RADIUS를 사용하여 PPP 세션 및 유휴 시간 제한 할당

목차

소개

이 구성에는 아날로그 회선을 통해 액세스 서버에 전화를 거는 모뎀이 포함된 Windows 95/98/NT 클라이언트가 통합되어 있습니다.사용자의 로그인은 라우터의 이더넷 세그먼트에 있는 RADIUS 서버에서 인증되고 인증됩니다.이 문서의 Cisco Secure UNIX 및 Windows 프로필은 세션 및 유휴 시간 초과에 표준 IETF(Internet Engineering Task Force) 특성을 사용합니다.값은 초 단위입니다.

이 문서에서는 NAS에서 전화 접속 액세스 또는 AAA를 위한 단계별 구성 지침을 제공하지 않습니다.자세한 내용은 전화 접속 클라이언트에 대한 기본 AAA RADIUS 구성을 참조하십시오.

사전 요구 사항

요구 사항

이 문서에 대한 특정 요건이 없습니다.

사용되는 구성 요소

이 문서의 정보는 다음 소프트웨어 및 하드웨어 버전을 기반으로 합니다.

- Cisco IOS® 소프트웨어 릴리스 12.0(5.5)T
- Cisco Secure UNIX 버전 2.2.3
- Cisco Access Server 2511

이 문서의 정보는 특정 랩 환경의 디바이스를 토대로 작성되었습니다.이 문서에 사용된 모든 디바이스는 초기화된(기본) 컨피그레이션으로 시작되었습니다.현재 네트워크가 작동 중인 경우, 모든 명령어의 잠재적인 영향을 미리 숙지하시기 바랍니다.

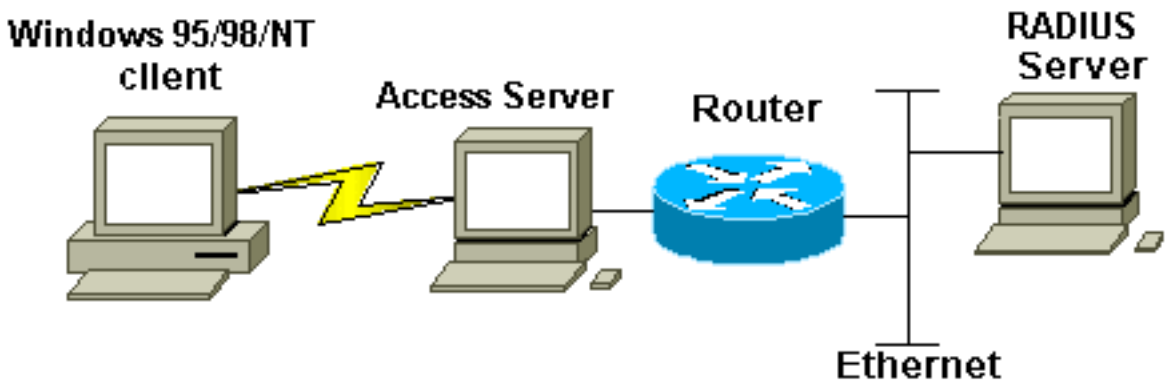
표기 규칙

문서 표기 규칙에 대한 자세한 내용은 Cisco 기술 팁 표기 규칙을 참조하십시오.

구성

네트워크 다이어그램

이 문서에서는 이 다이어그램에 표시된 네트워크 설정을 사용합니다.



구성

이 문서에서는 여기에 표시된 구성을 사용합니다.

- Cisco Secure UNIX:RADIUS 프로파일
- Windows용 Cisco Secure ACS
- 라우터 A

Cisco Secure UNIX:RADIUS 프로파일

```
# ./ViewProfile -p 9900 -u radtime

User Profile Information

user = radtime{
profile_id = 99
profile_cycle = 2
member = raj
radius=IETF {
check_items= {
2=cisco
}
reply_attributes= {
6=2
7=1
27=180
28=60
```

```
}
}
}
```

Windows용 Cisco Secure ACS

NAS에 유휴 시간 제한을 전달하도록 Cisco Secure for Windows를 구성하려면 다음 단계를 완료합니다.

