

ق فن ل لوك و تورب ة ق د اص م ني و ك ت ة ي في ك TACACS+ ماد خ ت س اب 2 ة ق ب ط ل ل

المحتويات

- [المقدمة](#)
- [المتطلبات الأساسية](#)
- [المتطلبات](#)
- [المكونات المستخدمة](#)
- [الاصطلاحات](#)
- [التكوين](#)
- [الرسم التخطيطي للشبكة](#)
- [تكوينات خادم TACACS+](#)
- [تكوينات الموجه](#)
- [التحقق من الصحة](#)
- [عرض إخراج الأمر من كلا الموجهين](#)
- [عرض إخراج الإصدار من كلا الموجهين](#)
- [ما الذي يمكن أن يحدث بشكل خاطئ - تصحيح أخطاء سيء من LAC](#)
- [ما الذي يمكن أن يحدث بشكل خاطئ - تصحيح أخطاء سيء من LNS](#)
- [سجلات محاسبة LNS](#)
- [استكشاف الأخطاء وإصلاحها](#)
- [أوامر استكشاف الأخطاء وإصلاحها](#)
- [إخراج تصحيح الأخطاء](#)
- [معلومات ذات صلة](#)

المقدمة

يوضح هذا المستند كيفية تكوين بروتوكول نفق الطبقة 2 (L2TP) باستخدام TACACS+. وهو يتضمن نموذجاً لتكوينات خوادم مركز الوصول إلى بروتوكول TACACS (LAC) L2TP + و خادم شبكة TACACS (LNS) L2TP + والموجهات.

المتطلبات الأساسية

المتطلبات

لا توجد متطلبات خاصة لهذا المستند.

المكونات المستخدمة

تستند المعلومات الواردة في هذا المستند إلى إصدارات البرامج والمكونات المادية التالية:

- موجهات Cisco 2511
 - برنامج IOS® الإصدار 12.0(2)T من Cisco
 - Cisco Secure UNIX أو Cisco Secure Windows أو البرامج المجانية ل TACACS+
- تم إنشاء المعلومات الواردة في هذا المستند من الأجهزة الموجودة في بيئة معملية خاصة. بدأت جميع الأجهزة المستخدمة في هذا المستند بتكوين ممسوح (افتراضي). إذا كانت شبكتك مباشرة، فتأكد من فهمك للتأثير المحتمل لأي أمر.

الاصطلاحات

للحصول على مزيد من المعلومات حول اصطلاحات المستندات، ارجع إلى [اصطلاحات تلميحات Cisco التقنية](#).

