

Configuration d'IPSec entre un routeur Cisco IOS et un client VPN Cisco 4.x pour Windows à l'aide de RADIUS

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Introduction

Ce document explique comment configurer une connexion entre un routeur Cisco IOS et le client VPN Cisco 4.x utilisant RADIUS pour l'autorisation des groupes et l'authentification des utilisateurs. Les versions logicielles 12.2(8)T et ultérieures de Cisco IOSMD prennent en charge les connexions depuis le Client VPN Cisco 3.x. Les clients VPN 3.x et 4.x utilisent la stratégie du groupe 2 de Diffie Hellman (DH). La commande « isakmp policy # group 2 » active les clients VPN à connecter.

Note: La comptabilité d'IPSec VPN est maintenant disponible. Référez-vous à [IPSec VPN expliquant](#) plus d'informations et de configurations d'échantillon.

Conditions préalables

Conditions requises

Assurez-vous que vous répondez à ces exigences avant d'essayer cette configuration :

- Un groupe d'adresses à assigner pour IPSec

- Un groupe a appelé "3000clients" avec une clé pré-partagée de "cisco123"
- Groupez l'autorisation et l'authentification de l'utilisateur sur un serveur de RAYON

Note: La comptabilité de RAYON n'est pas prise en charge à ce moment.

Composants utilisés

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

- Un routeur 2611 qui exécute le Logiciel Cisco IOS version 12.2(8)T.
- Cisco Secure ACS pour Windows (n'importe quel serveur de RAYON devrait travailler)
- Client VPN Cisco pour la version 4.8 de Windows (n'importe quel client vpn 4.x devrait travailler)

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

Ceci est sorti de la commande de **show version** sur le routeur :

```
vpn2611#show version
Cisco Internetwork Operating System Software
IOS (tm) C2600 Software (C2600-JK9O3S-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
```

Conventions

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

Théorie générale

Ce document affiche l'authentification et l'autorisation, telle qu'assigner Windows Internet Naming Service (WINS) et le service de nom de domaine (DN), par le serveur de RAYON. Si vous êtes intéressé à exécuter l'authentification par le serveur et l'autorisation de RAYON localement par le routeur, référez-vous à la [configuration d'IPSec entre un routeur Cisco IOS et un Client VPN Cisco 4.x pour Windows utilisant le RAYON pour l'authentification de l'utilisateur](#).

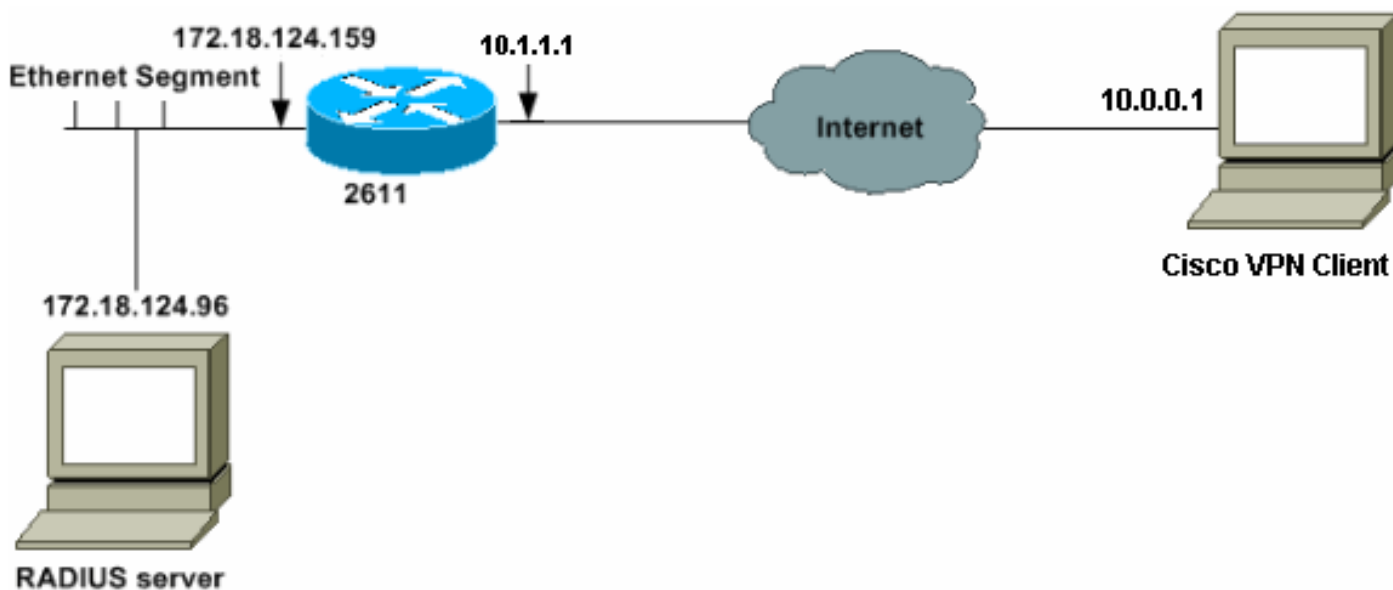
Configurez

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

Note: Utilisez l'outil [Command Lookup Tool](#) (clients [enregistrés](#) seulement) pour trouver plus d'informations sur les commandes utilisées dans ce document.

