

使用TACACS+使用者身份驗證的IOS路由器和Cisco VPN客戶端4.x for Windows之間的IPsec隧道配置示例

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簡介

本檔案介紹如何在路由器與使用終端存取控制器存取控制系統Plus(TACACS+)的思科虛擬私人網路(VPN)使用者端4.x之間設定IPsec連線，以進行使用者驗證。Cisco IOS[®]軟體版本12.2(8)T和更新版本支援從Cisco VPN Client 4.x建立的連線。VPN客戶端4.x使用Diffie-Hellman(D-H)組2策略。`isakmp policy # group 2`命令使4.x客戶端能夠連線。

本檔案將說明在TACACS+伺服器上透過授權進行驗證，例如由路由器本地執行Windows Internet命名服務(WINS)和網域命名服務(DNS)分配。

請參閱[使用本地擴展身份驗證將Cisco VPN Client 3.x for Windows配置為IOS](#)，以瞭解更多有關在Cisco IOS路由器本地進行使用者身份驗證的方案資訊。

請參閱[使用RADIUS進行使用者身份驗證](#)在Cisco IOS路由器和Cisco VPN客戶端4.x for Windows之間配置IPSec，以瞭解更多有關使用RADIUS協定在外部進行使用者身份驗證的方案詳細資訊。

必要條件

需求

嘗試此組態之前，請確保符合以下要求：

- 要分配給IPsec的地址池
- 一個名為「vpngroup」、密碼為「cisco123」的組
- TACACS+伺服器上的使用者身份驗證

採用元件

本文中的資訊係根據以下軟體和硬體版本：

- 適用於Windows版本4.0.2D的Cisco VPN客戶端 (任何VPN客戶端3.x或更高版本都應工作。)
- 適用於Windows的Cisco Secure 3.0版 (任何TACACS+伺服器都應工作)
- Cisco IOS 1710路由器版本12.2(8)T1已載入IPsec功能集此處顯示路由器上show version命令的輸出。

```
1710#show version
Cisco Internetwork Operating System Software
IOS (tm) C1700 Software (C1710-K9O3SY-M),
  Version 12.2(8)T1, RELEASE SOFTWARE (fc2)
TAC Support: http://www.cisco.com/tac
Copyright (c) 1986-2002 by cisco Systems, Inc.
Compiled Sat 30-Mar-02 13:30 by ccai
Image text-base: 0x80008108, data-base: 0x80C1E054

ROM: System Bootstrap, Version 12.2(1r)XE1, RELEASE SOFTWARE (fc1)

1710 uptime is 1 week, 6 days, 22 hours, 30 minutes
System returned to ROM by reload
System image file is "flash:c1710-k9o3sy-mz.122-8.T1"

cisco 1710 (MPC855T) processor (revision 0x200)
  with 27853K/4915K bytes of memory.
Processor board ID JAD052706CX (3234866109), with hardware revision 0000
MPC855T processor: part number 5, mask 2
Bridging software.
X.25 software, Version 3.0.0.
1 Ethernet/IEEE 802.3 interface(s)
1 FastEthernet/IEEE 802.3 interface(s)
1 Virtual Private Network (VPN) Module(s)
32K bytes of non-volatile configuration memory.
16384K bytes of processor board System flash (Read/Write)

Configuration register is 0x2102
```

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除 (預設) 的組態來啟動。如果您的網路正在作用，請確保您已瞭解任何指令可能造成的影響。

慣例

如需檔案慣例的相關資訊，請參閱[思科技術提示慣例](#)。

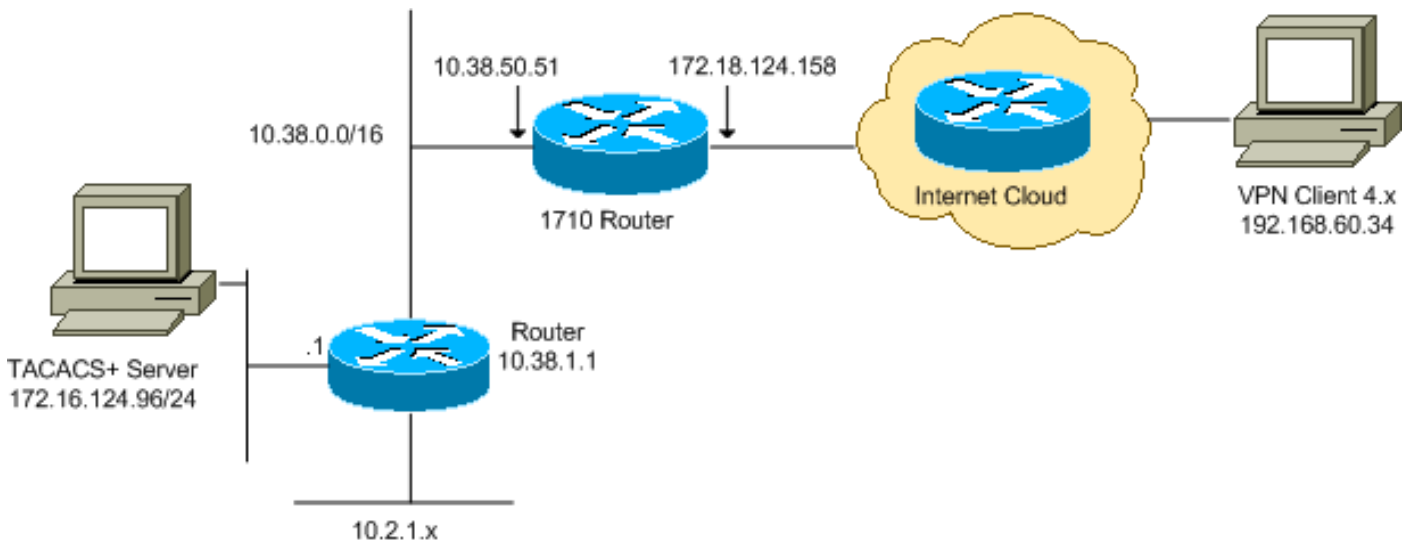
設定

本節提供用於設定本文件中所述功能的資訊。

註：使用[Command Lookup Tool](#)(僅限註冊客戶)可以查詢有關本文檔中使用的命令的詳細資訊。

網路圖表

本檔案會使用以下網路設定：



注意：此配置中使用的IP編址方案在Internet上不能合法路由。這些地址是[RFC 1918](#)，已在實驗室環境中使用。

組態

本檔案會使用以下設定：

- [思科1710路由器](#)
- [TACACS+伺服器](#)
- [VPN使用者端4.x](#)
- [分割通道](#)

思科1710路由器

思科1710路由器

```
1710#show run
Building configuration...

Current configuration : 1884 bytes
!
version 12.2
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
!
hostname 1710
!
!--- Enable authentication, authorization and accounting
(AAA) !--- for user authentication and group
authorization. aaa new-model
!
!--- In order to enable extended authentication (Xauth)
for user authentication, !--- enable the aaa
authentication commands. !--- The group TACACS+ command
```

specifies TACACS+ user authentication.

```
aaa authentication login userauthen group tacacs+
!--- In order to enable group authorization, !--- enable
the aaa authorization commands.
```

```
aaa authorization network groupauthor local
```

```
!
!
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 a group in order to specify the !--- WINS
and DNS server addresses to the VPN Client, !--- along
with the pre-shared key for authentication. crypto
```

```
isakmp client configuration group vpngroup
```

```
key cisco123
```

```
dns 10.2.1.10
```

```
wins 10.2.1.20
```

```
domain cisco.com
```

```
pool ippool
```

```
!
!--- Create the Phase 2 policy for actual data
encryption. crypto ipsec transform-set myset esp-3des
esp-sha-hmac
```

```
!--- Create a dynamic map, and !--- apply the transform
set that was previously 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 FastEthernet0
```

```
ip address 172.18.124.158 255.255.255.0
```

```
crypto map clientmap
```

```
!
interface Ethernet0
```

```

ip address 10.38.50.51 255.255.0.0
!
!--- Create a pool of addresses to be assigned to the
VPN Clients. ip local pool ippool 10.1.1.100 10.1.1.200
ip classless
ip route 0.0.0.0 0.0.0.0 172.18.124.1
ip route 172.16.124.0 255.255.255.0 10.38.1.1
ip route 10.2.1.0 255.255.255.0 10.38.1.1
ip http server
ip pim bidir-enable
!
!
!
!--- Specify the IP address of the TACACS+ server, !---
along with the TACACS+ shared secret key. tacacs-server
host 172.16.124.96 key cisco123
!
!
line con 0
  exec-timeout 0 0
line aux 0
line vty 0 4
!
!
end

