

Comment configurer l'authentification RADIUS pour les réseaux VPDN

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[Introduction](#)

Un réseau privé virtuel à accès commuté (VPDN) permet à un réseau privé en service de se répartir sur des serveurs à accès distant (définis comme concentrateur L2TP Access [LAC]). Quand un client de Protocole point à point (PPP) introduit dans un LAC, le LAC détermine qu'il devrait expédier cette session PPP en fonction à un serveur de réseau L2TP (LNS) pour ce client, qui alors authentifie l'utilisateur et commence la négociation PPP. Une fois que l'installation de PPP s'est terminée, toutes les trames sont envoyées par le LAC au client et au LNS.

Cette configuration d'échantillon te permet pour utiliser l'authentification de RAYON avec VPDNs. Le LAC questionne le serveur de RAYON, détermine quel LNS pour expédier l'utilisateur, et établit le tunnel approprié.

Pour plus d'informations sur VPDNs référez-vous [compréhension derrière VPDN](#).

[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 :

- Version 2.x.x et ultérieures ou Merit RADIUS d'UNIX de Cisco Secure ACS
- Version de logiciel 11.2 et ultérieures de Cisco IOS®

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](#).

Informations générales

Dans cet exemple, l'utilisateur est « jsmith@hp.com » avec le mot de passe « test ». Quand « jsmith@hp.com » introduit dans le routeur de l'ISP, le routeur de l'ISP envoie l'ID utilisateur « hp.com » au serveur de RAYON ISP. Le serveur ISP trouve l'ID utilisateur « hp.com » et envoie son tunnel-id (« fournisseur d'accès internet »), l'adresse IP du routeur de la passerelle domestique (HGW) (10.31.1.50), le mot de passe de serveur d'accès à distance (NAS) (« bonjour »), et le mot de passe de la passerelle (« là ») de nouveau au routeur de l'ISP.

Le routeur de l'ISP initie un tunnel et connecte à 10.31.1.50 HGW le routeur, qui authentifie l'utilisateur « HP-gw » localement et en avant le mot de passe pour l'ID utilisateur « fournisseur d'accès internet » (« bonjour ») au serveur de RAYON HGW. Une fois que les tunnels est établis, le routeur de l'ISP en avant au routeur HGW, et l'ID utilisateur ("jsmith@hp.com ") et le mot de passe (« test ») de l'utilisateur se connectant cet utilisateur est authentifié sur le serveur HGW. Dans cet exemple, le routeur de l'ISP s'appelle le « koala » et le routeur HGW s'appelle les « sneetches ».

Configurez

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

Diagramme du réseau

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

Configurations du serveur

Configuration de Merit RADIUS

```
!--- The RADIUS Server must support Cisco av-pairs. !--- This user is on the ISP RADIUS server.
```

```
hp.com Password = "cisco" Service-Type = Outbound-User, cisco-avpair = "vpdn:tunnel-id=isp",
cisco-avpair = "vpdn:ip-addresses=10.31.1.50", cisco-avpair = "vpdn:nas-password=hello", cisco-
avpair = "vpdn:gw-password=there" !--- The next two users are on the HGW Server. isp Password =
"hello", Service-Type = Framed, Framed-Protocol = PPP jsmith@hp.com Password = "test", Service-
Type = Framed, Framed-Protocol = PPP
```

Configuration du Cisco Secure ACS UNIX 2.x.x

```
!--- This user is on the ISP server. # ./ViewProfile -p 9900 -u hp.com User Profile Information
user = hp.com{ profile_id = 86 profile_cycle = 1 RADIUS=Cisco { check_items= { 2="cisco" }
reply_attributes= { 9,1="vpdn:tunnel-id=isp" 9,1="vpdn:ip-addresses=10.31.1.50" 9,1="vpdn:NAS-
password=hello" 9,1="vpdn:gw-password=there" } } } !--- The next two users are on the HGW
Server. # ./ViewProfile -p 9900 -u isp User Profile Information user = isp{ profile_id = 70
profile_cycle = 1 RADIUS=Cisco { check_items= { 2="hello" } reply_attributes= { 6=2 7=1 } } #
./ViewProfile -p 9900 -u jsmith@hp.com User Profile Information user = jsmith@hp.com{ profile_id
= 84 profile_cycle = 1 RADIUS=Cisco { check_items= { 2="test" } reply_attributes= { 6=2 7=1 } }
}
```