Diagramme du réseau

Ce document utilise la configuration réseau suivante :



Note: Les adresses IP dans ce réseau d'exemple ne sont pas routable en Internet global parce qu'elles sont des adresses IP privées dans un réseau des travaux pratiques.

Configurations

Routeur 2611

```
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#

```

[Configuration du serveur RADIUS](#)

[Configurez le serveur de RAYON pour des clients d'AAA \(le routeur\)](#)

Procédez comme suit :

1. Cliquez sur Add l'**entrée** pour ajouter le routeur à la base de données du serveur de RAYON.

AAA Client Hostname	AAA Client IP Address	Authenticate Using
340	172.18.124.151	RADIUS (Cisco Aironet)
Aironet-340-Lab	14.36.1.99	RADIUS (Cisco Aironet)
glenntest	172.18.124.120	RADIUS (Cisco IOS/PIX)
router	172.18.124.150	TACACS+ (Cisco IOS)

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

2. Spécifiez l'adresse IP du routeur "172.18.124.159" avec la clé secrète partagée "cisco123" et choisissez le **RAYON** dans l'authentifier utilisant la liste déroulante.

Add AAA Client

AAA Client Hostname:

AAA Client IP Address:

Key:

Authenticate Using:

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

Log Update/Watchdog Packets from this AAA Client

Log RADIUS Tunneling Packets from this AAA Client

[Submit] [Submit + Restart] [Cancel]

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

AAA Client Hostname

The AAA Client Hostname is the name assigned to the AAA client.

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AAA Client IP Address

[Configurez le serveur de RAYON pour l'authentification et l'autorisation de groupe](#)

Procédez comme suit :

1. Cliquez sur Add/éditez pour ajouter un utilisateur nommé **3000client** au serveur de RAYON.

User:

List users beginning with letter/number:

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

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

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

User Setup and External User Databases

Before Cisco Secure ACS can authenticate users with an external user database, you must:

- You must have the database up and running on the external server. For example, if you are using token card authentication, you must have the database up and running and properly configured.
- You must have configured the applicable parameters in the Cisco Secure ACS configuration.

2. Spécifiez le mot de passe cisco pour cet utilisateur. Ce mot de passe est un mot clé spécial pour le Cisco IOS, qui indique qu'un profil de groupe doit être mis en référence. Vous pouvez tracer l'utilisateur à un groupe Cisco Secure si vous préférez. Assurez-vous qu'**aucune affectation d'adresse IP** n'est

choisie.

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 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. Spécifiez les paramètres d'autorisation de groupe qui seront passés vers le bas par ce compte utilisateur de nouveau au client vpn. Veillez-vous pour avoir des Cisco-poids du commerce-paires activées avec ces attributs : ipsec : key-exchange=ike ipsec : key-exchange=preshared-key ipsec : addr-pool=ippool ipsec : inacl=108 (seulement requis si vous utilisez la Segmentation de tunnel sur le routeur) En outre, assurez-vous que vous faites activer l'IETF RADIUS Attributs de theseg : Attribut 6 : Service-Type=Outbound Attribut 64 : L'ESP de Tunnel-Type=IP Attribut 69 : Tunnel-Password=cisco123 (c'est votre mot de passe

de groupe sur le client vpn)Une fois que vous avez terminé, cliquez sur Submit.

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

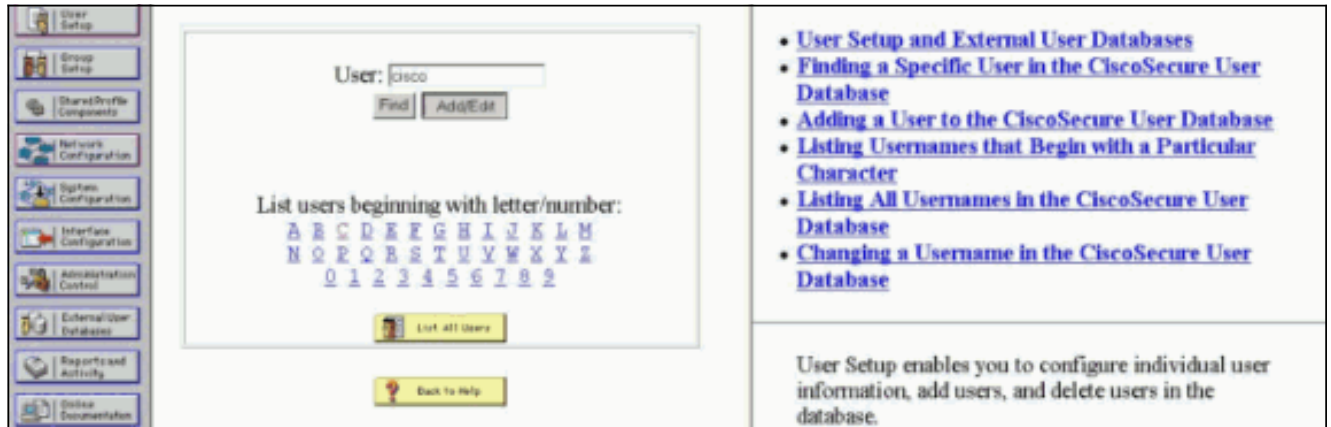
Submit Delete Cancel

Sous des attributs spécifiques de constructeur, vous pouvez également activer ces attributs facultatifs : ipsec : default-domain=ipsec : timeout=ipsec : idletime=ipsec : dns-servers=ipsec : wins-servers=

