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## [Introduction](#)

Ce document examine des problèmes communs d'élimination des imperfections pour le RAYON en utilisant le Password Authentication Protocol (PAP) ou le protocole d'authentification CHAP (Challenge Handshake Authentication Protocol). Les configurations communes PC pour le Microsoft Windows 95, le Windows NT, le Windows 98, et le Windows 2000 est fourni, aussi bien que les exemples des configurations et les exemples de bon et de mauvais met au point.

## [Avant de commencer](#)

### [Conventions](#)

Pour plus d'informations sur les conventions des documents, référez-vous aux [Conventions utilisées pour les conseils techniques de Cisco](#).

### [Conditions préalables](#)

Aucune condition préalable spécifique n'est requise pour ce document.

### [Composants utilisés](#)

Les informations dans ce document sont basées sur des versions de logiciel 11.2 et ultérieures de

Cisco IOS®.

Les informations présentées dans ce document ont été créées à partir de périphériques dans un environnement de laboratoire spécifique. Tous les périphériques utilisés dans ce document ont démarré avec une configuration effacée (par défaut). Si vous travaillez dans un réseau opérationnel, assurez-vous de bien comprendre l'impact potentiel de toute commande avant de l'utiliser.

## Configuration commune PC

### Windows 95

Suivez les instructions fournies ci-dessous :

1. Dans la fenêtre d'accès réseau à distance, sélectionnez le nom de la connexion, puis le **fichier > le Properties**.
2. Sur l'onglet Type de serveur, voyez si la case de **Require Encrypted Password** sous le type de serveur commuté est cochée. Si cette case est cochée, il signifie que le PC reçoit seulement l'authentification CHAP. Si cette case n'est pas cochée, il signifie que le PC reçoit le PAP ou l'authentification CHAP.

### Windows NT

Suivez les instructions fournies ci-dessous :

1. Dans la fenêtre commutée de réseau, sélectionnez le nom de la connexion, et puis sélectionnez le **fichier > le Properties**.
2. Vérifiez les configurations sur l'onglet Sécurité : Si le **recevoir n'importe quelle authentification comprenant la zone de texte claire** est coché, ceci signifie que le PC reçoit le PAP ou le CHAP. Si la case **chiffrée d'authentification de recevoir seulement** est cochée, le PC reçoit seulement l'authentification CHAP.

### Windows 98

Suivez les instructions fournies ci-dessous :

1. Dans la fenêtre commutée de réseau, sélectionnez le nom de la connexion, et puis sélectionnez **Properties**.
2. Sur les types de serveur tabulez, vérifiez les configurations dans la région avancée d'options : Si la case de **mot de passe chiffré d'exigence** est décochée, ceci signifie que le PC reçoit le PAP ou l'authentification CHAP. Si la case de **mot de passe chiffré d'exigence** est cochée, ceci signifie que le PC reçoit seulement l'authentification CHAP.

### Windows 2000

Suivez les instructions fournies ci-dessous :

1. Dans des connexions de réseau et de connexion à distance, sélectionnez le nom de la

connexion, et puis sélectionnez **Properties**.

2. Sur l'onglet Sécurité, vérifiez les configurations dans l'**avancé > des configurations > permettent à ceux-ci la zone de protocoles** : Si la case du mot de passe non chiffré (PAP) est cochée, le PC reçoit le PAP. Si la case de protocole d'authentification CHAP (Challenge Handshake Authentication Protocol) est cochée, le PC reçoit le CHAP par [RFC 1994](#). Si la case du CHAP de Microsoft (MS-CHAP) est cochée, le PC reçoit la version 1 MS-CHAP et ne reçoit pas le CHAP par RFC 1994.

## Configurations et exemples de debug

### RAYON et PAP

#### Configuration - RAYON et PAP

```
Current configuration:!  
version 11.2  
service timestamps  
debug uptime  
no service password-encryption  
service udp-small-servers  
service tcp-small-servers  
hostname rtpkrb  
aaa new-model  
!--- The following four command lines are specific to !--- Cisco IOS 11.2 and later, up until 11.3.3.T. !--- See below this configuration for commands !--- for other Cisco IOS releases.  
aaa authentication login default radius local  
aaa authentication ppp default if-needed radius local  
aaa authorization exec radius if-authenticated  
aaa authorization network radius if-authenticated  
enable secret 5 $1$pkX.$JdAysRE1SbdbDe7bj0wyt0  
enable password ww  
username john password 0 doe  
username cse password 0 csecseip  
host rtpkrb 10.31.1.5  
ip domain-name RTP.CISCO.COM  
ip name-server 171.68.118.103  
interface Loopback0  
ip address 1.1.1.1 255.255.255.0  
interface Ethernet0  
ip address 10.31.1.5 255.255.0.0  
no mop enabled  
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 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  
password ww  
autoselect during-login  
autoselect ppp 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  
password ww  
end
```

### Commandes pour d'autres versions de Cisco IOS

**Remarque:** Pour utiliser ces commandes, retirez les commandes mises en valeur de la configuration ci-dessus et collez ces commandes dedans, comme dicté par votre Cisco IOS libérez.

