

Comment configurer l'authentification du protocole L2TP (Layer 2 Tunnel Protocol) avec TACACS+

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[Introduction](#)

Ce document décrit comment configurer le protocole (L2TP) de tunnel de la couche 2 avec TACACS+. Il inclut des configurations d'échantillon pour des serveurs de concentrateur L2TP Access (LAC) TACACS+, des serveurs du serveur de réseau L2TP (LNS) TACACS+, et des Routeurs.

[Conditions préalables](#)

[Conditions requises](#)

Aucune spécification déterminée n'est requise pour ce document.

[Composants utilisés](#)

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

- Deux routeur Cisco 2511
- Version de logiciel 12.0(2).T de Cisco IOS®
- Cisco Secure UNIX, Windows Cisco Secure, ou logiciel gratuit TACACS+

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

[Conventions](#)

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

[Configurez](#)

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

Remarque: Pour obtenir des informations supplémentaires sur les commandes utilisées dans ce document, utilisez l'[Outil de recherche de commande](#) ([clients enregistrés](#) seulement).

[Diagramme du réseau](#)

Ce document utilise la configuration réseau indiquée dans le diagramme suivant.

[Configurations du serveur TACACS+](#)

[Configuration LAC - Cisco Secure UNIX](#)

```
# ./ViewProfile -p 9900 -u rtp.cisco.com user = rtp.cisco.com{
service=ppp {
protocol=vpdn {
set tunnel-type=l2tp
set tunnel-id=rtp_tunnel
set ip-addresses="10.31.1.56"
}
}

}

# ./ViewProfile -p 9900 -u rtp_tunnel
user = rtp_tunnel{
password = chap "FGHIJ"
service=ppp {
protocol=lcp {
}
}
protocol=ip {
}
}
```

```
}
```

[Configuration LNS - Cisco Secure UNIX](#)

```
# ./ViewProfile -p 9900 -u janedoe@rtp.cisco.com
user = janedoe@rtp.cisco.com{
password = chap "rtprules"
service=ppp {
protocol=lcp {
}
}
protocol=ip {
}
}

# ./ViewProfile -p 9900 -u ABCDE
user = ABCDE{
password = chap "FGHIJ"
service=ppp {
protocol=lcp {
}
}
protocol=ip {
}
}

}
```

[Configuration LAC - Windows Cisco Secure](#)

Terminez-vous ces étapes pour configurer le LAC sur Windows Cisco Secure :

1. Rtp_tunnel d'utilisateur d'installation en tant qu'utilisateur normal de PPP (mot de passe et/ou mot de passe CHAP dans l'installation utilisateur).
2. Mettez l'utilisateur dans group_1 et vérifiez le service **PPP/IP**. Contrôlez **PPP/LCP** si cette case est affichée.
3. Utilisateur rtp.cisco.com d'installation. Le mot de passe est « ne s'inquiètent pas. »
4. Si quelques options ne sont pas présentées dans des configurations de groupe, allez à la **configuration d'interface** et sélectionnez les cases pour les obtenir pour apparaître.
5. Mettez l'utilisateur dans group_2 et vérifiez le service **PPP/VPDN**. Le tunnel-id est **rtp_tunnel**, la liste d'IP address est **10.31.1.56**, et dans la case rectangulaire d'attribut personnalisé dessous, le type **tunnel-type=I2tp**.

[Configuration LNS - Windows Cisco Secure](#)

Terminez-vous ces étapes pour configurer le LNS pour Windows Cisco Secure :

1. Installez les utilisateurs « ABCDE » et « janedoe@rtp.cisco.com » en tant qu'utilisateurs normaux de PPP (mot de passe et/ou mot de passe CHAP dans l'installation utilisateur).
2. Mettez les utilisateurs dans group_3 et vérifiez le service **PPP/IP**. Contrôlez **PPP/LCP** si cette case est affichée.

[Configuration de logiciel gratuit du LAC TACACS+](#)

```
user = rtp.cisco.com {
service = ppp protocol = vpdn {
```

```
tunnel-type = l2tp
tunnel-id = rtp_tunnel
ip-addresses = "10.31.1.56"
}
}
```

```
user = rtp_tunnel {
chap = cleartext "FGHIJ"
service = ppp protocol = ip {
default attribute = permit
}
}
```

[Configuration de logiciel gratuit LNS TACACS+](#)

```
key = "cisco"
```

```
user = janedoe@rtp.cisco.com {
chap = cleartext "rtprules"
service = ppp protocol = ip {
default attribute = permit
}
}
```

```
user = ABCDE {
chap = cleartext "FGHIJ"
service = ppp protocol = ip {
default attribute = permit
}
}
```

[Configurations de routeur](#)

Configuration de routeur de LAC

```
version 12.0
service timestamps debug datetime
service timestamps log uptime
no service password-encryption
!
hostname LAC
!
aaa new-model
aaa authentication ppp default if-needed tacacs+
aaa authorization network default tacacs+
aaa accounting network default start-stop tacacs+
enable secret level 7 5 $1$Dj3K$9jkyuJR6fJV2JO./Qt0lC1
enable password ww
!
username john password 0 doe
ip subnet-zero
no ip domain-lookup
!
vpdn enable
!
vpdn search-order domain
!
interface Loopback0
no ip address
no ip directed-broadcast
!
interface Ethernet0
ip address 10.31.1.144 255.255.255.0
no ip directed-broadcast
```

```

!
interface Serial0
no ip address
no ip directed-broadcast
no ip mroute-cache
shutdown
!
interface Serial1
no ip address
no ip directed-broadcast
shutdown
!
interface Async1
ip unnumbered Ethernet0
no ip directed-broadcast
ip tcp header-compression passive
encapsulation ppp
async mode dedicated
peer default ip address pool default
ppp authentication chap
!
ip local pool default 10.5.5.5 10.5.5.50
ip classless
ip route 0.0.0.0 0.0.0.0 10.31.1.1
!
tacacs-server host 171.68.118.106
tacacs-server key cisco
!
line con 0
transport input none
line 1
exec-timeout 0 0
autoselect during-login
autoselect ppp
modem Dialin
transport preferred none
transport output none
speed 38400
flowcontrol hardware
line 2 16
modem InOut
transport input all
speed 38400
flowcontrol hardware
line aux 0
line vty 0 4
password WW
!
end

```

Configuration de routeur LNS

```

version 12.0
service timestamps debug datetime
service timestamps log uptime
no service password-encryption
!
hostname LNS
!
aaa new-model
aaa authentication ppp default if-needed tacacs+
aaa authorization network default tacacs+
aaa accounting network default start-stop tacacs+
enable secret 5 $1$wfMI$ixUG9hw7yhmsv.87.krpZl
enable password WW

```

```
!  
username john password 0 doe  
ip subnet-zero  
no ip domain-lookup  
  
!  
vpdn enable  
!  
vpdn-group 1  
accept dialin l2tp virtual-template 1 remote rtp_tunnel  
local name ABCDE  
!  
interface Ethernet0  
ip address 10.31.1.56 255.255.255.0  
no ip directed-broadcast  
!  
interface Virtual-Template1  
ip unnumbered Ethernet0  
no ip directed-broadcast  
peer default ip address pool default  
ppp authentication chap  
!  
interface Serial0  
no ip address  
no ip directed-broadcast  
no ip mroute-cache  
shutdown  
!  
interface Serial1  
no ip address  
no ip directed-broadcast  
shutdown  
!  
interface Async1  
ip unnumbered Ethernet0  
no ip directed-broadcast  
ip tcp header-compression passive  
encapsulation ppp  
async mode dedicated  
peer default ip address pool setup_pool  
ppp authentication chap pap  
!  
!  
!  
!  
ip local pool default 10.6.1.1 10.6.1.2  
ip classless  
ip route 0.0.0.0 0.0.0.0 10.31.1.1  
!  
tacacs-server host 171.68.118.101  
tacacs-server key cisco  
!  
line con 0  
transport input none  
line 1 8  
autoselect during-login  
autoselect ppp  
modem Dialin  
speed 115200  
flowcontrol hardware  
line aux 0  
line vty 0 4  
password WW  
!
```

```
end
```

Vérfiez

Sortie de commande show des deux Routeurs

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'[Output Interpreter Tool](#) ([clients enregistrés](#) uniquement), qui vous permet de voir une analyse de la sortie de la commande show.

