Configurando RADIUS AAA básico para clientes de discagem

Índice

Introdução

Este documento descreve uma configuração de exemplo usando um servidor de acesso para aceitar o analógico entrante e as conexões ISDN, e autentica-os que usam um server do Remote Authentication Dial-In User Service (RADIUS) do Authentication, Authorization, and Accounting (AAA). Para obter mais informações sobre do AAA e do RAIO, refira os seguintes documentos:

- Configurando o RAIO
- Configurando AAA básico em um servidor de acesso

Pré-requisitos

Requisitos

Esta configuração supõe que o servidor Radius se estabelece corretamente. Esta configuração igualmente trabalha com a maioria de servidores Radius disponíveis no comércio. Refira sua documentação do servidor Radius para mais informações sobre da configuração do servidor apropriada.

Componentes Utilizados

As informações neste documento são baseadas nas versões de software e hardware abaixo.

- Cisco AS5300 com um T1 PRI e os 48 modens digitais. Está executando o Software Release 12.0(7)T de Cisco IOS®.
- CiscoSecure para o server de Unix (CSU), versão 2.3(3).

A configuração específica AAA descrita aqui pode igualmente ser usada com todo o cenário de discagem simples. Assegure-se de que o servidor de acesso possa aceitar chamadas recebidas, a seguir adicionam os comandos aaa apropriados, segundo as indicações da configuração abaixo.

As informações neste documento foram criadas a partir de dispositivos em um ambiente de laboratório específico. Todos os dispositivos utilizados neste documento foram iniciados com uma configuração (padrão) inicial. Se você estiver trabalhando em uma rede ativa, certifique-se de que entende o impacto potencial de qualquer comando antes de utilizá-lo.

Convenções

Para obter mais informações sobre convenções de documento, consulte as Convenções de dicas técnicas Cisco.

Configurar

Nesta seção, você encontrará informações para configurar os recursos descritos neste documento.

Nota: Para localizar informações adicionais sobre os comandos usados neste documento, utilize a Ferramenta Command Lookup (somente clientes registrados).

Diagrama de Rede

Este documento utiliza a instalação de rede mostrada no diagrama abaixo.

Configurações

O CSU e a configuração do CiscoSecure NT (CSNT), e configuração do servidor do acesso de rede (NAS) são fornecidos abaixo. Desde que esta configuração descreve um cenário de discagem simples, a configuração do ciscosecure para o ISDN e os usuários assíncronos são idênticos. A configuração de cliente ISDN não é incluída porque não é relevante para esta configuração RADIUS.

CSU

```
#./ViewProfile -p 9900 -u async_client User Profile
Information user = async_client{ profile_id = 110
profile_cycle = 2 radius=Cisco { check_items= { 2=cisco
!--- Password(2) is "cisco" } reply_attributes= { 6=2 !-
-- Service-Type(6) is Framed (2) 7=1 !--- Frame d-
Protocol(7) is PPP (1) } } } # ./ViewProfile -p 9900 -u
isdn_user User Profile Information user = isdn_user{
profile_id = 24 profile_cycle = 4 radius=Cisco {
check_items= { 2=cisco ! --- Password(2) is "cisco" }
reply_attributes= { 6=2 ! --- Service-Type(6) is Framed
(2) 7=1 ! --- Framed-Protocol(7) is PPP (1) } } }
```

Nota: Para este cenário simples, as configurações de Assíncrono e os usuários de ISDN são idênticos.

CSNT RADIUS

Para configurar o RAIO do CiscoSecure NT (CSNT):

1. Crie os novos usuários nomeados isdn_user e async_client.
2. Configurar a senha apropriada na seção de instalação de usuário
3. Na seção para atributos RADIUS do Internet Engineering Task Force (IETF), selecione os itens seguintes do menu suspenso:**Tipo de serviço (atributo 6) = Framed** e **Framed-Protocol (atributo 7)=PPP****Nota:** Você deve clicar a caixa de seleção situada ao lado dos atributos tipo de serviço e Framed-Protocol.**Nota:** Para este cenário simples, as configurações de Assíncrono e os usuários de ISDN são idênticos.

maui-nas-01

```
maui-nas-01#show running-config Building
configuration... Current configuration: ! version 12.0
service timestamps debug datetime msec service
timestamps log datetime msec service password-encryption
! hostname maui-nas-01 ! aaa new-model !--- Initiates
the AAA access control system. !--- This command
immediately locks down login and PPP authentication. aaa
authentication login default group radius local !---
Exec login (for the list default) is authenticated using
methods !--- radius then local. The router uses RADIUS
for authentication at the !--- login(exec) prompt. If
RADIUS returns an error, the user is authenticated !---
using the local database. aaa authentication login
NO_AUTHEN none !--- Exec login (for the list NO_AUTHEN)
has authentication method none !--- (no authentication).
Interfaces to which this list is applied will not have
!--- authentication enabled. Refer to the console port
(line con 0) configuration. aaa authentication ppp
default if-needed group radius local !--- PPP
authentication (for the list default) uses methods
radius then local. !--- The if-needed keyword
automatically permits ppp for users that have !---
successfully authenticated using exec mode. If the EXEC
facility has !--- authenticated the user, RADIUS
authentication for PPP is not performed. !----This is
necessary for clients that use terminal window after
dial. aaa authorization network default group radius
local !--- Authorization of network services (PPP
services) for the list default !--- uses methods radius
then local. This is neccessary if you use RADIUS !---
for the client IP address, Access List assignment and so
on. enable secret 5 <deleted> ! username admin password
7 <deleted> !--- This username allows for access to the
router in situations where !--- connectivity to the
RADIUS server is lost. This is because the AAA !---
configuration for exec login has the alternate method
local. spe 2/0 2/7 firmware location
system:/ucode/mica_port_firmware ! resource-pool disable
! ip subnet-zero no ip finger ! isdn switch-type
primary-ni !--- Switch type is Primary NI-2. isdn voice-
call-failure 0 mta receive maximum-recipients 0 ! !
controller T1 0 !--- T1 0 controller configuration.
framing esf clock source line primary linecode b8zs pri-
```

```
group timeslots 1-24 ! controller T1 1 !--- T1 1 is
unused. clock source line secondary 1 ! controller T1 2
!--- T1 1 is unused. ! controller T1 3 !--- T1 1 is
unused. ! interface Ethernet0 ip address 172.22.53.141
255.255.255.0 no ip directed-broadcast ! interface
Serial0:23 !--- D-channel configuration for T1 0. no ip
address no ip directed-broadcast encapsulation ppp
dialer pool-member 23 !--- Assign Serial0:23 as member
of dialer pool 23. !--- Dialer pool 23 is specified in
interface Dialer 1. !--- Interface Dialer 1 will
terminate the ISDN calls. isdn switch-type primary-ni
isdn incoming-voice modem !--- Switch incoming analog
calls to the internal digital modems. no cdp enable !
interface FastEthernet0 no ip address no ip directed-
broadcast shutdown duplex auto speed auto ! interface
Group-Async0 !--- Async Group Interface for the modems.
ip unnumbered Ethernet0 !--- Unnumbered to the ethernet
interface. no ip directed-broadcast encapsulation ppp
async mode interactive !--- Configures interactive mode
on the asynchronous interfaces. !--- This allows users
to dial in and get to a shell or PPP session on !---
that line. If you want incoming users to only connect
using PPP configure !--- async mode dedicated instead.
peer default ip address pool ASYNC !--- Use the ip pool
named "ASYNC" to assign ip address for !--- incoming
connections. ppp authentication chap group-range 1 48 !-
-- Lines(modems) 1 through 48 are in this group async
interface. ! interface Dialer1 !--- Dialer1 will
terminate ISDN calls. ip unnumbered Ethernet0 no ip
directed-broadcast encapsulation ppp dialer pool 23 !---
Dialer 1 uses dialer pool 23. Interface Serial0:23 is !-
-- a member of this pool. peer default ip address pool
ISDN !--- Use the ip pool named "ISDN" to assign ip
address for !--- incoming connections. no cdp enable ppp
authentication chap ! ip local pool ISDN 172.22.53.142
172.22.53.145 !--- IP address pool named "ISDN". !---
This pool will be assigned to connections on interface
Dialer 1. ip local pool ASYNC 172.22.53.146
172.22.53.149 !--- IP address pool named "ASYNC". !---
This pool will be assigned to incoming connections on
Group-Async 0. !--- Note: This address pool only has 4
addresses and is not sufficient to !--- support all 48
modem lines. Configure your IP pool with the address
range !--- to support all connections. ip classless no
ip http server ! no cdp run ! radius-server host
172.22.53.201 auth-port 1645 acct-port 1646 key cisco !-
-- Radius-server host IP address and encryption key. !--
- The encryption key must match the onbe configured on
the RADIUS server. ! line con 0 exec-timeout 0 0 login
authentication NO_AUTHEN !--- Specifies that the AAA
list name assigned to the console is !--- NO_AUTHEN.
From the AAA configuration above, the list NO_AUTHEN !--
- does not use authentication. transport input none line
1 48 autoselect during-login !--- Displays the
username:password prompt after modems connect. !---
Without this the user must press enter to receive a
prompt. autoselect ppp !--- When the NAS detects
incoming PPP packets, the PPP session !--- will be
launched. modem InOut transport preferred none transport
input all transport output none line aux 0 line vty 0 4
! end
```

