

# Configuration de la fonction PPP Callback avec RADIUS

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## Introduction

Ce document montre des exemples de configuration du routeur et du serveur pour effectuer un rappel PPP (Point-to-Point Protocol) avec RADIUS.

## Avant de commencer

### Conventions

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

### Conditions préalables

Pour que cela fonctionne :

- Effectuez le test initial avec l'authentification locale et le rappel (c'est-à-dire, supprimez la commande `aaa new-model`). Si le rappel ne fonctionne pas avec l'authentification locale, il ne fonctionnera pas avec RADIUS. Consultez [cet exemple](#) d'utilisation de l'authentification locale.
- Effectuez d'autres tests d'authentification PPP avec RADIUS sans rappel. Si les utilisateurs ÉCHOUENT à l'authentification et/ou à l'autorisation sans rappel, l'authentification et l'autorisation ne fonctionnent pas avec le rappel.
- Une fois que l'authentification locale pour le rappel et l'authentification PPP avec RADIUS fonctionnent, ajoutez les informations de l'utilisateur local sur le routeur (telles que la chaîne de numérotation de rappel) au profil de l'utilisateur sur le serveur.

Remarque : dans ces tests, le client était un serveur NT 4.0, DUN, configuré comme d'habitude pour une connexion PPP, mais avec l'option `Enable PPP/LCP extensions` cochée sous `Server` pour permettre le rappel Microsoft. Le rappel Microsoft est pris en charge dans le logiciel Cisco IOS® versions 11.3.2.T et ultérieures. Pour obtenir des informations spécifiques sur la configuration de votre ordinateur Microsoft Windows pour le rappel, reportez-vous au site Web de Microsoft.

## Composants utilisés

Cette configuration a été développée et testée à l'aide des versions logicielles ci-dessous.

- Logiciel Cisco IOS versions 11.3.2.T et ultérieures
- CiscoSecure ACS UNIX 2.x ou CiscoSecure ACS pour Windows 2.x ou version ultérieure

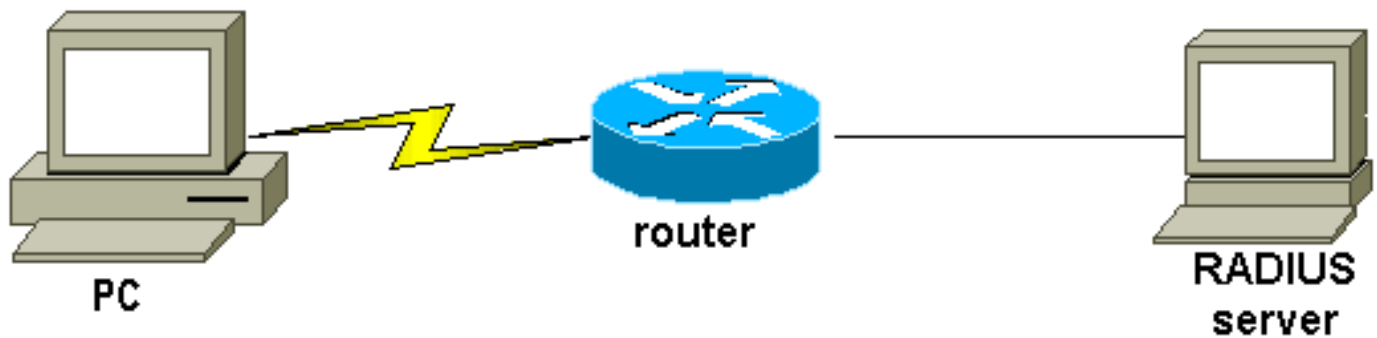
## Configurer

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

Remarque : Pour en savoir plus sur les commandes utilisées dans le présent document, utilisez [l'outil de recherche de commandes](#) (clients [inscrits](#) seulement).

## Diagramme du réseau

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



## Configuration du serveur - CiscoSecure NT

- L'utilisateur obtient le mot de passe et le confirme.
- Dans les paramètres de groupe : attribut 006 Service-Type = attribut tramé 007 Framed-Protocol = PPP
- Dans la dernière case de l'écran, Attributs RADIUS Cisco, cochez [009\001 - AV-Pair] et en dessous, entrez : lcp : callback-dialstring=20367

## Configuration du serveur - CiscoSecure UNIX

```
rtp-berry# ./ViewProfile -p 9900 -u callback
User Profile Information
user = callback{
profile_id = 34
profile_cycle = 1
radius=Cisco {
check_items= {
2="callback"
}
reply_attributes= {
6=2
7=1
9,1="lcp:callback-dialstring=20367"
}
}
}
```

## Configuration du serveur - Livingston RADIUS (avec paires av de Cisco)

```
callback2 Password = "callback2"
User-Service-Type = Framed-User,
Framed-Protocol = PPP,
cisco-avpair = "lcp:callback-dialstring=20367"
```

## Configurations

### Configuration du routeur

```
<#root>
rtpkrb#
show run
Building configuration...

Current configuration:
!
version 11.3
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
service udp-small-servers
service tcp-small-servers
!
hostname rtpkrb
!

!--- AAA configuration.

aaa new-model
aaa authentication login default radius none
aaa authentication ppp default radius none
aaa authorization exec default radius none
aaa authorization network default radius none
enable secret 5 $1$pkX.$JdAySRE1SbdbDe7bj0wyt0
enable password ww
!
ip host rtpkrb 10.31.1.5
ip domain-name RTP.CISCO.COM
ip name-server 171.68.118.103

!--- Chat-scripts to be used for the dialout.

chat-script offhook "" "ATH1" OK
chat-script callback ABORT ERROR ABORT BUSY "" "ATZ" OK "ATDT \T"
TIMEOUT 30 CONNECT \c
!
interface Loopback0
ip address 1.1.1.1 255.255.255.0
!
interface Ethernet0
ip address 10.31.1.5 255.255.0.0
!
interface Serial0
no ip address
no ip mroute-cache
shutdown
!
interface Serial1
no ip address
shutdown
!
interface Async1
```

```
ip unnumbered Ethernet0
encapsulation ppp
async mode dedicated
peer default ip address pool async
no cdp enable
ppp max-bad-auth 3
ppp callback accept
ppp authentication pap
!
ip local pool async 15.15.15.15
ip classless
ip route 0.0.0.0 0.0.0.0 10.31.1.1
snmp-server community public RW
snmp-server host 171.68.118.100 traps public
radius-server host 171.68.118.101 auth-port 1645 acct-port 1646
radius-server key cisco
!
line con 0
line 1
session-timeout 20
exec-timeout 20 0
password ww
autoselect ppp
script modem-off-hook offhook
script callback callback
modem InOut
transport input all
stopbits 1
speed 38400
flowcontrol hardware
line 2
modem InOut
speed 38400
flowcontrol hardware
line 3 16
line aux 0
line vty 0 4
exec-timeout 0 0
timeout login response 100
password ww
!
end
```

## Vérifier

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

## Dépannage

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

### Dépannage des commandes

Remarque : avant d'émettre des commandes debug, consultez [Informations importantes sur les](#)