1. 왼쪽 막대에서 **User Setup(사용자 설정)** 버튼을 클릭합니다.
2. 해당 사용자로 이동합니다.
3. IETF RADIUS Attributes 섹션의 풀다운 메뉴**에서 Service-type (attribute 6) = Framed** and **Framed-Protocol (attribute 7)=PPP를** 선택합니다.**참고:** 선택한 특성 옆에 있는 확인란을 클릭해야 합니다.서비스 유형 및 프레임 프로토콜.
4. 왼쪽 막대에서 **Group Setup(그룹 설정)** 버튼을 클릭합니다.사용자가 속한 그룹을 선택하고 Edit **Settings**를 클릭합니다.
5. IETF(Internet Engineering Task Force) RADIUS Attributes(IETF(Internet Engineering Task Force) RADIUS 특성) 섹션에서 Attribute 27 **Session-Timeout** and Attribute 28 Idle-**Timeout**(특성 27 **세션 시간 제한** 및 특성 28 유휴 시간 제한) 옆에 있는 확인란을 클릭합니다.각 특성 옆의 상자에서 각 시간 제한(초)에 대해 원하는 값을 지정합니다.

라우터 A

```
Current configuration:
!
version 12.0
service timestamps debug datetime msec
service timestamps log uptime
no service password-encryption
!
hostname router_a
!
no logging console
!--- AAA configuration. The authorization statement is
needed !--- to pass timeout values from ACS to the NAS.
aaa new-model
aaa authentication ppp default if-needed group radius
aaa authorization network default group radius
username john password doe
enable password cisco
!
ip subnet-zero
no ip domain-lookup
!
cns event-service server
!
!
interface Ethernet0
ip address 171.68.201.53 255.255.255.0
no ip directed-broadcast
no ip route-cache
no ip mroute-cache
no cdp enable
!
interface Serial0
no ip address
no ip directed-broadcast
```

```
no ip mroute-cache
shutdown
no fair-queue
no cdp enable
!
interface Group-Async1
ip unnumbered Ethernet0
no ip directed-broadcast
encapsulation ppp
no ip route-cache
no ip mroute-cache
dialer in-band
async mode dedicated
peer default ip address pool default
no cdp enable
ppp authentication pap
group-range 1 16
!
ip local pool default 10.1.1.1
ip classless
ip route 0.0.0.0 0.0.0.0 171.68.201.1
ip route 171.68.0.0 255.255.0.0 171.68.201.1
!
!--- Specify the RADIUS server host and key.
radius-server host 171.68.171.9 auth-port 1645 acct-port
1646
radius-server key ontop
!
line con 0
exec-timeout 0 0
timeout login response 60
transport input pad v120 telnet rlogin udptn
line 1 16
autoselect during-login
autoselect ppp
modem InOut
transport input all
speed 115200
line aux 0
timeout login response 60
line vty 0 4
exec-timeout 0 0
timeout login response 5
password cisco
!
end
```

다음을 확인합니다.

이 섹션에서는 컨피그레이션이 제대로 작동하는지 확인하는 데 사용할 수 있는 정보를 제공합니다.

일부 **show 명령은** 출력 인터프리터 툴 에서 지원되는데(등록된 고객만), 이 툴을 사용하면 **show 명령 출력의 분석 결과를 볼 수 있습니다.**

- **show dialer interface async 1** - DDR(Dial-on-demand routing) 다이얼러 프로파일에 대해 구성된 인터페이스에 대한 정보를 표시합니다.
- **show interfaces async 1** - 직렬 인터페이스 정보를 표시합니다.

