

# Configurando o callback de PPP com TACACS+

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## Introdução

Este documento mostra exemplos de configuração de um roteador e de um servidor AAA para fazer a rechamada do Point-to-Point Protocol (PPP) com TACACS+. Dois exemplos são incluídos que uso que o número de chamada de volta especificou pelo servidor AAA ou pelo cliente do Windows 2000.

- Execute o exame inicial com a autenticação local e a rechamada (remova o **comando aaa new-model**). Se a rechamada não trabalha com autenticação local, não trabalha com TACACS+. Refira [configurar a rechamada MS entre um roteador e um PC Windows](#) para um exemplo de como usar a autenticação local.
- Execute uns testes mais adicionais da autenticação de PPP com o TACACS+ sem a rechamada. Se a FALHA na autenticação de usuário e/ou a autorização sem rechamada, authentication e autorização não trabalham com rechamada.
- Uma vez que a autenticação local para a rechamada e a autenticação de PPP com TACACS+ trabalham, adicionar a informação do usuário local no roteador (tal como a série de discagem da rechamada) ao perfil de usuário no server.

**Nota:** O cliente nestes testes é um cliente de Windows 2000 Professional, o DUN, estabelece-se usual para uma conexão PPP, com instalação de rechamada microsoft como “pergunte-me durante discar quando o server oferece.” A rechamada Microsoft é apoiada em Software Release 11.3.2.T e Mais Recente de Cisco IOS®.

# Pré-requisitos

## Requisitos

Não existem requisitos específicos para este documento.

## Componentes Utilizados

As informações neste documento são baseadas nestas versões de software e hardware:

- Cisco IOS Software Release 12.1(7)AA
- Cisco Secure ACS UNIX 2.3(2)
- Cisco Secure ACS for Windows 3.3
- Programa gratuito de monitor de execução e disco TACACS 4.0(3)

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 a sua rede estiver ativa, certifique-se de que entende o impacto potencial de qualquer comando.

## Convenções

Para obter mais informações sobre convenções de documento, consulte as [Convenções de dicas técnicas Cisco](#).

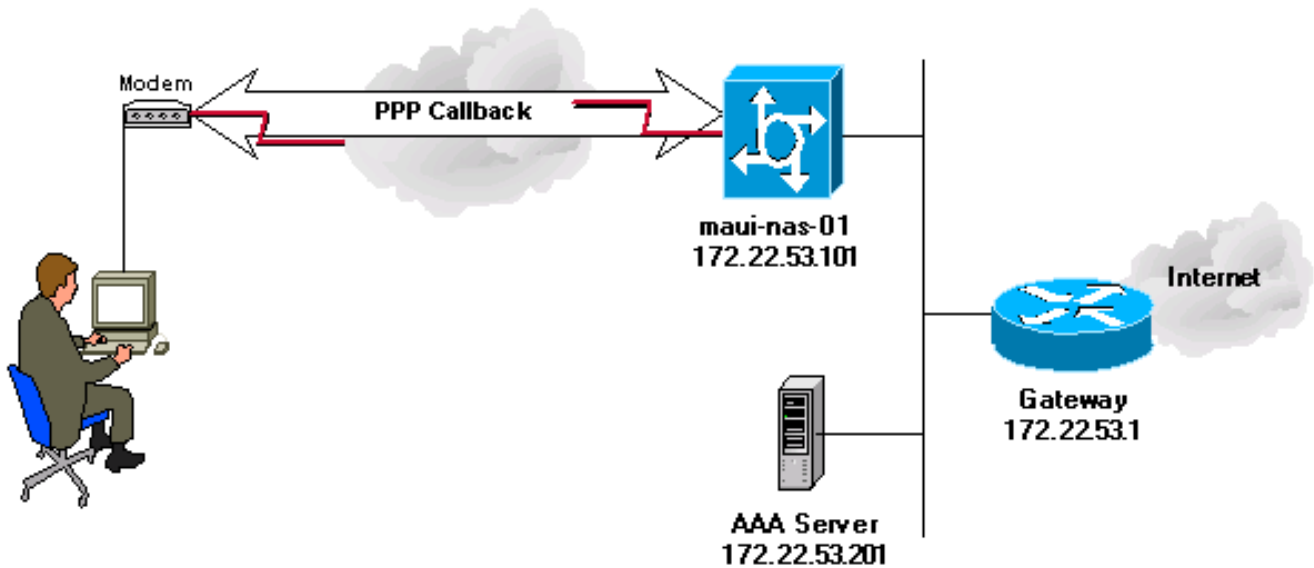
## Configurar

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 configuração de rede mostrada neste diagrama.