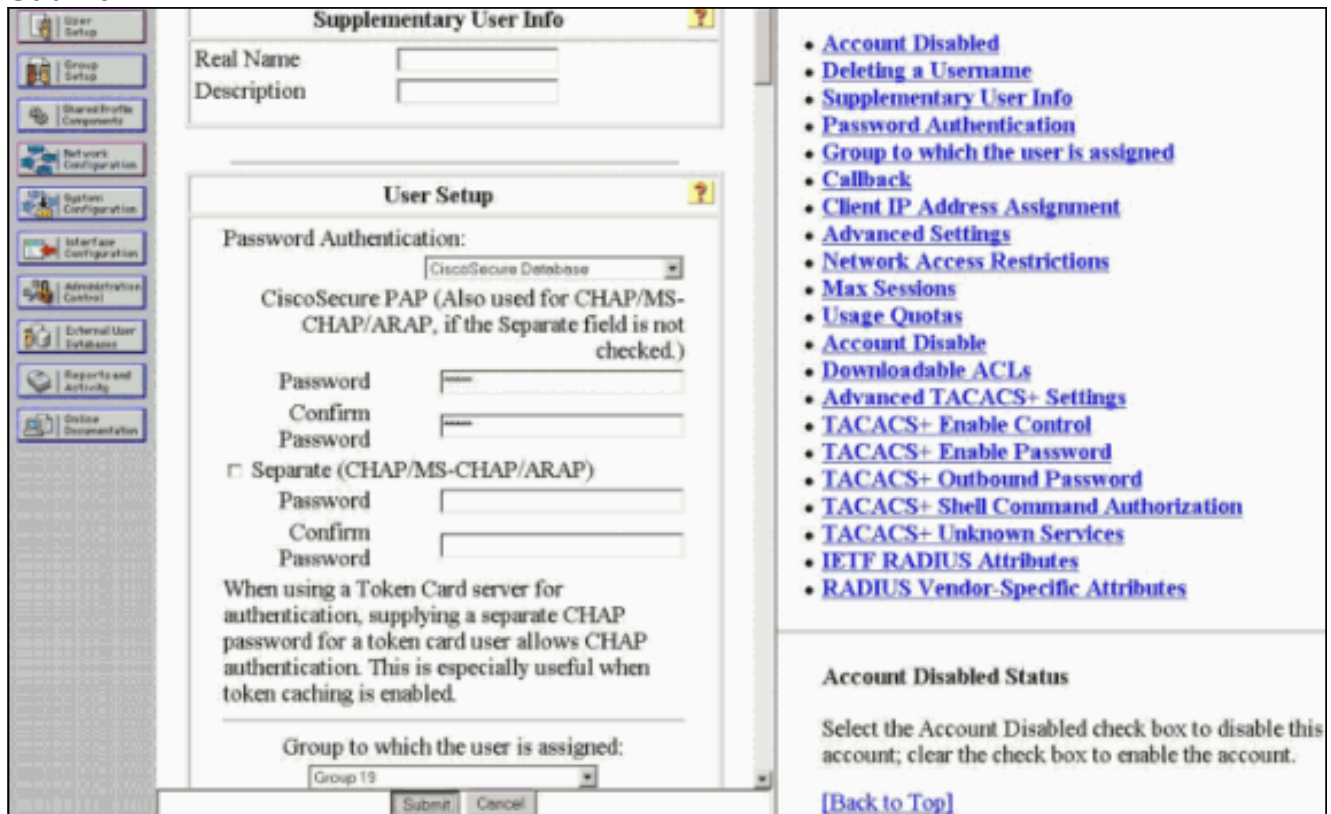
[Configurez le serveur de RAYON pour l'authentification de l'utilisateur](#)

Procédez comme suit :

1. Cliquez sur Add/éditez pour ajouter l'utilisateur VPN dans la base de données Cisco Secure. Dans cet exemple, le nom d'utilisateur est Cisco.



