

使用AAA伺服器管理網路接入伺服器中的IP池

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簡介

本文檔提供了使用AAA伺服器管理網路訪問伺服器(NAS)中的IP池的配置示例。

開始之前

慣例

如需文件慣例的詳細資訊，請參閱[思科技術提示慣例](#)。

必要條件

本文件沒有特定先決條件。

採用元件

本檔案中的資訊是根據以下軟體和硬體版本。

- Cisco IOS[®]軟體版本12.0.7.T

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除（預設）的組態來啟動。如果您在即時網路中工作，請確保在使用任何命令之前瞭解其潛在影響。

[IP池](#)

在IP控制協定(IPCP)地址協商期間，如果為使用者指定了IP池名稱，NAS將檢查是否在本機定義命名池。如果是，則不需要特殊操作，並且會為IP地址查詢本地池。如果所需的池不存在，則使用特殊使用者名稱「pools-nas-name」進行獲取該池的授權呼叫，其中「nas-name」是NAS的配置主機名。作為響應，AAA伺服器下載所需池的配置。您可以使用[aaa configuration config-username](#)選擇命令的名稱，設定不同的池使用者名稱。

此命令的效果是將用於下載池定義的使用者名稱從預設名稱「pools-NAS-name」更改為「name-of-your-chosen」。

下載到Cisco NAS的池不會保留在非易失性記憶體中，每當訪問伺服器或路由器重新啟動時，這些池就會自動消失。還可以通過新增合適的AV配對使下載池自動超時。在[show ip local pools](#)命令輸出中，下載的池被標籤為動態。

[RADIUS NAS配置](#)

```
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
```

[AAA伺服器NAS池配置檔案](#)

```
./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"
}
}
}
```

此示例顯示在CiscoSecure UNIX(CSU)伺服器中建立的使用者「nas1-pools」。此條目指定出站使用者{6=5}的使用者服務型別。此屬性由NAS提供，以防止普通登入使用nas1-pools/cisco的公認使用者名稱和密碼組合。

[AAA伺服器使用者設定檔](#)

```
./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"  
}  
}  
  
}
```

驗證

使用者「pool_test」撥入，並從AAA伺服器中的pool1分配一個IP地址。

```
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 CONFREJ [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 618FFBB0 at 618FEAE4
00:26:06: AAA/AUTHEN (296287775): 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)

```

[TACACS+ NAS配置](#)

```
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
```

[AAA伺服器NAS池配置檔案](#)

```
./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"
}
}
}
```

[AAA伺服器使用者設定檔](#)

```
./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
}
}
}
```

[調試輸出](#)

```
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)
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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+)
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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 PROTREQ [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

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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)

相關資訊

- [Cisco Secure UNIX支援頁](#)
- [RADIUS 支援頁面](#)
- [要求建議 \(RFC\)](#)
- [TACACS+支援頁面](#)

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