Configurations de routeur

Configuration de routeur de l'ISP

```
koala#show running config Building configuration...
Current configuration: ! version 11.3 no service
password-encryption service udp-small-servers service
tcp-small-servers ! hostname koala ! aaa new-model aaa
authentication ppp default if-needed RADIUS aaa
authorization network default RADIUS aaa accounting
network default start-stop RADIUS enable password ww !
vpdn enable !--- VPDN is enabled. ! interface Ethernet0
ip address 10.31.1.5 255.255.255.0 ! interface Serial0
shutdown ! interface Serial1 shutdown ! interface Async1
ip unnumbered Ethernet0 encapsulation ppp async mode
dedicated no peer default ip address no cdp enable ppp
authentication chap ! ip default-gateway 10.31.1.1 no ip
classless ip route 0.0.0.0 0.0.0.0 10.31.1.1 logging
trap debugging logging 171.68.118.101 snmp-server
community public RW snmp-server enable traps config
snmp-server host 171.68.118.105 traps public RADIUS-
server host 171.68.120.194 auth-port 1645 acct-port 1646
RADIUS-server key cisco !--- Specify RADIUS server
information on the NAS. ! line con 0 password WW line 1
password WW autoselect ppp modem InOut transport input
all stopbits 1 speed 115200 flowcontrol hardware line 2
16 autoselect during-login line aux 0 line vty 0 4 exec-
timeout 0 0 password WW ! end
```

Configuration de routeur HGW

```
Sneetches#show running config Building configuration...
Current configuration: ! version 11.3 no service
password-encryption service udp-small-servers service
tcp-small-servers ! hostname Sneetches ! aaa new-model
aaa authentication ppp default RADIUS local aaa
authorization network default RADIUS local aaa
accounting network default start-stop RADIUS ! username
hp-gw password 0 there username isp password 0 hello
vpdn enable !--- Enable VPDN. vpdn incoming isp hp-gw
virtual-template 1 !--- Specify the remote host (the
network access server) !--- the local name (the home
gateway) to use for authenticating !--- and the virtual
template to use. ! interface Ethernet0 ip address
10.31.1.50 255.255.255.0 ! interface Ethernet1 no ip
address shutdown ! interface Virtual-Template1 !---
```

```
Create a virtual template interface. ip unnumbered
Ethernet0 !--- Un-number the Virtual interface to an
available LAN interface. peer default ip address pool
async !--- Use the pool "async" to assign the IP address
for incoming connections. ppp authentication chap !---
Use CHAP authentication for the incoming connection. !
interface Serial0 shutdown ! interface Serial1 shutdown
! ip local pool async 1.1.1.1 1.1.1.6 ip default-gateway
10.31.1.1 no ip classless ip route 0.0.0.0 0.0.0.0
10.31.1.1 RADIUS-server host 171.68.118.101 auth-port
1645 acct-port 1646 RADIUS-server timeout 20 RADIUS-
server key cisco !--- Specify RADIUS server information
on the NAS. ! line con 0 exec-timeout 3600 0 line aux 0
line vty 0 4 password WW ! end
```

Vérifiez

Aucune procédure de vérification n'est disponible pour cette configuration.

Dépannez

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

Dépannage des commandes

certaines commandes show sont prises en charge par l'outil Interpréteur de sortie, qui vous permet d'afficher une analyse de la sortie de la commande show.

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 du Terminal Access Controller Access Control System Plus D.C.A. (TACACS+).
- **autorisation de debug aaa** — Affiche des informations sur l'autorisation AAA/TACACS+.
- **debug ppp negotiation** — Paquets PPP d'affichages transmis pendant le startup de PPP, où des options PPP sont négociées.
- **debug radius** — Affiche les informations de débogage détaillées associées avec le RAYON.
- **erreurs 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 l2f-errors** — Les affichages posent 2 erreurs de protocole qui empêchent l'établissement de la couche 2 ou empêchent son fonctionnement normal.
- **debug vpdn l2f-events** — Affiche des messages au sujet des événements qui font partie d'établissement normal de tunnel de PPP ou arrêt pour la couche 2.
- **debug vpdn l2f-packets** — Messages d'affichages au sujet des en-têtes et d'état de protocole de transfert de couche 2.
- **paquets de debug vpdn** — Les affichages posent 2 erreurs de protocole et événements de tunnel qui sont une partie de l'établissement normal d'un tunnel ou un arrêt pour VPDNs.
- **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.

