

Utilisation d'un serveur AAA pour gérer les pools IP dans un serveur d'accès réseau

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[Introduction](#)

Ce document fournit des configurations d'échantillon pour l'usage d'un serveur d'AAA pour gérer des groupes IP dans un serveur d'accès à distance (NAS).

[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 les versions de logiciel et de matériel ci-dessous.

- Version de logiciel 12.0.7.T 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.

Groupes IP

Pendant la négociation d'adresse du protocole de contrôle IP (IPCP), si un nom de pool d'IP est spécifié pour un utilisateur, le NAS vérifie si le groupe Désigné est défini localement. S'il est, aucune action spéciale n'est exigée et le groupe local est consulté pour une adresse IP. Si le groupe prié n'est pas présent, alors un appel d'autorisation pour l'obtenir est fait, utilisant le nom d'utilisateur spécial « groupe-nas-nom » où le « nas-nom » est l'adresse Internet configurée du NAS. Dans la réponse, le serveur d'AAA télécharge la configuration du groupe prié. Vous pouvez configurer un nom d'utilisateur différent de groupe avec le *nom de config-nom d'utilisateur de configuration d'AAA de votre commande choisissante*.

Cette commande a l'effet de changer le nom d'utilisateur qui est utilisé pour télécharger les définitions de groupe du nom par défaut « groupe-NAS-nom » à « nom-de-votre-choisir. »

Des groupes téléchargés à l'NAS de Cisco ne sont pas retenus dans la mémoire non volatile et disparaissent automatiquement toutes les fois que les reprises de serveur d'accès ou de routeur. Des groupes téléchargés peuvent également être faits à la minuterie automatiquement en ajoutant une paire AV appropriée. Des groupes téléchargés sont marqués en tant que dynamique dans la sortie de commande de **groupes locaux de show ip**.

Configuration de NAS de RAYON

```
aaa new-model
aaa authentication login default group radius
aaa authentication ppp default if-needed group radius
aaa authorization network default group radius
aaa configuration config-username nas1-pools
radius-server host 172.18.124.114 auth-port 1645 acct-port 1646
radius-server key cisco
```

Profil de groupe de NAS de serveur d'AAA

```
./ViewProfile -p 9900 -u nas1-pools
User Profile Information
user = nas1-pools
profile_id=63
profile_cycle = 7
member = nas_profiles
password = pap "*****"
radius=Cisco {
reply_attributes= {
6=5
9,1="ip:pool-def#1= pool1 172.22.83.2 172.22.83.253"
}
}
}
```

Cet exemple affiche à utilisateur "nas1-pools" créé dans un serveur de CiscoSecure UNIX (CSU).

Cette entrée spécifie un utilisateur-service-type du sortant-utilisateur {6=5}. Cet attribut est fourni par le NAS pour empêcher des procédures de connexion ordinaires d'utiliser la combinaison réputée de nom d'utilisateur et mot de passe de nas1-pools/cisco.

Profil utilisateur de serveur d'AAA

```
./ViewProfile -p 9900 -u pool_test
user = pool_test{
profile_id = 46
profile_cycle = 14
member = dial_rad
password = pap "*****"
radius=Cisco {
reply_attributes= {
7=1
6=2
9,1="ip:addr-pool=pool1"
}
}
}
```