```

TACACS+伺服器

若要設定TACACS+伺服器，請完成以下步驟：

1. 按一下「Add Entry」，在TACACS+伺服器資料庫中為路由器新增專案。

AAA Client Hostname	AAA Client IP Address	Authenticate Using
340	172.18.124.151	RADIUS (Cisco Aironet)
Aironet-340-Lab	10.36.1.99	RADIUS (Cisco Aironet)
others	<Default>	TACACS+ (Cisco IOS)

2. 在Add AAA Client頁面上，輸入路由器資訊，如下圖所示

:

在AAA Client Hostname欄位中，輸入路由器的名稱。在AAA Client IP Address欄位中，輸入10.38.50.51。在「金鑰」欄位中，輸入cisco123作為共用金鑰。在「Authenticate Using」下拉選單中，選擇TACACS+(Cisco IOS)，然後按一下Submit。

3. 在User欄位中，輸入Cisco Secure資料庫中VPN使用者的使用者名稱，然後按一下Add/Edit。在本範例中，使用者名稱是cisco。

4. 在下一頁中，輸入並確認使用者cisco的密碼。在本範例中，密碼也是cisco。

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.

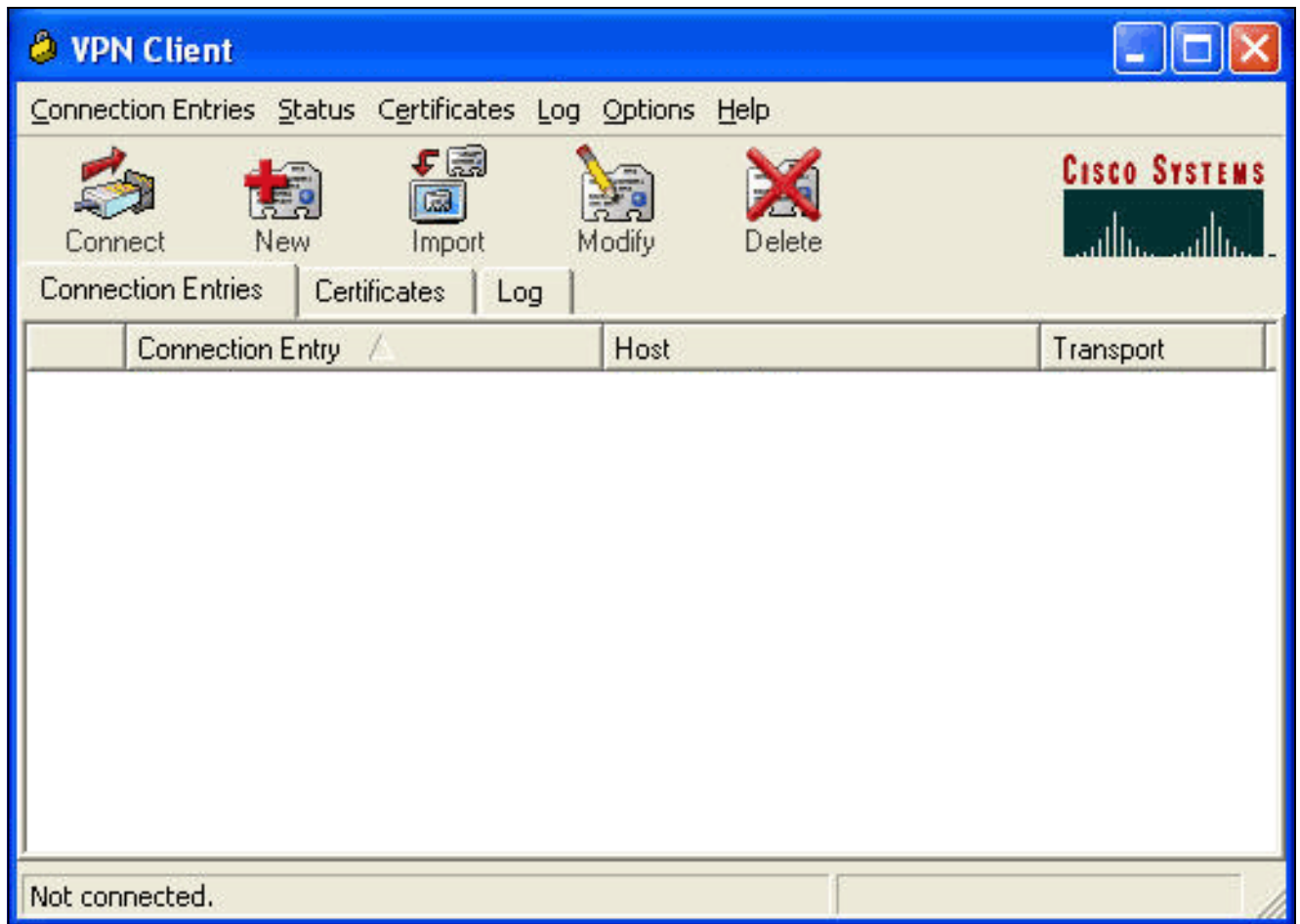
[\[Back to Top\]](#)

5. 如果要將使用者帳戶對映到組，請立即完成該步驟。完成後，按一下Submit。

[VPN使用者端4.x](#)

要配置VPN客戶端4.x，請完成以下步驟：

1. 啟動VPN客戶端，然後按一下New以建立新連線。



系統將顯示VPN Client Create New VPN Connection Entry對話方塊。

VPN Client | Create New VPN Connection Entry ✕

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

Erase User Password | Save | Cancel

2. 在Create New VPN Connection Entry對話方塊中，輸入連線資訊，如下圖所示

VPN Client | Create New VPN Connection Entry

Connection Entry: IOS

Description: Connection to an IOS router

Host: 172.18.124.158

Authentication | Transport | Backup Servers | Dial-Up

Group Authentication Mutual Group Authentication

Name: vpngroup

Password: *****

Confirm Password: *****

Certificate Authentication

Name: []