Cisco IOS 11.3.3.T jusqu'à 12.0.5.T

```

Current configuration:!version 11.2service timestamps debug uptime
no service password-encryption
service udp-small-servers
service tcp-small-servers!hostname rtpkrb!aaa new-model!---
The following four command lines are specific to !--- Cisco IOS 11.2 and later, up until
11.3.3.T. !--- See below this configuration for commands !--- for other Cisco IOS releases.!aaa
authentication login default radius localaaa authentication ppp default if-needed radius
localaaa authorization exec radius if-authenticatedaaa authorization network radius if-
authenticated!enable secret 5 $l$pkX.$JdAySRElSbdbDe7bj0wyt0enable password ww!username john
password 0 doeusername cse password 0 csecseip host rtpkrb 10.31.1.5ip domain-name
RTP.CISCO.COMip name-server 171.68.118.103!interface Loopback0ip address 1.1.1.1
255.255.255.0!interface Ethernet0ip address 10.31.1.5 255.255.0.0no mop enabled!interface
Serial0no ip addressno ip mroute-cacheshutdown!interface Serial1no ip addressshutdown!interface
Asyncl1unnumbered Ethernet0encapsulation pppasync mode dedicatedpeer default ip address pool
asynccno cdp enableppp authentication pap!ip local pool async 15.15.15.15ip classlessip route
0.0.0.0 0.0.0.0 10.31.1.1!snmp-server community public RWsnmp-server host 171.68.118.100 traps
publicradius-server host 171.68.118.101 auth-port 1645 acct-port 1646radius-server key
cisco!line con 0line 1session-timeout 20 exec-timeout 20 0password wwautoselect during-
loginautoselect pppmodem InOuttransport input allstopbits 1speed 38400flowcontrol hardwareline
2modem InOutspeed 38400flowcontrol hardwareline 3 16line aux 0line vty 0 4exec-timeout 0
0password ww!end

```

## Cisco IOS 12.0.5.T et plus tard

```

Current configuration:!version 11.2service timestamps debug uptime
no service password-encryption
service udp-small-servers
service tcp-small-servers!hostname rtpkrb!aaa new-model!---
The following four command lines are specific to !--- Cisco IOS 11.2 and later, up until
11.3.3.T. !--- See below this configuration for commands !--- for other Cisco IOS releases.!aaa
authentication login default radius localaaa authentication ppp default if-needed radius
localaaa authorization exec radius if-authenticatedaaa authorization network radius if-
authenticated!enable secret 5 $l$pkX.$JdAySRElSbdbDe7bj0wyt0enable password ww!username john
password 0 doeusername cse password 0 csecseip host rtpkrb 10.31.1.5ip domain-name
RTP.CISCO.COMip name-server 171.68.118.103!interface Loopback0ip address 1.1.1.1
255.255.255.0!interface Ethernet0ip address 10.31.1.5 255.255.0.0no mop enabled!interface
Serial0no ip addressno ip mroute-cacheshutdown!interface Serial1no ip addressshutdown!interface
Asyncl1unnumbered Ethernet0encapsulation pppasync mode dedicatedpeer default ip address pool
asynccno cdp enableppp authentication pap!ip local pool async 15.15.15.15ip classlessip route
0.0.0.0 0.0.0.0 10.31.1.1!snmp-server community public RWsnmp-server host 171.68.118.100 traps
publicradius-server host 171.68.118.101 auth-port 1645 acct-port 1646radius-server key
cisco!line con 0line 1session-timeout 20 exec-timeout 20 0password wwautoselect during-
loginautoselect pppmodem InOuttransport input allstopbits 1speed 38400flowcontrol hardwareline
2modem InOutspeed 38400flowcontrol hardwareline 3 16line aux 0line vty 0 4exec-timeout 0
0password ww!end

```

## Debugs d'échantillon - RAYON et PAP

**Remarque:** Dans la sortie de débogage, le texte en gras met en valeur des problèmes dans le débogage. Le texte brut indique qu'un bon met au point.

```

rtpkrb#rtpkrb#sho debGeneral OS:AAA Authentication debugging is onAAA Authorization debugging is
onPPP:PPP authentication debugging is onPPP protocol negotiation debugging is onRadius protocol
debugging is onrtpkrb#4d02h: As1 LCP: I CONFREQ [Closed] id 0 len 204d02h: As1 LCP: ACCM
0x00000000 (0x020600000000)4d02h: As1 LCP: MagicNumber 0x00001F67 (0x050600001F67)4d02h: As1
LCP: PFC (0x0702)4d02h: As1 LCP: ACFC (0x0802)4d02h: As1 LCP: Lower layer not up, discarding
packet%LINK-3-UPDOWN: Interface Async1, changed state to up4d02h: As1 PPP: Treating connection
as a dedicated line4d02h: As1 PPP: Phase is ESTABLISHING, Active Open4d02h: As1 LCP: O CONFREQ
[Closed] id 85 len 244d02h: As1 LCP: ACCM 0x000A0000 (0x0206000A0000)4d02h: As1 LCP: AuthProto
PAP (0x0304C023)4d02h: As1 LCP: MagicNumber 0xF54252D5 (0x0506F54252D5)4d02h: As1 LCP: PFC
(0x0702)4d02h: As1 LCP: ACFC (0x0802)PC insists on doing chap ('accept encrypted authentication
only'), but router is set up for pap:As1 LCP: I CONFNAK [REQsent] id 98 len 12As1 LCP:
AuthProto 0xC123 (0x0308C12301000001)As1 LCP: O CONFREQ [REQsent] id 99 len 24As1 LCP: ACCM
0x000A0000 (0x0206000A0000)As1 LCP: AuthProto PAP (0x0304C023)As1 LCP: MagicNumber 0xF54D1AF8
(0x0506F54D1AF8)As1 LCP: PFC (0x0702)As1 LCP: ACFC (0x0802)As1 LCP: I CONFREQ [REQsent] id 99
len 8As1 LCP: AuthProto PAP (0x0304C023)As1 PPP: Closing connection because remote won't
authenticate4d02h: As1 LCP: I CONFACK [REQsent] id 85 len 244d02h: As1 LCP: ACCM 0x000A0000