이 **show** 명령 출력은 세션 및 유휴 시간 제한이 올바르게 다운로드되었는지 확인하는 방법을 보여줍니다.이 명령을 여러 번 실행하는 것이 좋습니다.이렇게 하면 카운터가 감소하는 것을 관찰할 수

있습니다.

```
router#show dialer interface async 1
Async1 - dialer type = IN-BAND ASYNC NO-PARITY
!--- Check to see that the idletime is 60 seconds for this interface. !--- This was configured
in the RADIUS server. Idle timer (60 sec), Fast idle timer (20 secs)
Wait for carrier (30 secs), Re-enable (15 secs)
Dialer state is data link layer up
Time until disconnect 40 secs (radtime)

Dial String      Successes   Failures    Last DNIS   Last status

router#show interface async 1
Async1 is up, line protocol is up
  Hardware is Async Serial
  Interface is unnumbered. Using address of Ethernet0 (171.68.201.53)
  MTU 1500 bytes, BW 115 Kbit, DLY 100000 usec,
     reliability 253/255, txload 1/255, rxload 1/255
  Encapsulation PPP, loopback not set
  Keepalive not set
  DTR is pulsed for 5 seconds on reset
!--- The session (absolute) and idletime decreases. Time to interface disconnect:  absolute
00:02:41, idle 00:00:36
  LCP Open
  Open: IPCP
  Last input 00:00:18, output 00:00:18, output hang never
  Last clearing of "show interface" counters 3w0d
  Input queue: 1/75/0 (size/max/drops); Total output drops: 0
  Queueing strategy: weighted fair
  Output queue: 0/1000/64/0 (size/max total/threshold/drops)
     Conversations  0/1/16 (active/max active/max total)
     Reserved Conversations 0/0 (allocated/max allocated)
  5 minute input rate 0 bits/sec, 0 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
     3543 packets input, 155629 bytes, 0 no buffer
     Received 0 broadcasts, 0 runts, 0 giants, 0 throttles
     46 input errors, 46 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort
     1903 packets output, 44205 bytes, 0 underruns
     0 output errors, 0 collisions, 44 interface resets
     0 output buffer failures, 0 output buffers swapped out
     0 carrier transitions


router#show interface async 1
Async1 is up, line protocol is up
  Hardware is Async Serial
  Interface is unnumbered. Using address of Ethernet0 (171.68.201.53)
  MTU 1500 bytes, BW 115 Kbit, DLY 100000 usec,
     reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation PPP, loopback not set
  Keepalive not set
  DTR is pulsed for 5 seconds on reset
!--- The user is disconnected because the session !--- timeout (absolute) is reached. Time to
interface disconnect:  absolute 00:00:00, idle 00:00:56
  LCP Open
  Open: IPCP
  Last input 00:00:02, output 00:00:03, output hang never
  Last clearing of "show interface" counters 3w0d
  Input queue: 1/75/0 (size/max/drops); Total output drops: 0
  Queueing strategy: weighted fair
  Output queue: 0/1000/64/0 (size/max total/threshold/drops)
     Conversations  0/1/16 (active/max active/max total)
```

```
     Reserved Conversations 0/0 (allocated/max allocated)
  5 minute input rate 0 bits/sec, 1 packets/sec
  5 minute output rate 0 bits/sec, 0 packets/sec
     3674 packets input, 163005 bytes, 0 no buffer
     Received 0 broadcasts, 0 runts, 0 giants, 0 throttles
     46 input errors, 46 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort
     1984 packets output, 49146 bytes, 0 underruns
     0 output errors, 0 collisions, 44 interface resets
     0 output buffer failures, 0 output buffers swapped out
     0 carrier transitions
```

문제 해결

이 섹션에서는 컨피그레이션 문제를 해결하는 데 사용할 수 있는 정보를 제공합니다.

문제 해결 명령

참고: debug 명령을 실행하기 전에 디버그 명령에 대한 중요 정보를 참조하십시오.

