# 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.

Nemarque : la fonction IPSec VPN Accounting est désormais disponible. Référez-vous à Gestion VPN IPSec pour plus d'informations et des exemples de configurations.

## Conditions préalables

## Exigences

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

- Un pool d'adresses à attribuer pour IPSec
- · Un groupe appelé « 3000clients » avec une clé pré-partagée « cisco123 »
- · Autorisation de groupe et authentification utilisateur sur un serveur RADIUS

Remarque : la gestion des comptes RADIUS n'est pas prise en charge actuellement.

### Composants utilisés

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

- Routeur 2611 qui exécute le logiciel Cisco IOS version 12.2(8)T.
- · Cisco Secure ACS pour Windows (tout serveur RADIUS doit fonctionner).
- Client VPN Cisco pour Windows version 4.8 (tout client VPN 4.x doit fonctionner).

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.

Voici le résultat de la commande show version sur le routeur :

<#root> vpn2611# show version Cisco Internetwork Operating System Software IOS (tm) C2600 Software (C2600-JK903S-M), Version 12.2(8)T, RELEASE SOFTWARE (fc2) TAC Support: http://www.cisco.com/tac Copyright (c) 1986-2002 by cisco Systems, Inc. Compiled Thu 14-Feb-02 16:50 by ccai Image text-base: 0x80008070, data-base: 0x81816184 ROM: System Bootstrap, Version 11.3(2)XA4, RELEASE SOFTWARE (fc1) vpn2611 uptime is 1 hour, 15 minutes System returned to ROM by reload System image file is "flash:c2600-jk9o3s-mz.122-8.T" cisco 2611 (MPC860) processor (revision 0x203) with 61440K/4096K bytes of memory. Processor board ID JAD04370EEG (2285146560) M860 processor: part number 0, mask 49 Bridging software. X.25 software, Version 3.0.0. SuperLAT software (copyright 1990 by Meridian Technology Corp). TN3270 Emulation software.

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

Configuration register is 0x2102

## Théorie générale

Ce document montre l'authentification et l'autorisation, telles que l'attribution du service WINS (Windows Internet Naming Service) et du service DNS (Domain Naming Service), par le serveur RADIUS. Si vous êtes intéressé à effectuer l'authentification par le serveur RADIUS et l'autorisation localement par le routeur, référez-vous à <u>Configuration d'IPSec entre un routeur</u> <u>Cisco IOS et un client VPN Cisco 4.x pour Windows utilisant RADIUS pour l'authentification</u> <u>d'utilisateur</u>.

## Configurer

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

## Diagramme du réseau

Ce document utilise la configuration réseau suivante :



Remarque : les adresses IP de cet exemple de réseau ne sont pas routables sur l'Internet global, car il s'agit d'adresses IP privées dans un réseau de travaux pratiques.

### Configurations

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

#### aaa new-model

ļ

!--- 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
I
!
!--- 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
!
I
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
Т
interface Ethernet0/1
ip address 172.18.124.159 255.255.255.0
```

!

```
no keepalive
half-duplex
L
!--- 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
1
!--- 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
1
dial-peer cor custom
!
Т
Т
1
line con 0
exec-timeout 0 0
line aux 0
line vty 0 4
!
!
end
```