```

(0x0206000A0000)4d02h: As1 LCP: AuthProto PAP (0x0304C023)4d02h: As1 LCP: MagicNumber 0xF54252D5 (0x0506F54252D5)4d02h: As1 LCP: PFC (0x0702)4d02h: As1 LCP: ACFC (0x0802)4d02h: As1 LCP: I CONFREQ [ACKrcvd] id 0 len 204d02h: As1 LCP: ACCM 0x00000000 (0x020600000000)4d02h: As1 LCP: MagicNumber 0x00001F67 (0x050600001F67)4d02h: As1 LCP: PFC (0x0702)4d02h: As1 LCP: ACFC (0x0802)4d02h: As1 LCP: O CONFACK [ACKrcvd] id 0 len 204d02h: As1 LCP: ACCM 0x00000000 (0x020600000000)4d02h: As1 LCP: MagicNumber 0x00001F67 (0x050600001F67)4d02h: As1 LCP: PFC (0x0702)4d02h: As1 LCP: ACFC (0x0802)4d02h: As1 LCP: State is Open4d02h: As1 PPP: Phase is AUTHENTICATING, by this end4d02h: As1 PAP: I AUTH-REQ id 14 len 19 from "ddunlap"4d02h: As1 PAP: Authenticating peer ddunlap4d02h: AAA/AUTHEN: create\_user (0x15AD58) user='ddunlap' ruser='' port='Async1' rem\_addr='async' authen\_type=PAP service=PPP priv=14d02h: AAA/AUTHEN/START (1953436918): port='Async1' list='' action=LOGIN service=PPP4d02h: AAA/AUTHEN/START (1953436918): using "default" list4d02h: AAA/AUTHEN (1953436918): status = UNKNOWN4d02h: AAA/AUTHEN/START (1953436918): Method=RADIUS4d02h: RADIUS: Initial Transmit id 7 171.68.118.101:1645, Access-Request, len 774d02h: Attribute 4 6 0A1F01054d02h: Attribute 5 6 000000014d02h: Attribute 6 1 6 000000004d02h: Attribute 1 9 6464756E4d02h: Attribute 2 18 7882E0A54d02h: Attribute 6 6 000000024d02h: Attribute 7 6 00000001Radius server is down - produces ERROR - since user is not in local database, failover to local FAILAs1 PAP: I AUTH-REQ id 16 len 19 from "ddunlap"As1 AUTH: Duplicate authentication request id=16 already in progressAs1 PAP: I AUTH-REQ id 17 len 19 from "ddunlap"As1 AUTH: Duplicate authentication request id=17 already in progressRADIUS: Retransmit id 9As1 PAP: I AUTH-REQ id 18 len 19 from "ddunlap"As1 AUTH: Duplicate authentication request id=18 already in progressAs1 PAP: I AUTH-REQ id 19 len 19 from "ddunlap"As1 AUTH: Duplicate authentication request id=19 already in progressAs1 PAP: I AUTH-REQ id 20 len 19 from "ddunlap"As1 AUTH: Duplicate authentication request id=20 already in progressRADIUS: Retransmit id 9As1 PAP: I AUTH-REQ id 21 len 19 from "ddunlap"As1 AUTH: Duplicate authentication request id=21 already in progressAs1 PAP: I AUTH-REQ id 22 len 19 from "ddunlap"As1 AUTH: Duplicate authentication request id=22 already in progressRADIUS: Retransmit id 9As1 PAP: I AUTH-REQ id 23 len 19 from "ddunlap"As1 AUTH: Duplicate authentication request id=23 already in progressAs1 LCP: I TERMREQ [Open] id 1 len 8 (0x000002CE)As1 LCP: O TERMACK [Open] id 1 len 4As1 PPP: Phase is TERMINATINGRADIUS: No response for id 9%RADIUS-3-ALLDEADSERVER: No active radius servers found. Id 9.RADIUS: No response from serverAAA/AUTHEN (3025998849): status = ERRORAAA/AUTHEN/START (3025998849): Method=LOCALAAA/AUTHEN (3025998849): status = FAILKey in router does not match that of server:RADIUS: Received from id 21 171.68.118.101:1645, Access-Reject, len 20RADIUS: Reply for 21 fails decryptNT client sends 'DOMAIN\user' and Radius server expects 'user':RADIUS: Received from id 11 171.68.118.101:1645, Access-Reject, len 20AAA/AUTHEN (1406749115): status = FAILAs1 PAP: O AUTH-NAK id 25 len 32 msg is "Password validation failure"As1 PPP: Phase is TERMINATINGAs1 LCP: O TERMREQ [Open] id 108 len 4AAA/AUTHEN: free\_user (0xDA520) user='CISCO\ddunlap' ruser='' port='Async1' rem\_addr='async' authen\_type=PAP service=PPP priv=1Radius server refuses user because user user enters bad password, or both userid & password are bad:RADIUS: Received from id 12 171.68.118.101:1645, Access-Reject, len 20AAA/AUTHEN (733718529): status = FAILAs1 PAP: O AUTH-NAK id 26 len 32 msg is "Password validation failure"As1 PPP: Phase is TERMINATINGAs1 LCP: O TERMREQ [Open] id 111 len 4AAA/AUTHEN: free\_user (0x15B030) user='ddunlap' ruser='' port='Async1' rem\_addr='async' authen\_type=PAP service=PPP priv=1User passes authentication (i.e. username/password is good) but fails authorization (profile not set up for Service-Type=Framed & Framed-Protocol=PPP):RADIUS: Received from id 13 171.68.118.101:1645, Access-Accept, len 20RADIUS: saved authorization data for user 15AD58 at 15ADF0AAA/AUTHEN (56862281): status = PASSAAA/AUTHOR/LCP As1: Authorize LCPAAA/AUTHOR/LCP: Async1: (959162008): user='cse'AAA/AUTHOR/LCP: Async1: (959162008): send AV service=pppAAA/AUTHOR/LCP: Async1: (959162008): send