## Retorno de chamada de PPP com número especificado pelo servidor

### Configurações do Servidor

Estas são as configurações do servidor AAA para o retorno de chamada de PPP com um número de telefone especificadas pelo servidor AAA.

#### *Instalação do server - Cisco Secure ACS for Windows*

- Para permitir a opção de LCP para o usuário e o grupo, vá à tela da **configuração da interface**, selecionam **TACACS+ (Cisco IOS)**, e asseguram-se de que o IP PPP e as opções **PPP LCP** estejam verificados para ver se há o **usuário** e o **grupo**.
- A rechamada pode ser configurada no grupo ou nas configurações de usuário. **Configurar um grupo para a rechamada**: Na tela da instalação de grupo, sob a rechamada, selecione a opção **para usar ajustes da rechamada do base de dados do Windows (em uma versão mais velha do ACS esta opção é sabida como do "ajustes da rechamada de Microsoft NT uso")**. Verifique então as opções para ver se há **IP PPP** e **PPP LCP**. Selecione a **linha da rechamada** e o tipo **84007** no campo em branco. Para um usuário que seja um membro do grupo, vá à **tela de instalação de usuário** e selecione a **configuração de grupo do uso** sob a rechamada. Clique **Submit + Restart**. **Configurar um usuário individual para a rechamada**: Na tela de instalação de usuário, sob a rechamada, selecione a **rechamada usando estes número** e tipo **84007** no campo em branco. Verifique então as opções para ver se há **IP PPP** e **PPP LCP**. Clique **Submit + Restart**.

#### *Instalação do server - Cisco UNIX seguro*

```
<coachella>/export/home/brownr> ViewProfile -p 9900 -u callback_user
User Profile Information
user = callback_user{
profile_id = 113
profile_cycle = 15
member = ccie_study
```

```

password = chap "*****"
service=ppp {
protocol=ip {
}
protocol=lcp {
set callback-dialstring=84007
}
}
}

```

### *Instalação do server - Freeware TACACS+*

```

user = callback_user {
chap= cleartext "chapuser"
service = ppp protocol = lcp {
callback-dialstring=84007
}
service = ppp protocol = ip {
}
}

```

## [Chamada de retorno PPP com número de usuário especificado](#)

Os exemplos mais cedo neste documento são da chamada em um número predefinido (especificado no servidor AAA). A chamada pode igualmente ser feita em um número especificado por usuário usando o número de chamada de volta e é especificada como o zero no servidor AAA. Faz o roteador solicitar ao usuário um número de chamada. O exame inicial deve ser feito com chamada local especificado. Refira a [rechamada de PPP assíncrono entre um servidor de acesso e um exemplo PC](#) e note que a “sequência de discagem de retorno de chamada” está especificada como citações (“”).

O cliente nestes testes era um cliente de Windows 2000 Professional, estabelece-se usual para uma conexão PPP, com instalação de chamada microsoft como o “atendimento mim para trás nos números abaixo.”

**Nota:** [O diagrama da rede](#) e a [configuração de roteador](#) indicados aplicam-se às configurações de chamada de volta discutidas aqui.

## [Configurações do Servidor](#)

São mostradas aqui as configurações do servidor AAA para o retorno de chamada de PPP com um número de telefone especificadas pelo usuário.