```
vpn2611#
```

### Configuration du serveur RADIUS

Configurer le serveur RADIUS pour les clients AAA (routeur)

Procédez comme suit :

1. Cliquez sur Add Entry pour ajouter le routeur à la base de données du serveur RADIUS.

User Detup			
Group Setup	<b>%</b>	AAA Clier	ıts 🙎
Components	AAA Client Hostname	AAA Client IP Address	Authenticate Using
Network Configuration	340	172.18.124.151	RADIUS (Cisco Aironet)
interface Configuration	Aironet-340- Lab	14.36.1.99	RADIUS (Cisco Aironet)
Administration Control	glenntest	172.18.124.120	RADIUS (Cisco IOS/PIX)
Batabases	router	172.18.124.150	TACACS+ (Cisco IOS)
Documentation		Add Entry	

2. Spécifiez l'adresse IP du routeur « 172.18.124.159 » avec la clé secrète partagée « cisco123 » et choisissez RADIUS dans la liste déroulante Authenticate Using.

Uter Setup Entup Deretfyreffe Companents	Add AAA Client	AAA Client Hostname     AAA Client IP Address     Key
Refuert Configuration	AAA Client Hostname Mpn2511	Authenticate Using
Digitaria Coofigeration	AAA Client IP Address	<ul> <li>Single Connect TACACS+ AAA Client</li> <li>Log Update/Watchdog Packets from this AAA Client</li> </ul>
Configuration	Key [cisco123	<ul> <li>Log RADIUS Tunneling Packets from this AAA Client</li> </ul>
Advaduant satisfy Constrail	Authenticate Using FADIUS (Cisco 105,Pb)	
Del External Uper	Single Connect TACACS+ AAA Client (Record	top in AAA Client Hostname
C Reports and Activity	accounting on failure).	The AAA Client Hostname is the name assigned to
Desamentation	Log Optime Watching Packets from this AAA	liert uie AAA chein.
	C Log KADIOS Tutalenig Packets noni uns ADA	[Back to Top]
	Submit Submit - Restart Cancel	AAA Client IP Address

Configurer le serveur RADIUS pour l'authentification et l'autorisation de groupe

Procédez comme suit :

1. Cliquez sur Add/Edit pour ajouter un utilisateur nommé 3000client au serveur RADIUS.

User Setup Group Group Composed	User: [3000client Find Add/Edit	User Setup and External User Databases     Finding a Specific User in the CiscoSecure User Databas     Adding a User to the CiscoSecure User Database     Listing Usernames that Begin with a Particular Characte     Listing All Usernames in the CiscoSecure User Databas     Changing a Username in the CiscoSecure User Databas
Refront Configuration	List users beginning with letter humber: $ \underline{A \ B \ C \ D \ K \ F \ G \ H \ J \ J \ K \ L \ H \\ \underline{N \ O \ P \ Q \ B \ S \ T \ U \ V \ H \ Z \ T \ Z \\ \underline{Q \ 1 \ C \ 2 \ 5 \ 5 \ C \ B \ 2 } $	User Setup enables you to configure individual user informatio delete users in the database. User Setup and External User Databases
Castral Uper Databaser Castral Uper Activity Consentation	2 Back to Will	<ul> <li>Before Cisco Secure ACS can authenticate users with an exter</li> <li>You must have the database up and running on the exterexample, if you are using token card authentication, you be running and properly configured.</li> <li>You must have configured the applicable parameters in</li> </ul>

2. Avant les versions 15.8.3 et 16.9.1 du logiciel Cisco IOS XE, ce mot de passe était un motclé spécial pour Cisco IOS, ce qui indique qu'un profil de groupe doit être référencé. Vous pouvez mapper l'utilisateur à un groupe Cisco Secure si vous le souhaitez. Assurez-vous qu'Aucune affectation d'adresse IP n'est sélectionnée.

Après le logiciel Cisco IOS Version 15.8.3 et le logiciel Cisco IOS XE Version 16.9.1, l'autorisation AAA nécessite un mot de passe et est obligatoire. Il est recommandé de définir le mot de passe utilisé via la commande isakmp authorization list aaa\_list1 password <secret>.

L'administrateur configure ensuite le mot de passe correspondant à <secret> sur le serveur RADIUS.

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
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
<ul> <li>Use group setting</li> </ul>
O No callback allowed
C Callback using this number
<ul> <li>Dialup client specifies callback number</li> </ul>
<ul> <li>Use Microsoft NT callback settings</li> </ul>
Client IP Address Assignment
C Use group settings
No IP address assignment
<ul> <li>Assigned by dialup client</li> </ul>
O Assign static IP address
C Assigned by AAA client pool

3. Spécifiez les paramètres d'autorisation de groupe qui seront transmis par ce compte d'utilisateur au client VPN.

Assurez-vous que cisco-av-pair est activé avec ces attributs :

• ipsec:key-exchange=ike

- ipsec:key-exchange=clé pré-partagée
- ipsec:addr-pool=ippool
- ipsec:inacl=108 (requis uniquement si vous utilisez la transmission tunnel partagée sur le routeur)

Assurez-vous également que les attributs RADIUS IETF suivants sont activés :

- Attribut 6 : Service-Type=Sortant
- Attribut 64 : Tunnel-Type=IP ESP
- Attribut 69 : Tunnel-Password=cisco123 (il s'agit de votre mot de passe de groupe sur le client VPN)

Une fois que vous avez terminé, cliquez sur Submit.

1 Default (Undefined) Services		
Cisco IOS/PIX	RADIUS Attributes	?
F [009\001] cisco-av-pair		
ipsec:key-ex ipsec:key-ex ipsec:addr-p ipsec:inacl=	change=ike change=preshared-key col=ippool 106	
IETF RAI	DIUS Attributes	3
[006] Service-Type		
E (007) E	Outbound	*
[ [007] Framed-Protocol	PPP	*
[027] Session-Timeout	1	_
		0
[028] Idle-Timeout		
ET COCALITY - LITT		0
№ [004] Tunnel-Type		
Tag	Value IPESP	<u>×</u>
lag	2 M Value	<u> </u>
V 1069 Junnel-Password		
[069] Tunnel-Password		
[069] Tunnel-Password	ag 1 Value cisco123	

Sous Attributs spécifiques au fournisseur, vous pouvez également activer les attributs facultatifs suivants :

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

### Configurer le serveur RADIUS pour l'authentification utilisateur

Procédez comme suit :

1. Cliquez sur Add/Edit pour ajouter l'utilisateur VPN dans la base de données Cisco Secure.

Dans cet exemple, le nom d'utilisateur est cisco.

Sure     Sure	User: pisco Find AdaEdt List users beginning with letter/number: ABCDEEGHIJKLM NOROBSTUXWXX2 0123456782	<ul> <li>User Setup and External User Databases</li> <li>Finding a Specific User in the CiscoSecure User Database</li> <li>Adding a User to the CiscoSecure User Database</li> <li>Listing Usernames that Begin with a Particular Character</li> <li>Listing All Usernames in the CiscoSecure User Database</li> <li>Changing a Username in the CiscoSecure User Database</li> </ul>
DG betateres	for Lost all Game	User Setup enables you to configure individual user
Destas Desamentation	2 Dark to Help	information, add users, and delete users in the database.

2. Dans la fenêtre suivante, spécifiez le mot de passe de l'utilisateur cisco. Le mot de passe est également cisco.

Vous pouvez mapper le compte d'utilisateur à un groupe. Une fois que vous avez terminé, cliquez sur Submit.

User Setup	Supplementary User Info	and the second product of
AND I STOLE	Real Name	Account Disabled     Deleting a Username
10 ( 5+110	Description	Supplementary User Info
Components	· · · · · · · · · · · · · · · · · · ·	Password Authentication
Network Configuration		<ul> <li>Group to which the user is assigned</li> </ul>
Configuration	User Setup ?	Callback     Client IP Address Assignment
Time I interface	Password Authentication:	Advanced Settings
Configuration	CiscoSécure Detebbase	<ul> <li>Network Access Restrictions</li> </ul>
Control	CiscoSecure PAP (Also used for CHAP/MS-	Max Sessions
12-2   External User	CHAP/ARAP, if the Separate field is not	Usage Quotas
DUB   Evidence	checked.)	<u>Account Disable</u>
Apports and Approxim	Password	Downloadable ACLs     Advanced TACACS+ Settless
min duine	Confirm	TACACS+ Enable Control
Carl Decomentation	Password	TACACS+ Enable Password
	Separate (CHAP/MS-CHAP/ARAP)	TACACS+ Outbound Password
	Password	TACACS+ Shell Command Authorization
land to be should	Confirm	<ul> <li>TACACS+ Unknown Services</li> </ul>
	Password	IETF RADIUS Attributes
	When using a Token Card server for	RADIUS Vendor-Specific Attributes
	authentication, supplying a separate CHAP	
	password for a token card user allows CHAP	
	token caching is enabled.	Account Disabled Status
	Group to which the user is actioned:	Select the Account Disabled check box to disable this
	Group to which the user is assigned.	account; clear the check box to enable the account.
	Submit Cancel	[Back to Top]

Configuration VPN Client 4.8

Suivez la procédure suivante pour configurer Cisco VPN Client 4.8:

- 1. Sélectionnez Start > Programs > Cisco Systems VPN Client > VPN Client (démarrer > programmes > client VPN Cisco Systems > client VPN).
- 2. Cliquez sur New pour ouvrir la fenêtre Create New VPN Connection Entry.

🍰 status: Disconnected	VPN Client - Version 4.8.01	.0300	
Connection Entries Status (	Certificates Log Options He	elp	
Connect New	Import Modify C	) Delete	CISCO SYSTEMS
Connection Entries Certific	ates Log		
Connection Entry	$\nabla$	Host	Transport
Not connected			<u> </u>

3. Entrez le nom de l'entrée de connexion avec une description. Saisissez l'adresse IP externe du routeur dans le champ Host. Saisissez ensuite le nom et le mot de passe du groupe VPN, puis cliquez sur Save.

👌 ¥PN Client   Pr	operties for "vpn"		×
Connection Entry:	n		- Caller
Description:			
Host 10	.1.1.1		
Authentication 1	Fransport Backup Servers	Dial-Up	
Group Authentic	ation	Mutual Group	Authentication
Name:	3000client		
Password:	MEXXXXX		
Confirm Passwor	J: SHERKANNER		
C Certificate Author Name:	entication Ificate Chain		
Erase User Passwor	d	Save	Cancel

4. Cliquez sur la connexion que vous souhaitez utiliser et cliquez sur Connect dans la fenêtre principale de VPN Client.

👌 status: Disconnecto	ed   VPN Client - Version 4.8	3.01.0300	_ 🗆 ×
Connection Entries Stat	us Certificates Log Options	Help	
Connect New	Import Modify	XX Delete	CISCO SYSTEMS
Connection Entries C	ertificates Log		
Connecti	on Entry 🔨	Host	Transport
vpn		10.1.1.1	IPSec/UDP
4			
Not connected.			

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.

Status: Disconnected   VPN	Client - Version 4.8.01.0300		_ 🗆 ×
Connection Entries Status Certif	icates Log Options Help		
Cancel Connect New	mport Modify Dele	<b>S</b> te	CISCO SYSTEMS
Connection Entries Certificates	Log		
Connection Entry	6	Host	Transport
vpn		10.1.1.1	IPSec/UDP
	The server has requested the authentication.	following information to complete the comple	Leancel
Authenticating user			

Le client VPN se connecte au routeur sur le site central.

👌 status: Co	onnected   VPN Client - Version 4.8.01.0300		×
Connection Er	ntries Status Certificates Log Options Help		
Disconnect	New Import Modify Delet	e	Cisco Systems
Lonnection E	Connection Entry	Host	Transport
3	vpn	10.1.1.1	IPSec/UDP
4			·
Connected to	"vpn"	Connected Time:	0 day(s), 00:09.44

## Vérifier

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

<#root>											
vpn2611#											
show crypto isakmp sa											
dst 10.1.1.1	src 10.0.0.1		state	conn-id	slot						
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											
<pre>PERMIT, flags={}</pre>											
<pre>#pkts encaps: 5, #pkts encrypt: 5, #pkts digest 5</pre>											