AV protocol=lcpAAA/AUTHOR/LCP: Async1: (959162008): Method=RADIUSRADIUS: no appropriate authorization type for user.AAAA/AUTHOR (959162008): Post authorization status = FAILAAA/AUTHOR/LCP As1: DeniedAAA/AUTHEN: free\_user (0x15AD58) user='cse' ruser='' port='Async1' rem\_addr='async' authen\_type=PAP service=PPP priv=1As1 PAP: O AUTH-NAK id 27 len 25 msg is "Authorization failed"4d02h: RADIUS: Received from id 7 171.68.118.101:1645, Access-Accept, len 324d02h: Attribute 6 6 000000024d02h: Attribute 7 6 000000014d02h: RADIUS: saved authorization data for user 15AD58 at 16C7F44d02h: AAA/AUTHEN (1953436918): status = PASS4d02h: AAA/AUTHOR/LCP As1: Authorize LCP4d02h: AAA/AUTHOR/LCP: Async1: (2587233868): user='ddunlap'4d02h: AAA/AUTHOR/LCP: Async1: (2587233868): send AV service=ppp4d02h: AAA/AUTHOR/LCP: Async1: (2587233868): send AV protocol=lcp4d02h: AAA/AUTHOR/LCP: Async1: (2587233868): Method=RADIUS4d02h: AAA/AUTHOR (2587233868): Post authorization status = PASS\_REPL4d02h: AAA/AUTHOR/LCP As1: Processing AV service=ppp4d02h: As1 PAP: O AUTH-ACK id 14 len 54d02h: As1 PPP: Phase is UP4d02h: AAA/AUTHOR/FSM As1: (0): Can we start IPCP?4d02h: AAA/AUTHOR/FSM: Async1: (423372862): user='ddunlap'4d02h: AAA/AUTHOR/FSM: Async1: (423372862): send AV service=ppp4d02h: AAA/AUTHOR/FSM: Async1: (423372862): send AV protocol=ip4d02h:

```

AAA/AUTHOR/FSM: Async1: (423372862): Method=RADIUS4d02h: AAA/AUTHOR (423372862): Post
authorization status = PASS_REPL4d02h: AAA/AUTHOR/FSM As1: We can start IPCP4d02h: As1 IPCP: O
CONFREQ [Closed] id 17 len 104d02h: As1 IPCP: Address 10.31.1.5 (0x03060A1F0105)4d02h: As1 IPCP:
I CONFREQ [REQsent] id 1 len 344d02h: As1 IPCP: Address 0.0.0.0 (0x030600000000)4d02h: As1 IPCP:
PrimaryDNS 0.0.0.0 (0x810600000000)4d02h: As1 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000)4d02h:
As1 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000)4d02h: As1 IPCP: SecondaryWINS 0.0.0.0
(0x840600000000)4d02h: AAA/AUTHOR/IPCP As1: Start. Her address 0.0.0.0, we want 0.0.0.04d02h:
AAA/AUTHOR/IPCP As1: Processing AV service=ppp4d02h: AAA/AUTHOR/IPCP As1: Authorization
succeeded4d02h: AAA/AUTHOR/IPCP As1: Done. Her address 0.0.0.0, we want 0.0.0.04d02h: As1 IPCP:
Using pool 'async'4d02h: As1 IPCP: Pool returned 15.15.15.154d02h: As1 IPCP: O CONFREQ [REQsent]
id 1 len 224d02h: As1 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000)4d02h: As1 IPCP: SecondaryDNS
0.0.0.0 (0x830600000000)4d02h: As1 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000)4d02h: As1 IPCP:
I CONFREQ [REQsent] id 17 len 104d02h: As1 IPCP: Address 10.31.1.5 (0x03060A1F0105)%LINEPROTO-5-
UPDOWN: Line protocol on Interface Async1, changed state to up4d02h: As1 IPCP: I CONFREQ
[ACKrcvd] id 2 len 164d02h: As1 IPCP: Address 0.0.0.0 (0x030600000000)4d02h: As1 IPCP:
PrimaryDNS 0.0.0.0 (0x810600000000)4d02h: AAA/AUTHOR/IPCP As1: Start. Her address 0.0.0.0, we
want 15.15.15.154d02h: AAA/AUTHOR/IPCP As1: Processing AV service=ppp4d02h: AAA/AUTHOR/IPCP As1:
Authorization succeeded4d02h: AAA/AUTHOR/IPCP As1: Done. Her address 0.0.0.0, we want
15.15.15.154d02h: As1 IPCP: O CONFREQ [ACKrcvd] id 2 len 164d02h: As1 IPCP: Address 15.15.15.15
(0x03060F0F0F0F)4d02h: As1 IPCP: PrimaryDNS 171.68.118.103 (0x8106AB447667)4d02h: As1 IPCP: I
CONFREQ [ACKrcvd] id 3 len 164d02h: As1 IPCP: Address 15.15.15.15 (0x03060F0F0F0F)4d02h: As1
IPCP: PrimaryDNS 171.68.118.103 (0x8106AB447667)4d02h: AAA/AUTHOR/IPCP As1: Start. Her address
15.15.15.15, we want 15.15.15.154d02h: AAA/AUTHOR/IPCP: Async1: (4204275250):
user='ddunlap'4d02h: AAA/AUTHOR/IPCP: Async1: (4204275250): send AV service=ppp4d02h:
AAA/AUTHOR/IPCP: Async1: (4204275250): send AV protocol=ip4d02h: AAA/AUTHOR/IPCP: Async1:
(4204275250): send AV addr*15.15.15.154d02h: AAA/AUTHOR/IPCP: Async1: (4204275250):
Method=RADIUS4d02h: AAA/AUTHOR (4204275250): Post authorization status = PASS_REPL4d02h:
AAA/AUTHOR/IPCP As1: Reject 15.15.15.15, using 15.15.15.154d02h: AAA/AUTHOR/IPCP As1: Processing
AV service=ppp4d02h: AAA/AUTHOR/IPCP As1: Processing AV addr*15.15.15.154d02h: AAA/AUTHOR/IPCP
As1: Authorization succeeded4d02h: AAA/AUTHOR/IPCP As1: Done. Her address 15.15.15.15, we want
15.15.15.154d02h: As1 IPCP: O CONFREQ [ACKrcvd] id 3 len 164d02h: As1 IPCP: Address 15.15.15.15
(0x03060F0F0F0F)4d02h: As1 IPCP: PrimaryDNS 171.68.118.103 (0x8106AB447667)4d02h: As1 IPCP:
State is Open4d02h: As1 IPCP: Install route to 15.15.15.15rtpkrb#