### *Instalação do server - Cisco seguro para Windows*

- Para permitir a opção de LCP para o usuário e o grupo, vá à tela da **configuração da interface**, selecionam **TACACS+ (Cisco IOS)**, e asseguram-se de que o **IP PPP** e as **opções PPP LCP** estejam verificados para ver se há o **usuário** e o **grupo**.
- A chamada pode ser configurada no grupo ou nas configurações de usuário. **Configurar um grupo para a chamada:** Na tela da instalação de grupo, sob a **rechamada**, selecione a opção para o **cliente dialup especifica o número de chamada de volta**. Verifique então as opções para ver se há **IP PPP** e **PPP LCP**. Para um usuário que seja um membro do grupo, vá à **tela de instalação de usuário** e selecione a **configuração de grupo do uso** sob a chamada. Clique **Submit + Restart**. **Configurar um usuário individual para a chamada:** Na tela de instalação de usuário, sob a chamada, selecione a opção para o **cliente dialup**

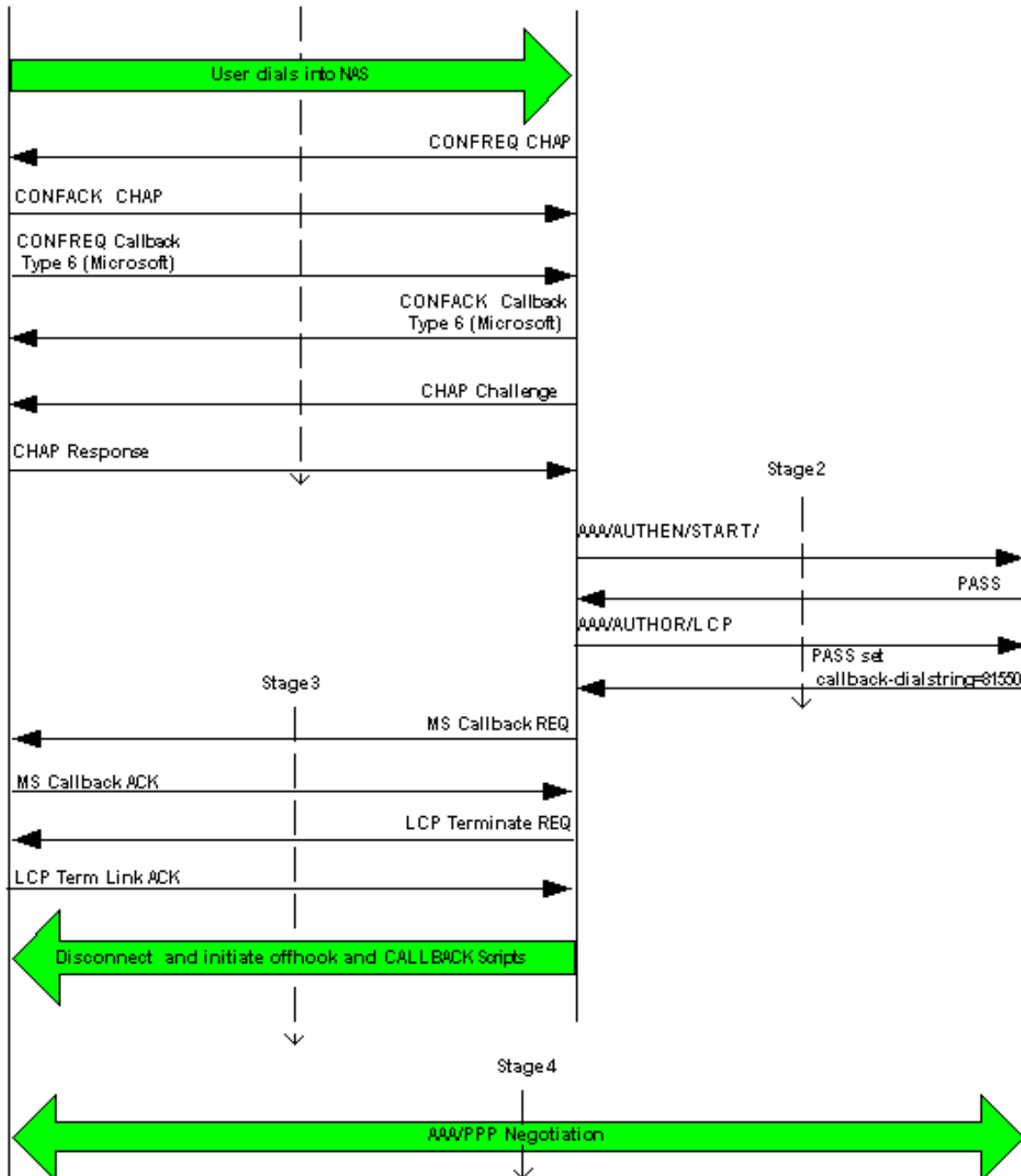
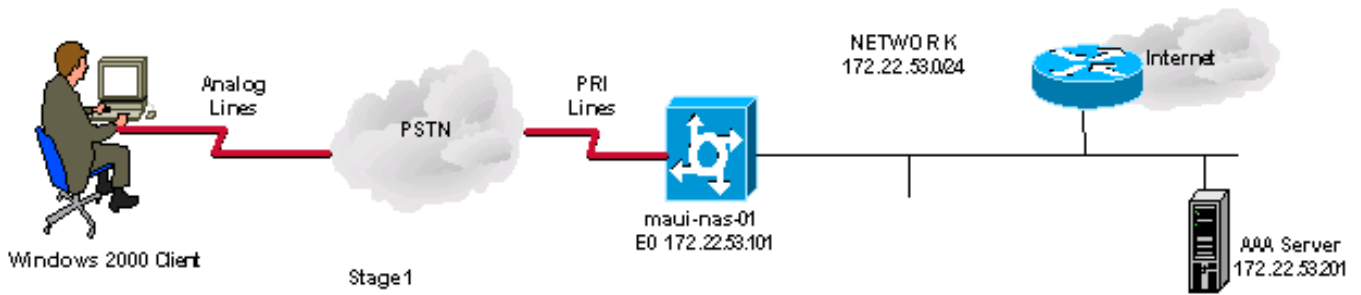
**especifica o número de chamada de volta.** Verifique então as opções para ver se há **IP PPP** e **PPP LCP**. Clique **Submit + Restart**.

