RPT=13
IntDB_Decode(37f34d0, 102)

114 11/05/2001 14:18:23.290 SEV=8 AUTHDBG/47 RPT=13
IntDB_Xmt(511760c)

115 11/05/2001 14:18:23.290 SEV=9 AUTHDBG/71 RPT=7
xmit_cnt = 1

116 11/05/2001 14:18:23.290 SEV=8 AUTHDBG/47 RPT=14
IntDB_Xmt(511760c)

117 11/05/2001 14:18:23.390 SEV=8 AUTHDBG/49 RPT=7
IntDB_Match(511760c, 2f1bb8c)

118 11/05/2001 14:18:23.390 SEV=8 AUTHDBG/63 RPT=7
AUTH_RcvReply(511760c, 0, 0)

119 11/05/2001 14:18:23.390 SEV=8 AUTHDBG/50 RPT=14
IntDB_Decode(2f1bb8c, 116)

120 11/05/2001 14:18:23.390 SEV=8 AUTHDBG/48 RPT=7
IntDB_Rcv(511760c)

121 11/05/2001 14:18:23.390 SEV=8 AUTHDBG/66 RPT=7
AUTH_DeleteTimer(511760c, 0, 0)

122 11/05/2001 14:18:23.390 SEV=9 AUTHDBG/74 RPT=7
Reply timer stopped: handle = 360014, timestamp = 97011417

123 11/05/2001 14:18:23.390 SEV=8 AUTHDBG/58 RPT=7
AUTH_Callback(511760c, 0, 0)

124 11/05/2001 14:18:23.390 SEV=6 AUTH/4 RPT=2 172.18.124.241
Authentication successful: handle = 4, server =
Internal, user = ipsecuser

125 11/05/2001 14:18:23.390 SEV=8 AUTHDBG/3 RPT=8
AUTH_PutAttrTable(4, f0d688)

126 11/05/2001 14:18:23.390 SEV=8 AUTHDBG/60 RPT=7
AUTH_UnbindServer(511760c, 0, 0)
```

```
127 11/05/2001 14:18:23.390 SEV=9 AUTHDBG/70 RPT=7
Auth Server e3199c has been unbound from ACB 511760c,
sessions = 0

128 11/05/2001 14:18:23.390 SEV=8 AUTHDBG/59 RPT=8
AUTH_BindServer(511760c, 0, 0)

129 11/05/2001 14:18:23.390 SEV=9 AUTHDBG/69 RPT=8
Auth Server e3199c has been bound to ACB 511760c,
sessions = 1

130 11/05/2001 14:18:23.390 SEV=8 AUTHDBG/65 RPT=8
AUTH_CreateTimer(511760c, 0, 0)

131 11/05/2001 14:18:23.390 SEV=9 AUTHDBG/72 RPT=8
Reply timer created: handle = 370014

132 11/05/2001 14:18:23.390 SEV=8 AUTHDBG/61 RPT=8
AUTH_BuildMsg(511760c, 0, 0)

133 11/05/2001 14:18:23.390 SEV=8 AUTHDBG/64 RPT=8
AUTH_StartTimer(511760c, 0, 0)

134 11/05/2001 14:18:23.390 SEV=9 AUTHDBG/73 RPT=8
Reply timer started: handle = 370014, timestamp =
97011417, timeout = 30000

135 11/05/2001 14:18:23.390 SEV=8 AUTHDBG/62 RPT=8
AUTH_SndRequest(511760c, 0, 0)

136 11/05/2001 14:18:23.390 SEV=8 AUTHDBG/50 RPT=15
IntDB_Decode(1f9d5b8, 44)

137 11/05/2001 14:18:23.390 SEV=8 AUTHDBG/47 RPT=15
IntDB_Xmt(511760c)

138 11/05/2001 14:18:23.390 SEV=9 AUTHDBG/71 RPT=8
xmit_cnt = 1

139 11/05/2001 14:18:23.390 SEV=8 AUTHDBG/47 RPT=16
IntDB_Xmt(511760c)

140 11/05/2001 14:18:23.490 SEV=8 AUTHDBG/49 RPT=8
IntDB_Match(511760c, 2f1af60)

141 11/05/2001 14:18:23.490 SEV=8 AUTHDBG/63 RPT=8
AUTH_RcvReply(511760c, 0, 0)

142 11/05/2001 14:18:23.490 SEV=8 AUTHDBG/50 RPT=16
IntDB_Decode(2f1af60, 104)

143 11/05/2001 14:18:23.490 SEV=8 AUTHDBG/48 RPT=8
IntDB_Rcv(511760c)

144 11/05/2001 14:18:23.490 SEV=8 AUTHDBG/66 RPT=8
AUTH_DeleteTimer(511760c, 0, 0)

145 11/05/2001 14:18:23.490 SEV=9 AUTHDBG/74 RPT=8
Reply timer stopped: handle = 370014, timestamp =
97011427