```

## RAYON et CHAP

### Configuration - RAYON et CHAP

```

Current configuration: !version 11.2
service timestamps
debug uptime
no service password-encryption
service udp-small-servers
service tcp-small-servers
!hostname
rtpkrb!aaa new-model
!--- The following four command
lines are specific to !--- Cisco IOS 11.2 and later, up
until 11.3.3.T. !--- See below this configuration for
commands !--- for other Cisco IOS releases. !aaa
authentication login default radius localaaa
authentication ppp default if-needed radius localaaa
authorization exec radius if-authenticatedaaa
authorization network radius if-authenticated!enable
secret 5 $!$pkX.$JdAysRElSbdbDe7bj0wyt0enable password
ww!username john password 0 doeusername cse password 0
csecseip host rtpkrb 10.31.1.5ip name-server
171.68.118.103!interface Loopback0ip address 1.1.1.1
255.255.255.0!interface Ethernet0ip address 10.31.1.5
255.255.0.0no mop enabled!interface Serial0no ip
addressno ip mroute-cacheshutdown!interface Serial1no ip
addressshutdown!interface Async1ip unnumbered
Ethernet0encapsulation pppasync mode dedicatedpeer
default ip address pool asyncno cdp enableppp
authentication chap!ip local pool async 15.15.15.15ip
classlessip route 0.0.0.0 0.0.0.0 10.31.1.1!snmp-server
community public RWsnmp-server host 171.68.118.100 traps
publicradius-server host 171.68.118.101 auth-port 1645
acct-port 1646radius-server key cisco!line con 0line

```



```
lsession-timeout 20 exec-timeout 20 0password
wwautoselect during-loginautoselect pppmodem
InOuttransport input allstopbits 1speed 38400flowcontrol
hardwareline 2modem InOutspeed 38400flowcontrol
hardwareline 3 16line aux 0line vty 0 4exec-timeout 0
0password ww!end
```

## Commandes pour d'autres versions de Cisco IOS

**Remarque:** Pour utiliser ces commandes, retirez les commandes mises en valeur de la configuration ci-dessus et collez ces commandes dedans, comme dicté par votre Cisco IOS libérez.

### Cisco IOS 11.3.3.T jusqu'à 12.0.5.T

```
Current configuration:!version 11.2service timestamps debug uptime no service password-
encryption service udp-small-servers service tcp-small-servers!hostname rtpkrb!aaa new-model!---
The following four command lines are specific to !--- Cisco IOS 11.2 and later, up until
11.3.3.T. !--- See below this configuration for commands !--- for other Cisco IOS releases.!aaa
authentication login default radius localaaa authentication ppp default if-needed radius
localaaa authorization exec radius if-authenticatedaaa authorization network radius if-
authenticated!enable secret 5 $1$pkX.$JdAySRE1SbdbDe7bj0wyt0enable password ww!username john
password 0 doeusername cse password 0 csecseip host rtpkrb 10.31.1.5ip name-server
171.68.118.103!interface Loopback0ip address 1.1.1.1 255.255.255.0!interface Ethernet0ip address
10.31.1.5 255.255.0.0no mop enabled!interface Serial0no ip addressno ip mroute-
cacheshutdown!interface Serial1no ip addresssshutdown!interface Async1ip unnumbered
Ethernet0encapsulation pppasync mode dedicatedpeer default ip address pool asyncno cdp enableppp
authentication chap!ip local pool async 15.15.15.15ip classlessip route 0.0.0.0 0.0.0.0
10.31.1.1!snmp-server community public RWSnmp-server host 171.68.118.100 traps publicradius-
server host 171.68.118.101 auth-port 1645 acct-port 1646radius-server key cisco!line con 0line
lsession-timeout 20 exec-timeout 20 0password wwautoselect during-loginautoselect pppmodem
InOuttransport input allstopbits 1speed 38400flowcontrol hardwareline 2modem InOutspeed
38400flowcontrol hardwareline 3 16line aux 0line vty 0 4exec-timeout 0 0password ww!end
```