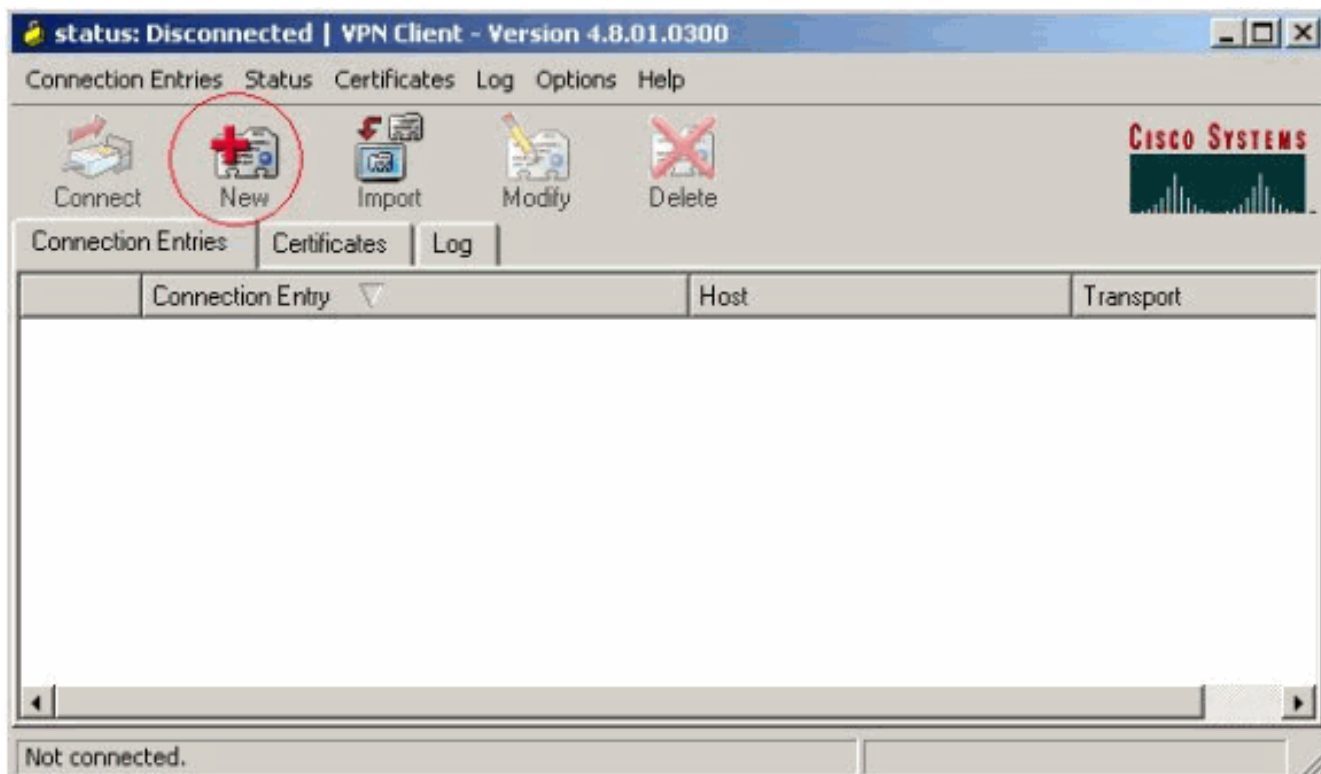
2. Sur la prochaine fenêtre, spécifiez le mot de passe pour l'utilisateur **Cisco**. Le mot de passe est également **Cisco**. Vous pouvez tracer le compte utilisateur à un groupe. Une fois que vous avez terminé, cliquez sur Submit.



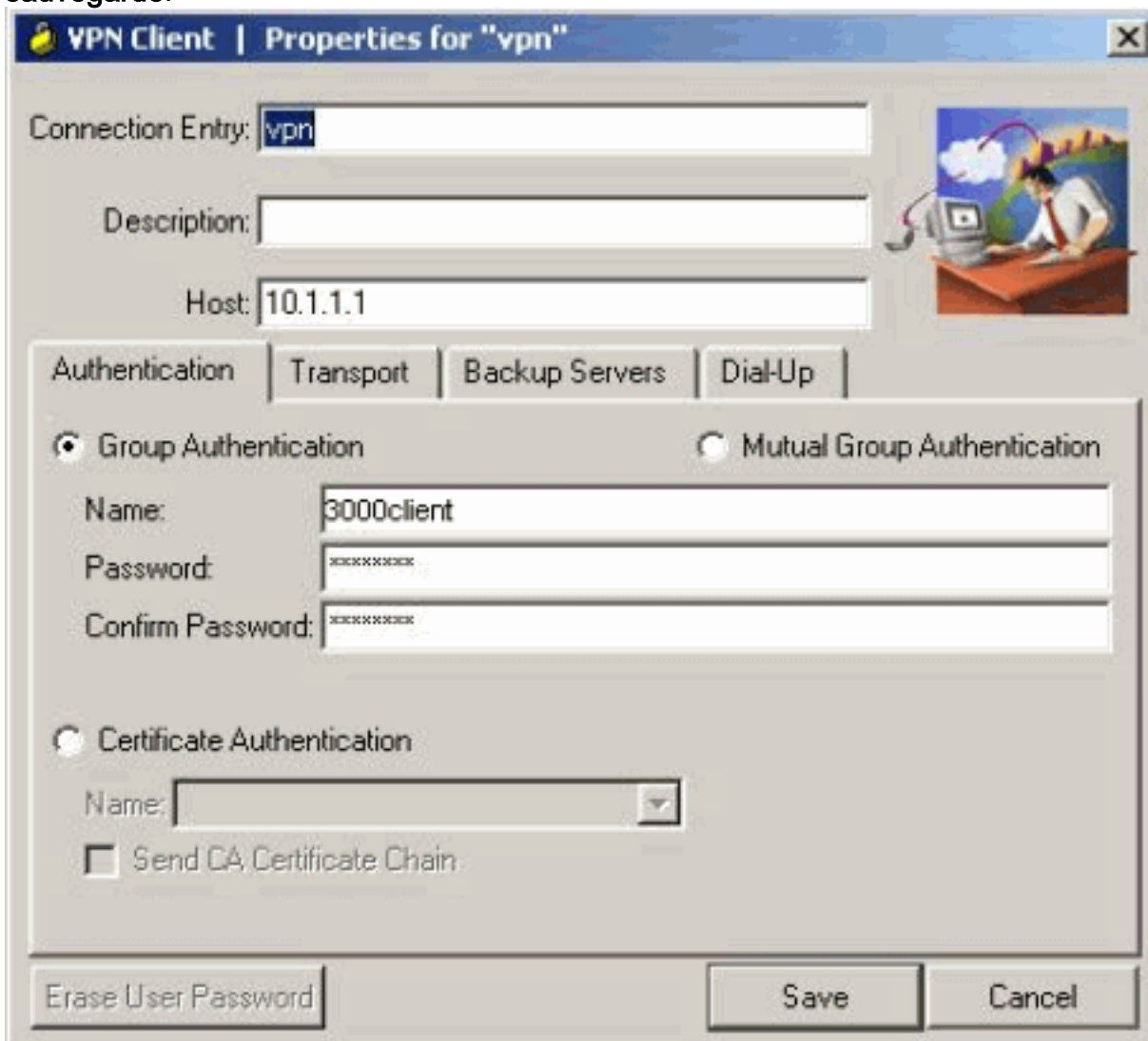
[Configuration VPN Client 4.8](#)