Verificar

Esta seção fornece a informação que você pode se usar para verificar sua configuração.

Exemplo de saída de mostra

```
maui-nas-01#show caller user async_client detail User: async_client, line tty 5, service Async
Active time 00:01:04, Idle time 00:00:22 Timeouts: Absolute Idle Idle Session Exec Limits: - -
00:10:00 Disconnect in: - - - TTY: Line 5, running PPP on As5 Location: PPP: 172.22.53.148 !---
The IP address assigned from the the IP pool. DS0: (slot/unit/channel)=0/0/7 Line: Baud rate
(TX/RX) is 115200/115200, no parity, 1 stopbits, 8 databits Status: Ready, Active, No Exit
Banner, Async Interface Active HW PPP Support Active Capabilities: Hardware Flowcontrol In,
Hardware Flowcontrol Out Modem Callout, Modem RI is CD, Line usable as async interface,
Integrated Modem Modem State: Ready User: async_client, line As5, service PPP Active time
00:00:54, Idle time 00:00:23 Timeouts: Absolute Idle Limits: - - Disconnect in: - - PPP: LCP
Open, CHAP (<- AAA), IPCP !--- CHAP authentication was performed by AAA. LCP: -> peer, ACCM,
AuthProto, MagicNumber, PCompression, ACCompression <- peer, ACCM, MagicNumber, PCompression,
ACCompression NCP: Open IPCP IPCP: <- peer, Address -> peer, Address IP: Local 172.22.53.141,
remote 172.22.53.148 Counts: 40 packets input, 2769 bytes, 0 no buffer 1 input errors, 1 CRC, 0
frame, 0 overrun 24 packets output, 941 bytes, 0 underruns 0 output errors, 0 collisions, 0
interface resets maui-nas-01#show caller user isdn_user detail User: isdn_user, line Se0:8,
service PPP Active time 00:01:22, Idle time 00:01:24 Timeouts: Absolute Idle Limits: - 00:02:00
Disconnect in: - 00:00:35 PPP: LCP Open, CHAP (<- AAA), IPCP !--- CHAP authentication was
performed by AAA. LCP: -> peer, AuthProto, MagicNumber <- peer, MagicNumber NCP: Open IPCP IPCP:
<- peer, Address -> peer, Address Dialer: Connected to , inbound Idle timer 120 secs, idle 84
secs Type is ISDN, group Dialer1 ! -- The ISDN Call uses int Dialer1. IP: Local 172.22.53.141,
remote 172.22.53.142 ! -- The IP address was obtained from the local pool. Counts: 31 packets
input, 872 bytes, 0 no buffer 0 input errors, 0 CRC, 0 frame, 0 overrun 34 packets output, 1018
bytes, 0 underruns 0 output errors, 0 collisions, 5 interface resets
```

Troubleshooting

Esta seção fornece informações que podem ser usadas para o troubleshooting da sua configuração.

Comandos para Troubleshooting

A Output Interpreter Tool (somente clientes registrados) oferece suporte a determinados comandos show, o que permite exibir uma análise da saída do comando show.

Nota: Antes de emitir **comandos debug**, consulte Informações importantes sobre comandos debug.

- **debugar o q931 de ISDN** - Isto mostra a configuração de chamada e rasga-a para baixo da conexão de rede ISDN (camada 3) entre o roteador e o switch ISDN.
- **debugar o modem** - Isto mostra a atividade de linha de modem em um servidor de acesso.
- **debugar a negociação ppp** - Ao Exibir informação no PPP trafique e trocas quando o negociando protocolo de controle de enlace (LCP), a autenticação, e o protocolo network control (NCP). Uma negociação de PPP bem-sucedida abre primeiramente o estado do LCP e, em seguida, autentica e, finalmente, negocia o NCP.
- debug ppp authentication - Para exibir as mensagens do protocolo de autenticação PPP, incluindo trocas de pacote do Protocolo de autenticação de handshake de desafio (CHAP) e trocas do Protocolo de autenticação de senha (PAP).
- **debugar a autenticação aaa** - Ao Exibir informação na autenticação AAA/RADIUS.

