

Exemple de configuration du tunnel IPsec entre routeur IOS et client VPN Cisco 4.x pour Windows avec authentification utilisateur TACACS+

Contenu

[Introduction](#)

[Conditions préalables](#)

[Conditions requises](#)

[Components Used](#)

[Conventions](#)

[Configuration](#)

[Diagramme du réseau](#)

[Configurations](#)

[Vérification](#)

[Dépannage](#)

[Dépannage des commandes](#)

[Journaux du routeur](#)

[Journaux client](#)

[Informations connexes](#)

Introduction

Ce document décrit comment configurer une connexion IPsec entre un routeur et le client Cisco Virtual Private Network (VPN) 4.x avec TACACS+ (Terminal Access Controller Access Control System Plus) pour l'authentification des utilisateurs. Le logiciel Cisco IOS[®] version 12.2(8)T et ultérieures prend en charge les connexions du client VPN Cisco 4.x. Le client VPN 4.x utilise la stratégie de groupe 2 Diffie-Hellman (D-H). La commande **isakmp policy # group 2** permet aux clients 4.x de se connecter.

Ce document montre l'authentification sur le serveur TACACS+ avec autorisation, telles que les affectations WINS (Windows Internet Naming Service) et DNS (Domain Naming Service), effectuées localement par le routeur.

Référez-vous à [Configuration de Cisco VPN Client 3.x pour Windows à IOS à l'aide de l'authentification étendue locale](#) afin d'en savoir plus sur le scénario où l'authentification de l'utilisateur se produit localement dans le routeur Cisco IOS.

Référez-vous à [Configuration d'IPSec entre un routeur Cisco IOS et un client VPN Cisco 4.x pour Windows utilisant RADIUS pour l'authentification utilisateur](#) afin d'en savoir plus sur le scénario où l'authentification utilisateur se produit en externe avec le protocole RADIUS.

Conditions préalables

Conditions requises

Assurez-vous de répondre à ces exigences avant d'essayer cette configuration :

- Pool d'adresses à attribuer pour IPsec
- Groupe nommé « vpngrp » avec le mot de passe « cisco123 »
- Authentification utilisateur sur un serveur TACACS+

Components Used

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

- Client VPN Cisco pour Windows version 4.0.2D (tout client VPN 3.x ou ultérieur doit fonctionner.)
- Cisco Secure pour Windows version 3.0 (tout serveur TACACS+ doit fonctionner)
- Routeur Cisco IOS 1710 version 12.2(8)T1 chargé avec le jeu de fonctions IPsecLe résultat de la commande **show version** sur le routeur est affiché ici.

```
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
```

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

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

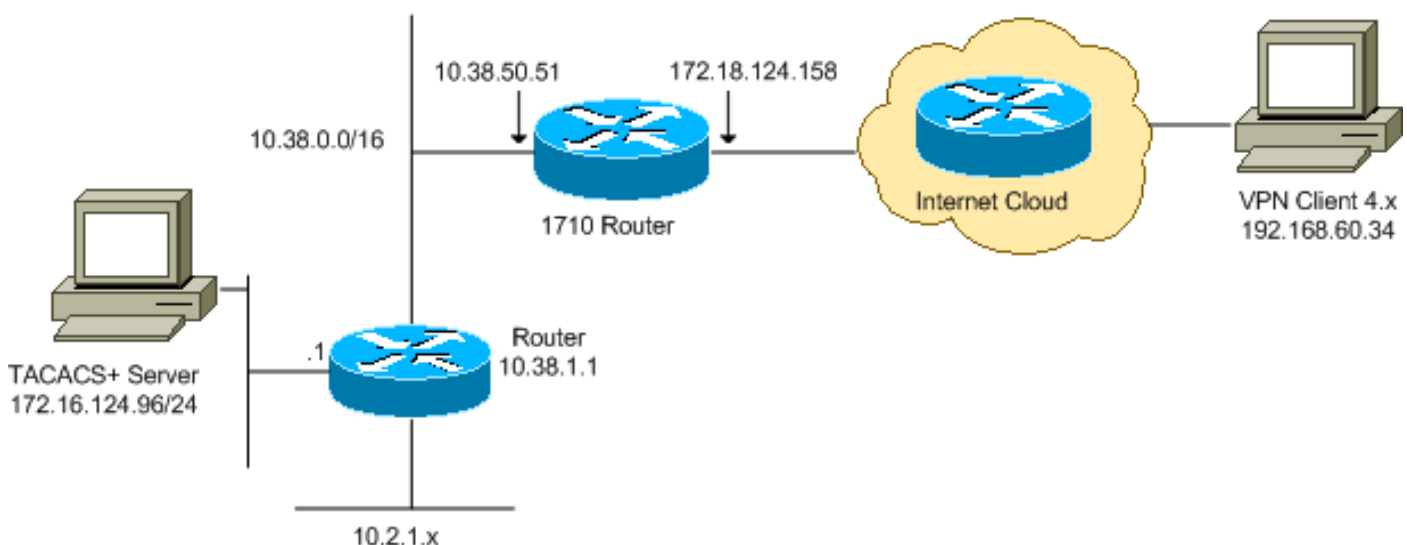
Configuration

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

Remarque : utilisez l'[outil de recherche de commandes](#) (clients [enregistrés](#) uniquement) afin de trouver plus d'informations sur les commandes utilisées dans ce document.