Terminez-vous ces étapes afin de configurer le client vpn 4.8 :

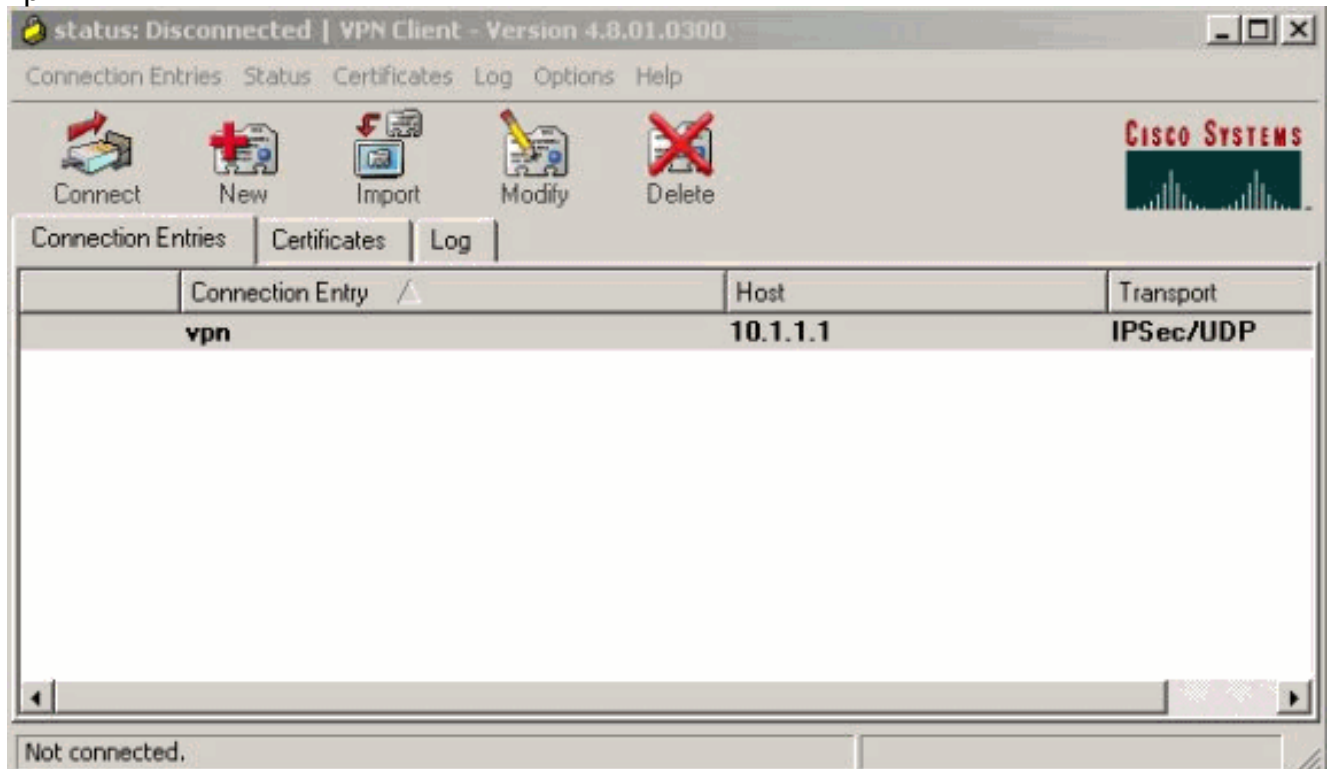
1. Choisissez le **début > les programmes > le client vpn de Cisco Systems > le client vpn**.
2. Cliquez sur **New** pour ouvrir la fenêtre Create New VPN Connection Entry.