- **debug aaa authorization** - Ao Exibir informação na autorização AAA/RADIUS.
- **debugar o raio** - Para indicar o informação detalhada sobre debug associado com o RAIO. Use a ferramenta Output Interpreter (clientes registrados somente) no Web site do Suporte técnico de Cisco para descodificar as mensagens do raio debugar. Para um exemplo, refira o resultado do debug mostrado abaixo. Use a informação do debugam o raio para determinar que atributos são negociados. Nota: Até à data de 12.2(11)T que a saída de debuga o raio é descodificado já e daqui não exige o uso do Output Interpreter descodificar a saída. Refira o RAIO do documento debugam realces para mais informação
- **caller user da mostra** - Para mostrar parâmetros para o usuário particular tal como a linha TTY usada, o interface assíncrono (prateleira, entalhe ou porta), o número de canal DS0, número de modem, endereço IP de Um ou Mais Servidores Cisco ICM NT atribuído, parâmetros de pacote PPP e PPP, e assim por diante. Se sua versão do Cisco IOS Software não suporta este comando, utilize o comando show user.

Exemplo de debug

Se você tem a saída de um **comando debug radius de** seu dispositivo Cisco, você pode usar-se para indicar problemas potenciais e reparos. Para usar-se , você deve ser um cliente registrado, ser entrado, e ter o Javascript permitido.

Para usar o Output Interpreter, você deve ser um cliente registrado, estar conectado e ter o JavaScript ativado.

Nota: Até à data de 12.2(11)T que a saída de debuga o raio é descodificado já e daqui não exige o uso do Output Interpreter descodificar a saída. Refira o RAIO do documento debugam realces para mais informação

```
maui-nas-01#debug isdn q931 ISDN Q931 packets debugging is on maui-nas-01#debug ppp negotiation
PPP protocol negotiation debugging is on maui-nas-01#debug ppp authentication PPP authentication
debugging is on maui-nas-01#debug modem Modem control/process activation debugging is on maui-
nas-01#debug aaa authentication AAA Authentication debugging is on maui-nas-01#debug aaa
authorization AAA Authorization debugging is on maui-nas-01#debug radius RADIUS protocol
debugging is on maui-nas-01# *Apr 5 11:05:07.031: ISDN Se0:23: RX <- SETUP pd = 8 callref =
0x20FC !--- Setup message for incoming call. *Apr 5 11:05:07.031: Bearer Capability i =
0x8890218F *Apr 5 11:05:07.031: Channel ID i = 0xA18387 *Apr 5 11:05:07.031: Called Party Number
i = 0xA1, '81560' *Apr 5 11:05:07.035: %DIALER-6-BIND: Interface Serial0:6 bound to profile
Dialer1 *Apr 5 11:05:07.035: ISDN Se0:23: TX -> CALL_PROC pd = 8 callref = 0xA0FC *Apr 5
11:05:07.035: Channel ID i = 0xA98387 *Apr 5 11:05:07.043: %LINK-3-UPDOWN: Interface Serial0:6,
changed state to up *Apr 5 11:05:07.043: Se0:6 PPP: Treating connection as a callin *Apr 5
11:05:07.043: Se0:6 PPP: Phase is ESTABLISHING, Passive Open *Apr 5 11:05:07.043: Se0:6 LCP:
State is Listen *Apr 5 11:05:07.047: ISDN Se0:23: TX -> CONNECT pd = 8 callref = 0xA0FC *Apr 5
11:05:07.047: Channel ID i = 0xA98387 *Apr 5 11:05:07.079: ISDN Se0:23: RX <- CONNECT_ACK pd = 8
callref = 0x20FC *Apr 5 11:05:07.079: ISDN Se0:23: CALL_PROGRESS: CALL_CONNECTED call id 0x2D,
bchan -1, dsl 0 *Apr 5 11:05:07.499: Se0:6 LCP: I CONFREQ [Listen] id 28 len 10 *Apr 5
11:05:07.499: Se0:6 LCP: MagicNumber 0x5078A51F (0x05065078A51F) *Apr 5 11:05:07.499: Se0:6
AAA/AUTHOR/FSM: (0): LCP succeeds trivially *Apr 5 11:05:07.499: Se0:6 LCP: O CONFREQ [Listen]
id 2 len 15 *Apr 5 11:05:07.499: Se0:6 LCP: AuthProto CHAP (0x0305C22305) *Apr 5 11:05:07.499:
Se0:6 LCP: MagicNumber 0xE05213AA (0x0506E05213AA) *Apr 5 11:05:07.499: Se0:6 LCP: O CONFACK
[Listen] id 28 len 10 *Apr 5 11:05:07.499: Se0:6 LCP: MagicNumber 0x5078A51F (0x05065078A51F)
*Apr 5 11:05:07.555: Se0:6 LCP: I CONFACK [ACKsent] id 2 len 15 *Apr 5 11:05:07.555: Se0:6 LCP:
AuthProto CHAP (0x0305C22305) *Apr 5 11:05:07.555: Se0:6 LCP: MagicNumber 0xE05213AA
(0x0506E05213AA) *Apr 5 11:05:07.555: Se0:6 LCP: State is Open *Apr 5 11:05:07.555: Se0:6 PPP:
Phase is AUTHENTICATING, by this end *Apr 5 11:05:07.555: Se0:6 CHAP: O CHALLENGE id 2 len 32
from "maui-nas-01" *Apr 5 11:05:07.631: Se0:6 CHAP: I RESPONSE id 2 len 30 from "isdn_user" !---
Incoming CHAP response from "isdn_user". *Apr 5 11:05:07.631: AAA: parse name=Serial0:6 idb
type=12 tty=-1 *Apr 5 11:05:07.631: AAA: name=Serial0:6 flags=0x51 type=1 shelf=0 slot=0
```

```
adapter=0 port=0 channel=6 *Apr 5 11:05:07.631: AAA: parse name= idb type=-1 tty=-1 *Apr 5
11:05:07.631: AAA/MEMORY: create_user (0x619CEE28) user='isdn_user' ruser='' port='Serial0:6'
rem_addr='isdn/81560' authen_type=CHAP service=PPP priv=1 *Apr 5 11:05:07.631: AAA/AUTHEN/START
(2973699846): port='Serial0:6' list='' action=LOGIN service=PPP *Apr 5 11:05:07.631:
AAA/AUTHEN/START (2973699846): using "default" list *Apr 5 11:05:07.631: AAA/AUTHEN
(2973699846): status = UNKNOWN *Apr 5 11:05:07.631: AAA/AUTHEN/START (2973699846): Method=radius
(radius) !--- AAA authentication method is RADIUS. *Apr 5 11:05:07.631: RADIUS: ustruct
sharecount=1 *Apr 5 11:05:07.631: RADIUS: Initial Transmit Serial0:6 id 13 172.22.53.201:1645,
Access-Request, len 87 !--- Access-Request from the NAS to the AAA server. !--- Note the IP
address in the Access-Request matches the IP address !--- configured using the command: !---
radius-server host 172.22.53.201 key cisco *Apr 5 11:05:07.631: Attribute 4 6 AC16358D *Apr 5
11:05:07.631: Attribute 5 6 00004E26 *Apr 5 11:05:07.631: Attribute 61 6 00000002 *Apr 5
11:05:07.631: Attribute 1 11 6973646E *Apr 5 11:05:07.631: Attribute 30 7 38313536 *Apr 5
11:05:07.631: Attribute 3 19 0297959E *Apr 5 11:05:07.631: Attribute 6 6 00000002 *Apr 5
11:05:07.631: Attribute 7 6 00000001 *Apr 5 11:05:07.635: RADIUS: Received from id 13
172.22.53.201:1645, Access-Accept, len 32 *Apr 5 11:05:07.635: Attribute 6 6 00000002 *Apr 5
11:05:07.635: Attribute 7 6 00000001
```