Diagramme du réseau

Ce document utilise la configuration réseau suivante :



Remarque : les schémas d'adressage IP utilisés dans cette configuration ne sont pas routables légalement sur Internet. Ce sont des adresses [RFC 1918 qui ont été utilisées dans un environnement de laboratoire](#).

Configurations

Ce document utilise les configurations suivantes :

- [Routeur Cisco 1710](#)
- [Serveur TACACS+](#)
- [Client VPN 4.x](#)
- [transmission tunnel partagée](#)

Routeur Cisco 1710

Routeur Cisco 1710

```
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

```

Serveur TACACS+

Pour configurer le serveur TACACS+, procédez comme suit :

1. Cliquez sur **Ajouter une entrée** afin d'ajouter une entrée pour le routeur dans la base de données du serveur TACACS+.

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. Sur la page Add AAA Client, entrez les informations du routeur comme indiqué dans cette image

Dans le champ AAA Client Hostname, saisissez un nom pour le routeur. Dans le champ AAA Client IP Address, saisissez **10.38.50.51**. Dans le champ Key (Clé), saisissez **cisco123** comme clé secrète partagée. Dans la liste déroulante Authentifier à l'aide, sélectionnez **TACACS+ (Cisco IOS)**, puis cliquez sur **Envoyer**.

3. Dans le champ User, saisissez le nom d'utilisateur de l'utilisateur VPN dans la base de données Cisco Secure, puis cliquez sur **Add/Edit**. Dans cet exemple, le nom d'utilisateur est **cisco**.

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

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

4. À la page suivante, saisissez et confirmez le mot de passe de l'utilisateur *cisco*. Dans cet exemple, le mot de passe est également *cisco*.