Sortie de débogage

Bon debug de routeur de l'ISP

```
koala#show debug General OS: AAA Authentication debugging is on AAA Authorization debugging is on AAA Accounting debugging is on VPN: VPN events debugging is on VPN errors debugging is on RADIUS protocol debugging is on koala# %LINK-3-UPDOWN: Interface Async1, changed state to up 17:28:19: VPDN: Looking for tunnel -- hp.com -- 17:28:19: AAA/AUTHEN: create_user (0x15D28C) user='hp.com' ruser='' port='Async1' rem_addr='' authen_type=NONE service=LOGIN priv=0 17:28:19: AAA/AUTHOR/VPDN (982041598): Port='Async1' list='default' service=NET 17:28:19: AAA/AUTHOR/VPDN: (982041598) user='hp.com' 17:28:19: AAA/AUTHOR/VPDN: (982041598) send AV service=ppp 17:28:19: AAA/AUTHOR/VPDN: (982041598) send AV protocol=vpdn 17:28:19: AAA/AUTHOR/VPDN (982041598) found list "default" 17:28:19: AAA/AUTHOR/VPDN: (982041598) Method=RADIUS 17:28:19: RADIUS: authenticating to get author data 17:28:19: RADIUS: Computed extended port value 0:1: 17:28:19: RADIUS: Initial Transmit id 62 171.68.120.194:1645, Access-Request, len 70 17:28:19: Attribute 4 6 0A1F0105 17:28:19: Attribute 5 6 00000001 17:28:19: Attribute 61 6 00000000 17:28:19: Attribute 1 8 68702E63 17:28:19: Attribute 2 18 8070079C 17:28:19: Attribute 6 6 00000005 17:28:19: RADIUS: Received from id 62 171.68.120.194:1645, Access-Accept, len 143 17:28:19: Attribute 26 26 0000000901147670 17:28:19: Attribute 26 36 00000009011E7670 17:28:19: Attribute 26 31 0000000901197670 17:28:19: Attribute 26 30 0000000901187670 !--- These messages can be decrypted using the OI tool. !--- As of Cisco IOS Software Release 12.2(11)T, !--- the output was changed to be readable. 17:28:19: RADIUS: saved authorization data for user 15D28C at 10EE74 17:28:19: RADIUS: cisco AVPair "vpdn:tunnel-id=isp" 17:28:19: RADIUS: cisco AVPair "vpdn:ip-addresses=10.31.1.50" 17:28:19: RADIUS: cisco AVPair "vpdn:nas-password=hello" 17:28:19: RADIUS: cisco AVPair "vpdn:gw-password=there" 17:28:19: AAA/AUTHOR (982041598): Post authorization status = PASS_ADD 17:28:19: AAA/AUTHOR/VPDN: Processing AV service=ppp 17:28:19: AAA/AUTHOR/VPDN: Processing AV protocol=vpdn 17:28:19: AAA/AUTHOR/VPDN: Processing AV tunnel-id=isp 17:28:19: AAA/AUTHOR/VPDN: Processing AV ip-addresses=10.31.1.50 17:28:19: AAA/AUTHOR/VPDN: Processing AV nas-password=hello 17:28:19: AAA/AUTHOR/VPDN: Processing AV gw-password=there 17:28:19: VPDN: Get tunnel info with NAS isp GW hp.com, IP 10.31.1.50 !--- The RADIUS server returns the attributes the !--- NAS should use for the tunnel. !--- Tunnel-id is "ISP" and the IP address of HGW is 10.31.1.50. 17:28:19: AAA/AUTHEN: free_user (0x15D28C) user='hp.com' ruser='' port='Async1' rem_addr='' authen_type=NONE service=LOGIN priv=0 17:28:19: VPDN: Forward to address 10.31.1.50 17:28:19: As1 VPDN: Forwarding... 17:28:19: AAA/AUTHEN: create_user (0x15D334) user='jsmith@hp.com' ruser='' port='Async1' rem_addr='async' authen_type=CHAP service=PPP priv=1 17:28:19: As1 VPDN: Bind interface direction=1 17:28:19: As1 VPDN: jsmith@hp.com is forwarded 17:28:19: AAA/ACCT/NET/START User jsmith@hp.com, Port Async1, List "" 17:28:19: AAA/ACCT/NET: Found list "default" 17:28:19: RADIUS: Computed extended port value 0:1: 17:28:19: RADIUS: Initial Transmit id 63 171.68.120.194:1646, Accounting-Request, len 93 17:28:19: Attribute 4 6 0A1F0105 17:28:19: Attribute 5 6 00000001 17:28:19: Attribute 61 6 00000000 17:28:19: Attribute 1 15 6A736D69 17:28:19: Attribute 40 6 00000001 17:28:19: Attribute 45 6 00000002 17:28:19: Attribute 6 6 00000002 17:28:19: Attribute 44 10 30303030 17:28:19: Attribute 7 6 7670646E 17:28:19: Attribute 41 6 00000000 17:28:19: RADIUS: Received from id 63 171.68.120.194:1646, Accounting-response, len 20 %LINEPROTO-5-UPDOWN: Line protocol on Interface Async1, changed state to up koala# !--- The user finishes and disconnects. %LINEPROTO-5-UPDOWN: Line protocol on Interface Async1, changed state to down %LINK-5-CHANGED: Interface Async1, changed state to reset 17:28:48: As1 VPDN: Cleanup 17:28:48: As1 VPDN: Reset 17:28:48: As1 VPDN: Reset 17:28:48: As1 VPDN: Unbind interface 17:28:48: AAA/ACCT/NET/STOP User jsmith@hp.com, Port Async1: task_id=20 start_time=900759730 timezone=UTC service=vpdn disc-cause=2 disc-cause-ext=1011 pre-bytes-in=-226131998 pre-bytes-out=-1034130241 pre-paks-in=-63570 pre-paks-out=-64410 bytes_in=1999 bytes_out=364 paks_in=29 paks_out=12 pre-session-time=5 elapsed_time=29 data-rate=0 xmit-rate=0 17:28:48: RADIUS: Computed extended port value 0:1: 17:28:48: RADIUS: Initial Transmit id 64 171.68.120.194:1646, Accounting-Request, len 129 17:28:48: Attribute 4 6 0A1F0105 17:28:48: Attribute 5 6 00000001 17:28:48: Attribute 61 6 00000000 17:28:48: Attribute 1 15 6A736D69 17:28:48: Attribute 40 6 00000002 17:28:48: Attribute 45 6 00000002 17:28:48: Attribute 6 6 00000002 17:28:48: Attribute 44 10 30303030 17:28:48: Attribute 7 6 7670646E 17:28:48: Attribute 49 6 00000002 17:28:48: Attribute 42 6 000007CF 17:28:48: Attribute 43 6 0000016C 17:28:48: Attribute 47 6 0000001D 17:28:48: Attribute 48 6 0000000C 17:28:48: Attribute
```

```
46 6 0000001D 17:28:48: Attribute 41 6 00000000 17:28:48: RADIUS: Received from id 64
171.68.120.194:1646, Accounting-response, len 20 %LINK-3-UPDOWN: Interface Async1, changed state
to down 17:28:51: AAA/AUTHEN: free_user (0x15D334) user='jsmith@hp.com' ruser='' port='Async1'
rem_addr='async' authen_type=CHAP service=PPP priv=1 koala#
```