Os pares de valor de atributo (AVP) da necessidade do **comando debug radius** de ser descodificado para compreender melhor a transação entre o NAS e o servidor Radius.

Nota: Até à data de 12.2(11)T que a saída de debuga o raio é descodificado já e daqui não exige o uso do Output Interpreter descodificar a saída. Refira o RAIO do documento debugam realces para mais informação.

A ferramenta Output Interpreter permite que você receba uma análise da saída do **raio debugar**.

A seguinte saída nos itálicos é o resultado obtido da ferramenta Output Interpreter:

```
Access-Request 172.22.53.201:1645 id 13
Attribute Type 4:  NAS-IP-Address is 172.22.53.141
Attribute Type 5:  NAS-Port is 20006
Attribute Type 61: NAS-Port-Type is ISDN-Synchronous
Attribute Type 1:  User-Name is isdn
Attribute Type 30: Called-Station-ID(DNIS) is 8156
Attribute Type 3:  CHAP-Password is (encoded)
Attribute Type 6:  Service-Type is Framed
Attribute Type 7:  Framed-Protocol is PPP
Access-Accept 172.22.53.201:1645 id 13
Attribute Type 6:  Service-Type is Framed
Attribute Type 7:  Framed-Protocol is PPP
```

Do resultado do debug descodificado pela ferramenta, verifique que o **tipo 6 do atributo: O tipo de serviço são quadro e o tipo 7 do atributo: O Framed-Protocol** é **PPP**. Se você observa que os atributos 6 ou 7 não são como mostrado, corrija o perfil de usuário no servidor Radius (refira a seção de configuração). Igualmente observe que que **debuga o raio** mostra uma **aceitação de acesso**, que indique que o servidor Radius autenticou com sucesso o usuário. Se a saída mostra uma **Rejeição de acesso**, a seguir o usuário não esteve autenticado e você deve verificar a configuração do nome de usuário e senha no servidor Radius. Um outro atributo a verificar é o **tipo 4 do atributo: Nas-ip-address**. Verifique que o valor indicado pela ferramenta Output Interpreter combina o endereço IP de Um ou Mais Servidores Cisco ICM NT NAS configurado no servidor Radius.