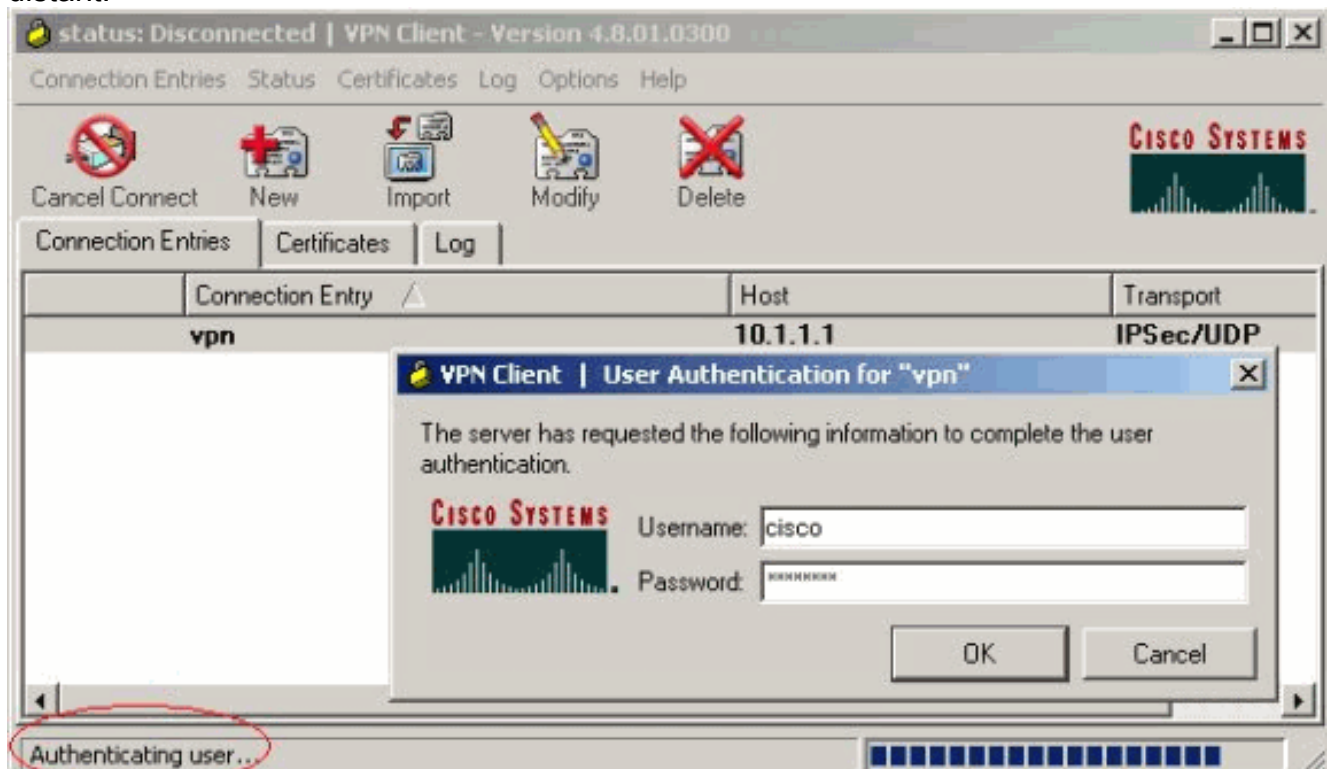
3. Entrez le nom de l'entrée de connexion avec une description. Écrivez l'adresse IP extérieure du routeur dans la case d'hôte. Puis, entrez le nom de groupe VPN et le mot de passe et cliquez sur la sauvegarde.