```
#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

## Dépannage

Utilisez cette section pour dépanner votre configuration.

### Dépannage des commandes

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+.
- debug aaa authorization raduis : affiche des informations sur l'autorisation AAA/TACACS+.
- debug radius : affiche des informations sur le dépannage de la communication entre le serveur RADIUS et le routeur.

### Sortie de débogage

Cette section fournit des informations de débogage à partir du routeur que vous pouvez utiliser pour dépanner votre configuration.

#### Journaux du routeur

<#root>

vpn2611#

show debug

General OS:

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

Cryptographic Subsystem: Crypto ISAKMP debugging is on Crypto IPSEC debugging is on

vpn2611#

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

1wOd: ISAKMP: local port 500, remote port 500 1wOd: ISAKMP (0:2): (Re)Setting client xauth list userauthen and state 1wOd: ISAKMP: Locking CONFIG struct 0x830BF118 from crypto\_ikmp\_config\_initialize\_sa, count 2 1wOd: ISAKMP (0:2): processing SA payload. message ID = 0 1wOd: ISAKMP (0:2): processing ID payload. message ID = 01wOd: ISAKMP (0:2): processing vendor id payload 1wOd: ISAKMP (0:2): vendor ID seems Unity/DPD but bad major 1wOd: ISAKMP (0:2): vendor ID is XAUTH 1wOd: ISAKMP (0:2): processing vendor id payload 1wOd: ISAKMP (0:2): vendor ID is DPD 1wOd: ISAKMP (0:2): processing vendor id payload 1wOd: ISAKMP (0:2): vendor ID is Unity 1wOd: ISAKMP (0:2): Checking ISAKMP transform 1 against priority 3 policy 1wOd: ISAKMP: encryption 3DES-CBC 1wOd: ISAKMP: hash SHA 1wOd: ISAKMP: default group 2 1wOd: ISAKMP: auth XAUTHInitPreShared 1wOd: ISAKMP: life type in seconds 1wOd: ISAKMP: life duration (VPI) of 0x0 0x20 0xC4 0x9B 1w0d: ISAKMP (0:2): atts are acceptable. Next payload is 3 1wOd: ISAKMP (0:2): processing KE payload. message ID = 0 1wOd: ISAKMP (0:2): processing NONCE payload. message ID = 0 1wOd: ISAKMP (0:2): processing vendor id payload 1wOd: ISAKMP (0:2): processing vendor id payload 1wOd: ISAKMP (0:2): processing vendor id payload 1wOd: 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' 1wOd: ISAKMP (0:2): Input = IKE\_MESG\_FROM\_PEER, IKE\_AM\_EXCH Old State = IKE\_READY New State = IKE\_R\_AM\_AAA\_AWAIT 1wOd: ISAKMP-ID-AUTH AAA/AUTHOR/CRYPTO AAA(66832552): Port='ISAKMP-ID-AUTH' list='groupauthor' service=NET 1wOd: AAA/AUTHOR/CRYPTO AAA: ISAKMP-ID-AUTH(66832552) user='3000client'

1wOd: ISAKMP-ID-AUTH AAA/AUTHOR/CRYPTO AAA(66832552): send AV service=ike

1wOd: 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) 1wOd: 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 1wOd: RADIUS: authenticator AF EC D3 AD D6 39 4F 7D - A0 5E FC 64 F5 DE A7 3B 1wOd: RADIUS: NAS-IP-Address [4] 6 172.18.124.159 1wOd: RADIUS: NAS-Port-Type [61] 6 Async [0] 1w0d: RADIUS: User-Name [1] 12 "3000client" 1wOd: RADIUS: Calling-Station-Id [31] 15 "10.0.0.1" 1wOd: RADIUS: User-Password [2] 18 \* 1wOd: RADIUS: Service-Type [6] 6 Outbound [5] 1w0d: RADIUS: Received from id 60 172.18.124.96:1645, Access-Accept, len 176 1wOd: RADIUS: authenticator 52 BA 0A 38 AC C2 2B 6F - A0 77 64 93 D6 19 78 CF 1wOd: RADIUS: Service-Type [6] 6 Outbound [5] 1wOd: RADIUS: Vendor, Cisco [26] 30 1wOd: RADIUS: Cisco AVpair [1] 24 "ipsec:key-exchange=ike" 1wOd: RADIUS: Vendor, Cisco [26] 40 1w0d: RADIUS: Cisco AVpair [1] 34 "ipsec:key-exchange=preshared-key" 1wOd: RADIUS: Vendor, Cisco [26] 30 1wOd: RADIUS: Cisco AVpair [1] 24 "ipsec:addr-pool=ippool" 1wOd: RADIUS: Vendor, Cisco [26] 23 1wOd: RADIUS: Cisco AVpair [1] 17 "ipsec:inacl=108" 1wOd: RADIUS: Tunnel-Type [64] 6 01:ESP [9] 1wOd: RADIUS: Tunnel-Password [69] 21 \* 1wOd: 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:inacl=108" 1w0d: RADIUS: Tunnel-Type, [01] 00 00 09 1w0d: RADIUS: TAS(1) created and enqueued. 1w0d: RADIUS: Tunnel-Password decrypted, [01] cisco123 1wOd: RADIUS: TAS(1) takes precedence over tagged attributes, tunnel\_type=esp 1wOd: RADIUS: free TAS(1) 1wOd: AAA/AUTHOR (66832552): Post authorization status = PASS\_REPL 1wOd: 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 1wOd: ISAKMP (0:2): SKEYID state generated