Nota: Devido às restrições de IOS Cisco e às diferenças no resultado do debug com versões diferentes, alguns atributos podem ser truncados (por exemplo, **username, Chamar-estação-ID(DNIS)**).

```
*Apr  5 11:05:07.635: AAA/AUTHEN (2973699846): status = PASS
!--- Authentication is successful *Apr 5 11:05:07.635: Se0:6 AAA/AUTHOR/LCP: Authorize LCP *Apr
5 11:05:07.635: Se0:6 AAA/AUTHOR/LCP (2783657211): Port='Serial0:6' list='' service=NET *Apr 5
```

```
11:05:07.635: AAA/AUTHOR/LCP: Se0:6 (2783657211) user='isdn_user' *Apr 5 11:05:07.635: Se0:6
AAA/AUTHOR/LCP (2783657211): send AV service=ppp *Apr 5 11:05:07.635: Se0:6 AAA/AUTHOR/LCP
(2783657211): send AV protocol=lcp *Apr 5 11:05:07.635: Se0:6 AAA/AUTHOR/LCP (2783657211): found
list "default" *Apr 5 11:05:07.635: Se0:6 AAA/AUTHOR/LCP (2783657211): Method=radius (radius)
*Apr 5 11:05:07.635: Se0:6 AAA/AUTHOR (2783657211): Post authorization status = PASS_REPL *Apr 5
11:05:07.639: Se0:6 AAA/AUTHOR/LCP: Processing AV service=ppp *Apr 5 11:05:07.639: Se0:6 CHAP: O
SUCCESS id 2 len 4 *Apr 5 11:05:07.639: Se0:6 PPP: Phase is UP *Apr 5 11:05:07.639: Se0:6
AAA/AUTHOR/FSM: (0): Can we start IPCP? *Apr 5 11:05:07.639: Se0:6 AAA/AUTHOR/FSM (3184893369):
Port='Serial0:6' list='' service=NET *Apr 5 11:05:07.639: AAA/AUTHOR/FSM: Se0:6 (3184893369)
user='isdn_user' *Apr 5 11:05:07.639: Se0:6 AAA/AUTHOR/FSM (3184893369): send AV service=ppp
*Apr 5 11:05:07.639: Se0:6 AAA/AUTHOR/FSM (3184893369): send AV protocol=ip *Apr 5 11:05:07.639:
Se0:6 AAA/AUTHOR/FSM (3184893369): found list "default" *Apr 5 11:05:07.639: Se0:6
AAA/AUTHOR/FSM (3184893369): Method=radius (radius) *Apr 5 11:05:07.639: Se0:6 AAA/AUTHOR
(3184893369): Post authorization status = PASS_REPL *Apr 5 11:05:07.639: Se0:6 AAA/AUTHOR/FSM:
We can start IPCP *Apr 5 11:05:07.639: Se0:6 IPCP: O CONFREQ [Not negotiated] id 2 len 10 *Apr 5
11:05:07.639: Se0:6 IPCP: Address 172.22.53.141 (0x0306AC16358D) *Apr 5 11:05:07.675: Se0:6
IPCP: I CONFREQ [REQsent] id 13 len 10 *Apr 5 11:05:07.675: Se0:6 IPCP: Address 0.0.0.0
(0x030600000000) *Apr 5 11:05:07.675: Se0:6 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want
0.0.0.0 *Apr 5 11:05:07.675: Se0:6 AAA/AUTHOR/IPCP: Processing AV service=ppp *Apr 5
11:05:07.675: Se0:6 AAA/AUTHOR/IPCP: Authorization succeeded *Apr 5 11:05:07.675: Se0:6
AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 0.0.0.0 *Apr 5 11:05:07.675: Se0:6 IPCP:
Pool returned 172.22.53.142 !--- IP address for the peer obtained from the pool *Apr 5
11:05:07.675: Se0:6 IPCP: O CONFNAK [REQsent] id 13 len 10 *Apr 5 11:05:07.675: Se0:6 IPCP:
Address 172.22.53.142 (0x0306AC16358E) *Apr 5 11:05:07.699: Se0:6 IPCP: I CONFACK [REQsent] id 2
len 10 *Apr 5 11:05:07.699: Se0:6 IPCP: Address 172.22.53.141 (0x0306AC16358D) *Apr 5
11:05:07.707: Se0:6 IPCP: I CONFREQ [ACKrcvd] id 14 len 10 *Apr 5 11:05:07.707: Se0:6 IPCP:
Address 172.22.53.142 (0x0306AC16358E) *Apr 5 11:05:07.707: Se0:6 AAA/AUTHOR/IPCP: Start. Her
address 172.22.53.142, we want 172.22.53.142 *Apr 5 11:05:07.707: Se0:6 AAA/AUTHOR/IPCP
(3828612481): Port='Serial0:6' list='' service=NET *Apr 5 11:05:07.707: AAA/AUTHOR/IPCP: Se0:6
(3828612481) user='isdn_user' *Apr 5 11:05:07.707: Se0:6 AAA/AUTHOR/IPCP (3828612481): send AV
service=ppp *Apr 5 11:05:07.707: Se0:6 AAA/AUTHOR/IPCP (3828612481): send AV protocol=ip *Apr 5
11:05:07.707: Se0:6 AAA/AUTHOR/IPCP (3828612481): send AV addr*172.22.53.142 *Apr 5
11:05:07.707: Se0:6 AAA/AUTHOR/IPCP (3828612481): found list "default" *Apr 5 11:05:07.707:
Se0:6 AAA/AUTHOR/IPCP (3828612481): Method=radius (radius) *Apr 5 11:05:07.707: Se0:6 AAA/AUTHOR
(3828612481): Post authorization status = PASS_REPL *Apr 5 11:05:07.707: Se0:6 AAA/AUTHOR/IPCP:
Reject 172.22.53.142, using 172.22.53.142 *Apr 5 11:05:07.707: Se0:6 AAA/AUTHOR/IPCP: Processing
AV service=ppp *Apr 5 11:05:07.707: Se0:6 AAA/AUTHOR/IPCP: Processing AV addr*172.22.53.142 *Apr
5 11:05:07.707: Se0:6 AAA/AUTHOR/IPCP: Authorization succeeded *Apr 5 11:05:07.707: Se0:6
AAA/AUTHOR/IPCP: Done. Her address 172.22.53.142, we want 172.22.53.142 *Apr 5 11:05:07.707:
Se0:6 IPCP: O CONFACK [ACKrcvd] id 14 len 10 *Apr 5 11:05:07.707: Se0:6 IPCP: Address
172.22.53.142 (0x0306AC16358E) *Apr 5 11:05:07.707: Se0:6 IPCP: State is Open *Apr 5
11:05:07.711: Di1 IPCP: Install route to 172.22.53.142 !--- IPCP state is open. A route to the
remote peer is installed *Apr 5 11:05:08.639: %LINEPROTO-5-UPDOWN: Line protocol on Interface
Serial0:6, changed state to up *Apr 5 11:05:13.043: %ISDN-6-CONNECT: Interface Serial0:6 is now
connected to isdn_user maui-nas-01#
```

Isto termina a negociação para o cliente ISDN. A saída mostrada abaixo mostra à negociação para uma chamada assíncrona (por exemplo, um cliente do Windows)

```
maui-nas-01#
*Apr  5 11:05:53.527: ISDN Se0:23: RX <- SETUP pd = 8 callref = 0x21C5 !--- Incoming Setup
message for Async Call. *Apr 5 11:05:53.527: Bearer Capability i = 0x9090A2 *Apr 5 11:05:53.527:
Channel ID i = 0xA18388 *Apr 5 11:05:53.527: Progress Ind i = 0x8183 - Origination address is
non-ISDN *Apr 5 11:05:53.527: Called Party Number i = 0xA1, '81560' *Apr 5 11:05:53.531: ISDN
Se0:23: TX -> CALL_PROC pd = 8 callref = 0xA1C5 *Apr 5 11:05:53.531: Channel ID i = 0xA98388
*Apr 5 11:05:53.531: ISDN Se0:23: TX -> ALERTING pd = 8 callref = 0xA1C5 *Apr 5 11:05:53.667:
ISDN Se0:23: TX -> CONNECT pd = 8 callref = 0xA1C5 *Apr 5 11:05:53.683: ISDN Se0:23: RX <-
CONNECT_ACK pd = 8 callref = 0x21C5 *Apr 5 11:05:53.687: ISDN Se0:23: CALL_PROGRESS:
CALL_CONNECTED call id 0x2E, bchan -1, dsl 0 *Apr 5 11:06:10.815: TTY5: DSR came up *Apr 5
11:06:10.815: tty5: Modem: IDLE->(unknown) *Apr 5 11:06:10.815: TTY5: EXEC creation *Apr 5
11:06:10.815: AAA: parse name=tty5 idb type=10 tty=5 *Apr 5 11:06:10.815: AAA: name=tty5
flags=0x11 type=4 shelf=0 slot=0 adapter=0 port=5 channel=0 *Apr 5 11:06:10.815: AAA: parse
name=Serial0:7 idb type=12 tty=-1 *Apr 5 11:06:10.815: AAA: name=Serial0:7 flags=0x51 type=1
shelf=0 slot=0 adapter=0 port=0 channel=7 *Apr 5 11:06:10.815: AAA/MEMORY: create_user
```