Routeur de LAC

```
LAC#show vpdn session L2TP Session Information (Total tunnels=1 sessions=1) LocID RemID TunID
Intf Username State Last Chg 1 1 76 As1 janedoe@rtp.c est 00:00:32 % No active L2F tunnels
LAC#show vpdn tunnel L2TP Tunnel Information (Total tunnels=1 sessions=1) LocID RemID Remote
Name State Remote Address Port Sessions 76 58 ABCDE est 10.31.1.56 1701 1 % No active L2F
tunnels
```

Routeur LNS

```
LNS#show vpdn session L2TP Session Information (Total tunnels=1 sessions=1) LocID RemID TunID
Intf Username State Last Chg 1 1 58 V1l janedoe@rtp.c est 00:01:55 % No active L2F tunnels
LNS#show vpdn tunnel L2TP Tunnel Information (Total tunnels=1 sessions=1) LocID RemID Remote
Name State Remote Address Port Sessions 58 76 rtp_tunnel est 10.31.1.144 1701 1 % No active L2F
tunnels
```

Show version sorti des deux Routeurs

```
LAC#show version Cisco Internetwork Operating System Software IOS (tm) 2500 Software (C2500-IS-
L), Version 12.0(2)T, RELEASE SOFTWARE (fc1) Copyright (c) 1986-1998 by cisco Systems, Inc.
Compiled Wed 09-Dec-98 02:31 by dschwart Image text-base: 0x030403B0, data-base: 0x00001000 ROM:
System Bootstrap, Version 11.0(10c), SOFTWARE BOOTFLASH: 3000 Bootstrap Software (IGS-BOOT-R),
Version 11.0(10c), RELEASE SOFTWARE (fc1) LAC uptime is 20 hours, 22 minutes System restarted by
reload at 16:13:55 UTC Fri Jan 29 1999 System image file is "flash:c2500-is-1.120-2.T" cisco
2511 (68030) processor (revision M) with 14336K/2048K bytes of memory. Processor board ID
07041186, with hardware revision 00000000 Bridging software. X.25 software, Version 3.0.0. 1
Ethernet/IEEE 802.3 interface(s) 2 Serial network interface(s) 16 terminal line(s) 32K bytes of
non-volatile configuration memory. 16384K bytes of processor board System flash (Read ONLY)
Configuration register is 0x2102
```

Ce qui peut aller mal - Mauvais debug de LAC

Cette sortie de débogage inclut des commentaires sur où l'ordre arrête quand le routeur misconfiguré.

```
LAC#show debug General OS: AAA Authentication debugging is on AAA Authorization debugging is on
AAA Accounting debugging is on VPN: L2X protocol events debugging is on L2X protocol errors
debugging is on VPDN events debugging is on VPDN errors debugging is on VTEMPLATE: Virtual
Template debugging is on LAC# Jan 30 12:17:09: As1 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
20:03:18: %LINK-3-UPDOWN: Interface Async1, changed state to up Jan 30 12:17:09: As1 VPDN:
Looking for tunnel -- rtp.cisco.com -- Jan 30 12:17:09: AAA: parse name=Async1 idb type=10 tty=1
Jan 30 12:17:09: AAA: name=Async1 flags=0x11 type=4 shelf=0 slot=0 adapter=0 port=1 channel=0
Jan 30 12:17:09: AAA/AUTHEN: create_user (0x278B90) user='rtp.cisco.com' ruser='' port='Async1'
rem_addr='' authn_type=NONE service=LOGIN priv=0 Jan 30 12:17:09: AAA/AUTHOR/VPDN (898425447):
Port='Async1' list='default' service=NET Jan 30 12:17:09: AAA/AUTHOR/VPDN: (898425447)
user='rtp.cisco.com' Jan 30 12:17:09: AAA/AUTHOR/VPDN: (898425447) send AV service=ppp Jan 30
```