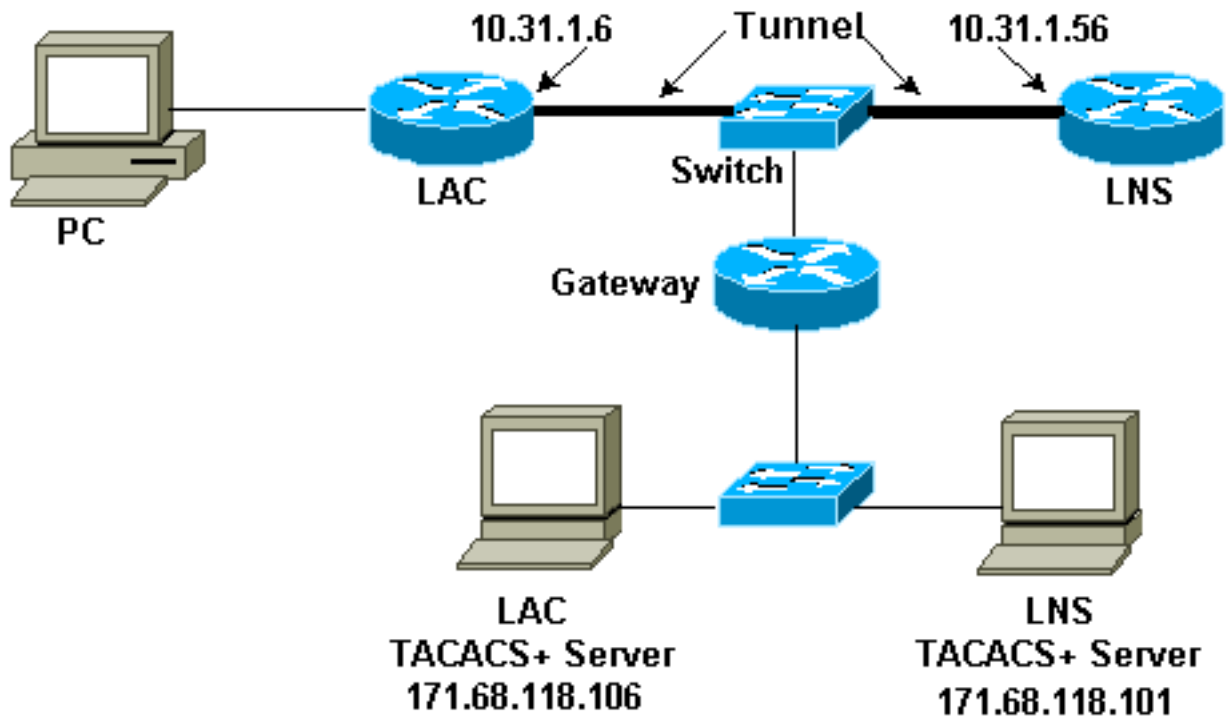
التكوين

في هذا القسم، تُقدّم لك معلومات تكوين الميزات الموضحة في هذا المستند.

ملاحظة: للعثور على معلومات إضافية حول الأوامر المستخدمة في هذا المستند، استخدم [أداة بحث الأوامر \(للمعلماء المسجلين فقط\)](#).

الرسم التخطيطي للشبكة

يستخدم هذا المستند إعداد الشبكة الموضح في هذا الرسم التخطيطي.



تكوينات خادم TACACS+

تكوين Cisco Secure UNIX - LAC

```
}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
{
{
{

```

تكوين 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
{
{

```

تكوين LAC - Cisco Secure Windows

أكمل الخطوات التالية لتكوين LAC على Cisco Secure Windows:

1. قم بإعداد المستخدم rtp_tunnel كمستخدم PPP عادي (كلمة المرور و/أو كلمة مرور CHAP في إعداد المستخدم).
2. ضع المستخدم في group_1 وفحص خدمة PPP/IP. حدد PPP/LCP إذا كان ذلك المربع معروض.
3. إعداد المستخدم rtp.cisco.com. كلمة المرور هي "لا تهتم".
4. إذا لم يتم عرض بعض الخيارات في "إعدادات المجموعة"، انتقل إلى تكوين الواجهة وحدد المربعات لجعلها تظهر.
5. ضع المستخدم في group_2 وفحص خدمة PPP/VPDN. معرف النفق هو rtp_tunnel، وقائمة عناوين IP هي 10.31.1.56، وفي المربع المخصص المستطيل الموجود أدناه، اكتب tunnel-type=l2tp.

[تكوين LNS - Cisco Secure Windows](#)

أكمل الخطوات التالية لتكوين LNS ل Cisco Secure Windows:

1. قم بإعداد المستخدمين 'PPPe' و'janedoe@rtp.cisco.com' كمستخدمين عاديين ل PPP (كلمة المرور و/أو كلمة مرور CHAP في إعداد المستخدم).
2. ضع المستخدمين في group_3 وفحص PPP/IP للخدمة. حدد PPP/LCP إذا كان ذلك المربع معروض.

[تكوين LAC TACACS+ FreeWare](#)

```
        } 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
        {
        {
```

[تكوين البرنامج المجاني 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
        {
        {
```

[تكوينات الموجه](#)

تكوين موجه LAC
<pre>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</pre>

```
+aaa accounting network default start-stop tacacs
enable secret level 7 5 $1$Dj3K$9jkyuJR6fJV2JO./Qt0lCl
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
```

تكوين موجة 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
```

التحقق من الصحة

عرض إخراج الأمر من كلا الموجهين

يوفر هذا القسم معلومات يمكنك استخدامها للتأكد من أن التكوين يعمل بشكل صحيح.

يتم دعم بعض أوامر العرض بواسطة أداة مترجم الإخراج (العملاء المسجلون فقط)، والتي تتيح لك عرض تحليل إخراج أمر العرض.

موجه LAC

```
LAC#show vpdn session
(L2TP Session Information (Total tunnels=1 sessions=1

LocID RemID TunID Intf Username State Last Chg
As1 janedoe@rtp.c est 00:00:32 76 1 1

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
ABCDE est 10.31.1.56 1701 1 58 76

No active L2F tunnels %
```

موجه LNS

```
LNS#show vpdn session

(L2TP Session Information (Total tunnels=1 sessions=1
```

```
LocID RemID TunID Intf Username State Last Chg
Vi1 janedoe@rtp.c est 00:01:55 58 1 1
```

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
rtp_tunnel est 10.31.1.144 1701 1 76 58
```