### *Instalação do server - Cisco UNIX seguro*

```
<coachella>ViewProfile -p 9900 -u callback_user
User Profile Information
user = callback_user{
profile_id = 113
profile_cycle = 15
member = ccie_study
password = chap "*****"
service=ppp {
protocol=ip {
}
protocol=lcp {
set callback-dialstring=""
}
}
}
```

### *Instalação do server - Freeware TACACS+*

```
user = callback_user {
chap= cleartext "chapuser"
service = ppp protocol = lcp {
callback-dialstring=""
}
service = ppp protocol = ip {
}
}
```



## Configurações do Roteador

### Configuração de NAS

AS5200

```
maui-nas-01#show run Building configuration... Current
configuration : 2882 bytes ! version 12.1 no service pad
service tcp-keepalives-in service timestamps debug
datetime msec localtime show-timezone service timestamps
log datetime msec localtime show-timezone service
```

```

password-encryption ! hostname maui-nas-01 ! logging
buffered 4096 debugging no logging console guaranteed no
logging console !--- Basic AAA configuration using
TACACS+ as the primary method, !--- local if the ERROR
is received during negotiation. !--- Disable AAA
authentication and authorization on console port. aaa
new-model aaa authentication login default group tacacs+
local aaa authentication login NO_AUTHEN none aaa
authentication ppp default if-needed group tacacs+ local
aaa authorization exec default group tacacs+ local aaa
authorization exec NO_AUTHOR none aaa authorization
network default group tacacs+ local enable secret
<snipped> ! username admin password <snipped> spe 1/0
1/23 firmware location feature_card_flash spe 2/0 2/4 !
resource-pool disable ! clock timezone CST -6 clock
summer-time CST recurring modem recovery action none ip
subnet-zero no ip source-route no ip finger no ip
domain-lookup ip name-server 172.22.53.210 ! no ip bootp
server isdn switch-type primary-ni ! !--- Chat scripts
"offhook" and "CALLBACK" !--- used intuitively to go
offhook and callback clients. chat-script CALLBACK ABORT
ERROR ABORT BUSY "" "AT" OK "ATDT \T" TIMEOUT 30 CONNECT
\c chat-script offhook "" "ATH1" OK \c ! controller T1 0
framing esf clock source line primary linecode b8zs pri-
group timeslots 1-24 ! interface Ethernet0 ip address
172.22.53.101 255.255.255.0 no ip route-cache no ip
mroute-cache no cdp enable ! interface Serial0:23 no ip
address encapsulation ppp no ip route-cache isdn switch-
type primary-ni isdn incoming-voice modem isdn bchan-
number-order ascending no cdp enable ! interface Group-
Async1 ip unnumbered Ethernet0 encapsulation ppp no ip
route-cache ip tcp header-compression passive no ip
mroute-cache async mode interactive peer default ip
address pool IP_POOL no cdp enable !--- Allows "group-
async 1" to accept PPP callback requests from clients.
!--- Use Challenge Authentication Protocol (CHAP) for
authentication !--- on incoming calls. ppp callback
accept ppp authentication chap callin group-range 1 48 !
ip local pool IP_POOL 172.22.53.141 172.22.53.148 ip
default-gateway 172.22.53.1 no ip http server ip
classless ip route 0.0.0.0 0.0.0.0 172.22.53.1 ! no cdp
run tacacs-server host 172.22.53.201 key <snipped> !
line con 0 authorization exec NO_AUTHOR login
authentication NO_AUTHEN transport input none line 1 48
!--- Specifies chat scripts used during callback to
clients. script modem-off-hook offhook script callback
CALLBACK modem InOut transport preferred none transport
input all transport output none autoselect during-login
autoselect ppp callback forced-wait 5 line aux 0 line
vty 0 4 ! ntp server 172.22.53.1 end

```

## Verificar

No momento, não há procedimento de verificação disponível para esta configuração.