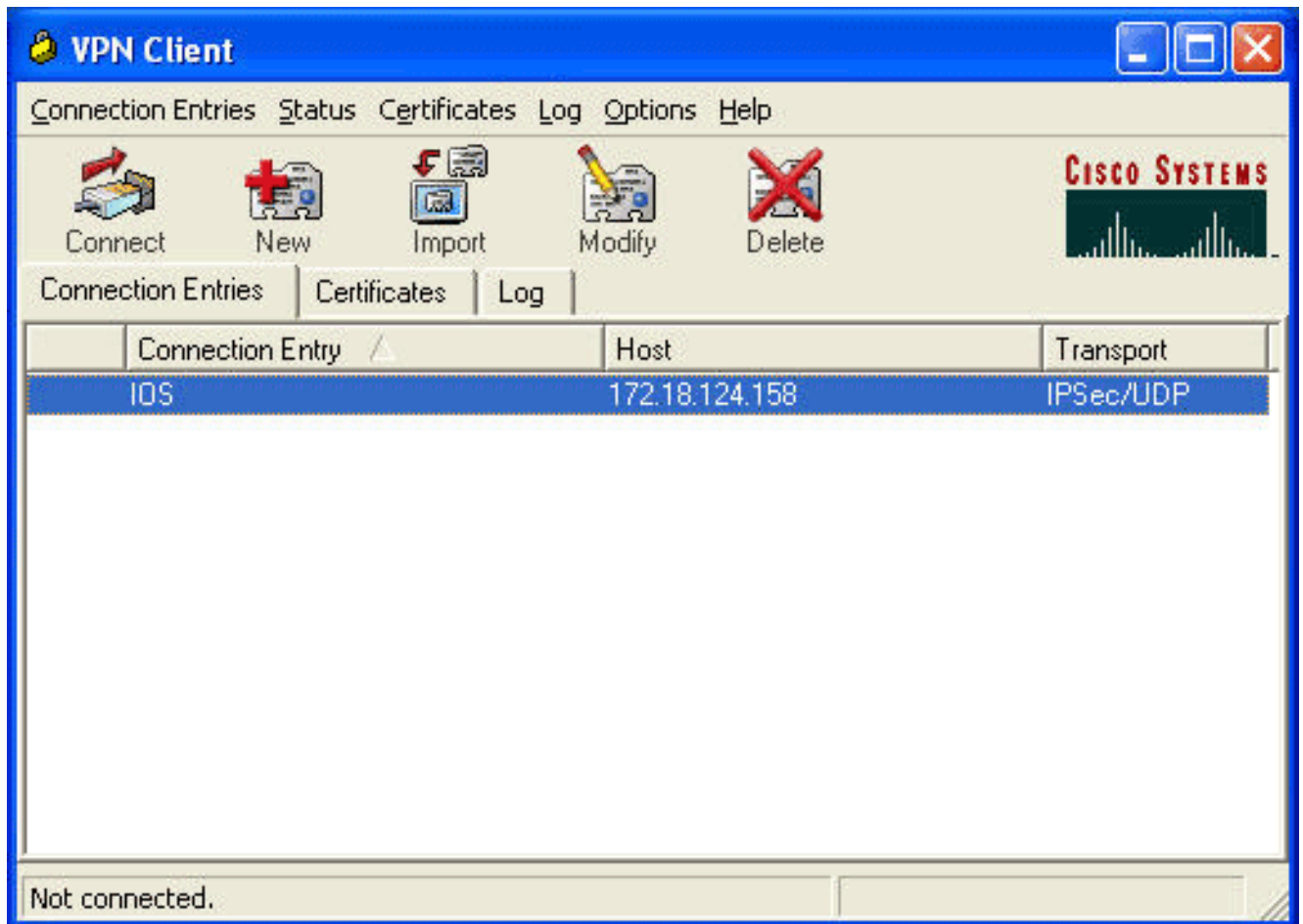
Send CA Certificate Chain

Erase User Password | Save | Cancel

在

Connection Entry欄位中，輸入連線的名稱。在Description和Host欄位中，輸入連線條目的說明和主機IP地址。在Authentication頁籤上，按一下**Group Authentication**單選按鈕，然後輸入使用者的名稱和密碼。按一下「**Save**」以儲存連線。

3. 在VPN Client視窗中，選擇您建立的連線條目，然後按一下**Connect**以連線到路由器。



4. 在IPsec協商時，系統會提示您輸入使用者名稱和密碼。輸入使用者名稱和密碼。視窗顯示以下消息：「正在協商安全配置檔案。」「您的連結現在已安全。」

分割通道

若要為VPN連線啟用分割通道，請確保在路由器上設定存取控制清單(ACL)。在本示例中，**access-list 102**命令與用於分割隧道目的的組關聯，並且隧道形成到10.38.X.X /16和10.2.x.x網路。未加密的流量流向不在ACL 102中的裝置（例如Internet）。

```
access-list 102 permit ip 10.38.0.0 0.0.255.255 10.1.1.0 0.0.0.255
access-list 102 permit ip 10.2.0.0 0.0.255.255 10.1.1.0 0.0.0.255
```

將ACL應用於組屬性。

```
crypto isakmp client configuration group vpngroup
key cisco123
dns 10.2.1.10
wins 10.2.1.20
domain cisco.com
pool ippool
acl 102
```

驗證

本節提供的資訊可用於確認您的組態是否正常運作。

[輸出直譯器工具](#)支援某些show命令(僅限註冊客戶)。此工具允許您檢視show命令輸出的分析。

```
1710#show crypto isakmp sa
dst          src          state          conn-id    slot
172.18.124.158 192.168.60.34 QM_IDLE          3          0

1710#show crypto ipsec sa

interface: FastEthernet0
Crypto map tag: clientmap, local addr. 172.18.124.158

local ident (addr/mask/prot/port): (172.18.124.158/255.255.255.255/0/0)
remote ident (addr/mask/prot/port): (10.1.1.114/255.255.255.255/0/0)
current_peer: 192.168.60.34
PERMIT, flags={}
#pkts encaps: 0, #pkts encrypt: 0, #pkts digest 0
#pkts decaps: 0, #pkts decrypt: 0, #pkts verify 0
#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.: 172.18.124.158, remote crypto endpt.: 192.168.60.34
path mtu 1500, media mtu 1500
current outbound spi: 8F9BB05F

inbound esp sas:
spi: 0x61C53A64(1640315492)
transform: esp-3des esp-sha-hmac ,
in use settings ={Tunnel, }
slot: 0, conn id: 200, flow_id: 1, crypto map: clientmap
sa timing: remaining key lifetime (k/sec): (4608000/3294)
IV size: 8 bytes
replay detection support: Y

inbound ah sas:

inbound pcp sas:

outbound esp sas:
spi: 0x8F9BB05F(2409345119)
transform: esp-3des esp-sha-hmac ,
in use settings ={Tunnel, }
slot: 0, conn id: 201, flow_id: 2, crypto map: clientmap
sa timing: remaining key lifetime (k/sec): (4608000/3294)
IV size: 8 bytes
replay detection support: Y

outbound ah sas:

outbound pcp sas:

local ident (addr/mask/prot/port): (10.38.0.0/255.255.0.0/0/0)
remote ident (addr/mask/prot/port): (10.1.1.114/255.255.255.255/0/0)
current_peer: 192.168.60.34
PERMIT, flags={}
#pkts encaps: 3, #pkts encrypt: 3, #pkts digest 3
#pkts decaps: 3, #pkts decrypt: 3, #pkts verify 3
#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.: 172.18.124.158, remote crypto endpt.: 192.168.60.34
path mtu 1500, media mtu 1500
current outbound spi: 8B57E45E
```

```
inbound esp sas:
spi: 0x89898D1A(2307493146)
transform: esp-3des esp-sha-hmac ,
in use settings ={Tunnel, }
slot: 0, conn id: 202, flow_id: 3, crypto map: clientmap
sa timing: remaining key lifetime (k/sec): (4607999/3452)
IV size: 8 bytes
replay detection support: Y
```

```
inbound ah sas:
```

```
inbound pcsp sas:
```

```
outbound esp sas:
spi: 0x8B57E45E(2337793118)
transform: esp-3des esp-sha-hmac ,
in use settings ={Tunnel, }
slot: 0, conn id: 203, flow_id: 4, crypto map: clientmap
sa timing: remaining key lifetime (k/sec): (4607999/3452)
IV size: 8 bytes
replay detection support: Y
```

```
outbound ah sas:
```

```
outbound pcsp sas:
```

```
1710#show crypto engine connections active
```

ID	Interface	IP-Address	State	Algorithm	Encrypt	Decrypt
2	FastEthernet0	172.18.124.158	set	HMAC_SHA+3DES_56_C	0	0
200	FastEthernet0	172.18.124.158	set	HMAC_SHA+3DES_56_C	0	0
201	FastEthernet0	172.18.124.158	set	HMAC_SHA+3DES_56_C	0	0
202	FastEthernet0	172.18.124.158	set	HMAC_SHA+3DES_56_C	0	3
203	FastEthernet0	172.18.124.158	set	HMAC_SHA+3DES_56_C	3	0

疑難排解

本節提供的資訊可用於對組態進行疑難排解。

疑難排解指令

[輸出直譯器工具](#)(僅供[已註冊](#)客戶使用)(OIT)支援某些show命令。使用OIT檢視show指令輸出的分析。

附註：使用 debug 指令之前，請先參閱[有關 Debug 指令的重要資訊](#)。

- debug crypto ipsec — 顯示有關IPsec連線的調試資訊。
- debug crypto isakmp — 顯示有關IPsec連線的調試資訊，並顯示由於兩端的不相容性而被拒絕的第一組屬性。
- debug crypto engine — 顯示來自加密引擎的資訊。