146 11/05/2001 14:18:23.490 SEV=8 AUTHDBG/58 RPT=8
AUTH_Callback(511760c, 0, 0)

147 11/05/2001 14:18:23.490 SEV=6 AUTH/39 RPT=6
172.18.124.241
```

```
Authentication successful: handle = 4, server =
Internal, group = ipsecgroup

148 11/05/2001 14:18:23.490 SEV=8 AUTHDBG/3 RPT=9
AUTH_PutAttrTable(4, f0d688)

149 11/05/2001 14:18:23.490 SEV=8 AUTHDBG/60 RPT=8
AUTH_UnbindServer(511760c, 0, 0)

150 11/05/2001 14:18:23.490 SEV=9 AUTHDBG/70 RPT=8
Auth Server e3199c has been unbound from ACB 511760c,
sessions = 0

151 11/05/2001 14:18:23.490 SEV=8 AUTHDBG/59 RPT=9
AUTH_BindServer(511760c, 0, 0)

152 11/05/2001 14:18:23.490 SEV=9 AUTHDBG/69 RPT=9
Auth Server e3199c has been bound to ACB 511760c,
sessions = 1

153 11/05/2001 14:18:23.490 SEV=8 AUTHDBG/65 RPT=9
AUTH_CreateTimer(511760c, 0, 0)

154 11/05/2001 14:18:23.490 SEV=9 AUTHDBG/72 RPT=9
Reply timer created: handle = 380014

155 11/05/2001 14:18:23.490 SEV=8 AUTHDBG/61 RPT=9
AUTH_BuildMsg(511760c, 0, 0)

156 11/05/2001 14:18:23.490 SEV=8 AUTHDBG/64 RPT=9
AUTH_StartTimer(511760c, 0, 0)

157 11/05/2001 14:18:23.490 SEV=9 AUTHDBG/73 RPT=9
Reply timer started: handle = 380014, timestamp =
97011427, timeout = 30000

158 11/05/2001 14:18:23.490 SEV=8 AUTHDBG/62 RPT=9
AUTH_SndRequest(511760c, 0, 0)

159 11/05/2001 14:18:23.490 SEV=8 AUTHDBG/50 RPT=17
IntDB_Decode(1fe8cc0, 44)

160 11/05/2001 14:18:23.490 SEV=8 AUTHDBG/47 RPT=17
IntDB_Xmt(511760c)

161 11/05/2001 14:18:23.490 SEV=9 AUTHDBG/71 RPT=9
xmit_cnt = 1

162 11/05/2001 14:18:23.490 SEV=8 AUTHDBG/47 RPT=18
IntDB_Xmt(511760c)

163 11/05/2001 14:18:23.590 SEV=8 AUTHDBG/49 RPT=9
IntDB_Match(511760c, 2f1a99c)

164 11/05/2001 14:18:23.590 SEV=8 AUTHDBG/63 RPT=9
AUTH_RcvReply(511760c, 0, 0)

165 11/05/2001 14:18:23.590 SEV=8 AUTHDBG/50 RPT=18
IntDB_Decode(2f1a99c, 104)

166 11/05/2001 14:18:23.590 SEV=8 AUTHDBG/48 RPT=9
IntDB_Rcv(511760c)

167 11/05/2001 14:18:23.590 SEV=8 AUTHDBG/66 RPT=9
AUTH_DeleteTimer(511760c, 0, 0)
```

```
168 11/05/2001 14:18:23.590 SEV=9 AUTHDBG/74 RPT=9
Reply timer stopped: handle = 380014, timestamp =
97011437

169 11/05/2001 14:18:23.590 SEV=8 AUTHDBG/58 RPT=9
AUTH_Callback(511760c, 0, 0)

170 11/05/2001 14:18:23.590 SEV=6 AUTH/39 RPT=7
172.18.124.241
Authentication successful: handle = 4, server =
Internal, group = ipsecgroup

171 11/05/2001 14:18:23.590 SEV=8 AUTHDBG/4 RPT=5
AUTH_GetAttrTable(4, 61ea7c)

172 11/05/2001 14:18:23.590 SEV=7 IKEDBG/14 RPT=5
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
Authentication configured for Internal

173 11/05/2001 14:18:23.590 SEV=8 AUTHDBG/2 RPT=5
AUTH_Close(4)

174 11/05/2001 14:18:23.590 SEV=4 IKE/52 RPT=2
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
User (ipsecuser) authenticated.

