

Comment appliquer des listes d'accès pour les interfaces de numérotation avec un serveur RADIUS

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[Introduction](#)

Ce document explique comment appliquer des Listes d'accès pour composer des interfaces avec un serveur de RAYON. Il y a deux méthodes possibles :

- Définissez la liste d'accès numérotée sur le routeur, puis mettez en référence la liste d'accès numérotée sur le serveur de RAYON. La plupart des versions logicielles de Cisco IOS® prennent en charge ceci. Par exemple, définissez la liste d'accès numérotée sur le routeur et mettez- en référenceles sur le serveur.
- Définissez la liste d'accès entière sur le serveur. Le Logiciel Cisco IOS version 11.3 ou plus tard est exigé pour cette méthode selon l'utilisateur. Par exemple, définissez la liste d'accès sur le serveur de RAYON (plutôt que sur le NAS). Quand l'appel se connecte, le NAS authentifie l'appel avec le serveur de RAYON. Avec n'importe quelles informations d'authentification, le serveur renvoie la liste d'accès au NAS qu'elle s'applique alors à l'interface de cadran.

Remarque: Pour le RNIS, vous devez utiliser la **méthode selon l'utilisateur** et vous devez configurer des Profils virtuels sur le routeur. Ceux-ci sont décrits pour le Logiciel Cisco IOS version 11.3 [en configurant des Profils virtuels](#).

Conditions préalables

Conditions requises

Aucune spécification déterminée n'est requise pour ce document.

Composants utilisés

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

- Logiciel Cisco IOS version 11.1 ou plus tard (définissez les Listes d'accès sur le routeur)
- Logiciel Cisco IOS version 11.3 ou plus tard (définissez les Listes d'accès sur le serveur)
- Cisco Secure ACS UNIX ou Cisco Secure ACS pour Windows 2.x ou Livingston RADIUS ou Merit RADIUS

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.

Conventions

Pour plus d'informations sur les conventions de documents, reportez-vous à [Conventions relatives aux conseils techniques Cisco](#).

Diagramme du réseau

Ce réseau est utilisé dans les deux exemples :

Définissez les listes d'accès numérotées sur le routeur

Configuration du routeur

```
Current configuration:
!
version 12.0
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
!
hostname koala
!
aaa new-model
!
!--- The following three lines of the configuration !---
are specific to Cisco IOS Software Release 12.0.5.T and
later. !--- See below this configuration for commands !-
-- for other Cisco IOS Software Releases. ! aaa
authentication login default local group radius aaa
authentication ppp default if-needed group radius aaa
authorization network default group radius enable secret
5 $1$mnZQ$g6XdsgVnnYjEa.17v.Pij1 enable password ww !
```

```

username john password 0 doe ! ip subnet-zero ! cns
event-service server ! interface Ethernet0 ip address
10.31.1.5 255.255.255.0 no ip directed-broadcast no mop
enabled ! interface Serial0 ip address 11.11.11.11
255.255.255.0 no ip directed-broadcast no ip mroute-
cache no fair-queue ! interface Serial1 ip address
12.12.12.12 255.255.255.0 no ip directed-broadcast !
interface Async1 ip unnumbered Ethernet0 no ip directed-
broadcast encapsulation ppp no ip route-cache no ip
mroute-cache async mode dedicated peer default ip
address pool mypool fair-queue 64 16 0 no cdp enable ppp
authentication chap ! ip local pool mypool 1.1.1.1
1.1.1.5 ip classless ip route 0.0.0.0 0.0.0.0 10.31.1.1
ip route 9.9.9.0 255.255.255.0 11.11.11.12 ip route
15.15.15.0 255.255.255.0 12.12.12.13 no ip http server !
access-list 101 permit icmp 1.1.1.0 0.0.0.255 9.9.9.0
0.0.0.255 access-list 101 permit tcp 1.1.1.0 0.0.0.255
15.15.15.0 0.0.0.255 !--- This is the access-list that
is specified by the RADIUS server. dialer-list 1
protocol ip permit dialer-list 1 protocol ipx permit !
radius-server host 172.18.124.111 auth-port 1645 acct-
port 1646 radius-server key cisco ! line con 0 transport
input none line 1 modem InOut transport input all
stopbits 1 speed 115200 flowcontrol hardware line 2 16
line aux 0 line vty 0 4 password ww ! end

```

[Commandes pour d'autres versions du logiciel Cisco IOS](#)

Remarque: Pour utiliser ces commandes, retirez les commandes en gras de la configuration ci-dessus et collez ces commandes dedans, comme dicté par votre version du logiciel Cisco IOS.

[Version du logiciel Cisco IOS 11.3.3.T par 12.0.5.T](#)

```

aaa authentication login default radius local
aaa authentication ppp default if-needed radius local
aaa authorization network default radius

```

[Logiciel Cisco IOS version 11.1 par 11.3.3.T](#)

```

aaa authentication login default radius
aaa authentication ppp default if-needed radius
aaa authorization network radius

```

[Configurations du serveur - Listes d'accès sur le routeur](#)

Cette procédure implique la configuration de la liste d'accès elle-même sur le routeur. Le serveur de RAYON est configuré avec le nombre de listes d'accès qui est appliqué. Quand l'appel authentifie, le serveur de RAYON renvoie le nombre de listes d'accès au NAS, qui applique alors la liste d'accès correspondante.

[Configuration du serveur - Cisco Secure ACS pour Windows 2.X - RAYON](#)

Suivez les étapes ci-dessous :

1. Dans les paramètres utilisateurs, complétez le nom et les mots de passe.
2. Dans les configurations de groupe, contrôle :Attribut 6 - **Encadré**Attribut 7 - **PPP**Attribut 11 - **Filtre-id**. Dans la zone ci-dessous, type **101.in****Remarque:** L'attribut 11 spécifie que la liste

d'accès 101 est appliquée. Assurez-vous que la liste d'accès 101 est configurée sur le routeur.