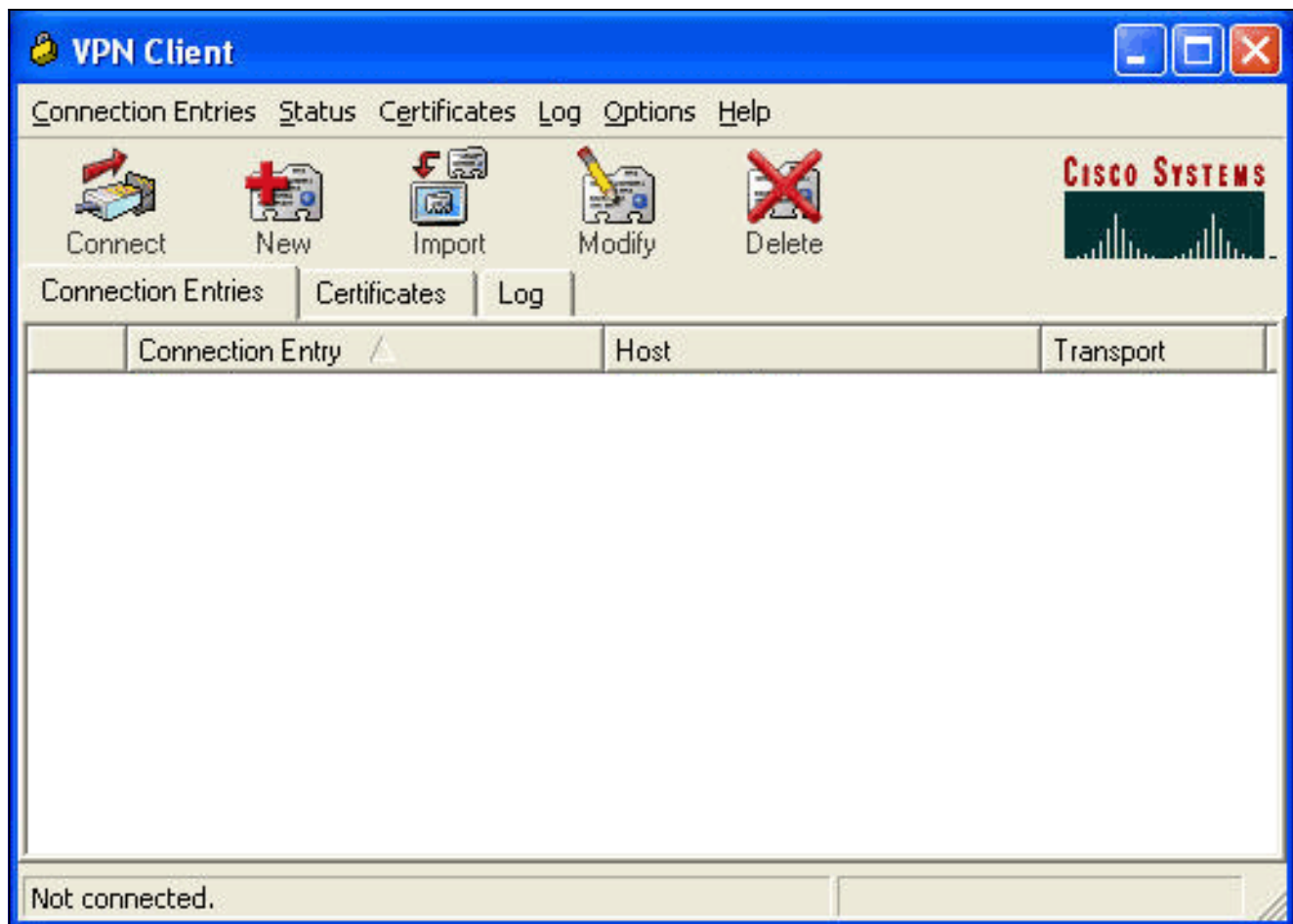
The screenshot shows the Cisco configuration interface for a user. The left sidebar contains navigation options: User Setup, Group Setup, Shared Profile Components, Network Configuration, System Configuration, Interface Configuration, Administrative Control, External User Database, Reports and Activity, and Device Documentation. The main content area is divided into two sections: 'Supplementary User Info' and 'User Setup'. The 'Supplementary User Info' section has fields for 'Real Name' and 'Description'. The 'User Setup' section is titled 'Password Authentication:' and includes a dropdown menu for 'CiscoSecure Database'. Below this, there is a note: 'CiscoSecure PAP (Also used for CHAP/MS-CHAP/ARAP, if the Separate field is not checked.)'. There are two sets of 'Password' and 'Confirm Password' fields. The first set is for the main user, and the second set is for a 'Separate (CHAP/MS-CHAP/ARAP)' user, which is currently unchecked. Below the password fields, there is a note: '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.' At the bottom of the 'User Setup' section, there is a dropdown menu for 'Group to which the user is assigned:' with 'Group 19' selected. 'Submit' and 'Cancel' buttons are at the bottom. On the right side, there is a list of links: 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, and RADIUS Vendor-Specific Attributes. Below the links, there is a section titled 'Account Disabled Status' with a note: 'Select the Account Disabled check box to disable this account; clear the check box to enable the account.' and a '[Back to Top]' link.

5. Si vous souhaitez mapper le compte d'utilisateur à un groupe, complétez cette étape maintenant. Lorsque vous avez terminé, cliquez sur **Soumettre**.

[Client VPN 4.x](#)

Afin de configurer le client VPN 4.x, procédez comme suit :

1. Lancez le client VPN, puis cliquez sur **Nouveau** afin de créer une nouvelle connexion.



La boîte de dialogue VPN Client Create New VPN Connection Entry

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

s'affiche.

2. Dans la boîte de dialogue Créer une entrée de connexion VPN, saisissez les informations de connexion comme illustré dans cette image

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:

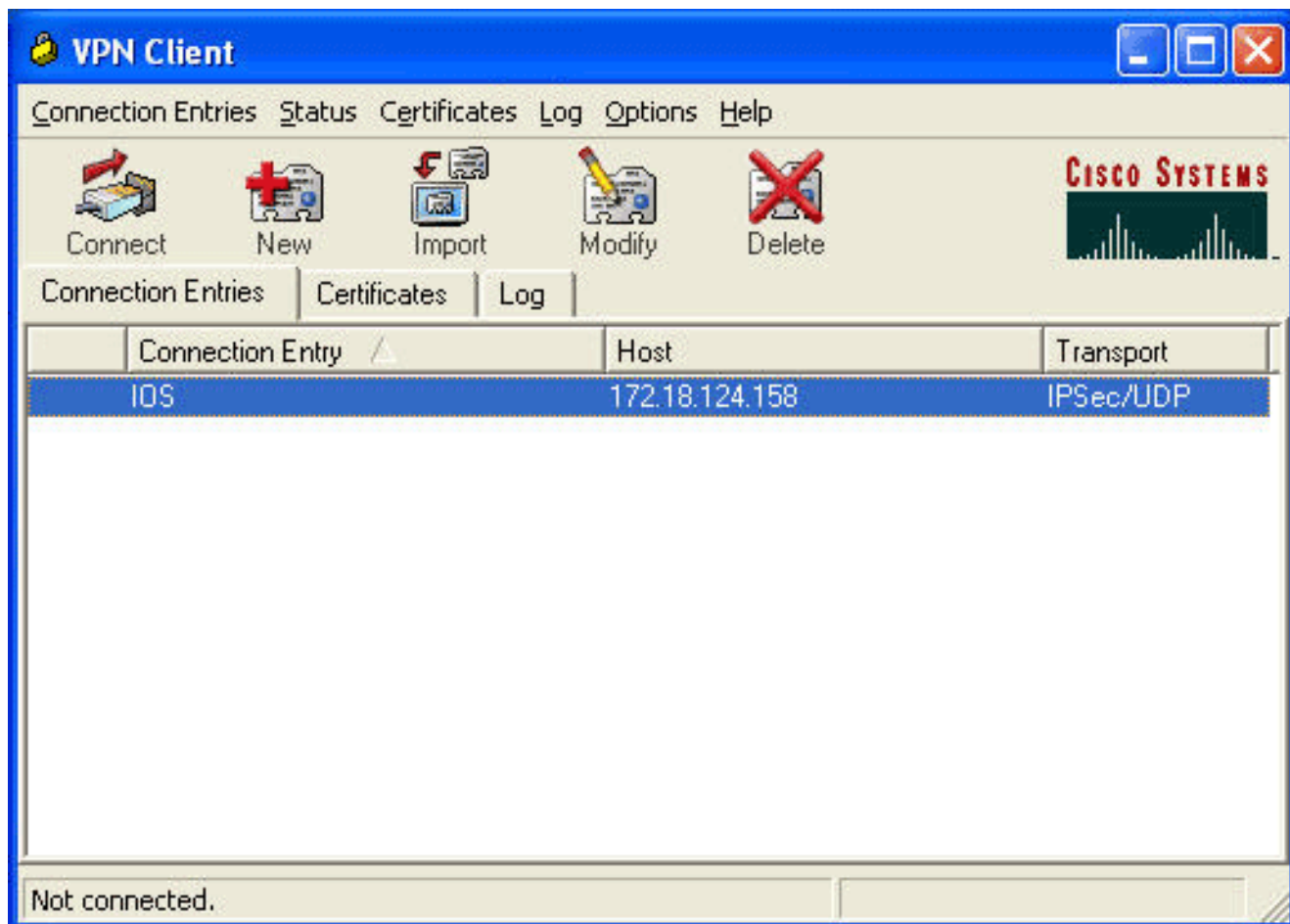
Certificate Authentication

Name:

Send CA Certificate Chain

Erase User Password Save Cancel

- Dans le champ Connection Entry, saisissez un nom pour la connexion. Dans les champs Description et Host, saisissez une description et l'adresse IP de l'hôte pour l'entrée de connexion. Sous l'onglet Authentification, cliquez sur la case d'option **Authentification de groupe**, puis entrez le nom et le mot de passe de l'utilisateur. Cliquez sur **Enregistrer** afin d'enregistrer la connexion.
3. Dans la fenêtre VPN Client, sélectionnez l'entrée de connexion que vous avez créée, puis cliquez sur **Connect** afin de vous connecter au routeur.



4. À mesure que le protocole IPsec négocie, vous êtes invité à saisir un nom d'utilisateur et un mot de passe. Entrez un nom d'utilisateur et un mot de passe. La fenêtre affiche les messages suivants : «Négociation des profils de sécurité. » «Votre lien est désormais sécurisé. »

transmission tunnel partagée

Afin d'activer la transmission tunnel partagée pour les connexions VPN, assurez-vous de configurer une liste de contrôle d'accès (ACL) sur le routeur. Dans cet exemple, la commande **access-list 102** est associée au groupe à des fins de fractionnement en canaux, et le tunnel est formé aux réseaux 10.38.X.X /16 et 10.2.x.x. Le trafic circule non chiffré vers les périphériques qui ne figurent pas dans la liste de contrôle d'accès 102 (par exemple, 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
```

Appliquez la liste de contrôle d'accès aux propriétés du groupe.

```
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
```

Vérification

Cette section présente des informations que vous pouvez utiliser pour vous assurer que votre configuration fonctionne correctement.

[Certaines commandes show sont prises en charge par l'outil Output Interpreter Tool \(clients enregistrés seulement\)](#). Cet outil vous permet d'afficher une analyse de la sortie **show** command.

```
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 pcp 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 pcp 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

[Dépannage](#)

Cette section fournit des informations que vous pouvez utiliser pour dépanner votre configuration.