12:17:09: AAA/AUTHOR/VPDN: (898425447) send AV protocol=vpdn Jan 30 12:17:09: AAA/AUTHOR/VPDN (898425447) found list "default" Jan 30 12:17:09: AAA/AUTHOR/VPDN: (898425447) Method=TACACS+ Jan 30 12:17:09: AAA/AUTHOR/TAC+: (898425447): user=rtp.cisco.com Jan 30 12:17:09: AAA/AUTHOR/TAC+: (898425447): send AV service=ppp Jan 30 12:17:09: AAA/AUTHOR/TAC+: (898425447): send AV protocol=vpdn Jan 30 12:17:09: TAC+: (898425447): received author response status = PASS_ADD Jan 30 12:17:09: AAA/AUTHOR (898425447): Post authorization status = PASS_ADD Jan 30 12:17:09: AAA/AUTHOR/VPDN: Processing AV service=ppp Jan 30 12:17:09: AAA/AUTHOR/VPDN: Processing AV protocol=vpdn Jan 30 12:17:09: AAA/AUTHOR/VPDN: Processing AV tunnel-type=l2tp Jan 30 12:17:09: AAA/AUTHOR/VPDN: Processing AV tunnel-id=rtp_tunnel *!--- If the wrong tunnel termination IP address !--- is in the profile: Jan 30 12:56:30: AAA/AUTHOR/VPDN: Processing AV ip-addresses=1.1.1.1* Jan 30 12:17:09: AAA/AUTHOR/VPDN: Processing AV ip-addresses=10.31.1.56 Jan 30 12:17:09: As1 VPDN: Get tunnel info for rtp.cisco.com with LAC rtp_tunnel, IP 10.31.1.56 Jan 30 12:17:09: AAA/AUTHEN: free_user (0x278B90) user='rtp.cisco.com' ruser='' port='Async1' rem_addr='' authen_type=NONE service=LOGIN priv=0 *!--- If the wrong tunnel termination IP !--- address is in the profile: Jan 30 12:56:30: As1 VPDN: Forward to address 1.1.1.1 !--- The connection eventually drops on this end and no !--- debug is seen on the other end.* Jan 30 12:17:09: As1 VPDN: Forward to address 10.31.1.56 Jan 30 12:17:09: As1 VPDN: Forwarding... Jan 30 12:17:09: AAA: parse name=Async1 idb type=10 tty=1 Jan 30 12:17:09: AAA: name=Async1 flags=0x11 type=4 shelf=0 slot=0 adapter=0 port=1 channel=0 Jan 30 12:17:09: AAA/AUTHEN: create_user (0x22CDEC) user='janedoe@rtp.cisco.com' ruser='' port='Async1' rem_addr='async' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:09: As1 VPDN: Bind interface direction=1 Jan 30 12:17:09: Tnl/Cl 74/1 L2TP: Session FS enabled Jan 30 12:17:09: Tnl/Cl 74/1 L2TP: Session state change from idle to wait-for-tunnel Jan 30 12:17:09: As1 74/1 L2TP: Create session Jan 30 12:17:09: Tnl 74 L2TP: SM State idle Jan 30 12:17:09: Tnl 74 L2TP: O SCCRQ Jan 30 12:17:09: Tnl 74 L2TP: Tunnel state change from idle to wait-ctl-reply Jan 30 12:17:09: Tnl 74 L2TP: SM State wait-ctl-reply Jan 30 12:17:09: As1 VPDN: janedoe@rtp.cisco.com is forwarded Jan 30 12:17:10: Tnl 74 L2TP: I SCCRP from ABCDE Jan 30 12:17:10: Tnl 74 L2TP: Got a challenge from remote peer, ABCDE Jan 30 12:17:10: AAA: parse name= idb type=-1 tty=-1 Jan 30 12:17:10: AAA/AUTHEN: create_user (0x23232C) user='rtp_tunnel' ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:10: AAA/AUTHEN/START (1598999635): port='' list='default' action=SENDAUTH service=PPP Jan 30 12:17:10: AAA/AUTHEN/START (1598999635): found list default Jan 30 12:17:10: AAA/AUTHEN (1598999635): status = UNKNOWN Jan 30 12:17:10: AAA/AUTHEN/START (1598999635): Method=TACACS+ Jan 30 12:17:10: TAC+: send AUTHEN/START packet ver=193 id=1598999635 Jan 30 12:17:10: TAC+: ver=192 id=1598999635 received AUTHEN status = ERROR Jan 30 12:17:10: AAA: parse name= idb type=-1 tty=-1 Jan 30 12:17:10: AAA/AUTHEN: create_user (0x232470) user='rtp_tunnel' ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:10: TAC+: ver=192 id=3400389836 received AUTHEN status = PASS Jan 30 12:17:10: AAA/AUTHEN: free_user (0x232470) user='rtp_tunnel' ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:10: AAA/AUTHEN (1598999635): status = PASS Jan 30 12:17:10: AAA/AUTHEN: free_user (0x23232C) user='rtp_tunnel' ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 *!--- Change the CHAP passwords. The password rtp_tunnel !--- in the LAC TACACS+ users' file does not match the !--- password for "local name ABCDE" from the router !--- in the LMS TACACS+ users' file: Jan 30 13:24:23: Tnl 88 L2TP: Tunnel Authentication fails for ABCDE Jan 30 13:24:23: Tnl 88 L2TP: Expected 7C959CA96C1E4AAA68BB3D481249488B Jan 30 13:24:23: Tnl 88 L2TP: Got E4118FB4C8C4467EA4BF8872276C20B2* Jan 30 12:17:10: Tnl 74 L2TP: Got a response from remote peer, ABCDE Jan 30 12:17:10: AAA: parse name= idb type=-1 tty=-1 Jan 30 12:17:10: AAA/AUTHEN: create_user (0x22FBA4) user='rtp_tunnel' ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:10: AAA/AUTHEN/START (2964849625): port='' list='default' action=SENDAUTH service=PPP Jan 30 12:17:10: AAA/AUTHEN/START (2964849625): found list default Jan 30 12:17:10: AAA/AUTHEN (2964849625): status = UNKNOWN Jan 30 12:17:10: AAA/AUTHEN/START (2964849625): Method=TACACS+ Jan 30 12:17:10: TAC+: send AUTHEN/START packet ver=193 id=2964849625 20:03:20: %LINEPROTO-5-UPDOWN: Line protocol on Interface Async1, changed state to up Jan 30 12:17:11: TAC+: ver=192 id=2964849625 received AUTHEN status = ERROR Jan 30 12:17:11: AAA: parse name= idb type=-1 tty=-1 Jan 30 12:17:11: AAA/AUTHEN: create_user (0x22FC8C) user='rtp_tunnel' ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:11: As1 74/1 L2TP: Discarding data packet because tunnel is not open Jan 30 12:17:11: As1 74/1 L2TP: Discarding data packet because tunnel is not open Jan 30 12:17:11: TAC+: ver=192 id=1474818051 received AUTHEN status = PASS Jan 30 12:17:11: AAA/AUTHEN: free_user (0x22FC8C) user='rtp_tunnel' ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:11: AAA/AUTHEN (2964849625): status = PASS Jan 30 12:17:11: AAA/AUTHEN: free_user (0x22FBA4) user='rtp_tunnel' ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:11: Tnl 74 L2TP: Tunnel Authentication success Jan 30 12:17:11: Tnl 74 L2TP: Tunnel state change from wait-ctl-reply to established Jan 30 12:17:11: Tnl 74 L2TP: O SCCCN to ABCDE tnlid 56 Jan 30 12:17:11: Tnl 74 L2TP: SM State established Jan 30 12:17:11: As1 74/1 L2TP: O

ICRQ to ABCDE 56/0 Jan 30 12:17:11: As1 74/1 L2TP: Session state change from wait-for-tunnel to wait-reply Jan 30 12:17:11: Tnl 74 L2TP: Dropping old CM, Ns 0, expected 1 Jan 30 12:17:11: As1 74/1 L2TP: O ICCN to ABCDE 56/1 Jan 30 12:17:11: As1 74/1 L2TP: Session state change from wait-reply to established LAC#