## commandes de débogage.

- debug aaa authentication Affichez les informations sur l'authentification AAA.
- debug aaa authorization - Affiche des informations sur l'autorisation AAA.
- debug callback - Affiche les événements de rappel lorsque le routeur utilise un modem et un script de conversation pour rappeler sur une ligne de terminal.
- debug chat - Affiche les caractères envoyés entre le serveur d'accès réseau (NAS) et le PC. Un script de conversation est un ensemble de paires de chaînes d'envoi anticipé qui définissent la liaison entre les périphériques ETTD (équipement terminal de traitement de données), ETTD (équipement terminal de traitement de données) ou ETTD (équipement de communication de données).
- debug modem - Observez l'activité de ligne du modem sur un serveur d'accès.
- debug ppp negotiation - Affiche les paquets PPP transmis pendant le démarrage de PPP, où les options PPP sont négociées.
- debug ppp authentication - Affiche les messages du protocole d'authentification, y compris les échanges de paquets CHAP (Challenge Authentication Protocol) et PAP (Password Authentication Protocol).
- debug radius - Affiche des informations de débogage détaillées associées à RADIUS.

## Exemple de sortie de débogage

```
General OS:
Modem control/process activation debugging is on
AAA Authentication debugging is on
AAA Authorization debugging is on
PPP:
PPP protocol negotiation debugging is on
Chat Scripts:
Chat scripts activity debugging is on
Callback:
Callback activity debugging is on
Radius protocol debugging is on
rtpkrb#
04:04:42: TTY1: DSR came up
04:04:42: tty1: Modem: IDLE->READY
04:04:42: TTY1: Autoselect started
04:04:44: TTY1: Autoselect sample 7E
04:04:44: TTY1: Autoselect sample 7EFF
04:04:44: TTY1: Autoselect sample 7EFF7D
04:04:44: TTY1: Autoselect sample 7EFF7D23
04:04:44: TTY1 Autoselect cmd: ppp negotiate
04:04:44: TTY1: EXEC creation
04:04:46: %LINK-3-UPDOWN: Interface Async1, changed state to up
04:04:46: As1 PPP: Treating connection as a dedicated line
04:04:46: As1 PPP: Phase is ESTABLISHING, Active Open
04:04:46: As1 LCP: 0 CONFREQ [Closed] id 224 len 24
```

04:04:46: As1 LCP: ACCM 0x000A0000 (0x0206000A0000)  
04:04:46: As1 LCP: AuthProto PAP (0x0304C023)  
04:04:46: As1 LCP: MagicNumber 0xE0FE5C09 (0x0506E0FE5C09)  
04:04:46: As1 LCP: PFC (0x0702)  
04:04:46: As1 LCP: ACFC (0x0802)  
04:04:46: As1 LCP: I CONFACK [REQsent] id 224 len 24  
04:04:46: As1 LCP: ACCM 0x000A0000 (0x0206000A0000)  
04:04:46: As1 LCP: AuthProto PAP (0x0304C023)  
04:04:46: As1 LCP: MagicNumber 0xE0FE5C09 (0x0506E0FE5C09)  
04:04:46: As1 LCP: PFC (0x0702)  
04:04:46: As1 LCP: ACFC (0x0802)  
04:04:47: As1 LCP: I CONFREQ [ACKrcvd] id 0 len 23  
04:04:47: As1 LCP: ACCM 0x00000000 (0x020600000000)  
04:04:47: As1 LCP: MagicNumber 0x00006CCD (0x050600006CCD)  
04:04:47: As1 LCP: PFC (0x0702)  
04:04:47: As1 LCP: ACFC (0x0802)  
04:04:47: As1 LCP: Callback 6 (0x0D0306)  
04:04:47: As1 LCP: 0 CONFACK [ACKrcvd] id 0 len 23  
04:04:47: As1 LCP: ACCM 0x00000000 (0x020600000000)  
04:04:47: As1 LCP: MagicNumber 0x00006CCD (0x050600006CCD)  
04:04:47: As1 LCP: PFC (0x0702)  
04:04:47: As1 LCP: ACFC (0x0802)  
04:04:47: As1 LCP: Callback 6 (0x0D0306)  
04:04:47: As1 LCP: State is Open  
04:04:47: As1 PPP: Phase is AUTHENTICATING, by this end  
04:04:47: As1 LCP: I IDENTIFY [Open] id 1 len 18 magic  
0x00006CCD MSRASV4.00  
04:04:47: As1 LCP: I IDENTIFY [Open] id 2 len 21 magic  
0x00006CCD MSRAS-1-ZEKIE  
04:04:47: As1 PAP: I AUTH-REQ id 15 len 24 from "callback2"  
04:04:47: As1 PAP: Authenticating peer callback2  
04:04:47: AAA/AUTHEN: create\_user (0x14B1CC) user='callback2' ruser=''  
port='Async1' rem\_addr='async' authen\_type=PAP service=PPP priv=1  
04:04:47: AAA/AUTHEN/START (3229557248): port='Async1' list=''  
action=LOGIN service=PPP  
04:04:47: AAA/AUTHEN/START (3229557248): using "default" list  
04:04:47: AAA/AUTHEN/START (3229557248): Method=RADIUS  
04:04:47: RADIUS: Computed extended port value 0:1:  
04:04:47: RADIUS: Initial Transmit id 156 171.68.118.101:1645,  
Access-Request, len 79  
04:04:47: Attribute 4 6 0A1F0105  
04:04:47: Attribute 5 6 00000001  
04:04:47: Attribute 61 6 00000000  
04:04:47: Attribute 1 11 63616C6C  
04:04:47: Attribute 2 18 47E86FBC  
04:04:47: Attribute 6 6 00000002  
04:04:47: Attribute 7 6 00000001  
04:04:47: RADIUS: Received from id 156 171.68.118.101:1645,  
Access-Accept, len 69  
04:04:47: Attribute 6 6 00000002  
04:04:47: Attribute 7 6 00000001  
04:04:47: Attribute 26 37 00000009011F6C63  
04:04:47: RADIUS: saved authorization data for user 14B1CC at 14A684  
04:04:47: AAA/AUTHEN (3229557248): status = PASS  
04:04:47: AAA/AUTHOR/LCP As1: Authorize LCP  
04:04:47: AAA/AUTHOR/LCP As1 (101984404): Port='Async1'  
list='' service=NET  
04:04:47: AAA/AUTHOR/LCP: As1 (101984404) user='callback2'  
04:04:47: AAA/AUTHOR/LCP: As1 (101984404) send AV service=ppp  
04:04:47: AAA/AUTHOR/LCP: As1 (101984404) send AV protocol=lcp  
04:04:47: AAA/AUTHOR/LCP (101984404) found list "default"  
04:04:47: AAA/AUTHOR/LCP: As1 (101984404) Method=RADIUS