- **debug aaa authentication** — 顯示有關AAA/TACACS+身份驗證的資訊。
- **debug aaa authorization** — 顯示有關AAA/TACACS+授權的資訊。
- **debug tacacs** — 顯示允許您對TACACS+伺服器 and 路由器之間的通訊進行故障排除的資訊。

路由器日誌

```

1710#show debug
General OS:
TACACS access control debugging is on
AAA Authentication debugging is on
AAA Authorization debugging is on
Cryptographic Subsystem:
Crypto ISAKMP debugging is on
Crypto Engine debugging is on
Crypto IPSEC debugging is on

1710#
1w6d: ISAKMP (0:0): received packet from 192.168.60.34 (N) NEW SA
1w6d: ISAKMP: local port 500, remote port 500
1w6d: ISAKMP (0:2): (Re)Setting client xauth list userauthen and state
1w6d: ISAKMP: Locking CONFIG struct 0x8158B894 from
    crypto_ikmp_config_initialize_sa, count 2
1w6d: ISAKMP (0:2): processing SA payload. message ID = 0
1w6d: ISAKMP (0:2): processing ID payload. message ID = 0
1w6d: ISAKMP (0:2): processing vendor id payload
1w6d: ISAKMP (0:2): vendor ID seems Unity/DPD but bad major
1w6d: ISAKMP (0:2): vendor ID is XAUTH
1w6d: ISAKMP (0:2): processing vendor id payload
1w6d: ISAKMP (0:2): vendor ID is DPD
1w6d: ISAKMP (0:2): processing vendor id payload
1w6d: ISAKMP (0:2): vendor ID is Unity
1w6d: ISAKMP (0:2): Checking ISAKMP transform 1 against priority 3 policy
1w6d: ISAKMP: encryption 3DES-CBC
1w6d: ISAKMP: hash SHA
1w6d: ISAKMP: default group 2
1w6d: ISAKMP: auth XAUTHInitPreShared
1w6d: ISAKMP: life type in seconds
1w6d: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B
1w6d: ISAKMP (0:2): atts are acceptable. Next payload is 3
1w6d: CryptoEngine0: generate alg parameter
1w6d: CryptoEngine0: CRYPTO_ISA_DH_CREATE(hw)(ipsec)
1w6d: CRYPTO_ENGINE: Dh phase 1 status: 0
1w6d: ISAKMP (0:2): processing KE payload. message ID = 0
1w6d: CryptoEngine0: generate alg parameter
1w6d: CryptoEngine0: CRYPTO_ISA_DH_SHARE_SECRET(hw)(ipsec)
1w6d: ISAKMP (0:2): processing NONCE payload. message ID = 0
1w6d: ISAKMP (0:2): processing vendor id payload
1w6d: ISAKMP (0:2): processing vendor id payload
1w6d: ISAKMP (0:2): processing vendor id payload
1w6d: AAA: parse name=ISAKMP-ID-AUTH idb type=-1 tty=-1
1w6d: AAA/MEMORY: create_user (0x817F63F4) user='vpngroup' ruser='NULL' ds0=0
    port='ISAKMP-ID-AUTH' rem_addr='192.168.60.34' authen_type=NONE
    service=LOGIN priv=0 initial_task_id='0'
1w6d: ISAKMP (0:2): Input = IKE_MSG_FROM_PEER, IKE_AM_EXCH
Old State = IKE_READY New State = IKE_R_AM_AAA_AWAIT

1w6d: ISAKMP-ID-AUTH AAA/AUTHOR/CRYPTO AAA(1472763894):
    Port='ISAKMP-ID-AUTH' list='groupauthor' service=NET
1w6d: AAA/AUTHOR/CRYPTO AAA: ISAKMP-ID-AUTH(1472763894) user='vpngroup'