### Cisco IOS 12.0.5.T et plus tard

```
Current configuration:!version 11.2service timestamps debug uptime no service password-
encryption service udp-small-servers service tcp-small-servers!hostname rtpkrb!aaa new-model!---
The following four command lines are specific to !--- Cisco IOS 11.2 and later, up until
11.3.3.T. !--- See below this configuration for commands !--- for other Cisco IOS releases.!aaa
authentication login default radius localaaa authentication ppp default if-needed radius
localaaa authorization exec radius if-authenticatedaaa authorization network radius if-
authenticated!enable secret 5 $1$pkX.$JdAySRE1SbdbDe7bj0wyt0enable password ww!username john
password 0 doeusername cse password 0 csecseip host rtpkrb 10.31.1.5ip name-server
171.68.118.103!interface Loopback0ip address 1.1.1.1 255.255.255.0!interface Ethernet0ip address
10.31.1.5 255.255.0.0no mop enabled!interface Serial0no ip addressno ip mroute-
cacheshutdown!interface Serial1no ip addresssshutdown!interface Async1ip unnumbered
Ethernet0encapsulation pppasync mode dedicatedpeer default ip address pool asyncno cdp enableppp
authentication chap!ip local pool async 15.15.15.15ip classlessip route 0.0.0.0 0.0.0.0
10.31.1.1!snmp-server community public RWSnmp-server host 171.68.118.100 traps publicradius-
server host 171.68.118.101 auth-port 1645 acct-port 1646radius-server key cisco!line con 0line
lsession-timeout 20 exec-timeout 20 0password wwautoselect during-loginautoselect pppmodem
InOuttransport input allstopbits 1speed 38400flowcontrol hardwareline 2modem InOutspeed
38400flowcontrol hardwareline 3 16line aux 0line vty 0 4exec-timeout 0 0password ww!end
```

### Debugs d'échantillon - RAYON et CHAP

**Remarque:** Dans la sortie de débogage, le texte gras et en italiques met en valeur des problèmes dans le débogage. Le texte brut indique qu'un bon met au point.

