

# لي م ع و Cisco IOS ه ج و م ن ي ب IPsec ن ي و ك ت م د خ ت س ي ي ذ ل ا Windows ل Cisco VPN 4.x RADIUS

## ت ا ي و ت ح م ل ا

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[ق م د ق م ل ا](#)

[ق ي س ا س أ ل ا ت ا ب ل ط ت م ل ا](#)

[ت ا ب ل ط ت م ل ا](#)

[ق م د خ ت س م ل ا ت ا ن و ك م ل ا](#)

[ق ي س ا س أ ل ا ق ي ر ط ن ل ا](#)

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[ق ك ب ش ل ل ي ط ي ط خ ت ل ا م س ر ل ا](#)

[ت ا ن ي و ك ت ل ا](#)

[RADIUS م د ا خ ن ي و ك ت](#)

[\(ه ج و م ل ا\) AAA ع ا ل م ع ل RADIUS م د ا خ ن ي و ك ت](#)

[ا ه ص ي خ ر ت و ق م ج م ل ا ق د ا ص م ل RADIUS م د ا خ ن ي و ك ت](#)

[م د خ ت س م ل ا ق د ا ص م ل RADIUS م د ا خ ن ي و ك ت](#)

[VPN Client 4.8 ن ي و ك ت](#)

[ق ح ص ل ا ن م ق ق ح ت ل ا](#)

[ا ه ج ا ل ص ا و ع ا ط خ أ ل ا ف ا ش ك ت س ا](#)

[ا ه ج ا ل ص ا و ع ا ط خ أ ل ا ف ا ش ك ت س ا م ا و أ](#)

[ع ا ط خ أ ل ا ج ي ح ص ت ج ا خ ا](#)

[ه ج و م ل ا ت ا ل ج س](#)


[ل ي م ع ل ا ت ا ل ج س](#)

[ق ل ص ت ا ذ ت ا م و ل ع م](#)

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## ق م د ق م ل ا

Cisco VPN 4.x ل ي م ع و Cisco IOS ه ج و م ن ي ب ل ا ص ت ا ن ي و ك ت ق ي ف ي ك د ن ت س م ل ا ا ذ ه ح ض و ي ر ا د ص ا ل ا Cisco IOS® ج م ا ن ر ب . م د خ ت س م ل ا ق د ا ص م و ق م ج م ل ا ض ي و ف ت ل RADIUS م ا د خ ت س ا ب 4.x و 3.x VPN ع ا ل م ع م د خ ت س ي . Cisco VPN Client 3.x ن م ث د ح أ ل ا م ع د ل ا ت ا ل ا ص ت ا و 12.2(8)T VPN ع ا ل م ع ل isakmp policy # group 2 ر م أ ل ا ح ي ت ي . 2 م ق ر (DH) Diffie Hellman ق م ج م ق س ا ي س ل ا ص ت ا ل ا ق ي ن ا ك م ا .

 د ي ز م ي ل ع ل و ص ح ل ل [IPsec VPN ق ب س ا ح م](#) ع ج ا ر . IPsec VPN ق ب س ا ح م ن أ ل ا ر ف و ت ت : ق ط ح ا ل م . ت ا ن ي و ك ت ل ا ق ن ي ع و ت ا م و ل ع م ل ا ن م .

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## ق ي س ا س أ ل ا ت ا ب ل ط ت م ل ا

## تابل طتم ل

نيوكتل اذه عارج لواح نأ لبق ةي لاتل تابل طتم ل عافيتسا نم دكأت

- IPsec ل اهنيني عت متيس يتل نيوانع ل نم ةوعومجم
- "Cisco123" نم اق بس م كرتشم حاتفم مادختساب "ل يمع 3000" يمست ةوعومجم
- RADIUS م داخ يل ع مدختس م ل ةقداص م و ةوعومجم ل ضيوفت

 ي ل حال تقولا في RADIUS ةب س ا ح م د م ت ع ا م ت ي ال : ةظ ح ال م

## ةمدختس م ل تانوك م ل

ةي لاتل ةي د م ل تانوك م ل و ا ح م ا ر ب ل ت ا ر ا د ص ا ل ل د ن ت س م ل ا ذ ه ي ف ة د ر ا و ل ت ا م و ل ع م ل د ن ت س ت

- Cisco IOS، ج م ا ن ر ب ل غ ش ي ي ذ ل ا 2611 ه ج و م
- Windows ل ي غ ش ت ل م ا ظ ن ل Cisco نم نم آ ل ي ف ا ض ا ل ا ي و ت ح م ل ر د ص م (ي ل م ع ي ن ا ب ح ي) (RADIUS م داخ)
- Windows ر ا د ص ا ل ا ي غ ش ت ل م ا ظ ن ل Cisco نم م VPN ة ك ب ش ل ي م ع (ي ل م ع ي ن ا ب ح ي) (4.x ر ا د ص ا ل ا VPN ة ك ب ش ل ل ي م ع)

ة ص ا خ ة ي ل م ع م ة ئ ي ب ي ف ة د و ج و م ل ا ز ه ج ا ل ا نم د ن ت س م ل ا ذ ه ي ف ة د ر ا و ل ت ا م و ل ع م ل ا ع ا ش ن ا م ت ت ن ا ك ا ذ ا (ي ض ا ر ت ف ا) ح و س م م ن ي و ك ت ب د ن ت س م ل ا ذ ه ي ف ة م د خ ت س م ل ا ز ه ج ا ل ا ع ي م ج ت ا د ب ر م ا ي ا ل ل م ت ح م ل ا ر ي ث ا ت ل ل ك م ه ف نم د ك ا ت ف ، ة ر ش ا ب م ك ت ك ب ش

د ي د خ ت ج ا ح س م ل ا ي ل ع ر م ا ة غ ي ص ص ر ع ل ل نم ج ا ت ن ا ذ ه

```
<#root>
```

```
vpn2611#
```

```
show version
```

```
Cisco Internetwork Operating System Software
IOS (tm) C2600 Software (C2600-JK903S-M), Version 12.2(8)T,
RELEASE SOFTWARE (fc2)
```

```
TAC Support: http://www.cisco.com/tac
Copyright (c) 1986-2002 by cisco Systems, Inc.
Compiled Thu 14-Feb-02 16:50 by ccai
Image text-base: 0x80008070, data-base: 0x81816184
```

```
ROM: System Bootstrap, Version 11.3(2)XA4, RELEASE SOFTWARE (fc1)
```

```
vpn2611 uptime is 1 hour, 15 minutes
System returned to ROM by reload
System image file is "flash:c2600-jk9o3s-mz.122-8.T"
```

```
cisco 2611 (MPC860) processor (revision 0x203)
with 61440K/4096K bytes of memory.
Processor board ID JAD04370EEG (2285146560)
M860 processor: part number 0, mask 49
Bridging software.
X.25 software, Version 3.0.0.
SuperLAT software (copyright 1990 by Meridian Technology Corp).
```

TN3270 Emulation software.  
2 Ethernet/IEEE 802.3 interface(s)  
1 Serial network interface(s)  
32K bytes of non-volatile configuration memory.  
16384K bytes of processor board System flash (Read/Write)

Configuration register is 0x2102

## ةيساس الة رظنلا

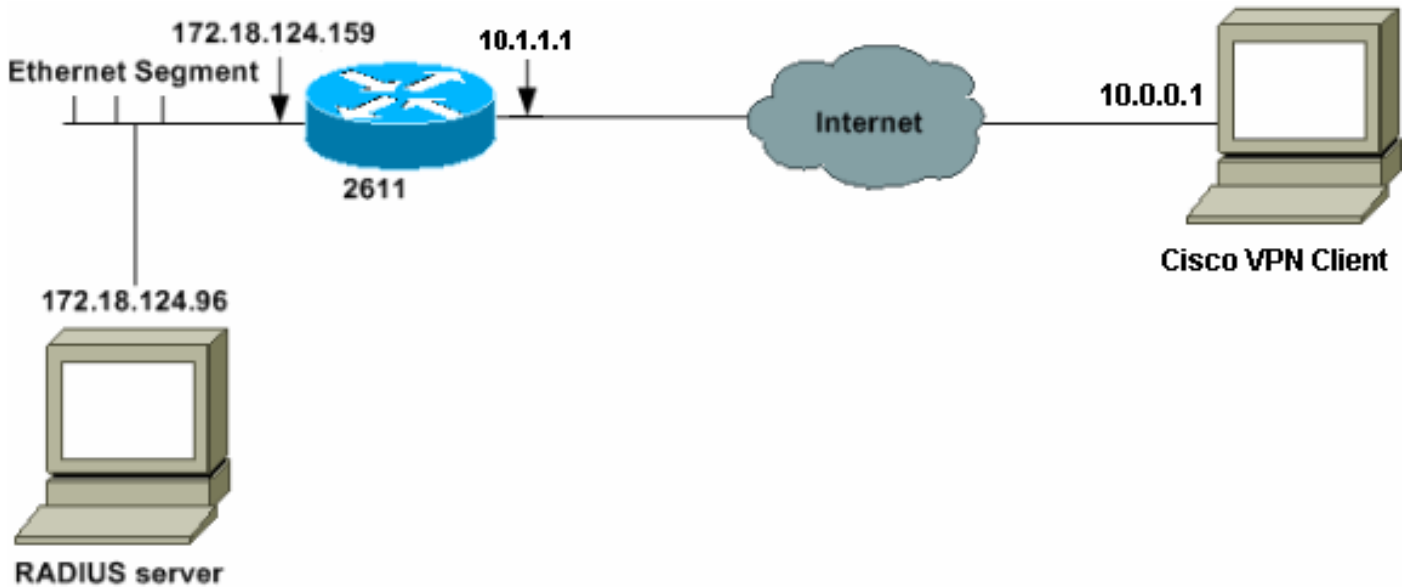
Windows في تنرتنلة ةيمست ةمدخ نييعت لثم ،ضيوفتلاو ةقداصملا دننسملا اذه حضوي ذيفننن بامتهم تنك اذا . RADIUS مءاخ ةطساوب ، (DNS) لاجملا ةيمست ةمدخو (WINS) [IPSec نيوكت](#) لىل اعجراف ،هجوملا ةطساوب ايلحم ليوختلاو RADIUS مءاخ ةطساوب ةقداصملا [RADIUS مءختسي](#) .يذلا Windows ل 4.x راءصلا Cisco VPN لي معو Cisco IOS [هجوم نيوب مءختسملا ةقداصملا](#) .

## نيوكتلا

دننسملا اذه في ةحضوملا تازيملا نيوكت تامولعم كل مءقء ،مسقلا اذه في .

## ةكبش لىل يطيختلا مسرلا

يلا للاةكبشلا دادعلا دننسملا اذه مءختسي



اهنال ةيملاءلا تنرتنللا في هيجوتلل ةلباق تسيل لاثملا اذه في IP نيوانع :ةظحالم ةيلمعم ةكبش في ةصاخ IP نيوانع .

## تان نيوكتلا

2611 هج و م ل ا

<#root>

vpn2611#

show run

Building configuration...

Current configuration : 1884 bytes

!

version 12.2

service timestamps debug uptime

service timestamps log uptime

no service password-encryption

!

hostname vpn2611

!

*!--- Enable AAA for user authentication and group authorization.*

aaa new-model

!

*!--- In order to enable extended authentication (Xauth) for user authentication,*

*!--- enable the*

aaa authentication

commands.

!--- "Group radius" specifies RADIUS user authentication.

aaa authentication login userauthen group radius

*!--- In order to enable group authorization,*

*!--- enable the*

aaa authorization

commands.

aaa authorization network groupauthor group radius

!

!

ip subnet-zero

!

!

!

ip audit notify log

ip audit po max-events 100

!