Debug de routeur HGW bon

```
Sneetches#show debug General OS: AAA Authentication debugging is on AAA Authorization debugging
is on AAA Accounting debugging is on VPN: VPN events debugging is on VPN errors debugging is on
RADIUS protocol debugging is on Sneetches# 17:28:21: AAA/AUTHEN: create_user (0x14A914)
user='hp-gw' ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 17:28:21:
AAA/AUTHEN/START (496523999): port='' list='default' action=SENAUTH service=PPP 17:28:21:
AAA/AUTHEN/START (496523999): found list default 17:28:21: AAA/AUTHEN/START (496523999):
Method=RADIUS 17:28:21: RADIUS: SENDPASS not supported (action=4) 17:28:21: AAA/AUTHEN
(496523999): status = ERROR 17:28:21: AAA/AUTHEN/START (496523999): Method=LOCAL 17:28:21:
AAA/AUTHEN (496523999): status = PASS 17:28:21: AAA/AUTHEN: free_user (0x14A914) user='hp-gw'
ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 17:28:21: AAA/AUTHEN:
create_user (0x14A914) user='isp' ruser='' port='' rem_addr='' authen_type=CHAP service=PPP
priv=1 17:28:21: AAA/AUTHEN/START (3095573082): port='' list='default' action=SENAUTH
service=PPP 17:28:21: AAA/AUTHEN/START (3095573082): found list default 17:28:21:
AAA/AUTHEN/START (3095573082): Method=RADIUS 17:28:21: RADIUS: SENDPASS not supported (action=4)
17:28:21: AAA/AUTHEN (3095573082): status = ERROR 17:28:21: AAA/AUTHEN/START (3095573082):
Method=LOCAL 17:28:21: AAA/AUTHEN (3095573082): status = PASS 17:28:21: AAA/AUTHEN: free_user
(0x14A914) user='isp' ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 17:28:21:
AAA/AUTHEN: create_user (0x14ADB4) user='isp' ruser='' port='' rem_addr='' authen_type=CHAP
service=PPP priv=1 17:28:21: AAA/AUTHEN/START (3506257139): port='' list='default' action=LOGIN
service=PPP 17:28:21: AAA/AUTHEN/START (3506257139): found list default 17:28:21:
AAA/AUTHEN/START (3506257139): Method=RADIUS 17:28:21: RADIUS: Initial Transmit id 53
171.68.118.101:1645, Access-Request, len 68 17:28:21: Attribute 4 6 0A1F0132 17:28:21: Attribute
61 6 00000000 17:28:21: Attribute 1 5 69737003 17:28:21: Attribute 3 19 10C82B7A 17:28:21:
Attribute 6 6 00000002 17:28:21: Attribute 7 6 00000001 17:28:21: RADIUS: Received from id 53
171.68.118.101:1645, Access-Accept, len 32 17:28:21: Attribute 6 6 00000002 17:28:21: Attribute
7 6 00000001 17:28:21: AAA/AUTHEN (3506257139): status = PASS 17:28:21: VPDN: Chap
authentication succeeded for isp 17:28:21: AAA/AUTHEN: free_user (0x14ADB4) user='isp' ruser=''
port='' rem_addr='' authen_type=CHAP service=PPP priv=1 17:28:21: Vil VPDN: Virtual interface
created for jsmith@hp.com 17:28:21: Vil VPDN: Set to Async interface 17:28:21: Vil VPDN: Clone
from Vtemplate 1 filterPPP=0 blocking %LINK-3-UPDOWN: Interface Virtual-Access1, changed state
to up 17:28:23: Vil VPDN: Bind interface direction=2 17:28:23: Vil VPDN: PPP LCP accepted sent &
rcv CONFACK 17:28:23: AAA/AUTHEN: create_user (0x143368) user='jsmith@hp.com' ruser=''