(0x614D4DBC) user='' ruser='' port='tty5' rem_addr='async/81560' authen_type=ASCII service=LOGIN priv=1 *Apr 5 11:06:10.815: AAA/AUTHEN/START (2673527044): port='tty5' list='' action=LOGIN service=LOGIN *Apr 5 11:06:10.815: AAA/AUTHEN/START (2673527044): using "default" list *Apr 5 11:06:10.815: AAA/AUTHEN/START (2673527044): Method=radius (radius) *Apr 5 11:06:10.815: AAA/AUTHEN (2673527044): status = GETUSER *Apr 5 11:06:10.815: TTY5: set timer type 10, 30 seconds *Apr 5 11:06:13.475: TTY5: Autoselect(2) sample 7E *Apr 5 11:06:13.475: TTY5: Autoselect(2) sample 7EFF *Apr 5 11:06:13.475: TTY5: Autoselect(2) sample 7EFF7D *Apr 5 11:06:13.475: TTY5: Autoselect(2) sample 7EFF7D23 *Apr 5 11:06:13.475: **TTY5 Autoselect cmd: ppp negotiate** *!--- the router recongnizes the ppp packets and launches ppp.* *Apr 5 11:06:13.475: AAA/AUTHEN/ABORT: (2673527044) because Autoselected. *Apr 5 11:06:13.475: AAA/MEMORY: free_user (0x614D4DBC) user='' ruser='' port='tty5' rem_addr='async/81560' authen_type=ASCII service=LOGIN priv=1 *Apr 5 11:06:13.479: TTY5: EXEC creation *Apr 5 11:06:13.479: TTY5: create timer type 1, 600 seconds *Apr 5 11:06:13.607: TTY5: destroy timer type 1 (OK) *Apr 5 11:06:13.607: TTY5: destroy timer type 0 *Apr 5 11:06:15.607: %LINK-3-UPDOWN: Interface Async5, changed state to up *Apr 5 11:06:15.607: As5 PPP: Treating connection as a dedicated line *Apr 5 11:06:15.607: As5 **PPP: Phase is ESTABLISHING, Active Open** *!--- PPP negotiation begins.* *Apr 5 11:06:15.607: As5 AAA/AUTHOR/FSM: (0): LCP succeeds trivially *Apr 5 11:06:15.607: As5 LCP: O CONFREQ [Closed] id 1 len 25 *Apr 5 11:06:15.607: As5 LCP: ACCM 0x000A0000 (0x0206000A0000) *Apr 5 11:06:15.607: As5 LCP: AuthProto CHAP (0x0305C22305) *Apr 5 11:06:15.607: As5 LCP: MagicNumber 0xE0531DB8 (0x0506E0531DB8) *Apr 5 11:06:15.607: As5 LCP: PFC (0x0702) *Apr 5 11:06:15.607: As5 LCP: ACFC (0x0802) *Apr 5 11:06:16.487: As5 LCP: I CONFREQ [REQsent] id 3 len 23 *Apr 5 11:06:16.487: As5 LCP: ACCM 0x000A0000 (0x0206000A0000) *Apr 5 11:06:16.487: As5 LCP: MagicNumber 0x65FFA5C7 (0x050665FFA5C7) *Apr 5 11:06:16.487: As5 LCP: PFC (0x0702) *Apr 5 11:06:16.487: As5 LCP: ACFC (0x0802) *Apr 5 11:06:16.487: As5 LCP: Callback 6 (0x0D0306) *Apr 5 11:06:16.487: Unthrottle 5 *Apr 5 11:06:16.487: As5 LCP: O CONFREJ [REQsent] id 3 len 7 *Apr 5 11:06:16.487: As5 LCP: Callback 6 (0x0D0306) *Apr 5 11:06:17.607: As5 LCP: TIMEout: State REQsent *Apr 5 11:06:17.607: As5 LCP: O CONFREQ [REQsent] id 2 len 25 *Apr 5 11:06:17.607: As5 LCP: ACCM 0x000A0000 (0x0206000A0000) *Apr 5 11:06:17.607: As5 LCP: AuthProto CHAP (0x0305C22305) *Apr 5 11:06:17.607: As5 LCP: MagicNumber 0xE0531DB8 (0x0506E0531DB8) *Apr 5 11:06:17.607: As5 LCP: PFC (0x0702) *Apr 5 11:06:17.607: As5 LCP: ACFC (0x0802) *Apr 5 11:06:17.735: As5 LCP: I CONFACK [REQsent] id 2 len 25 *Apr 5 11:06:17.735: As5 LCP: ACCM 0x000A0000 (0x0206000A0000) *Apr 5 11:06:17.735: As5 LCP: AuthProto CHAP (0x0305C22305) *Apr 5 11:06:17.735: As5 LCP: MagicNumber 0xE0531DB8 (0x0506E0531DB8) *Apr 5 11:06:17.735: As5 LCP: PFC (0x0702) *Apr 5 11:06:17.735: As5 LCP: ACFC (0x0802) *Apr 5 11:06:19.479: As5 LCP: I CONFREQ [ACKrcvd] id 4 len 23 *Apr 5 11:06:19.479: As5 LCP: ACCM 0x000A0000 (0x0206000A0000) *Apr 5 11:06:19.479: As5 LCP: MagicNumber 0x65FFA5C7 (0x050665FFA5C7) *Apr 5 11:06:19.479: As5 LCP: PFC (0x0702) *Apr 5 11:06:19.479: As5 LCP: ACFC (0x0802) *Apr 5 11:06:19.479: As5 LCP: Callback 6 (0x0D0306) *Apr 5 11:06:19.479: As5 LCP: O CONFREJ [ACKrcvd] id 4 len 7 *Apr 5 11:06:19.479: As5 LCP: Callback 6 (0x0D0306) *Apr 5 11:06:19.607: As5 LCP: TIMEout: State ACKrcvd *Apr 5 11:06:19.607: As5 LCP: O CONFREQ [ACKrcvd] id 3 len 25 *Apr 5 11:06:19.607: As5 LCP: ACCM 0x000A0000 (0x0206000A0000) *Apr 5 11:06:19.607: As5 LCP: AuthProto CHAP (0x0305C22305) *Apr 5 11:06:19.607: As5 LCP: MagicNumber 0xE0531DB8 (0x0506E0531DB8) *Apr 5 11:06:19.607: As5 LCP: PFC (0x0702) *Apr 5 11:06:19.607: As5 LCP: ACFC (0x0802) *Apr 5 11:06:19.607: As5 LCP: I CONFREQ [REQsent] id 5 len 20 *Apr 5 11:06:19.607: As5 LCP: ACCM 0x000A0000 (0x0206000A0000) *Apr 5 11:06:19.607: As5 LCP: MagicNumber 0x65FFA5C7 (0x050665FFA5C7) *Apr 5 11:06:19.607: As5 LCP: PFC (0x0702) *Apr 5 11:06:19.607: As5 LCP: ACFC (0x0802) *Apr 5 11:06:19.607: As5 LCP: O CONFACK [REQsent] id 5 len 20 *Apr 5 11:06:19.607: As5 LCP: ACCM 0x000A0000 (0x0206000A0000) *Apr 5 11:06:19.607: As5 LCP: MagicNumber 0x65FFA5C7 (0x050665FFA5C7) *Apr 5 11:06:19.607: As5 LCP: PFC (0x0702) *Apr 5 11:06:19.607: As5 LCP: ACFC (0x0802) *Apr 5 11:06:19.719: As5 LCP: I CONFACK [ACKsent] id 3 len 25 *Apr 5 11:06:19.719: As5 LCP: ACCM 0x000A0000 (0x0206000A0000) *Apr 5 11:06:19.719: As5 LCP: AuthProto CHAP (0x0305C22305) *Apr 5 11:06:19.719: As5 LCP: MagicNumber 0xE0531DB8 (0x0506E0531DB8) *Apr 5 11:06:19.719: As5 LCP: PFC (0x0702) *Apr 5 11:06:19.719: As5 LCP: ACFC (0x0802) *Apr 5 11:06:19.719: As5 LCP: State is Open *Apr 5 11:06:19.719: As5 PPP: Phase is AUTHENTICATING, by this end *Apr 5 11:06:19.719: As5 CHAP: O CHALLENGE id 1 len 32 from "maui-nas-01" *Apr 5 11:06:19.863: As5 **CHAP: I RESPONSE id 1 len 33 from "async_client"** *!--- Incoming CHAP response from "async_client".* *Apr 5 11:06:19.863: AAA: parse name=Async5 idb type=10 tty=5 *Apr 5 11:06:19.863: AAA: name=Async5 flags=0x11 type=4 shelf=0 slot=0 adapter=0 port=5 channel=0 *Apr 5 11:06:19.863: AAA: parse name=Serial0:7 idb type=12 tty=-1 *Apr 5 11:06:19.863: AAA: name=Serial0:7 flags=0x51 type=1 shelf=0 slot=0 adapter=0 port=0 channel=7 *Apr 5 11:06:19.863: AAA/MEMORY: create_user (0x6195AE40) user='async_client' ruser='' port='Async5' rem_addr='async/81560' authen_type=CHAP service=PPP priv=1 *Apr 5 11:06:19.863: AAA/AUTHEN/START (2673347869): port='Async5' list='' action=LOGIN service=PPP *Apr 5 11:06:19.863: AAA/AUTHEN/START (2673347869): using "default" list *Apr 5 11:06:19.863: AAA/AUTHEN (2673347869): status = UNKNOWN *Apr 5 11:06:19.863: AAA/AUTHEN/START (2673347869): Method=radius

```
(radius) *Apr 5 11:06:19.863: RADIUS: ustruct sharecount=1 *Apr 5 11:06:19.867: RADIUS: Initial
Transmit Async5 id 14 172.22.53.201:1645, Access-Request, len 90 *Apr 5 11:06:19.867: Attribute
4 6 AC16358D *Apr 5 11:06:19.867: Attribute 5 6 00000005 *Apr 5 11:06:19.867: Attribute 61 6
00000000 *Apr 5 11:06:19.867: Attribute 1 14 6173796E *Apr 5 11:06:19.867: Attribute 30 7
38313536 *Apr 5 11:06:19.867: Attribute 3 19 01B8292F *Apr 5 11:06:19.867: Attribute 6 6
00000002 *Apr 5 11:06:19.867: Attribute 7 6 00000001 *Apr 5 11:06:19.867: RADIUS: Received from
id 14 172.22.53.201:1645, Access-Accept, len 32 *Apr 5 11:06:19.867: Attribute 6 6 00000002 *Apr
5 11:06:19.871: Attribute 7 6 00000001
```

