

Usando el servidor de AAA para manejar a las agrupaciones IP en un servidor de acceso a la red

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[Introducción](#)

Este documento proporciona las configuraciones de muestra para usar a un servidor de AAA para manejar a las agrupaciones IP en un servidor de acceso a la red (NAS).

[Antes de comenzar](#)

[Convenciones](#)

Para obtener más información sobre las convenciones del documento, consulte [Convenciones de Consejos Técnicos de Cisco](#).

[prerrequisitos](#)

No hay requisitos previos específicos para este documento.

[Componentes Utilizados](#)

La información que contiene este documento se basa en las versiones de software y hardware indicadas a continuación.

- Versión de software del IOS® de Cisco 12.0.7.T

La información que se presenta en este documento se originó a partir de dispositivos dentro de un ambiente de laboratorio específico. Todos los dispositivos que se utilizan en este documento se pusieron en funcionamiento con una configuración verificada (predeterminada). Si la red está funcionando, asegúrese de haber comprendido el impacto que puede tener un comando antes de ejecutarlo.

[Agrupaciones IP](#)

La negociación de dirección del protocolo during ip control (IPCP), si un nombre de la agrupación IP se especifica para un usuario, el NAS marca si definen al agrupamiento mencionado localmente. Si es, no se requiere ninguna acción especial y consultan a la agrupación local para una dirección IP. Si el agrupamiento requerido no está presente, después una llamada de la autorización para obtenerla se hace, usando el nombre de usuario especial "Pools-nas-name" donde está el nombre del host configurado el "NAS-nombre" del NAS. En la respuesta, el servidor de AAA descarga la configuración del agrupamiento requerido. Usted puede configurar un diverso nombre de usuario del pool con el **comando aaa configuration config-username name of your choosing**.

Este comando tiene el efecto de cambiar el nombre de usuario que se utiliza para descargar las definiciones del pool del nombre predeterminado "Pools-nas-name" a "nombre-de-su-elegir."

No conservan en memoria no volátil y desaparecen automáticamente a los pools descargados a Cisco NAS siempre que los reinicios del servidor de acceso o del router. Los Agrupamientos descargados pueden también ser hechos al time-out automáticamente agregando un par AV conveniente. Marcan a los Agrupamientos descargados como dinámico en la salida del **comando show ip local pools**.

[Configuración RADIUS NAS](#)

```
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
```

[Perfil de conjunto NAS \(Servidor de acceso a la red\) del servidor 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"
}
}
}

```

Este ejemplo muestra el usuario el "nas1-pools" creado en un servidor del CiscoSecure UNIX (CSU). Esta entrada especifica un User-service-type del usuario de salida {6=5}. Este atributo es suministrado por el NAS para evitar que los logines ordinarios usen la combinación bien conocida del nombre de usuario y contraseña de nas1-pools/cisco.

Perfil del usuario del servidor de 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"
}
}
}

```

Verificación

Los diales "más pool_test" del usuario adentro y se asignan una dirección IP de pool1 en el servidor de 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 (0x618FFBB0) 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 618FFBB0 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 PROTREJ [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 CONFREJ [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)

Configuración de TACACS+NAS

```

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

```

Perfil de conjunto NAS (Servidor de acceso a la red) del servidor 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"
}
}
}

```

Perfil del usuario del servidor de 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
}
}
}

```

}

'Resultado de debug'

```
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

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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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