[Dépannage des commandes](#)

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

Remarque : Consulter les [renseignements importants 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 affiche le premier jeu d'attributs qui sont refusés en raison d'incompatibilités aux deux extrémités.
- **debug crypto engine** — Affiche des informations du moteur de chiffrement.
- **debug aaa authentication** - Affiche des informations sur l'authentification AAA/TACACS+.
- **debug aaa Authorization** : affiche des informations sur l'autorisation AAA/TACACS+.
- **debug tacacs** : affiche des informations qui vous permettent de dépanner la communication entre le serveur TACACS+ et le routeur.

Journaux du routeur

```
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 userauthn 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_MESG_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'
1w6d: ISAKMP-ID-AUTH AAA/AUTHOR/CRYPTO AAA(1472763894): send AV service=ike
1w6d: ISAKMP-ID-AUTH AAA/AUTHOR/CRYPTO AAA(1472763894): send AV protocol=ipsec
1w6d: ISAKMP-ID-AUTH AAA/AUTHOR/CRYPTO AAA(1472763894): found list "groupauthor"
1w6d: ISAKMP-ID-AUTH AAA/AUTHOR/CRYPTO AAA(1472763894): Method=LOCAL
1w6d: AAA/AUTHOR (1472763894): 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: CryptoEngine0: create ISAKMP SKEYID for conn id 2
1w6d: CryptoEngine0: CRYPTO_ISA_SA_CREATE(hw) (ipsec)
1w6d: ISAKMP (0:2): SKEYID state generated
1w6d: ISAKMP (0:2): SA is doing pre-shared key authentication plux
    XAUTH using id type ID_IPV4_ADDR
1w6d: ISAKMP (2): ID payload
next-payload : 10
type : 1
protocol : 17
port : 500
length : 8
1w6d: ISAKMP (2): Total payload length: 12
1w6d: CryptoEngine0: generate hmac context for conn id 2
1w6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw) (ipsec)
1w6d: ISAKMP (0:2): sending packet to 192.168.60.34 (R) AG_INIT_EXCH
1w6d: ISAKMP (0:2): Input = IKE_MESG_FROM_AAA, PRESHARED_KEY_REPLY
Old State = IKE_R_AM_AAA_AWAIT New State = IKE_R_AM2

1w6d: 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
1w6d: ISAKMP (0:2): received packet from 192.168.60.34 (R) AG_INIT_EXCH
1w6d: CryptoEngine0: CRYPTO_ISA_IKE_DECRYPT(hw) (ipsec)
1w6d: ISAKMP (0:2): processing HASH payload. message ID = 0
1w6d: CryptoEngine0: generate hmac context for conn id 2
1w6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw) (ipsec)
1w6d: ISAKMP (0:2): processing NOTIFY INITIAL_CONTACT protocol 1
    spi 0, message ID = 0, sa = 81673884
1w6d: ISAKMP (0:2): Process initial contact, bring down
    existing phase 1 and 2 SA's
1w6d: ISAKMP (0:2): returning IP addr to the address pool: 10.1.1.113
1w6d: ISAKMP (0:2): returning address 10.1.1.113 to pool
1w6d: ISAKMP (0:2): peer does not do paranoid keepalives.

1w6d: ISAKMP (0:2): SA has been authenticated with 192.168.60.34
1w6d: CryptoEngine0: clear dh number for conn id 1
```

1w6d: CryptoEngine0: CRYPTO_ISA_DH_DELETE(hw) (ipsec)
1w6d: IPSEC(key_engine): got a queue event...
1w6d: IPSEC(key_engine_delete_sas): rec'd delete notify from ISAKMP
1w6d: IPSEC(key_engine_delete_sas): delete all SAs shared with 192.168.60.34
1w6d: CryptoEngine0: generate hmac context for conn id 2
1w6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw) (ipsec)
1w6d: CryptoEngine0: CRYPTO_ISA_IKE_ENCRYPT(hw) (ipsec)
1w6d: ISAKMP (0:2): sending packet to 192.168.60.34 (R) QM_IDLE
1w6d: ISAKMP (0:2): purging node 1324880791
1w6d: ISAKMP: Sending phase 1 responder lifetime 86400

1w6d: ISAKMP (0:2): Input = IKE_MSG_FROM_PEER, IKE_AM_EXCH
Old State = IKE_R_AM2 New State = IKE_P1_COMPLETE

1w6d: ISAKMP (0:2): Need XAUTH
1w6d: AAA: parse name=ISAKMP idb type=-1 tty=-1
1w6d: AAA/MEMORY: create_user (0x812F79FC) user='NULL'
ruser='NULL' ds0=0 port='
ISAKMP' rem_addr='192.168.60.34' authn_type=ASCII service=LOGIN
priv=0 initial_task_id='0'
1w6d: ISAKMP (0:2): Input = IKE_MSG_INTERNAL, IKE_PHASE1_COMPLETE
Old State = IKE_P1_COMPLETE New State = IKE_XAUTH_AAA_START_LOGIN_AWAIT