## Troubleshooting

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

## Comandos para Troubleshooting

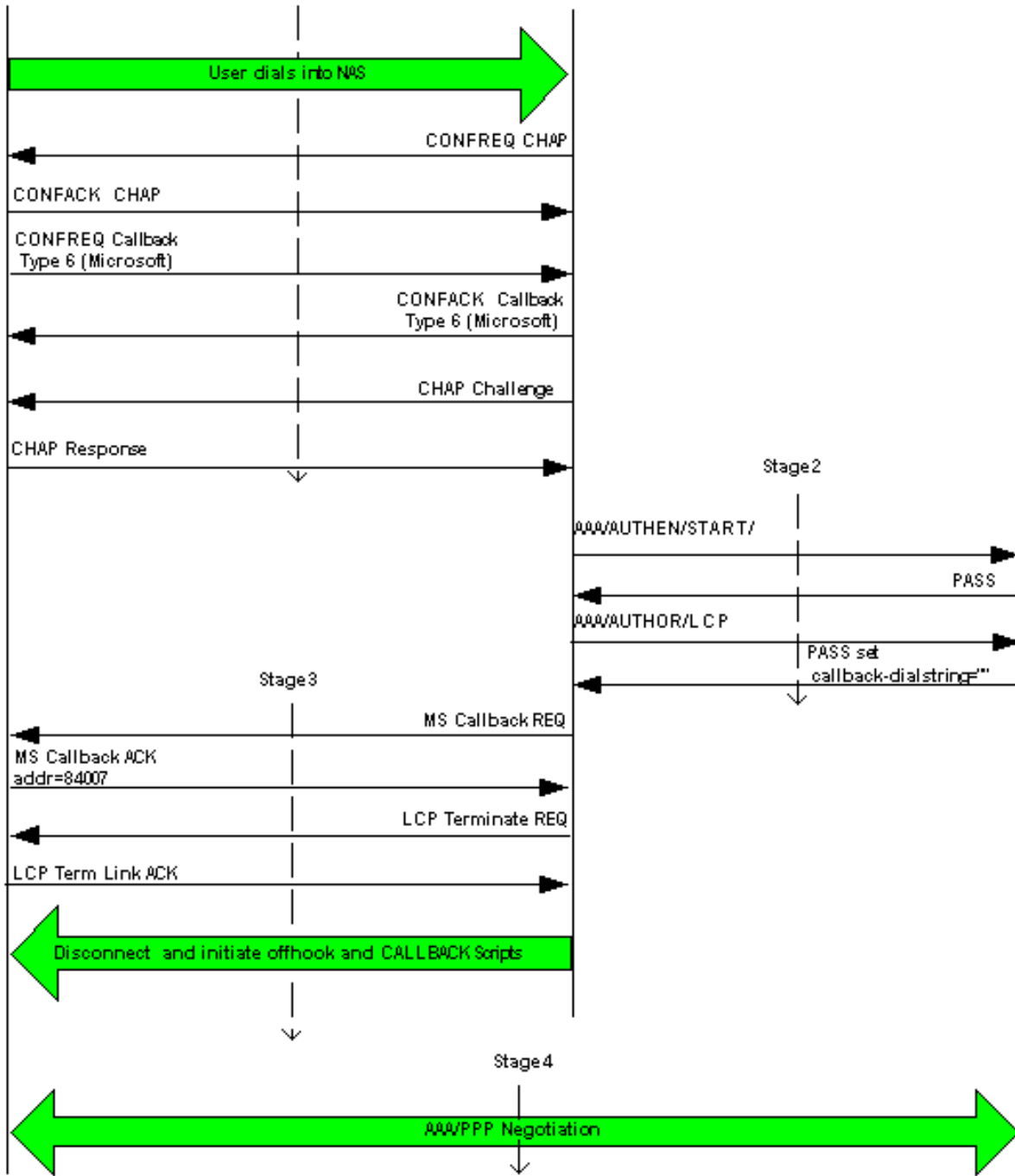
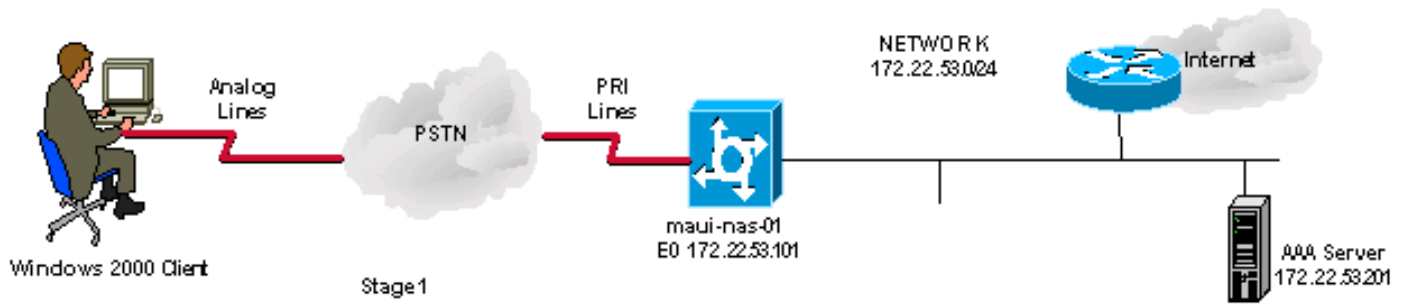
**Nota:** Antes de emitir comandos de depuração, consulte as informações importantes sobre eles.