*!--- Create an Internet Security Association and*

*!--- Key Management Protocol (ISAKMP) policy for Phase 1 negotiations.*

```
crypto isakmp policy 3
encr 3des
authentication pre-share
group 2
```

!  
!

*!--- Create the Phase 2 policy for actual data encryption.*

```
crypto ipsec transform-set myset esp-3des esp-sha-hmac
```

!

*!--- Create a dynamic map and  
!--- apply the transform set that was created.*

```
crypto dynamic-map dynmap 10
set transform-set myset
```

!

*!--- Create the actual crypto map,  
!--- and apply the AAA lists that were created earlier.*

```
crypto map clientmap client authentication list userauthen
crypto map clientmap isakmp authorization list groupauthor
crypto map clientmap client configuration address respond
crypto map clientmap 10 ipsec-isakmp dynamic dynmap
```

!  
!  
!  
!  
!  
!

```
fax interface-type fax-mail
mta receive maximum-recipients 0
```

*!--- Apply the crypto map on the outside interface.*

```
interface Ethernet0/0
ip address 10.1.1.1 255.255.255.0

half-duplex

crypto map clientmap
```

!

```
interface Serial0/0
no ip address
shutdown
```

!

```
interface Ethernet0/1
ip address 172.18.124.159 255.255.255.0
no keepalive
half-duplex
```

!

*!--- Create a pool of addresses to be assigned to the VPN Clients.*

```
ip local pool ippool 10.16.20.1 10.16.20.200
```

```
ip classless  
ip route 0.0.0.0 0.0.0.0 10.1.1.2  
ip http server  
ip pim bidir-enable  
!
```

*!--- Create an access control list (ACL) if you want to do split tunneling.  
!--- This ACL is referenced in the RADIUS profile.*

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

```
!
```

*!--- Specify the IP address of the RADIUS server,  
!--- along with the RADIUS shared secret key.*

```
radius-server host 172.18.124.96 auth-port 1645 acct-port 1646 key cisco123
```

```
radius-server retransmit 3  
call rsvp-sync
```

```
!
```

```
!
```

```
mgcp profile default
```

```
!
```

```
dial-peer cor custom
```

```
!
```

```
!
```

```
!
```

```
!
```

```
line con 0  
  exec-timeout 0 0
```

```
line aux 0
```

```
line vty 0 4
```

```
!
```

```
!
```

```
end
```

```
vpn2611#
```

## RADIUS مداخل نيوكوت

هجوم ال) AAA عالم عمل RADIUS مداخل نيوكوت

ة: لال لال تاوطلال لمكأ

1. RADIUS مداخل تانايب ةدعاق لال هجوم ال ةفاضل لال ةفاضل قوف رونا.

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

2. كرتشم الارسال حاات فم ال عم "172.18.124.159" هجوم لاب صاخ ال IP ناونع دح .  
 مادختساب Authenticate لدسنم ال عبرم ال ف رADIUS رتخاو.

اهصخرت وةومجم ال قداصلم رADIUS مداخ نيوك

ةيلات ال تاوطخال لمكأ

1. RADIUS مداخ ال ليمع 3000 مساب مدختسم ةفاضال ريرحت/ةفاضال قوف رونا .

2. Cisco IOS جم انرب نم 16.9.1 رادصال او Cisco IOS Software جم انرب نم 15.8.3 رادصال لبق .  
 ال ريرشت يتل او ، Cisco IOS ل صاخ ةيساسأ ةملك هذه رورم ال ةملك تناك ، Cisco IOS XE Software

Cisco ةومجم لىل مدختسملل نىيىت كنكمى .اهل ةراشلل بىى ةومجم فىرت فلم  
IP ناونع نىيىت رايىل مدع نم دكأت .كلذل صفت تنك اذنة مألل

16.9.1 رادصلل Cisco IOS XE جم انربو Cisco IOS Software جم انرب نم 15.8.3 رادصلل دعب  
رورملا ةملك فىرتب صوى .اهل نوكىو رورم ةملك لىل AAA ضىوفت جاتى  
رمألل ربع ةمدختسملل <secret>isakmp authorization list aaa\_list1 password.

RADIUS مداخ لىل ةقباطملا <secret> رورملا ةملك نىوكتب لوؤسملل موقى م





## User Setup

- User Setup
- Group Setup
- Shared Profile Components
- Network Configuration
- System Configuration
- Interface Configuration
- Administration Control
- External User Databases
- Reports and Activity
- Online Documentation

### User Setup

Password Authentication:

CiscoSecure Database

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

Password

XXXXXXXXXXXXXXXXXXXX

Confirm Password

XXXXXXXXXXXXXXXXXXXX

Separate (CHAP/MS-CHAP/ARAP)

Password

XXXXXXXXXXXXXXXXXXXX

Confirm Password

XXXXXXXXXXXXXXXXXXXX

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

Group to which the user is assigned:

Group 20

Callback

- Use group setting
- No callback allowed
- Callback using this number
- Dialup client specifies callback number
- Use Microsoft NT callback settings

Client IP Address Assignment

- Use group settings
- No IP address assignment
- Assigned by dialup client
- Assign static IP address
- Assigned by AAA client pool

Submit

Delete

Cancel

3. اذہ مدخت سہم الباسح ةطساوب اهريرم متيس يتلا ةومجم الب ليوخت تاملعم ددح ةرم ليلع ال اىرأ VPN.

تامس الب هذه عم Cisco-AV جوز ني كمت نم دكأت:

- ipsec:key-exchange=ike



**Checking this option will PERMIT all UNKNOWN Services**

Default (Undefined) Services

---

**Cisco IOS/PIX RADIUS Attributes** ?

[009\001] cisco-av-pair

```

ipsec:key-exchange=ike
ipsec:key-exchange=preshared-key
ipsec:addr-pool=ippool
ipsec:inac1=10

```

---

**IETF RADIUS Attributes** ?

[006] Service-Type Outbound

[007] Framed-Protocol PPP

[027] Session-Timeout 0

[028] Idle-Timeout 0

[064] Tunnel-Type

Tag 1 Value IP ESP

Tag 2 Value

[069] Tunnel-Password

Tag 1 Value cisco123

Tag 2 Value


ةرياريتخالال تامسلا هذه نيكم تاضيأ كنكمي ، دروملل ةددم تامس تحت

- ipsec:default-domain=
- ipsec:domain=
- ipsec:idletime=
- ipsec:dns=
- ipsec:wins-servers=

مدخست سمل اة قداصل مل RADIUS مداخ نيوك ت

ةي لال تاوطخل ل مل أ:

1. تايطعم ةدعاق نم أي cisco ل ا ي ف لمعت سمل VPN ل ا فيضي نأ ررحي/فيضي ةق طوق .  
ل ا، ل username cisco، ل ا ثم اذه في



User: cisco  
Find Add/Edit

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

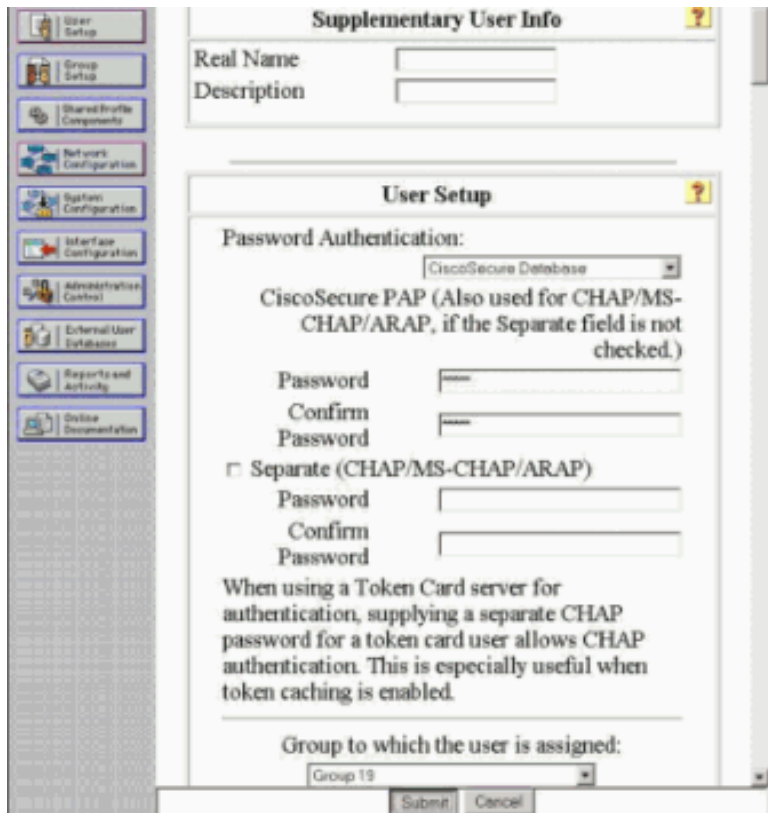
List all users  
Back to Help

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

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

2. cisco اضي أة مل ك . cisco مدخست سمل لة مل ك لال تنيع ، ي لال راط لال ا ل ع .

ل اس را قوف رقنا ، اءات نال ا درجم ب . ةعومجم ل ا مدخست سمل ا باسح ني عت ك نكم ي



Supplementary User Info

Real Name  
Description

User Setup

Password Authentication:  
CiscoSecure Database

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

Password  
Confirm Password

Separate (CHAP/MS-CHAP/ARAP)  
Password  
Confirm Password

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

Group to which the user is assigned:  
Group 19

Submit Cancel

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

Account Disabled Status

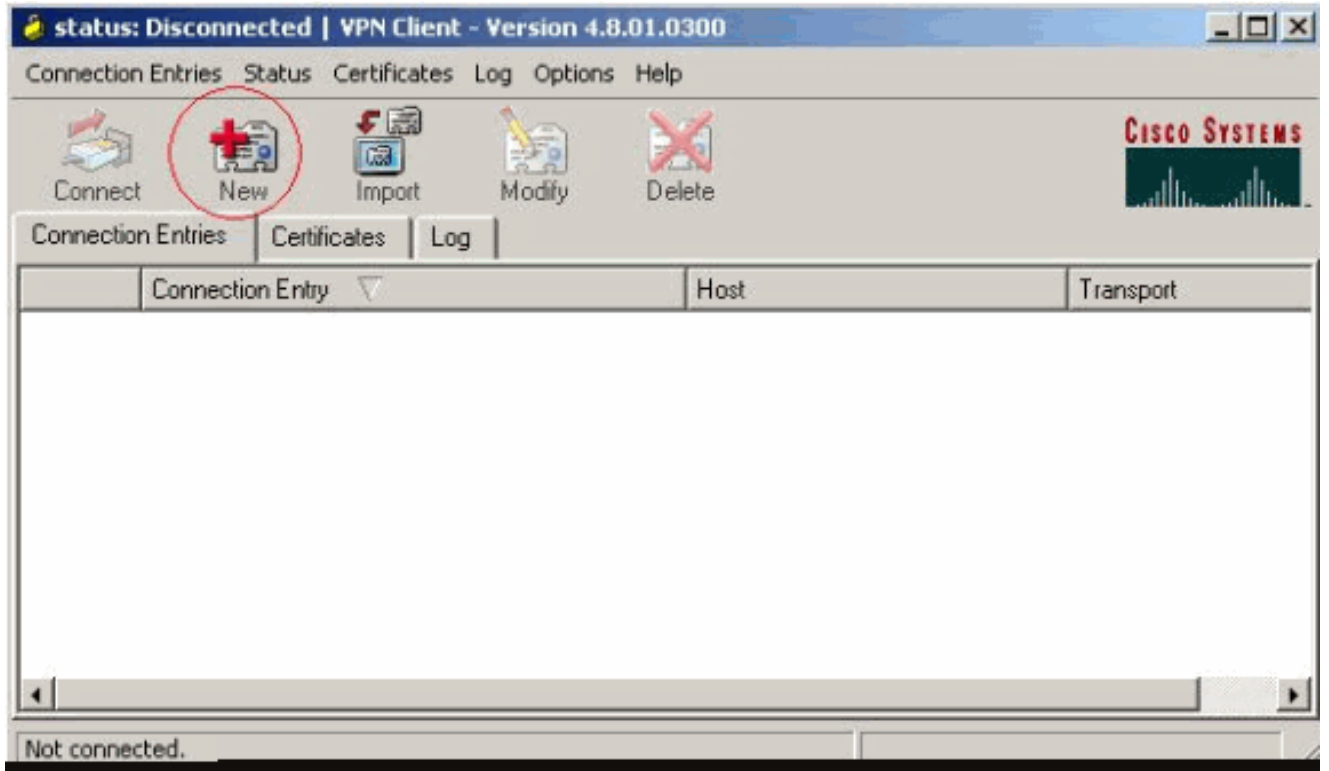
Select the Account Disabled check box to disable this account; clear the check box to enable the account.