1w6d: AAA/AUTHEN/START (2017610393): port='ISAKMP' list='userauthen'
action=LOGIN service=LOGIN
1w6d: AAA/AUTHEN/START (2017610393): found list userauthen
1w6d: AAA/AUTHEN/START (2017610393): Method=tacacs+ (tacacs+)
1w6d: TAC+: send AUTHEN/START packet ver=192 id=2017610393
1w6d: TAC+: Using default tacacs server-group "tacacs+" list.
1w6d: TAC+: Opening TCP/IP to 172.16.124.96/49 timeout=5
1w6d: TAC+: Opened TCP/IP handle 0x8183D638 to 172.16.124.96/49
1w6d: TAC+: 172.16.124.96 (2017610393) AUTHEN/START/LOGIN/ASCII queued
1w6d: TAC+: (2017610393) AUTHEN/START/LOGIN/ASCII processed
1w6d: TAC+: ver=192 id=2017610393 received AUTHEN status = GETUSER
1w6d: AAA/AUTHEN(2017610393): Status=GETUSER
1w6d: ISAKMP: got callback 1
1w6d: ISAKMP/xauth: request attribute XAUTH_TYPE_V2
1w6d: ISAKMP/xauth: request attribute XAUTH_MESSAGE_V2
1w6d: ISAKMP/xauth: request attribute XAUTH_USER_NAME_V2
1w6d: ISAKMP/xauth: request attribute XAUTH_USER_PASSWORD_V2
1w6d: CryptoEngine0: generate hmac context for conn id 2
1w6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw) (ipsec)
1w6d: ISAKMP (0:2): initiating peer config to 192.168.60.34. ID = 1641488057
1w6d: CryptoEngine0: CRYPTO_ISA_IKE_ENCRYPT(hw) (ipsec)
1w6d: ISAKMP (0:2): sending packet to 192.168.60.34 (R) CONF_XAUTH
1w6d: 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

1w6d: ISAKMP (0:2): received packet from 192.168.60.34 (R) CONF_XAUTH
1w6d: CryptoEngine0: CRYPTO_ISA_IKE_DECRYPT(hw) (ipsec)
1w6d: ISAKMP (0:2): processing transaction payload from 192.168.60.34.
message ID = 1641488057
1w6d: CryptoEngine0: generate hmac context for conn id 2
1w6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw) (ipsec)
1w6d: ISAKMP: Config payload REPLY
1w6d: ISAKMP/xauth: reply attribute XAUTH_TYPE_V2 unexpected
1w6d: ISAKMP/xauth: reply attribute XAUTH_USER_NAME_V2
1w6d: ISAKMP/xauth: reply attribute XAUTH_USER_PASSWORD_V2
1w6d: ISAKMP (0:2): deleting node 1641488057 error FALSE
reason "done with xauth request/reply exchange"
1w6d: 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

1w6d: AAA/AUTHEN/CONT (2017610393): continue_login (user='(undef)')

1w6d: AAA/AUTHEN(2017610393): Status=GETUSER

1w6d: AAA/AUTHEN(2017610393): Method=tacacs+ (tacacs+)

1w6d: TAC+: send AUTHEN/CONT packet id=2017610393

1w6d: TAC+: 172.16.124.96 (2017610393) AUTHEN/CONT queued

1w6d: TAC+: (2017610393) AUTHEN/CONT processed

1w6d: TAC+: ver=192 id=2017610393 received AUTHEN status = GETPASS

1w6d: AAA/AUTHEN(2017610393): Status=GETPASS

1w6d: AAA/AUTHEN/CONT (2017610393): continue_login (user='cisco')

1w6d: AAA/AUTHEN(2017610393): Status=GETPASS

1w6d: AAA/AUTHEN(2017610393): Method=tacacs+ (tacacs+)

1w6d: TAC+: send AUTHEN/CONT packet id=2017610393

1w6d: TAC+: 172.16.124.96 (2017610393) AUTHEN/CONT queued

1w6d: TAC+: (2017610393) AUTHEN/CONT processed

1w6d: TAC+: ver=192 id=2017610393 received AUTHEN status = PASS

1w6d: AAA/AUTHEN(2017610393): Status=PASS

1w6d: ISAKMP: got callback 1

1w6d: TAC+: Closing TCP/IP 0x8183D638 connection to 172.16.124.96/49

1w6d: CryptoEngine0: generate hmac context for conn id 2

1w6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw) (ipsec)

1w6d: ISAKMP (0:2): initiating peer config to 192.168.60.34. ID = 1736579999

1w6d: CryptoEngine0: CRYPTO_ISA_IKE_ENCRYPT(hw) (ipsec)