Vérification

L'utilisateur « pool_test » se connecte et est assigné une adresse IP de pool1 dans le serveur d'AAA.

```
as5300#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 as5300#term mon
as5300# 00:26:01: %LINK-3-UPDOWN: Interface Async5, changed state to up 00:26:01: As5 PPP:
Treating connection as a dedicated line 00:26:01: As5 PPP: Phase is ESTABLISHING, Active Open
00:26:01: As5 AAA/AUTHOR/FSM: (0): LCP succeeds trivially 00:26:01: As5 LCP: O CONFREQ [Closed]
id 1 len 24 00:26:01: As5 LCP: ACCM 0x000A0000 (0x0206000A0000) 00:26:01: As5 LCP: AuthProto PAP
(0x0304C023) 00:26:01: As5 LCP: MagicNumber 0xD0D1EC92 (0x0506D0D1EC92) 00:26:01: As5 LCP: PFC
(0x0702) 00:26:01: As5 LCP: ACFC (0x0802) 00:26:01: As5 LCP: I CONFACK [REQsent] id 1 len 24
00:26:01: As5 LCP: ACCM 0x000A0000 (0x0206000A0000) 00:26:01: As5 LCP: AuthProto PAP
(0x0304C023) 00:26:01: As5 LCP: MagicNumber 0xD0D1EC92 (0x0506D0D1EC92) 00:26:01: As5 LCP: PFC
(0x0702) 00:26:01: As5 LCP: ACFC (0x0802) 00:26:02: As5 LCP: I CONFREQ [ACKrcvd] id 0 len 23
00:26:02: As5 LCP: ACCM 0x00000000 (0x020600000000) 00:26:02: As5 LCP: MagicNumber 0x00002BF7
(0x050600002BF7) 00:26:02: As5 LCP: PFC (0x0702) 00:26:02: As5 LCP: ACFC (0x0802) 00:26:02: As5
LCP: Callback 6 (0x0D0306) 00:26:02: As5 LCP: O CONFREQ [ACKrcvd] id 0 len 7 00:26:02: As5 LCP:
Callback 6 (0x0D0306) 00:26:03: As5 LCP: TIMEOUT: State ACKrcvd 00:26:03: As5 LCP: O CONFREQ
[ACKrcvd] id 2 len 24 00:26:03: As5 LCP: ACCM 0x000A0000 (0x0206000A0000) 00:26:03: As5 LCP:
AuthProto PAP (0x0304C023) 00:26:03: As5 LCP: MagicNumber 0xD0D1EC92 (0x0506D0D1EC92) 00:26:03:
As5 LCP: PFC (0x0702) 00:26:03: As5 LCP: ACFC (0x0802) 00:26:03: As5 LCP: I CONFACK [REQsent] id
2 len 24 00:26:03: As5 LCP: ACCM 0x000A0000 (0x0206000A0000) 00:26:03: As5 LCP: AuthProto PAP
(0x0304C023) 00:26:03: As5 LCP: MagicNumber 0xD0D1EC92 (0x0506D0D1EC92) 00:26:03: As5 LCP: PFC
(0x0702) 00:26:03: As5 LCP: ACFC (0x0802) 00:26:05: As5 LCP: TIMEOUT: State ACKrcvd 00:26:05:
As5 LCP: O CONFREQ [ACKrcvd] id 3 len 24 00:26:05: As5 LCP: ACCM 0x000A0000 (0x0206000A0000)
00:26:05: As5 LCP: AuthProto PAP (0x0304C023) 00:26:05: As5 LCP: MagicNumber 0xD0D1EC92
(0x0506D0D1EC92) 00:26:05: As5 LCP: PFC (0x0702) 00:26:05: As5 LCP: ACFC (0x0802) 00:26:05: As5
LCP: I CONFACK [REQsent] id 3 len 24 00:26:05: As5 LCP: ACCM 0x000A0000 (0x0206000A0000)
00:26:05: As5 LCP: AuthProto PAP (0x0304C023) 00:26:05: As5 LCP: MagicNumber 0xD0D1EC92
(0x0506D0D1EC92) 00:26:05: As5 LCP: PFC (0x0702) 00:26:05: As5 LCP: ACFC (0x0802) 00:26:06: As5
LCP: I CONFREQ [ACKrcvd] id 0 len 23 00:26:06: As5 LCP: ACCM 0x00000000 (0x020600000000)
00:26:06: As5 LCP: MagicNumber 0x00002BF7 (0x050600002BF7) 00:26:06: As5 LCP: PFC (0x0702)
00:26:06: As5 LCP: ACFC (0x0802) 00:26:06: As5 LCP: Callback 6 (0x0D0306) 00:26:06: As5 LCP: O
CONFREQ [ACKrcvd] id 0 len 7 00:26:06: As5 LCP: Callback 6 (0x0D0306) 00:26:06: As5 LCP: I
CONFREQ [ACKrcvd] id 1 len 20 00:26:06: As5 LCP: ACCM 0x00000000 (0x020600000000) 00:26:06: As5
LCP: MagicNumber 0x00002BF7 (0x050600002BF7) 00:26:06: As5 LCP: PFC (0x0702) 00:26:06: As5 LCP:
ACFC (0x0802) 00:26:06: As5 LCP: O CONFACK [ACKrcvd] id 1 len 20 00:26:06: As5 LCP: ACCM
```