1wOd: ISAKMP (0:2): SA is doing pre-shared key authentication plux XAUTH using id type ID\_IPV4\_ADDR 1wOd: ISAKMP (2): ID payload next-payload : 10 type : 1 protocol : 17 port : 500 length : 8 1wOd: ISAKMP (2): Total payload length: 12 1wOd: ISAKMP (0:2): sending packet to 10.0.0.1 (R) AG\_INIT\_EXCH 1wOd: ISAKMP (0:2): Input = IKE\_MESG\_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 1wOd: ISAKMP (0:2): processing HASH payload. message ID = 01wOd: 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 1wOd: ISAKMP (0:2): returning IP addr to the address pool: 10.16.20.1 1wOd: ISAKMP (0:2): returning address 10.16.20.1 to pool 1wOd: ISAKMP (0:2): peer does not do paranoid keepalives. 1wOd: ISAKMP (0:2): SA has been authenticated with 10.0.0.1 1wOd: ISAKMP (0:2): sending packet to 10.0.0.1 (R) QM\_IDLE 1wOd: ISAKMP (0:2): purging node -1377537628 1wOd: ISAKMP: Sending phase 1 responder lifetime 86400 1wOd: ISAKMP (0:2): Input = IKE\_MESG\_FROM\_PEER, IKE\_AM\_EXCH Old State = IKE\_R\_AM2 New State = IKE\_P1\_COMPLETE 1w0d: IPSEC(key\_engine): got a queue event... 1wOd: IPSEC(key\_engine\_delete\_sas): rec'd delete notify from ISAKMP 1wOd: IPSEC(key\_engine\_delete\_sas): delete all SAs shared with 10.0.0.1 1wOd: ISAKMP (0:2): Need XAUTH 1wOd: 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' 1wOd: ISAKMP (0:2): Input = IKE\_MESG\_INTERNAL, IKE\_PHASE1\_COMPLETE Old State = IKE\_P1\_COMPLETE New State = IKE\_XAUTH\_AAA\_START\_LOGIN\_AWAIT 1wOd: ISAKMP: got callback 1 1wOd: ISAKMP/xauth: request attribute XAUTH\_TYPE\_V2 1wOd: ISAKMP/xauth: request attribute XAUTH\_MESSAGE\_V2 1wOd: ISAKMP/xauth: request attribute XAUTH\_USER\_NAME\_V2 1wOd: ISAKMP/xauth: request attribute XAUTH\_USER\_PASSWORD\_V2 1wOd: ISAKMP (0:2): initiating peer config to 10.0.0.1. ID = -1021889193 1wOd: ISAKMP (0:2): sending packet to 10.0.0.1 (R) CONF\_XAUTH 1wOd: ISAKMP (0:2): Input = IKE\_MESG\_FROM\_AAA, IKE\_AAA\_START\_LOGIN Old State = IKE\_XAUTH\_AAA\_START\_LOGIN\_AWAIT New State = IKE\_XAUTH\_REQ\_SENT 1wOd: ISAKMP (0:1): purging node 832238598 1wOd: ISAKMP (0:1): purging node 1913225491 1wOd: ISAKMP (0:2): received packet from 10.0.0.1 (R) CONF\_XAUTH 1wOd: ISAKMP (0:2): processing transaction payload from 10.0.0.1.

message ID = -10218891931w0d: ISAKMP: Config payload REPLY 1wOd: ISAKMP/xauth: reply attribute XAUTH\_TYPE\_V2 unexpected 1wOd: ISAKMP/xauth: reply attribute XAUTH\_USER\_NAME\_V2 1wOd: ISAKMP/xauth: reply attribute XAUTH\_USER\_PASSWORD\_V2 1wOd: ISAKMP (0:2): deleting node -1021889193 error FALSE reason "done with xauth request/reply exchange" 1wOd: ISAKMP (0:2): Input = IKE\_MESG\_FROM\_PEER, IKE\_CFG\_REPLY Old State = IKE\_XAUTH\_REQ\_SENT New State = IKE\_XAUTH\_AAA\_CONT\_LOGIN\_AWAIT 1w0d: RADIUS: ustruct sharecount=2 1w0d: Radius: radius\_port\_info() success=0 radius\_nas\_port=1 1w0d: RADIUS: Send to ISAKMP id 61 172.18.124.96:1645, Access-Request, len 72 1wOd: RADIUS: authenticator 98 12 4F CO DA B9 48 B8 - 58 00 BA 14 08 8E 87 CO 1wOd: RADIUS: NAS-IP-Address [4] 6 172.18.124.159 1wOd: RADIUS: NAS-Port-Type [61] 6 Async [0] 1w0d: RADIUS: User-Name [1] 7 "cisco" 1wOd: RADIUS: Calling-Station-Id [31] 15 "10.0.0.1" 1wOd: RADIUS: User-Password [2] 18 \* 1w0d: RADIUS: Received from id 61 172.18.124.96:1645, Access-Accept, len 26 1wOd: RADIUS: authenticator 00 03 F4 E1 9C 61 3F 03 - 54 83 E8 27 5C 6A 7B 6E 1wOd: RADIUS: Framed-IP-Address [8] 6 255.255.255.255 1wOd: RADIUS: saved authorization data for user 830CAF28 at 830F89F8 1w0d: ISAKMP: got callback 1 1wOd: ISAKMP (0:2): initiating peer config to 10.0.0.1. ID = -547189328 1wOd: ISAKMP (0:2): sending packet to 10.0.0.1 (R) CONF\_XAUTH 1wOd: ISAKMP (0:2): Input = IKE\_MESG\_FROM\_AAA, IKE\_AAA\_CONT\_LOGIN Old State = IKE\_XAUTH\_AAA\_CONT\_LOGIN\_AWAIT New State = IKE\_XAUTH\_SET\_SENT 1wOd: AAA/MEMORY: free\_user (0x830CAF28) user='cisco' ruser='NULL' port='ISAKMP' rem\_addr='10.0.0.1' authen\_type=ASCII service=LOGIN priv=0 1wOd: ISAKMP (0:2): received packet from 10.0.0.1 (R) CONF\_XAUTH 1wOd: ISAKMP (0:2): processing transaction payload from 10.0.0.1. message ID = -5471893281wOd: ISAKMP: Config payload ACK 1wOd: ISAKMP (0:2): XAUTH ACK Processed 1w0d: ISAKMP (0:2): deleting node -547189328 error FALSE reason "done with transaction" 1wOd: ISAKMP (0:2): Input = IKE\_MESG\_FROM\_PEER, IKE\_CFG\_ACK Old State = IKE\_XAUTH\_SET\_SENT New State = IKE\_P1\_COMPLETE 1wOd: ISAKMP (0:2): Input = IKE\_MESG\_INTERNAL, IKE\_PHASE1\_COMPLETE Old State = IKE\_P1\_COMPLETE New State = IKE\_P1\_COMPLETE 1wOd: ISAKMP (0:2): received packet from 10.0.0.1 (R) QM\_IDLE 1wOd: ISAKMP (0:2): processing transaction payload from 10.0.0.1. message ID = -19111892011wOd: ISAKMP: Config payload REQUEST 1wOd: ISAKMP (0:2): checking request: 1w0d: ISAKMP: IP4\_ADDRESS 1wOd: ISAKMP: IP4\_NETMASK 1w0d: ISAKMP: IP4\_DNS 1wOd: ISAKMP: IP4\_NBNS 1wOd: ISAKMP: ADDRESS\_EXPIRY