[Back to Top]

VPN Client 4.8 نيوك ت

4.8: نوبز VPN ل ا تل ك ش steps in order to اذه تم أ

1. نوبز VPN > نوبز Cisco Systems VPN > جم انرب > ادي ادب ترتخأ.
2. "ديج VPN لاصتا عاشنا" راطإلا ليغشتل ديج ىلع رقنا.



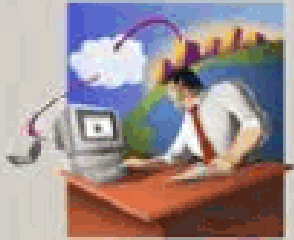
3. فيضم ال ع برم ال ايف هجوم لل ايجراخ ال IP ناونع لخدأ. فصوصم "لاصتالا لخدأ" مسا لخدأ. ظفح ىلع رقنا وورم الة ملكو و VPN ةومجم مسا لخدأ، كلذ دعب.

**VPN Client | Properties for "vpn"**

Connection Entry:

Description:

Host:



Authentication | Transport | Backup Servers | Dial-Up

Group Authentication  Mutual Group Authentication

Name:

Password:

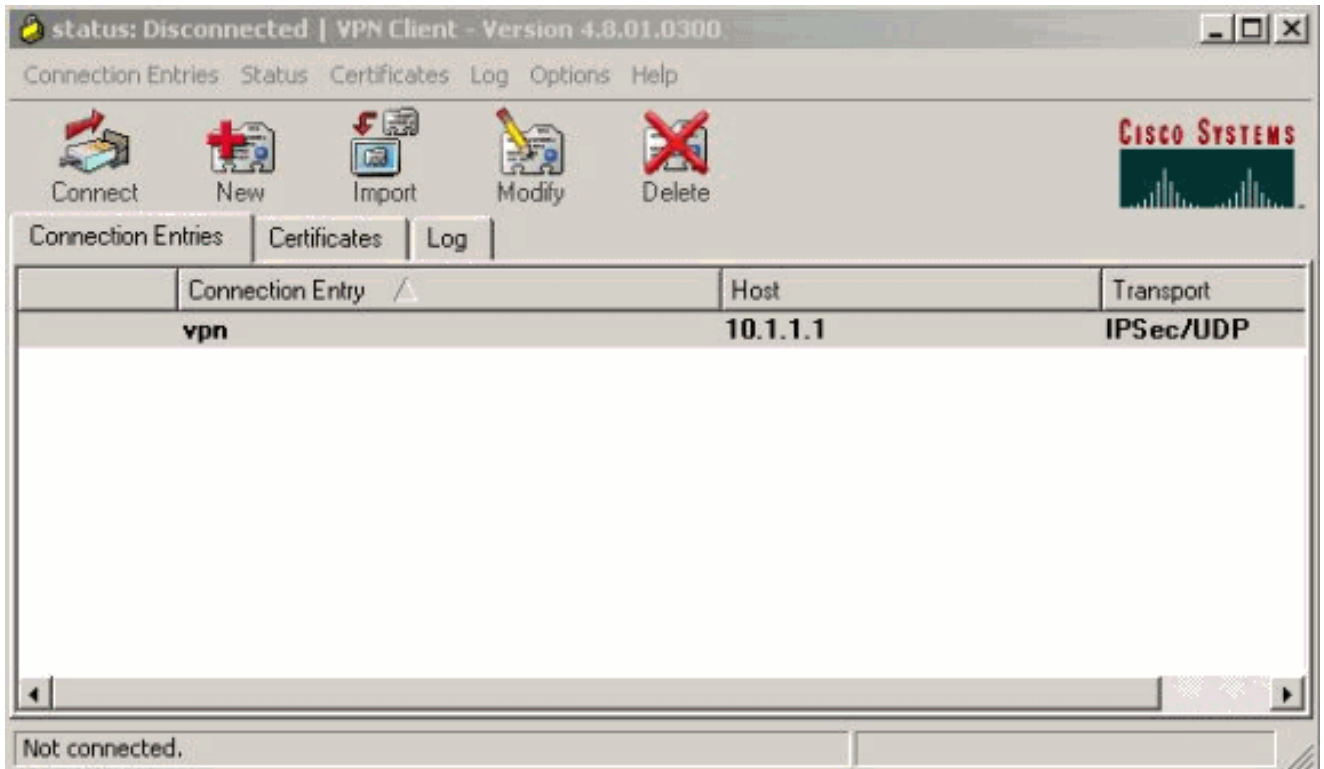
Confirm Password:

Certificate Authentication

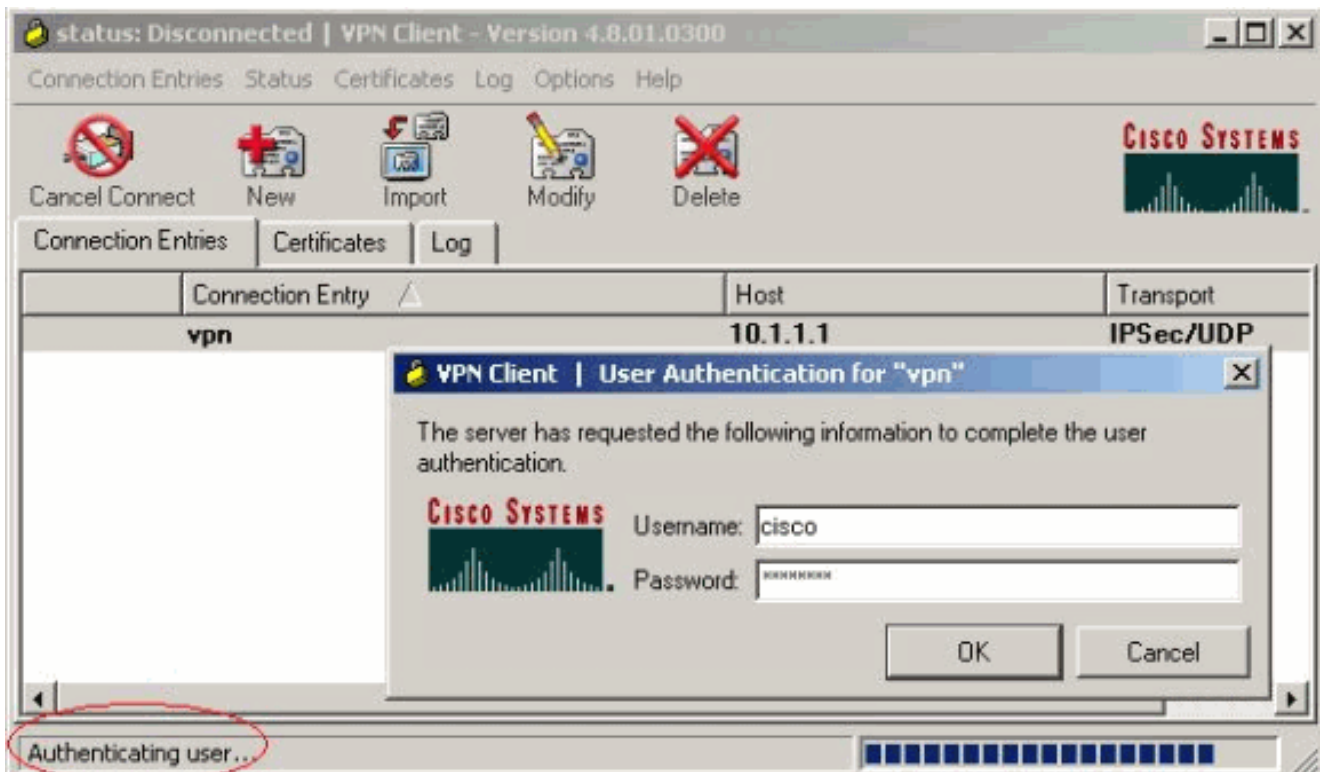
Name:

Send CA Certificate Chain

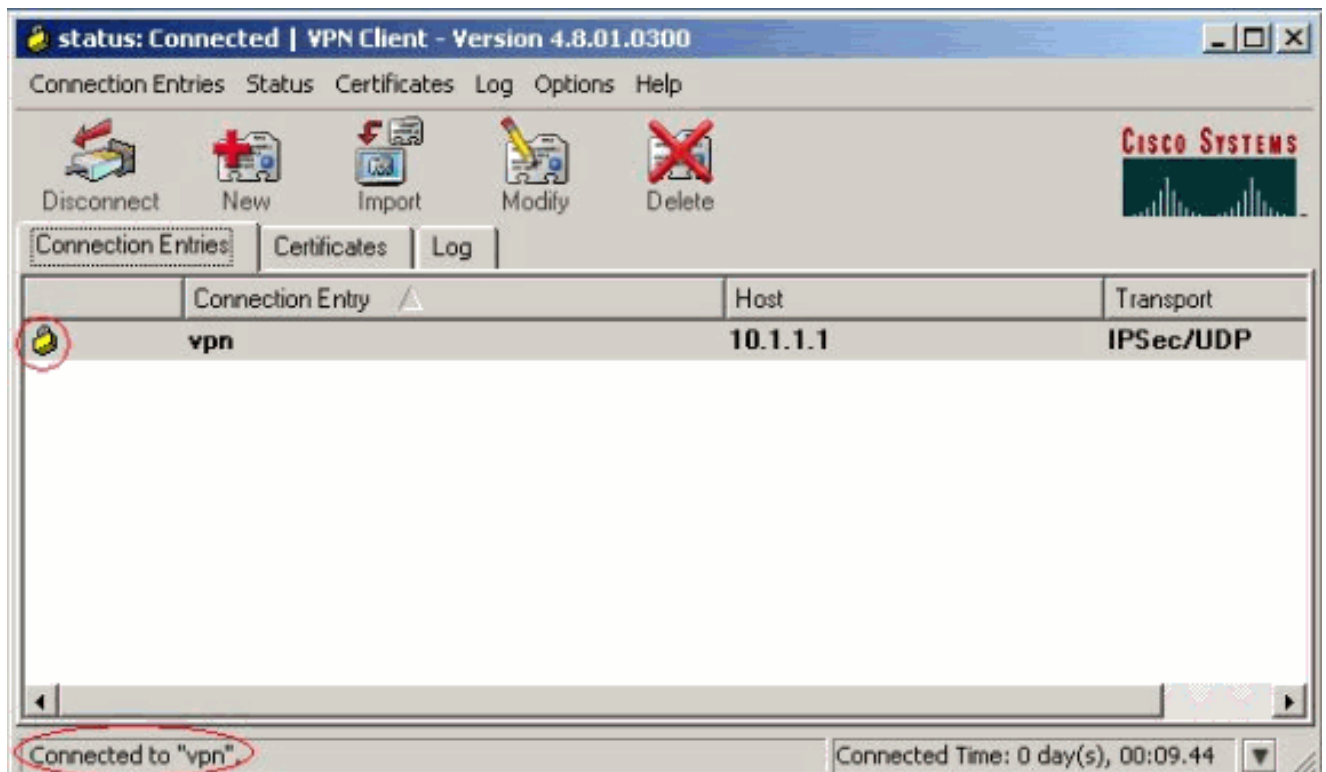
4. يسيئرلا راطالال نم لاصتالال قوف روناو هم ادختسا ديرت يذلا لاصتالال ىلع رونا .  
VPN ةكبش ليمعل



5. قفاوم قوف رقناو لاسرالل رورملا ةمك و مدختسملا مساتامولعم لخدأ، ةبلاطملا دنع ةديعبلا ةكبشلاب لاصتالل.