Ce qui peut aller mal - Mauvais debug de LNS

Cette sortie de débogage inclut des commentaires sur où l'ordre arrête quand le routeur misconfiguré.

```
LNS#show debug General OS: AAA Authentication debugging is on AAA Authorization debugging is on AAA Accounting debugging is on VPN: L2X protocol events debugging is on L2X protocol errors debugging is on VPDN events debugging is on VPDN errors debugging is on VTEMPLATE: Virtual Template debugging is on LNS# Jan 30 12:17:09: L2TP: I SCCRQ from rtp_tunnel tnl 74 Jan 30 12:17:09: Tnl 56 L2TP: New tunnel created for remote rtp_tunnel, address 10.31.1.144 !--- Instead of the LAC sending the "rtp_tunnel" !--- (see the user profile on the TACACS+ server), it sends "junk". !--- We are expecting "rtp_tunnel" as in "accept dialin l2tp !--- virtual-template 1 remote rtp_tunnel" in this configuration: Jan 30 13:05:16: L2TP: I SCCRQ from junk tnl 81 Jan 30 13:05:16: L2X: Never heard of junk Jan 30 13:05:16: L2TP: Could not find info block for junk Jan 30 12:17:09: Tnl 56 L2TP: Got a challenge in SCCRQ, rtp_tunnel Jan 30 12:17:09: AAA: parse name= idb type=-1 tty=-1 Jan 30 12:17:09: AAA/AUTHEN: create_user (0x21F6D0) user='ABCDE' ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:09: AAA/AUTHEN/START (3194595626): port='' list='default' action=SENDAUTH service=PPP Jan 30 12:17:09: AAA/AUTHEN/START (3194595626): found list default Jan 30 12:17:09: AAA/AUTHEN (3194595626): status = UNKNOWN Jan 30 12:17:09: AAA/AUTHEN/START (3194595626): Method=TACACS+ Jan 30 12:17:09: TAC+: send AUTHEN/START packet ver=193 id=3194595626 Jan 30 12:17:09: TAC+: ver=192 id=3194595626 received AUTHEN status = ERROR Jan 30 12:17:09: AAA: parse name= idb type=-1 tty=-1 Jan 30 12:17:09: AAA/AUTHEN: create_user (0x2281AC) user='ABCDE' ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:09: TAC+: ver=192 id=3639011179 received AUTHEN status = PASS Jan 30 12:17:09: AAA/AUTHEN: free_user (0x2281AC) user='ABCDE' ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:09: AAA/AUTHEN (3194595626): status = PASS Jan 30 12:17:09: AAA/AUTHEN: free_user (0x21F6D0) user='ABCDE' ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:09: Tnl 56 L2TP: O SCCRP to rtp_tunnel tnlid 74 Jan 30 12:17:09: Tnl 56 L2TP: Tunnel state change from idle to wait-ctl-reply Jan 30 12:17:10: Tnl 56 L2TP: O Resend SCCRP, flg TLF, ver 2, len 152, tnl 74, cl 0, ns 0, nr 1 Jan 30 12:17:10: Tnl 56 L2TP: I SCCCN from rtp_tunnel tnl 74 Jan 30 12:17:10: Tnl 56 L2TP: Got a Challenge Response in SCCCN from rtp_tunnel Jan 30 12:17:10: AAA: parse name= idb type=-1 tty=-1 Jan 30 12:17:10: AAA/AUTHEN: create_user (0x227F3C) user='ABCDE' ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:10: AAA/AUTHEN/STARTTranslating "rtp.cisco.com" (4117701992): port='' list='default' action=SENDAUTH service=PPP Jan 30 12:17:10: AAA/AUTHEN/START (4117701992): found list default Jan 30 12:17:10: AAA/AUTHEN (4117701992): status = UNKNOWN Jan 30 12:17:10: AAA/AUTHEN/START (4117701992): Method=TACACS+ Jan 30 12:17:10: TAC+: send AUTHEN/START packet ver=193 id=4117701992 Jan 30 12:17:11: TAC+: ver=192 id=4117701992 received AUTHEN status = ERROR Jan 30 12:17:11: AAA: parse name= idb type=-1 tty=-1 Jan 30 12:17:11: AAA/AUTHEN: create_user (0x228E68) user='ABCDE' ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:11: TAC+: ver=192 id=2827432721 received AUTHEN status = PASS Jan 30 12:17:11: AAA/AUTHEN: free_user (0x228E68) user='ABCDE' ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:11: AAA/AUTHEN (4117701992): status = PASS Jan 30 12:17:11: AAA/AUTHEN: free_user (0x227F3C) user='ABCDE' ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:11: Tnl 56 L2TP: Tunnel Authentication success Jan 30 12:17:11: Tnl 56 L2TP: Tunnel state change from wait-ctl-reply to established Jan 30 12:17:11: Tnl 56 L2TP: SM State established Jan 30 12:17:11: Tnl 56 L2TP: I ICRQ from rtp_tunnel tnl 74 Jan 30 12:17:11: Tnl/Cl 56/1 L2TP: Session FS enabled Jan 30 12:17:11: Tnl/Cl 56/1 L2TP: Session state change from idle to wait-for-tunnel Jan 30 12:17:11: Tnl/Cl 56/1 L2TP: New session created Jan 30 12:17:11: Tnl/Cl 56/1 L2TP: O ICRP to rtp_tunnel 74/1 Jan 30 12:17:11: Tnl/Cl 56/1 L2TP: Session state change from wait-for-tunnel to wait-connect Jan 30 12:17:11: Tnl/Cl 56/1 L2TP: I ICCN from rtp_tunnel tnl 74, cl 1 Jan 30 12:17:11: Tnl/Cl 56/1 L2TP: Session state change from wait-connect to established Jan 30 12:17:11: Vtl VTEMPLATE: Reuse Vtl, recycle queue size 0 Jan 30 12:17:11: Vtl VTEMPLATE: Hardware address 00e0.1e68.942c Jan 30 12:17:11: Vtl VPDN: Virtual interface created for janedoe@rtp.cisco.com Jan 30 12:17:11: Vtl VPDN: Set to Async interface Jan 30 12:17:11: Vtl VPDN: Clone from Vtemplate 1 filterPPP=0 blocking Jan 30 12:17:11: Vtl VTEMPLATE: Has a new cloneblk vtemplate, now it has vtemplate Jan 30 12:17:11: Vtl VTEMPLATE: ***** CLONE VACCESS1
```