1w0d: ISAKMP: APPLICATION\_VERSION 1wOd: ISAKMP: UNKNOWN Unknown Attr: 0x7000 1wOd: ISAKMP: UNKNOWN Unknown Attr: 0x7001 1wOd: ISAKMP: DEFAULT\_DOMAIN 1wOd: ISAKMP: SPLIT\_INCLUDE 1wOd: ISAKMP: UNKNOWN Unknown Attr: 0x7007 1wOd: ISAKMP: UNKNOWN Unknown Attr: 0x7008 1wOd: ISAKMP: UNKNOWN Unknown Attr: 0x7005 1wOd: 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' 1wOd: ISAKMP (0:2): Input = IKE\_MESG\_FROM\_PEER, IKE\_CFG\_REQUEST Old State = IKE\_P1\_COMPLETE New State = IKE\_CONFIG\_AUTHOR\_AAA\_AWAIT 1wOd: ISAKMP-GROUP-AUTH AAA/AUTHOR/CRYPTO AAA(3098118746): Port='ISAKMP-GROUP-AUTH' list='groupauthor' service=NET 1wOd: AAA/AUTHOR/CRYPTO AAA: ISAKMP-GROUP-AUTH(3098118746) user='3000client' 1wOd: ISAKMP-GROUP-AUTH AAA/AUTHOR/CRYPTO AAA(3098118746): send AV service=ike 1wOd: ISAKMP-GROUP-AUTH AAA/AUTHOR/CRYPTO AAA(3098118746): send AV protocol=ipsec 1w0d: ISAKMP-GROUP-AUTH AAA/AUTHOR/CRYPTO AAA(3098118746): found list "groupauthor" 1wOd: ISAKMP-GROUP-AUTH AAA/AUTHOR/CRYPTO AAA(3098118746): Method=radius (radius) 1wOd: RADIUS: authenticating to get author data 1wOd: RADIUS: ustruct sharecount=3 1wOd: Radius: radius\_port\_info() success=0 radius\_nas\_port=1 1wOd: RADIUS: Send to ISAKMP-GROUP-AUTH id 62 172.18.124.96:1645, Access-Request, len 83 1wOd: RADIUS: authenticator 32 C5 32 FF AB B7 E4 68 - 9A 68 5A DE D5 56 OC BE 1wOd: RADIUS: NAS-IP-Address [4] 6 172.18.124.159 1wOd: RADIUS: NAS-Port-Type [61] 6 Async [0] 1wOd: RADIUS: User-Name [1] 12 "3000client" 1wOd: RADIUS: Calling-Station-Id [31] 15 "10.0.0.1" 1wOd: RADIUS: User-Password [2] 18 \* 1wOd: RADIUS: Service-Type [6] 6 Outbound [5] 1w0d: RADIUS: Received from id 62 172.18.124.96:1645, Access-Accept, len 176 1wOd: RADIUS: authenticator DF FA FE 21 07 92 4F 10 - 75 5E D6 96 66 70 19 27 1wOd: RADIUS: Service-Type [6] 6 Outbound [5] 1wOd: RADIUS: Vendor, Cisco [26] 30 1w0d: RADIUS: Cisco AVpair [1] 24 "ipsec:key-exchange=ike" 1w0d: RADIUS: Vendor, Cisco [26] 40 1wOd: RADIUS: Cisco AVpair [1] 34 "ipsec:key-exchange=preshared-key" 1wOd: RADIUS: Vendor, Cisco [26] 30 1wOd: RADIUS: Cisco AVpair [1] 24 "ipsec:addr-pool=ippool" 1wOd: RADIUS: Vendor, Cisco [26] 23 1wOd: RADIUS: Cisco AVpair [1] 17 "ipsec:inacl=108" 1wOd: RADIUS: Tunnel-Type [64] 6 01:ESP [9] 1wOd: RADIUS: Tunnel-Password [69] 21 \* 1wOd: RADIUS: saved authorization data for user 830CAF28 at 83143E64 1wOd: RADIUS: cisco AVPair "ipsec:key-exchange=ike" 1wOd: RADIUS: cisco AVPair "ipsec:key-exchange=preshared-key" 1wOd: RADIUS: cisco AVPair "ipsec:addr-pool=ippool" 1wOd: RADIUS: cisco AVPair "ipsec:inacl=108" 1wOd: RADIUS: Tunnel-Type, [01] 00 00 09

1wOd: RADIUS: TAS(1) created and enqueued. 1wOd: RADIUS: Tunnel-Password decrypted, [01] cisco123 1wOd: RADIUS: TAS(1) takes precedence over tagged attributes, tunnel\_type=esp 1wOd: RADIUS: free TAS(1) 1wOd: AAA/AUTHOR (3098118746): Post authorization status = PASS\_REPL 1wOd: 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 1wOd: ISAKMP (0:2): attributes sent in message: 1w0d: Address: 0.2.0.0 1wOd: ISAKMP (0:2): allocating address 10.16.20.2 1wOd: ISAKMP: Sending private address: 10.16.20.2 1wOd: ISAKMP: Unknown Attr: IP4\_NETMASK (0x2) 1wOd: ISAKMP: Sending ADDRESS\_EXPIRY seconds left to use the address: 86395 1wOd: 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 1wOd: ISAKMP: Unknown Attr: UNKNOWN (0x7000) 1wOd: ISAKMP: Unknown Attr: UNKNOWN (0x7001) 1wOd: ISAKMP: Sending split include name 108 network 14.38.0.0 mask 255.255.0.0 protocol 0, src port 0, dst port 0 1wOd: ISAKMP: Unknown Attr: UNKNOWN (0x7007) 1wOd: ISAKMP: Unknown Attr: UNKNOWN (0x7008) 1wOd: ISAKMP: Unknown Attr: UNKNOWN (0x7005) 1wOd: ISAKMP (0:2): responding to peer config from 10.0.0.1. ID = -1911189201 1wOd: ISAKMP (0:2): sending packet to 10.0.0.1 (R) CONF\_ADDR 1wOd: ISAKMP (0:2): deleting node -1911189201 error FALSE reason "" 1wOd: ISAKMP (0:2): Input = IKE\_MESG\_FROM\_AAA, IKE\_AAA\_GROUP\_ATTR Old State = IKE\_CONFIG\_AUTHOR\_AAA\_AWAIT New State = IKE\_P1\_COMPLETE 1wOd: 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 1wOd: ISAKMP (0:2): received packet from 10.0.0.1 (R) QM\_IDLE 1wOd: ISAKMP (0:2): processing HASH payload. message ID = 1325572811wOd: ISAKMP (0:2): processing SA payload. message ID = 132557281 1wOd: ISAKMP (0:2): Checking IPSec proposal 1 1wOd: ISAKMP: transform 1, ESP\_3DES 1wOd: ISAKMP: attributes in transform: 1wOd: ISAKMP: authenticator is HMAC-MD5 1wOd: ISAKMP: encaps is 1 1wOd: ISAKMP: SA life type in seconds 1wOd: 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 1wOd: ISAKMP (0:2): atts not acceptable. Next payload is 0 1wOd: ISAKMP (0:2): skipping next ANDed proposal (1) 1wOd: ISAKMP (0:2): Checking IPSec proposal 2 1wOd: ISAKMP: transform 1, ESP\_3DES