175 11/05/2001 14:18:23.590 SEV=9 IKEDBG/0 RPT=224
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
constructing blank hash

176 11/05/2001 14:18:23.590 SEV=9 IKEDBG/0 RPT=225
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
constructing qm hash

177 11/05/2001 14:18:23.590 SEV=8 IKEDBG/0 RPT=226
172.18.124.241
SENDING Message (msgid=938074b7) with payloads :
HDR + HASH (8) ... total length : 60

179 11/05/2001 14:18:23.590 SEV=8 AUTHDBG/60 RPT=9
AUTH_UnbindServer(511760c, 0, 0)

180 11/05/2001 14:18:23.590 SEV=9 AUTHDBG/70 RPT=9
Auth Server e3199c has been unbound from ACB 511760c,
sessions = 0

181 11/05/2001 14:18:23.590 SEV=8 AUTHDBG/10 RPT=5
AUTH_Int_FreeAuthCB(511760c)

182 11/05/2001 14:18:23.590 SEV=9 AUTHDBG/19 RPT=5
instance = 5, clone_instance = 0

183 11/05/2001 14:18:23.590 SEV=7 AUTH/13 RPT=5
Authentication session closed: handle = 4

184 11/05/2001 14:18:23.600 SEV=8 IKEDBG/0 RPT=227
172.18.124.241
RECEIVED Message (msgid=938074b7) with payloads :
HDR + HASH (8) + ATTR (14) + NONE (0) ... total length : 56

186 11/05/2001 14:18:23.600 SEV=9 IKEDBG/1 RPT=65
process_attr(): Enter!
```

```
187 11/05/2001 14:18:23.600 SEV=9 IKEDBG/1 RPT=66
Processing cfg ACK attributes

188 11/05/2001 14:18:23.600 SEV=8 IKEDBG/0 RPT=228
172.18.124.241
RECEIVED Message (msgid=c06b6315) with payloads :
HDR + HASH (8) + ATTR (14) + NONE (0) ... total length : 138

190 11/05/2001 14:18:23.600 SEV=9 IKEDBG/1 RPT=67
process_attr(): Enter!

191 11/05/2001 14:18:23.600 SEV=9 IKEDBG/1 RPT=68
Processing cfg Request attributes

192 11/05/2001 14:18:23.600 SEV=9 IKEDBG/1 RPT=69
Received IPV4 address request!

193 11/05/2001 14:18:23.600 SEV=9 IKEDBG/1 RPT=70
Received IPV4 net mask request!

194 11/05/2001 14:18:23.600 SEV=9 IKEDBG/1 RPT=71
Received DNS server address request!

195 11/05/2001 14:18:23.600 SEV=9 IKEDBG/1 RPT=72
Received WINS server address request!

196 11/05/2001 14:18:23.600 SEV=6 IKE/130 RPT=3
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
Received unsupported transaction mode attribute: 5

198 11/05/2001 14:18:23.600 SEV=6 IKE/130 RPT=4
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
Received unsupported transaction mode attribute: 7

200 11/05/2001 14:18:23.600 SEV=9 IKEDBG/1 RPT=73
Received Banner request!

201 11/05/2001 14:18:23.600 SEV=9 IKEDBG/1 RPT=74
Received Save PW request!

202 11/05/2001 14:18:23.600 SEV=9 IKEDBG/1 RPT=75
Received Default Domain request!

203 11/05/2001 14:18:23.600 SEV=9 IKEDBG/1 RPT=76
Received Split Tunnel Include request!

204 11/05/2001 14:18:23.600 SEV=9 IKEDBG/1 RPT=77
Received PFS request!

205 11/05/2001 14:18:23.600 SEV=9 IKEDBG/1 RPT=78
Received UDP Port request!

206 11/05/2001 14:18:23.600 SEV=9 IKEDBG/31 RPT=2
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
Obtained IP addr (192.168.10.10) prior to initiating
Mode Cfg (XAuth enabled)

208 11/05/2001 14:18:23.600 SEV=9 IKEDBG/0 RPT=229
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
constructing blank hash
```

```
209 11/05/2001 14:18:23.600 SEV=9 IKEDBG/0 RPT=230
172.18.124.241
0000: 00010004 C0A80A0A F0010000 F0070000 ................

210 11/05/2001 14:18:23.600 SEV=9 IKEDBG/0 RPT=231
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
constructing qm hash

211 11/05/2001 14:18:23.600 SEV=8 IKEDBG/0 RPT=232
172.18.124.241
SENDING Message (msgid=c06b6315) with payloads :
HDR + HASH (8) ... total length : 72

213 11/05/2001 14:18:23.640 SEV=9 IKEDBG/21 RPT=2
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
Delay Quick Mode processing, Cert/Trans Exch/RM
DSID in progress

215 11/05/2001 14:18:23.640 SEV=4 AUTH/21 RPT=33
User ipsecuser connected

216 11/05/2001 14:18:23.640 SEV=7 IKEDBG/22 RPT=2
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
Resume Quick Mode processing, Cert/Trans Exch/RM
DSID completed

218 11/05/2001 14:18:23.640 SEV=4 IKE/119 RPT=2
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
PHASE 1 COMPLETED

219 11/05/2001 14:18:23.640 SEV=6 IKE/121 RPT=2
172.18.124.241
Keep−alive type for this connection: DPD

220 11/05/2001 14:18:23.640 SEV=7 IKEDBG/0 RPT=233
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
Starting phase 1 rekey timer: 73440000 (ms)