[Configuration du serveur - UNIX RADIUS de Cisco Secure ACS](#)

```
rtp-evergreen# ./ViewProfile -p 9900 -u chaprtr
User Profile Information
user = chaprtr{
profile_id = 51
profile_cycle = 1
radius=Cisco {
check_items= {
2="chaprtr"
}
reply_attributes= {
6=2
7=1
11=101.in } } }
```

Remarque: L'attribut 11 spécifie que la liste d'accès 101 est appliquée. Assurez-vous que la liste d'accès 101 est configurée sur le routeur.

[Configuration du serveur - Livingston RADIUS](#)

```
chaprtr Password = chaprtr
User-Service-Type = Framed-User,
Framed-Protocol = PPP,
Framed-Filter-Id = 101.in
```

Remarque: Ceci spécifie que la liste d'accès 101 est appliquée. Assurez-vous que la liste d'accès 101 est configurée sur le routeur.

[Debug de routeur témoin](#)

```
koala#show debug General OS: AAA Authentication debugging is on AAA Authorization debugging is
on PPP: PPP protocol negotiation debugging is on Radius protocol debugging is on koala# *Mar 1
00:55:36.307: As1 LCP: I CONFREQ [Closed] id 0 len 23 *Mar 1 00:55:36.311: As1 LCP: ACCM
0x00000000 (0x020600000000) *Mar 1 00:55:36.311: As1 LCP: MagicNumber 0x00004CDD
(0x050600004CDD) *Mar 1 00:55:36.315: As1 LCP: PFC (0x0702) *Mar 1 00:55:36.319: As1 LCP: ACFC
(0x0802) *Mar 1 00:55:36.319: As1 LCP: Callback 6 (0x0D0306) *Mar 1 00:55:36.323: As1 LCP: Lower
layer not up, Fast Starting *Mar 1 00:55:36.323: As1 PPP: Treating connection as a dedicated
line *Mar 1 00:55:36.327: As1 PPP: Phase is ESTABLISHING, Active Open [0 sess, 0 load] *Mar 1
00:55:36.331: As1 AAA/AUTHOR/FSM: (0): LCP succeeds trivially *Mar 1 00:55:36.335: As1 LCP: O
CONFREQ [Closed] id 26 len 25 *Mar 1 00:55:36.339: As1 LCP: ACCM 0x000A0000 (0x0206000A0000)
*Mar 1 00:55:36.343: As1 LCP: AuthProto CHAP (0x0305C22305) *Mar 1 00:55:36.343: As1 LCP:
MagicNumber 0xE0512B4A (0x0506E0512B4A) *Mar 1 00:55:36.347: As1 LCP: PFC (0x0702) *Mar 1
00:55:36.347: As1 LCP: ACFC (0x0802) *Mar 1 00:55:36.355: As1 LCP: O CONFREJ [REQsent] id 0 len
7 *Mar 1 00:55:36.355: As1 LCP: Callback 6 (0x0D0306) 00:55:36: %LINK-3-UPDOWN: Interface
Asyncl, changed state to up *Mar 1 00:55:36.479: As1 LCP: I CONFACK [REQsent] id 26 len 25 *Mar
1 00:55:36.483: As1 LCP: ACCM 0x000A0000 (0x0206000A0000) *Mar 1 00:55:36.483: As1 LCP:
AuthProto CHAP (0x0305C22305) *Mar 1 00:55:36.487: As1 LCP: MagicNumber 0xE0512B4A
(0x0506E0512B4A) *Mar 1 00:55:36.491: As1 LCP: PFC (0x0702) *Mar 1 00:55:36.491: As1 LCP: ACFC
(0x0802) *Mar 1 00:55:36.495: As1 LCP: I CONFREQ [ACKrcvd] id 1 len 20 *Mar 1 00:55:36.499: As1
LCP: ACCM 0x00000000 (0x020600000000) *Mar 1 00:55:36.503: As1 LCP: MagicNumber 0x00004CDD
(0x050600004CDD) *Mar 1 00:55:36.503: As1 LCP: PFC (0x0702) *Mar 1 00:55:36.507: As1 LCP: ACFC
(0x0802) *Mar 1 00:55:36.511: As1 LCP: O CONFACK [ACKrcvd] id 1 len 20 *Mar 1 00:55:36.515: As1
LCP: ACCM 0x00000000 (0x020600000000) *Mar 1 00:55:36.515: As1 LCP: MagicNumber 0x00004CDD
(0x050600004CDD) *Mar 1 00:55:36.519: As1 LCP: PFC (0x0702) *Mar 1 00:55:36.519: As1 LCP: ACFC
(0x0802) *Mar 1 00:55:36.523: As1 LCP: State is Open *Mar 1 00:55:36.527: As1 PPP: Phase is
AUTHENTICATING, by this end [0 sess, 1 load] *Mar 1 00:55:36.531: As1 CHAP: O CHALLENGE id 8 len
```