port='Virtual-Access1' rem_addr='async' authen_type=CHAP service=PPP priv=1 17:28:23:
AAA/AUTHEN/START (637397616): port='Virtual-Access1' list='' action=LOGIN service=PPP 17:28:23:
AAA/AUTHEN/START (637397616): using "default" list 17:28:23: AAA/AUTHEN/START (637397616):
Method=RADIUS 17:28:23: RADIUS: Computed extended port value 0:60100: 17:28:23: RADIUS: Initial
Transmit id 54 171.68.118.101:1645, Access-Request, len 78 17:28:23: Attribute 4 6 0A1F0132
17:28:23: Attribute 5 6 0000EAC4 17:28:23: Attribute 1 15 6A736D69 17:28:23: Attribute 3 19
186C2AC9 17:28:23: Attribute 6 6 00000002 17:28:23: Attribute 7 6 00000001 17:28:23: RADIUS:
Received from id 54 171.68.118.101:1645, Access-Accept, len 32 17:28:23: Attribute 6 6 00000002
17:28:23: Attribute 7 6 00000001 17:28:23: AAA/AUTHEN (637397616): status = PASS 17:28:23:
AAA/AUTHOR/LCP Vil: Authorize LCP 17:28:23: AAA/AUTHOR/LCP Vil (1528831370): Port='Virtual-
Access1' list='' service=NET 17:28:23: AAA/AUTHOR/LCP: Vil (1528831370) user='jsmith@hp.com'
17:28:23: AAA/AUTHOR/LCP: Vil (1528831370) send AV service=ppp 17:28:23: AAA/AUTHOR/LCP: Vil
(1528831370) send AV protocol=lcp 17:28:23: AAA/AUTHOR/LCP (1528831370) found list "default"
17:28:23: AAA/AUTHOR/LCP: Vil (1528831370) Method=RADIUS 17:28:23: AAA/AUTHOR (1528831370): Post
authorization status = PASS_REPL 17:28:23: AAA/AUTHOR/LCP Vil: Processing AV service=ppp
17:28:23: AAA/ACCT/NET/START User jsmith@hp.com, Port Virtual-Access1, List "" 17:28:23:
AAA/ACCT/NET: Found list "default" 17:28:23: AAA/AUTHOR/FSM Vil: (0): Can we start IPCP?
17:28:23: AAA/AUTHOR/FSM Vil (4249637449): Port='Virtual-Access1' list='' service=NET 17:28:23:
AAA/AUTHOR/FSM: Vil (4249637449) user='jsmith@hp.com' 17:28:23: AAA/AUTHOR/FSM: Vil (4249637449)
send AV service=ppp 17:28:23: AAA/AUTHOR/FSM: Vil (4249637449) send AV protocol=ip 17:28:23:
AAA/AUTHOR/FSM (4249637449) found list "default" 17:28:23: AAA/AUTHOR/FSM: Vil (4249637449)
Method=RADIUS 17:28:23: AAA/AUTHOR (4249637449): Post authorization status = PASS_REPL 17:28:23:
AAA/AUTHOR/FSM Vil: We can start IPCP 17:28:23: RADIUS: Computed extended port value 0:60100:
17:28:23: RADIUS: Initial Transmit id 55 171.68.118.101:1646, Accounting-Request, len 87
```

```
17:28:23: Attribute 4 6 0A1F0132 17:28:23: Attribute 5 6 0000EAC4 17:28:23: Attribute 1 15
6A736D69 17:28:23: Attribute 40 6 00000001 17:28:23: Attribute 45 6 00000001 17:28:23: Attribute
6 6 00000002 17:28:23: Attribute 44 10 30303030 17:28:23: Attribute 7 6 00000001 17:28:23:
Attribute 41 6 00000000 17:28:23: RADIUS: Received from id 55 171.68.118.101:1646, Accounting-
response, len 20 17:28:23: AAA/AUTHOR/IPCP Vil: Start. Her address 0.0.0.0, we want 0.0.0.0
17:28:23: AAA/AUTHOR/IPCP Vil: Processing AV service=ppp 17:28:23: AAA/AUTHOR/IPCP Vil:
Authorization succeeded 17:28:23: AAA/AUTHOR/IPCP Vil: Done. Her address 0.0.0.0, we want
0.0.0.0 17:28:23: AAA/AUTHOR/IPCP Vil: Start. Her address 0.0.0.0, we want 1.1.1.1 17:28:23:
AAA/AUTHOR/IPCP Vil: Processing AV service=ppp 17:28:23: AAA/AUTHOR/IPCP Vil: Authorization
succeeded 17:28:23: AAA/AUTHOR/IPCP Vil: Done. Her address 0.0.0.0, we want 1.1.1.1 17:28:24:
AAA/AUTHOR/IPCP Vil: Start. Her address 1.1.1.1, we want 1.1.1.1 17:28:24: AAA/AUTHOR/IPCP Vil
(923857566): Port='Virtual-Access1' list='' service=NET 17:28:24: AAA/AUTHOR/IPCP: Vil
(923857566) user='jsmith@hp.com' 17:28:24: AAA/AUTHOR/IPCP: Vil (923857566) send AV service=ppp
17:28:24: AAA/AUTHOR/IPCP: Vil (923857566) send AV protocol=ip 17:28:24: AAA/AUTHOR/IPCP: Vil
(923857566) send AV addr*1.1.1.1 17:28:24: AAA/AUTHOR/IPCP (923857566) found list "default"
17:28:24: AAA/AUTHOR/IPCP: Vil (923857566) Method=RADIUS 17:28:24: AAA/AUTHOR (923857566): Post
authorization status = PASS_REPL 17:28:24: AAA/AUTHOR/IPCP Vil: Reject 1.1.1.1, using 1.1.1.1
17:28:24: AAA/AUTHOR/IPCP Vil: Processing AV service=ppp 17:28:24: AAA/AUTHOR/IPCP Vil:
Processing AV addr*1.1.1.1 17:28:24: AAA/AUTHOR/IPCP Vil: Authorization succeeded 17:28:24:
AAA/AUTHOR/IPCP Vil: Done. Her address 1.1.1.1, we want 1.1.1.1 %LINEPROTO-5-UPDOWN: Line
protocol on Interface Virtual-Access1, changed state to up Sneetches# !--- The user finishes and
disconnects. Sneetches# 17:28:50: Vil VPDN: Reset 17:28:50: Vil VPDN: Reset %LINK-3-UPDOWN:
Interface Virtual-Access1, changed state to down 17:28:50: Vil VPDN: Cleanup 17:28:50: Vil VPDN:
Reset 17:28:50: Vil VPDN: Reset 17:28:50: Vil VPDN: Unbind interface 17:28:50: Vil VPDN: Reset
17:28:50: Vil VPDN: Reset 17:28:50: AAA/ACCT/NET/STOP User jsmith@hp.com, Port Virtual-Access1:
task_id=14 start_time=900759731 timezone=UTC service=ppp protocol=ip addr=1.1.1.1 disc-cause=2
disc-cause-ext=1011 pre-bytes-in=0 pre-bytes-out=42 pre-paks-in=0 pre-paks-out=2 bytes_in=882
bytes_out=356 paks_in=17 paks_out=11 pre-session-time=0 elapsed_time=27 data-rate=0 xmit-rate=0
17:28:50: RADIUS: Computed extended port value 0:60100: 17:28:50: RADIUS: Initial Transmit id 56
171.68.118.101:1646, Accounting-Request, len 129 17:28:50: Attribute 4 6 0A1F0132 17:28:50:
Attribute 5 6 0000EAC4 17:28:50: Attribute 1 15 6A736D69 17:28:50: Attribute 40 6 00000002
17:28:50: Attribute 45 6 00000001 17:28:50: Attribute 6 6 00000002 17:28:50: Attribute 44 10
30303030 17:28:50: Attribute 7 6 00000001 17:28:50: Attribute 8 6 01010101 17:28:50: Attribute
49 6 00000002 17:28:50: Attribute 42 6 00000372 17:28:50: Attribute 43 6 00000164 17:28:50:
Attribute 47 6 00000011 17:28:50: Attribute 48 6 0000000B 17:28:50: Attribute 46 6 0000001B
17:28:50: Attribute 41 6 00000000 17:28:50: RADIUS: Received from id 56 171.68.118.101:1646,
Accounting-response, len 20 17:28:50: AAA/AUTHEN: free_user (0x143368) user='jsmith@hp.com'
ruser='' port='Virtual-Access1' rem_addr='async' authen_type=CHAP service=PPP priv=1 %LINEPROTO-
5-UPDOWN: Line protocol on Interface Virtual-Access1, changed state to down Sneetches#
```