```

```
lw6d: ISAKMP-ID-AUTH AAA/AUTHOR/CRYPTO AAA(1472763894): send AV service=ike
lw6d: ISAKMP-ID-AUTH AAA/AUTHOR/CRYPTO AAA(1472763894): send AV protocol=ipsec
lw6d: ISAKMP-ID-AUTH AAA/AUTHOR/CRYPTO AAA(1472763894): found list "groupauthor"
lw6d: ISAKMP-ID-AUTH AAA/AUTHOR/CRYPTO AAA(1472763894): Method=LOCAL
lw6d: AAA/AUTHOR (1472763894): Post authorization status = PASS_ADD
lw6d: ISAKMP: got callback 1
AAA/AUTHOR/IKE: Processing AV service=ike
AAA/AUTHOR/IKE: Processing AV protocol=ipsec
AAA/AUTHOR/IKE: Processing AV tunnel-password=cisco123
AAA/AUTHOR/IKE: Processing AV default-domain*cisco.com
AAA/AUTHOR/IKE: Processing AV addr-pool*ippool
AAA/AUTHOR/IKE: Processing AV key-exchange=ike
AAA/AUTHOR/IKE: Processing AV timeout*0
AAA/AUTHOR/IKE: Processing AV idletime*0
AAA/AUTHOR/IKE: Processing AV inacl*102
AAA/AUTHOR/IKE: Processing AV dns-servers*10.1.1.10 0.0.0.0
AAA/AUTHOR/IKE: Processing AV wins-servers*10.1.1.20 0.0.0.0
lw6d: CryptoEngine0: create ISAKMP SKEYID for conn id 2
lw6d: CryptoEngine0: CRYPTO_ISA_SA_CREATE(hw)(ipsec)
lw6d: ISAKMP (0:2): SKEYID state generated
lw6d: ISAKMP (0:2): SA is doing pre-shared key authentication plux
    XAUTH using id type ID_IPV4_ADDR
lw6d: ISAKMP (2): ID payload
next-payload : 10
type : 1
protocol : 17
port : 500
length : 8
lw6d: ISAKMP (2): Total payload length: 12
lw6d: CryptoEngine0: generate hmac context for conn id 2
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
lw6d: ISAKMP (0:2): sending packet to 192.168.60.34 (R) AG_INIT_EXCH
lw6d: ISAKMP (0:2): Input = IKE_MSG_FROM_AAA, PRESHARED_KEY_REPLY
Old State = IKE_R_AM_AAA_AWAIT New State = IKE_R_AM2

lw6d: AAA/MEMORY: free_user (0x817F63F4) user='vpngroup'
    ruser='NULL' port='ISAK MP-ID-AUTH' rem_addr='192.168.60.34'
    authen_type=NONE service=LOGIN priv=0
lw6d: ISAKMP (0:2): received packet from 192.168.60.34 (R) AG_INIT_EXCH
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_DECRYPT(hw)(ipsec)
lw6d: ISAKMP (0:2): processing HASH payload. message ID = 0
lw6d: CryptoEngine0: generate hmac context for conn id 2
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
lw6d: ISAKMP (0:2): processing NOTIFY INITIAL_CONTACT protocol 1
    spi 0, message ID = 0, sa = 81673884
lw6d: ISAKMP (0:2): Process initial contact, bring down
    existing phase 1 and 2 SA's
lw6d: ISAKMP (0:2): returning IP addr to the address pool: 10.1.1.113
lw6d: ISAKMP (0:2): returning address 10.1.1.113 to pool
lw6d: ISAKMP (0:2): peer does not do paranoid keepalives.

lw6d: ISAKMP (0:2): SA has been authenticated with 192.168.60.34
lw6d: CryptoEngine0: clear dh number for conn id 1
lw6d: CryptoEngine0: CRYPTO_ISA_DH_DELETE(hw)(ipsec)
lw6d: IPSEC(key_engine): got a queue event...
lw6d: IPSEC(key_engine_delete_sas): rec'd delete notify from ISAKMP
lw6d: IPSEC(key_engine_delete_sas): delete all SAs shared with 192.168.60.34
lw6d: CryptoEngine0: generate hmac context for conn id 2
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_ENCRYPT(hw)(ipsec)
lw6d: ISAKMP (0:2): sending packet to 192.168.60.34 (R) QM_IDLE
lw6d: ISAKMP (0:2): purging node 1324880791
lw6d: ISAKMP: Sending phase 1 responder lifetime 86400
```

```
lw6d: ISAKMP (0:2): Input = IKE_MSG_FROM_PEER, IKE_AM_EXCH
Old State = IKE_R_AM2 New State = IKE_P1_COMPLETE

lw6d: ISAKMP (0:2): Need XAUTH
lw6d: AAA: parse name=ISAKMP idb type=-1 tty=-1
lw6d: AAA/MEMORY: create_user (0x812F79FC) user='NULL'
    ruser='NULL' ds0=0 port='
ISAKMP' rem_addr='192.168.60.34' authen_type=ASCII service=LOGIN
    priv=0 initial_task_id='0'
lw6d: ISAKMP (0:2): Input = IKE_MSG_INTERNAL, IKE_PHASE1_COMPLETE
Old State = IKE_P1_COMPLETE New State = IKE_XAUTH_AAA_START_LOGIN_AWAIT

lw6d: AAA/AUTHEN/START (2017610393): port='ISAKMP' list='userauthen'
    action=LOGIN service=LOGIN
lw6d: AAA/AUTHEN/START (2017610393): found list userauthen
lw6d: AAA/AUTHEN/START (2017610393): Method=tacacs+ (tacacs+)
lw6d: TAC+: send AUTHEN/START packet ver=192 id=2017610393
lw6d: TAC+: Using default tacacs server-group "tacacs+" list.
lw6d: TAC+: Opening TCP/IP to 172.16.124.96/49 timeout=5
lw6d: TAC+: Opened TCP/IP handle 0x8183D638 to 172.16.124.96/49
lw6d: TAC+: 172.16.124.96 (2017610393) AUTHEN/START/LOGIN/ASCII queued
lw6d: TAC+: (2017610393) AUTHEN/START/LOGIN/ASCII processed
lw6d: TAC+: ver=192 id=2017610393 received AUTHEN status = GETUSER
lw6d: AAA/AUTHEN(2017610393): Status=GETUSER
lw6d: ISAKMP: got callback 1
lw6d: ISAKMP/xauth: request attribute XAUTH_TYPE_V2
lw6d: ISAKMP/xauth: request attribute XAUTH_MESSAGE_V2
lw6d: ISAKMP/xauth: request attribute XAUTH_USER_NAME_V2
lw6d: ISAKMP/xauth: request attribute XAUTH_USER_PASSWORD_V2
lw6d: CryptoEngine0: generate hmac context for conn id 2
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
lw6d: ISAKMP (0:2): initiating peer config to 192.168.60.34. ID = 1641488057
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_ENCRYPT(hw)(ipsec)
lw6d: ISAKMP (0:2): sending packet to 192.168.60.34 (R) CONF_XAUTH
lw6d: 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

lw6d: ISAKMP (0:2): received packet from 192.168.60.34 (R) CONF_XAUTH
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_DECRYPT(hw)(ipsec)
lw6d: ISAKMP (0:2): processing transaction payload from 192.168.60.34.
    message ID = 1641488057
lw6d: CryptoEngine0: generate hmac context for conn id 2
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
lw6d: ISAKMP: Config payload REPLY
lw6d: ISAKMP/xauth: reply attribute XAUTH_TYPE_V2 unexpected
lw6d: ISAKMP/xauth: reply attribute XAUTH_USER_NAME_V2
lw6d: ISAKMP/xauth: reply attribute XAUTH_USER_PASSWORD_V2
lw6d: ISAKMP (0:2): deleting node 1641488057 error FALSE
    reason "done with xauth request/reply exchange"
lw6d: ISAKMP (0:2): Input = IKE_MSG_FROM_PEER, IKE_CFG_REPLY
Old State = IKE_XAUTH_REQ_SENT
    New State = IKE_XAUTH_AAA_CONT_LOGIN_AWAIT

lw6d: AAA/AUTHEN/CONT (2017610393): continue_login (user='(undef)')
lw6d: AAA/AUTHEN(2017610393): Status=GETUSER
lw6d: AAA/AUTHEN(2017610393): Method=tacacs+ (tacacs+)
lw6d: TAC+: send AUTHEN/CONT packet id=2017610393
lw6d: TAC+: 172.16.124.96 (2017610393) AUTHEN/CONT queued
lw6d: TAC+: (2017610393) AUTHEN/CONT processed
lw6d: TAC+: ver=192 id=2017610393 received AUTHEN status = GETPASS
lw6d: AAA/AUTHEN(2017610393): Status=GETPASS
lw6d: AAA/AUTHEN/CONT (2017610393): continue_login (user='cisco')
lw6d: AAA/AUTHEN(2017610393): Status=GETPASS
```



```
lw6d: AAA/AUTHEN(2017610393): Method=tacacs+ (tacacs+)
lw6d: TAC+: send AUTHEN/CONT packet id=2017610393
lw6d: TAC+: 172.16.124.96 (2017610393) AUTHEN/CONT queued
lw6d: TAC+: (2017610393) AUTHEN/CONT processed
lw6d: TAC+: ver=192 id=2017610393 received AUTHEN status = PASS
lw6d: AAA/AUTHEN(2017610393): Status=PASS
lw6d: ISAKMP: got callback 1
lw6d: TAC+: Closing TCP/IP 0x8183D638 connection to 172.16.124.96/49
lw6d: CryptoEngine0: generate hmac context for conn id 2
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
lw6d: ISAKMP (0:2): initiating peer config to 192.168.60.34. ID = 1736579999
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_ENCRYPT(hw)(ipsec)
lw6d: ISAKMP (0:2): sending packet to 192.168.60.34 (R) CONF_XAUTH
lw6d: ISAKMP (0:2): Input = IKE_MSG_FROM_AAA, IKE_AAA_CONT_LOGIN
Old State = IKE_XAUTH_AAA_CONT_LOGIN_AWAIT
New State = IKE_XAUTH_SET_SENT

lw6d: AAA/MEMORY: free_user (0x812F79FC) user='cisco' ruser='NULL'
port='ISAKMP' rem_addr='192.168.60.34' authen_type=ASCII
service=LOGIN priv=0
lw6d: ISAKMP (0:2): received packet from 192.168.60.34 (R) CONF_XAUTH
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_DECRYPT(hw)(ipsec)
lw6d: ISAKMP (0:2): processing transaction payload from 192.168.60.34.
message ID = 1736579999
lw6d: CryptoEngine0: generate hmac context for conn id 2
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
lw6d: ISAKMP: Config payload ACK
lw6d: ISAKMP (0:2): XAUTH ACK Processed
lw6d: ISAKMP (0:2): deleting node 1736579999 error FALSE
reason "done with transaction"
lw6d: ISAKMP (0:2): Input = IKE_MSG_FROM_PEER, IKE_CFG_ACK
Old State = IKE_XAUTH_SET_SENT New State = IKE_P1_COMPLETE

lw6d: ISAKMP (0:2): Input = IKE_MSG_INTERNAL, IKE_PHASE1_COMPLETE
Old State = IKE_P1_COMPLETE New State = IKE_P1_COMPLETE

lw6d: ISAKMP (0:2): received packet from 192.168.60.34 (R) QM_IDLE
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_DECRYPT(hw)(ipsec)
lw6d: ISAKMP (0:2): processing transaction payload from 192.168.60.34.
message ID = 398811763
lw6d: CryptoEngine0: generate hmac context for conn id 2
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
lw6d: ISAKMP: Config payload REQUEST
lw6d: ISAKMP (0:2): checking request:
lw6d: ISAKMP: IP4_ADDRESS
lw6d: ISAKMP: IP4_NETMASK
lw6d: ISAKMP: IP4_DNS
lw6d: ISAKMP: IP4_NBNS
lw6d: ISAKMP: ADDRESS_EXPIRY
lw6d: ISAKMP: APPLICATION_VERSION
lw6d: ISAKMP: UNKNOWN Unknown Attr: 0x7000
lw6d: ISAKMP: UNKNOWN Unknown Attr: 0x7001
lw6d: ISAKMP: DEFAULT_DOMAIN
lw6d: ISAKMP: SPLIT_INCLUDE
lw6d: ISAKMP: UNKNOWN Unknown Attr: 0x7007
lw6d: ISAKMP: UNKNOWN Unknown Attr: 0x7008
lw6d: ISAKMP: UNKNOWN Unknown Attr: 0x7005
lw6d: AAA: parse name=ISAKMP-GROUP-AUTH idb type=-1 tty=-1
lw6d: AAA/MEMORY: create_user (0x812F79FC) user='vpngroup' ruser='NULL' ds0=0 po
rt='ISAKMP-GROUP-AUTH' rem_addr='192.168.60.34' authen_type=NONE service=LOGIN pr
iv=0 initial_task_id='0'
lw6d: ISAKMP (0:2): Input = IKE_MSG_FROM_PEER, IKE_CFG_REQUEST
Old State = IKE_P1_COMPLETE New State = IKE_CONFIG_AUTHOR_AAA_AWAIT
```

```
1w6d: ISAKMP-GROUP-AUTH AAA/AUTHOR/CRYPTO AAA(1059453615):
  Port='ISAKMP-GROUP-AUTH' list='groupauthor' service=NET
1w6d: AAA/AUTHOR/CRYPTO AAA: ISAKMP-GROUP-AUTH(1059453615)
  user='vpngroup'
1w6d: ISAKMP-GROUP-AUTH AAA/AUTHOR/CRYPTO AAA(1059453615):
  send AV service=ike
1w6d: ISAKMP-GROUP-AUTH AAA/AUTHOR/CRYPTO AAA(1059453615):
  send AV protocol=ipsec
1w6d: ISAKMP-GROUP-AUTH AAA/AUTHOR/CRYPTO AAA(1059453615):
  found list "groupauthor"
1w6d: ISAKMP-GROUP-AUTH AAA/AUTHOR/CRYPTO AAA(1059453615):
  Method=LOCAL
1w6d: AAA/AUTHOR (1059453615): Post authorization status = PASS_ADD
1w6d: ISAKMP: got callback 1
AAA/AUTHOR/IKE: Processing AV service=ike
AAA/AUTHOR/IKE: Processing AV protocol=ipsec
AAA/AUTHOR/IKE: Processing AV tunnel-password=cisco123
AAA/AUTHOR/IKE: Processing AV default-domain*cisco.com
AAA/AUTHOR/IKE: Processing AV addr-pool*ippool
AAA/AUTHOR/IKE: Processing AV key-exchange=ike
AAA/AUTHOR/IKE: Processing AV timeout*0
AAA/AUTHOR/IKE: Processing AV idletime*0
AAA/AUTHOR/IKE: Processing AV inacl*102
AAA/AUTHOR/IKE: Processing AV dns-servers*10.1.1.10 0.0.0.0
AAA/AUTHOR/IKE: Processing AV wins-servers*10.1.1.20 0.0.0.0
1w6d: ISAKMP (0:2): attributes sent in message:
1w6d: Address: 0.2.0.0
1w6d: ISAKMP (0:2): allocating address 10.1.1.114
1w6d: ISAKMP: Sending private address: 10.1.1.114
1w6d: ISAKMP: Unknown Attr: IP4_NETMASK (0x2)
1w6d: ISAKMP: Sending IP4_DNS server address: 10.1.1.10
1w6d: ISAKMP: Sending IP4_NBNS server address: 10.1.1.20
1w6d: ISAKMP: Sending ADDRESS_EXPIRY seconds left to use the address: 86396
1w6d: ISAKMP: Sending APPLICATION_VERSION string:
  Cisco Internetwork Operating System Software IOS (tm) C1700 Software
  (C1710-K9O3SY-M), Version 12.2(8)T1, RELEASE SOFTWARE (fc2)
  TAC Support: http://www.cisco.com/tac
  Copyright (c) 1986-2002 by cisco Systems, Inc.
  Compiled Sat 30-Mar-02 13:30 by ccai
1w6d: ISAKMP: Unknown Attr: UNKNOWN (0x7000)
1w6d: ISAKMP: Unknown Attr: UNKNOWN (0x7001)
1w6d: ISAKMP: Sending DEFAULT_DOMAIN default domain name: cisco.com
1w6d: ISAKMP: Sending split include name 102 network 10.38.0.0
  mask 255.255.0.0 protocol 0, src port 0, dst port 0

1w6d: ISAKMP: Unknown Attr: UNKNOWN (0x7007)
1w6d: ISAKMP: Unknown Attr: UNKNOWN (0x7008)
1w6d: ISAKMP: Unknown Attr: UNKNOWN (0x7005)
1w6d: CryptoEngine0: generate hmac context for conn id 2
1w6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
1w6d: ISAKMP (0:2): responding to peer config from 192.168.60.34. ID = 398811763
1w6d: CryptoEngine0: CRYPTO_ISA_IKE_ENCRYPT(hw)(ipsec)
1w6d: ISAKMP (0:2): sending packet to 192.168.60.34 (R) CONF_ADDR
1w6d: ISAKMP (0:2): deleting node 398811763 error FALSE reason ""
1w6d: ISAKMP (0:2): Input = IKE_MSG_FROM_AAA, IKE_AAA_GROUP_ATTR
Old State = IKE_CONFIG_AUTHOR_AAA_AWAIT New State = IKE_P1_COMPLETE

1w6d: AAA/MEMORY: free_user (0x812F79FC) user='vpngroup'
  ruser='NULL' port='ISAKMP-GROUP-AUTH' rem_addr='192.168.60.34'
  authen_type=NONE service=LOGIN priv=0
1w6d: ISAKMP (0:2): received packet from 192.168.60.34 (R) QM_IDLE
1w6d: CryptoEngine0: CRYPTO_ISA_IKE_DECRYPT(hw)(ipsec)
1w6d: CryptoEngine0: generate hmac context for conn id 2
1w6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
```