*!--- Callback number is obtained from the RADIUS server.*

```
04:04:47: RADIUS: cisco AVPair "lcp:callback-dialstring=20367"
04:04:47: AAA/AUTHOR (101984404): Post authorization status = PASS_REPL
04:04:47: AAA/AUTHOR/LCP As1: Processing AV service=ppp
04:04:47: AAA/AUTHOR/LCP As1: Processing AV callback-dialstring=20367
04:04:47: As1 PAP: 0 AUTH-ACK id 15 len 5
04:04:47: As1 MCB: User callback2 Callback Number - Server 20367
04:04:47: Async1 PPP: 0 MCB Request(1) id 47 len 7
04:04:47: Async1 MCB: 0 1 2F 0 7 3 3 0
04:04:47: As1 MCB: 0 Request Id 47 Callback Type Server-Num delay 0
04:04:47: Async1 PPP: I MCB Response(2) id 47 len 7
04:04:47: Async1 MCB: I 2 2F 0 7 3 3 C
04:04:47: As1 MCB: Received response
04:04:47: As1 MCB: Response CBK-Server-Num 3 3 12
04:04:47: Async1 PPP: 0 MCB Ack(3) id 48 len 7
04:04:47: Async1 MCB: 0 3 30 0 7 3 3 C
04:04:47: As1 MCB: 0 Ack Id 48 Callback Type Server-Num delay 12
04:04:47: As1 MCB: Negotiated MCB with peer
04:04:47: %LINEPROTO-5-UPDOWN: Line protocol on Interface Async1,
    changed state to up
04:04:47: As1 LCP: I TERMREQ [Open] id 3 len 8 (0x00000000)
04:04:47: As1 LCP: O TERMACK [Open] id 3 len 4
04:04:47: As1 MCB: Peer terminating the link
04:04:47: As1 PPP: Phase is TERMINATING
04:04:47: As1 MCB: Link terminated by peer, Callback Needed
```

*!--- Callback is initiated.*

```
04:04:47: As1 MCB: Initiate Callback for callback2 at 20367 using Async
04:04:47: As1 MCB: Async-callback in progress
04:04:47: TTY1 Callback PPP process creation
04:04:47: As1 AAA/ACCT: Using PPP accounting list ""
04:04:47: TTY1 Callback process initiated, user: dialstring 20367
04:04:48: %LINEPROTO-5-UPDOWN: Line protocol on Interface Async1,
    changed state to down
04:04:48: TTY1: Async Int reset: Dropping DTR
04:04:49: As1 LCP: TIMEOUT: Time 0xE02574 State TERMsent
04:04:49: As1 LCP: State is Closed
04:04:49: As1 PPP: Phase is DOWN
04:04:49: As1 PPP: Phase is ESTABLISHING, Passive Open
04:04:49: As1 LCP: State is Listen
04:04:50: %LINK-5-CHANGED: Interface Async1, changed state to reset
04:04:50: As1 LCP: State is Closed
04:04:50: As1 PPP: Phase is DOWN
04:04:50: As1 IPCP: Remove route to 15.15.15.15
04:04:53: AAA/AUTHEN: free_user (0x14B1CC) user='callback2' ruser=''
    port='Async1' rem_addr='async' authn_type=PAP service=PPP priv=1
04:04:53: TTY1 Callback forced wait = 4 seconds
04:04:55: %LINK-3-UPDOWN: Interface Async1, changed state to down
04:04:55: As1 LCP: State is Closed
04:04:55: As1 PPP: Phase is DOWN
04:04:57: CHAT1: Matched chat script offhook to string offhook
04:04:57: CHAT1: Asserting DTR
04:04:57: CHAT1: Chat script offhook started
04:04:57: CHAT1: Sending string: ATH1
04:04:57: CHAT1: Expecting string: OK
04:04:57: CHAT1: Completed match for expect: OK
04:04:57: CHAT1: Chat script offhook finished, status = Success
04:04:57: CHAT1: Matched chat script callback to string callback
04:04:57: CHAT1: Asserting DTR
```



04:04:57: CHAT1: Chat script callback started  
04:04:57: CHAT1: Sending string: ATZ  
04:04:57: CHAT1: Expecting string: OK  
04:04:57: CHAT1: Completed match for expect: OK  
04:04:57: CHAT1: Sending string: ATDT \T<20367>  
04:04:57: CHAT1: Expecting string: CONNECT  
04:05:14: CHAT1: Completed match for expect: CONNECT  
04:05:14: CHAT1: Sending string: \c  
04:05:14: CHAT1: Chat script callback finished, status = Success  
04:05:14: TTY1 PPP Callback Successful - await exec/autoselect pickup  
04:05:16: TTY1: DSR came up  
04:05:16: TTY1: Callback in effect  
04:05:16: tty1: Modem: IDLE->READY  
04:05:16: TTY1: Autoselect started  
04:05:16: As1 LCP: I CONFREQ [Closed] id 0 len 20  
04:05:16: As1 LCP: ACCM 0x00000000 (0x020600000000)  
04:05:16: As1 LCP: MagicNumber 0x000007A0 (0x0506000007A0)  
04:05:16: As1 LCP: PFC (0x0702)  
04:05:16: As1 LCP: ACFC (0x0802)  
04:05:16: As1 LCP: Lower layer not up, discarding packet  
04:05:18: %LINK-3-UPDOWN: Interface Async1, changed state to up  
04:05:18: As1 PPP: Treating connection as a dedicated line  
04:05:18: As1 PPP: Phase is ESTABLISHING, Active Open  
04:05:18: As1 LCP: 0 CONFREQ [Closed] id 225 len 24  
04:05:18: As1 LCP: ACCM 0x000A0000 (0x0206000A0000)  
04:05:18: As1 LCP: AuthProto PAP (0x0304C023)  
04:05:18: As1 LCP: MagicNumber 0xE0FED8A0 (0x0506E0FED8A0)  
04:05:18: As1 LCP: PFC (0x0702)  
04:05:18: As1 LCP: ACFC (0x0802)  
04:05:18: As1 LCP: I CONFACK [REQsent] id 225 len 24  
04:05:18: As1 LCP: ACCM 0x000A0000 (0x0206000A0000)  
04:05:18: As1 LCP: AuthProto PAP (0x0304C023)  
04:05:18: As1 LCP: MagicNumber 0xE0FED8A0 (0x0506E0FED8A0)  
04:05:18: As1 LCP: PFC (0x0702)  
04:05:18: As1 LCP: ACFC (0x0802)  
04:05:19: As1 LCP: I CONFREQ [ACKrcvd] id 0 len 20  
04:05:19: As1 LCP: ACCM 0x00000000 (0x020600000000)  
04:05:19: As1 LCP: MagicNumber 0x000007A0 (0x0506000007A0)  
04:05:19: As1 LCP: PFC (0x0702)  
04:05:19: As1 LCP: ACFC (0x0802)  
04:05:19: As1 LCP: 0 CONFACK [ACKrcvd] id 0 len 20  
04:05:19: As1 LCP: ACCM 0x00000000 (0x020600000000)  
04:05:19: As1 LCP: MagicNumber 0x000007A0 (0x0506000007A0)  
04:05:19: As1 LCP: PFC (0x0702)  
04:05:19: As1 LCP: ACFC (0x0802)  
04:05:19: As1 LCP: State is Open  
04:05:19: As1 PPP: Phase is AUTHENTICATING, by this end  
04:05:19: As1 LCP: I IDENTIFY [Open] id 1 len 18 magic  
0x000007A0 MSRASV4.00  
04:05:19: As1 LCP: I IDENTIFY [Open] id 2 len 21 magic  
0x000007A0 MSRAS-1-ZEKIE  
04:05:19: As1 PAP: I AUTH-REQ id 16 len 24 from "callback2"  
04:05:19: As1 PAP: Authenticating peer callback2  
04:05:19: AAA/AUTHEN: create\_user (0x14A640) user='callback2' ruser=''  
port='Async1' rem\_addr='async' authen\_type=PAP service=PPP priv=1  
04:05:19: AAA/AUTHEN/START (1256800753): port='Async1' list=''  
action=LOGIN service=PPP  
04:05:19: AAA/AUTHEN/START (1256800753): using "default" list  
04:05:19: AAA/AUTHEN/START (1256800753): Method=RADIUS  
04:05:19: RADIUS: Computed extended port value 0:1:  
04:05:19: RADIUS: Initial Transmit id 157 171.68.118.101:1645,  
Access-Request, len 79