Os AVP do comando debug radius precisam de ser descodificados para compreender melhor a transação entre o NAS e o servidor Radius.

Nota: Até à data de 12.2(11)T que a saída de debuga o raio é descodificado já e daqui não exige o uso do Output Interpreter descodificar a saída. Refira o RAIO do documento debugam realces para mais informação

A ferramenta Output Interpreter permite que você receba uma análise da saída do raio debugar.

A seguinte saída nos itálicos é o resultado obtido da ferramenta Output Interpreter:

```
Access-Request 172.22.53.201:1645 id 14
Attribute Type 4:  NAS-IP-Address is 172.22.53.141
Attribute Type 5:  NAS-Port is 5
Attribute Type 61: NAS-Port-Type is Asynchronous
Attribute Type 1:  User-Name is asyn
Attribute Type 30: Called-Station-ID(DNIS) is 8156
Attribute Type 3:  CHAP-Password is (encoded)
Attribute Type 6:  Service-Type is Framed
Attribute Type 7:  Framed-Protocol is PPP
         Access-Accept 172.22.53.201:1645 id 14
Attribute Type 6:  Service-Type is Framed
Attribute Type 7:  Framed-Protocol is PPP
```

Do resultado do debug descodificado pela ferramenta, verifique que o **tipo 6 do atributo: O tipo de serviço são quadro e o tipo 7 do atributo: O Framed-Protocol** é **PPP**. Se você observa que os atributos 6 ou 7 não são como mostrado, corrija o perfil de usuário no servidor Radius (refira a seção de configuração). Igualmente observe que que **debuga o raio** mostra uma **aceitação de acesso**, que indique que o servidor Radius autenticou com sucesso o usuário. Se a saída mostra uma **Rejeição de acesso**, a seguir o usuário não esteve autenticado e você deve verificar a configuração do nome de usuário e senha no servidor Radius. Um outro atributo a verificar é o **tipo 4 do atributo: Nas-ip-address**. Verifique que o valor indicado pela ferramenta Output Interpreter combina o endereço IP de Um ou Mais Servidores Cisco ICM NT NAS configurado no servidor Radius.