يترك رمل عقوملا يف هجوملاب VPN ةكبش ليمع لاصتلا متي.



## ةحصلا نم ققحتلا

ححص لكشب نيوكتلا لمع ديكأتل مسقلا اذه مدختسا

```
<#root>
```

```
vpn2611#
```

```
show crypto isakmp sa
```

```
dst          src          state          conn-id  slot
10.1.1.1    10.0.0.1
QM_IDLE
          3          0
```

```
vpn2611#
```

```
show crypto ipsec sa interface: Ethernet0/0
```

```
  Crypto map tag: clientmap,
```

```
local addr. 10.1.1.1
```

```
  local ident (addr/mask/prot/port): (10.1.1.1/255.255.255.255/0/0)
  remote ident (addr/mask/prot/port): (10.16.20.2/255.255.255.255/0/0)
```

```
current_peer: 10.0.0.1
```

```
  PERMIT, flags={}
```

```
#pkts encaps: 5, #pkts encrypt: 5, #pkts digest 5
```



#pkts decaps: 5, #pkts decrypt: 5, #pkts verify 5

#pkts compressed: 0, #pkts decompressed: 0

#pkts not compressed: 0, #pkts compr. failed: 0, #pkts decompress failed: 0

#send errors 0, #recv errors 0

local crypto endpt.: 10.1.1.1, remote crypto endpt.: 10.0.0.1

path mtu 1500, media mtu 1500

current outbound spi: 77AFCCFA

inbound esp sas:

spi: 0xC7AC22AB(3349947051)

transform: esp-3des esp-sha-hmac ,

in use settings ={Tunnel, }

slot: 0, conn id: 2000, flow\_id: 1, crypto map: clientmap

sa timing: remaining key lifetime (k/sec): (4608000/3444)

IV size: 8 bytes

replay detection support: Y

inbound ah sas:

inbound pcp sas:

outbound esp sas:

spi: 0x77AFCCFA(2008009978)

transform: esp-3des esp-sha-hmac ,

in use settings ={Tunnel, }

slot: 0, conn id: 2001, flow\_id: 2, crypto map: clientmap

sa timing: remaining key lifetime (k/sec): (4608000/3444)

IV size: 8 bytes

replay detection support: Y

outbound ah sas:

outbound pcp sas:

local ident (addr/mask/prot/port): (172.18.124.0/255.255.255.0/0/0)

remote ident (addr/mask/prot/port): (10.16.20.2/255.255.255.255/0/0)

current\_peer: 10.0.0.1

PERMIT, flags={}

#pkts encaps: 4, #pkts encrypt: 4, #pkts digest 4

#pkts decaps: 6, #pkts decrypt: 6, #pkts verify 6

#pkts compressed: 0, #pkts decompressed: 0

#pkts not compressed: 0, #pkts compr. failed: 0, #pkts decompress failed: 0

#send errors 0, #recv errors 0

local crypto endpt.: 10.1.1.1, remote crypto endpt.: 10.0.0.1

path mtu 1500, media mtu 1500

current outbound spi: 2EE5BF09

inbound esp sas:

spi: 0x3565451F(895829279)

transform: esp-3des esp-sha-hmac ,

in use settings ={Tunnel, }

slot: 0, conn id: 2002, flow\_id: 3, crypto map: clientmap

sa timing: remaining key lifetime (k/sec): (4607999/3469)

IV size: 8 bytes

replay detection support: Y

inbound ah sas:

inbound pcg sas:

outbound esp sas:

```
spi: 0x2EE5BF09(786808585)
transform: esp-3des esp-sha-hmac ,
in use settings ={Tunnel, }
slot: 0, conn id: 2003, flow_id: 4, crypto map: clientmap
sa timing: remaining key lifetime (k/sec): (4607999/3469)
IV size: 8 bytes
replay detection support: Y
```

outbound ah sas:

outbound pcg sas:

vpn2611#

show crypto engine connections active

ID	Interface	IP-Address	State	Algorithm	Encrypt	Decrypt
3	Ethernet0/0	10.1.1.1	set	HMAC_SHA+3DES_56_C	0	0
2000	Ethernet0/0	10.1.1.1	set	HMAC_SHA+3DES_56_C	0	5
2001	Ethernet0/0	10.1.1.1	set	HMAC_SHA+3DES_56_C	5	0
2002	Ethernet0/0	10.1.1.1	set	HMAC_SHA+3DES_56_C	0	6
2003	Ethernet0/0	10.1.1.1	set	HMAC_SHA+3DES_56_C	4	0

## اه حال صا و ااطخ ال فاشك ت سا

اه حال صا و ني وكت ال ااطخ ا فاشك ت سا ال مس ق ل ا اذ مدخت سا

## اه حال صا و ااطخ ال فاشك ت سا رم او

debug [رم او مدخت ست ن ا ل بق ااطخ ال احي حصت رم او ن ع ة مهم تام ول عم](#) ال ا ع ج را

- debug crypto ipSec—ت ال اصت ا لوح ااطخ ال احي حصت تام ول عم ضرعي
- debug crypto isakmp—IPSec ت ال اصت ا لوح ااطخ ال احي حصت تام ول عم ضرعي ال ك ال ع ق فاوت ال مدع ب بسب اه ضر فر م تي تي ال تام سل ال نم ال و ال ا ة ع وم ج م ال ن تي ا ه ال
- debug crypto engine—ري فش ت ال ك رح م نم تام ول عم ضرعي
- debug aaa authentication—AAA/TACACS+ ة ق داص م لوح تام ول عم ضرعي
- ضي وفت لوح تام ول عم ضرعي—(AAA) ة بس ا ح م ل او ضي وفت ل او ة ق داص م ال ااطخ احي حصت AAA/TACACS+.
- debug radius—مد ا خ ني ب اه حال صا و ل اصت ال ااطخ ا فاشك ت سا لوح تام ول عم ضرعي RADIUS ه ج وم ل او

## ااطخ ال احي حصت ج ا ر خ ا

فاشك ت سا ال هم ادخت سا ا ك ن ك مي ي ذل ا ه ج وم ل ال نم ااطخ ال احي حصت تام ول عم مس ق ل ا اذ رفوي

اه.احالصإو نيوكتل اءاطخأ

هجوم التال جس

<#root>

vpn2611#

show debug

General OS:

AAA Authorization debugging is on  
Radius protocol debugging is on  
Radius packet protocol debugging is on

Cryptographic Subsystem:

Crypto ISAKMP debugging is on  
Crypto IPSEC debugging is on

vpn2611#

1w0d: ISAKMP (0:0): received packet from 10.0.0.1 (N) NEW SA

1w0d: ISAKMP: local port 500, remote port 500

1w0d: ISAKMP (0:2): (Re)Setting client xauth list userauthen and state

1w0d: ISAKMP: Locking CONFIG struct 0x830BF118 from  
crypto\_ikmp\_config\_initialize\_sa, count 2

1w0d: ISAKMP (0:2): processing SA payload. message ID = 0

1w0d: ISAKMP (0:2): processing ID payload. message ID = 0

1w0d: ISAKMP (0:2): processing vendor id payload

1w0d: ISAKMP (0:2): vendor ID seems Unity/DPD but bad major

1w0d: ISAKMP (0:2): vendor ID is XAUTH

1w0d: ISAKMP (0:2): processing vendor id payload

1w0d: ISAKMP (0:2): vendor ID is DPD

1w0d: ISAKMP (0:2): processing vendor id payload

1w0d: ISAKMP (0:2): vendor ID is Unity

1w0d: ISAKMP (0:2): Checking ISAKMP transform 1 against priority 3 policy

1w0d: ISAKMP: encryption 3DES-CBC

1w0d: ISAKMP: hash SHA

1w0d: ISAKMP: default group 2

1w0d: ISAKMP: auth XAUTHInitPreShared

1w0d: ISAKMP: life type in seconds

1w0d: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B

1w0d: ISAKMP (0:2): atts are acceptable. Next payload is 3

1w0d: ISAKMP (0:2): processing KE payload. message ID = 0

1w0d: ISAKMP (0:2): processing NONCE payload. message ID = 0

1w0d: ISAKMP (0:2): processing vendor id payload

1w0d: ISAKMP (0:2): processing vendor id payload

1w0d: ISAKMP (0:2): processing vendor id payload

1w0d: AAA: parse name=ISAKMP-ID-AUTH idb type=-1 tty=-1

1w0d: AAA/MEMORY: create\_user (0x830CAF28) user='3000client' ruser='NULL'

ds0=0 port='ISAKMP-ID-AUTH' rem\_addr='10.0.0.1' authen\_type=NONE

service=LOGIN priv=0 initial\_task\_id='0'

1w0d: ISAKMP (0:2): Input = IKE\_MESG\_FROM\_PEER, IKE\_AM\_EXCH

Old State = IKE\_READY New State = IKE\_R\_AM\_AAA\_AWAIT

1w0d: ISAKMP-ID-AUTH AAA/AUTHOR/CRYPTO AAA(66832552):

Port='ISAKMP-ID-AUTH' list='groupauthor' service=NET  
1w0d: AAA/AUTHOR/CRYPTO AAA: ISAKMP-ID-AUTH(66832552) user='3000client'  
1w0d: ISAKMP-ID-AUTH AAA/AUTHOR/CRYPTO AAA(66832552): send AV service=ike  
1w0d: ISAKMP-ID-AUTH AAA/AUTHOR/CRYPTO AAA(66832552): send AV  
protocol=ipsec

1w0d: ISAKMP-ID-AUTH AAA/AUTHOR/CRYPTO AAA(66832552): found list  
"groupauthor"  
1w0d: ISAKMP-ID-AUTH AAA/AUTHOR/CRYPTO AAA(66832552): Method=radius

(radius)

1w0d: RADIUS: authenticating to get author data  
1w0d: RADIUS: ustruct sharecount=3  
1w0d: Radius: radius\_port\_info() success=0 radius\_nas\_port=1  
1w0d: RADIUS: Send to ISAKMP-ID-AUTH id 60 172.18.124.96:1645,  
Access-Request, len 83

1w0d: RADIUS: authenticator AF EC D3 AD D6 39 4F 7D - A0 5E FC 64 F5 DE  
A7 3B  
1w0d: RADIUS: NAS-IP-Address [4] 6 172.18.124.159  
1w0d: RADIUS: NAS-Port-Type [61] 6 Async [0]

1w0d: RADIUS: User-Name [1] 12 "3000client"

1w0d: RADIUS: Calling-Station-Id [31] 15 "10.0.0.1"  
1w0d: RADIUS: User-Password [2] 18 \*  
1w0d: RADIUS: Service-Type [6] 6 Outbound [5]