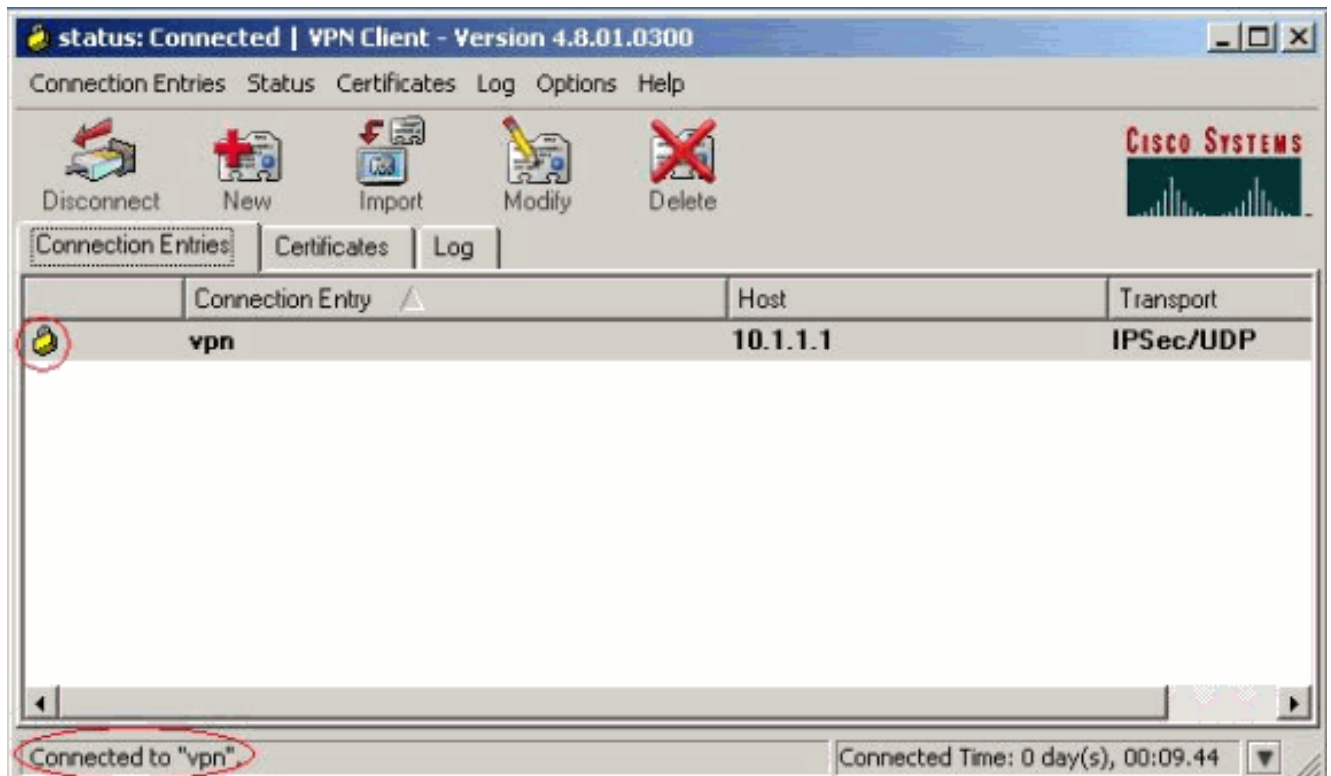
4. Cliquez sur en fonction la connexion que vous voulez au clic d'utiliser-et vous connectez de la fenêtre principale de client vpn.



5. Lorsque vous y êtes invité, saisissez le nom d'utilisateur et le mot de passe pour Xauth et cliquez sur **OK** pour vous connecter au réseau distant.



Le client vpn obtient lié au routeur au lieu d'exploitation principal.



Vérifiez

Référez-vous à cette section pour vous assurer du bon fonctionnement de votre configuration.

L'[Outil Interpréteur de sortie](#) (clients [enregistrés](#) uniquement) (OIT) prend en charge certaines commandes **show**. Utilisez l'OIT pour afficher une analyse de la sortie de la commande **show**.

```
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 pcp sas:

outbound esp sas:

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

outbound ah sas:

outbound pcp sas:

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

Dépannez

Utilisez cette section pour dépanner votre configuration.

Dépannage des commandes

L'[Outil Interpréteur de sortie](#) (clients [enregistrés](#) uniquement) (OIT) prend en charge certaines commandes **show**. Utilisez l'OIT pour afficher une analyse de la sortie de la commande **show**.

Note: Référez-vous aux [informations importantes sur les commandes de débogage](#) avant d'utiliser les commandes de **débogage**.

- **debug crypto ipsec** — Affiche des informations de débogage sur les connexions IPSec.
- **debug crypto isakmp** - Affiche les informations de débogage sur les connexions IPSec et le premier ensemble d'attributs refusés en raison d'incompatibilités sur les deux extrémités.
- **debug crypto engine** — Affiche des informations du moteur de chiffrement.
- **debug aaa authentication** — Affiche des informations sur l'authentification AAA/TACACS+.
- **raduis d'autorisation de debug aaa** — Affiche des informations sur l'autorisation AAA/TACACS+.
- **debug radius** — Affiche des informations sur la transmission de débogage entre le serveur de RAYON et le routeur.

Sortie de débogage

Cette section fournit mettent au point les informations du routeur que vous pouvez utiliser pour dépanner votre configuration.

Journaux du routeur