No active L2F tunnels %

[عرض إخراج الإصدار من كلا الموجهين](#)

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-l.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
(Ethernet/IEEE 802.3 interface(s 1
(Serial network interface(s 2
(terminal line(s 16
.32K bytes of non-volatile configuration memory
(16384K bytes of processor board System flash (Read ONLY
Configuration register is 0x2102
```

[ما الذي يمكن أن يحدث بشكل خاطئ - تصحيح أخطاء سي: من LAC](#)

يتضمن إخراج تصحيح الأخطاء هذا تعليقات على مكان توقف التسلسل عند تكوين الموجه بشكل غير صحيح.

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
LINK-3-UPDOWN: Interface Async1, changed state to up% :20:03:18
-- 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
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 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 !--- 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 LNS 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
rem_addr='' 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
,LINEPROTO-5-UPDOWN: Line protocol on Interface Async1% :20:03:20
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
rem_addr='' 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
rem_addr='' 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
rem_addr='' 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

[ما الذي يمكن أن يحدث بشكل خاطئ - تصحيح أخطاء سي: من LNS](#)

يتضمن إخراج تصحيح الأخطاء هذا تعليقات على مكان توقف التسلسل عند تكوين الموجه بشكل غير صحيح.

```

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 SCCRQ 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 SCCRQ, 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
    port='' list='default' action=SENDAUTH service=PPP :(4117701992)
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: Vi1 VTEMPLATE: Reuse Vi1, recycle queue size 0
Jan 30 12:17:11: Vi1 VTEMPLATE: Hardware address 00e0.1e68.942c
Jan 30 12:17:11: Vi1 VPDN: Virtual interface created for janedoe@rtp.cisco.com
Jan 30 12:17:11: Vi1 VPDN: Set to Async interface
Jan 30 12:17:11: Vi1 VPDN: Clone from 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-Template1
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
LINK-3-UPDOWN: Interface Virtual-Access1, changed state to up% :20:12:14
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

```

```

Here, the tunnel is ok, but the user !--- enters a bad password in dialing: Jan 30 ---!
13:39:44: AAA/AUTHEN (1958732267): status = FAIL
VPDN-6-AUTHENFAIL: L2F HGW 10.31.1.144, AAA authentication% :21:34:45
failure for Vi1 user
janedoe@rtp.cisco.com; Authentication failure
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
    ,LINEPROTO-5-UPDOWN: Line protocol on Interface Virtual-Access1% :20:12:16
      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
    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

LNS محاسبة

هذا على خادم 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
```

استكشاف الأخطاء وإصلاحها

يوفر هذا القسم معلومات يمكنك استخدامها لاستكشاف أخطاء التكوين وإصلاحها.

أوامر استكشاف الأخطاء وإصلاحها

ملاحظة: قبل إصدار أوامر تصحيح الأخطاء، يرجى الاطلاع على [المعلومات المهمة في أوامر تصحيح الأخطاء](#).

- `debug aaa authentication` — يعرض معلومات حول مصادقة AAA/TACACS .
- `debug aaa authentication` — يعرض معلومات حول تفويض AAA/TACACS .
- `debug aaa accounting` — يعرض معلومات عن الأحداث المسؤولة عند حدوثها. المعلومات المعروضة بواسطة هذا الأمر مستقلة عن بروتوكول المحاسبة المستخدم لنقل معلومات المحاسبة إلى خادم.
- `debug tacacs` — يعرض معلومات تصحيح الأخطاء التفصيلية المرتبطة ب TACACS .
- `debug vtemplate` — يعرض معلومات النسخ لواجهة الوصول الظاهري من الوقت الذي يتم إستنساخها فيه من قالب ظاهري إلى الوقت الذي يتم فيه إيقاف واجهة الوصول الظاهري عند انتهاء المكالمة.
- `debug vpdn` خطأ — يعرض الأخطاء التي تمنع إنشاء نفق PPP أو الأخطاء التي تتسبب في إغلاق نفق تم إنشاؤه.
- `debug vpdn events` — يعرض رسائل حول الأحداث التي تعد جزءا من إنشاء نفق PPP العادي أو إيقاف تشغيله.
- `debug vpdn l2x-errors` — يعرض أخطاء بروتوكول الطبقة 2 التي تمنع إنشاء الطبقة 2 أو تمنع تشغيلها الطبيعي.
- `debug vpdn l2x-events` — يعرض رسائل حول الأحداث التي هي جزء من إنشاء نفق PPP العادي أو إيقاف تشغيله للطبقة 2.

إخراج تصحيح الأخطاء

تصحيح الأخطاء الجيد من موجه 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
LINK-3-UPDOWN: Interface Async1, changed state to up% :20:03:18
-- 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 SCCRP
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
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
,LINEPROTO-5-UPDOWN: Line protocol on Interface Async1% :20:03:20
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
```