26 from "koala" *Mar 1 00:55:36.647: As1 LCP: I IDENTIFY [Open] id 2 len 18 magic 0x00004CDD
MSRASV4.00 *Mar 1 00:55:36.651: As1 LCP: I IDENTIFY [Open] id 3 len 21 magic 0x00004CDD MSRAS-1-
ZEKIE *Mar 1 00:55:36.655: As1 CHAP: I RESPONSE id 8 len 28 from "chaptrtr" *Mar 1 00:55:36.663:
AAA: parse name=Async1 idb type=10 tty=1 *Mar 1 00:55:36.667: AAA: name=Async1 flags=0x11 type=4
shelf=0 slot=0 adapter=0 port=1 channel=0 *Mar 1 00:55:36.671: AAA/MEMORY: create_user
(0x4E9DF4) user='chaptrtr' ruser='' port='Async1' rem_addr='async' authen_type=CHAP service=PPP
priv=1 *Mar 1 00:55:36.675: AAA/AUTHEN/START (128288046): port='Async1' list='' action=LOGIN
service=PPP *Mar 1 00:55:36.675: AAA/AUTHEN/START (128288046): using "default" list *Mar 1
00:55:36.679: AAA/AUTHEN (128288046): status = UNKNOWN *Mar 1 00:55:36.679: AAA/AUTHEN/START
(128288046): Method=radius (radius) *Mar 1 00:55:36.683: RADIUS: ustruct sharecount=1 *Mar 1
00:55:36.687: RADIUS: Initial Transmit Async1 id 8 172.18.124.111:1645, Access-Request, len 78
*Mar 1 00:55:36.691: Attribute 4 6 0A1F0105 *Mar 1 00:55:36.695: Attribute 5 6 00000001 *Mar 1
00:55:36.695: Attribute 61 6 00000000 *Mar 1 00:55:36.695: Attribute 1 9 63686170 *Mar 1
00:55:36.699: Attribute 3 19 08E468A8 *Mar 1 00:55:36.699: Attribute 6 6 00000002 *Mar 1
00:55:36.703: Attribute 7 6 00000001 *Mar 1 00:55:36.835: RADIUS: Received from id 8
172.18.124.111:1645, Access-Accept, len 40 *Mar 1 00:55:36.839: Attribute 6 6 00000002 *Mar 1
00:55:36.843: Attribute 7 6 00000001 *Mar 1 00:55:36.843: Attribute 11 8 3130312E *Mar 1
00:55:36.851: AAA/AUTHEN (128288046): status = PASS *Mar 1 00:55:36.855: As1 AAA/AUTHOR/LCP:
Authorize LCP *Mar 1 00:55:36.855: As1 AAA/AUTHOR/LCP (821299011): Port='Async1' list=''
service=NET *Mar 1 00:55:36.859: AAA/AUTHOR/LCP: As1 (821299011) user='chaptrtr' *Mar 1
00:55:36.859: As1 AAA/AUTHOR/LCP (821299011): send AV service=ppp *Mar 1 00:55:36.863: As1
AAA/AUTHOR/LCP (821299011): send AV protocol=lcp *Mar 1 00:55:36.863: As1 AAA/AUTHOR/LCP
(821299011): found list "default" *Mar 1 00:55:36.867: As1 AAA/AUTHOR/LCP (821299011):
Method=radius (radius) *Mar 1 00:55:36.871: As1 AAA/AUTHOR (821299011): Post authorization
status = PASS_REPL *Mar 1 00:55:36.871: As1 AAA/AUTHOR/LCP: Processing AV service=ppp *Mar 1
00:55:36.879: As1 CHAP: O SUCCESS id 8 len 4 *Mar 1 00:55:36.883: As1 PPP: Phase is UP [0 sess,
1 load] *Mar 1 00:55:36.887: As1 AAA/AUTHOR/FSM: (0): Can we start IPCP? *Mar 1 00:55:36.887:
As1 AAA/AUTHOR/FSM (3701006396): Port='Async1' list='' service=NET *Mar 1 00:55:36.891:
AAA/AUTHOR/FSM: As1 (3701006396) user='chaptrtr' *Mar 1 00:55:36.891: As1 AAA/AUTHOR/FSM
(3701006396): send AV service=ppp *Mar 1 00:55:36.895: As1 AAA/AUTHOR/FSM (3701006396): send AV
protocol=ip *Mar 1 00:55:36.899: As1 AAA/AUTHOR/FSM (3701006396): found list "default" *Mar 1
00:55:36.899: As1 AAA/AUTHOR/FSM (3701006396): Method=radius (radius) *Mar 1 00:55:36.903: As1
AAA/AUTHOR (3701006396): Post authorization status = PASS_REPL *Mar 1 00:55:36.907: As1
AAA/AUTHOR/FSM: We can start IPCP *Mar 1 00:55:36.915: As1 IPCP: O CONFREQ [Closed] id 5 len 10
*Mar 1 00:55:36.915: As1 IPCP: Address 10.31.1.5 (0x03060A1F0105) *Mar 1 00:55:36.923: As1
AAA/AUTHOR/FSM: (0): Can we start CDPCP? *Mar 1 00:55:36.923: As1 AAA/AUTHOR/FSM (3075092411):
Port='Async1' list='' service=NET *Mar 1 00:55:36.927: AAA/AUTHOR/FSM: As1 (3075092411)
user='chaptrtr' *Mar 1 00:55:36.931: As1 AAA/AUTHOR/FSM (3075092411): send AV service=ppp *Mar 1
00:55:36.931: As1 AAA/AUTHOR/FSM (3075092411): send AV protocol=cdp *Mar 1 00:55:36.935: As1
AAA/AUTHOR/FSM (3075092411): found list "default" *Mar 1 00:55:36.935: As1 AAA/AUTHOR/FSM
(3075092411): Method=radius (radius) *Mar 1 00:55:36.939: RADIUS: unknown proto "cdp" in acl-
check *Mar 1 00:55:36.943: RADIUS: Filter-Id 101 out of range for protocol cdp. Ignoring. *Mar 1
00:55:36.943: As1 AAA/AUTHOR (3075092411): Post authorization status = PASS_REPL *Mar 1
00:55:36.947: As1 AAA/AUTHOR/FSM: We can start CDPCP *Mar 1 00:55:36.951: As1 CDPCP: O CONFREQ
[Closed] id 5 len 4 *Mar 1 00:55:36.987: As1 CCP: I CONFREQ [Not negotiated] id 4 len 12 *Mar 1
00:55:36.991: As1 CCP: OUI (0x0002) *Mar 1 00:55:36.991: As1 CCP: MS-PPC supported bits