lw6d: ISAKMP (0:2): processing HASH payload. message ID = 1369459046
lw6d: ISAKMP (0:2): processing SA payload. message ID = 1369459046
lw6d: ISAKMP (0:2): Checking IPsec proposal 1
lw6d: ISAKMP: transform 1, ESP_3DES
lw6d: ISAKMP: attributes in transform:
lw6d: ISAKMP: authenticator is HMAC-MD5
lw6d: ISAKMP: encaps is 1
lw6d: ISAKMP: SA life type in seconds
lw6d: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
lw6d: validate proposal 0
lw6d: IPSEC(validate_proposal): transform proposal
 (prot 3, trans 3, hmac_alg 1) not supported
lw6d: ISAKMP (0:2): atts not acceptable. Next payload is 0
lw6d: ISAKMP (0:2): skipping next ANDED proposal (1)
lw6d: ISAKMP (0:2): Checking IPsec proposal 2
lw6d: ISAKMP: transform 1, ESP_3DES
lw6d: ISAKMP: attributes in transform:
lw6d: ISAKMP: authenticator is HMAC-SHA
lw6d: ISAKMP: encaps is 1
lw6d: ISAKMP: SA life type in seconds
lw6d: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
lw6d: validate proposal 0
lw6d: ISAKMP (0:2): atts are acceptable.
lw6d: ISAKMP (0:2): Checking IPsec proposal 2
lw6d: ISAKMP (0:2): transform 1, IPPCP LZS
lw6d: ISAKMP: attributes in transform:
lw6d: ISAKMP: encaps is 1
lw6d: ISAKMP: SA life type in seconds
lw6d: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
lw6d: IPSEC(validate_proposal): transform proposal
 (prot 4, trans 3, hmac_alg 0) not supported
lw6d: ISAKMP (0:2): atts not acceptable. Next payload is 0
lw6d: ISAKMP (0:2): Checking IPsec proposal 3
lw6d: ISAKMP: transform 1, ESP_3DES
lw6d: ISAKMP: attributes in transform:
lw6d: ISAKMP: authenticator is HMAC-MD5
lw6d: ISAKMP: encaps is 1
lw6d: ISAKMP: SA life type in seconds
lw6d: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
lw6d: validate proposal 0
lw6d: IPSEC(validate_proposal): transform proposal
 (prot 3, trans 3, hmac_alg 1) not supported
lw6d: ISAKMP (0:2): atts not acceptable. Next payload is 0
lw6d: ISAKMP (0:2): Checking IPsec proposal 4
lw6d: ISAKMP: transform 1, ESP_3DES
lw6d: ISAKMP: attributes in transform:
lw6d: ISAKMP: authenticator is HMAC-SHA
lw6d: ISAKMP: encaps is 1
lw6d: ISAKMP: SA life type in seconds
lw6d: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
lw6d: validate proposal 0
lw6d: ISAKMP (0:2): atts are acceptable.
lw6d: IPSEC(validate_proposal_request): proposal part #1,
 (key eng. msg.) INBOUND local= 172.18.124.158,
 remote= 192.168.60.34, local_proxy= 172.18.124.158/255.255.255.255/0/0
 (type=1), remote_proxy= 10.1.1.114/255.255.255.255/0/0 (type=1),
 protocol= ESP, transform= esp-3des esp-sha-hmac , lifedur= 0s and 0kb,
 spi= 0x0(0), conn_id= 0, keysize= 0, flags= 0x4
lw6d: validate proposal request 0
lw6d: ISAKMP (0:2): processing NONCE payload. message ID = 1369459046
lw6d: ISAKMP (0:2): processing ID payload. message ID = 1369459046
lw6d: ISAKMP (0:2): processing ID payload. message ID = 1369459046
lw6d: ISAKMP (0:2): asking for 1 spis from ipsec
lw6d: ISAKMP (0:2): Node 1369459046, Input = IKE_MSG_FROM_PEER, IKE_QM_EXCH

```

Old State = IKE_QM_READY New State = IKE_QM_SPI_STARVE

lw6d: IPSEC(key_engine): got a queue event...
lw6d: IPSEC(spi_response): getting spi 1640315492 for SA
    from 172.18.124.158 to 192.168.60.34 for prot 3
lw6d: ISAKMP: received ke message (2/1)
lw6d: CryptoEngine0: generate hmac context for conn id 2
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_ENCRYPT(hw)(ipsec)
lw6d: ISAKMP (0:2): sending packet to 192.168.60.34 (R) QM_IDLE
lw6d: ISAKMP (0:2): Node 1369459046,
    Input = IKE_MSG_FROM_IPSEC, IKE_SPI_REPLY
Old State = IKE_QM_SPI_STARVE New State = IKE_QM_R_QM2

lw6d: ISAKMP (0:2): received packet from 192.168.60.34 (R) QM_IDLE
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_DECRYPT(hw)(ipsec)
lw6d: CryptoEngine0: generate hmac context for conn id 2
lw6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw)(ipsec)
lw6d: ipsec allocate flow 0
lw6d: ipsec allocate flow 0
lw6d: CryptoEngine0: CRYPTO_ISA_IPSEC_KEY_CREATE(hw)(ipsec)
lw6d: CryptoEngine0: CRYPTO_ISA_IPSEC_KEY_CREATE(hw)(ipsec)
lw6d: ISAKMP (0:2): Creating IPsec SAs
lw6d: inbound SA from 192.168.60.34 to 172.18.124.158
    (proxy 10.1.1.114 to 172.18.124.158)
lw6d: has spi 0x61C53A64 and conn_id 200 and flags 4
lw6d: lifetime of 2147483 seconds
lw6d: outbound SA from 172.18.124.158 to 192.168.60.34
    (proxy 172.18.124.158 to 10.1.1.114 )
lw6d: has spi -1885622177 and conn_id 201 and flags C
lw6d: lifetime of 2147483 seconds
lw6d: ISAKMP (0:2): deleting node 1369459046 error FALSE
    reason "quick mode done (await())"
lw6d: ISAKMP (0:2): Node 1369459046,
    Input = IKE_MSG_FROM_PEER, IKE_QM_EXCH
Old State = IKE_QM_R_QM2 New State = IKE_QM_PHASE2_COMPLETE

lw6d: IPSEC(key_engine): got a queue event...
lw6d: IPSEC(initialize_sas): ,
    (key eng. msg.) INBOUND local= 172.18.124.158,
    remote= 192.168.60.34, local_proxy= 172.18.124.158/0.0.0.0/0/0
    (type=1), remote_proxy= 10.1.1.114/0.0.0.0/0/0 (type=1),
    protocol= ESP, transform= esp-3des esp-sha-hmac ,
    lifedur= 2147483s and 0kb, spi= 0x61C53A64(1640315492),
    conn_id= 200, keysize= 0, flags= 0x4
lw6d: IPSEC(initialize_sas): , (key eng. msg.)
    OUTBOUND local= 172.18.124.158, remote= 192.168.60.34,
    local_proxy= 172.18.124.158/0.0.0.0/0/0 (type=1),
    remote_proxy= 10.1.1.114/0.0.0.0/0/0 (type=1),
    protocol= ESP, transform= esp-3des esp-sha-hmac ,
    lifedur= 2147483s and 0kb, spi= 0x8F9BB05F(2409345119),
    conn_id= 201, keysize= 0, flags= 0xC
lw6d: IPSEC(create_sa): sa created, (sa) sa_dest= 172.18.124.158,
sa_prot= 50, sa_spi= 0x61C53A64(1640315492),
sa_trans= esp-3des esp-sha-hmac , sa_conn_id= 200
lw6d: IPSEC(create_sa): sa created, (sa) sa_dest= 192.168.60.34,
sa_prot= 50, sa_spi= 0x8F9BB05F(2409345119),
sa_trans= esp-3des esp-sha-hmac , sa_conn_id= 201