- **debug ppp authentication**—인증 프로토콜 메시지를 표시합니다.이러한 메시지에는 CHAP(Challenge Authentication Protocol) 패킷 교환과 PAP(Password Authentication Protocol) 교환이 포함됩니다.
- **debug ppp negotiation** - PPP 시작 중에 전송된 PPP(Point-to-Point Protocol) 패킷을 표시합니다. 여기서 PPP 옵션은 협상됩니다.
- **debug aaa authorization** - AAA/RADIUS 권한 부여에 대한 정보를 표시합니다.
- **debug radius** - RADIUS와 관련된 자세한 디버깅 정보를 표시합니다.

라우터 디버그

이 디버그 출력은 성공적인 연결을 보여줍니다.

```
*Mar 22 21:11:02.797: AAA: parse name=tty1 idb type=10 tty=1
*Mar 22 21:11:02.801: AAA: name=tty1 flags=0x11 type=4 shelf=0
   slot=0 adapter=0 port=1 channel=0
*Mar 22 21:11:02.801: AAA/MEMORY: create_user (0x57F3A8) user='' ruser=''
   port='tty1' rem_addr='async' authen_type=ASCII service=LOGIN priv=1
*Mar 22 21:11:02.833: AAA/MEMORY: free_user (0x57F3A8) user='' ruser=''
   port='tty1' rem_addr='async' authen_type=ASCII service=LOGIN priv=1
*Mar 22 21:11:02.909: As1 IPCP: Install route to 10.1.1.1
*Mar 22 21:11:04.869: As1 LCP: I CONFREQ [Closed] id 0 len 23
*Mar 22 21:11:04.873: As1 LCP:    ACCM 0x00000000 (0x020600000000)
*Mar 22 21:11:04.877: As1 LCP:    MagicNumber 0x00005F22 (0x050600005F22)
*Mar 22 21:11:04.877: As1 LCP:    PFC (0x0702)
*Mar 22 21:11:04.881: As1 LCP:    ACFC (0x0802)
*Mar 22 21:11:04.881: As1 LCP:    Callback 6  (0x0D0306)
*Mar 22 21:11:04.885: As1 LCP: Lower layer not up, Fast Starting
*Mar 22 21:11:04.889: As1 PPP: Treating connection as a callin
*Mar 22 21:11:04.889: As1 PPP: Phase is ESTABLISHING, Passive Open
*Mar 22 21:11:04.893: As1 LCP: State is Listen
*Mar 22 21:11:04.897: As1 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
*Mar 22 21:11:04.901: As1 LCP: O CONFREQ [Listen] id 104 len 24
*Mar 22 21:11:04.901: As1 LCP:    ACCM 0x000A0000 (0x0206000A0000)
*Mar 22 21:11:04.905: As1 LCP:    AuthProto PAP (0x0304C023)
*Mar 22 21:11:04.909: As1 LCP:    MagicNumber 0x812C7E0C (0x0506812C7E0C)
*Mar 22 21:11:04.913: As1 LCP:    PFC (0x0702)
*Mar 22 21:11:04.913: As1 LCP:    ACFC (0x0802)
```

```
*Mar 22 21:11:04.917: As1 LCP: O CONFREJ [Listen] id 0 len 7
*Mar 22 21:11:04.921: As1 LCP:    Callback 6  (0x0D0306)
3w0d: %LINK-3-UPDOWN: Interface Async1, changed state to up
*Mar 22 21:11:06.897: As1 LCP: TIMEout: State REQsent
*Mar 22 21:11:06.901: As1 LCP: O CONFREQ [REQsent] id 105 len 24
*Mar 22 21:11:06.901: As1 LCP:    ACCM 0x000A0000 (0x0206000A0000)
*Mar 22 21:11:06.905: As1 LCP:    AuthProto PAP (0x0304C023)
*Mar 22 21:11:06.909: As1 LCP:    MagicNumber 0x812C7E0C (0x0506812C7E0C)
*Mar 22 21:11:06.909: As1 LCP:    PFC (0x0702)
*Mar 22 21:11:06.913: As1 LCP:    ACFC (0x0802)
*Mar 22 21:11:07.045: As1 LCP: I CONFACK [REQsent] id 105 len 24
*Mar 22 21:11:07.049: As1 LCP:    ACCM 0x000A0000 (0x0206000A0000)
*Mar 22 21:11:07.053: As1 LCP:    AuthProto PAP (0x0304C023)
*Mar 22 21:11:07.057: As1 LCP:    MagicNumber 0x812C7E0C (0x0506812C7E0C)