Debugs pour la connexion défectueuse sur le routeur de l'ISP

```
koala#show debug General OS: AAA Authentication debugging is on AAA Authorization debugging is
on AAA Accounting debugging is on VPN: VPN events debugging is on VPN errors debugging is on
RADIUS protocol debugging is on koala# !--- Problem 1: !--- User hp.com is not in the ISP
server: !--- There is no output on HGW router because the call has not gone that far. RADIUS:
Received from id 83 171.68.120.194:1645, Access-Reject, len 20 18:43:18: AAA/AUTHEN
(4063976505): status = FAIL !--- Problem 2: !--- User hp.com is not in the ISP server. !---
There is no output on HGW router because !--- the call has not gone that far. RADIUS: Received
from id 83 171.68.120.194:1645, Access-Reject, len 20 18:43:18: AAA/AUTHEN (4063976505): status
= FAIL !--- Problem 3: !--- Problem in tunnel definition on HGW router; in HGW configuration !--
- vpdn incoming hp-gw isp virtual-template 1 is inserted !--- instead of vpdn incoming isp hp-gw
virtual-template 1. %VPDN-5-UNREACH: L2F HGW 10.31.1.50 is unreachable VPDN: Timeout opening
tunnel to 10.31.1.50 VPDN: Free busy address 10.31.1.50 !--- Problem 4: !--- User "isp" or "hp-
gw" is removed from HGW router. %VPDN-6-AUTHENFAIL: L2F NAS koala, authentication failure for
tunnel hp-gw; Invalid key !--- Problem 5: !--- User "isp" is not in the HGW server. %VPDN-6-
AUTHENFAIL: L2F HGW , AAA authentication failure for tunnel hp-gw !--- Problem 6: !--- User
jsmith@hp.com is not in the HGW server. %VPDN-6-AUTHENFAIL: L2F HGW hp-gw, AAA authentication
failure for As1 user jsmith@hp.com; Authentication failure
```