04:05:19: Attribute 4 6 0A1F0105  
04:05:19: Attribute 5 6 00000001  
04:05:19: Attribute 61 6 00000000  
04:05:19: Attribute 1 11 63616C6C  
04:05:19: Attribute 2 18 C29C6276  
04:05:19: Attribute 6 6 00000002  
04:05:19: Attribute 7 6 00000001  
04:05:19: RADIUS: Received from id 157 171.68.118.101:1645,  
Access-Accept, len 69  
04:05:19: Attribute 6 6 00000002  
04:05:19: Attribute 7 6 00000001  
04:05:19: Attribute 26 37 00000009011F6C63  
04:05:19: RADIUS: saved authorization data for user 14A640 at 14B1CC  
04:05:19: AAA/AUTHEN (1256800753): status = PASS  
04:05:19: AAA/AUTHOR/LCP As1: Authorize LCP  
04:05:19: AAA/AUTHOR/LCP As1 (1783017574): Port='Async1'  
list='' service=NET  
04:05:19: AAA/AUTHOR/LCP: As1 (1783017574) user='callback2'  
04:05:19: AAA/AUTHOR/LCP: As1 (1783017574) send AV service=ppp  
04:05:19: AAA/AUTHOR/LCP: As1 (1783017574) send AV protocol=lcp  
04:05:19: AAA/AUTHOR/LCP (1783017574) found list "default"  
04:05:19: AAA/AUTHOR/LCP: As1 (1783017574) Method=RADIUS  
04:05:19: RADIUS: cisco AVPair "lcp:callback-dialstring=20367"  
04:05:19: AAA/AUTHOR (1783017574): Post authorization status = PASS\_REPL  
04:05:19: AAA/AUTHOR/LCP As1: Processing AV service=ppp  
04:05:19: AAA/AUTHOR/LCP As1: Processing AV callback-dialstring=20367  
04:05:19: As1 PAP: 0 AUTH-ACK id 16 len 5  
04:05:19: As1 PPP: Phase is UP  
04:05:19: AAA/AUTHOR/FSM As1: (0): Can we start IPCP?  
04:05:19: AAA/AUTHOR/FSM As1 (1621572650): Port='Async1'  
list='' service=NET  
04:05:19: AAA/AUTHOR/FSM: As1 (1621572650) user='callback2'  
04:05:19: AAA/AUTHOR/FSM: As1 (1621572650) send AV service=ppp  
04:05:19: AAA/AUTHOR/FSM: As1 (1621572650) send AV protocol=ip  
04:05:19: AAA/AUTHOR/FSM (1621572650) found list "default"  
04:05:19: AAA/AUTHOR/FSM: As1 (1621572650) Method=RADIUS  
04:05:19: RADIUS: cisco AVPair "lcp:callback-dialstring=20367"  
not applied for ip  
04:05:19: AAA/AUTHOR (1621572650): Post authorization status = PASS\_REPL  
04:05:19: AAA/AUTHOR/FSM As1: We can start IPCP  
04:05:19: As1 IPCP: 0 CONFREQ [Closed] id 24 len 10  
04:05:19: As1 IPCP: Address 10.31.1.5 (0x03060A1F0105)  
04:05:19: As1 IPCP: I CONFREQ [REQsent] id 3 len 40  
04:05:19: As1 IPCP: CompressType VJ 15 slots CompressSlotID (0x0206002D0F01)  
04:05:19: As1 IPCP: Address 0.0.0.0 (0x030600000000)  
04:05:19: As1 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000)  
04:05:19: As1 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000)  
04:05:19: As1 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000)  
04:05:19: As1 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000)  
04:05:19: AAA/AUTHOR/IPCP As1: Start. Her address 0.0.0.0, we want 0.0.0.0  
04:05:19: AAA/AUTHOR/IPCP As1: Processing AV service=ppp  
04:05:19: AAA/AUTHOR/IPCP As1: Authorization succeeded  
04:05:19: AAA/AUTHOR/IPCP As1: Done. Her address 0.0.0.0, we want 0.0.0.0  
04:05:19: As1 IPCP: Using pool 'async'  
04:05:19: As1 IPCP: Pool returned 15.15.15.15  
04:05:19: As1 IPCP: 0 CONFREQ [REQsent] id 3 len 28  
04:05:19: As1 IPCP: CompressType VJ 15 slots CompressSlotID (0x0206002D0F01)  
04:05:19: As1 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000)  
04:05:19: As1 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000)  
04:05:19: As1 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000)  
04:05:19: As1 IPCP: I CONFACK [REQsent] id 24 len 10  
04:05:19: As1 IPCP: Address 10.31.1.5 (0x03060A1F0105)

```

04:05:19: As1 IPCP: I CONFREQ [ACKrcvd] id 4 len 16
04:05:19: As1 IPCP: Address 0.0.0.0 (0x030600000000)
04:05:19: As1 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000)
04:05:19: AAA/AUTHOR/IPCP As1: Start. Her address 0.0.0.0,
we want 15.15.15.15
04:05:19: AAA/AUTHOR/IPCP As1: Processing AV service=ppp
04:05:19: AAA/AUTHOR/IPCP As1: Authorization succeeded
04:05:19: AAA/AUTHOR/IPCP As1: Done. Her address 0.0.0.0,
we want 15.15.15.15
04:05:19: As1 IPCP: O CONFNAK [ACKrcvd] id 4 len 16
04:05:19: As1 IPCP: Address 15.15.15.15 (0x03060F0F0F0F)
04:05:19: As1 IPCP: PrimaryDNS 171.68.118.103 (0x8106AB447667)
04:05:20: As1 IPCP: I CONFREQ [ACKrcvd] id 5 len 16
04:05:20: As1 IPCP: Address 15.15.15.15 (0x03060F0F0F0F)
04:05:20: As1 IPCP: PrimaryDNS 171.68.118.103 (0x8106AB447667)
04:05:20: AAA/AUTHOR/IPCP As1: Start. Her address 15.15.15.15,
we want 15.15.15.15
04:05:20: AAA/AUTHOR/IPCP As1 (2922034935): Port='Async1'
list='' service=NET
04:05:20: AAA/AUTHOR/IPCP: As1 (2922034935) user='callback2'
04:05:20: AAA/AUTHOR/IPCP: As1 (2922034935) send AV service=ppp
04:05:20: AAA/AUTHOR/IPCP: As1 (2922034935) send AV protocol=ip
04:05:20: AAA/AUTHOR/IPCP: As1 (2922034935) send AV addr*15.15.15.15
04:05:20: AAA/AUTHOR/IPCP (2922034935) found list "default"
04:05:20: AAA/AUTHOR/IPCP: As1 (2922034935) Method=RADIUS
04:05:20: RADIUS: cisco AVPair "lcp:callback-dialstring=20367"
not applied for ip
04:05:20: AAA/AUTHOR (2922034935): Post authorization status = PASS_REPL
04:05:20: AAA/AUTHOR/IPCP As1: Reject 15.15.15.15, using 15.15.15.15
04:05:20: AAA/AUTHOR/IPCP As1: Processing AV service=ppp
04:05:20: AAA/AUTHOR/IPCP As1: Processing AV addr*15.15.15.15
04:05:20: AAA/AUTHOR/IPCP As1: Authorization succeeded
04:05:20: AAA/AUTHOR/IPCP As1: Done. Her address 15.15.15.15,
we want 15.15.15.15
04:05:20: As1 IPCP: O CONFACK [ACKrcvd] id 5 len 16
04:05:20: As1 IPCP: Address 15.15.15.15 (0x03060F0F0F0F)
04:05:20: As1 IPCP: PrimaryDNS 171.68.118.103 (0x8106AB447667)
04:05:20: As1 IPCP: State is Open
04:05:20: As1 IPCP: Install route to 15.15.15.15
04:05:20: %LINEPROTO-5-UPDOWN: Line protocol on Interface Async1,
changed state to up