*Mar 22 21:11:07.057: As1 LCP:    PFC (0x0702)
*Mar 22 21:11:07.061: As1 LCP:    ACFC (0x0802)
*Mar 22 21:11:07.821: As1 LCP: I CONFREQ [ACKrcvd] id 0 len 23
*Mar 22 21:11:07.825: As1 LCP:    ACCM 0x00000000 (0x0206000000000)
*Mar 22 21:11:07.829: As1 LCP:    MagicNumber 0x00005F22 (0x0506000005F22)
*Mar 22 21:11:07.829: As1 LCP:    PFC (0x0702)
*Mar 22 21:11:07.833: As1 LCP:    ACFC (0x0802)
*Mar 22 21:11:07.833: As1 LCP:    Callback 6  (0x0D0306)
*Mar 22 21:11:07.837: As1 LCP: O CONFREJ [ACKrcvd] id 0 len 7
*Mar 22 21:11:07.841: As1 LCP:    Callback 6  (0x0D0306)
*Mar 22 21:11:07.957: As1 LCP: I CONFREQ [ACKrcvd] id 1 len 20
*Mar 22 21:11:07.961: As1 LCP:    ACCM 0x00000000 (0x0206000000000)
*Mar 22 21:11:07.961: As1 LCP:    MagicNumber 0x00005F22 (0x0506000005F22)
*Mar 22 21:11:07.965: As1 LCP:    PFC (0x0702)
*Mar 22 21:11:07.969: As1 LCP:    ACFC (0x0802)
*Mar 22 21:11:07.969: As1 LCP: O CONFACK [ACKrcvd] id 1 len 20
*Mar 22 21:11:07.973: As1 LCP:    ACCM 0x00000000 (0x0206000000000)
*Mar 22 21:11:07.977: As1 LCP:    MagicNumber 0x00005F22 (0x0506000005F22)
*Mar 22 21:11:07.977: As1 LCP:    PFC (0x0702)
*Mar 22 21:11:07.981: As1 LCP:    ACFC (0x0802)
*Mar 22 21:11:07.985: As1 LCP: State is Open
*Mar 22 21:11:07.985: As1 PPP: Phase is AUTHENTICATING, by this end
*Mar 22 21:11:08.245: As1 LCP: I IDENTIFY [Open] id 2 len 18 magic
   0x00005F22 MSRASV4.00
*Mar 22 21:11:08.249: As1 LCP: I IDENTIFY [Open] id 3 len 31 magic
   0x00005F22 MSRAS-1-RAJESH-SECURITY
*Mar 22 21:11:08.253: As1 PAP: I AUTH-REQ id 30 len 18 from "radtime"
*Mar 22 21:11:08.265: As1 PAP: Authenticating peer radtime
*Mar 22 21:11:08.269: AAA: parse name=Async1 idb type=10 tty=1
*Mar 22 21:11:08.273: AAA: name=Async1 flags=0x11 type=4 shelf=0 slot=0
   adapter=0 port=1 channel=0
*Mar 22 21:11:08.273: AAA/MEMORY: create_user (0x57F3A8) user='radtime' ruser=''
   port='Async1' rem_addr='async' authen_type=PAP service=PPP priv=1
*Mar 22 21:11:08.281: RADIUS: ustruct sharecount=1
*Mar 22 21:11:08.285: RADIUS: Initial Transmit Async1 id 109 172.16.171.9:1645,
   Access-Request, len 77
*Mar 22 21:11:08.289:         Attribute 4 6 AB44C935
*Mar 22 21:11:08.293:         Attribute 5 6 00000001
*Mar 22 21:11:08.293:         Attribute 61 6 00000000
*Mar 22 21:11:08.297:         Attribute 1 9 72616474
*Mar 22 21:11:08.297:         Attribute 2 18 486188E4
*Mar 22 21:11:08.301:         Attribute 6 6 00000002
*Mar 22 21:11:08.301:         Attribute 7 6 00000001
*Mar 22 21:11:08.329: RADIUS: Received from id 109 172.16.171.9:1645,
   Access-Accept, len 44
*Mar 22 21:11:08.333:         Attribute 6 6 00000002
*Mar 22 21:11:08.333:         Attribute 7 6 00000001
*Mar 22 21:11:08.337:         Attribute 27 6 000000B4
*Mar 22 21:11:08.337:         Attribute 28 6 0000003C
```