1w0d: RADIUS: Received from id 60 172.18.124.96:1645, Access-Accept, len  
176

1w0d: RADIUS: authenticator 52 BA 0A 38 AC C2 2B 6F - A0 77 64 93 D6 19  
78 CF  
1w0d: RADIUS: Service-Type [6] 6 Outbound [5]  
1w0d: RADIUS: Vendor, Cisco [26] 30  
1w0d: RADIUS: Cisco AVpair [1] 24 "ipsec:key-exchange=ike"  
1w0d: RADIUS: Vendor, Cisco [26] 40  
1w0d: RADIUS: Cisco AVpair [1] 34 "ipsec:key-exchange=preshared-key"  
1w0d: RADIUS: Vendor, Cisco [26] 30  
1w0d: RADIUS: Cisco AVpair [1] 24 "ipsec:addr-pool=ippool"  
1w0d: RADIUS: Vendor, Cisco [26] 23  
1w0d: RADIUS: Cisco AVpair [1] 17 "ipsec:inac1=108"  
1w0d: RADIUS: Tunnel-Type [64] 6 01:ESP [9]  
1w0d: RADIUS: Tunnel-Password [69] 21 \*  
1w0d: RADIUS: saved authorization data for user 830CAF28 at 83198648

1w0d: RADIUS: cisco AVPair "ipsec:key-exchange=ike"  
1w0d: RADIUS: cisco AVPair "ipsec:key-exchange=preshared-key"  
1w0d: RADIUS: cisco AVPair "ipsec:addr-pool=ippool"  
1w0d: RADIUS: cisco AVPair "ipsec:inac1=108"  
1w0d: RADIUS: Tunnel-Type, [01] 00 00 09  
1w0d: RADIUS: TAS(1) created and enqueued.  
1w0d: RADIUS: Tunnel-Password decrypted, [01] cisco123

1w0d: RADIUS: TAS(1) takes precedence over tagged attributes,  
tunnel\_type=esp  
1w0d: RADIUS: free TAS(1)  
1w0d: AAA/AUTHOR (66832552): Post authorization status = PASS\_REPL  
1w0d: ISAKMP: got callback 1  
AAA/AUTHOR/IKE: Processing AV key-exchange=ike  
AAA/AUTHOR/IKE: Processing AV key-exchange=preshared-key  
AAA/AUTHOR/IKE: Processing AV addr-pool=ippool  
AAA/AUTHOR/IKE: Processing AV inac1=108  
AAA/AUTHOR/IKE: Processing AV tunnel-type\*esp

```
AAA/AUTHOR/IKE: Processing AV tunnel-password=cisco123
AAA/AUTHOR/IKE: Processing AV tunnel-tag*1
1w0d: ISAKMP (0:2): SKEYID state generated
1w0d: ISAKMP (0:2): SA is doing pre-shared key authentication plus XAUTH
using id type ID_IPV4_ADDR
1w0d: ISAKMP (2): ID payload
next-payload : 10
type : 1
protocol : 17
port : 500
length : 8
1w0d: ISAKMP (2): Total payload length: 12
1w0d: ISAKMP (0:2): sending packet to 10.0.0.1 (R) AG_INIT_EXCH
1w0d: ISAKMP (0:2): Input = IKE_MSG_FROM_AAA, PRESHARED_KEY_REPLY
Old State = IKE_R_AM_AAA_AWAIT New State = IKE_R_AM2

1w0d: AAA/MEMORY: free_user (0x830CAF28) user='3000client' ruser='NULL'
port='ISAKMP-ID-AUTH' rem_addr='10.0.0.1' authen_type=NONE
service=LOGIN priv=0
1w0d: ISAKMP (0:2): received packet from 10.0.0.1 (R) AG_INIT_EXCH
1w0d: ISAKMP (0:2): processing HASH payload. message ID = 0
1w0d: ISAKMP (0:2): processing NOTIFY INITIAL_CONTACT protocol 1
spi 0, message ID = 0, sa = 831938B0
1w0d: ISAKMP (0:2): Process initial contact, bring down existing phase 1
and 2 SA's
1w0d: ISAKMP (0:2): returning IP addr to the address pool: 10.16.20.1
1w0d: ISAKMP (0:2): returning address 10.16.20.1 to pool
1w0d: ISAKMP (0:2): peer does not do paranoid keepalives.

1w0d: ISAKMP (0:2): SA has been authenticated with 10.0.0.1
1w0d: ISAKMP (0:2): sending packet to 10.0.0.1 (R) QM_IDLE
1w0d: ISAKMP (0:2): purging node -1377537628
1w0d: ISAKMP: Sending phase 1 responder lifetime 86400

1w0d: ISAKMP (0:2): Input = IKE_MSG_FROM_PEER, IKE_AM_EXCH
Old State = IKE_R_AM2 New State = IKE_P1_COMPLETE

1w0d: IPSEC(key_engine): got a queue event...
1w0d: IPSEC(key_engine_delete_sas): rec'd delete notify from ISAKMP
1w0d: IPSEC(key_engine_delete_sas): delete all SAs shared with
10.0.0.1
1w0d: ISAKMP (0:2): Need XAUTH
1w0d: AAA: parse name=ISAKMP idb type=-1 tty=-1
1w0d: AAA/MEMORY: create_user (0x830CAF28) user='NULL' ruser='NULL' ds0=0
port='ISAKMP' rem_addr='10.0.0.1' authen_type=ASCII service=LOGIN
priv=0 initial_task_id='0'
1w0d: ISAKMP (0:2): Input = IKE_MSG_INTERNAL, IKE_PHASE1_COMPLETE
Old State = IKE_P1_COMPLETE New State = IKE_XAUTH_AAA_START_LOGIN_AWAIT

1w0d: ISAKMP: got callback 1
1w0d: ISAKMP/xauth: request attribute XAUTH_TYPE_V2
1w0d: ISAKMP/xauth: request attribute XAUTH_MESSAGE_V2
1w0d: ISAKMP/xauth: request attribute XAUTH_USER_NAME_V2
1w0d: ISAKMP/xauth: request attribute XAUTH_USER_PASSWORD_V2
1w0d: ISAKMP (0:2): initiating peer config to 10.0.0.1. ID =
-1021889193
1w0d: ISAKMP (0:2): sending packet to 10.0.0.1 (R) CONF_XAUTH
1w0d: ISAKMP (0:2): Input = IKE_MSG_FROM_AAA, IKE_AAA_START_LOGIN
Old State = IKE_XAUTH_AAA_START_LOGIN_AWAIT New State =
IKE_XAUTH_REQ_SENT

1w0d: ISAKMP (0:1): purging node 832238598
```

1w0d: ISAKMP (0:1): purging node 1913225491  
1w0d: ISAKMP (0:2): received packet from 10.0.0.1 (R) CONF\_XAUTH  
1w0d: ISAKMP (0:2): processing transaction payload from 10.0.0.1.  
message ID = -1021889193  
1w0d: ISAKMP: Config payload REPLY  
1w0d: ISAKMP/xauth: reply attribute XAUTH\_TYPE\_V2 unexpected  
1w0d: ISAKMP/xauth: reply attribute XAUTH\_USER\_NAME\_V2  
1w0d: ISAKMP/xauth: reply attribute XAUTH\_USER\_PASSWORD\_V2  
1w0d: ISAKMP (0:2): deleting node -1021889193 error FALSE reason "done  
with xauth request/reply exchange"  
1w0d: ISAKMP (0:2): Input = IKE\_MESG\_FROM\_PEER, IKE\_CFG\_REPLY  
Old State = IKE\_XAUTH\_REQ\_SENT New State = IKE\_XAUTH\_AAA\_CONT\_LOGIN\_AWAIT

1w0d: RADIUS: ustruct sharecount=2  
1w0d: Radius: radius\_port\_info() success=0 radius\_nas\_port=1

1w0d: RADIUS: Send to ISAKMP id 61 172.18.124.96:1645, Access-Request, len 72

1w0d: RADIUS: authenticator 98 12 4F C0 DA B9 48 B8 - 58 00 BA 14 08 8E  
87 C0  
1w0d: RADIUS: NAS-IP-Address [4] 6 172.18.124.159  
1w0d: RADIUS: NAS-Port-Type [61] 6 Async [0]

1w0d: RADIUS: User-Name [1] 7 "cisco"

1w0d: RADIUS: Calling-Station-Id [31] 15 "10.0.0.1"  
1w0d: RADIUS: User-Password [2] 18 \*

1w0d: RADIUS: Received from id 61 172.18.124.96:1645, Access-Accept, len 26

1w0d: RADIUS: authenticator 00 03 F4 E1 9C 61 3F 03 - 54 83 E8 27 5C 6A  
7B 6E  
1w0d: RADIUS: Framed-IP-Address [8] 6 255.255.255.255  
1w0d: RADIUS: saved authorization data for user 830CAF28 at 830F89F8  
1w0d: ISAKMP: got callback 1  
1w0d: ISAKMP (0:2): initiating peer config to 10.0.0.1. ID =  
-547189328  
1w0d: ISAKMP (0:2): sending packet to 10.0.0.1 (R) CONF\_XAUTH  
1w0d: ISAKMP (0:2): Input = IKE\_MESG\_FROM\_AAA, IKE\_AAA\_CONT\_LOGIN  
Old State = IKE\_XAUTH\_AAA\_CONT\_LOGIN\_AWAIT New State = IKE\_XAUTH\_SET\_SENT

1w0d: AAA/MEMORY: free\_user (0x830CAF28) user='cisco' ruser='NULL'  
port='ISAKMP' rem\_addr='10.0.0.1' authen\_type=ASCII service=LOGIN  
priv=0  
1w0d: ISAKMP (0:2): received packet from 10.0.0.1 (R) CONF\_XAUTH  
1w0d: ISAKMP (0:2): processing transaction payload from 10.0.0.1.  
message ID = -547189328  
1w0d: ISAKMP: Config payload ACK  
1w0d: ISAKMP (0:2): XAUTH ACK Processed  
1w0d: ISAKMP (0:2): deleting node -547189328 error FALSE reason "done with  
transaction"  
1w0d: ISAKMP (0:2): Input = IKE\_MESG\_FROM\_PEER, IKE\_CFG\_ACK  
Old State = IKE\_XAUTH\_SET\_SENT New State = IKE\_P1\_COMPLETE

1w0d: ISAKMP (0:2): Input = IKE\_MESG\_INTERNAL, IKE\_PHASE1\_COMPLETE  
Old State = IKE\_P1\_COMPLETE New State = IKE\_P1\_COMPLETE