```

客戶端日誌

要檢視日誌，請在VPN客戶端上啟動日誌檢視器，並將所有已配置類的過濾器設定為High。

此處顯示日誌輸出示例。

```
1 11:56:06.609 06/05/02 Sev=Info/6 DIALER/0x63300002
Initiating connection.

2 11:56:06.609 06/05/02 Sev=Info/4 CM/0x63100002
Begin connection process

3 11:56:06.609 06/05/02 Sev=Info/4 CM/0x63100004
Establish secure connection using Ethernet

4 11:56:06.609 06/05/02 Sev=Info/4 CM/0x63100026
Attempt connection with server "172.18.124.158"

5 11:56:06.609 06/05/02 Sev=Info/6 IKE/0x6300003B
Attempting to establish a connection with 172.18.124.158.

6 11:56:06.669 06/05/02 Sev=Info/4 IKE/0x63000013
SENDING >>> ISAKMP OAK AG (SA, KE, NON, ID, VID, VID, VID) to 172.18.124.158

7 11:56:07.250 06/05/02 Sev=Info/5 IKE/0x6300002F
Received ISAKMP packet: peer = 172.18.124.158

8 11:56:07.250 06/05/02 Sev=Info/4 IKE/0x63000014
RECEIVING <<< ISAKMP OAK AG (SA, VID, VID, VID, VID, KE, ID, NON, HASH) from
172.18.124.158

9 11:56:07.250 06/05/02 Sev=Info/5 IKE/0x63000059
Vendor ID payload = 12F5F28C457168A9702D9FE274CC0100

10 11:56:07.250 06/05/02 Sev=Info/5 IKE/0x63000001
Peer is a Cisco-Unity compliant peer

11 11:56:07.250 06/05/02 Sev=Info/5 IKE/0x63000059
Vendor ID payload = AFCAD71368A1F1C96B8696FC77570100

12 11:56:07.250 06/05/02 Sev=Info/5 IKE/0x63000001
Peer supports DPD

13 11:56:07.250 06/05/02 Sev=Info/5 IKE/0x63000059
Vendor ID payload = 0A0E5F2A15C0B2F2A41B00897B816B3C

14 11:56:07.250 06/05/02 Sev=Info/5 IKE/0x63000059
Vendor ID payload = 09002689DFD6B712

15 11:56:07.280 06/05/02 Sev=Info/4 IKE/0x63000013
SENDING >>> ISAKMP OAK AG *(HASH, NOTIFY:STATUS_INITIAL_CONTACT) to
172.18.124.158

16 11:56:07.320 06/05/02 Sev=Info/5 IKE/0x6300002F
Received ISAKMP packet: peer = 172.18.124.158

17 11:56:07.320 06/05/02 Sev=Info/4 IKE/0x63000014
RECEIVING <<< ISAKMP OAK INFO *(HASH, NOTIFY:STATUS_RESP_LIFETIME) from
172.18.124.158

18 11:56:07.320 06/05/02 Sev=Info/5 IKE/0x63000044
RESPONDER-LIFETIME notify has value of 86400 seconds

19 11:56:07.320 06/05/02 Sev=Info/5 IKE/0x63000046
This SA has already been alive for 1 seconds, setting expiry to 86399 seconds
from now
```