***** Jan 30 12:17:11: Vil VTEMPLATE: Clone from Virtual-Templatel interface
Virtual-Access1 default ip address no ip address encap ppp ip unnumbered Ethernet0 peer default
ip address pool default ppp authentication chap ip unnum ethernet0 peer def ip address pool
default ppp authen chap end Jan 30 12:17:12: janedoe@rtp.cisco.com 56/1 L2TP: Session with no
hwidb 20:12:14: %LINK-3-UPDOWN: Interface Virtual-Access1, changed state to up Jan 30 12:17:13:
Vil AAA/AUTHOR/FSM: (0): LCP succeeds trivially Jan 30 12:17:13: Vil VPDN: Bind interface
direction=2 Jan 30 12:17:13: Vil VPDN: PPP LCP accepted rcv CONFACK Jan 30 12:17:13: Vil VPDN:
PPP LCP accepted sent CONFACK Jan 30 12:17:13: Vil L2X: Discarding packet because of no
mid/session Jan 30 12:17:13: AAA: parse name=Virtual-Access1 idb type=21 tty=-1 Jan 30 12:17:13:
AAA: name=Virtual-Access1 flags=0x11 type=5 shelf=0 slot=0 adapter=0 port=1 channel=0 Jan 30
12:17:13: AAA/AUTHEN: create_user (0x1F5100) user='janedoe@rtp.cisco.com' ruser=''
port='Virtual-Access1' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:13:
AAA/AUTHEN/START (562517969): port='Virtual-Access1' list='' action=LOGIN service=PPP Jan 30
12:17:13: AAA/AUTHEN/START (562517969): using "default" list Jan 30 12:17:13: AAA/AUTHEN
(562517969): status = UNKNOWN Jan 30 12:17:13: AAA/AUTHEN/START (562517969): Method=TACACS+ Jan
30 12:17:13: TAC+: send AUTHEN/START packet ver=193 id=562517969 Jan 30 12:17:14: TAC+: ver=192
id=562517969 received AUTHEN status = GETPASS Jan 30 12:17:14: AAA: parse name=Virtual-Access1
idb type=-1 tty=-1 Jan 30 12:17:14: AAA: name=Virtual-Access1 flags=0x11 type=6 shelf=0 slot=0
adapter=0 port=1 channel=0 Jan 30 12:17:14: AAA/AUTHEN: create_user (0x1F5270)
user='janedoe@rtp.cisco.com' ruser='' port='Virtual-Access1' rem_addr='' authen_type=CHAP
service=PPP priv=1 Jan 30 12:17:14: TAC+: ver=192 id=2384902384 received AUTHEN status = PASS
Jan 30 12:17:14: AAA/AUTHEN: free_user (0x1F5270) user='janedoe@rtp.cisco.com' ruser=''
port='Virtual-Access1' rem_addr='' authen_type=CHAP service=PPP priv=1 *!--- Here, the tunnel is
ok, but the user !--- enters a bad password in dialing: Jan 30 13:39:44: AAA/AUTHEN
(1958732267): status = FAIL 21:34:45: %VPDN-6-AUTHENFAIL: L2F HGW 10.31.1.144, AAA
authentication failure for Vil user janedoe@rtp.cisco.com; Authentication failure* Jan 30
12:17:14: AAA/AUTHEN (562517969): status = PASS Jan 30 12:17:14: Vil AAA/AUTHOR/LCP: Authorize
LCP Jan 30 12:17:14: AAA/AUTHOR/LCP Vil (413543389): Port='Virtual-Access1' list='' service=NET
Jan 30 12:17:14: AAA/AUTHOR/LCP: Vil (413543389) user='janedoe@rtp.cisco.com' Jan 30 12:17:14:
AAA/AUTHOR/LCP: Vil (413543389) send AV service=ppp Jan 30 12:17:14: AAA/AUTHOR/LCP: Vil
(413543389) send AV protocol=lcp Jan 30 12:17:14: AAA/AUTHOR/LCP (413543389) found list
"default" Jan 30 12:17:14: AAA/AUTHOR/LCP: Vil (413543389) Method=TACACS+ Jan 30 12:17:14:
AAA/AUTHOR/TAC+: (413543389): user=janedoe@rtp.cisco.com Jan 30 12:17:14: AAA/AUTHOR/TAC+:
(413543389): send AV service=ppp Jan 30 12:17:14: AAA/AUTHOR/TAC+: (413543389): send AV
protocol=lcp Jan 30 12:17:14: TAC+: (413543389): received author response status = PASS_ADD Jan
30 12:17:14: AAA/AUTHOR (413543389): Post authorization status = PASS_ADD Jan 30 12:17:14:
AAA/ACCT/NET/START User janedoe@rtp.cisco.com, Port Virtual-Access1, List "" Jan 30 12:17:14:
AAA/ACCT/NET: Found list "default" Jan 30 12:17:14: Vil AAA/AUTHOR/FSM: (0): Can we start IPCP?
Jan 30 12:17:14: AAA/AUTHOR/FSM Vil (1358526470): Port='Virtual-Access1' list='' service=NET Jan
30 12:17:14: AAA/AUTHOR/FSM: Vil (1358526470) user='janedoe@rtp.cisco.com' Jan 30 12:17:14:
AAA/AUTHOR/FSM: Vil (1358526470) send AV service=ppp Jan 30 12:17:14: AAA/AUTHOR/FSM: Vil
(1358526470) send AV protocol=ip Jan 30 12:17:14: AAA/AUTHOR/FSM (1358526470) found list
"default" Jan 30 12:17:14: AAA/AUTHOR/FSM: Vil (1358526470) Method=TACACS+ Jan 30 12:17:14:
AAA/AUTHOR/TAC+: (1358526470): user=janedoe@rtp.cisco.com Jan 30 12:17:14: AAA/AUTHOR/TAC+:
(1358526470): send AV service=ppp Jan 30 12:17:14: AAA/AUTHOR/TAC+: (1358526470): send AV
protocol=ip Jan 30 12:17:14: TAC+: (1358526470): received author response status = PASS_ADD Jan
30 12:17:14: AAA/AUTHOR (1358526470): Post authorization status = PASS_ADD Jan 30 12:17:14: Vil
AAA/AUTHOR/FSM: We can start IPCP Jan 30 12:17:14: TAC+: (1442592025): received acct response
status = UNKNOWN 20:12:16: %LINEPROTO-5-UPDOWN: Line protocol on Interface Virtual-Access1,
changed state to up Jan 30 12:17:16: Vil AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want
0.0.0.0 Jan 30 12:17:16: Vil AAA/AUTHOR/IPCP: Processing AV service=ppp Jan 30 12:17:16: Vil
AAA/AUTHOR/IPCP: Processing AV protocol=ip Jan 30 12:17:16: Vil AAA/AUTHOR/IPCP: Authorization
succeeded Jan 30 12:17:16: Vil AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 0.0.0.0 Jan
30 12:17:16: Vil AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 10.6.1.1 Jan 30 12:17:16:
Vil AAA/AUTHOR/IPCP: Processing AV service=ppp Jan 30 12:17:16: Vil AAA/AUTHOR/IPCP: Processing
AV protocol=ip Jan 30 12:17:16: Vil AAA/AUTHOR/IPCP: Authorization succeeded Jan 30 12:17:16:
Vil AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 10.6.1.1 Jan 30 12:17:16: Vil
AAA/AUTHOR/IPCP: Start. Her address 10.6.1.1, we want 10.6.1.1 Jan 30 12:17:16: AAA/AUTHOR/IPCP
Vil (3572380713): Port='Virtual-Access1' list='' service=NET Jan 30 12:17:16: AAA/AUTHOR/IPCP:
Vil (3572380713) user='janedoe@rtp.cisco.com' Jan 30 12:17:16: AAA/AUTHOR/IPCP: Vil (3572380713)
send AV service=ppp Jan 30 12:17:16: AAA/AUTHOR/IPCP: Vil (3572380713) send AV protocol=ip Jan
30 12:17:16: AAA/AUTHOR/IPCP: Vil (3572380713) send AV addr*10.6.1.1 Jan 30 12:17:16:
AAA/AUTHOR/IPCP (3572380713) found list "default" Jan 30 12:17:16: AAA/AUTHOR/IPCP: Vil
(3572380713) Method=TACACS+ Jan 30 12:17:16: AAA/AUTHOR/TAC+: (3572380713):

```
user=janedoe@rtp.cisco.com Jan 30 12:17:16: AAA/AUTHOR/TAC+: (3572380713): send AV service=ppp
Jan 30 12:17:16: AAA/AUTHOR/TAC+: (3572380713): send AV protocol=ip Jan 30 12:17:16:
AAA/AUTHOR/TAC+: (3572380713): send AV addr*10.6.1.1 Jan 30 12:17:17: TAC+: (3572380713):
received author response status = PASS_ADD Jan 30 12:17:17: AAA/AUTHOR (3572380713): Post
authorization status = PASS_ADD Jan 30 12:17:17: Vi1 AAA/AUTHOR/IPCP: Processing AV service=ppp
Jan 30 12:17:17: Vi1 AAA/AUTHOR/IPCP: Processing AV protocol=ip Jan 30 12:17:17: Vi1
AAA/AUTHOR/IPCP: Processing AV addr*10.6.1.1 Jan 30 12:17:17: Vi1 AAA/AUTHOR/IPCP: Authorization
succeeded Jan 30 12:17:17: Vi1 AAA/AUTHOR/IPCP: Done. Her address 10.6.1.1, we want 10.6.1.1
LNS#
```

[Enregistrements des comptes LNS](#)

C'est sur le serveur LNS TACACS+.

```
Sat Jan 30 05:27:01 1999 10.31.1.56 janedoe@rtp.cisco.com
Virtual-Access1 unknown
start task_id=4 start_time=917700054 timezone=UTC service=ppp
```

```
Sat Jan 30 05:27:27 1999 10.31.1.56 janedoe@rtp.cisco.com
Virtual-Access1 unknown
stop task_id=4 start_time=917700054 timezone=UTC service=ppp
protocol=ip addr=10.6.1.1 disc-cause=2 disc-cause-ext=1011
pre-bytes-in=0 pre-bytes-out=8
pre-paks-in=0 pre-paks-out=2 bytes_in=862 bytes_out=142
paks_in=19 paks_out=8 pre-session-time=1
```

[Dépannez](#)

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

[Dépannage des commandes](#)

Remarque: Avant d'exécuter les commandes **debug**, référez-vous à la section **Informations importantes sur les commandes Debug**.

- **debug aaa authentication** — Affiche des informations sur l'authentification AAA/TACACS+.
- **autorisation de debug aaa** — Affiche des informations sur l'autorisation AAA/TACACS+.
- **debug aaa accounting** — Affiche des informations sur des événements imputables comme ils se produisent. L'information affichée par cette commande est indépendant du protocole de traçabilité utilisé pour virer l'information de comptabilité sur un serveur.
- **mettez au point tacacs+** — Affiche les informations de débogage détaillées associées avec TACACS+.
- **debug vtemplate** — Les informations de clonage d'affichages pour une interface d'accès virtuelle du temps où elle est copiée d'un modèle virtuel au temps l'interface d'accès virtuelle descend quand l'appel finit.
- **erreur de debug vpdn** — Affiche les erreurs qui empêchent un tunnel de PPP d'être établi ou les erreurs qui causent un tunnel établi d'être fermé.
- **événements de debug vpdn** — Affiche des messages au sujet des événements qui font partie d'établissement normal de tunnel de PPP ou arrêt.
- **debug vpdn l2x-errors** — Les affichages posent 2 erreurs de protocole qui empêchent l'établissement de la couche 2 ou empêchent son fonctionnement normal.
- **debug vpdn l2x-events** — Affiche des messages au sujet des événements qui font partie d'établissement normal de tunnel de PPP ou arrêt pour la couche 2.