0x00000000 (0x020600000000) 00:26:06: As5 LCP: MagicNumber 0x00002BF7 (0x050600002BF7) 00:26:06: As5 LCP: PFC (0x0702) 00:26:06: As5 LCP: ACFC (0x0802) 00:26:06: As5 LCP: State is Open
00:26:06: As5 PPP: Phase is AUTHENTICATING, by this end 00:26:06: As5 LCP: I IDENTIFY [Open] id 2 len 18 magic 0x00002BF7 MSRASV4.00 00:26:06: As5 LCP: I IDENTIFY [Open] id 3 len 21 magic 0x00002BF7 MSRAS-1-ZEKIE 00:26:06: As5 PAP: I AUTH-REQ id 31 len 24 from "pool_test" 00:26:06: As5 PAP: Authenticating peer pool_test 00:26:06: AAA: parse name=Async5 idb type=10 tty=5
00:26:06: AAA: name=Async5 flags=0x11 type=4 shelf=0 slot=0 adapter=0 port=5 channel=0 00:26:06: AAA: parse name=Serial0:18 idb type=12 tty=-1 00:26:06: AAA: name=Serial0:18 flags=0x51 type=1 shelf=0 slot=0 adapter=0 port=0 channel=18 00:26:06: AAA/MEMORY: create_user (0x618FFB0) user='pool_test' ruser='' port='Async5' rem_addr='9194722001/9194724101' authen_type=PAP service=PPP priv=1 00:26:06: AAA/AUTHEN/START (2962877775): port='Async5' list='' action=LOGIN service=PPP 00:26:06: AAA/AUTHEN/START (2962877775): using "default" list 00:26:06: AAA/AUTHEN (2962877775): status = UNKNOWN 00:26:06: AAA/AUTHEN/START (2962877775): Method=radius (radius) 00:26:06: RADIUS: ustruct sharecount=1 00:26:06: RADIUS: Initial Transmit Async5 id 10 172.18.124.114:1645, Access-Request, len 103 00:26:06: Attribute 4 6 01010101 00:26:06: Attribute 5 6 00000005 00:26:06: Attribute 61 6 00000000 00:26:06: Attribute 1 11 706F6F6C 00:26:06: Attribute 30 12 39313934 00:26:06: Attribute 31 12 39313934 00:26:06: Attribute 2 18 FC2DE489 00:26:06: Attribute 6 6 00000002 00:26:06: Attribute 7 6 00000001 00:26:06: RADIUS: Received from id 10 172.18.124.114:1645, Access-Accept, len 58 00:26:06: Attribute 7 6 00000001 00:26:06: Attribute 6 6 00000002 00:26:06: Attribute 26 26 0000000901146970 00:26:06: RADIUS: saved authorization data for user 618FFB0 at 618FEAE4 00:26:06: AAA/AUTHEN (2962877775): status = PASS 00:26:06: As5 AAA/AUTHOR/LCP: Authorize LCP 00:26:06: As5 AAA/AUTHOR/LCP (3264835197): Port='Async5' list='' service=NET 00:26:06: AAA/AUTHOR/LCP: As5 (3264835197) user='pool_test' 00:26:06: As5 AAA/AUTHOR/LCP (3264835197): send AV service=ppp 00:26:06: As5 AAA/AUTHOR/LCP (3264835197): send AV protocol=lcp 00:26:06: As5 AAA/AUTHOR/LCP (3264835197): found list "default" 00:26:06: As5 AAA/AUTHOR/LCP (3264835197): Method=radius (radius) 00:26:06: RADIUS: cisco AVPair "ip:addr-pool=pool1" not applied for lcp 00:26:06: As5 AAA/AUTHOR (3264835197): Post authorization status = PASS_REPL 00:26:06: As5 AAA/AUTHOR/LCP: Processing AV service=ppp 00:26:06: As5 PAP: O AUTH-ACK id 31 len 5 00:26:06: As5 PPP: Phase is UP 00:26:06: As5 AAA/AUTHOR/FSM: (0): Can we start IPCP? 00:26:06: As5 AAA/AUTHOR/FSM (2404696831): Port='Async5' list='' service=NET 00:26:06: AAA/AUTHOR/FSM: As5 (2404696831) user='pool_test' 00:26:06: As5 AAA/AUTHOR/FSM (2404696831): send AV service=ppp 00:26:06: As5 AAA/AUTHOR/FSM (2404696831): send AV protocol=ip 00:26:06: As5 AAA/AUTHOR/FSM (2404696831): found list "default" 00:26:06: As5 AAA/AUTHOR/FSM (2404696831): Method=radius (radius) 00:26:06: RADIUS: cisco AVPair "ip:addr-pool=pool1" 00:26:06: As5 AAA/AUTHOR (2404696831): Post authorization status = PASS_REPL 00:26:06: As5 AAA/AUTHOR/FSM: We can start IPCP 00:26:06: As5 IPCP: O CONFREQ [Closed] id 1 len 10 00:26:06: As5 IPCP: Address 14.36.1.53 (0x03060E240135) 00:26:07: As5 CCP: I CONFREQ [Not negotiated] id 4 len 10 00:26:07: As5 CCP: MS-PPC supported bits 0x00000001 (0x120600000001) 00:26:07: As5 LCP: O PROTREQ [Open] id 4 len 16 protocol CCP (0x80FD0104000A120600000001) 00:26:07: As5 IPCP: I CONFREQ [REQsent] id 5 len 40 00:26:07: As5 IPCP: CompressType VJ 15 slots CompressSlotID (0x0206002D0F01) 00:26:07: As5 IPCP: Address 0.0.0.0 (0x030600000000) 00:26:07: As5 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000) 00:26:07: As5 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000) 00:26:07: As5 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000) 00:26:07: As5 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000) 00:26:07: As5 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 0.0.0.0 00:26:07: As5 AAA/AUTHOR/IPCP: Says use pool pool1 00:26:07: AAA: parse name=Async5 idb type=10 tty=5 00:26:07: AAA: name=Async5 flags=0x11 type=4 shelf=0 slot=0 adapter=0 