debug radius 명령의 AVP(특성 값 쌍)를 **디코딩해야** 합니다.따라서 NAS와 RADIUS 서버 간의 트랜잭션을 더 잘 이해할 수 있습니다.

참고: Cisco IOS Software Release 12.2(11)T부터 debug **radius** 명령의 출력이 이미 디코딩되었습니다.출력 인터프리터 툴(등록된 고객만)을 사용하여 출력을 디코딩할 필요는 *없습니다*.자세한 내용은 RADIUS 디버그 개선 사항을 참조하십시오.

Output Interpreter Tool(등록된 고객만 해당)을 사용하면 **debug radius** 명령 출력에 대한 분석을 받을 수 있습니다.

기울임꼴로 출력된 결과는 Output Interpreter Tool에서 얻은 결과입니다(등록된 고객만 해당).

```
Access-Request 172.16.171.9:1645 id 109
Attribute Type 4:  NAS-IP-Address is 171.68.201.53
Attribute Type 5:  NAS-Port is 1
Attribute Type 61: NAS-Port-Type is Asynchronous
Attribute Type 1:  User-Name is radt
Attribute Type 2:  User-Password is (encoded)
Attribute Type 6:  Service-Type is Framed
Attribute Type 7:  Framed-Protocol is PPP
Access-Accept 172.16.171.9:1645 id 109
Attribute Type 6:  Service-Type is Framed
Attribute Type 7:  Framed-Protocol is PPP
Attribute Type 27: Session-Timeout is 180 seconds
Attribute Type 28: Idle-Timeout is 60 seconds
```