- **debugar a autenticação aaa** — Indica a informação na autenticação de AAA.
- **debug aaa authorization** — Indica a informação na autorização de AAA.
- **debug callback** — Indica eventos de chamada de volta quando o roteador usa um modem e um a chat script ao retorno de chamada em uma linha terminal.
- **debugar o bate-papo** — Caráteres dos indicadores enviados entre o servidor do acesso de rede (NAS) e o PC. Um chat-script é um conjunto de pares de série de espera-envio que define o cumprimento entre os dispositivos DTE (equipamento de terminal de dados)-DTE ou DTE-DCE (Data communications equipment).
- **debug modem**—Exibe a atividade da linha do modem em um servidor de acesso.
- **debug ppp negotiation** - Exibe pacotes PPP transmitidos durante a inicialização de PPP, em que as opções de PPP são negociadas.
- **debug ppp authentication** Exibe mensagens de protocolo de autenticação, incluindo intercâmbios de pacote de Protocolo de Autenticação de Desafio (CHAP) e intercâmbios de Protocolo de Autenticação de Senha (PAP).
- **debugar tacacs+** — Indica o informação detalhada sobre debug associado com o TACACS+.

## Exemplo de debug

As fases individuais neste diagrama correspondem ao **resultado do debug** real que é indicado após este diagrama. Note que alguma saída esteve envolvida em duas linhas devido às considerações de espaçamento.





## Estágio 1

```
maui-nas-01#debug aaa authentication maui-nas-01#debug aaa authorization maui-nas-01#show debug
General OS: AAA Authentication debugging is on AAA Authorization debugging is on /--- AAA
negotiation begins, aborted because PPP is autoselected. Aug 1 09:23:53.320 CST: AAA: parse
name=tty6 idb type=10 tty=6 Aug 1 09:23:53.320 CST: AAA: name=tty6 flags=0x11 type=4 shelf=0
slot=0 adapter=0 port=6 channel=0 Aug 1 09:23:53.324 CST: AAA: parse name=Serial0:4 idb type=12
tty=-1 Aug 1 09:23:53.328 CST: AAA: name=Serial0:4 flags=0x51 type=1 shelf=0 slot=0 adapter=0
port=0 channel=4 Aug 1 09:23:53.332 CST: AAA/MEMORY: create_user (0x2A0AA0) user='' ruser=''
port='tty6' rem_addr='async/81560' authen_type=ASCII service=LOGIN priv=1 Aug 1 09:23:53.336
```