1w6d: ISAKMP (0:2): sending packet to 192.168.60.34 (R) CONF_XAUTH

1w6d: 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

1w6d: AAA/MEMORY: free_user (0x812F79FC) user='cisco' ruser='NULL'

port='ISAKMP' rem_addr='192.168.60.34' authen_type=ASCII

service=LOGIN priv=0

1w6d: ISAKMP (0:2): received packet from 192.168.60.34 (R) CONF_XAUTH

1w6d: CryptoEngine0: CRYPTO_ISA_IKE_DECRYPT(hw) (ipsec)

1w6d: ISAKMP (0:2): processing transaction payload from 192.168.60.34.

message ID = 1736579999

1w6d: CryptoEngine0: generate hmac context for conn id 2

1w6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw) (ipsec)

1w6d: ISAKMP: Config payload ACK

1w6d: ISAKMP (0:2): XAUTH ACK Processed

1w6d: ISAKMP (0:2): deleting node 1736579999 error FALSE

reason "done with transaction"

1w6d: ISAKMP (0:2): Input = IKE_MSG_FROM_PEER, IKE_CFG_ACK

Old State = IKE_XAUTH_SET_SENT New State = IKE_P1_COMPLETE

1w6d: ISAKMP (0:2): Input = IKE_MSG_INTERNAL, IKE_PHASE1_COMPLETE

Old State = IKE_P1_COMPLETE New State = IKE_P1_COMPLETE

1w6d: ISAKMP (0:2): received packet from 192.168.60.34 (R) QM_IDLE

1w6d: CryptoEngine0: CRYPTO_ISA_IKE_DECRYPT(hw) (ipsec)

1w6d: ISAKMP (0:2): processing transaction payload from 192.168.60.34.

message ID = 398811763

1w6d: CryptoEngine0: generate hmac context for conn id 2

1w6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw) (ipsec)

1w6d: ISAKMP: Config payload REQUEST

1w6d: ISAKMP (0:2): checking request:

1w6d: ISAKMP: IP4_ADDRESS

1w6d: ISAKMP: IP4_NETMASK

1w6d: ISAKMP: IP4_DNS

1w6d: ISAKMP: IP4_NBNS

1w6d: ISAKMP: ADDRESS_EXPIRY

1w6d: ISAKMP: APPLICATION_VERSION

1w6d: ISAKMP: UNKNOWN Unknown Attr: 0x7000

1w6d: ISAKMP: UNKNOWN Unknown Attr: 0x7001

1w6d: ISAKMP: DEFAULT_DOMAIN

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1w6d: ISAKMP: SPLIT_INCLUDE
1w6d: ISAKMP: UNKNOWN Unknown Attr: 0x7007
1w6d: ISAKMP: UNKNOWN Unknown Attr: 0x7008
1w6d: ISAKMP: UNKNOWN Unknown Attr: 0x7005
1w6d: AAA: parse name=ISAKMP-GROUP-AUTH idb type=-1 tty=-1
1w6d: 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'
1w6d: ISAKMP (0:2): Input = IKE_MESG_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-K903SY-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
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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)
1w6d: ISAKMP (0:2): processing HASH payload. message ID = 1369459046
1w6d: ISAKMP (0:2): processing SA payload. message ID = 1369459046
1w6d: ISAKMP (0:2): Checking IPsec proposal 1
1w6d: ISAKMP: transform 1, ESP_3DES
1w6d: ISAKMP: attributes in transform:
1w6d: ISAKMP: authenticator is HMAC-MD5
1w6d: ISAKMP: encaps is 1
1w6d: ISAKMP: SA life type in seconds
1w6d: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
1w6d: validate proposal 0
1w6d: IPSEC(validate_proposal): transform proposal
(prot 3, trans 3, hmac_alg 1) not supported
1w6d: ISAKMP (0:2): atts not acceptable. Next payload is 0
1w6d: ISAKMP (0:2): skipping next ANDED proposal (1)
1w6d: ISAKMP (0:2): Checking IPsec proposal 2
1w6d: ISAKMP: transform 1, ESP_3DES
1w6d: ISAKMP: attributes in transform:
1w6d: ISAKMP: authenticator is HMAC-SHA
1w6d: ISAKMP: encaps is 1
1w6d: ISAKMP: SA life type in seconds
1w6d: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
1w6d: validate proposal 0
1w6d: ISAKMP (0:2): atts are acceptable.
1w6d: ISAKMP (0:2): Checking IPsec proposal 2
1w6d: ISAKMP (0:2): transform 1, IPPCP LZS
1w6d: ISAKMP: attributes in transform:
1w6d: ISAKMP: encaps is 1
1w6d: ISAKMP: SA life type in seconds
1w6d: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
1w6d: IPSEC(validate_proposal): transform proposal
(prot 4, trans 3, hmac_alg 0) not supported
1w6d: ISAKMP (0:2): atts not acceptable. Next payload is 0
1w6d: ISAKMP (0:2): Checking IPsec proposal 3
1w6d: ISAKMP: transform 1, ESP_3DES
1w6d: ISAKMP: attributes in transform:
1w6d: ISAKMP: authenticator is HMAC-MD5
1w6d: ISAKMP: encaps is 1
1w6d: ISAKMP: SA life type in seconds
1w6d: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
1w6d: validate proposal 0
1w6d: IPSEC(validate_proposal): transform proposal
(prot 3, trans 3, hmac_alg 1) not supported
1w6d: ISAKMP (0:2): atts not acceptable. Next payload is 0
1w6d: ISAKMP (0:2): Checking IPsec proposal 4
1w6d: ISAKMP: transform 1, ESP_3DES
1w6d: ISAKMP: attributes in transform:
1w6d: ISAKMP: authenticator is HMAC-SHA
1w6d: ISAKMP: encaps is 1
1w6d: ISAKMP: SA life type in seconds
1w6d: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B
1w6d: validate proposal 0
1w6d: ISAKMP (0:2): atts are acceptable.
1w6d: 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
1w6d: validate proposal request 0
1w6d: ISAKMP (0:2): processing NONCE payload. message ID = 1369459046
1w6d: ISAKMP (0:2): processing ID payload. message ID = 1369459046
1w6d: ISAKMP (0:2): processing ID payload. message ID = 1369459046
1w6d: ISAKMP (0:2): asking for 1 spis from ipsec
1w6d: ISAKMP (0:2): Node 1369459046, Input = IKE_MESG_FROM_PEER, IKE_QM_EXCH
Old State = IKE_QM_READY New State = IKE_QM_SPI_STARVE