세션 시간 제한은 180초이고 유휴 시간 제한은 60초입니다.

```
*Mar 22 21:11:08.345: RADIUS: saved authorization data for user 57F3A8 at 5AB9A4
*Mar 22 21:11:08.349: As1 AAA/AUTHOR/LCP: Authorize LCP
*Mar 22 21:11:08.353: As1 AAA/AUTHOR/LCP (2107569326): Port='Async1'
   list='' service=NET
*Mar 22 21:11:08.353: AAA/AUTHOR/LCP: As1 (2107569326) user='radtime'
*Mar 22 21:11:08.357: As1 AAA/AUTHOR/LCP (2107569326): send AV service=ppp
*Mar 22 21:11:08.357: As1 AAA/AUTHOR/LCP (2107569326): send AV protocol=lcp
*Mar 22 21:11:08.361: As1 AAA/AUTHOR/LCP (2107569326): found list "default"
*Mar 22 21:11:08.365: As1 AAA/AUTHOR/LCP (2107569326): Method=radius (radius)
*Mar 22 21:11:08.369: As1 AAA/AUTHOR (2107569326): Post authorization
   status = PASS_REPL
*Mar 22 21:11:08.369: As1 AAA/AUTHOR/LCP: Processing AV service=ppp
 !--- The session timeout and idle timeouts are applied to the interface. *Mar 22 21:11:08.373:
As1 AAA/AUTHOR/LCP: Processing AV timeout=180
*Mar 22 21:11:08.633: As1 AAA/AUTHOR/LCP: Processing AV idletime=60
*Mar 22 21:11:09.049: As1 PAP: O AUTH-ACK id 30 len 5
*Mar 22 21:11:09.053: As1 PPP: Phase is UP
*Mar 22 21:11:09.057: As1 AAA/AUTHOR/FSM: (0): Can we start IPCP?
*Mar 22 21:11:09.061: As1 AAA/AUTHOR/FSM (1853995855): Port='Async1'
   list='' service=NET
*Mar 22 21:11:09.061: AAA/AUTHOR/FSM: As1 (1853995855) user='radtime'
*Mar 22 21:11:09.065: As1 AAA/AUTHOR/FSM (1853995855): send AV service=ppp
*Mar 22 21:11:09.065: As1 AAA/AUTHOR/FSM (1853995855): send AV protocol=ip
*Mar 22 21:11:09.069: As1 AAA/AUTHOR/FSM (1853995855): found list "default"
*Mar 22 21:11:09.073: As1 AAA/AUTHOR/FSM (1853995855): Method=radius (radius)
*Mar 22 21:11:09.077: As1 AAA/AUTHOR (1853995855): Post authorization
   status = PASS_REPL
*Mar 22 21:11:09.077: As1 AAA/AUTHOR/FSM: We can start IPCP
*Mar 22 21:11:09.085: As1 IPCP: O CONFREQ [Closed] id 19 len 10
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*Mar 22 21:11:09.089: As1 IPCP:    Address 171.68.201.53 (0x0306AB44C935)
*Mar 22 21:11:09.177: As1 CCP: I CONFREQ [Not negotiated] id 4 len 10
*Mar 22 21:11:09.181: As1 CCP:    MS-PPC supported bits 0x00000001
   (0x120600000001)
*Mar 22 21:11:09.185: As1 LCP: O PROTREJ [Open] id 106 len 16
   protocol CCP (0x80FD0104000A120600000001)
*Mar 22 21:11:09.189: As1 IPCP: I CONFREQ [REQsent] id 5 len 40
*Mar 22 21:11:09.193: As1 IPCP:    CompressType VJ 15 slots
   CompressSlotID (0x0206002D0F01)
*Mar 22 21:11:09.197: As1 IPCP:    Address 0.0.0.0 (0x030600000000)
*Mar 22 21:11:09.201: As1 IPCP:    PrimaryDNS 0.0.0.0 (0x810600000000)
*Mar 22 21:11:09.205: As1 IPCP:    PrimaryWINS 0.0.0.0 (0x820600000000)
*Mar 22 21:11:09.209: As1 IPCP:    SecondaryDNS 0.0.0.0 (0x830600000000)
*Mar 22 21:11:09.213: As1 IPCP:    SecondaryWINS 0.0.0.0 (0x840600000000)
*Mar 22 21:11:09.213: As1 AAA/AUTHOR/IPCP: Start.
   Her address 0.0.0.0, we want 10.1.1.1
*Mar 22 21:11:09.217: As1 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar 22 21:11:09.221: As1 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar 22 21:11:09.221: As1 AAA/AUTHOR/IPCP: Done.