1w0d: ISAKMP (0:2): received packet from 10.0.0.1 (R) QM\_IDLE  
1w0d: ISAKMP (0:2): processing transaction payload from 10.0.0.1.  
message ID = -1911189201  
1w0d: ISAKMP: Config payload REQUEST  
1w0d: ISAKMP (0:2): checking request:  
1w0d: ISAKMP: IP4\_ADDRESS  
1w0d: ISAKMP: IP4\_NETMASK

```
1w0d: ISAKMP: IP4_DNS
1w0d: ISAKMP: IP4_NBNS
1w0d: ISAKMP: ADDRESS_EXPIRY
1w0d: ISAKMP: APPLICATION_VERSION
1w0d: ISAKMP: UNKNOWN Unknown Attr: 0x7000
1w0d: ISAKMP: UNKNOWN Unknown Attr: 0x7001
1w0d: ISAKMP: DEFAULT_DOMAIN
1w0d: ISAKMP: SPLIT_INCLUDE
1w0d: ISAKMP: UNKNOWN Unknown Attr: 0x7007
1w0d: ISAKMP: UNKNOWN Unknown Attr: 0x7008
1w0d: ISAKMP: UNKNOWN Unknown Attr: 0x7005
1w0d: AAA: parse name=ISAKMP-GROUP-AUTH idb type=-1 tty=-1
1w0d: AAA/MEMORY: create_user (0x830CAF28) user='3000client' ruser='NULL'
ds0=0 port='ISAKMP-GROUP-AUTH' rem_addr='10.0.0.1' authen_type=NONE
service=LOGIN priv=0 initial_task_id='0'
1w0d: ISAKMP (0:2): Input = IKE_MESG_FROM_PEER, IKE_CFG_REQUEST
0ld State = IKE_P1_COMPLETE New State = IKE_CONFIG_AUTHOR_AAA_AWAIT

1w0d: ISAKMP-GROUP-AUTH AAA/AUTHOR/CRYPTO AAA(3098118746):
Port='ISAKMP-GROUP-AUTH' list='groupauthor' service=NET
1w0d: AAA/AUTHOR/CRYPTO AAA: ISAKMP-GROUP-AUTH(3098118746)
user='3000client'
1w0d: ISAKMP-GROUP-AUTH AAA/AUTHOR/CRYPTO AAA(3098118746): send AV
service=ike
1w0d: ISAKMP-GROUP-AUTH AAA/AUTHOR/CRYPTO AAA(3098118746): send AV
protocol=ipsec
1w0d: ISAKMP-GROUP-AUTH AAA/AUTHOR/CRYPTO AAA(3098118746): found list
"groupauthor"
1w0d: ISAKMP-GROUP-AUTH AAA/AUTHOR/CRYPTO AAA(3098118746): Method=radius
(radius)
1w0d: RADIUS: authenticating to get author data
1w0d: RADIUS: ustruct sharecount=3
1w0d: Radius: radius_port_info() success=0 radius_nas_port=1
1w0d: RADIUS: Send to ISAKMP-GROUP-AUTH id 62 172.18.124.96:1645,
Access-Request, len 83
1w0d: RADIUS: authenticator 32 C5 32 FF AB B7 E4 68 - 9A 68 5A DE D5 56
0C BE
1w0d: RADIUS: NAS-IP-Address [4] 6 172.18.124.159
1w0d: RADIUS: NAS-Port-Type [61] 6 Async [0]
1w0d: RADIUS: User-Name [1] 12 "3000client"
1w0d: RADIUS: Calling-Station-Id [31] 15 "10.0.0.1"
1w0d: RADIUS: User-Password [2] 18 *
1w0d: RADIUS: Service-Type [6] 6 Outbound [5]
1w0d: RADIUS: Received from id 62 172.18.124.96:1645, Access-Accept, len
176
1w0d: RADIUS: authenticator DF FA FE 21 07 92 4F 10 - 75 5E D6 96 66 70
19 27
1w0d: RADIUS: Service-Type [6] 6 Outbound [5]
1w0d: RADIUS: Vendor, Cisco [26] 30
1w0d: RADIUS: Cisco AVpair [1] 24 "ipsec:key-exchange=ike"
1w0d: RADIUS: Vendor, Cisco [26] 40
1w0d: RADIUS: Cisco AVpair [1] 34
"ipsec:key-exchange=preshared-key"
1w0d: RADIUS: Vendor, Cisco [26] 30
1w0d: RADIUS: Cisco AVpair [1] 24 "ipsec:addr-pool=ippool"
1w0d: RADIUS: Vendor, Cisco [26] 23
1w0d: RADIUS: Cisco AVpair [1] 17 "ipsec:inac1=108"
1w0d: RADIUS: Tunnel-Type [64] 6 01:ESP [9]
1w0d: RADIUS: Tunnel-Password [69] 21 *
1w0d: RADIUS: saved authorization data for user 830CAF28 at 83143E64
1w0d: RADIUS: cisco AVPair "ipsec:key-exchange=ike"
1w0d: RADIUS: cisco AVPair "ipsec:key-exchange=preshared-key"
```

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1w0d: RADIUS: cisco AVPair "ipsec:addr-pool=ippool"
1w0d: RADIUS: cisco AVPair "ipsec:inac1=108"
1w0d: RADIUS: Tunnel-Type, [01] 00 00 09
1w0d: RADIUS: TAS(1) created and enqueued.
1w0d: RADIUS: Tunnel-Password decrypted, [01] cisco123
1w0d: RADIUS: TAS(1) takes precedence over tagged attributes,
tunnel_type=esp
1w0d: RADIUS: free TAS(1)
1w0d: AAA/AUTHOR (3098118746): Post authorization status = PASS_REPL
1w0d: ISAKMP: got callback 1
AAA/AUTHOR/IKE: Processing AV key-exchange=ike
AAA/AUTHOR/IKE: Processing AV key-exchange=preshared-key
AAA/AUTHOR/IKE: Processing AV addr-pool=ippool
AAA/AUTHOR/IKE: Processing AV inac1=108
AAA/AUTHOR/IKE: Processing AV tunnel-type*esp
AAA/AUTHOR/IKE: Processing AV tunnel-password=cisco123
AAA/AUTHOR/IKE: Processing AV tunnel-tag*1
1w0d: ISAKMP (0:2): attributes sent in message:
1w0d: Address: 0.2.0.0
1w0d: ISAKMP (0:2): allocating address 10.16.20.2
1w0d: ISAKMP: Sending private address: 10.16.20.2
1w0d: ISAKMP: Unknown Attr: IP4_NETMASK (0x2)
1w0d: ISAKMP: Sending ADDRESS_EXPIRY seconds left to use the address:
86395
1w0d: ISAKMP: Sending APPLICATION_VERSION string: Cisco Internetwork
Operating System Software
IOS (tm) C2600 Software (C2600-JK903S-M), Version 12.2(8)T, RELEASE
SOFTWARE (fc2)
TAC Support: http://www.cisco.com/tac
Copyright (c) 1986-2002 by cisco Systems, Inc.
Compiled Thu 14-Feb-02 16:50 by ccai
1w0d: ISAKMP: Unknown Attr: UNKNOWN (0x7000)
1w0d: ISAKMP: Unknown Attr: UNKNOWN (0x7001)
1w0d: ISAKMP: Sending split include name 108 network 14.38.0.0 mask
255.255.0.0 protocol 0, src port 0, dst port 0

1w0d: ISAKMP: Unknown Attr: UNKNOWN (0x7007)
1w0d: ISAKMP: Unknown Attr: UNKNOWN (0x7008)
1w0d: ISAKMP: Unknown Attr: UNKNOWN (0x7005)
1w0d: ISAKMP (0:2): responding to peer config from 10.0.0.1. ID =
-1911189201
1w0d: ISAKMP (0:2): sending packet to 10.0.0.1 (R) CONF_ADDR
1w0d: ISAKMP (0:2): deleting node -1911189201 error FALSE reason ""
1w0d: ISAKMP (0:2): Input = IKE_MSG_FROM_AAA, IKE_AAA_GROUP_ATTR
Old State = IKE_CONFIG_AUTHOR_AAA_AWAIT New State = IKE_P1_COMPLETE

1w0d: AAA/MEMORY: free_user (0x830CAF28) user='3000client' ruser='NULL'
port='ISAKMP-GROUP-AUTH' rem_addr='10.0.0.1' authen_type=NONE
service=LOGIN priv=0
1w0d: ISAKMP (0:2): received packet from 10.0.0.1 (R) QM_IDLE
1w0d: ISAKMP (0:2): processing HASH payload. message ID = 132557281
1w0d: ISAKMP (0:2): processing SA payload. message ID = 132557281
1w0d: ISAKMP (0:2): Checking IPSec proposal 1
1w0d: ISAKMP: transform 1, ESP_3DES
1w0d: ISAKMP: attributes in transform:
1w0d: ISAKMP: authenticator is HMAC-MD5
1w0d: ISAKMP: encaps is 1
1w0d: ISAKMP: SA life type in seconds
1w0d: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
1w0d: IPSEC(validate_proposal): transform proposal (prot 3, trans 3,
hmac_alg 1) not supported
1w0d: ISAKMP (0:2): atts not acceptable. Next payload is 0
```



1w0d: ISAKMP (0:2): skipping next ANDeD proposal (1)  
1w0d: ISAKMP (0:2): Checking IPsec proposal 2  
1w0d: ISAKMP: transform 1, ESP\_3DES  
1w0d: ISAKMP: attributes in transform:  
1w0d: ISAKMP: authenticator is HMAC-SHA  
1w0d: ISAKMP: encaps is 1  
1w0d: ISAKMP: SA life type in seconds  
1w0d: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B  
1w0d: ISAKMP (0:2): atts are acceptable.  
1w0d: ISAKMP (0:2): Checking IPsec proposal 2  
1w0d: ISAKMP (0:2): transform 1, IPPCP LZS  
1w0d: ISAKMP: attributes in transform:  
1w0d: ISAKMP: encaps is 1  
1w0d: ISAKMP: SA life type in seconds  
1w0d: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B  
1w0d: IPSEC(validate\_proposal): transform proposal (prot 4, trans 3, hmac\_alg 0) not supported  
1w0d: ISAKMP (0:2): atts not acceptable. Next payload is 0  
1w0d: ISAKMP (0:2): Checking IPsec proposal 3  
1w0d: ISAKMP: transform 1, ESP\_3DES  
1w0d: ISAKMP: attributes in transform:  
1w0d: ISAKMP: authenticator is HMAC-MD5  
1w0d: ISAKMP: encaps is 1  
1w0d: ISAKMP: SA life type in seconds  
1w0d: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B  
1w0d: IPSEC(validate\_proposal): transform proposal (prot 3, trans 3, hmac\_alg 1) not supported  
1w0d: ISAKMP (0:2): atts not acceptable. Next payload is 0  
1w0d: ISAKMP (0:2): Checking IPsec proposal 4  
1w0d: ISAKMP: transform 1, ESP\_3DES  
1w0d: ISAKMP: attributes in transform:  
1w0d: ISAKMP: authenticator is HMAC-SHA  
1w0d: ISAKMP: encaps is 1  
1w0d: ISAKMP: SA life type in seconds  
1w0d: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B  
  
1w0d: ISAKMP (0:2): atts are acceptable.  
  
1w0d: IPSEC(validate\_proposal\_request): proposal part #1,  
(key eng. msg.) INBOUND local= 10.1.1.1, remote= 10.0.0.1,  
local\_proxy= 10.1.1.1/255.255.255.255/0/0 (type=1),  
remote\_proxy= 10.16.20.2/255.255.255.255/0/0 (type=1),  
protocol= ESP, transform= esp-3des esp-sha-hmac ,  
lifedur= 0s and 0kb,  
spi= 0x0(0), conn\_id= 0, keysize= 0, flags= 0x4  
1w0d: ISAKMP (0:2): processing NONCE payload. message ID = 132557281  
1w0d: ISAKMP (0:2): processing ID payload. message ID = 132557281  
1w0d: ISAKMP (0:2): processing ID payload. message ID = 132557281  
1w0d: ISAKMP (0:2): asking for 1 spis from ipsec  
1w0d: ISAKMP (0:2): Node 132557281, Input = IKE\_MESG\_FROM\_PEER,  
IKE\_QM\_EXCH  
Old State = IKE\_QM\_READY New State = IKE\_QM\_SPI\_STARVE  
  
1w0d: IPSEC(key\_engine): got a queue event...  
1w0d: IPSEC(spi\_response): getting spi 245824456 for SA  
from 10.1.1.1 to 10.0.0.1 for prot 3  
1w0d: ISAKMP: received ke message (2/1)  
1w0d: ISAKMP (0:2): sending packet to 10.0.0.1 (R) QM\_IDLE  
1w0d: ISAKMP (0:2): Node 132557281, Input = IKE\_MESG\_FROM\_IPSEC,  
IKE\_SPI\_REPLY  
Old State = IKE\_QM\_SPI\_STARVE New State = IKE\_QM\_R\_QM2  
  
1w0d: ISAKMP (0:2): received packet from 10.0.0.1 (R) QM\_IDLE

```
1w0d: ISAKMP (0:2): Creating IPsec SAs
1w0d: inbound SA from 10.0.0.1 to 10.1.1.1
(proxy 10.16.20.2 to 10.1.1.1)
1w0d: has spi 0xEA6FBC8 and conn_id 2000 and flags 4
1w0d: lifetime of 2147483 seconds
1w0d: outbound SA from 10.1.1.1 to 10.0.0.1 (proxy
10.1.1.1 to 10.16.20.2 )
1w0d: has spi 1009463339 and conn_id 2001 and flags C
1w0d: lifetime of 2147483 seconds