0x00007080 (0x120600007080) *Mar 1 00:55:36.999: As1 LCP: O PROTREJ [Open] id 27 len 18 protocol
CCP (0x80FD0104000C0002120600007080) *Mar 1 00:55:37.003: As1 IPCP: I CONFREQ [REQsent] id 5 len
40 *Mar 1 00:55:37.007: As1 IPCP: CompressType VJ 15 slots CompressSlotID (0x0206002D0F01) *Mar
1 00:55:37.011: As1 IPCP: Address 0.0.0.0 (0x030600000000) *Mar 1 00:55:37.015: As1 IPCP:
PrimaryDNS 0.0.0.0 (0x810600000000) *Mar 1 00:55:37.019: As1 IPCP: PrimaryWINS 0.0.0.0
(0x820600000000) *Mar 1 00:55:37.023: As1 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000) *Mar 1
00:55:37.027: As1 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000) *Mar 1 00:55:37.027: As1
AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 0.0.0.0 *Mar 1 00:55:37.031: As1
AAA/AUTHOR/IPCP: Processing AV service=ppp *Mar 1 00:55:37.035: As1 AAA/AUTHOR/IPCP: Processing
AV inacl=101 !--- Note that acl 101 is applied to the dialer interface. *Mar 1 00:55:37.035: As1
AAA/AUTHOR/IPCP: Authorization succeeded *Mar 1 00:55:37.039: As1 AAA/AUTHOR/IPCP: Done. Her
address 0.0.0.0, we want 0.0.0.0 *Mar 1 00:55:37.043: As1 IPCP: Pool returned 1.1.1.1 *Mar 1
00:55:37.047: As1 IPCP: O CONFREQ [REQsent] id 5 len 28 *Mar 1 00:55:37.051: As1 IPCP:
CompressType VJ 15 slots CompressSlotID (0x0206002D0F01) *Mar 1 00:55:37.055: As1 IPCP:
PrimaryWINS 0.0.0.0 (0x820600000000) *Mar 1 00:55:37.059: As1 IPCP: SecondaryDNS 0.0.0.0
(0x830600000000) *Mar 1 00:55:37.063: As1 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000) *Mar 1
00:55:37.067: As1 IPCP: I CONFACK [REQsent] id 5 len 10 *Mar 1 00:55:37.071: As1 IPCP: Address
10.31.1.5 (0x03060A1F0105) *Mar 1 00:55:37.075: As1 LCP: I PROTREJ [Open] id 6 len 10 protocol

```
CDPCP (0x820701050004) *Mar 1 00:55:37.079: As1 CDPCP: State is Closed *Mar 1 00:55:37.183: As1
IPCP: I CONFREQ [ACKrcvd] id 7 len 16 *Mar 1 00:55:37.187: As1 IPCP: Address 0.0.0.0
(0x030600000000) *Mar 1 00:55:37.191: As1 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000) *Mar 1
00:55:37.191: As1 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 1.1.1.1 *Mar 1
00:55:37.195: As1 AAA/AUTHOR/IPCP: Processing AV service=ppp *Mar 1 00:55:37.199: As1
AAA/AUTHOR/IPCP: Processing AV inacl=101 *Mar 1 00:55:37.199: As1 AAA/AUTHOR/IPCP: Authorization
succeeded *Mar 1 00:55:37.203: As1 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 1.1.1.1
*Mar 1 00:55:37.207: As1 IPCP: O CONFNAK [ACKrcvd] id 7 len 16 *Mar 1 00:55:37.211: As1 IPCP:
Address 1.1.1.1 (0x030601010101) *Mar 1 00:55:37.215: As1 IPCP: PrimaryDNS 172.18.125.3
(0x8106AC127D03) *Mar 1 00:55:37.327: As1 IPCP: I CONFREQ [ACKrcvd] id 8 len 16 *Mar 1
00:55:37.331: As1 IPCP: Address 1.1.1.1 (0x030601010101) *Mar 1 00:55:37.335: As1 IPCP:
PrimaryDNS 172.18.125.3 (0x8106AC127D03) *Mar 1 00:55:37.335: As1 AAA/AUTHOR/IPCP: Start. Her
address 1.1.1.1, we want 1.1.1.1 *Mar 1 00:55:37.343: As1 AAA/AUTHOR/IPCP (408915304):
Port='Async1' list='' service=NET *Mar 1 00:55:37.347: AAA/AUTHOR/IPCP: As1 (408915304)
user='chaprtr' *Mar 1 00:55:37.347: As1 AAA/AUTHOR/IPCP (408915304): send AV service=ppp *Mar 1
00:55:37.351: As1 AAA/AUTHOR/IPCP (408915304): send AV protocol=ip *Mar 1 00:55:37.355: As1
AAA/AUTHOR/IPCP (408915304): send AV addr*1.1.1.1 *Mar 1 00:55:37.355: As1 AAA/AUTHOR/IPCP
(408915304): found list "default" *Mar 1 00:55:37.359: As1 AAA/AUTHOR/IPCP (408915304):
Method=radius (radius) *Mar 1 00:55:37.363: As1 AAA/AUTHOR (408915304): Post authorization
status = PASS_REPL *Mar 1 00:55:37.367: As1 AAA/AUTHOR/IPCP: Reject 1.1.1.1, using 1.1.1.1 *Mar
1 00:55:37.375: As1 AAA/AUTHOR/IPCP: Processing AV service=ppp *Mar 1 00:55:37.375: As1
AAA/AUTHOR/IPCP: Processing AV inacl=101 *Mar 1 00:55:37.379: As1 AAA/AUTHOR/IPCP: Processing AV
addr*1.1.1.1 *Mar 1 00:55:37.379: As1 AAA/AUTHOR/IPCP: Authorization succeeded *Mar 1
00:55:37.383: As1 AAA/AUTHOR/IPCP: Done. Her address 1.1.1.1, we want 1.1.1.1 *Mar 1
00:55:37.387: As1 IPCP: O CONFACK [ACKrcvd] id 8 len 16 *Mar 1 00:55:37.391: As1 IPCP: Address
1.1.1.1 (0x030601010101) *Mar 1 00:55:37.395: As1 IPCP: PrimaryDNS 172.18.125.3 (0x8106AC127D03)
*Mar 1 00:55:37.399: As1 IPCP: State is Open *Mar 1 00:55:37.727: As1 IPCP: Install route to
1.1.1.1 *Mar 1 00:55:37: %LINEPROTO-5-UPDOWN: Line protocol on Interface Async1, changed state
to up koala#
```