Sortie de débogage

Bon debug de routeur de LAC

```
LAC#show debug General OS: AAA Authentication debugging is on AAA Authorization debugging is on
AAA Accounting debugging is on VPN: L2X protocol events debugging is on L2X protocol errors
debugging is on VPDN events debugging is on VPDN errors debugging is on VTEMPLATE: Virtual
Template debugging is on LAC# Jan 30 12:17:09: As1 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
20:03:18: %LINK-3-UPDOWN: Interface Async1, changed state to up Jan 30 12:17:09: As1 VPDN:
Looking for tunnel -- rtp.cisco.com -- Jan 30 12:17:09: AAA: parse name=Async1 idb type=10 tty=1
Jan 30 12:17:09: AAA: name=Async1 flags=0x11 type=4 shelf=0 slot=0 adapter=0 port=1 channel=0
Jan 30 12:17:09: AAA/AUTHEN: create_user (0x278B90) user='rtp.cisco.com' ruser='' port='Async1'
rem_addr='' authen_type=NONE service=LOGIN priv=0 Jan 30 12:17:09: AAA/AUTHOR/VPDN (898425447):
Port='Async1' list='default' service=NET Jan 30 12:17:09: AAA/AUTHOR/VPDN: (898425447)
user='rtp.cisco.com' Jan 30 12:17:09: AAA/AUTHOR/VPDN: (898425447) send AV service=ppp Jan 30
12:17:09: AAA/AUTHOR/VPDN: (898425447) send AV protocol=vpdn Jan 30 12:17:09: AAA/AUTHOR/VPDN
(898425447) found list "default" Jan 30 12:17:09: AAA/AUTHOR/VPDN: (898425447) Method=TACACS+
Jan 30 12:17:09: AAA/AUTHOR/TAC+: (898425447): user=rtp.cisco.com Jan 30 12:17:09:
AAA/AUTHOR/TAC+: (898425447): send AV service=ppp Jan 30 12:17:09: AAA/AUTHOR/TAC+: (898425447):
send AV protocol=vpdn Jan 30 12:17:09: TAC+: (898425447): received author response status =
PASS_ADD Jan 30 12:17:09: AAA/AUTHOR (898425447): Post authorization status = PASS_ADD Jan 30
12:17:09: AAA/AUTHOR/VPDN: Processing AV service=ppp Jan 30 12:17:09: AAA/AUTHOR/VPDN:
Processing AV protocol=vpdn Jan 30 12:17:09: AAA/AUTHOR/VPDN: Processing AV tunnel-type=l2tp Jan
30 12:17:09: AAA/AUTHOR/VPDN: Processing AV tunnel-id=rtp_tunnel Jan 30 12:17:09:
AAA/AUTHOR/VPDN: Processing AV ip-addresses=10.31.1.56 Jan 30 12:17:09: As1 VPDN: Get tunnel
info for rtp.cisco.com with LAC rtp_tunnel, IP 10.31.1.56 Jan 30 12:17:09: AAA/AUTHEN: free_user
(0x278B90) user='rtp.cisco.com' ruser='' port='Async1' rem_addr='' authen_type=NONE
service=LOGIN priv=0 Jan 30 12:17:09: As1 VPDN: Forward to address 10.31.1.56 Jan 30 12:17:09:
As1 VPDN: Forwarding... Jan 30 12:17:09: AAA: parse name=Async1 idb type=10 tty=1 Jan 30
12:17:09: AAA: name=Async1 flags=0x11 type=4 shelf=0 slot=0 adapter=0 port=1 channel=0 Jan 30
12:17:09: AAA/AUTHEN: create_user (0x22CDEC) user='janedoe@rtp.cisco.com' ruser='' port='Async1'
rem_addr='async' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:09: As1 VPDN: Bind interface
direction=1 Jan 30 12:17:09: Tnl/Cl 74/1 L2TP: Session FS enabled Jan 30 12:17:09: Tnl/Cl 74/1
L2TP: Session state change from idle to wait-for-tunnel Jan 30 12:17:09: As1 74/1 L2TP: Create
session Jan 30 12:17:09: Tnl 74 L2TP: SM State idle Jan 30 12:17:09: Tnl 74 L2TP: O SCCRQ Jan 30
12:17:09: Tnl 74 L2TP: Tunnel state change from idle to wait-ctl-reply Jan 30 12:17:09: Tnl 74
L2TP: SM State wait-ctl-reply Jan 30 12:17:09: As1 VPDN: janedoe@rtp.cisco.com is forwarded Jan
30 12:17:10: Tnl 74 L2TP: I SCCRQ from ABCDE Jan 30 12:17:10: Tnl 74 L2TP: Got a challenge from
remote peer, ABCDE Jan 30 12:17:10: AAA: parse name= idb type=-1 tty=-1 Jan 30 12:17:10:
AAA/AUTHEN: create_user (0x23232C) user='rtp_tunnel' ruser='' port='' rem_addr=''
authen_type=CHAP service=PPP priv=1 Jan 30 12:17:10: AAA/AUTHEN/START (1598999635): port=''
list='default' action=SENDAUTH service=PPP Jan 30 12:17:10: AAA/AUTHEN/START (1598999635): found
list default Jan 30 12:17:10: AAA/AUTHEN (1598999635): status = UNKNOWN Jan 30 12:17:10:
AAA/AUTHEN/START (1598999635): Method=TACACS+ Jan 30 12:17:10: TAC+: send AUTHEN/START packet
ver=193 id=1598999635 Jan 30 12:17:10: TAC+: ver=192 id=1598999635 received AUTHEN status =
ERROR Jan 30 12:17:10: AAA: parse name= idb type=-1 tty=-1 Jan 30 12:17:10: AAA/AUTHEN:
create_user (0x232470) user='rtp_tunnel' ruser='' port='' rem_addr='' authen_type=CHAP
service=PPP priv=1 Jan 30 12:17:10: TAC+: ver=192 id=3400389836 received AUTHEN status = PASS
Jan 30 12:17:10: AAA/AUTHEN: free_user (0x232470) user='rtp_tunnel' ruser='' port='' rem_addr=''
authen_type=CHAP service=PPP priv=1 Jan 30 12:17:10: AAA/AUTHEN (1598999635): status = PASS Jan
30 12:17:10: AAA/AUTHEN: free_user (0x23232C) user='rtp_tunnel' ruser='' port='' rem_addr=''
authen_type=CHAP service=PPP priv=1 Jan 30 12:17:10: Tnl 74 L2TP: Got a response from remote
peer, ABCDE Jan 30 12:17:10: AAA: parse name= idb type=-1 tty=-1 Jan 30 12:17:10: AAA/AUTHEN:
create_user (0x22FBA4) user='rtp_tunnel' ruser='' port='' rem_addr='' authen_type=CHAP
service=PPP priv=1 Jan 30 12:17:10: AAA/AUTHEN/START (2964849625): port='' list='default'
action=SENDAUTH service=PPP Jan 30 12:17:10: AAA/AUTHEN/START (2964849625): found list default
Jan 30 12:17:10: AAA/AUTHEN (2964849625): status = UNKNOWN Jan 30 12:17:10: AAA/AUTHEN/START
(2964849625): Method=TACACS+ Jan 30 12:17:10: TAC+: send AUTHEN/START packet ver=193
id=2964849625 20:03:20: %LINEPROTO-5-UPDOWN: Line protocol on Interface Async1, changed state to
up Jan 30 12:17:11: TAC+: ver=192 id=2964849625 received AUTHEN status = ERROR Jan 30 12:17:11:
AAA: parse name= idb type=-1 tty=-1 Jan 30 12:17:11: AAA/AUTHEN: create_user (0x22FC8C)
user='rtp_tunnel' ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30
```

```
12:17:11: As1 74/1 L2TP: Discarding data packet because tunnel is not open Jan 30 12:17:11: As1
74/1 L2TP: Discarding data packet because tunnel is not open Jan 30 12:17:11: TAC+: ver=192
id=1474818051 received AUTHEN status = PASS Jan 30 12:17:11: AAA/AUTHEN: free_user (0x22FC8C)
user='rtp_tunnel' ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30
12:17:11: AAA/AUTHEN (2964849625): status = PASS Jan 30 12:17:11: AAA/AUTHEN: free_user
(0x22FBA4) user='rtp_tunnel' ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1
Jan 30 12:17:11: Tnl 74 L2TP: Tunnel Authentication success Jan 30 12:17:11: Tnl 74 L2TP: Tunnel
state change from wait-ctl-reply to established Jan 30 12:17:11: Tnl 74 L2TP: O SCCCN to ABCDE
tnlid 56 Jan 30 12:17:11: Tnl 74 L2TP: SM State established Jan 30 12:17:11: As1 74/1 L2TP: O
ICRQ to ABCDE 56/0 Jan 30 12:17:11: As1 74/1 L2TP: Session state change from wait-for-tunnel to
wait-reply Jan 30 12:17:11: Tnl 74 L2TP: Dropping old CM, Ns 0, expected 1 Jan 30 12:17:11: As1
74/1 L2TP: O ICCN to ABCDE 56/1 Jan 30 12:17:11: As1 74/1 L2TP: Session state change from wait-
reply to established LAC#
```