20 11:56:07.561 06/05/02 Sev=Info/5 IKE/0x6300002F
Received ISAKMP packet: peer = 172.18.124.158

21 11:56:07.561 06/05/02 Sev=Info/4 IKE/0x63000014
RECEIVING <<< ISAKMP OAK TRANS *(HASH, ATTR) from 172.18.124.158

22 11:56:07.561 06/05/02 Sev=Info/4 CM/0x63100015
Launch xAuth application

23 11:56:07.571 06/05/02 Sev=Info/4 IPSEC/0x63700014
Deleted all keys

24 11:56:09.734 06/05/02 Sev=Info/4 CM/0x63100017
xAuth application returned

25 11:56:09.734 06/05/02 Sev=Info/4 IKE/0x63000013
SENDING >>> ISAKMP OAK TRANS *(HASH, ATTR) to 172.18.124.158

26 11:56:10.174 06/05/02 Sev=Info/5 IKE/0x6300002F
Received ISAKMP packet: peer = 172.18.124.158

27 11:56:10.184 06/05/02 Sev=Info/4 IKE/0x63000014
RECEIVING <<< ISAKMP OAK TRANS *(HASH, ATTR) from 172.18.124.158

28 11:56:10.184 06/05/02 Sev=Info/4 CM/0x6310000E
Established Phase 1 SA. 1 Phase 1 SA in the system

29 11:56:10.184 06/05/02 Sev=Info/4 IKE/0x63000013
SENDING >>> ISAKMP OAK TRANS *(HASH, ATTR) to 172.18.124.158

30 11:56:10.204 06/05/02 Sev=Info/5 IKE/0x6300005D
Client sending a firewall request to concentrator

31 11:56:10.204 06/05/02 Sev=Info/5 IKE/0x6300005C
Firewall Policy: Product=Cisco Integrated Client, Capability= (Centralized Policy Push).

32 11:56:10.204 06/05/02 Sev=Info/4 IKE/0x63000013
SENDING >>> ISAKMP OAK TRANS *(HASH, ATTR) to 172.18.124.158

33 11:56:10.265 06/05/02 Sev=Info/5 IKE/0x6300002F
Received ISAKMP packet: peer = 172.18.124.158

34 11:56:10.265 06/05/02 Sev=Info/4 IKE/0x63000014
RECEIVING <<< ISAKMP OAK TRANS *(HASH, ATTR) from 172.18.124.158

35 11:56:10.265 06/05/02 Sev=Info/5 IKE/0x63000010
MODE_CFG_REPLY: Attribute = INTERNAL_IPV4_ADDRESS: , value = 10.1.1.114

36 11:56:10.265 06/05/02 Sev=Info/5 IKE/0x63000010
MODE_CFG_REPLY: Attribute = INTERNAL_IPV4_DNS(1): , value = 10.1.1.10

37 11:56:10.265 06/05/02 Sev=Info/5 IKE/0x63000010
MODE_CFG_REPLY: Attribute = INTERNAL_IPV4_NBNS(1) (a.k.a. WINS) : , value = 10.1.1.20

38 11:56:10.265 06/05/02 Sev=Info/5 IKE/0xA3000017
MODE_CFG_REPLY: The received (INTERNAL_ADDRESS_EXPIRY) attribute and value (86396) is not supported

39 11:56:10.265 06/05/02 Sev=Info/5 IKE/0x6300000E
MODE_CFG_REPLY: Attribute = APPLICATION_VERSION,
value = Cisco Internetwork Operating System Software

IOS (tm) C1700 Software (C1710-K9O3SY-M), Version 12.2(8)T1,
RELEASE SOFTWARE (fc2)
TAC Support: <http://www.cisco.com/tac>
Copyright (c) 1986-2002 by cisco Systems, Inc.
Compiled Sat 30-Mar-02 13:30 by ccai

40 11:56:10.265 06/05/02 Sev=Info/5 IKE/0x6300000E
MODE_CFG_REPLY: Attribute = MODECFG_UNITY_DEFDOMAIN: , value = cisco.com

41 11:56:10.265 06/05/02 Sev=Info/5 IKE/0x6300000D
MODE_CFG_REPLY: Attribute = MODECFG_UNITY_SPLIT_INCLUDE (# of split_nets),
value = 0x00000001

42 11:56:10.265 06/05/02 Sev=Info/5 IKE/0x6300000F
SPLIT_NET #1
subnet = 10.38.0.0
mask = 255.255.0.0
protocol = 0
src port = 0
dest port=0

43 11:56:10.265 06/05/02 Sev=Info/4 CM/0x63100019
Mode Config data received

44 11:56:10.275 06/05/02 Sev=Info/5 IKE/0x63000055
Received a key request from Driver for IP address 172.18.124.158, GW IP =
172.18.124.158

45 11:56:10.275 06/05/02 Sev=Info/4 IKE/0x63000013
SENDING >>> ISAKMP OAK QM *(HASH, SA, NON, ID, ID) to 172.18.124.158

46 11:56:10.575 06/05/02 Sev=Info/4 IPSEC/0x63700014
Deleted all keys

47 11:56:10.605 06/05/02 Sev=Info/5 IKE/0x6300002F
Received ISAKMP packet: peer = 172.18.124.158

48 11:56:10.605 06/05/02 Sev=Info/4 IKE/0x63000014
RECEIVING <<< ISAKMP OAK QM *(HASH, SA, NON, ID, ID,
NOTIFY:STATUS_RESP_LIFETIME) from 172.18.124.158

49 11:56:10.605 06/05/02 Sev=Info/5 IKE/0x63000044
RESPONDER-LIFETIME notify has value of 3600 seconds

50 11:56:10.605 06/05/02 Sev=Info/5 IKE/0x63000045
RESPONDER-LIFETIME notify has value of 4608000 kb

51 11:56:10.605 06/05/02 Sev=Info/4 IKE/0x63000013
SENDING >>> ISAKMP OAK QM *(HASH) to 172.18.124.158

52 11:56:10.605 06/05/02 Sev=Info/5 IKE/0x63000058
Loading IPsec SA (Message ID = 0x51A04966 OUTBOUND SPI = 0x61C53A64 INBOUND
SPI = 0x8F9BB05F)

53 11:56:10.605 06/05/02 Sev=Info/5 IKE/0x63000025
Loaded OUTBOUND ESP SPI: 0x61C53A64

54 11:56:10.605 06/05/02 Sev=Info/5 IKE/0x63000026
Loaded INBOUND ESP SPI: 0x8F9BB05F

55 11:56:10.605 06/05/02 Sev=Info/4 CM/0x6310001A
One secure connection established

56 11:56:10.625 06/05/02 Sev=Info/6 DIALER/0x63300003

Connection established.

57 11:56:10.735 06/05/02 Sev=Info/6 DIALER/0x63300008
MAPI32 Information - Outlook not default mail client

58 11:56:11.677 06/05/02 Sev=Info/4 IPSEC/0x63700010
Created a new key structure

59 11:56:11.677 06/05/02 Sev=Info/4 IPSEC/0x6370000F
Added key with SPI=0x643ac561 into key list

60 11:56:11.677 06/05/02 Sev=Info/4 IPSEC/0x63700010
Created a new key structure

61 11:56:11.677 06/05/02 Sev=Info/4 IPSEC/0x6370000F
Added key with SPI=0x5fb09b8f into key list

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