221 11/05/2001 14:18:23.640 SEV=9 IKEDBG/0 RPT=234
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
sending notify message

222 11/05/2001 14:18:23.640 SEV=9 IKEDBG/0 RPT=235
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
constructing blank hash

223 11/05/2001 14:18:23.640 SEV=9 IKEDBG/0 RPT=236
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
constructing qm hash

224 11/05/2001 14:18:23.640 SEV=8 IKEDBG/0 RPT=237
172.18.124.241
SENDING Message (msgid=2899decd) with payloads :
HDR + HASH (8) ... total length : 88

226 11/05/2001 14:18:23.640 SEV=8 IKEDBG/0 RPT=238
172.18.124.241
RECEIVED Message (msgid=7551d208) with payloads :
```

```
HDR + HASH (8) + SA (1) + NONCE (10) + ID (5) +
ID (5) + NONE (0) ... total leng
th : 792

229 11/05/2001 14:18:23.640 SEV=9 IKEDBG/0 RPT=239
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
processing hash

230 11/05/2001 14:18:23.640 SEV=9 IKEDBG/0 RPT=240
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
processing SA payload

231 11/05/2001 14:18:23.640 SEV=9 IKEDBG/1 RPT=79
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
processing nonce payload

232 11/05/2001 14:18:23.640 SEV=9 IKEDBG/1 RPT=80
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
Processing ID

233 11/05/2001 14:18:23.640 SEV=5 IKE/25 RPT=3
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
Received remote Proxy Host data in ID Payload:
Address 192.168.10.10, Protocol 0, Port 0

236 11/05/2001 14:18:23.640 SEV=9 IKEDBG/1 RPT=81
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
Processing ID

237 11/05/2001 14:18:23.640 SEV=5 IKE/24 RPT=2
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
Received local Proxy Host data in ID Payload:
Address 172.18.124.132, Protocol 0, Port 0

240 11/05/2001 14:18:23.640 SEV=8 IKEDBG/0 RPT=241
QM IsRekeyed old sa not found by addr

241 11/05/2001 14:18:23.640 SEV=5 IKE/66 RPT=3
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
IKE Remote Peer configured for SA: ESP−3DES−MD5

243 11/05/2001 14:18:23.640 SEV=9 IKEDBG/0 RPT=242
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
processing IPSEC SA

244 11/05/2001 14:18:23.650 SEV=8 IKEDBG/0 RPT=243
Proposal # 2, Transform # 1, Type ESP, Id Triple−DES
Parsing received transform:
Phase 2 failure:
Mismatched attr types for class HMAC Algorithm:
Rcv'd: SHA
Cfg'd: MD5

248 11/05/2001 14:18:23.650 SEV=7 IKEDBG/27 RPT=3
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
IPSec SA Proposal # 3, Transform # 1 acceptable
```

```
250 11/05/2001 14:18:23.650 SEV=7 IKEDBG/0 RPT=244
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
IKE: requesting SPI!

251 11/05/2001 14:18:23.650 SEV=9 IPSECDBG/6 RPT=11
IPSEC key message parse - msgtype 6, len 192, vers 1,
pid 00000000, seq 3, err 0
, type 2, mode 0, state 32, label 0, pad 0, spi 00000000,
encrKeyLen 0, hashKeyL
en 0, ivlen 0, alg 0, hmacAlg 0, lifetype 0, lifetime1
7762996, lifetime2 0, dsI
d 300

255 11/05/2001 14:18:23.650 SEV=9 IPSECDBG/1 RPT=38
Processing KEY_GETSPI msg!

256 11/05/2001 14:18:23.650 SEV=7 IPSECDBG/13 RPT=3
Reserved SPI 1910411637

257 11/05/2001 14:18:23.650 SEV=8 IKEDBG/6 RPT=3
IKE got SPI from key engine: SPI = 0x71de9175

258 11/05/2001 14:18:23.650 SEV=9 IKEDBG/0 RPT=245
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
oakley constucting quick mode

259 11/05/2001 14:18:23.650 SEV=9 IKEDBG/0 RPT=246
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
constructing blank hash

260 11/05/2001 14:18:23.650 SEV=9 IKEDBG/0 RPT=247
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
constructing ISA_SA for ipsec

261 11/05/2001 14:18:23.650 SEV=5 IKE/75 RPT=3
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
Overriding Initiator's IPSec rekeying duration from
2147483 to 28800 seconds

263 11/05/2001 14:18:23.650 SEV=9 IKEDBG/1 RPT=82
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
constructing ipsec nonce payload

264 11/05/2001 14:18:23.650 SEV=9 IKEDBG/1 RPT=83
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
constructing proxy ID

265 11/05/2001 14:18:23.650 SEV=7 IKEDBG/0 RPT=248
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
Transmitting Proxy Id:
Remote host: 192.168.10.10 Protocol 0 Port 0
Local host: 172.18.124.132 Protocol 0 Port 0

269 11/05/2001 14:18:23.650 SEV=7 IKEDBG/0 RPT=249
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
Sending RESPONDER LIFETIME notification to Initiator
```