1wOd: ISAKMP: attributes in transform: 1wOd: ISAKMP: authenticator is HMAC-SHA 1wOd: ISAKMP: encaps is 1 1wOd: ISAKMP: SA life type in seconds 1wOd: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B 1wOd: ISAKMP (0:2): atts are acceptable. 1wOd: ISAKMP (0:2): Checking IPSec proposal 2 1wOd: ISAKMP (0:2): transform 1, IPPCP LZS 1wOd: ISAKMP: attributes in transform: 1wOd: ISAKMP: encaps is 1 1wOd: ISAKMP: SA life type in seconds 1wOd: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B 1wOd: IPSEC(validate\_proposal): transform proposal (prot 4, trans 3, hmac\_alg 0) not supported 1wOd: ISAKMP (0:2): atts not acceptable. Next payload is 0 1wOd: ISAKMP (0:2): Checking IPSec proposal 3 1wOd: ISAKMP: transform 1, ESP\_3DES 1wOd: ISAKMP: attributes in transform: 1wOd: ISAKMP: authenticator is HMAC-MD5 1wOd: ISAKMP: encaps is 1 1wOd: ISAKMP: SA life type in seconds 1wOd: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B 1wOd: 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 1wOd: ISAKMP (0:2): Checking IPSec proposal 4 1wOd: ISAKMP: transform 1, ESP\_3DES 1wOd: ISAKMP: attributes in transform: 1wOd: ISAKMP: authenticator is HMAC-SHA 1wOd: ISAKMP: encaps is 1 1wOd: ISAKMP: SA life type in seconds 1wOd: 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 1wOd: ISAKMP (0:2): processing NONCE payload. message ID = 132557281 1wOd: ISAKMP (0:2): processing ID payload. message ID = 132557281 1wOd: ISAKMP (0:2): processing ID payload. message ID = 132557281 1wOd: ISAKMP (0:2): asking for 1 spis from ipsec 1wOd: ISAKMP (0:2): Node 132557281, Input = IKE\_MESG\_FROM\_PEER, IKE\_QM\_EXCH Old State = IKE\_QM\_READY New State = IKE\_QM\_SPI\_STARVE 1w0d: IPSEC(key\_engine): got a queue event... 1w0d: IPSEC(spi\_response): getting spi 245824456 for SA from 10.1.1.1 to 10.0.0.1 for prot 3 1wOd: ISAKMP: received ke message (2/1) 1wOd: ISAKMP (0:2): sending packet to 10.0.0.1 (R) QM\_IDLE 1wOd: ISAKMP (0:2): Node 132557281, Input = IKE\_MESG\_FROM\_IPSEC, IKE\_SPI\_REPLY Old State = IKE\_QM\_SPI\_STARVE New State = IKE\_QM\_R\_QM2 1wOd: 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()" 1wOd: ISAKMP (0:2): Node 132557281, Input = IKE\_MESG\_FROM\_PEER, IKE\_QM\_EXCH Old State = IKE\_QM\_R\_QM2 New State = IKE\_QM\_PHASE2\_COMPLETE 1w0d: IPSEC(key\_engine): got a queue event... 1w0d: IPSEC(initialize\_sas): , (key eng. msg.) INBOUND local= 10.1.1.1, remote= 10.0.0.1, local\_proxy= 10.1.1.1/0.0.0.0/0/0 (type=1), remote\_proxy= 10.16.20.2/0.0.0.0/0/0 (type=1), protocol= ESP, transform= esp-3des esp-sha-hmac , lifedur= 2147483s and 0kb, spi= 0xEA6FBC8(245824456), conn\_id= 2000, keysize= 0, flags= 0x4 1w0d: IPSEC(initialize\_sas): , (key eng. msg.) OUTBOUND local= 10.1.1.1, remote= 10.0.0.1, local\_proxy= 10.1.1.1/0.0.0.0/0/0 (type=1), remote\_proxy= 10.16.20.2/0.0.0.0/0/0 (type=1), protocol= ESP, transform= esp-3des esp-sha-hmac , lifedur= 2147483s and 0kb, spi= 0x3C2B302B(1009463339), conn\_id= 2001, keysize= 0, flags= 0xC 1w0d: IPSEC(create\_sa): sa created, (sa) sa\_dest= 10.1.1.1, sa\_prot= 50, sa\_spi= 0xEA6FBC8(245824456), sa\_trans= esp-3des esp-sha-hmac , sa\_conn\_id= 2000 1w0d: IPSEC(create\_sa): sa created, (sa) sa\_dest= 10.0.0.1, sa\_prot= 50, sa\_spi= 0x3C2B302B(1009463339), sa\_trans= esp-3des esp-sha-hmac , sa\_conn\_id= 2001 1wOd: ISAKMP: received ke message (4/1) 1wOd: ISAKMP: Locking CONFIG struct 0x830BF118 for crypto\_ikmp\_config\_handle\_kei\_mess, count 3 1wOd: ISAKMP (0:1): purging SA., sa=83196748, delme=83196748 1w0d: ISAKMP: Unlocking CONFIG struct 0x830BF118 on return of attributes, count 2 1wOd: ISAKMP (0:2): received packet from 10.0.0.1 (R) QM\_IDLE 1wOd: ISAKMP (0:2): processing HASH payload. message ID = -1273332908 1wOd: ISAKMP (0:2): processing SA payload. message ID = -1273332908 1wOd: ISAKMP (0:2): Checking IPSec proposal 1 1wOd: ISAKMP: transform 1, ESP\_3DES 1wOd: ISAKMP: attributes in transform: 1wOd: ISAKMP: authenticator is HMAC-MD5 1wOd: ISAKMP: encaps is 1 1wOd: ISAKMP: SA life type in seconds 1wOd: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B 1wOd: IPSEC(validate\_proposal): transform proposal (prot 3, trans 3, hmac\_alg 1) not supported 1wOd: ISAKMP (0:2): atts not acceptable. Next payload is 0 1wOd: ISAKMP (0:2): skipping next ANDed proposal (1) 1wOd: ISAKMP (0:2): Checking IPSec proposal 2 1wOd: ISAKMP: transform 1, ESP\_3DES 1wOd: ISAKMP: attributes in transform: 1wOd: ISAKMP: authenticator is HMAC-SHA 1wOd: ISAKMP: encaps is 1 1wOd: ISAKMP: SA life type in seconds