port=5 channel=0 00:26:07: AAA: parse name=Serial0:18 idb type=12 tty=-1 00:26:07: AAA: name=Serial0:18 flags=0x51 type=1 shelf=0 slot=0 adapter=0 port=0 channel=18 00:26:07: AAA/MEMORY: create_user (0x618FFCD8) user='nas1-pools' ruser='' port='Async5' rem_addr='9194722001/9194724101' authen_type=NONE service=NONE priv=1 00:26:07: As5 AAA/AUTHOR/POOL (3562270977): Port='Async5' list='' service=NET 00:26:07: AAA/AUTHOR/POOL: As5 (3562270977) user='nas1-pools' 00:26:07: As5 AAA/AUTHOR/POOL (3562270977): send AV service=ppp 00:26:07: As5 AAA/AUTHOR/POOL (3562270977): send AV protocol=ip 00:26:07: Async5 AAA/AUTHOR/POOL (3562270977): found list "default" 00:26:07: As5 AAA/AUTHOR/POOL (3562270977): Method=radius (radius) 00:26:07: RADIUS: authenticating to get author data 00:26:07: RADIUS: ustruct sharecount=2 00:26:07: RADIUS: Initial Transmit Async5 id 11 172.18.124.114:1645, Access-Request, len 98 00:26:07: Attribute 4 6 01010101 00:26:07: Attribute 5 6 00000005 00:26:07: Attribute 61 6 00000000 00:26:07: Attribute 1 12 6E617331 00:26:07: Attribute 30 12 39313934 00:26:07: Attribute 31 12 39313934 00:26:07: Attribute 2 18 E6DF8390 00:26:07: Attribute 6 6 00000005 00:26:07: RADIUS: Received from id 11 172.18.124.114:1645, Access-Accept, len 69 00:26:07: Attribute 6 6 00000005 00:26:07: Attribute 26 43 0000000901256970 00:26:07: RADIUS: saved authorization data for user 618FFCD8 at 61450E5C 00:26:07: RADIUS: cisco AVPair "ip:pool-def#1=pool1 1.2.3.4 1.2.3.5" 00:26:07: AAA/AUTHOR (3562270977): Post authorization status = PASS_REPL 00:26:07: As5 AAA/AUTHOR/CONFIG: Processing AV pool-def#1=pool1 1.2.3.4 1.2.3.5

```

00:26:07: AAA/MEMORY: free_user (0x618FFCD8) user='nas1-pools' ruser='' port='Async5'
rem_addr='9194722001/9194724101' authen_type=NONE service=NONE priv=1 00:26:07: As5
AAA/AUTHOR/IPCP: Pool returned 1.2.3.4 00:26:07: As5 AAA/AUTHOR/IPCP: Processing AV service=ppp
00:26:07: As5 AAA/AUTHOR/IPCP: Processing AV addr-pool=pool1 00:26:07: As5 AAA/AUTHOR/IPCP:
Processing AV addr*1.2.3.4 00:26:07: As5 AAA/AUTHOR/IPCP: Authorization succeeded 00:26:07: As5
AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 1.2.3.4 00:26:07: As5 IPCP: O CONFREQ
[REQsent] id 5 len 34 00:26:07: As5 IPCP: CompressType VJ 15 slots CompressSlotID
(0x0206002D0F01) 00:26:07: As5 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000) 00:26:07: As5 IPCP:
PrimaryWINS 0.0.0.0 (0x820600000000) 00:26:07: As5 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000)
00:26:07: As5 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000) 00:26:07: As5 IPCP: I CONFACK
[REQsent] id 1 len 10 00:26:07: As5 IPCP: Address 14.36.1.53 (0x03060E240135) 00:26:07: As5
IPCP: I CONFREQ [ACKrcvd] id 6 len 10 00:26:07: As5 IPCP: Address 0.0.0.0 (0x030600000000)
00:26:07: As5 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 1.2.3.4 00:26:07: As5
AAA/AUTHOR/IPCP: Processing AV service=ppp 00:26:07: As5 AAA/AUTHOR/IPCP: Processing AV addr-
pool=pool1 00:26:07: As5 AAA/AUTHOR/IPCP: Processing AV addr*1.2.3.4 00:26:07: As5
AAA/AUTHOR/IPCP: Authorization succeeded 00:26:07: As5 AAA/AUTHOR/IPCP: Done. Her address
0.0.0.0, we want 1.2.3.4 00:26:07: As5 IPCP: O CONFNAK [ACKrcvd] id 6 len 10 00:26:07: As5 IPCP:
Address 1.2.3.4 (0x030601020304) 00:26:07: As5 IPCP: I CONFREQ [ACKrcvd] id 7 len 10 00:26:07:
As5 IPCP: Address 1.2.3.4 (0x030601020304) 00:26:07: As5 AAA/AUTHOR/IPCP: Start. Her address
1.2.3.4, we want 1.2.3.4 00:26:07: As5 AAA/AUTHOR/IPCP: Request 1.2.3.4 from pool pool1
00:26:07: As5 AAA/AUTHOR/IPCP: Pool grants 1.2.3.4 00:26:07: As5 AAA/AUTHOR/IPCP: Processing AV
service=ppp 00:26:07: As5 AAA/AUTHOR/IPCP: Processing AV addr-pool=pool1 00:26:07: As5
AAA/AUTHOR/IPCP: Processing AV addr*1.2.3.4 00:26:07: As5 AAA/AUTHOR/IPCP: Authorization
succeeded 00:26:07: As5 AAA/AUTHOR/IPCP: Done. Her address 1.2.3.4, we want 1.2.3.4 00:26:07:
As5 IPCP: O CONFACK [ACKrcvd] id 7 len 10 00:26:07: As5 IPCP: Address 1.2.3.4 (0x030601020304)
00:26:07: As5 IPCP: State is Open 00:26:07: As5 IPCP: Install route to 1.2.3.4 00:26:07:
%LINEPROTO-5-UPDOWN: Line protocol on Interface Async5, changed state to up as5300#show caller
ip Line User IP Address Local Number Remote Number <-> As5 pool_test 1.2.3.4 9194724101
9194722001 as5300#show ip local pool Pool Begin End Free In use pool1 1.2.3.4 1.2.3.5 1 1
(dynamic)