Debugs pour des connexions Failed sur le routeur HGW

```
Sneetches#show debug General OS: AAA Authentication debugging is on AAA Authorization debugging
```

is on AAA Accounting debugging is on VPN: VPN events debugging is on VPN errors debugging is on RADIUS protocol debugging is on Sneetches# !--- **Problem 1:** !--- Problem in tunnel definition on the HGW router; in HGW configuration !--- vpdn incoming hp-gw isp virtual-template 1 is inserted !--- instead of vpdn incoming isp hp-gw virtual-template 1 !--- debug vpdn l2f-errors display.

19:25:27: L2F: Couldn't find tunnel named isp 19:25:30: L2F: Couldn't find tunnel named isp !--- **Problem 2:** !--- User "isp" is removed from the HGW router. AAA/AUTHEN (3372073334): SENDAUTH no password for isp AAA/AUTHEN (3372073334): status = ERROR AAA/AUTHEN/START (3372073334): no methods left to try AAA/AUTHEN (3372073334): status = ERROR AAA/AUTHEN/START (3372073334): failed to authenticate !--- **Problem 3:** !--- User "hp-gw" is removed from the HGW router. AAA/AUTHEN (3999868118): SENDAUTH no password for hp-gw AAA/AUTHEN (3999868118): status = ERROR AAA/AUTHEN/START (3999868118): no methods left to try AAA/AUTHEN (3999868118): status = ERROR AAA/AUTHEN/START (3999868118): failed to authenticate !--- **Problem 4:** !--- User "isp" is removed from HGW RADIUS server. RADIUS: Received from id 107 171.68.118.101:1645, Access-Reject, len 46 Attribute 18 26 41757468 AAA/AUTHEN (2759462034): status = FAIL VPDN: Chap authentication failed for isp %VPDN-6-AUTHENFAIL: L2F HGW , AAA authentication failure for tunnel isp !--- **Problem 5:** !--- User "jsmith@hp.com" is not in the HGW server. RADIUS: Received from id 109 171.68.118.101:1645, Access-Reject, len 46 Attribute 18 26 41757468 AAA/AUTHEN (2765235576): status = FAIL %VPDN-6-AUTHENFAIL: L2F HGW hp-gw, AAA authentication failure for V11 user jsmith@hp.com; Authentication failure

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- [Demandes de commentaires \(RFC\)](#)
- [Page de support produit de Cisco Secure UNIX](#)
- [Support technique - Cisco Systems](#)