   Her address 0.0.0.0, we want 10.1.1.1
*Mar 22 21:11:09.229: As1 IPCP: O CONFREJ [REQsent] id 5 len 34
*Mar 22 21:11:09.229: As1 IPCP:    CompressType VJ 15 slots
   CompressSlotID (0x0206002D0F01)
*Mar 22 21:11:09.233: As1 IPCP:    PrimaryDNS 0.0.0.0 (0x810600000000)
*Mar 22 21:11:09.237: As1 IPCP:    PrimaryWINS 0.0.0.0 (0x820600000000)
*Mar 22 21:11:09.241: As1 IPCP:    SecondaryDNS 0.0.0.0 (0x830600000000)
*Mar 22 21:11:09.245: As1 IPCP:    SecondaryWINS 0.0.0.0 (0x840600000000)
*Mar 22 21:11:09.249: As1 IPCP: I CONFACK [REQsent] id 19 len 10
*Mar 22 21:11:09.253: As1 IPCP:    Address 171.68.201.53 (0x0306AB44C935)
*Mar 22 21:11:09.673: As1 IPCP: I CONFREQ [ACKrcvd] id 6 len 10
*Mar 22 21:11:09.677: As1 IPCP:    Address 0.0.0.0 (0x030600000000)
*Mar 22 21:11:09.681: As1 AAA/AUTHOR/IPCP: Start.
   Her address 0.0.0.0, we want 10.1.1.1
*Mar 22 21:11:09.685: As1 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar 22 21:11:09.685: As1 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar 22 21:11:09.689: As1 AAA/AUTHOR/IPCP: Done.
   Her address 0.0.0.0, we want 10.1.1.1
*Mar 22 21:11:09.693: As1 IPCP: O CONFNAK [ACKrcvd] id 6 len 10
*Mar 22 21:11:09.697: As1 IPCP:    Address 10.1.1.1 (0x03060A010101)
*Mar 22 21:11:09.813: As1 IPCP: I CONFREQ [ACKrcvd] id 7 len 10
*Mar 22 21:11:09.817: As1 IPCP:    Address 10.1.1.1 (0x03060A010101)
*Mar 22 21:11:09.821: As1 AAA/AUTHOR/IPCP: Start.
   Her address 10.1.1.1, we want 10.1.1.1
*Mar 22 21:11:09.825: As1 AAA/AUTHOR/IPCP (1344088998): Port='Async1'
   list='' service=NET
*Mar 22 21:11:09.829: AAA/AUTHOR/IPCP: As1 (1344088998) user='radtime'
*Mar 22 21:11:09.833: As1 AAA/AUTHOR/IPCP (1344088998): send AV service=ppp
*Mar 22 21:11:09.833: As1 AAA/AUTHOR/IPCP (1344088998): send AV protocol=ip
*Mar 22 21:11:09.837: As1 AAA/AUTHOR/IPCP (1344088998): send AV addr*10.1.1.1
*Mar 22 21:11:09.837: As1 AAA/AUTHOR/IPCP (1344088998): found list "default"
*Mar 22 21:11:09.841: As1 AAA/AUTHOR/IPCP (1344088998): Method=radius (radius)
*Mar 22 21:11:09.845: As1 AAA/AUTHOR (1344088998): Post authorization
   status = PASS_REPL
*Mar 22 21:11:09.849: As1 AAA/AUTHOR/IPCP: Reject 10.1.1.1, using 10.1.1.1
*Mar 22 21:11:09.853: As1 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar 22 21:11:09.857: As1 AAA/AUTHOR/IPCP: Processing AV addr*10.1.1.1
*Mar 22 21:11:09.857: As1 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar 22 21:11:09.861: As1 AAA/AUTHOR/IPCP: Done.
   Her address 10.1.1.1, we want 10.1.1.1
*Mar 22 21:11:09.865: As1 IPCP: O CONFACK [ACKrcvd] id 7 len 10
*Mar 22 21:11:09.869: As1 IPCP:    Address 10.1.1.1 (0x03060A010101)
*Mar 22 21:11:09.873: As1 IPCP: State is Open
*Mar 22 21:11:09.885: As1 IPCP: Install route to 10.1.1.1
3w0d: %LINEPROTO-5-UPDOWN: Line protocol on Interface Async1,
```

```
changed state to up
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관련 정보

- 전화 접속 클라이언트에 대한 기본 AAA RADIUS 구성
- RADIUS 지원 페이지
- Cisco Secure UNIX 지원 페이지
- Livingston Server로 RADIUS 구성
- RFC(Request for Comments)
- Technical Support - Cisco Systems