```

## Rappel PPP avec numéro spécifié par l'utilisateur

Les exemples précédents concernaient le rappel à un numéro prédéfini (spécifié dans le serveur). Le rappel peut également être effectué à un numéro spécifié par l'utilisateur ; c'est-à-dire que le numéro de rappel est spécifié comme nul dans le serveur d'authentification. Le routeur demande alors à l'utilisateur un numéro de rappel. Là encore, le test initial doit être effectué avec le rappel local spécifié. Si le rappel local et une chaîne de rappel null ne fonctionnent pas (c'est-à-dire, supprimez la commande `aaa new-model`), le rappel RADIUS ne fonctionnera pas ! Pour spécifier une chaîne de rappel nulle locale au routeur :

<#root>

```
username callback callback-dialstring "" password 0 callback
```

Sur le PC, sous Dial-Up-Networking (Windows NT Server), User Preferences, cochez la case Callback - may ask me during redial if server offer. Une fois l'utilisateur authentifié, une fenêtre s'affiche sur l'ordinateur et indique « Rappel - Vous avez entré « Définir par l'appelant », suivi du reste du message, puis « Entrez le numéro de téléphone du modem ».

## Configurations du serveur

### Configuration du serveur - CiscoSecure NT

- L'utilisateur obtient le mot de passe et le confirme.
- Dans les paramètres de groupe : attribut 006 Service-Type = attribut tramé 007 Framed-Protocol = PPP
- Dans la dernière zone de l'écran, Attributs Cisco RADIUS, cochez la case [009\001 - Paire-AV] et, en dessous, entrez : lcp : callback-dialstring=

### Configuration du serveur - CiscoSecure UNIX

```
rtp-berry# ./ViewProfile -p 9900 -u callback
User Profile Information
user = callback{
profile_id = 34
profile_cycle = 1
radius=Cisco {
check_items= {
2="callback"
}
reply_attributes= {
6=2
7=1
9,1="lcp:callback-dialstring="
}
}
}
```

### Configuration du serveur - Livingston RADIUS

```
callback2 Password = "callback2"
User-Service-Type = Framed-User,
Framed-Protocol = PPP,
cisco-avpair = "lcp:callback-dialstring="
```

# Exemple de sortie de débogage

```
<#root>
```

```
koala#
```

```
show debug
```

```
General OS:
```

```
Modem control/process activation debugging is on
```

```
AAA Authentication debugging is on
```

```
AAA Authorization debugging is on
```

```
Dial on demand:
```

```
Dial on demand events debugging is on
```

```
PPP:
```

```
PPP authentication debugging is on
```

```
PPP protocol negotiation debugging is on
```

```
Chat Scripts:
```

```
Chat scripts activity debugging is on
```

```
Callback:
```

```
Callback activity debugging is on
```

```
Radius protocol debugging is on
```

```
koala#
```

```
02:23:01: TTY1: DSR came up
```

```
02:23:01: tty1: Modem: IDLE->READY
```

```
02:23:01: TTY1: Autoselect started
```

```
02:23:03: TTY1: Autoselect sample 7E
```

```
02:23:03: TTY1: Autoselect sample 7EFF
```

```
02:23:03: TTY1: Autoselect sample 7EFF7D
```

```
02:23:03: TTY1: Autoselect sample 7EFF7D23
```

```
02:23:03: TTY1 Autoselect cmd: ppp negotiate
```

```
02:23:03: TTY1: EXEC creation
```

```
02:23:05: %LINK-3-UPDOWN: Interface Async1, changed state to up
```

```
02:23:05: As1 PPP: Treating connection as a dedicated line
```

```
02:23:05: As1 PPP: Phase is ESTABLISHING, Active Open
```

```
02:23:05: As1 LCP: 0 CONFREQ [Closed] id 27 len 24
```

```
02:23:05: As1 LCP: ACCM 0x000A0000 (0x0206000A0000)
```

```
02:23:05: As1 LCP: AuthProto PAP (0x0304C023)
```

```
02:23:05: As1 LCP: MagicNumber 0xE0A14386 (0x0506E0A14386)
```

```
02:23:05: As1 LCP: PFC (0x0702)
```

```
02:23:05: As1 LCP: ACFC (0x0802)
```

```
02:23:05: As1 LCP: I CONFACK [REQsent] id 27 len 24
```

```
02:23:05: As1 LCP: ACCM 0x000A0000 (0x0206000A0000)
```

```
02:23:05: As1 LCP: AuthProto PAP (0x0304C023)
```

```
02:23:05: As1 LCP: MagicNumber 0xE0A14386 (0x0506E0A14386)
```

```
02:23:05: As1 LCP: PFC (0x0702)
```

```
02:23:05: As1 LCP: ACFC (0x0802)
```

```
02:23:06: As1 LCP: I CONFREQ [ACKrcvd] id 0 len 23
```

```
02:23:06: As1 LCP: ACCM 0x00000000 (0x020600000000)
```

```
02:23:06: As1 LCP: MagicNumber 0x0000152B (0x05060000152B)
```

```
02:23:06: As1 LCP: PFC (0x0702)
```

```
02:23:06: As1 LCP: ACFC (0x0802)
```

```
02:23:06: As1 LCP: Callback 6 (0x0D0306)
```

```
02:23:06: As1 LCP: 0 CONFACK [ACKrcvd] id 0 len 23
```

```
02:23:06: As1 LCP: ACCM 0x00000000 (0x020600000000)
```

```
02:23:06: As1 LCP: MagicNumber 0x0000152B (0x05060000152B)
```

```
02:23:06: As1 LCP: PFC (0x0702)
```

```
02:23:06: As1 LCP: ACFC (0x0802)
```