```

Configuration de NAS TACACS+

```

aaa new-model
aaa authentication login default group tacacs+
aaa authentication ppp default if-needed group tacacs+
aaa authorization network default group tacacs+
aaa configuration config-username nas1-pools
tacacs-server host 172.18.124.114
tacacs-server key cisco

```

Profil de groupe de NAS de serveur d'AAA

```

./ViewProfile -p 9900 -u nas1-pools
User Profile Information
user = nas1-pools
profile_id = 63
profile_cycle = 8
service=ppp {
protocol=ip {
set pool-def#1="pool1 1.2.3.4 1.2.3.5"
}
}
}

```

Profil utilisateur de serveur d'AAA

```

./ViewProfile -p 9900 -u pool_test
User Profile Information
user = pool_test{
profile_id = 46
profile_cycle = 15

```

```
password = pap "*****"  
service=ppp {  
protocol=lcp {  
}  
protocol=ip {  
set addr-pool=pool1  
}  
}  
  
}
```

Sortie de débogage

```
Script started on Mon Dec 10 13:22:05 2001  
ddunlap@rtp-cse-353% telnet 172.18.124.114  
Trying 172.18.124.114...  
Connected to 172.18.124.114.  
Escape character is '^']'.
```

UNIX(r) System V Release 4.0 (rtp-evergreen)

```
login: root  
Password:  
Last login: Mon Dec 10 10:09:01 from rtp-cse-353.cisc  
Sun Microsystems Inc. SunOS 5.5.1 Generic May 1996  
Sun Microsystems Inc. SunOS 5.5.1 Generic May 1996  
# telnet 14.36.1.53  
Trying 14.36.1.53...  
Connected to 14.36.1.53.  
Escape character is '^']'.
```

User Access Verification

```
Username: testuser  
Password:
```

```
as5300>en  
Password:  
as5300#show debug General OS: TACACS access control debugging is on AAA Authentication debugging  
is on AAA Authorization debugging is on PPP: PPP protocol negotiation debugging is on  
as5300#terminal monitor as5300# 00:06:29: As1 LCP: I CONFREQ [Closed] id 0 len 23 00:06:29: As1  
LCP: ACCM 0x00000000 (0x020600000000) 00:06:29: As1 LCP: MagicNumber 0x00006D9C (0x050600006D9C)  
00:06:29: As1 LCP: PFC (0x0702) 00:06:29: As1 LCP: ACFC (0x0802) 00:06:29: As1 LCP: Callback 6  
(0x0D0306) 00:06:29: As1 LCP: Lower layer not up, Fast Starting 00:06:29: As1 PPP: Treating  
connection as a dedicated line 00:06:29: As1 PPP: Phase is ESTABLISHING, Active Open 00:06:29:  
As1 AAA/AUTHOR/FSM: (0): LCP succeeds trivially 00:06:29: As1 LCP: O CONFREQ [Closed] id 1 len  
24 00:06:29: As1 LCP: ACCM 0x000A0000 (0x0206000A0000) 00:06:29: As1 LCP: AuthProto PAP  
(0x0304C023) 00:06:29: As1 LCP: MagicNumber 0xD0C0094C (0x0506D0C0094C) 00:06:29: As1 LCP: PFC  
(0x0702) 00:06:29: As1 LCP: ACFC (0x0802) 00:06:29: As1 LCP: O CONFREQ [REQsent] id 0 len 7  
00:06:29: As1 LCP: Callback 6 (0x0D0306) 00:06:29: %LINK-3-UPDOWN: Interface Async1, changed  
state to up 00:06:31: As1 LCP: TIMEOUT: State REQsent 00:06:31: As1 LCP: O CONFREQ [REQsent] id  
2 len 24 00:06:31: As1 LCP: ACCM 0x000A0000 (0x0206000A0000) 00:06:31: As1 LCP: AuthProto PAP  
(0x0304C023) 00:06:31: As1 LCP: MagicNumber 0xD0C0094C (0x0506D0C0094C) 00:06:31: As1 LCP: PFC  
(0x0702) 00:06:31: As1 LCP: ACFC (0x0802) 00:06:31: As1 LCP: I CONFACK [REQsent] id 2 len 24  
00:06:31: As1 LCP: ACCM 0x000A0000 (0x0206000A0000) 00:06:31: As1 LCP: AuthProto PAP  
(0x0304C023) 00:06:31: As1 LCP: MagicNumber 0xD0C0094C (0x0506D0C0094C) 00:06:31: As1 LCP: PFC  
(0x0702) 00:06:31: As1 LCP: ACFC (0x0802) 00:06:32: As1 LCP: I CONFREQ [ACKrcvd] id 0 len 23  
00:06:32: As1 LCP: ACCM 0x00000000 (0x020600000000) 00:06:32: As1 LCP: MagicNumber 0x00006D9C  
(0x050600006D9C) 00:06:32: As1 LCP: PFC (0x0702) 00:06:32: As1 LCP: ACFC (0x0802) 00:06:32: As1  
LCP: Callback 6 (0x0D0306) 00:06:32: As1 LCP: O CONFREQ [ACKrcvd] id 0 len 7 00:06:32: As1 LCP:  
Callback 6 (0x0D0306) 00:06:32: As1 LCP: I CONFREQ [ACKrcvd] id 1 len 20 00:06:32: As1 LCP: ACCM  
0x00000000 (0x020600000000) 00:06:32: As1 LCP: MagicNumber 0x00006D9C (0x050600006D9C) 00:06:32:
```