Définissez les Listes d'accès sur le serveur

Remarque: Des instructions de route ne doivent pas être passées vers le bas du serveur au routeur ; l'utilisateur de cadran prend normalement les artères du routeur. La présence des instructions de route sur le routeur dépend de si les artères doivent être passé vers le bas du serveur ou être prises du routeur. Cependant, dans cet exemple, la liste d'accès et les instructions de route sont passées vers le bas.

```
ip route 9.9.9.0 255.255.255.0 11.11.11.12
ip route 15.15.15.0 255.255.255.0 12.12.12.13
```

Dans cette configuration d'échantillon, le dépassement des artères vers le bas du serveur est seulement aux fins d'illustration.

Configuration du routeur

```
Current configuration:
!
version 12.0
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
!
hostname koala
!
aaa new-model
!
!--- The following three lines of the configuration are
!--- specific to Cisco IOS Software Release 12.0.5.T and
later. !--- See below this configuration for commands !-
-- for other Cisco IOS Software Releases. ! aaa
authentication login default group radius none aaa
```

```

authentication ppp default if-needed group radius aaa
authorization network default group radius enable secret
5 $1$mnzQ$g6XdsgVnnYjEa.17v.Pij1 enable password ww !
username john password 0 doe ! ip subnet-zero ! cns
event-service server ! interface Ethernet0 ip address
10.31.1.5 255.255.255.0 no ip directed-broadcast no mop
enabled ! interface Serial0 ip address 11.11.11.11
255.255.255.0 no ip directed-broadcast no ip mroute-
cache no fair-queue ! interface Serial1 ip address
12.12.12.12 255.255.255.0 no ip directed-broadcast !
interface Async1 ip unnumbered Ethernet0 no ip directed-
broadcast encapsulation ppp no ip route-cache no ip
mroute-cache async mode dedicated peer default ip
address pool mypool fair-queue 64 16 0 no cdp enable ppp
authentication chap ! ip local pool mypool 1.1.1.1
1.1.1.5 ip classless ip route 0.0.0.0 0.0.0.0 10.31.1.1
ip route 172.17.192.0 255.255.255.0 10.31.1.1 ip route
172.18.124.0 255.255.255.0 10.31.1.1 ip route
172.18.125.0 255.255.255.0 10.31.1.1 no ip http server !
dialer-list 1 protocol ip permit dialer-list 1 protocol
ipx permit ! radius-server host 172.18.124.111 auth-port
1645 acct-port 1646 radius-server key cisco ! line con 0
transport input none line 1 autoselect during-login
autoselect ppp modem InOut transport input all stopbits
1 speed 115200 flowcontrol hardware line 2 16 line aux 0
line vty 0 4 password ww ! end

```

[Commandes pour d'autres versions du logiciel Cisco IOS](#)

Remarque: Pour utiliser ces commandes, retirez les commandes en gras de la configuration ci-dessus et collez ces commandes dedans, comme dicté par votre version du logiciel Cisco IOS.

[Version du logiciel Cisco IOS 11.3.3.T par 12.0.5.T](#)

```

aaa authentication login default radius local
aaa authentication ppp default if-needed radius local
aaa authorization network default radius

```

[Logiciel Cisco IOS version 11.3 par 11.3.3.T](#)

```

aaa authentication login default radius
aaa authentication ppp default if-needed radius
aaa authorization network radius

```

[Configurations du serveur](#)

[Configuration du serveur - UNIX RADIUS de Cisco Secure ACS](#)

```

# ./ViewProfile -p 9900 -u chaptr
User Profile Information
user = chaptr{
profile_id = 31
profile_cycle = 1
radius=Cisco {
check_items= {
2="chaptr"
}
reply_attributes= {
6=2
7=1

```

```

9,1="ip:route#1=9.9.9.9 255.255.255.255 11.11.11.12"
9,1="ip:route#2=15.15.15.15 255.255.255.255 12.12.12.13"
9,1="ip:route#3=15.15.15.16 255.255.255.255 12.12.12.13"
9,1="ip:inacl#1=permit icmp 1.1.1.0 0.0.0.255 9.9.9.0 0.0.0.255" 9,1="ip:inacl#2=permit tcp
1.1.1.0 0.0.0.255 15.15.15.0 0.0.0.255" !--- The access-list to be applied is specified. !---
Note that the number after inacl# increments for each line of the access-list. } } }

```

Configuration du serveur - Cisco Secure ACS pour Windows 2.x - RAYON

Procédez comme suit :

1. Dans les paramètres utilisateurs, complétez le nom et les mots de passe.
2. Dans les configurations de groupe, contrôle :Attribut 6 - **Encadré**Attribut 7 - **PPP**
3. Sous des attributs RADIUS Cisco, la **paire AV** du contrôle [009\001] et tapent le texte suivant

dans la case dessous :

```

ip:route#1=9.9.9.9 255.255.255.255 11.11.11.12
ip:route#2=15.15.15.15 255.255.255.255 12.12.12.13
ip:route#3=15.15.15.16 255.255.255.255 12.12.12.13
ip:inacl#1=permit icmp 1.1.1.0 0.0.0.255 9.9.9.0 0.0.0.255 ip:inacl#2=permit tcp 1.1.1.0
0.0.0.255 15.15.15.0 0.0.0.255 !--- The access-list to be applied is specified. !---
Note that the number after inacl# increments for !--- each line of the access-list.