02:23:06: As1 LCP: Callback 6 (0x0D0306)  
02:23:06: As1 LCP: State is Open  
02:23:06: As1 PPP: Phase is AUTHENTICATING, by this end  
02:23:06: As1 LCP: I IDENTIFY [Open] id 1 len 18 magic  
0x0000152B MSRASV4.00  
02:23:06: As1 LCP: I IDENTIFY [Open] id 2 len 21 magic  
0x0000152B MSRAS-1-ZEKIE  
02:23:06: As1 PAP: I AUTH-REQ id 64 len 22 from "userspec"  
02:23:06: As1 PAP: Authenticating peer userspec  
02:23:06: AAA/AUTHEN: create\_user (0x16E284) user='userspec' ruser=''  
port='Async1' rem\_addr='async' authen\_type=PAP service=PPP priv=1  
02:23:06: AAA/AUTHEN/START (835406208): port='Async1' list=''  
action=LOGIN service=PPP  
02:23:06: AAA/AUTHEN/START (835406208): using "default" list  
02:23:06: AAA/AUTHEN (835406208): status = UNKNOWN  
02:23:06: AAA/AUTHEN/START (835406208): Method=RADIUS  
02:23:06: RADIUS: Computed extended port value 0:1:  
02:23:06: RADIUS: Initial Transmit id 25 171.68.120.194:1645,  
Access-Request, len 78  
02:23:06: Attribute 4 6 0A1F0105  
02:23:06: Attribute 5 6 00000001  
02:23:06: Attribute 61 6 00000000  
02:23:06: Attribute 1 10 75736572  
02:23:06: Attribute 2 18 E1377DA0  
02:23:06: Attribute 6 6 00000002  
02:23:06: Attribute 7 6 00000001  
02:23:06: RADIUS: Received from id 25 171.68.120.194:1645,  
Access-Accept, len 64  
02:23:06: Attribute 6 6 00000002  
02:23:06: Attribute 7 6 00000001  
02:23:06: Attribute 26 32 00000009011A6C63  
02:23:06: RADIUS: saved authorization data for user 16E284 at A1B44  
02:23:06: AAA/AUTHEN (835406208): status = PASS  
02:23:06: AAA/AUTHOR/LCP As1: Authorize LCP  
02:23:06: AAA/AUTHOR/LCP As1 (2812925385): Port='Async1'  
list='' service=NET  
02:23:06: AAA/AUTHOR/LCP: As1 (2812925385) user='userspec'  
02:23:06: AAA/AUTHOR/LCP: As1 (2812925385) send AV service=ppp  
02:23:06: AAA/AUTHOR/LCP: As1 (2812925385) send AV protocol=lcp  
02:23:06: AAA/AUTHOR/LCP (2812925385) found list "default"  
02:23:06: AAA/AUTHOR/LCP: As1 (2812925385) Method=RADIUS

*!--- Callback dialstring is empty (null).*

02:23:06: RADIUS: cisco AVPair "lcp:callback-dialstring="  
02:23:06: AAA/AUTHOR (2812925385): Post authorization status = PASS\_REPL  
02:23:06: AAA/AUTHOR/LCP As1: Processing AV service=ppp  
02:23:06: AAA/AUTHOR/LCP As1: Processing AV callback-dialstring=  
02:23:06: As1 PAP: 0 AUTH-ACK id 64 len 5

*!--- Router recognizes that it is to receive number from client !--- and starts sending requests to PC.*

02:23:06: As1 MCB: User userspec Callback Number - Client ANY  
02:23:06: Async1 PPP: 0 MCB Request(1) id 92 len 9  
02:23:06: Async1 MCB: 0 1 5C 0 9 2 5 0 1 0  
02:23:06: As1 MCB: 0 Request Id 92 Callback Type Client-Num delay 0  
02:23:07: %LINEPROTO-5-UPDOWN: Line protocol on Interface Async1,  
changed state to up

*!--- Router receives response from PC.*

02:23:09: Async1 PPP: I MCB Response(2) id 92 len 14

02:23:09: Async1 MCB: I 2 5C 0 E 2 A C 1 32 30 33 36 37 0  
02:23:09: As1 MCB: Received response

*!--- Received callback number from the client.*

02:23:09: As1 MCB: Response CBK-Client-Num 2 10 12, addr 1-20367  
02:23:09: Async1 PPP: 0 MCB Ack(3) id 93 len 14  
02:23:09: Async1 MCB: 0 3 5D 0 E 2 A C 1 32 30 33 36 37 0  
02:23:09: As1 MCB: 0 Ack Id 93 Callback Type Client-Num delay 12  
02:23:09: As1 MCB: Negotiated MCB with peer  
02:23:09: As1 LCP: I TERMREQ [Open] id 3 len 8 (0x00000000)  
02:23:09: As1 LCP: 0 TERMACK [Open] id 3 len 4  
02:23:09: As1 MCB: Peer terminating the link  
02:23:09: As1 PPP: Phase is TERMINATING  
02:23:09: As1 MCB: Link terminated by peer, Callback Needed

*!--- Callback is initiated.*

02:23:09: As1 MCB: Initiate Callback for userspec at 20367 using Async  
02:23:09: TTY1 Callback user dialstring 20367 from PPP negotiation  
02:23:09: As1 MCB: Async-callback in progress  
02:23:09: TTY1 Callback PPP process creation  
02:23:09: As1 AAA/ACCT: Using PPP accounting list ""  
02:23:09: TTY1 Callback process initiated, user: dialstring 20367  
02:23:09: %LINEPROTO-5-UPDOWN: Line protocol on Interface Async1,  
changed state to down  
02:23:10: TTY1: Async Int reset: Dropping DTR  
02:23:11: As1 LCP: TIMEOUT: Time 0x831824 State TERMSent  
02:23:11: As1 LCP: State is Closed  
02:23:11: As1 PPP: Phase is DOWN  
02:23:11: As1 VP: Cleaning already proceeding  
02:23:11: As1 PPP: Phase is ESTABLISHING, Passive Open  
02:23:11: AAA/AUTHEN: dup\_user (0x16E558) user='userspec' ruser=''  
port='Async1' rem\_addr='async' authen\_type=PAP service=PPP  
priv=1 source='AAA dup lcp\_reset'  
02:23:11: AAA/AUTHEN: Method=IF-NEEDED: no authentication needed.  
user='userspec' port='Async1' rem\_addr='async'  
02:23:11: As1 LCP: State is Listen  
02:23:11: AAA/AUTHEN: free\_user (0x16E284) user='userspec' ruser=''  
port='Async1' rem\_addr='async' authen\_type=PAP service=PPP priv=1  
02:23:12: %LINK-5-CHANGED: Interface Async1, changed state to reset  
02:23:12: As1 LCP: State is Closed  
02:23:12: As1 PPP: Phase is DOWN  
02:23:12: As1 VP: Cleaning already proceeding  
02:23:12: As1 IPCP: Remove route to 15.15.15.15  
02:23:15: AAA/AUTHEN: free\_user (0x16E558) user='userspec' ruser=''  
port='Async1' rem\_addr='async' authen\_type=PAP service=PPP priv=1  
02:23:15: TTY1 Callback forced wait = 4 seconds  
02:23:17: %LINK-3-UPDOWN: Interface Async1, changed state to down  
02:23:17: As1 LCP: State is Closed  
02:23:17: As1 PPP: Phase is DOWN  
02:23:17: As1 VP: Cleaning already proceeding  
02:23:19: CHAT1: Matched chat script offhook to string offhook  
02:23:19: CHAT1: Asserting DTR  
02:23:19: CHAT1: Chat script offhook started  
02:23:19: CHAT1: Sending string: ATH1  
02:23:19: CHAT1: Expecting string: OK  
02:23:19: CHAT1: Completed match for expect: OK  
02:23:19: CHAT1: Chat script offhook finished, status = Success  
02:23:19: CHAT1: Matched chat script callback to string callback  
02:23:19: CHAT1: Asserting DTR  
02:23:19: CHAT1: Chat script callback started