```
271 11/05/2001 14:18:23.650 SEV=9 IKEDBG/0 RPT=250
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
constructing qm hash

272 11/05/2001 14:18:23.650 SEV=8 IKEDBG/0 RPT=251 172.18.124.241
SENDING Message (msgid=7551d208) with payloads :
HDR + HASH (8) ... total length : 172

274 11/05/2001 14:18:23.650 SEV=8 IKEDBG/0 RPT=252 172.18.124.241
RECEIVED Message (msgid=6c034bb1) with payloads :
HDR + HASH (8) + SA (1) + NONCE (10) + ID (5) + ID (5) +
NONE (0) ... total leng
th : 796

277 11/05/2001 14:18:23.650 SEV=9 IKEDBG/0 RPT=253
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
processing hash

278 11/05/2001 14:18:23.650 SEV=9 IKEDBG/0 RPT=254
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
processing SA payload

279 11/05/2001 14:18:23.650 SEV=9 IKEDBG/1 RPT=84
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
processing nonce payload

280 11/05/2001 14:18:23.650 SEV=9 IKEDBG/1 RPT=85
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
Processing ID

281 11/05/2001 14:18:23.650 SEV=5 IKE/25 RPT=4
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
Received remote Proxy Host data in ID Payload:
Address 192.168.10.10, Protocol 0, Port 0

284 11/05/2001 14:18:23.650 SEV=9 IKEDBG/1 RPT=86
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
Processing ID

285 11/05/2001 14:18:23.650 SEV=5 IKE/34 RPT=2
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
Received local IP Proxy Subnet data in ID Payload:
Address 0.0.0.0, Mask 0.0.0.0, Protocol 0, Port 0

288 11/05/2001 14:18:23.650 SEV=8 IKEDBG/0 RPT=255
QM IsRekeyed old sa not found by addr

289 11/05/2001 14:18:23.650 SEV=5 IKE/66 RPT=4
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
IKE Remote Peer configured for SA: ESP−3DES−MD5


291 11/05/2001 14:18:23.650 SEV=9 IKEDBG/0 RPT=256 172.18.124.241
Group [ipsecgroup] User [ipsecuser]
processing IPSEC SA
```

```
292 11/05/2001 14:18:23.660 SEV=8 IKEDBG/0 RPT=257
Proposal # 2, Transform # 1, Type ESP, Id Triple-DES
Parsing received transform:
Phase 2 failure:
Mismatched attr types for class HMAC Algorithm:
Rcv'd: SHA
Cfg'd: MD5

296 11/05/2001 14:18:23.660 SEV=7 IKEDBG/27 RPT=4
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
IPSec SA Proposal # 3, Transform # 1 acceptable

298 11/05/2001 14:18:23.660 SEV=7 IKEDBG/0 RPT=258
172.18.124.241
Group [ipsecgroup] User [ipsecuser]
IKE: requesting SPI!

299 11/05/2001 14:18:23.660 SEV=9 IPSECDBG/6 RPT=12
IPSEC key message parse - msgtype 6, len 192, vers 1,
pid 00000000, seq 4, err 0, type 2, mode 0, state 32,
label 0, pad 0, spi 00000000, encrKeyLen 0, hashKeyLen 0,
ivlen 0, alg 0, hmacAlg 0, lifetype 0, lifetime1 7764576,
lifetime2 0, dsId 300

303 11/05/2001 14:18:23.660 SEV=9 IPSECDBG/1 RPT=39
Processing KEY_GETSPI msg!

304 11/05/2001 14:18:23.660 SEV=7 IPSECDBG/13 RPT=4
Reserved SPI 1940396912

305 11/05/2001 14:18:23.660 SEV=8 IKEDBG/6 RPT=4
IKE got SPI from key engine: SPI = 0x73a81b70

306 11/05/2001 14:18:23.660 SEV=9 IKEDBG/0 RPT=259 172.18.124.241
Group [ipsecgroup] User [ipsecuser]
oakley constucting quick mode

307 11/05/2001 14:18:23.660 SEV=9 IKEDBG/0 RPT=260 172.18.124.241
Group [ipsecgroup] User [ipsecuser]
constructing blank hash

308 11/05/2001 14:18:23.660 SEV=9 IKEDBG/0 RPT=261 172.18.124.241
Group [ipsecgroup] User [ipsecuser]
constructing ISA_SA for ipsec

309 11/05/2001 14:18:23.660 SEV=5 IKE/75 RPT=4 172.18.124.241
Group [ipsecgroup] User [ipsecuser]
Overriding Initiator's IPSec rekeying duration from
2147483 to 28800 seconds

311 11/05/2001 14:18:23.660 SEV=9 IKEDBG/1 RPT=87 172.18.124.241
Group [ipsecgroup] User [ipsecuser]
constructing ipsec nonce payload