As1 LCP: PFC (0x0702) 00:06:32: As1 LCP: ACFC (0x0802) 00:06:32: As1 LCP: O CONFACK [ACKrcvd] id 1 len 20 00:06:32: As1 LCP: ACCM 0x00000000 (0x020600000000) 00:06:32: As1 LCP: MagicNumber 0x00006D9C (0x050600006D9C) 00:06:32: As1 LCP: PFC (0x0702) 00:06:32: As1 LCP: ACFC (0x0802) 00:06:32: As1 LCP: State is Open 00:06:32: As1 PPP: Phase is AUTHENTICATING, by this end 00:06:32: As1 LCP: I IDENTIFY [Open] id 2 len 18 magic 0x00006D9C MSRASV4.00 00:06:32: As1 LCP: I IDENTIFY [Open] id 3 len 21 magic 0x00006D9C MSRAS-1-ZEKIE 00:06:32: As1 PAP: I AUTH-REQ id 24 len 24 from "pool_test" 00:06:32: As1 PAP: Authenticating peer pool_test 00:06:32: AAA: parse name=Async1 idb type=10 tty=1 00:06:32: AAA: name=Async1 flags=0x11 type=4 shelf=0 slot=0 adapter=0 port=1 channel=0 00:06:32: AAA: parse name=Serial0:18 idb type=12 tty=-1 00:06:32: AAA: name=Serial0:18 flags=0x51 type=1 shelf=0 slot=0 adapter=0 port=0 channel=18 00:06:32: AAA/MEMORY: create_user (0x61B26890) user='pool_test' ruser='' port='Async1' rem_addr='9194722001/9194724101' authen_type=PAP service=PPP priv=1 00:06:32: AAA/AUTHEN/START (4053426223): port='Async1' list='' action=LOGIN service=PPP 00:06:32: AAA/AUTHEN/START (4053426223): using "default" list 00:06:32: AAA/AUTHEN (4053426223): status = UNKNOWN 00:06:32: AAA/AUTHEN/START (4053426223): Method=tacacs+ (tacacs+) 00:06:32: TAC+: send AUTHEN/START packet ver=193 id=4053426223 00:06:32: TAC+: Using default tacacs server-group "tacacs+" list. 00:06:32: TAC+: Opening TCP/IP to 172.18.124.114/49 timeout=10 00:06:32: TAC+: Opened TCP/IP handle 0x618FDF3C to 172.18.124.114/49 using source 14.36.1.53 00:06:32: TAC+: 172.18.124.114 (4053426223) AUTHEN/START/LOGIN/PAP queued 00:06:32: TAC+: (4053426223) AUTHEN/START/LOGIN/PAP processed 00:06:32: TAC+: ver=193 id=4053426223 received AUTHEN status = PASS 00:06:32: AAA/AUTHEN (4053426223): status = PASS 00:06:32: TAC+: Closing TCP/IP 0x618FDF3C connection to 172.18.124.114/49 00:06:32: As1 AAA/AUTHOR/LCP: Authorize LCP 00:06:32: As1 AAA/AUTHOR/LCP (2507907283): Port='Async1' list='' service=NET 00:06:32: AAA/AUTHOR/LCP: As1 (2507907283) user='pool_test' 00:06:32: As1 AAA/AUTHOR/LCP (2507907283): send AV service=ppp 00:06:32: As1 AAA/AUTHOR/LCP (2507907283): send AV protocol=lcp 00:06:32: As1 AAA/AUTHOR/LCP (2507907283): found list "default" 00:06:32: As1 AAA/AUTHOR/LCP (2507907283): Method=tacacs+ (tacacs+) 00:06:32: AAA/AUTHOR/TAC+: (2507907283): user=pool_test 00:06:32: AAA/AUTHOR/TAC+: (2507907283): send AV service=ppp 00:06:32: AAA/AUTHOR/TAC+: (2507907283): send AV protocol=lcp 00:06:32: TAC+: using previously set server 172.18.124.114 from group tacacs+ 00:06:32: TAC+: Opening TCP/IP to 172.18.124.114/49 timeout=10 00:06:32: TAC+: Opened TCP/IP handle 0x61B3B1A4 to 172.18.124.114/49 using source 14.36.1.53 00:06:32: TAC+: Opened 172.18.124.114 index=1 00:06:32: TAC+: 172.18.124.114 (2507907283) AUTHOR/START queued 00:06:33: TAC+: (2507907283) AUTHOR/START processed 00:06:33: TAC+: (2507907283): received author response status = PASS_ADD 00:06:33: TAC+: Closing TCP/IP 0x61B3B1A4 connection to 172.18.124.114/49 00:06:33: As1 AAA/AUTHOR (2507907283): Post authorization status = PASS_ADD 00:06:33: As1 PAP: O AUTH-ACK id 24 len 5 00:06:33: As1 PPP: Phase is UP 00:06:33: As1 AAA/AUTHOR/FSM: (0): Can we start IPCP? 00:06:33: As1 AAA/AUTHOR/FSM (924563050): Port='Async1' list='' service=NET 00:06:33: AAA/AUTHOR/FSM: As1 (924563050) user='pool_test' 00:06:33: As1 AAA/AUTHOR/FSM (924563050): send AV service=ppp 00:06:33: As1 AAA/AUTHOR/FSM (924563050): send AV protocol=ip 00:06:33: As1 AAA/AUTHOR/FSM (924563050): found list "default" 00:06:33: As1 AAA/AUTHOR/FSM (924563050): Method=tacacs+ (tacacs+) 00:06:33: AAA/AUTHOR/TAC+: (924563050): user=pool_test 00:06:33: AAA/AUTHOR/TAC+: (924563050): send AV service=ppp 00:06:33: AAA/AUTHOR/TAC+: (924563050): send AV protocol=ip 00:06:33: TAC+: using previously set server 172.18.124.114 from group tacacs+ 00:06:33: TAC+: Opening TCP/IP to 172.18.124.114/49 timeout=10 00:06:33: TAC+: Opened TCP/IP handle 0x61B3B620 to 172.18.124.114/49 using source 14.36.1.53 00:06:33: TAC+: Opened 172.18.124.114 index=1 00:06:33: TAC+: 172.18.124.114 (924563050) AUTHOR/START queued 00:06:33: As1 CCP: I CONFREQ [Not negotiated] id 4 len 10 00:06:33: As1 CCP: MS-PPC supported bits 0x00000001 (0x120600000001) 00:06:33: As1 LCP: O PROTREJ [Open] id 3 len 16 protocol CCP (0x80FD0104000A120600000001) 00:06:33: As1 IPCP: I CONFREQ [Closed] id 5 len 40 00:06:33: As1 IPCP: CompressType VJ 15 slots CompressSlotID (0x0206002D0F01) 00:06:33: As1 IPCP: Address 0.0.0.0 (0x030600000000) 00:06:33: As1 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000) 00:06:33: As1 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000) 00:06:33: As1 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000) 00:06:33: As1 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000) 00:06:33: TAC+: (924563050) AUTHOR/START processed 00:06:33: TAC+: (924563050): received author response status = PASS_ADD 00:06:33: TAC+: Closing TCP/IP 0x61B3B620 connection to 172.18.124.114/49 00:06:33: As1 AAA/AUTHOR (924563050): Post authorization status = PASS_ADD 00:06:33: As1 AAA/AUTHOR/FSM: We can start IPCP 00:06:33: As1 IPCP: O CONFREQ [Closed] id 1 len 10 00:06:33: As1 IPCP: Address 14.36.1.53 (0x03060E240135) 00:06:33: As1 IPCP: I CONFACK [REQsent] id 1 len 10 00:06:33: As1 IPCP: Address 14.36.1.53 (0x03060E240135) 00:06:34: %LINEPROTO-5-UPDOWN: Line protocol on Interface Async1, changed state to up 00:06:34: As1 IPCP: I CONFREQ [ACKrcvd] id 5 len 40 00:06:34: As1 IPCP: CompressType VJ 15 slots CompressSlotID (0x0206002D0F01) 00:06:34: As1 IPCP: Address 0.0.0.0 (0x030600000000) 00:06:34: As1 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000) 00:06:34: As1 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000) 00:06:34: As1 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000) 00:06:34: As1 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000) 00:06:34:


```

As1 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 0.0.0.0 00:06:34: As1 AAA/AUTHOR/IPCP:
Says use pool pool1 00:06:34: AAA: parse name=Async1 idb type=10 tty=1 00:06:34: AAA:
name=Async1 flags=0x11 type=4 shelf=0 slot=0 adapter=0 port=1 channel=0 00:06:34: AAA: parse
name=Serial0:18 idb type=12 tty=-1 00:06:34: AAA: name=Serial0:18 flags=0x51 type=1 shelf=0
slot=0 adapter=0 port=0 channel=18 00:06:34: AAA/MEMORY: create_user (0x61451E1C) user='nas1-
pools' ruser='' port='Async1' rem_addr='9194722001/9194724101' authen_type=NONE service=NONE
priv=1 00:06:34: As1 AAA/AUTHOR/POOL (2293413778): Port='Async1' list='' service=NET 00:06:34:
AAA/AUTHOR/POOL: As1 (2293413778) user='nas1-pools' 00:06:34: As1 AAA/AUTHOR/POOL (2293413778):
send AV service=ppp 00:06:34: As1 AAA/AUTHOR/POOL (2293413778): send AV protocol=ip 00:06:34:
Async1 AAA/AUTHOR/POOL (2293413778): found list "default" 00:06:34: As1 AAA/AUTHOR/POOL
(2293413778): Method=tacacs+ (tacacs+) 00:06:34: AAA/AUTHOR/TAC+: (2293413778): user=nas1-pools
00:06:34: AAA/AUTHOR/TAC+: (2293413778): send AV service=ppp 00:06:34: AAA/AUTHOR/TAC+:
(2293413778): send AV protocol=ip 00:06:34: TAC+: Using default tacacs server-group "tacacs+"
list. 00:06:34: TAC+: Opening TCP/IP to 172.18.124.114/49 timeout=10 00:06:34: TAC+: Opened
TCP/IP handle 0x61B3BA9C to 172.18.124.114/49 using source 14.36.1.53 00:06:34: TAC+:
172.18.124.114 (2293413778) AUTHOR/START queued 00:06:34: TAC+: (2293413778) AUTHOR/START
processed 00:06:34: TAC+: (2293413778): received author response status = PASS_ADD 00:06:34:
TAC+: Closing TCP/IP 0x61B3BA9C connection to 172.18.124.114/49 00:06:34: AAA/AUTHOR
(2293413778): Post authorization status = PASS_ADD 00:06:34: As1 AAA/AUTHOR/CONFIG: Processing
AV service=ppp 00:06:34: As1 AAA/AUTHOR/CONFIG: Processing AV protocol=ip 00:06:34: As1
AAA/AUTHOR/CONFIG: Processing AV pool-def#1=pool1 1.2.3.4 1.2.3.5 00:06:34: AAA/MEMORY:
free_user (0x61451E1C) user='nas1-pools' ruser='' port='Async1' rem_addr='9194722001/9194724101'
authen_type=NONE service=NONE priv=1 00:06:34: As1 AAA/AUTHOR/IPCP: Pool returned 1.2.3.4
00:06:34: As1 AAA/AUTHOR/IPCP: Processing AV service=ppp 00:06:34: As1 AAA/AUTHOR/IPCP:
Processing AV protocol=ip 00:06:34: As1 AAA/AUTHOR/IPCP: Processing AV addr-pool=pool1 00:06:34:
As1 AAA/AUTHOR/IPCP: Processing AV addr*1.2.3.4 00:06:34: As1 AAA/AUTHOR/IPCP: Authorization
succeeded 00:06:34: As1 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 1.2.3.4 00:06:34:
As1 IPCP: O CONFREJ [ACKrcvd] id 5 len 34 00:06:34: As1 IPCP: CompressType VJ 15 slots
CompressSlotID (0x0206002D0F01) 00:06:34: As1 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000)
00:06:34: As1 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000) 00:06:34: As1 IPCP: SecondaryDNS
0.0.0.0 (0x830600000000) 00:06:34: As1 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000) 00:06:34:
As1 IPCP: I CONFREQ [ACKrcvd] id 6 len 10 00:06:34: As1 IPCP: Address 0.0.0.0 (0x030600000000)
00:06:34: As1 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 1.2.3.4 00:06:34: As1
AAA/AUTHOR/IPCP: Processing AV service=ppp 00:06:34: As1 AAA/AUTHOR/IPCP: Processing AV
protocol=ip 00:06:34: As1 AAA/AUTHOR/IPCP: Processing AV addr-pool=pool1 00:06:34: As1
AAA/AUTHOR/IPCP: Processing AV addr*1.2.3.4 00:06:34: As1 AAA/AUTHOR/IPCP: Authorization
succeeded 00:06:34: As1 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 1.2.3.4 00:06:34:
As1 IPCP: O CONFNAK [ACKrcvd] id 6 len 10 00:06:34: As1 IPCP: Address 1.2.3.4 (0x030601020304)
00:06:34: As1 IPCP: I CONFREQ [ACKrcvd] id 7 len 10 00:06:34: As1 IPCP: Address 1.2.3.4
(0x030601020304) 00:06:34: As1 AAA/AUTHOR/IPCP: Start. Her address 1.2.3.4, we want 1.2.3.4
00:06:34: As1 AAA/AUTHOR/IPCP: Request 1.2.3.4 from pool pool1 00:06:34: As1 AAA/AUTHOR/IPCP:
Pool grants 1.2.3.4 00:06:34: As1 AAA/AUTHOR/IPCP: Processing AV service=ppp 00:06:34: As1
AAA/AUTHOR/IPCP: Processing AV protocol=ip 00:06:34: As1 AAA/AUTHOR/IPCP: Processing AV addr-
pool=pool1 00:06:34: As1 AAA/AUTHOR/IPCP: Processing AV addr*1.2.3.4 00:06:34: As1
AAA/AUTHOR/IPCP: Authorization succeeded 00:06:34: As1 AAA/AUTHOR/IPCP: Done. Her address
1.2.3.4, we want 1.2.3.4 00:06:34: As1 IPCP: O CONFACK [ACKrcvd] id 7 len 10 00:06:34: As1 IPCP:
Address 1.2.3.4 (0x030601020304) 00:06:34: As1 IPCP: State is Open 00:06:34: As1 IPCP: Install
route to 1.2.3.4 as5300#show caller ip Line User IP Address Local Number Remote Number <-> As1
pool_test 1.2.3.4 9194724101 9194722001 as5300#show ip local pool Pool Begin End Free In use
pool1 1.2.3.4 1.2.3.5 1 1 (dynamic)

```

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