02:23:19: CHAT1: Sending string: ATZ  
02:23:19: CHAT1: Expecting string: OK  
02:23:19: CHAT1: Completed match for expect: OK  
02:23:19: CHAT1: Sending string: ATDT \T<20367>  
02:23:19: CHAT1: Expecting string: CONNECT  
02:23:35: CHAT1: Completed match for expect: CONNECT  
02:23:35: CHAT1: Sending string: \c  
02:23:35: CHAT1: Chat script callback finished, status = Success  
02:23:35: TTY1 PPP Callback Successful - await exec/autoselect pickup  
02:23:37: TTY1: DSR came up  
02:23:37: TTY1: Callback in effect  
02:23:37: tty1: Modem: IDLE->READY  
02:23:37: TTY1: Autoselect started  
02:23:37: As1 LCP: I CONFREQ [Closed] id 0 len 20  
02:23:37: As1 LCP: ACCM 0x00000000 (0x020600000000)  
02:23:37: As1 LCP: MagicNumber 0x00005156 (0x050600005156)  
02:23:37: As1 LCP: PFC (0x0702)  
02:23:37: As1 LCP: ACFC (0x0802)  
02:23:37: As1 LCP: Lower layer not up, discarding packet  
02:23:39: %LINK-3-UPDOWN: Interface Async1, changed state to up  
02:23:39: As1 PPP: Treating connection as a dedicated line  
02:23:39: As1 PPP: Phase is ESTABLISHING, Active Open  
02:23:39: As1 LCP: 0 CONFREQ [Closed] id 28 len 24  
02:23:39: As1 LCP: ACCM 0x000A0000 (0x0206000A0000)  
02:23:39: As1 LCP: AuthProto PAP (0x0304C023)  
02:23:39: As1 LCP: MagicNumber 0xE0A1CAB2 (0x0506E0A1CAB2)  
02:23:39: As1 LCP: PFC (0x0702)  
02:23:39: As1 LCP: ACFC (0x0802)  
02:23:40: As1 LCP: I CONFACK [REQsent] id 28 len 24  
02:23:40: As1 LCP: ACCM 0x000A0000 (0x0206000A0000)  
02:23:40: As1 LCP: AuthProto PAP (0x0304C023)  
02:23:40: As1 LCP: MagicNumber 0xE0A1CAB2 (0x0506E0A1CAB2)  
02:23:40: As1 LCP: PFC (0x0702)  
02:23:40: As1 LCP: ACFC (0x0802)  
02:23:40: As1 LCP: I CONFREQ [ACKrcvd] id 0 len 20  
02:23:40: As1 LCP: ACCM 0x00000000 (0x020600000000)  
02:23:40: As1 LCP: MagicNumber 0x00005156 (0x050600005156)  
02:23:40: As1 LCP: PFC (0x0702)  
02:23:40: As1 LCP: ACFC (0x0802)  
02:23:40: As1 LCP: 0 CONFACK [ACKrcvd] id 0 len 20  
02:23:40: As1 LCP: ACCM 0x00000000 (0x020600000000)  
02:23:40: As1 LCP: MagicNumber 0x00005156 (0x050600005156)  
02:23:40: As1 LCP: PFC (0x0702)  
02:23:40: As1 LCP: ACFC (0x0802)  
02:23:40: As1 LCP: State is Open  
02:23:40: As1 PPP: Phase is AUTHENTICATING, by this end  
02:23:41: As1 LCP: I IDENTIFY [Open] id 1 len 18 magic  
0x00005156 MSRASV4.00  
02:23:41: As1 LCP: I IDENTIFY [Open] id 2 len 21 magic  
0x00005156 MSRAS-1-ZEKIE  
02:23:41: As1 PAP: I AUTH-REQ id 65 len 22 from "userspec"  
02:23:41: As1 PAP: Authenticating peer userspec  
02:23:41: AAA/AUTHEN: create\_user (0x16E284) user='userspec' ruser=''  
port='Async1' rem\_addr='async' authen\_type=PAP service=PPP priv=1  
02:23:41: AAA/AUTHEN/START (2883652190): port='Async1'  
list='' action=LOGIN service=PPP  
02:23:41: AAA/AUTHEN/START (2883652190): using "default" list  
02:23:41: AAA/AUTHEN (2883652190): status = UNKNOWN  
02:23:41: AAA/AUTHEN/START (2883652190): Method=RADIUS  
02:23:41: RADIUS: Computed extended port value 0:1:  
02:23:41: RADIUS: Initial Transmit id 26 171.68.120.194:1645,  
Access-Request, len 78