1w6d: IPSEC(key_engine): got a queue event...
1w6d: IPSEC(spi_response): getting spi 1640315492 for SA
    from 172.18.124.158 to 192.168.60.34 for prot 3
1w6d: ISAKMP: received ke message (2/1)
1w6d: CryptoEngine0: generate hmac context for conn id 2
1w6d: CryptoEngine0: CRYPTO_ISA_IKE_HMAC(hw) (ipsec)
1w6d: CryptoEngine0: CRYPTO_ISA_IKE_ENCRYPT(hw) (ipsec)
1w6d: ISAKMP (0:2): sending packet to 192.168.60.34 (R) QM_IDLE
1w6d: ISAKMP (0:2): Node 1369459046,
    Input = IKE_MESG_FROM_IPSEC, IKE_SPI_REPLY
Old State = IKE_QM_SPI_STARVE New State = IKE_QM_R_QM2

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)
1w6d: ipsec allocate flow 0
1w6d: ipsec allocate flow 0
1w6d: CryptoEngine0: CRYPTO_ISA_IPSEC_KEY_CREATE(hw) (ipsec)
1w6d: CryptoEngine0: CRYPTO_ISA_IPSEC_KEY_CREATE(hw) (ipsec)
1w6d: ISAKMP (0:2): Creating IPSec SAs
1w6d: inbound SA from 192.168.60.34 to 172.18.124.158
    (proxy 10.1.1.114 to 172.18.124.158)
1w6d: has spi 0x61C53A64 and conn_id 200 and flags 4
1w6d: lifetime of 2147483 seconds
1w6d: outbound SA from 172.18.124.158 to 192.168.60.34
    (proxy 172.18.124.158 to 10.1.1.114 )
1w6d: has spi -1885622177 and conn_id 201 and flags C
1w6d: lifetime of 2147483 seconds
1w6d: ISAKMP (0:2): deleting node 1369459046 error FALSE
    reason "quick mode done (await())"
1w6d: ISAKMP (0:2): Node 1369459046,
    Input = IKE_MESG_FROM_PEER, IKE_QM_EXCH
Old State = IKE_QM_R_QM2 New State = IKE_QM_PHASE2_COMPLETE

1w6d: IPSEC(key_engine): got a queue event...
1w6d: 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
1w6d: 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
1w6d: IPSEC(create_sa): sa created, (sa) sa_dest= 172.18.124.158,
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sa_prot= 50, sa_spi= 0x61C53A64(1640315492),
sa_trans= esp-3des esp-sha-hmac , sa_conn_id= 200
1w6d: 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
```

Journaux client

Afin d'afficher les journaux, lancez la Visionneuse de journaux sur le client VPN et définissez le filtre sur *High* pour toutes les classes configurées.

L'exemple de sortie de journal est présenté ici.

```
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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- [Prise en charge TACACS+ \(Terminal Access Controller Access Control System\)](#)
- [Cisco Secure Access Control Server pour la prise en charge Unix](#)
- [Prise en charge de Cisco Secure ACS pour Windows](#)
- [Assistance client VPN Cisco](#)
- [Prise en charge des protocoles IPsec Negotiation/IKE](#)
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