```

Configuration du serveur - Merit RADIUS

Remarque: Ce les configurations est valide pour les versions de version 3.6b ou ultérieures de Merit RADIUS qui prennent en charge des poids du commerce-paires de Cisco.

```

chaptrtr Password = "chaptrtr",
Service-Type = Framed,
Framed-Protocol = PPP,
Framed-IP-Address = 255.255.255.254
Cisco:Avpair="ip:route#1=9.9.9.9 255.255.255.255 11.11.11.12"
Cisco:Avpair="ip:route#2=15.15.15.15 255.255.255.255 12.12.12.13"
Cisco:Avpair="ip:route#3=15.15.15.16 255.255.255.255 12.12.12.13"
Cisco:Avpair="ip:inacl#1=permit icmp 1.1.1.0 0.0.0.255 9.9.9.0 0.0.0.255"
Cisco:Avpair="ip:inacl#2=permit tcp 1.1.1.0 0.0.0.255 15.15.15.0 0.0.0.255" !--- The access-list
to be applied is specified. ! --- Note that the number after inacl# increments for each line of
the access-list.

```

[Debug de routeur témoin](#)

La configuration d'utilisateur RADIUS pour le débogage ci-dessous était :

```

RADIUS user password = "radiususer",
Service-Type = Framed,
Framed-Protocol = PPP,
Framed-IP-Address = 255.255.255.254
cisco-avpair = "ip:route#1=9.9.9.0 255.255.255.0 11.11.11.12"
cisco-avpair = "ip:route#2=15.15.15.0 255.255.255.0 12.12.12.13"
cisco-avpair = "ip:inacl#1=permit icmp 1.1.1.0 0.0.0.255 9.9.9.0 0.0.0.255 log"
cisco-avpair = "ip:inacl#2=permit tcp 1.1.1.0 0.0.0.255 15.15.15 .0 0.0.0.255 log"

```

koala#

koala#

```

4d05h: As1 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
4d05h: %LINK-3-UPDOWN: Interface Async1, changed state to up
4d05h: AAA: parse name=Async1 idb type=10 tty=1
4d05h: AAA: name=Async1 flags=0x11 type=4 shelf=0 slot=0
adapter=0 port=1 channel=0

```



```
4d05h: AAA/MEMORY: create_user (0x552AB4) user='radiususer'
      ruser='' port='Async1' rem_addr='async' authen_type=CHAP
      service=PPP priv=1
4d05h: AAA/AUTHEN/START (624846144): port='Async1' list=''
      action=LOGIN service=PPP
4d05h: AAA/AUTHEN/START (624846144): using "default" list
4d05h: AAA/AUTHEN (624846144): status = UNKNOWN
4d05h: AAA/AUTHEN/START (624846144): Method=radius (radius)
4d05h: RADIUS: ustruct sharecount=1
4d05h: RADIUS: Initial Transmit Async1 id 9 172.18.124.111:1645,
      Access-Request, len 81
4d05h: Attribute 4 6 0A1F0105
4d05h: Attribute 5 6 00000001
4d05h: Attribute 61 6 00000000
4d05h: Attribute 1 12 72616469
4d05h: Attribute 3 19 1672E16F
4d05h: Attribute 6 6 00000002
4d05h: Attribute 7 6 00000001
4d05h: RADIUS: Received from id 9 172.18.124.111:1645,
      Access-Accept, len 287
4d05h: Attribute 6 6 00000002
4d05h: Attribute 7 6 00000001
4d05h: Attribute 8 6 FFFFFFFE
4d05h: Attribute 26 52 00000009012E6970
4d05h: Attribute 26 55 0000000901316970
4d05h: Attribute 26 70 0000000901406970
4d05h: Attribute 26 72 0000000901426970
4d05h: AAA/AUTHEN (624846144): status = PASS
4d05h: As1 AAA/AUTHOR/LCP: Authorize LCP
4d05h: As1 AAA/AUTHOR/LCP (3679631149): Port='Async1' list=''
      service=NET
4d05h: AAA/AUTHOR/LCP: As1 (3679631149) user='radiususer'
4d05h: As1 AAA/AUTHOR/LCP (3679631149): send AV service=ppp
4d05h: As1 AAA/AUTHOR/LCP (3679631149): send AV protocol=lcp
4d05h: As1 AAA/AUTHOR/LCP (3679631149): found list "default"
4d05h: As1 AAA/AUTHOR/LCP (3679631149): Method=radius (radius)
4d05h: RADIUS: cisco AVPair "ip:route#1=9.9.9.0 255.255.255.0
      11.11.11.12" not applied for lcp
4d05h: RADIUS: cisco AVPair "ip:route#2=15.15.15.0 255.255.255.0
      12.12.12.13" not applied for lcp
4d05h: RADIUS: cisco AVPair "ip:inacl#1=permit icmp 1.1.1.0 0.0.0.255
      9.9.9.0 0.0.0.255 log" not applied for lcp
4d05h: RADIUS: cisco AVPair "ip:inacl#2=permit tcp 1.1.1.0 0.0.0.255
      15.15.15.0 0.0.0.255 log" not applied for lcp
4d05h: As1 AAA/AUTHOR (3679631149): Post authorization
      status = PASS_REPL
4d05h: As1 AAA/AUTHOR/LCP: Processing AV service=ppp
4d05h: As1 AAA/AUTHOR/FSM: (0): Can we start IPCP?
4d05h: As1 AAA/AUTHOR/FSM (231623628): Port='Async1' list=''
      service=NET
4d05h: AAA/AUTHOR/FSM: As1 (231623628) user='radiususer'
4d05h: As1 AAA/AUTHOR/FSM (231623628): send AV service=ppp
4d05h: As1 AAA/AUTHOR/FSM (231623628): send AV protocol=ip
4d05h: As1 AAA/AUTHOR/FSM (231623628): found list "default"
4d05h: As1 AAA/AUTHOR/FSM (231623628): Method=radius (radius)
4d05h: RADIUS: Using NAS default peer
4d05h: RADIUS: Authorize IP address 0.0.0.0
4d05h: RADIUS: cisco AVPair "ip:route#1=9.9.9.0 255.255.255.0
      11.11.11.12"
4d05h: RADIUS: cisco AVPair "ip:route#2=15.15.15.0 255.255.255.0
      12.12.12.13"
4d05h: RADIUS: cisco AVPair "ip:inacl#1=permit icmp 1.1.1.0 0.0.0.255 9.9.9.0 0.0.0.255 log"
4d05h: RADIUS: cisco AVPair "ip:inacl#2=permit tcp 1.1.1.0 0.0.0.255 15.15.15.0 0.0.0.255 log"
!--- The access list is sent down from the RADIUS server. 4d05h: As1 AAA/AUTHOR (231623628):
```