rtpkrb#show debugGeneral OS:AAA Authentication debugging is onAAA Authorization debugging is onPPP:PPP authentication debugging is onPPP protocol negotiation debugging is onRadius protocol debugging is onrtpkrb#4d02h: As1 LCP: I CONFREQ [Closed] id 0 len 204d02h: As1 LCP: ACCM 0x00000000 (0x020600000000)4d02h: As1 LCP: MagicNumber 0x0000405F (0x05060000405F)4d02h: As1 LCP: PFC (0x0702)4d02h: As1 LCP: ACFC (0x0802)4d02h: As1 LCP: Lower layer not up, discarding packet%LINK-3-UPDOWN: Interface Async1, changed state to up4d02h: As1 PPP: Treating connection as a dedicated line4d02h: As1 PPP: Phase is ESTABLISHING, Active Open4d02h: As1 LCP: O CONFREQ [Closed] id 87 len 254d02h: As1 LCP: ACCM 0x000A0000 (0x0206000A0000)4d02h: As1 LCP: AuthProto CHAP (0x0305C22305)4d02h: As1 LCP: MagicNumber 0xF5445B55 (0x0506F5445B55)4d02h: As1 LCP: PFC (0x0702)4d02h: As1 LCP: ACFC (0x0802)4d02h: As1 LCP: I CONFACK [REQsent] id 87 len 254d02h: As1 LCP: ACCM 0x000A0000 (0x0206000A0000)4d02h: As1 LCP: AuthProto CHAP (0x0305C22305)4d02h: As1 LCP: MagicNumber 0xF5445B55 (0x0506F5445B55)4d02h: As1 LCP: PFC (0x0702)4d02h: As1 LCP: ACFC (0x0802)4d02h: As1 LCP: I CONFREQ [ACKrcvd] id 0 len 204d02h: As1 LCP: ACCM 0x00000000 (0x020600000000)4d02h: As1 LCP: MagicNumber 0x0000405F (0x05060000405F)4d02h: As1 LCP: PFC (0x0702)4d02h: As1 LCP: ACFC (0x0802)4d02h: As1 LCP: O CONFACK [ACKrcvd] id 0 len 204d02h: As1 LCP: ACCM 0x00000000 (0x020600000000)4d02h: As1 LCP: MagicNumber 0x0000405F (0x05060000405F)4d02h: As1 LCP: PFC (0x0702)4d02h: As1 LCP: ACFC (0x0802)4d02h: As1 LCP: State is Open4d02h: As1 PPP: Phase is AUTHENTICATING, by this end4d02h: As1 CHAP: O CHALLENGE id 11 len 27 from "rtpkrb"4d02h: As1 CHAP: I RESPONSE id 11 len 28 from "chapadd"4d02h: AAA/AUTHEN: create\_user (0x15AD58) user='chapadd' ruser='' port='Async1' rem\_addr='async' authen\_type=CHAP service=PPP priv=14d02h: AAA/AUTHEN/START (575703226): port='Async1' list='' action=LOGIN service=PPP4d02h: AAA/AUTHEN/START (575703226): using "default" list4d02h: AAA/AUTHEN (575703226): status = UNKNOWN4d02h: AAA/AUTHEN/START (575703226): Method=RADIUS4d02h: RADIUS: Initial Transmit id 8 171.68.118.101:1645, Access-Request, len 784d02h: Attribute 4 6 0A1F01054d02h: Attribute 5 6 000000014d02h: Attribute 61 6 000000004d02h: Attribute 1 9 636861704d02h: Attribute 3 19 0B895D574d02h: Attribute 6 6 000000024d02h: Attribute 7 6 00000001Radius server is down - produces ERROR - since user is not in local database, failover to local FAILs:As1 CHAP: I RESPONSE id 12 len 28 from "chapadd"As1 AUTH: Duplicate authentication request id=12 already in progressAs1 CHAP: I RESPONSE id 12 len 28 from "chapadd"As1 AUTH: Duplicate authentication request id=12 already in progressRADIUS: Retransmit id 15As1 CHAP: I RESPONSE id 12 len 28 from "chapadd"As1 AUTH: Duplicate authentication request id=12 already in progressAs1 CHAP: I RESPONSE id 12 len 28 from "chapadd"As1 AUTH: Duplicate authentication request id=12 already in progressAs1 CHAP: I RESPONSE id 12 len 28 from "chapadd"As1 AUTH: Duplicate authentication request id=12 already in progressRADIUS: Retransmit id 15As1 CHAP: I RESPONSE id 12 len 28 from "chapadd"As1 AUTH: Duplicate authentication request id=12 already in progressAs1 CHAP: I RESPONSE id 12 len 28 from "chapadd"As1 AUTH: Duplicate authentication request id=12 already in progressRADIUS: Retransmit id 15As1 CHAP: I RESPONSE id 12 len 28 from "chapadd"As1 AUTH: Duplicate authentication request id=12 already in progressAs1 LCP: I TERMREQ [Open] id 1 len 8 (0x000002CE)As1 LCP: O TERMACK [Open] id 1 len 4As1 PPP: Phase is TERMINATINGRADIUS: id 15, requester hung up.RADIUS: No response for id 15RADIUS: No response from serverAAA/AUTHEN (1866705040): status = ERRORAAA/AUTHEN/START (1866705040): Method=LOCALAAA/AUTHEN (1866705040): status = FAILAs1 CHAP: Unable to validate Response. Username chapadd: Authentication failureAs1 CHAP: O FAILURE id 12 len 26 msg is "Authentication failure"AAA/AUTHEN: free\_user (0x1716B8) user='chapadd' ruser='' port='Async1' rem\_addr='async' authen\_type=CHAP service=PPP priv=1Key in router does not match that of server:RADIUS: Received from id 21 171.68.118.101:1645, Access-Reject, len 20RADIUS: Reply for 21 fails decryptNT client sends 'DOMAIN\user' and Radius server expects 'user':RADIUS: Received from id 16 171.68.118.101:1645, Access-Reject, len 20AAA/AUTHEN (2974782384): status = FAILAs1 CHAP: Unable to validate Response. Username CISCO\chapadd: Authentication failureAs1 CHAP: O FAILURE id 13 len 26 msg is "Authentication failure"As1 PPP: Phase is TERMINATINGAs1 LCP: O TERMREQ [Open] id 131 len 4AAA/AUTHEN: free\_user (0x171700) user='CISCO\chapadd' ruser='' port='Async1' rem\_addr='async' authen\_type=CHAP service=PPP priv=1Radius server refuses user because user is set up for pap, user enters bad password, or both userid & password are bad:RADIUS: Received from id 17 171.68.118.101:1645, Access-Reject, len 20AAA/AUTHEN (3898168391): status = FAILAs1 CHAP: Unable to validate Response. Username ddunlap: Authentication failureAs1 CHAP: O FAILURE id 14 len 26 msg is "Authentication failure"As1 PPP: Phase is TERMINATINGAs1 LCP: O TERMREQ [Open] id 134 len 4AAA/AUTHEN: free\_user (0x1716B8) user='ddunlap' ruser='' port='Async1' rem\_addr='async' authen\_type=CHAP service=PPP priv=1User PASSes authentication (i.e. username/password is good) but FAILs authorization (profile not set up for Service-Type=Framed &Framed-Protocol=PPP):RADIUS: Received from id 19 171.68.118.101:1645, Access-Accept, len 20AAA/AUTHEN (2006894701): status = PASSAAA/AUTHOR/LCP As1: Authorize LCPAAA/AUTHOR/LCP: Async1: (2370106832): user='noauth'AAA/AUTHOR/LCP: Async1: (2370106832): send AV service=pppAAA/AUTHOR/LCP: Async1: (2370106832): send AV protocol=lcpAAA/AUTHOR/LCP: Async1: (2370106832): Method=RADIUSRADIUS: no appropriate