02:23:41: Attribute 4 6 0A1F0105  
02:23:41: Attribute 5 6 00000001  
02:23:41: Attribute 61 6 00000000  
02:23:41: Attribute 1 10 75736572  
02:23:41: Attribute 2 18 8150DA02  
02:23:41: Attribute 6 6 00000002  
02:23:41: Attribute 7 6 00000001  
02:23:41: RADIUS: Received from id 26 171.68.120.194:1645,  
Access-Accept, len 64  
02:23:41: Attribute 6 6 00000002  
02:23:41: Attribute 7 6 00000001  
02:23:41: Attribute 26 32 00000009011A6C63  
02:23:41: RADIUS: saved authorization data for user 16E284 at A1B44  
02:23:41: AAA/AUTHEN (2883652190): status = PASS  
02:23:41: AAA/AUTHOR/LCP As1: Authorize LCP  
02:23:41: AAA/AUTHOR/LCP As1 (3660077691): Port='Async1'  
list='' service=NET  
02:23:41: AAA/AUTHOR/LCP: As1 (3660077691) user='userspec'  
02:23:41: AAA/AUTHOR/LCP: As1 (3660077691) send AV service=ppp  
02:23:41: AAA/AUTHOR/LCP: As1 (3660077691) send AV protocol=lcp  
02:23:41: AAA/AUTHOR/LCP (3660077691) found list "default"  
02:23:41: AAA/AUTHOR/LCP: As1 (3660077691) Method=RADIUS  
02:23:41: RADIUS: cisco AVPair "lcp:callback-dialstring="  
02:23:41: AAA/AUTHOR (3660077691): Post authorization status = PASS\_REPL  
02:23:41: AAA/AUTHOR/LCP As1: Processing AV service=ppp  
02:23:41: AAA/AUTHOR/LCP As1: Processing AV callback-dialstring=  
02:23:41: As1 PAP: 0 AUTH-ACK id 65 len 5  
02:23:41: As1 PPP: Phase is UP  
02:23:41: AAA/AUTHOR/FSM As1: (0): Can we start IPCP?  
02:23:41: AAA/AUTHOR/FSM As1 (2418882911): Port='Async1'  
list='' service=NET  
02:23:41: AAA/AUTHOR/FSM: As1 (2418882911) user='userspec'  
02:23:41: AAA/AUTHOR/FSM: As1 (2418882911) send AV service=ppp  
02:23:41: AAA/AUTHOR/FSM: As1 (2418882911) send AV protocol=ip  
02:23:41: AAA/AUTHOR/FSM (2418882911) found list "default"  
02:23:41: AAA/AUTHOR/FSM: As1 (2418882911) Method=RADIUS  
02:23:41: RADIUS: cisco AVPair "lcp:callback-dialstring="  
not applied for ip  
02:23:41: AAA/AUTHOR (2418882911): Post authorization  
status = PASS\_REPL  
02:23:41: AAA/AUTHOR/FSM As1: We can start IPCP  
02:23:41: As1 IPCP: 0 CONFREQ [Closed] id 12 len 10  
02:23:41: As1 IPCP: Address 10.31.1.5 (0x03060A1F0105)  
02:23:41: As1 IPCP: I CONFREQ [REQsent] id 3 len 40  
02:23:41: As1 IPCP: CompressType VJ 15 slots  
CompressSlotID (0x0206002D0F01)  
02:23:41: As1 IPCP: Address 0.0.0.0 (0x030600000000)  
02:23:41: As1 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000)  
02:23:41: As1 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000)  
02:23:41: As1 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000)  
02:23:41: As1 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000)  
02:23:41: AAA/AUTHOR/IPCP As1: Start. Her address 0.0.0.0,  
we want 0.0.0.0  
02:23:41: AAA/AUTHOR/IPCP As1: Processing AV service=ppp  
02:23:41: AAA/AUTHOR/IPCP As1: Authorization succeeded  
02:23:41: AAA/AUTHOR/IPCP As1: Done. Her address 0.0.0.0,  
we want 0.0.0.0  
02:23:41: As1 IPCP: Using pool 'async'  
02:23:41: As1 IPCP: Pool returned 15.15.15.15  
02:23:41: As1 IPCP: 0 CONFREQ [REQsent] id 3 len 28  
02:23:41: As1 IPCP: CompressType VJ 15 slots  
CompressSlotID (0x0206002D0F01)

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02:23:41: As1 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000)
02:23:41: As1 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000)
02:23:41: As1 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000)
02:23:41: As1 IPCP: I CONFACK [REQsent] id 12 len 10
02:23:41: As1 IPCP: Address 10.31.1.5 (0x03060A1F0105)
02:23:41: As1 IPCP: I CONFREQ [ACKrcvd] id 4 len 16
02:23:41: As1 IPCP: Address 0.0.0.0 (0x030600000000)
02:23:41: As1 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000)
02:23:41: AAA/AUTHOR/IPCP As1: Start. Her address 0.0.0.0,
we want 15.15.15.15
02:23:41: AAA/AUTHOR/IPCP As1: Processing AV service=ppp
02:23:41: AAA/AUTHOR/IPCP As1: Authorization succeeded
02:23:41: AAA/AUTHOR/IPCP As1: Done. Her address 0.0.0.0,
we want 15.15.15.15
02:23:41: As1 IPCP: O CONFNAK [ACKrcvd] id 4 len 16
02:23:41: As1 IPCP: Address 15.15.15.15 (0x03060F0F0F0F)
02:23:41: As1 IPCP: PrimaryDNS 171.68.118.103 (0x8106AB447667)
02:23:41: As1 IPCP: I CONFREQ [ACKrcvd] id 5 len 16
02:23:41: As1 IPCP: Address 15.15.15.15 (0x03060F0F0F0F)
02:23:41: As1 IPCP: PrimaryDNS 171.68.118.103 (0x8106AB447667)
02:23:41: AAA/AUTHOR/IPCP As1: Start. Her address 15.15.15.15,
we want 15.15.15.15
02:23:41: AAA/AUTHOR/IPCP As1 (2792483333): Port='Async1'
list='' service=NET
02:23:41: AAA/AUTHOR/IPCP: As1 (2792483333) user='userspec'
02:23:41: AAA/AUTHOR/IPCP: As1 (2792483333) send AV service=ppp
02:23:41: AAA/AUTHOR/IPCP: As1 (2792483333) send AV protocol=ip
02:23:41: AAA/AUTHOR/IPCP: As1 (2792483333) send AV addr*15.15.15.15
02:23:41: AAA/AUTHOR/IPCP (2792483333) found list "default"
02:23:41: AAA/AUTHOR/IPCP: As1 (2792483333) Method=RADIUS
02:23:41: RADIUS: cisco AVPair "lcp:callback-dialstring="
not applied for ip
02:23:41: AAA/AUTHOR (2792483333): Post authorization status = PASS_REPL
02:23:41: AAA/AUTHOR/IPCP As1: Reject 15.15.15.15, using 15.15.15.15
02:23:41: AAA/AUTHOR/IPCP As1: Processing AV service=ppp
02:23:41: AAA/AUTHOR/IPCP As1: Processing AV addr*15.15.15.15
02:23:41: AAA/AUTHOR/IPCP As1: Authorization succeeded
02:23:41: AAA/AUTHOR/IPCP As1: Done. Her address 15.15.15.15,
we want 15.15.15.15
02:23:41: As1 IPCP: O CONFACK [ACKrcvd] id 5 len 16
02:23:41: As1 IPCP: Address 15.15.15.15 (0x03060F0F0F0F)
02:23:41: As1 IPCP: PrimaryDNS 171.68.118.103 (0x8106AB447667)
02:23:41: As1 IPCP: State is Open
02:23:41: dialer Protocol up for As1
02:23:41: As1 IPCP: Install route to 15.15.15.15
02:23:42: %LINEPROTO-5-UPDOWN: Line protocol on Interface Async1,
changed state to up
```

## Informations connexes

- [Page d'assistance RADIUS](#)
- [Cisco Secure ACS pour la page d'assistance de Windows](#)
- [Page d'assistance Cisco Secure ACS pour UNIX](#)
- [Demandes de commentaires \(RFC\)](#)
- [Assistance et documentation techniques - Cisco Systems](#)

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