312 11/05/2001 14:18:23.660 SEV=9 IKEDBG/1 RPT=88 172.18.124.241
Group [ipsecgroup] User [ipsecuser]
constructing proxy ID

313 11/05/2001 14:18:23.660 SEV=7 IKEDBG/0 RPT=262 172.18.124.241
Group [ipsecgroup] User [ipsecuser]
Transmitting Proxy Id:
Remote host: 192.168.10.10 Protocol 0 Port 0
Local subnet: 0.0.0.0 mask 0.0.0.0 Protocol 0 Port 0

317 11/05/2001 14:18:23.660 SEV=7 IKEDBG/0 RPT=263 172.18.124.241
```

```
Group [ipsecgroup] User [ipsecuser]
Sending RESPONDER LIFETIME notification to Initiator

319 11/05/2001 14:18:23.660 SEV=9 IKEDBG/0 RPT=264 172.18.124.241
Group [ipsecgroup] User [ipsecuser]
constructing qm hash

320 11/05/2001 14:18:23.660 SEV=8 IKEDBG/0 RPT=265 172.18.124.241
SENDING Message (msgid=6c034bb1) with payloads :
HDR + HASH (8) ... total length : 176

322 11/05/2001 14:18:23.660 SEV=8 IKEDBG/0 RPT=266 172.18.124.241
RECEIVED Message (msgid=7551d208) with payloads :
HDR + HASH (8) + NONE (0) ... total length : 48

324 11/05/2001 14:18:23.660 SEV=9 IKEDBG/0 RPT=267 172.18.124.241
Group [ipsecgroup] User [ipsecuser]
processing hash

325 11/05/2001 14:18:23.660 SEV=9 IKEDBG/0 RPT=268 172.18.124.241
Group [ipsecgroup] User [ipsecuser]
loading all IPSEC SAs

326 11/05/2001 14:18:23.660 SEV=9 IKEDBG/1 RPT=89 172.18.124.241
Group [ipsecgroup] User [ipsecuser]
Generating Quick Mode Key!

327 11/05/2001 14:18:23.660 SEV=9 IKEDBG/1 RPT=90 172.18.124.241
Group [ipsecgroup] User [ipsecuser]
Generating Quick Mode Key!

328 11/05/2001 14:18:23.670 SEV=7 IKEDBG/0 RPT=269 172.18.124.241
Group [ipsecgroup] User [ipsecuser]
Loading host:
Dst: 172.18.124.132
Src: 192.168.10.10

330 11/05/2001 14:18:23.670 SEV=4 IKE/49 RPT=3 172.18.124.241
Group [ipsecgroup] User [ipsecuser]
Security negotiation complete for User (ipsecuser)
Responder, Inbound SPI = 0x71de9175, Outbound SPI = 0x2081f1c4

333 11/05/2001 14:18:23.670 SEV=9 IPSECDBG/6 RPT=13
IPSEC key message parse − msgtype 1, len 608, vers 1,
pid 00000000, seq 0, err 0, type 2, mode 1, state 64,
label 0, pad 0, spi 2081f1c4, encrKeyLen 24, hashKeyLen 16,
ivlen 8, alg 2, hmacAlg 3, lifetype 0, lifetime1 7764576,
lifetime2 0, dsId 0

337 11/05/2001 14:18:23.670 SEV=9 IPSECDBG/1 RPT=40
Processing KEY_ADD msg!

338 11/05/2001 14:18:23.670 SEV=9 IPSECDBG/1 RPT=41
key_msghdr2secassoc(): Enter

339 11/05/2001 14:18:23.670 SEV=7 IPSECDBG/1 RPT=42
No USER filter configured

340 11/05/2001 14:18:23.670 SEV=9 IPSECDBG/1 RPT=43
KeyProcessAdd: Enter

341 11/05/2001 14:18:23.670 SEV=8 IPSECDBG/1 RPT=44
KeyProcessAdd: Adding outbound SA

342 11/05/2001 14:18:23.670 SEV=8 IPSECDBG/1 RPT=45
KeyProcessAdd: src 172.18.124.132 mask 0.0.0.0, dst
```

```
192.168.10.10 mask 0.0.0.0

343 11/05/2001 14:18:23.670 SEV=8 IPSECDBG/1 RPT=46
KeyProcessAdd: FilterIpsecAddIkeSa success

344 11/05/2001 14:18:23.670 SEV=9 IPSECDBG/6 RPT=14
IPSEC key message parse − msgtype 3, len 328, vers 1,
pid 00000000, seq 0, err 0, type 2, mode 1, state 32,
label 0, pad 0, spi 71de9175, encrKeyLen 24, hashKeyLen 16,
ivlen 8, alg 2, hmacAlg 3, lifetype 0, lifetime1 7762996,
lifetime2 0, dsId 0

348 11/05/2001 14:18:23.670 SEV=9 IPSECDBG/1 RPT=47
Processing KEY_UPDATE msg!