```
authorization type for user.AAA/AUTHOR (2370106832): Post authorization status =
FAILAAA/AUTHOR/LCP As1: Denied4d02h: RADIUS: Received from id 8 171.68.118.101:1645, Access-
Accept, len 324d02h: Attribute 6 6 000000024d02h: Attribute 7 6 000000014d02h: AAA/AUTHEN
(575703226): status = PASS4d02h: AAA/AUTHOR/LCP As1: Authorize LCP4d02h: AAA/AUTHOR/LCP: Async1:
(4143416222): user='chapadd'4d02h: AAA/AUTHOR/LCP: Async1: (4143416222): send AV
service=ppp4d02h: AAA/AUTHOR/LCP: Async1: (4143416222): send AV protocol=lcp4d02h:
AAA/AUTHOR/LCP: Async1: (4143416222): Method=RADIUS4d02h: AAA/AUTHOR (4143416222): Post
authorization status = PASS_REPL4d02h: AAA/AUTHOR/LCP As1: Processing AV service=ppp4d02h: As1
CHAP: O SUCCESS id 11 len 44d02h: As1 PPP: Phase is UP4d02h: AAA/AUTHOR/FSM As1: (0): Can we
start IPCP?4d02h: AAA/AUTHOR/FSM: Async1: (1916451991): user='chapadd'4d02h: AAA/AUTHOR/FSM:
Async1: (1916451991): send AV service=ppp4d02h: AAA/AUTHOR/FSM: Async1: (1916451991): send AV
protocol=ip4d02h: AAA/AUTHOR/FSM: Async1: (1916451991): Method=RADIUS4d02h: AAA/AUTHOR
(1916451991): Post authorization status = PASS_REPL4d02h: AAA/AUTHOR/FSM As1: We can start
IPCP4d02h: As1 IPCP: O CONFREQ [Closed] id 19 len 104d02h: As1 IPCP: Address 10.31.1.5
(0x03060A1F0105)4d02h: As1 IPCP: I CONFREQ [REQsent] id 1 len 344d02h: As1 IPCP: Address 0.0.0.0
(0x030600000000)4d02h: As1 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000)4d02h: As1 IPCP: PrimaryWINS
0.0.0.0 (0x820600000000)4d02h: As1 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000)4d02h: As1 IPCP:
SecondaryWINS 0.0.0.0 (0x840600000000)4d02h: AAA/AUTHOR/IPCP As1: Start. Her address 0.0.0.0, we
want 0.0.0.04d02h: AAA/AUTHOR/IPCP As1: Processing AV service=ppp4d02h: AAA/AUTHOR/IPCP As1:
Authorization succeeded4d02h: AAA/AUTHOR/IPCP As1: Done. Her address 0.0.0.0, we want
0.0.0.04d02h: As1 IPCP: Using pool 'async'4d02h: As1 IPCP: Pool returned 15.15.15.154d02h: As1
IPCP: O CONFREQ [REQsent] id 1 len 224d02h: As1 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000)4d02h:
As1 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000)4d02h: As1 IPCP: SecondaryWINS 0.0.0.0
(0x840600000000)4d02h: As1 IPCP: I CONFACK [REQsent] id 19 len 104d02h: As1 IPCP: Address
10.31.1.5 (0x03060A1F0105)4d02h: As1 IPCP: I CONFREQ [ACKrcvd] id 2 len 164d02h: As1 IPCP:
Address 0.0.0.0 (0x030600000000)4d02h: As1 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000)4d02h:
AAA/AUTHOR/IPCP As1: Start. Her address 0.0.0.0, we want 15.15.15.154d02h: AAA/AUTHOR/IPCP As1:
Processing AV service=ppp4d02h: AAA/AUTHOR/IPCP As1: Authorization succeeded4d02h:
AAA/AUTHOR/IPCP As1: Done. Her address 0.0.0.0, we want 15.15.15.154d02h: As1 IPCP: O CONFNAK
[ACKrcvd] id 2 len 164d02h: As1 IPCP: Address 15.15.15.15 (0x03060F0F0F0F)4d02h: As1 IPCP:
PrimaryDNS 171.68.118.103 (0x8106AB447667)4d02h: As1 IPCP: I CONFREQ [ACKrcvd] id 3 len 164d02h:
As1 IPCP: Address 15.15.15.15 (0x03060F0F0F0F)4d02h: As1 IPCP: PrimaryDNS 171.68.118.103
(0x8106AB447667)4d02h: AAA/AUTHOR/IPCP As1: Start. Her address 15.15.15.15, we want
15.15.15.154d02h: AAA/AUTHOR/IPCP: Async1: (1096193147): user='chapadd'4d02h: AAA/AUTHOR/IPCP:
Async1: (1096193147): send AV service=ppp4d02h: AAA/AUTHOR/IPCP: Async1: (1096193147): send AV
protocol=ip4d02h: AAA/AUTHOR/IPCP: Async1: (1096193147): send AV addr*15.15.15.154d02h:
AAA/AUTHOR/IPCP: Async1: (1096193147): Method=RADIUS4d02h: AAA/AUTHOR (1096193147): Post
authorization status = PASS_REPL4d02h: AAA/AUTHOR/IPCP As1: Reject 15.15.15.15, using
15.15.15.154d02h: AAA/AUTHOR/IPCP As1: Processing AV service=ppp4d02h: AAA/AUTHOR/IPCP As1:
Processing AV addr*15.15.15.154d02h: AAA/AUTHOR/IPCP As1: Authorization succeeded4d02h:
AAA/AUTHOR/IPCP As1: Done. Her address 15.15.15.15, we want 15.15.15.154d02h: As1 IPCP: O
CONFACK [ACKrcvd] id 3 len 164d02h: As1 IPCP: Address 15.15.15.15 (0x03060F0F0F0F)4d02h: As1
IPCP: PrimaryDNS 171.68.118.103 (0x8106AB447667)4d02h: As1 IPCP: State is Open%LINEPROTO-5-
UPDOWN: Line protocol on Interface Async1, changed state to up4d02h: As1 IPCP: Install route to
15.15.15.15rtpkreb#
```

## Commandes de débogage

Les commandes de **débogage** suivantes ont été utilisées de produire l'exemple de sortie de débogage dans ce document.

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

- **debug aaa authentication** - Les informations d'affichage sur l'authentification d'AAA.
- **autorisation de debug aaa** - Les informations d'affichage sur l'autorisation d'AAA.
- **debug radius** - Affichez les informations de débogage détaillées associées avec le server (RADIUS) d'utilisateur en accès entrant d'authentification à distance.
- **debug ppp negotiation** - Paquets PPP d'affichages transmis pendant le startup de PPP, où des options PPP sont négociées.

## Informations connexes

- [Page d'assistance RADIUS](#)
- [Support technique - Cisco Systems](#)