1w0d: ISAKMP (0:2): deleting node 132557281 error FALSE reason "quick mode
done (await())"
1w0d: ISAKMP (0:2): Node 132557281, Input = IKE_MESG_FROM_PEER,
IKE_QM_EXCH
Old State = IKE_QM_R_QM2 New State = IKE_QM_PHASE2_COMPLETE

1w0d: IPSEC(key_engine): got a queue event...
1w0d: IPSEC(initialize_sas): ,
(key eng. msg.) INBOUND local= 10.1.1.1, remote= 10.0.0.1,
local_proxy= 10.1.1.1/0.0.0.0/0/0 (type=1),
remote_proxy= 10.16.20.2/0.0.0.0/0/0 (type=1),
protocol= ESP, transform= esp-3des esp-sha-hmac ,
lifedur= 2147483s and 0kb,
spi= 0xEA6FBC8(245824456), conn_id= 2000, keysize= 0, flags= 0x4
1w0d: IPSEC(initialize_sas): ,
(key eng. msg.) OUTBOUND local= 10.1.1.1, remote= 10.0.0.1,
local_proxy= 10.1.1.1/0.0.0.0/0/0 (type=1),
remote_proxy= 10.16.20.2/0.0.0.0/0/0 (type=1),
protocol= ESP, transform= esp-3des esp-sha-hmac ,
lifedur= 2147483s and 0kb,
spi= 0x3C2B302B(1009463339), conn_id= 2001, keysize= 0, flags= 0xC
1w0d: IPSEC(create_sa): sa created,
(sa) sa_dest= 10.1.1.1, sa_prot= 50,
sa_spi= 0xEA6FBC8(245824456),
sa_trans= esp-3des esp-sha-hmac , sa_conn_id= 2000
1w0d: IPSEC(create_sa): sa created,
(sa) sa_dest= 10.0.0.1, sa_prot= 50,
sa_spi= 0x3C2B302B(1009463339),
sa_trans= esp-3des esp-sha-hmac , sa_conn_id= 2001
1w0d: ISAKMP: received ke message (4/1)
1w0d: ISAKMP: Locking CONFIG struct 0x830BF118 for
crypto_ikmp_config_handle_kei_mess, count 3
1w0d: ISAKMP (0:1): purging SA., sa=83196748, delme=83196748
1w0d: ISAKMP: Unlocking CONFIG struct 0x830BF118 on return of attributes,
count 2
1w0d: ISAKMP (0:2): received packet from 10.0.0.1 (R) QM_IDLE
1w0d: ISAKMP (0:2): processing HASH payload. message ID = -1273332908
1w0d: ISAKMP (0:2): processing SA payload. message ID = -1273332908
1w0d: ISAKMP (0:2): Checking IPsec proposal 1
1w0d: ISAKMP: transform 1, ESP_3DES
1w0d: ISAKMP: attributes in transform:
1w0d: ISAKMP: authenticator is HMAC-MD5
1w0d: ISAKMP: encaps is 1
1w0d: ISAKMP: SA life type in seconds
1w0d: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
1w0d: IPSEC(validate_proposal): transform proposal (prot 3, trans 3,
hmac_alg 1) not supported
1w0d: ISAKMP (0:2): atts not acceptable. Next payload is 0
1w0d: ISAKMP (0:2): skipping next ANDed proposal (1)
1w0d: ISAKMP (0:2): Checking IPsec proposal 2
1w0d: ISAKMP: transform 1, ESP_3DES
1w0d: ISAKMP: attributes in transform:
1w0d: ISAKMP: authenticator is HMAC-SHA
```

1w0d: ISAKMP: encaps is 1  
1w0d: ISAKMP: SA life type in seconds  
1w0d: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B  
1w0d: ISAKMP (0:2): atts are acceptable.  
1w0d: ISAKMP (0:2): Checking IPsec proposal 2  
1w0d: ISAKMP (0:2): transform 1, IPPCP LZS  
1w0d: ISAKMP: attributes in transform:  
1w0d: ISAKMP: encaps is 1  
1w0d: ISAKMP: SA life type in seconds  
1w0d: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B  
1w0d: IPSEC(validate\_proposal): transform proposal (prot 4, trans 3, hmac\_alg 0) not supported  
1w0d: ISAKMP (0:2): atts not acceptable. Next payload is 0  
1w0d: ISAKMP (0:2): Checking IPsec proposal 3  
1w0d: ISAKMP: transform 1, ESP\_3DES  
1w0d: ISAKMP: attributes in transform:  
1w0d: ISAKMP: authenticator is HMAC-MD5  
1w0d: ISAKMP: encaps is 1  
1w0d: ISAKMP: SA life type in seconds  
1w0d: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B  
1w0d: IPSEC(validate\_proposal): transform proposal (prot 3, trans 3, hmac\_alg 1) not supported  
1w0d: ISAKMP (0:2): atts not acceptable. Next payload is 0  
1w0d: ISAKMP (0:2): Checking IPsec proposal 4  
1w0d: ISAKMP: transform 1, ESP\_3DES  
1w0d: ISAKMP: attributes in transform:  
1w0d: ISAKMP: authenticator is HMAC-SHA  
1w0d: ISAKMP: encaps is 1  
1w0d: ISAKMP: SA life type in seconds  
1w0d: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B  
1w0d: ISAKMP (0:2): atts are acceptable.  
1w0d: IPSEC(validate\_proposal\_request): proposal part #  
vpn2611#1,  
(key eng. msg.) INBOUND local= 10.1.1.1, remote= 10.0.0.1,  
local\_proxy= 14.38.0.0/255.255.0.0/0/0 (type=4),  
remote\_proxy= 10.16.20.2/255.255.255.255/0/0 (type=1),  
protocol= ESP, transform= esp-3des esp-sha-hmac ,  
lifedur= 0s and 0kb,  
spi= 0x0(0), conn\_id= 0, keysize= 0, flags= 0x4  
1w0d: ISAKMP (0:2): processing NONCE payload. message ID = -1273332908  
1w0d: ISAKMP (0:2): processing ID payload. message ID = -1273332908  
1w0d: ISAKMP (0:2): processing ID payload. message ID = -1273332908  
1w0d: ISAKMP (0:2): asking for 1 spis from ipsec  
1w0d: ISAKMP (0:2): Node -1273332908, Input = IKE\_MESG\_FROM\_PEER,  
IKE\_QM\_EXCH  
Old State = IKE\_QM\_READY New State = IKE\_QM\_SPI\_STARVE  
  
1w0d: IPSEC(key\_engine): got a queue event...  
1w0d: IPSEC(spi\_response): getting spi 593097454 for SA  
from 10.1.1.1 to 10.0.0.1  
vpn2611#  
vpn2611#2 for prot 3  
1w0d: ISAKMP: received ke message (2/1)  
1w0d: ISAKMP (0:2): sending packet to 10.0.0.1 (R) QM\_IDLE  
1w0d: ISAKMP (0:2): Node -1273332908, Input = IKE\_MESG\_FROM\_IPSEC,  
IKE\_SPI\_REPLY  
Old State = IKE\_QM\_SPI\_STARVE New State = IKE\_QM\_R\_QM2  
  
1w0d: ISAKMP (0:2): received packet from 10.0.0.1 (R) QM\_IDLE  
  
1w0d: ISAKMP (0:2): Creating IPsec SAs  
1w0d: inbound SA from 10.0.0.1 to 10.1.1.1  
(proxy 10.16.20.2 to 14.38.0.0)

```

1w0d: has spi 0x2359F2EE and conn_id 2002 and flags 4
1w0d: lifetime of 2147483 seconds
1w0d: outbound SA from 10.1.1.1 to 10.0.0.1 (proxy
14.38.0.0 to 10.16.20.2 )
1w0d: has spi 1123818858 and conn_id 2003 and flags C
1w0d: lifetime of 2147483 seconds

1w0d: ISAKMP (0:2): deleting node -1273332908 erro
vpn2611#un ar FALSE reason "quick mode done (await())"
1w0d: ISAKMP (0:2): Node -1273332908, Input = IKE_MESG_FROM_PEER,
IKE_QM_EXCH
Old State = IKE_QM_R_QM2 New State = IKE_QM_PHASE2_COMPLETE