تصحیح أخطاء جید من موجہ 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
port='' list='default' action=SENDAUTH service=PPP :(4117701992)
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: Vi1 VTEMPLATE: Reuse Vi1, recycle queue size 0
    Jan 30 12:17:11: Vi1 VTEMPLATE: Hardware address 00e0.1e68.942c
    Jan 30 12:17:11: Vi1 VPDN: Virtual interface created for janedoe@rtp.cisco.com
        Jan 30 12:17:11: Vi1 VPDN: Set to Async interface
    Jan 30 12:17:11: Vi1 VPDN: Clone from 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
        encapsulation 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
    LINK-3-UPDOWN: Interface Virtual-Access1, changed state to up% :20:12:14
    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
      ,LINEPROTO-5-UPDOWN: Line protocol on Interface Virtual-Access1% :20:12:16
                                changed state to up
Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCPC: Start. Her address 0.0.0.0, we want 0.0.0.0
      Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCPC: Processing AV service=ppp
      Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCPC: Processing AV protocol=ip
      Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCPC: Authorization succeeded
      Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCPC: Done. Her address 0.0.0.0, we want 0.0.0.0
Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCPC: Start. Her address 0.0.0.0, we want 10.6.1.1
      Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCPC: Processing AV service=ppp
      Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCPC: Processing AV protocol=ip
      Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCPC: Authorization succeeded
      Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCPC: Done. Her address 0.0.0.0, we want 10.6.1.1
Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCPC: Start. Her address 10.6.1.1, we want 10.6.1.1
      'Jan 30 12:17:16: AAA/AUTHOR/IPCPC Vi1 (3572380713): Port='Virtual-Access1
                                list='' service=NET
'Jan 30 12:17:16: AAA/AUTHOR/IPCPC: Vi1 (3572380713) user='janedoe@rtp.cisco.com
      Jan 30 12:17:16: AAA/AUTHOR/IPCPC: Vi1 (3572380713) send AV service=ppp
      Jan 30 12:17:16: AAA/AUTHOR/IPCPC: Vi1 (3572380713) send AV protocol=ip
      Jan 30 12:17:16: AAA/AUTHOR/IPCPC: Vi1 (3572380713) send AV addr*10.6.1.1
      "Jan 30 12:17:16: AAA/AUTHOR/IPCPC (3572380713) found list "default
      +Jan 30 12:17:16: AAA/AUTHOR/IPCPC: 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
      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
```

معلومات ذات صلة

- [صفحة دعم UNIX الآمن من Cisco](#)
- [صفحة دعم +TACACS/TACACS](#)
- [Cisco IOS في وثائق +TACACS](#)
- [مصدر المحتوى الإضافي الآمن من Cisco لصفحة دعم Windows](#)
- [الدعم الفني - Cisco Systems](#)

ةمچرتل هذه ل و ح

ةلأل تاي نقتل ن م ة و مچ م ادخت ساب دن تسمل اذ ه Cisco ت مچرت
ملاعلاء نأ عي مچ ي ف ن ي م دخت سمل ل معد ي و تح م مي دقت ل ة ي رش ب ل و
امك ة ق ي قد ن و ك ت ن ل ة ي ل ة مچرت ل ض ف أن ة ظ حال م ي ج ر ي . ة ص ا خ ل م ه ت غ ل ب
Cisco ي ل خ ت . ف ر ت ح م مچرت م ا ه م د ق ي ي ت ل ا ة ي ف ا ر ت ح ا ل ا ة مچرت ل ا ع م ل ا ح ل ا و ه
ي ل ا م ئ ا د ع و ج ر ل ا ب ي ص و ت و ت ا مچرت ل ا ه ذ ه ة ق د ن ع ا ه ت ي ل و ئ س م Cisco
Systems (ر ف و ت م ط ب ا ر ل ا) ي ل ص أ ل ا ي ز ي ل ج ن إ ل ا دن تسمل ا