349 11/05/2001 14:18:23.670 SEV=9 IPSECDBG/1 RPT=48
Update inbound SA addresses

350 11/05/2001 14:18:23.670 SEV=9 IPSECDBG/1 RPT=49
key_msghdr2secassoc(): Enter

351 11/05/2001 14:18:23.670 SEV=7 IPSECDBG/1 RPT=50
No USER filter configured

352 11/05/2001 14:18:23.670 SEV=9 IPSECDBG/1 RPT=51
KeyProcessUpdate: Enter

353 11/05/2001 14:18:23.670 SEV=8 IPSECDBG/1 RPT=52
KeyProcessUpdate: success

354 11/05/2001 14:18:23.670 SEV=8 IKEDBG/7 RPT=3
IKE got a KEY_ADD msg for SA: SPI = 0x2081f1c4

355 11/05/2001 14:18:23.670 SEV=8 IKEDBG/0 RPT=270
pitcher: rcv KEY_UPDATE, spi 0x71de9175

356 11/05/2001 14:18:23.670 SEV=4 IKE/120 RPT=3 172.18.124.241
Group [ipsecgroup] User [ipsecuser]
PHASE 2 COMPLETED (msgid=7551d208)

357 11/05/2001 14:18:23.690 SEV=8 IKEDBG/0 RPT=271 172.18.124.241
RECEIVED Message (msgid=6c034bb1) with payloads :
HDR + HASH (8) + NONE (0) ... total length : 48

359 11/05/2001 14:18:23.690 SEV=9 IKEDBG/0 RPT=272 172.18.124.241
Group [ipsecgroup] User [ipsecuser]
processing hash

360 11/05/2001 14:18:23.690 SEV=9 IKEDBG/0 RPT=273 172.18.124.241
Group [ipsecgroup] User [ipsecuser]
loading all IPSEC SAs

361 11/05/2001 14:18:23.690 SEV=9 IKEDBG/1 RPT=91 172.18.124.241
Group [ipsecgroup] User [ipsecuser]
Generating Quick Mode Key!

362 11/05/2001 14:18:23.690 SEV=9 IKEDBG/1 RPT=92 172.18.124.241
Group [ipsecgroup] User [ipsecuser]
Generating Quick Mode Key!

363 11/05/2001 14:18:23.690 SEV=7 IKEDBG/0 RPT=274 172.18.124.241
Group [ipsecgroup] User [ipsecuser]
Loading subnet:
Dst: 0.0.0.0 mask: 0.0.0.0
Src: 192.168.10.10
```

```
365 11/05/2001 14:18:23.690 SEV=4 IKE/49 RPT=4 172.18.124.241
Group [ipsecgroup] User [ipsecuser]
Security negotiation complete for User (ipsecuser)
Responder, Inbound SPI = 0x73a81b70, Outbound SPI = 0xaf8534c2

368 11/05/2001 14:18:23.690 SEV=9 IPSECDBG/6 RPT=15
IPSEC key message parse − msgtype 1, len 608, vers 1,
pid 00000000, seq 0, err 0, type 2, mode 1, state 64,
label 0, pad 0, spi af8534c2, encrKeyLen 24, hashKeyLen 16,
ivlen 8, alg 2, hmacAlg 3, lifetype 0, lifetime1 7764576,
lifetime2 0, dsId 0

372 11/05/2001 14:18:23.690 SEV=9 IPSECDBG/1 RPT=53
Processing KEY_ADD msg!

373 11/05/2001 14:18:23.690 SEV=9 IPSECDBG/1 RPT=54
key_msghdr2secassoc(): Enter

374 11/05/2001 14:18:23.690 SEV=7 IPSECDBG/1 RPT=55
No USER filter configured

375 11/05/2001 14:18:23.690 SEV=9 IPSECDBG/1 RPT=56
KeyProcessAdd: Enter

376 11/05/2001 14:18:23.690 SEV=8 IPSECDBG/1 RPT=57
KeyProcessAdd: Adding outbound SA

377 11/05/2001 14:18:23.690 SEV=8 IPSECDBG/1 RPT=58
KeyProcessAdd: src 0.0.0.0 mask 255.255.255.255, dst
192.168.10.10 mask 0.0.0.0

378 11/05/2001 14:18:23.690 SEV=8 IPSECDBG/1 RPT=59
KeyProcessAdd: FilterIpsecAddIkeSa success

379 11/05/2001 14:18:23.690 SEV=9 IPSECDBG/6 RPT=16
IPSEC key message parse − msgtype 3, len 328, vers 1,
pid 00000000, seq 0, err 0, type 2, mode 1, state 32,
label 0, pad 0, spi 73a81b70, encrKeyLen 24, hashKeyLen 16,
ivlen 8, alg 2, hmacAlg 3, lifetype 0, lifetime1 7762996,
lifetime2 0, dsId 0

383 11/05/2001 14:18:23.690 SEV=9 IPSECDBG/1 RPT=60
Processing KEY_UPDATE msg!