1wOd: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B 1wOd: ISAKMP (0:2): atts are acceptable. 1wOd: ISAKMP (0:2): Checking IPSec proposal 2 1wOd: ISAKMP (0:2): transform 1, IPPCP LZS 1wOd: ISAKMP: attributes in transform: 1wOd: ISAKMP: encaps is 1 1wOd: ISAKMP: SA life type in seconds 1wOd: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B 1wOd: IPSEC(validate\_proposal): transform proposal (prot 4, trans 3, hmac\_alg 0) not supported 1wOd: ISAKMP (0:2): atts not acceptable. Next payload is 0 1wOd: ISAKMP (0:2): Checking IPSec proposal 3 1wOd: ISAKMP: transform 1, ESP\_3DES 1wOd: ISAKMP: attributes in transform: 1wOd: ISAKMP: authenticator is HMAC-MD5 1wOd: ISAKMP: encaps is 1 1wOd: ISAKMP: SA life type in seconds 1wOd: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B 1wOd: IPSEC(validate\_proposal): transform proposal (prot 3, trans 3, hmac\_alg 1) not supported 1wOd: ISAKMP (0:2): atts not acceptable. Next payload is 0 1wOd: ISAKMP (0:2): Checking IPSec proposal 4 1wOd: ISAKMP: transform 1, ESP\_3DES 1wOd: ISAKMP: attributes in transform: 1wOd: ISAKMP: authenticator is HMAC-SHA 1wOd: ISAKMP: encaps is 1 1wOd: ISAKMP: SA life type in seconds 1wOd: ISAKMP: SA life duration (VPI) of 0x0 0x20 0xC4 0x9B 1wOd: ISAKMP (0:2): atts are acceptable. 1wOd: 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 1wOd: ISAKMP (0:2): processing ID payload. message ID = -1273332908 1wOd: ISAKMP (0:2): asking for 1 spis from ipsec 1wOd: ISAKMP (0:2): Node -1273332908, Input = IKE\_MESG\_FROM\_PEER, IKE\_QM\_EXCH Old State = IKE\_QM\_READY New State = IKE\_QM\_SPI\_STARVE 1wOd: 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 1wOd: ISAKMP: received ke message (2/1) 1wOd: ISAKMP (0:2): sending packet to 10.0.0.1 (R) QM\_IDLE 1wOd: ISAKMP (0:2): Node -1273332908, Input = IKE\_MESG\_FROM\_IPSEC, IKE\_SPI\_REPLY Old State = IKE\_QM\_SPI\_STARVE New State = IKE\_QM\_R\_QM2 1wOd: ISAKMP (0:2): received packet from 10.0.0.1 (R) QM\_IDLE 1w0d: ISAKMP (0:2): Creating IPSec SAs 1w0d: inbound SA from 10.0.0.1 to 10.1.1.1 (proxy 10.16.20.2 to 14.38.0.0) 1w0d: has spi 0x2359F2EE and conn\_id 2002 and flags 4 1w0d: lifetime of 2147483 seconds

1w0d: outbound SA from 10.1.1.1 to 10.0.0.1 (proxy 14.38.0.0 to 10.16.20.2 ) 1w0d: has spi 1123818858 and conn\_id 2003 and flags C 1w0d: lifetime of 2147483 seconds 1wOd: ISAKMP (0:2): deleting node -1273332908 erro vpn2611#un ar FALSE reason "quick mode done (await()" 1wOd: 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 1wOd: IPSEC(key\_engine): got a queue event... 1w0d: IPSEC(initialize\_sas): , (key eng. msg.) INBOUND local= 10.1.1.1, remote= 10.0.0.1, local\_proxy= 172.18.124..0/255.255.255.0/0/0 (type=4), remote\_proxy= 10.16.20.2/0.0.0.0/0/0 (type=1), protocol= ESP, transform= esp-3des esp-sha-hmac , lifedur= 2147483s and 0kb, spi= 0x2359F2EE(593097454), conn\_id= 2002, keysize= 0, flags= 0x4 1w0d: IPSEC(initialize\_sas): , (key eng. msg.) OUTBOUND local= 10.1.1.1, remote= 10.0.0.1, local\_proxy= 172.18.124.0/255.255.255.0/0/0 (type=4), remote\_proxy= 10.16.20.2/0.0.0.0/0/0 (type=1), protocol= ESP, transform= esp-3des esp-shll All possible debugging has been turned off vpn2611#a-hmac . lifedur= 2147483s and 0kb, spi= 0x42FC1D6A(1123818858), conn\_id= 2003, keysize= 0, flags= 0xC 1w0d: IPSEC(create\_sa): sa created, (sa) sa\_dest= 10.1.1.1, sa\_prot= 50, sa\_spi= 0x2359F2EE(593097454), sa\_trans= esp-3des esp-sha-hmac , sa\_conn\_id= 2002 1w0d: IPSEC(create\_sa): sa created, (sa) sa\_dest= 10.0.0.1, sa\_prot= 50, sa\_spi= 0x42FC1D6A(1123818858), sa\_trans= esp-3des esp-sha-hmac , sa\_conn\_id= 2003

Journaux client

Lancez LogViewer sur le client VPN afin d'afficher les journaux. Assurez-vous que le filtre est défini sur High pour toutes les classes configurées. Voici un exemple de résultat de journal :