```
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:inacl=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_MSG_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_MSG_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_MSG_FROM_PEER, IKE_CFG_ACK
```

Old State = IKE_XAUTH_SET_SENT New State = IKE_P1_COMPLETE

1w0d: ISAKMP (0:2): Input = IKE_MSG_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_MSG_FROM_PEER, IKE_CFG_REQUEST
Old 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

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"ipsec:key-exchange=preshared-key"
lw0d: RADIUS: Vendor, Cisco [26] 30
lw0d: RADIUS: Cisco AVpair [1] 24 "ipsec:addr-pool=ippool"
lw0d: RADIUS: Vendor, Cisco [26] 23
lw0d: RADIUS: Cisco AVpair [1] 17 "ipsec:inacl=108"
lw0d: RADIUS: Tunnel-Type [64] 6 01:ESP [9]
lw0d: RADIUS: Tunnel-Password [69] 21 *
lw0d: RADIUS: saved authorization data for user 830CAF28 at 83143E64
lw0d: RADIUS: cisco AVPair "ipsec:key-exchange=ike"
lw0d: RADIUS: cisco AVPair "ipsec:key-exchange=preshared-key"
lw0d: RADIUS: cisco AVPair "ipsec:addr-pool=ippool"
lw0d: RADIUS: cisco AVPair "ipsec:inacl=108"
lw0d: RADIUS: Tunnel-Type, [01] 00 00 09
lw0d: RADIUS: TAS(1) created and enqueued.
lw0d: RADIUS: Tunnel-Password decrypted, [01] cisco123
lw0d: RADIUS: TAS(1) takes precedence over tagged attributes,
tunnel_type=esp
lw0d: RADIUS: free TAS(1)
lw0d: AAA/AUTHOR (3098118746): Post authorization status = PASS_REPL
lw0d: 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 inacl=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
lw0d: ISAKMP (0:2): attributes sent in message:
lw0d: Address: 0.2.0.0
lw0d: ISAKMP (0:2): allocating address 10.16.20.2
lw0d: ISAKMP: Sending private address: 10.16.20.2
lw0d: ISAKMP: Unknown Attr: IP4_NETMASK (0x2)
lw0d: ISAKMP: Sending ADDRESS_EXPIRY seconds left to use the address:
86395
lw0d: 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
lw0d: ISAKMP: Unknown Attr: UNKNOWN (0x7000)
lw0d: ISAKMP: Unknown Attr: UNKNOWN (0x7001)
lw0d: ISAKMP: Sending split include name 108 network 14.38.0.0 mask
255.255.0.0 protocol 0, src port 0, dst port 0

lw0d: ISAKMP: Unknown Attr: UNKNOWN (0x7007)
lw0d: ISAKMP: Unknown Attr: UNKNOWN (0x7008)
lw0d: ISAKMP: Unknown Attr: UNKNOWN (0x7005)
lw0d: ISAKMP (0:2): responding to peer config from 10.0.0.1. ID =
-1911189201
lw0d: ISAKMP (0:2): sending packet to 10.0.0.1 (R) CONF_ADDR
lw0d: ISAKMP (0:2): deleting node -1911189201 error FALSE reason ""
lw0d: ISAKMP (0:2): Input = IKE_MSG_FROM_AAA, IKE_AAA_GROUP_ATTR
Old State = IKE_CONFIG_AUTHOR_AAA_AWAIT New State = IKE_P1_COMPLETE

lw0d: 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
lw0d: ISAKMP (0:2): received packet from 10.0.0.1 (R) QM_IDLE
lw0d: ISAKMP (0:2): processing HASH payload. message ID = 132557281
lw0d: ISAKMP (0:2): processing SA payload. message ID = 132557281
lw0d: ISAKMP (0:2): Checking IPsec proposal 1
lw0d: 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_MSG_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

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1w0d: ISAKMP (0:2): Node 132557281, Input = IKE_MSG_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_MSG_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_MSG_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_MSG_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)
lw0d: has spi 0x2359F2EE and conn_id 2002 and flags 4
lw0d: lifetime of 2147483 seconds
lw0d: outbound SA from 10.1.1.1 to 10.0.0.1 (proxy
14.38.0.0 to 10.16.20.2 )
lw0d: has spi 1123818858 and conn_id 2003 and flags C
lw0d: lifetime of 2147483 seconds
lw0d: ISAKMP (0:2): deleting node -1273332908 erro
vpn2611#un ar FALSE reason "quick mode done (await())"
lw0d: 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

lw0d: IPSEC(key_engine): got a queue event...
lw0d: 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
lw0d: 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
lw0d: 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
lw0d: 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

```

[Logs de client](#)

Lancez le LogViewer sur le client vpn afin de visualiser les logs. Assurez-vous que le filtre est placé à la haute pour toutes les classes configurées. C'est un log témoin sorti :

```

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#

lw0d: ISAKMP (0:0): received packet from 10.0.0.1 (N) NEW SA
lw0d: ISAKMP: local port 500, remote port 500
lw0d: ISAKMP (0:2): (Re)Setting client xauth list userauthen and state
lw0d: ISAKMP: Locking CONFIG struct 0x830BF118 from
crypto_ikmp_config_initialize_sa, count 2
lw0d: ISAKMP (0:2): processing SA payload. message ID = 0
lw0d: 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:inacl=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_MSG_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_MSG_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_MSG_FROM_PEER, IKE_CFG_ACK
Old State = IKE_XAUTH_SET_SENT New State = IKE_P1_COMPLETE
```

1w0d: ISAKMP (0:2): Input = IKE_MSG_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_MSG_FROM_PEER, IKE_CFG_REQUEST

Old 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"

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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:inacl=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"
1w0d: RADIUS: cisco AVPair "ipsec:addr-pool=ippool"
1w0d: RADIUS: cisco AVPair "ipsec:inacl=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 inacl=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_MSG_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_MSG_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_MSG_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= 0x4

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

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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_MSG_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_MSG_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)
```

```
lw0d: has spi 0x2359F2EE and conn_id 2002 and flags 4
lw0d: lifetime of 2147483 seconds
lw0d: outbound SA from 10.1.1.1 to 10.0.0.1 (proxy
14.38.0.0 to 10.16.20.2 )
lw0d: has spi 1123818858 and conn_id 2003 and flags C
lw0d: lifetime of 2147483 seconds
lw0d: ISAKMP (0:2): deleting node -1273332908 erro
vpn2611#un ar FALSE reason "quick mode done (await())"
lw0d: 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

lw0d: IPSEC(key_engine): got a queue event...
lw0d: 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
lw0d: 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
lw0d: 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
lw0d: 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
```

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- [Support produit de Client VPN Cisco](#)
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