Bon debug de routeur LNS

```
LNS#show debug General OS: AAA Authentication debugging is on AAA Authorization debugging is on
AAA Accounting debugging is on VPN: L2X protocol events debugging is on L2X protocol errors
debugging is on VPDN events debugging is on VPDN errors debugging is on VTEMPLATE: Virtual
Template debugging is on LNS# Jan 30 12:17:09: L2TP: I SCCRQ from rtp_tunnel tnl 74 Jan 30
12:17:09: Tnl 56 L2TP: New tunnel created for remote rtp_tunnel, address 10.31.1.144 Jan 30
12:17:09: Tnl 56 L2TP: Got a challenge in SCCRQ, rtp_tunnel Jan 30 12:17:09: AAA: parse name=
idb type=-1 tty=-1 Jan 30 12:17:09: AAA/AUTHEN: create_user (0x21F6D0) user='ABCDE' ruser=''
port='' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:09: AAA/AUTHEN/START
(3194595626): port='' list='default' action=SENDAUTH service=PPP Jan 30 12:17:09:
AAA/AUTHEN/START (3194595626): found list default Jan 30 12:17:09: AAA/AUTHEN (3194595626):
status = UNKNOWN Jan 30 12:17:09: AAA/AUTHEN/START (3194595626): Method=TACACS+ Jan 30 12:17:09:
TAC+: send AUTHEN/START packet ver=193 id=3194595626 Jan 30 12:17:09: TAC+: ver=192
id=3194595626 received AUTHEN status = ERROR Jan 30 12:17:09: AAA: parse name= idb type=-1 tty=-
1 Jan 30 12:17:09: AAA/AUTHEN: create_user (0x2281AC) user='ABCDE' ruser='' port='' rem_addr=''
authen_type=CHAP service=PPP priv=1 Jan 30 12:17:09: TAC+: ver=192 id=3639011179 received AUTHEN
status = PASS Jan 30 12:17:09: AAA/AUTHEN: free_user (0x2281AC) user='ABCDE' ruser='' port=''
rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:09: AAA/AUTHEN (3194595626): status
= PASS Jan 30 12:17:09: AAA/AUTHEN: free_user (0x21F6D0) user='ABCDE' ruser='' port=''
rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:09: Tnl 56 L2TP: O SCCRP to
rtp_tunnel tnlid 74 Jan 30 12:17:09: Tnl 56 L2TP: Tunnel state change from idle to wait-ctl-
reply Jan 30 12:17:10: Tnl 56 L2TP: O Resend SCCRP, flg TLF, ver 2, len 152, tnl 74, cl 0, ns 0,
nr 1 Jan 30 12:17:10: Tnl 56 L2TP: I SCCCN from rtp_tunnel tnl 74 Jan 30 12:17:10: Tnl 56 L2TP:
Got a Challenge Response in SCCCN from rtp_tunnel Jan 30 12:17:10: AAA: parse name= idb type=-1
tty=-1 Jan 30 12:17:10: AAA/AUTHEN: create_user (0x227F3C) user='ABCDE' ruser='' port=''
rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:10: AAA/AUTHEN/STARTTranslating
"rtp.cisco.com" (4117701992): port='' list='default' action=SENDAUTH service=PPP Jan 30
12:17:10: AAA/AUTHEN/START (4117701992): found list default Jan 30 12:17:10: AAA/AUTHEN
(4117701992): status = UNKNOWN Jan 30 12:17:10: AAA/AUTHEN/START (4117701992): Method=TACACS+
Jan 30 12:17:10: TAC+: send AUTHEN/START packet ver=193 id=4117701992 Jan 30 12:17:11: TAC+:
ver=192 id=4117701992 received AUTHEN status = ERROR Jan 30 12:17:11: AAA: parse name= idb
type=-1 tty=-1 Jan 30 12:17:11: AAA/AUTHEN: create_user (0x228E68) user='ABCDE' ruser='' port=''
rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:11: TAC+: ver=192 id=2827432721
received AUTHEN status = PASS Jan 30 12:17:11: AAA/AUTHEN: free_user (0x228E68) user='ABCDE'
ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:11: AAA/AUTHEN
(4117701992): status = PASS Jan 30 12:17:11: AAA/AUTHEN: free_user (0x227F3C) user='ABCDE'
ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:11: Tnl 56 L2TP:
Tunnel Authentication success Jan 30 12:17:11: Tnl 56 L2TP: Tunnel state change from wait-ctl-
reply to established Jan 30 12:17:11: Tnl 56 L2TP: SM State established Jan 30 12:17:11: Tnl 56
L2TP: I ICRQ from rtp_tunnel tnl 74 Jan 30 12:17:11: Tnl/Cl 56/1 L2TP: Session FS enabled Jan 30
12:17:11: Tnl/Cl 56/1 L2TP: Session state change from idle to wait-for-tunnel Jan 30 12:17:11:
Tnl/Cl 56/1 L2TP: New session created Jan 30 12:17:11: Tnl/Cl 56/1 L2TP: O ICRP to rtp_tunnel
74/1 Jan 30 12:17:11: Tnl/Cl 56/1 L2TP: Session state change from wait-for-tunnel to wait-
connect Jan 30 12:17:11: Tnl/Cl 56/1 L2TP: I ICCN from rtp_tunnel tnl 74, cl 1 Jan 30 12:17:11:
Tnl/Cl 56/1 L2TP: Session state change from wait-connect to established Jan 30 12:17:11: Vil
VTEMPLATE: Reuse Vil, recycle queue size 0 Jan 30 12:17:11: Vil VTEMPLATE: Hardware address
00e0.1e68.942c Jan 30 12:17:11: Vil VPDN: Virtual interface created for janedoe@rtp.cisco.com
Jan 30 12:17:11: Vil VPDN: Set to Async interface Jan 30 12:17:11: Vil VPDN: Clone from
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Vtemplate 1 filterPPP=0 blocking Jan 30 12:17:11: Vi1 VTEMPLATE: Has a new cloneblk vtemplate, now it has vtemplate Jan 30 12:17:11: Vi1 VTEMPLATE: ***** CLONE VACCESS1 ***** Jan 30 12:17:11: Vi1 VTEMPLATE: Clone from Virtual-Templatel interface Virtual-Access1 default ip address no ip address encap ppp ip unnumbered Ethernet0 peer default ip address pool default ppp authentication chap ip unnum ethernet0 peer def ip address pool default ppp authen chap end Jan 30 12:17:12: janedoe@rtp.cisco.com 56/1 L2TP: Session with no hwidb 20:12:14: %LINK-3-UPDOWN: Interface Virtual-Access1, changed state to up Jan 30 12:17:13: Vi1 AAA/AUTHOR/FSM: (0): LCP succeeds trivially Jan 30 12:17:13: Vi1 VPDN: Bind interface direction=2 Jan 30 12:17:13: Vi1 VPDN: PPP LCP accepted rcv CONFACK Jan 30 12:17:13: Vi1 VPDN: PPP LCP accepted sent CONFACK Jan 30 12:17:13: Vi1 L2X: Discarding packet because of no mid/session Jan 30 12:17:13: AAA: parse name=Virtual-Access1 idb type=21 tty=-1 Jan 30 12:17:13: AAA: name=Virtual-Access1 flags=0x11 type=5 shelf=0 slot=0 adapter=0 port=1 channel=0 Jan 30 12:17:13: AAA/AUTHEN: create_user (0x1F5100) user='janedoe@rtp.cisco.com' ruser='' port='Virtual-Access1' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:13: AAA/AUTHEN/START (562517969): port='Virtual-Access1' list='' action=LOGIN service=PPP Jan 30 12:17:13: AAA/AUTHEN/START (562517969): using "default" list Jan 30 12:17:13: AAA/AUTHEN (562517969): status = UNKNOWN Jan 30 12:17:13: AAA/AUTHEN/START (562517969): Method=TACACS+ Jan 30 12:17:13: TAC+: send AUTHEN/START packet ver=193 id=562517969 Jan 30 12:17:14: TAC+: ver=192 id=562517969 received AUTHEN status = GETPASS Jan 30 12:17:14: AAA: parse name=Virtual-Access1 idb type=-1 tty=-1 Jan 30 12:17:14: AAA: name=Virtual-Access1 flags=0x11 type=6 shelf=0 slot=0 adapter=0 port=1 channel=0 Jan 30 12:17:14: AAA/AUTHEN: create_user (0x1F5270) user='janedoe@rtp.cisco.com' ruser='' port='Virtual-Access1' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:14: TAC+: ver=192 id=2384902384 received AUTHEN status = PASS Jan 30 12:17:14: AAA/AUTHEN: free_user (0x1F5270) user='janedoe@rtp.cisco.com' ruser='' port='Virtual-Access1' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:14: AAA/AUTHEN (562517969): status = PASS Jan 30 12:17:14: Vi1 AAA/AUTHOR/LCP: Authorize LCP Jan 30 12:17:14: AAA/AUTHOR/LCP Vi1 (413543389): Port='Virtual-Access1' list='' service=NET Jan 30 12:17:14: AAA/AUTHOR/LCP: Vi1 (413543389) user='janedoe@rtp.cisco.com' Jan 30 12:17:14: AAA/AUTHOR/LCP: Vi1 (413543389) send AV service=ppp Jan 30 12:17:14: AAA/AUTHOR/LCP: Vi1 (413543389) send AV protocol=lcp Jan 30 12:17:14: AAA/AUTHOR/LCP (413543389) found list "default" Jan 30 12:17:14: AAA/AUTHOR/LCP: Vi1 (413543389) Method=TACACS+ Jan 30 12:17:14: AAA/AUTHOR/TAC+: (413543389): user=janedoe@rtp.cisco.com Jan 30 12:17:14: AAA/AUTHOR/TAC+: (413543389): send AV service=ppp Jan 30 12:17:14: AAA/AUTHOR/TAC+: (413543389): send AV protocol=lcp Jan 30 12:17:14: TAC+: (413543389): received author response status = PASS_ADD Jan 30 12:17:14: AAA/AUTHOR (413543389): Post authorization status = PASS_ADD Jan 30 12:17:14: AAA/ACCT/NET/START User janedoe@rtp.cisco.com, Port Virtual-Access1, List "" Jan 30 12:17:14: AAA/ACCT/NET: Found list "default" Jan 30 12:17:14: Vi1 AAA/AUTHOR/FSM: (0): Can we start IPCP? Jan 30 12:17:14: AAA/AUTHOR/FSM Vi1 (1358526470): Port='Virtual-Access1' list='' service=NET Jan 30 12:17:14: AAA/AUTHOR/FSM: Vi1 (1358526470) user='janedoe@rtp.cisco.com' Jan 30 12:17:14: AAA/AUTHOR/FSM: Vi1 (1358526470) send AV service=ppp Jan 30 12:17:14: AAA/AUTHOR/FSM: Vi1 (1358526470) send AV protocol=ip Jan 30 12:17:14: AAA/AUTHOR/FSM (1358526470) found list "default" Jan 30 12:17:14: AAA/AUTHOR/FSM: Vi1 (1358526470) Method=TACACS+ Jan 30 12:17:14: AAA/AUTHOR/TAC+: (1358526470): user=janedoe@rtp.cisco.com Jan 30 12:17:14: AAA/AUTHOR/TAC+: (1358526470): send AV service=ppp Jan 30 12:17:14: AAA/AUTHOR/TAC+: (1358526470): send AV protocol=ip Jan 30 12:17:14: TAC+: (1358526470): received author response status = PASS_ADD Jan 30 12:17:14: AAA/AUTHOR (1358526470): Post authorization status = PASS_ADD Jan 30 12:17:14: Vi1 AAA/AUTHOR/FSM: We can start IPCP Jan 30 12:17:14: TAC+: (1442592025): received acct response status = UNKNOWN 20:12:16: %LINEPROTO-5-UPDOWN: Line protocol on Interface Virtual-Access1, changed state to up Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 0.0.0.0 Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCP: Processing AV service=ppp Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCP: Processing AV protocol=ip Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCP: Authorization succeeded Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 0.0.0.0 Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 10.6.1.1 Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCP: Processing AV service=ppp Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCP: Processing AV protocol=ip Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCP: Authorization succeeded Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 10.6.1.1 Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCP: Start. Her address 10.6.1.1, we want 10.6.1.1 Jan 30 12:17:16: AAA/AUTHOR/IPCP Vi1 (3572380713): Port='Virtual-Access1' list='' service=NET Jan 30 12:17:16: AAA/AUTHOR/IPCP: Vi1 (3572380713) user='janedoe@rtp.cisco.com' Jan 30 12:17:16: AAA/AUTHOR/IPCP: Vi1 (3572380713) send AV service=ppp Jan 30 12:17:16: AAA/AUTHOR/IPCP: Vi1 (3572380713) send AV protocol=ip Jan 30 12:17:16: AAA/AUTHOR/IPCP: Vi1 (3572380713) send AV addr*10.6.1.1 Jan 30 12:17:16: AAA/AUTHOR/IPCP (3572380713) found list "default" Jan 30 12:17:16: AAA/AUTHOR/IPCP: Vi1 (3572380713) Method=TACACS+ Jan 30 12:17:16: AAA/AUTHOR/TAC+: (3572380713): user=janedoe@rtp.cisco.com Jan 30 12:17:16: AAA/AUTHOR/TAC+: (3572380713): send AV service=ppp

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Jan 30 12:17:16: AAA/AUTHOR/TAC+: (3572380713): send AV protocol=ip Jan 30 12:17:16:
AAA/AUTHOR/TAC+: (3572380713): send AV addr*10.6.1.1 Jan 30 12:17:17: TAC+: (3572380713):
received author response status = PASS_ADD Jan 30 12:17:17: AAA/AUTHOR (3572380713): Post
authorization status = PASS_ADD Jan 30 12:17:17: Vi1 AAA/AUTHOR/IPCP: Processing AV service=ppp
Jan 30 12:17:17: Vi1 AAA/AUTHOR/IPCP: Processing AV protocol=ip Jan 30 12:17:17: Vi1
AAA/AUTHOR/IPCP: Processing AV addr*10.6.1.1 Jan 30 12:17:17: Vi1 AAA/AUTHOR/IPCP: Authorization
succeeded Jan 30 12:17:17: Vi1 AAA/AUTHOR/IPCP: Done. Her address 10.6.1.1, we want 10.6.1.1
LNS#
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- [Page d'assistance Cisco Secure UNIX](#)
- [Page de support TACACS/TACACS+](#)
- [TACACS+ dans la documentation Cisco IOS](#)
- [Cisco Secure ACS pour la page d'assistance de Windows](#)
- [Support technique - Cisco Systems](#)