Post authorization status = PASS_REPL 4d05h: As1 AAA/AUTHOR/FSM: We can start IPCP 4d05h: As1 AAA/AUTHOR/IPCPC: Start. Her address 0.0.0.0, we want 0.0.0.0 4d05h: As1 AAA/AUTHOR/IPCPC: Processing AV service=ppp 4d05h: As1 AAA/AUTHOR/IPCPC: Processing AV addr=0.0.0.0 4d05h: As1 AAA/AUTHOR/IPCPC: Processing AV route#1=9.9.9.0 255.255.255.0 11.11.11.12 4d05h: As1 AAA/AUTHOR/IPCPC: Processing AV route#2=15.15.15.0 255.255.255.0 12.12.12.13 4d05h: As1 AAA/AUTHOR/IPCPC: Processing AV inacl#1=permit icmp 1.1.1.0 0.0.0.255 9.9.9.0 0.0.0.255 log 4d05h: As1 AAA/AUTHOR/IPCPC: Processing AV inacl#2=permit tcp 1.1.1.0 0.0.0.255 15.15.15.0 0.0.0.255 log 4d05h: As1 AAA/AUTHOR/IPCPC: Authorization succeeded 4d05h: As1 AAA/AUTHOR/IPCPC: Done. Her address 0.0.0.0, we want 0.0.0.0 4d05h: As1 AAA/AUTHOR/IPCPC: Start. Her address 0.0.0.0, we want 1.1.1.3 4d05h: As1 AAA/AUTHOR/IPCPC: Processing AV service=ppp 4d05h: As1 AAA/AUTHOR/IPCPC: Processing AV addr=0.0.0.0 4d05h: As1 AAA/AUTHOR/IPCPC: Processing AV route#1=9.9.9.0 255.255.255.0 11.11.11.12 4d05h: As1 AAA/AUTHOR/IPCPC: Processing AV route#2=15.15.15.0 255.255.255.0 12.12.12.13 4d05h: As1 AAA/AUTHOR/IPCPC: Processing AV inacl#1=permit icmp 1.1.1.0 0.0.0.255 9.9.9.0 0.0.0.255 log 4d05h: As1 AAA/AUTHOR/IPCPC: Processing AV inacl#2=permit tcp 1.1.1.0 0.0.0.255 15.15.15.0 0.0.0.255 log 4d05h: As1 AAA/AUTHOR/IPCPC: Authorization succeeded 4d05h: As1 AAA/AUTHOR/IPCPC: Done. Her address 0.0.0.0, we want 1.1.1.3 4d05h: As1 AAA/AUTHOR/IPCPC: Start. Her address 1.1.1.3, we want 1.1.1.3 4d05h: As1 AAA/AUTHOR/IPCPC (2383669304): Port='Async1' list='' service=NET 4d05h: AAA/AUTHOR/IPCPC: As1 (2383669304) user='radiususer' 4d05h: As1 AAA/AUTHOR/IPCPC (2383669304): send AV service=ppp 4d05h: As1 AAA/AUTHOR/IPCPC (2383669304): send AV protocol=ip 4d05h: As1 AAA/AUTHOR/IPCPC (2383669304): send AV addr*1.1.1.3 4d05h: As1 AAA/AUTHOR/IPCPC (2383669304): found list "default" 4d05h: As1 AAA/AUTHOR/IPCPC (2383669304): Method=radius (radius) 4d05h: RADIUS: Using NAS default peer 4d05h: RADIUS: Authorize IP address 1.1.1.3 4d05h: RADIUS: cisco AVPair "ip:route#1=9.9.9.0 255.255.255.0 11.11.11.12" 4d05h: RADIUS: cisco AVPair "ip:route#2=15.15.15.0 255.255.255.0 12.12.12.13" 4d05h: RADIUS: cisco AVPair "ip:inacl#1=permit icmp 1.1.1.0 0.0.0.255 9.9.9.0 0.0.0.255 log" 4d05h: RADIUS: cisco AVPair "ip:inacl#2=permit tcp 1.1.1.0 0.0.0.255 15.15.15.0 0.0.0.255 log" 4d05h: As1 AAA/AUTHOR (2383669304): Post authorization status = PASS_REPL 4d05h: As1 AAA/AUTHOR/IPCPC: Processing AV service=ppp 4d05h: As1 AAA/AUTHOR/IPCPC: Processing AV addr=1.1.1.3 4d05h: As1 AAA/AUTHOR/IPCPC: Processing AV route#1=9.9.9.0 255.255.255.0 11.11.11.12 4d05h: As1 AAA/AUTHOR/IPCPC: Processing AV route#2=15.15.15.0 255.255.255.0 12.12.12.13 **4d05h: As1 AAA/AUTHOR/IPCPC: Processing AV inacl#1=permit icmp 1.1.1.0 0.0.0.255 9.9.9.0 0.0.0.255 log 4d05h: As1 AAA/AUTHOR/IPCPC: Processing AV inacl#2=permit tcp 1.1.1.0 0.0.0.255 15.15.15.0 0.0.0.255 log** !--- Access list from the RADIUS server is applied. 4d05h: As1 AAA/AUTHOR/IPCPC: Authorization succeeded 4d05h: As1 AAA/AUTHOR/IPCPC: Done. Her address 1.1.1.3, we want 1.1.1.3 4d05h: As1 AAA/AUTHOR/PER-USER: Event IP_UP 4d05h: As1 AAA/AUTHOR: IP_UP 4d05h: As1 AAA/PER-USER: processing author params. 4d05h: As1 AAA/AUTHOR: Parse 'IP route 9.9.9.0 255.255.255.0 11.11.11.12' 4d05h: As1 AAA/AUTHOR: Parse returned ok (0) 4d05h: As1 AAA/AUTHOR: enqueue peruser IP txt=no IP route 9.9.9.0 255.255.255.0 11.11.11.12 4d05h: As1 AAA/AUTHOR: Parse 'IP route 15.15.15.0 255.255.255.0 12.12.12.13' 4d05h: As1 AAA/AUTHOR: Parse returned ok (0) 4d05h: As1 AAA/AUTHOR: enqueue peruser IP txt=no IP route 15.15.15.0 255.255.255.0 12.12.12.13 4d05h: As1 AAA/AUTHOR: Parse 'ip access-list extended Async1#0' 4d05h: As1 AAA/AUTHOR: Parse returned ok (0) 4d05h: As1 AAA/AUTHOR: Parse 'permit icmp 1.1.1.0 0.0.0.255 9.9.9.0 0.0.0.255 log' 4d05h: As1 AAA/AUTHOR: Parse returned ok (0) 4d05h: As1 AAA/AUTHOR: Parse 'permit tcp 1.1.1.0 0.0.0.255 15.15.15.0 0.0.0.255 log' 4d05h: As1 AAA/AUTHOR: Parse returned ok (0) 4d05h: As1 AAA/AUTHOR: enqueue peruser IP txt=no ip access-list extended Async1#0 4d05h: As1 AAA/AUTHOR: Parse 'interface Async1' 4d05h: %LINEPROTO-5-UPDOWN: Line protocol on Interface Async1, changed state to up 4d05h: As1 AAA/AUTHOR: Parse returned ok (0) 4d05h: As1 AAA/AUTHOR: Parse 'IP access-group Async1#0 in' 4d05h: As1 AAA/AUTHOR: Parse returned ok (0) 4d05h: As1 AAA/AUTHOR: enqueue peruser IP txt=interface Async1 no IP access-group Async1#0 in koala#**show ip access-list** Extended IP access list 101 permit icmp 1.1.1.0 0.0.0.255 9.9.9.0 0.0.0.255 log (5 matches) permit tcp 1.1.1.0 0.0.0.255 15.15.15.0 0.0.0.255 log (11 matches) Extended IP access list **Async1#0 (per-user) permit icmp 1.1.1.0 0.0.0.255 9.9.9.0 0.0.0.255 log permit tcp 1.1.1.0 0.0.0.255 15.15.15.0 0.0.0.255 log** !--- Verify that the access list is applied to the AS1 dial interface. koala#**show ip route** Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2 E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area * - candidate default, U - per-user static route, o - ODR P - periodic downloaded static route Gateway of last resort is 10.31.1.1 to network 0.0.0.0 1.0.0.0/32 is subnetted, 1 subnets C 1.1.1.3 is directly connected, Async1 172.17.0.0/24 is subnetted, 1 subnets S 172.17.192.0 [1/0] via 10.31.1.1 172.18.0.0/24 is subnetted, 2 subnets S 172.18.124.0 [1/0] via 10.31.1.1 S 172.18.125.0 [1/0] via 10.31.1.1 9.0.0.0/24 is subnetted, 1 subnets **U 9.9.9.0 [1/0] via 11.11.11.12** !--- The static user route specified by the RADIUS server is applied. 10.0.0.0/24 is subnetted, 1 subnets C 10.31.1.0 is directly connected, Ethernet0 11.0.0.0/24 is subnetted, 1 subnets C 11.11.11.0 is directly