384 11/05/2001 14:18:23.690 SEV=9 IPSECDBG/1 RPT=61
Update inbound SA addresses

385 11/05/2001 14:18:23.690 SEV=9 IPSECDBG/1 RPT=62
key_msghdr2secassoc(): Enter

386 11/05/2001 14:18:23.690 SEV=7 IPSECDBG/1 RPT=63
No USER filter configured

387 11/05/2001 14:18:23.690 SEV=9 IPSECDBG/1 RPT=64
KeyProcessUpdate: Enter

388 11/05/2001 14:18:23.690 SEV=8 IPSECDBG/1 RPT=65
KeyProcessUpdate: success

389 11/05/2001 14:18:23.690 SEV=8 IKEDBG/7 RPT=4
IKE got a KEY_ADD msg for SA: SPI = 0xaf8534c2

390 11/05/2001 14:18:23.690 SEV=8 IKEDBG/0 RPT=275
pitcher: rcv KEY_UPDATE, spi 0x73a81b70

391 11/05/2001 14:18:23.690 SEV=4 IKE/120 RPT=4 172.18.124.241
```

```
Group [ipsecgroup] User [ipsecuser]
PHASE 2 COMPLETED (msgid=6c034bb1
```

What Can Go Wrong

- Unable to Negotiate IPSec or Host Does Not Respond
- User Cannot Connect
- No VPN 3000 Concentrator Debugs and Users Cannot Connect

Unable to Negotiate IPSec or Host Does Not Respond

The VPN 3000 concentrator debug shows the following:

```
14 02/20/2001 08:59:29.100 SEV=4 IKE/22 RPT=5 64.102.55.139
No Group found matching badgroup for Pre−shared key peer 64.102.55.139
```

The usual cause of this problem is that the user is trying to connect with a group name that is not configured.

User Cannot Connect

There are several possible problems if you cannot connect.

- **Missing Filter**

  The VPN 3000 concentrator debug shows the following:

  ```
  Filter missing on interface 2, IKE data from Peer x.x.x.x dropped
  ```

  The usual cause of this problem is that the filter is missing from the public interface. It should usually be the public filter (but can be the private filter; "none" is not valid). Go to **Configuration** > **Interfaces** > **Ethernet 2** > **Filter** and make the filter "public" or another value (that is not "none").
- **IPSec Not Selected**

  The error message is the following:

  ```
  Unable to negotiate IPSec or host did not respond.
  ```

  The VPN 3000 concentrator debug shows the following:

  ```
  Terminating connection attempt: IPSEC not permitted for group <group>
  ```

  The usual cause of this problem is that IPSec is not selected on the group. Go to **Configuration** > **User Management** > **Groups** >**<group>>Modify**> **General tab** and verify that IPSec is selected under Tunneling Protocols.
- **User Not in Database**

  The error message is the following:

  ```
  User Authentication Failed
  ```

  The VPN 3000 concentrator debug shows the following:

  ```
  Authentication rejected: Reason = User was not found handle = 14,
  ```

```
server = Internal, user = <user>
```

The usual cause of this problem is that the user does not exist in the user database. Make sure that you are entering the correct user name when the user authentication screen is displayed.

- **Missing Default Route**

  The VPN 3000 concentrator debug shows the following:

  ```
  Filter missing on interface 0, IKE data from Peer x.x.x.x dropped
  ```

  The usual cause of this problem is that the default route is missing. Make sure there is a default route in the configuration. Go to **Configuration** > **System** > **IP routing** > **Default Gateway** to specify the default gateway.
- **No IP Address Option**

  The error message is the following:

  ```
  Your IPSec connection has been terminated by the remote peer.
  ```

  The VPN 3000 concentrator debug shows the following:

  ```
  User [ >user< ]
  IKE rcv'd FAILED IP Addr status!
  ```

  The usual cause of this problem is that there is no option checked to give the client an IP address. Go to **Configuration** > **System** > **Address Management** > **Address Assignment** to select an option.
- **Different Passwords**

  The error message is the following:

  ```
  User authentication failed
  ```

  The VPN 3000 concentrator debug shows the following:

  ```
  The calculated HASH doesn't match the received value
  ```

  The usual cause of this problem is that the group password on the client is different than the password configured on the concentrator. Check the passwords on both the client and the concentrator.

No VPN 3000 Concentrator Debugs and Users Cannot Connect

The default concentrator public filter contains rules to allow the following traffic:

```
Protocol = UDP, port = 500
Protocol = UDP, port = 10000
Protocol = ESP
Protocol = AH
```

If the VPN 3000 concentrator's filters allow this traffic, then a device between the client and the concentrator could be blocking some of these ports (perhaps a firewall). To verify, try connecting to the concentrator from the network immediately outside the concentrator. If that works, then a device between the client PC and concentrator is blocking the traffic.

Related Information

- **Cisco VPN 3000 Concentrator Support Page**
- **Cisco VPN Client Support Page**
- **IPSec Support Page**
- **VPN Client Software Download**
- **Technical Support & Documentation − Cisco Systems**

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