1w0d: IPSEC(key_engine): got a queue event...
1w0d: IPSEC(initialize_sas): ,
(key eng. msg.) INBOUND local= 10.1.1.1, remote= 10.0.0.1,
local_proxy= 172.18.124.0/255.255.255.0/0/0 (type=4),
remote_proxy= 10.16.20.2/0.0.0.0/0/0 (type=1),
protocol= ESP, transform= esp-3des esp-sha-hmac ,
lifedur= 2147483s and 0kb,
spi= 0x2359F2EE(593097454), conn_id= 2002, keysize= 0, flags= 0x4
1w0d: IPSEC(initialize_sas): ,
(key eng. msg.) OUTBOUND local= 10.1.1.1, remote= 10.0.0.1,
local_proxy= 172.18.124.0/255.255.255.0/0/0 (type=4),
remote_proxy= 10.16.20.2/0.0.0.0/0/0 (type=1),
protocol= ESP, transform= esp-3des esp-sh11
All possible debugging has been turned off
vpn2611#a-hmac ,
lifedur= 2147483s and 0kb,
spi= 0x42FC1D6A(1123818858), conn_id= 2003, keysize= 0, flags= 0xC
1w0d: IPSEC(create_sa): sa created,
(sa) sa_dest= 10.1.1.1, sa_prot= 50,
sa_spi= 0x2359F2EE(593097454),
sa_trans= esp-3des esp-sha-hmac , sa_conn_id= 2002
1w0d: IPSEC(create_sa): sa created,
(sa) sa_dest= 10.0.0.1, sa_prot= 50,
sa_spi= 0x42FC1D6A(1123818858),
sa_trans= esp-3des esp-sha-hmac , sa_conn_id= 2003

```

## لي م عمل تال ج س

في فرصت ل لماع ن يي عت نم دكأت . تال ج س ل VPN لي م عمل ل LogViewer لي غ ش ت ب مق  
ل ج س ل تال ج س ل ج ذوم ن اذه . اهن ي و ك ت م ت ي تال تائ فال عي م جل "لي ل اع" ل ل :

- 1 16:48:10.203 03/05/02 Sev=Info/6 DIALER/0x63300002  
Initiating connection.
- 2 16:48:10.203 03/05/02 Sev=Info/4 CM/0x63100002  
Begin connection process
- 3 16:48:10.223 03/05/02 Sev=Info/4 CM/0x63100004  
Establish secure connection using Ethernet
- 4 16:48:10.223 03/05/02 Sev=Info/4 CM/0x63100026  
Attempt connection with server "10.1.1.1"
- 5 16:48:10.223 03/05/02 Sev=Info/6 IKE/0x6300003B

Attempting to establish a connection with 10.1.1.1.

6 16:48:10.273 03/05/02 Sev=Info/4 IKE/0x63000013  
SENDING >>> ISAKMP OAK AG (SA, KE, NON, ID, VID, VID, VID) to 10.1.1.1

7 16:48:10.273 03/05/02 Sev=Info/4 IPSEC/0x63700014  
Deleted all keys

8 16:48:10.994 03/05/02 Sev=Info/5 IKE/0x6300002F  
Received ISAKMP packet: peer = 10.1.1.1

9 16:48:10.994 03/05/02 Sev=Info/4 IKE/0x63000014  
RECEIVING <<< ISAKMP OAK AG (SA, VID, VID, VID, VID, KE, ID, NON, HASH)  
from 10.1.1.1

10 16:48:10.994 03/05/02 Sev=Info/5 IKE/0x63000059  
Vendor ID payload = 12F5F28C457168A9702D9FE274CC0100

11 16:48:10.994 03/05/02 Sev=Info/5 IKE/0x63000001  
Peer is a Cisco-Unity compliant peer

12 16:48:10.994 03/05/02 Sev=Info/5 IKE/0x63000059  
Vendor ID payload = AFCAD71368A1F1C96B8696FC77570100

13 16:48:10.994 03/05/02 Sev=Info/5 IKE/0x63000001  
Peer supports DPD

14 16:48:10.994 03/05/02 Sev=Info/5 IKE/0x63000059  
Vendor ID payload = 2D275A044215F48F531958AB2578EB2D

15 16:48:10.994 03/05/02 Sev=Info/5 IKE/0x63000059  
Vendor ID payload = 09002689DFD6B712

16 16:48:11.025 03/05/02 Sev=Info/4 IKE/0x63000013  
SENDING >>> ISAKMP OAK AG \*(HASH, NOTIFY:STATUS\_INITIAL\_CONTACT) to 10.1.1.1

17 16:48:11.045 03/05/02 Sev=Info/5 IKE/0x6300002F  
Received ISAKMP packet: peer = 10.1.1.1

18 16:48:11.045 03/05/02 Sev=Info/4 IKE/0x63000014  
RECEIVING <<< ISAKMP OAK INFO \*(HASH, NOTIFY:STATUS\_RESP\_LIFETIME)  
from 10.1.1.1

19 16:48:11.045 03/05/02 Sev=Info/5 IKE/0x63000044  
RESPONDER-LIFETIME notify has value of 86400 seconds

20 16:48:11.045 03/05/02 Sev=Info/5 IKE/0x63000046  
This SA has already been alive for 1 seconds,  
setting expiry to 86399 seconds from now

21 16:48:11.075 03/05/02 Sev=Info/5 IKE/0x6300002F  
Received ISAKMP packet: peer = 10.1.1.1

22 16:48:11.075 03/05/02 Sev=Info/4 IKE/0x63000014  
RECEIVING <<< ISAKMP OAK TRANS \*(HASH, ATTR) from 10.1.1.1

23 16:48:11.075 03/05/02 Sev=Info/4 CM/0x63100015  
Launch xAuth application

24 16:48:14.920 03/05/02 Sev=Info/4 CM/0x63100017  
xAuth application returned

25 16:48:14.920 03/05/02 Sev=Info/4 IKE/0x63000013  
SENDING >>> ISAKMP OAK TRANS \*(HASH, ATTR) to 10.1.1.1

26 16:48:14.990 03/05/02 Sev=Info/5 IKE/0x6300002F  
Received ISAKMP packet: peer = 10.1.1.1

27 16:48:14.990 03/05/02 Sev=Info/4 IKE/0x63000014  
RECEIVING <<< ISAKMP OAK TRANS \*(HASH, ATTR) from 10.1.1.1

28 16:48:14.990 03/05/02 Sev=Info/4 CM/0x6310000E  
Established Phase 1 SA. 1 Phase 1 SA in the system

29 16:48:15.000 03/05/02 Sev=Info/4 IKE/0x63000013  
SENDING >>> ISAKMP OAK TRANS \*(HASH, ATTR) to 10.1.1.1

30 16:48:15.010 03/05/02 Sev=Info/5 IKE/0x6300005D  
Client sending a firewall request to concentrator

31 16:48:15.010 03/05/02 Sev=Info/5 IKE/0x6300005C  
Firewall Policy: Product=Cisco Integrated Client,  
Capability= (Centralized Policy Push).

32 16:48:15.010 03/05/02 Sev=Info/4 IKE/0x63000013  
SENDING >>> ISAKMP OAK TRANS \*(HASH, ATTR) to 10.1.1.1

33 16:48:15.141 03/05/02 Sev=Info/5 IKE/0x6300002F  
Received ISAKMP packet: peer = 10.1.1.1

34 16:48:15.141 03/05/02 Sev=Info/4 IKE/0x63000014  
RECEIVING <<< ISAKMP OAK TRANS \*(HASH, ATTR) from 10.1.1.1

35 16:48:15.141 03/05/02 Sev=Info/5 IKE/0x63000010  
MODE\_CFG\_REPLY: Attribute = INTERNAL\_IPV4\_ADDRESS: , value = 10.16.20.2

36 16:48:15.141 03/05/02 Sev=Info/5 IKE/0xA3000017  
MODE\_CFG\_REPLY: The received (INTERNAL\_ADDRESS\_EXPIRY) attribute and value  
(86395) is not supported

37 16:48:15.141 03/05/02 Sev=Info/5 IKE/0x6300000E  
MODE\_CFG\_REPLY: Attribute = APPLICATION\_VERSION, value = Cisco Internetwork  
Operating System Software IOS (tm) C2600 Software (C2600-JK903S-M),  
Version 12.2(8)T, RELEASE SOFTWARE (fc2)  
TAC Support: <http://www.cisco.com/tac>  
Copyright (c) 1986-2002 by cisco Systems, Inc.  
Compiled Thu 14-Feb-02 16:50 by ccai

38 16:48:15.141 03/05/02 Sev=Info/5 IKE/0x6300000D  
MODE\_CFG\_REPLY: Attribute = MODECFG\_UNITY\_SPLIT\_INCLUDE (# of split\_nets),  
value = 0x00000001

39 16:48:15.141 03/05/02 Sev=Info/5 IKE/0x6300000F  
SPLIT\_NET #1  
subnet = 172.18.124.0  
mask = 255.255.255.0  
protocol = 0  
src port = 0  
dest port=0

40 16:48:15.141 03/05/02 Sev=Info/4 CM/0x63100019  
Mode Config data received

41 16:48:15.151 03/05/02 Sev=Info/5 IKE/0x63000055

Received a key request from Driver for IP address 10.1.1.1,  
GW IP = 10.1.1.1

42 16:48:15.151 03/05/02 Sev=Info/4 IKE/0x63000013  
SENDING >>> ISAKMP OAK QM \*(HASH, SA, NON, ID, ID) to 10.1.1.1

43 16:48:15.361 03/05/02 Sev=Info/4 IPSEC/0x63700014  
Deleted all keys

44 16:48:15.461 03/05/02 Sev=Info/5 IKE/0x6300002F  
Received ISAKMP packet: peer = 10.1.1.1

45 16:48:15.461 03/05/02 Sev=Info/4 IKE/0x63000014  
RECEIVING <<< ISAKMP OAK QM \*(HASH, SA, NON, ID, ID,  
NOTIFY:STATUS\_RESP\_LIFETIME) from 10.1.1.1

46 16:48:15.461 03/05/02 Sev=Info/5 IKE/0x63000044  
RESPONDER-LIFETIME notify has value of 3600 seconds

47 16:48:15.461 03/05/02 Sev=Info/5 IKE/0x63000045  
RESPONDER-LIFETIME notify has value of 4608000 kb

48 16:48:15.461 03/05/02 Sev=Info/4 IKE/0x63000013  
SENDING >>> ISAKMP OAK QM \*(HASH) to 10.1.1.1

49 16:48:15.461 03/05/02 Sev=Info/5 IKE/0x63000058  
Loading IPsec SA (Message ID = 0x07E6A9E1 OUTBOUND SPI = 0x0EA6FBC8  
INBOUND SPI = 0x3C2B302B)

50 16:48:15.461 03/05/02 Sev=Info/5 IKE/0x63000025  
Loaded OUTBOUND ESP SPI: 0x0EA6FBC8

51 16:48:15.471 03/05/02 Sev=Info/5 IKE/0x63000026  
Loaded INBOUND ESP SPI: 0x3C2B302B

52 16:48:15.471 03/05/02 Sev=Info/4 CM/0x6310001A  
One secure connection established

53 16:48:15.511 03/05/02 Sev=Info/6 DIALER/0x63300003  
Connection established.

54 16:48:15.581 03/05/02 Sev=Info/6 DIALER/0x63300008  
MAPI32 Information - Outlook not default mail client

55 16:48:16.553 03/05/02 Sev=Info/4 IPSEC/0x63700010  
Created a new key structure

56 16:48:16.553 03/05/02 Sev=Info/4 IPSEC/0x6370000F  
Added key with SPI=0xc8fba60e into key list

57 16:48:16.553 03/05/02 Sev=Info/4 IPSEC/0x63700010  
Created a new key structure

58 16:48:16.553 03/05/02 Sev=Info/4 IPSEC/0x6370000F  
Added key with SPI=0x2b302b3c into key list

59 16:48:26.357 03/05/02 Sev=Info/5 IKE/0x63000055  
Received a key request from Driver for IP address 172.18.124.159,  
GW IP = 10.1.1.1

60 16:48:26.357 03/05/02 Sev=Info/4 IKE/0x63000013  
SENDING >>> ISAKMP OAK QM \*(HASH, SA, NON, ID, ID) to 10.1.1.1

61 16:48:26.668 03/05/02 Sev=Info/5 IKE/0x6300002F  
Received ISAKMP packet: peer = 10.1.1.1

62 16:48:26.668 03/05/02 Sev=Info/4 IKE/0x63000014  
RECEIVING <<< ISAKMP OAK QM \*(HASH, SA, NON, ID, ID,  
NOTIFY:STATUS\_RESP\_LIFETIME) from 10.1.1.1

63 16:48:26.668 03/05/02 Sev=Info/5 IKE/0x63000044  
RESPONDER-LIFETIME notify has value of 3600 seconds

64 16:48:26.668 03/05/02 Sev=Info/5 IKE/0x63000045  
RESPONDER-LIFETIME notify has value of 4608000 kb

65 16:48:26.668 03/05/02 Sev=Info/4 IKE/0x63000013  
SENDING >>> ISAKMP OAK QM \*(HASH) to 10.1.1.1

66 16:48:26.668 03/05/02 Sev=Info/5 IKE/0x63000058  
Loading IPsec SA (Message ID = 0xB41A7B54 OUTBOUND SPI = 0x2359F2EE  
INBOUND SPI = 0x42FC1D6A)

67 16:48:26.668 03/05/02 Sev=Info/5 IKE/0x63000025  
Loaded OUTBOUND ESP SPI: 0x2359F2EE

68 16:48:26.668 03/05/02 Sev=Info/5 IKE/0x63000026  
Loaded INBOUND ESP SPI: 0x42FC1D6A

69 16:48:26.668 03/05/02 Sev=Info/4 CM/0x63100022  
Additional Phase 2 SA established.

## ةلص تاذا تامولعم

- [IKE تالوكوتورب/IPSec ةضوافم معد](#)
- [\(RFCs\) تاقيلع تالابلط](#)
- [Cisco Systems - تادنتس مل او ينقتللا معدلا](#)



ةمچرتل هذه ل و ح

ةلأل تاي نقتل ن م ة و مچ م ادخت ساب دن تسمل اذ ه Cisco ت مچرت  
ملاعلاء ان ا عي مچ ي ف ن ي م دخت سمل ل معد ي و تح م مي دقت ل ة ي رش ب ل و  
امك ة ق ي قد ن و ك ت ن ل ة ي ل أ ة مچرت ل ض ف أ ن أ ة ظ حال م ي ج ر ي . ة ص ا خ ل م ه ت غ ل ب  
Cisco ي ل خ ت . ف ر ت ح م مچرت م ا ه م د ق ي ي ت ل ا ة ي ف ا ر ت ح ا ل ا ة مچرت ل ا ع م ل ا ح ل ا و ه  
ي ل ا م ا د ع و ج ر ل ا ب ي ص و ت و ت ا مچرت ل ا ه ذ ه ة ق د ن ع ا ه ت ي ل و ئ س م Cisco  
Systems (رف و ت م ط بار ل ا) ي ل ص أ ل ا ي ز ي ل ج ن ا ل ا دن تسمل ا