connected, Serial0 12.0.0.0/24 is subnetted, 1 subnets C 12.12.12.0 is directly connected,
Serial1 15.0.0.0/24 is subnetted, 1 subnets U 15.15.15.0 [1/0] via 12.12.12.13 !--- The static
user route specified by the RADIUS server is applied. S* 0.0.0.0/0 [1/0] via 10.31.1.1

Commandes de débogage

- **debug aaa authentication** - Affiche des informations au sujet de l'authentification d'AAA.
- **autorisation de debug aaa** - Affiche des informations au sujet de l'autorisation d'AAA.
- **debug aaa per-user** - Affiche des informations au sujet des paramètres de configuration selon l'utilisateur sur le routeur ou serveur d'accès qui sont envoyés d'un serveur d'AAA.
- **debug radius** - Affiche les informations de débogage détaillées associées avec le RAYON.
- **debug ppp negotiation** - Paquets PPP d'affichages transmis pendant le startup de PPP, où des options PPP sont négociées.

Pour information l'information de dépannage, voir les [Listes d'accès de dépannage sur des interfaces de cadran](#).

Informations connexes

- [Documentation pour le Cisco Secure ACS pour l'UNIX](#)
- [Cisco Secure ACS pour la page d'assistance de Windows](#)
- [Documentation pour Cisco Secure ACS pour Windows](#)
- [Notes de terrain en Produits de Sécurité \(Cisco Secure UNIX y compris\)](#)
- [Page d'assistance RADIUS](#)
- [Configurer le RAYON](#)
- [Demandes de commentaires \(RFC\)](#)
- [Support technique - Cisco Systems](#)