1 16:48:10.203 03/05/02 Sev=Info/6 DIALER/0x63300002 Initiating connection. 2 16:48:10.203 03/05/02 Sev=Info/4 CM/0x63100002 Begin connection process 3 16:48:10.223 03/05/02 Sev=Info/4 CM/0x63100004 Establish secure connection using Ethernet 4 16:48:10.223 03/05/02 Sev=Info/4 CM/0x63100026 Attempt connection with server "10.1.1.1" 5 16:48:10.223 03/05/02 Sev=Info/6 IKE/0x6300003B Attempting to establish a connection with 10.1.1.1. 6 16:48:10.273 03/05/02 Sev=Info/4 IKE/0x63000013 SENDING >>> ISAKMP OAK AG (SA, KE, NON, ID, VID, VID, VID) to 10.1.1.1 7 16:48:10.273 03/05/02 Sev=Info/4 IPSEC/0x63700014 Deleted all keys 8 16:48:10.994 03/05/02 Sev=Info/5 IKE/0x6300002F Received ISAKMP packet: peer = 10.1.1.1 9 16:48:10.994 03/05/02 Sev=Info/4 IKE/0x63000014 RECEIVING <<< ISAKMP OAK AG (SA, VID, VID, VID, VID, KE, ID, NON, HASH) from 10.1.1.1 10 16:48:10.994 03/05/02 Sev=Info/5 IKE/0x63000059 Vendor ID payload = 12F5F28C457168A9702D9FE274CC0100 11 16:48:10.994 03/05/02 Sev=Info/5 IKE/0x63000001 Peer is a Cisco-Unity compliant peer 12 16:48:10.994 03/05/02 Sev=Info/5 IKE/0x63000059 Vendor ID payload = AFCAD71368A1F1C96B8696FC77570100 13 16:48:10.994 03/05/02 Sev=Info/5 IKE/0x63000001 Peer supports DPD 14 16:48:10.994 03/05/02 Sev=Info/5 IKE/0x63000059 Vendor ID payload = 2D275A044215F48F531958AB2578EB2D 15 16:48:10.994 03/05/02 Sev=Info/5 IKE/0x63000059 Vendor ID payload = 09002689DFD6B712 16 16:48:11.025 03/05/02 Sev=Info/4 IKE/0x63000013 SENDING >>> ISAKMP OAK AG \*(HASH, NOTIFY:STATUS\_INITIAL\_CONTACT) to 10.1.1.1 17 16:48:11.045 03/05/02 Sev=Info/5 IKE/0x6300002F Received ISAKMP packet: peer = 10.1.1.1 18 16:48:11.045 03/05/02 Sev=Info/4 IKE/0x63000014 RECEIVING <<< ISAKMP OAK INFO \*(HASH, NOTIFY:STATUS\_RESP\_LIFETIME) from 10.1.1.1 19 16:48:11.045 03/05/02 Sev=Info/5 IKE/0x63000044 RESPONDER-LIFETIME notify has value of 86400 seconds 20 16:48:11.045 03/05/02 Sev=Info/5 IKE/0x63000046 This SA has already been alive for 1 seconds, setting expiry to 86399 seconds from now 21 16:48:11.075 03/05/02 Sev=Info/5 IKE/0x6300002F Received ISAKMP packet: peer = 10.1.1.1 22 16:48:11.075 03/05/02 Sev=Info/4 IKE/0x63000014 RECEIVING <<< ISAKMP OAK TRANS \*(HASH, ATTR) from 10.1.1.1 23 16:48:11.075 03/05/02 Sev=Info/4 CM/0x63100015 Launch xAuth application 24 16:48:14.920 03/05/02 Sev=Info/4 CM/0x63100017 xAuth application returned 25 16:48:14.920 03/05/02 Sev=Info/4 IKE/0x63000013

SENDING >>> ISAKMP OAK TRANS \*(HASH, ATTR) to 10.1.1.1

26 16:48:14.990 03/05/02 Sev=Info/5 IKE/0x6300002F Received ISAKMP packet: peer = 10.1.1.1 27 16:48:14.990 03/05/02 Sev=Info/4 IKE/0x63000014 RECEIVING <<< ISAKMP OAK TRANS \*(HASH, ATTR) from 10.1.1.1 28 16:48:14.990 03/05/02 Sev=Info/4 CM/0x6310000E Established Phase 1 SA. 1 Phase 1 SA in the system 29 16:48:15.000 03/05/02 Sev=Info/4 IKE/0x63000013 SENDING >>> ISAKMP OAK TRANS \*(HASH, ATTR) to 10.1.1.1 30 16:48:15.010 03/05/02 Sev=Info/5 IKE/0x6300005D Client sending a firewall request to concentrator 31 16:48:15.010 03/05/02 Sev=Info/5 IKE/0x6300005C Firewall Policy: Product=Cisco Integrated Client, Capability= (Centralized Policy Push). 32 16:48:15.010 03/05/02 Sev=Info/4 IKE/0x63000013 SENDING >>> ISAKMP OAK TRANS \*(HASH, ATTR) to 10.1.1.1 33 16:48:15.141 03/05/02 Sev=Info/5 IKE/0x6300002F Received ISAKMP packet: peer = 10.1.1.1 34 16:48:15.141 03/05/02 Sev=Info/4 IKE/0x63000014 RECEIVING <<< ISAKMP OAK TRANS \*(HASH, ATTR) from 10.1.1.1 35 16:48:15.141 03/05/02 Sev=Info/5 IKE/0x63000010 MODE\_CFG\_REPLY: Attribute = INTERNAL\_IPV4\_ADDRESS: , value = 10.16.20.2 36 16:48:15.141 03/05/02 Sev=Info/5 IKE/0xA3000017 MODE\_CFG\_REPLY: The received (INTERNAL\_ADDRESS\_EXPIRY) attribute and value (86395) is not supported 37 16:48:15.141 03/05/02 Sev=Info/5 IKE/0x6300000E MODE\_CFG\_REPLY: Attribute = APPLICATION\_VERSION, value = Cisco Internetwork Operating System Software IOS (tm) C2600 Software (C2600-JK903S-M), Version 12.2(8)T, RELEASE SOFTWARE (fc2) TAC Support: http://www.cisco.com/tac Copyright (c) 1986-2002 by cisco Systems, Inc. Compiled Thu 14-Feb-02 16:50 by ccai 38 16:48:15.141 03/05/02 Sev=Info/5 IKE/0x630000D MODE\_CFG\_REPLY: Attribute = MODECFG\_UNITY\_SPLIT\_INCLUDE (# of split\_nets), value = 0x000000139 16:48:15.141 03/05/02 Sev=Info/5 IKE/0x6300000F SPLIT\_NET #1 subnet = 172.18.124.0mask = 255.255.255.0protocol = 0src port = 0dest port=0 40 16:48:15.141 03/05/02 Sev=Info/4 CM/0x63100019 Mode Config data received 41 16:48:15.151 03/05/02 Sev=Info/5 IKE/0x63000055 Received a key request from Driver for IP address 10.1.1.1, GW IP = 10.1.1.1

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

61 16:48:26.668 03/05/02 Sev=Info/5 IKE/0x6300002F

```
Received ISAKMP packet: peer = 10.1.1.1
62 16:48:26.668 03/05/02 Sev=Info/4 IKE/0x63000014
RECEIVING <<< ISAKMP OAK QM *(HASH, SA, NON, ID, ID,
NOTIFY:STATUS_RESP_LIFETIME) from 10.1.1.1
63 16:48:26.668 03/05/02 Sev=Info/5 IKE/0x63000044
RESPONDER-LIFETIME notify has value of 3600 seconds
64 16:48:26.668 03/05/02 Sev=Info/5 IKE/0x63000045
RESPONDER-LIFETIME notify has value of 4608000 kb
65 16:48:26.668 03/05/02 Sev=Info/4 IKE/0x63000013
SENDING >>> ISAKMP OAK QM *(HASH) to 10.1.1.1
66 16:48:26.668 03/05/02 Sev=Info/5 IKE/0x63000058
Loading IPsec SA (Message ID = 0xB41A7B54 OUTBOUND SPI = 0x2359F2EE
INBOUND SPI = 0x42FC1D6A)
67 16:48:26.668 03/05/02 Sev=Info/5 IKE/0x63000025
Loaded OUTBOUND ESP SPI: 0x2359F2EE
68 16:48:26.668 03/05/02 Sev=Info/5 IKE/0x63000026
Loaded INBOUND ESP SPI: 0x42FC1D6A
```

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

## Informations connexes

- <u>Négociation IPSec/prise en charge des protocoles IKE</u>
- <u>Request For Comments (RFC)</u>
- Assistance et documentation techniques Cisco Systems

### À propos de cette traduction

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