Nota: Devido às restrições de IOS Cisco e às diferenças no resultado do debug com versões diferentes, alguns atributos podem ser truncados (por exemplo, **username, Chamar-estação-ID(DNIS))**.

```
*Apr  5 11:06:19.871: AAA/AUTHEN (2673347869): status = PASS
*Apr  5 11:06:19.871: As5 AAA/AUTHOR/LCP: Authorize LCP
*Apr  5 11:06:19.871: As5 AAA/AUTHOR/LCP (3232903941): Port='Async5' list=''
service=NET
*Apr  5 11:06:19.871: AAA/AUTHOR/LCP: As5 (3232903941) user='async_client'
*Apr  5 11:06:19.871: As5 AAA/AUTHOR/LCP (3232903941): send AV service=ppp
*Apr  5 11:06:19.871: As5 AAA/AUTHOR/LCP (3232903941): send AV protocol=lcp
*Apr  5 11:06:19.871: As5 AAA/AUTHOR/LCP (3232903941): found list "default"
*Apr  5 11:06:19.871: As5 AAA/AUTHOR/LCP (3232903941): Method=radius (radius)
*Apr  5 11:06:19.871: As5 AAA/AUTHOR (3232903941): Post authorization status
= PASS_REPL
*Apr  5 11:06:19.871: As5 AAA/AUTHOR/LCP: Processing AV service=ppp
```

```
*Apr  5 11:06:19.871: As5 CHAP: O SUCCESS id 1 len 4
*Apr  5 11:06:19.871: As5 PPP: Phase is UP
*Apr  5 11:06:19.871: As5 AAA/AUTHOR/FSM: (0): Can we start IPCP?
*Apr  5 11:06:19.871: As5 AAA/AUTHOR/FSM (1882093345): Port='Async5' list=''
service=NET
*Apr  5 11:06:19.871: AAA/AUTHOR/FSM: As5 (1882093345) user='async_client'
*Apr  5 11:06:19.871: As5 AAA/AUTHOR/FSM (1882093345): send AV service=ppp
*Apr  5 11:06:19.871: As5 AAA/AUTHOR/FSM (1882093345): send AV protocol=ip
*Apr  5 11:06:19.871: As5 AAA/AUTHOR/FSM (1882093345): found list "default"
*Apr  5 11:06:19.871: As5 AAA/AUTHOR/FSM (1882093345): Method=radius (radius)
*Apr  5 11:06:19.871: As5 AAA/AUTHOR (1882093345): Post authorization status
= PASS_REPL
*Apr  5 11:06:19.871: As5 AAA/AUTHOR/FSM: We can start IPCP
*Apr  5 11:06:19.875: As5 IPCP: O CONFREQ [Closed] id 1 len 10
*Apr  5 11:06:19.875: As5 IPCP:    Address 172.22.53.141 (0x0306AC16358D)
*Apr  5 11:06:19.991: As5 IPCP: I CONFREQ [REQsent] id 1 len 34
*Apr  5 11:06:19.991: As5 IPCP:    Address 0.0.0.0 (0x030600000000)
*Apr  5 11:06:19.991: As5 IPCP:    PrimaryDNS 0.0.0.0 (0x810600000000)
*Apr  5 11:06:19.991: As5 IPCP:    PrimaryWINS 0.0.0.0 (0x820600000000)
*Apr  5 11:06:19.991: As5 IPCP:    SecondaryDNS 0.0.0.0 (0x830600000000)
*Apr  5 11:06:19.991: As5 IPCP:    SecondaryWINS 0.0.0.0 (0x840600000000)
*Apr  5 11:06:19.991: As5 AAA/AUTHOR/IPCP: Start.  Her address 0.0.0.0,
```

we want 172.22.53.148 *!--- The address for the peer obtained from the pool.* *Apr 5 11:06:19.991: As5 AAA/AUTHOR/IPCP: Processing AV service=ppp *Apr 5 11:06:19.991: As5 AAA/AUTHOR/IPCP: Authorization succeeded *Apr 5 11:06:19.991: As5 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 172.22.53.148 *Apr 5 11:06:19.991: As5 IPCP: O CONFREJ [REQsent] id 1 len 22 *Apr 5 11:06:19.991: As5 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000) *Apr 5 11:06:19.995: As5 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000) *Apr 5 11:06:19.995: As5 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000) *Apr 5 11:06:20.007: As5 IPCP: I CONFACK [REQsent] id 1 len 10 *Apr 5 11:06:20.007: As5 IPCP: Address 172.22.53.141 (0x0306AC16358D) *Apr 5 11:06:20.119: As5 IPCP: I CONFREQ [ACKrcvd] id 2 len 16 *Apr 5 11:06:20.119: As5 IPCP: Address 0.0.0.0 (0x030600000000) *Apr 5 11:06:20.119: As5 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000) *Apr 5 11:06:20.119: As5 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 172.22.53.148 *Apr 5 11:06:20.119: As5 AAA/AUTHOR/IPCP: Processing AV service=ppp *Apr 5 11:06:20.119: As5 AAA/AUTHOR/IPCP: Authorization succeeded *Apr 5 11:06:20.119: As5 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 172.22.53.148 *Apr 5 11:06:20.119: As5 IPCP: O CONFNAK [ACKrcvd] id 2 len 16 *Apr 5 11:06:20.119: As5 IPCP: Address 172.22.53.148 (0x0306AC163594) *Apr 5 11:06:20.119: As5 IPCP: PrimaryDNS 172.22.53.210 (0x8106AC1635D2) *Apr 5 11:06:20.231: As5 IPCP: I CONFREQ [ACKrcvd] id 3 len 16 *Apr 5 11:06:20.231: As5 IPCP: Address 172.22.53.148 (0x0306AC163594) *Apr 5 11:06:20.231: As5 IPCP: PrimaryDNS 172.22.53.210 (0x8106AC1635D2) *Apr 5 11:06:20.231: As5 AAA/AUTHOR/IPCP: Start. Her address 172.22.53.148, we want 172.22.53.148 *Apr 5 11:06:20.231: As5 AAA/AUTHOR/IPCP (3727543204): Port='Async5' list='' service=NET *Apr 5 11:06:20.231: AAA/AUTHOR/IPCP: As5 (3727543204) user='async_client' *Apr 5 11:06:20.231: As5 AAA/AUTHOR/IPCP (3727543204): send AV service=ppp *Apr 5 11:06:20.231: As5 AAA/AUTHOR/IPCP (3727543204): send AV protocol=ip *Apr 5 11:06:20.231: As5 AAA/AUTHOR/IPCP (3727543204): send AV addr*172.22.53.148 *Apr 5 11:06:20.231: As5 AAA/AUTHOR/IPCP (3727543204): found list "default" *Apr 5 11:06:20.231: As5 AAA/AUTHOR/IPCP (3727543204): Method=radius (radius) *Apr 5 11:06:20.235: As5 AAA/AUTHOR (3727543204): Post authorization status = PASS_REPL *Apr 5 11:06:20.235: As5 AAA/AUTHOR/IPCP: Reject 172.22.53.148, using 172.22.53.148 *Apr 5 11:06:20.235: As5 AAA/AUTHOR/IPCP: Processing AV service=ppp *Apr 5 11:06:20.235: As5 AAA/AUTHOR/IPCP: Processing AV addr*172.22.53.148 *Apr 5 11:06:20.235: As5 AAA/AUTHOR/IPCP: Authorization succeeded *Apr 5 11:06:20.235: As5 AAA/AUTHOR/IPCP: Done. Her address 172.22.53.148, we want 172.22.53.148 *Apr 5 11:06:20.235: As5 IPCP: O CONFACK [ACKrcvd] id 3 len 16 *Apr 5 11:06:20.235: As5 IPCP: Address 172.22.53.148 (0x0306AC163594) *Apr 5 11:06:20.235: As5 IPCP: PrimaryDNS 172.22.53.210 (0x8106AC1635D2) *Apr 5 11:06:20.235: As5 IPCP: State is Open *Apr 5 11:06:20.235: **As5 IPCP: Install route to 172.22.53.148** *!--- Route to remote peer is installed.* *Apr 5 11:06:20.871: %LINEPROTO-5-UPDOWN: Line protocol on Interface Async5, changed state to up

Informações Relacionadas

- Suporte Técnico e Documentação - Cisco Systems