CST: AAA/AUTHEN/START (2776623843): port='tty6' list='' action=LOGIN service=LOGIN Aug 1 09:23:53.340 CST: AAA/AUTHEN/START (2776623843): using "default" list Aug 1 09:23:53.344 CST: AAA/AUTHEN/START (2776623843): Method=tacacs+ (tacacs+) Aug 1 09:23:53.348 CST: TAC+: send AUTHEN/START packet ver=192 id=2776623843 Aug 1 09:23:53.572 CST: TAC+: ver=192 id=2776623843 received AUTHEN status = GETUSER Aug 1 09:23:53.576 CST: AAA/AUTHEN (2776623843): status = GETUSER Aug 1 09:23:55.548 CST: AAA/AUTHEN/ABORT: (2776623843) because Autoselected. Aug 1 09:23:55.552 CST: TAC+: send abort reason=Autoselected Aug 1 09:23:55.668 CST: AAA/MEMORY: free\_user (0x2A0AA0) user='' ruser='' port='tty6' rem\_addr='async/81560' authen\_type=ASCII service=LOGIN priv=1 Aug 1 09:23:58.124 CST: %LINK-3-UPDOWN: Interface Async6, changed state to up Aug 1 09:23:58.148 CST: As6 AAA/AUTHOR/FSM: (0): LCP succeeds trivially Aug 1 09:23:58.912 CST: AAA: parse name=Async6 idb type=10 tty=6 Aug 1 09:23:58.916 CST: AAA: name=Async6 flags=0x11 type=4 shelf=0 slot=0 adapter=0 port=6 channel=0 Aug 1 09:23:58.916 CST: AAA: parse name=Serial0:4 idb type=12 tty=-1 Aug 1 09:23:58.920 CST: AAA: name=Serial0:4 flags=0x51 type=1 shelf=0 slot=0 adapter=0 port=0 channel=4 *!--- AAA Authentication start packet is sent to AAA server.* Aug 1 09:23:58.924 CST: AAA/MEMORY: create\_user (0x2984EC) user='callback\_user'ruser='' port='Async6' rem\_addr='async/81560' authen\_type=CHAP service=PPP priv=1 Aug 1 09:23:58.932 CST: AAA/AUTHEN/START (3527356355): port='Async6' list='' action=LOGIN service=PPP Aug 1 09:23:58.936 CST: AAA/AUTHEN (3527356355): status = UNKNOWN Aug 1 09:23:58.940 CST: AAA/AUTHEN/START (3527356355): Method=tacacs+ (tacacs+) *!--- Receive PASS from AAA server.* Aug 1 09:23:58.944 CST: TAC+: send AUTHEN/START packet ver=193 id=3527356355 Aug 1 09:23:59.172 CST: TAC+: ver=193 id=3527356355 received AUTHEN status = PASS Aug 1 09:23:59.172 CST: AAA/AUTHEN (3527356355): status = PASS *!--- AAA Authorization request sent to AAA server for LCP.* Aug 1 09:23:59.180 CST: As6 AAA/AUTHOR/LCP: Authorize LCP Aug 1 09:23:59.184 CST: As6 AAA/AUTHOR/LCP (1701401119): Port='Async6' list='' service=NET Aug 1 09:23:59.188 CST: AAA/AUTHOR/LCP: As6 (1701401119) user='callback\_user' Aug 1 09:23:59.192 CST: As6 AAA/AUTHOR/LCP (1701401119): send AV service=ppp Aug 1 09:23:59.196 CST: As6 AAA/AUTHOR/LCP (1701401119): send AV protocol=lcp Aug 1 09:23:59.196 CST: As6 AAA/AUTHOR/LCP (1701401119): found list "default" Aug 1 09:23:59.200 CST: As6 AAA/AUTHOR/LCP (1701401119): Method=tacacs+ (tacacs+) *!--- Receive PASS from AAA server, set the callback dialstring !--- via the "callback-dialstring" Attribute Value Pair.* Aug 1 09:23:59.204 CST: AAA/AUTHOR/TAC+: (1701401119): user=callback\_user Aug 1 09:23:59.208 CST: AAA/AUTHOR/TAC+: (1701401119): send AV service=ppp Aug 1 09:23:59.212 CST: AAA/AUTHOR/TAC+: (1701401119): send AV protocol=lcp Aug 1 09:23:59.440 CST: TAC+: (1701401119): received author response status = PASS\_ADD Aug 1 09:23:59.448 CST: As6 AAA/AUTHOR (1701401119): Post authorization status = PASS\_ADD Aug 1 09:23:59.452 CST: As6 AAA/AUTHOR/LCP: Processing AV service=ppp Aug 1 09:23:59.456 CST: As6 AAA/AUTHOR/LCP: Processing AV protocol=lcp Aug 1 09:23:59.456 CST: As6 AAA/AUTHOR/LCP: Processing AV callback-dialstring=81550

## Fase 2

maui-nas-01#debug aaa authentication maui-nas-01#debug aaa authorization maui-nas-01#show debug  
General OS: AAA Authentication debugging is on AAA Authorization debugging is on *!--- AAA negotiation begins, aborted because PPP is autoselected.* Aug 1 09:23:53.320 CST: AAA: parse name=tty6 idb type=10 tty=6 Aug 1 09:23:53.320 CST: AAA: name=tty6 flags=0x11 type=4 shelf=0 slot=0 adapter=0 port=6 channel=0 Aug 1 09:23:53.324 CST: AAA: parse name=Serial0:4 idb type=12 tty=-1 Aug 1 09:23:53.328 CST: AAA: name=Serial0:4 flags=0x51 type=1 shelf=0 slot=0 adapter=0 port=0 channel=4 Aug 1 09:23:53.332 CST: AAA/MEMORY: create\_user (0x2A0AA0) user='' ruser='' port='tty6' rem\_addr='async/81560' authen\_type=ASCII service=LOGIN priv=1 Aug 1 09:23:53.336 CST: AAA/AUTHEN/START (2776623843): port='tty6' list='' action=LOGIN service=LOGIN Aug 1 09:23:53.340 CST: AAA/AUTHEN/START (2776623843): using "default" list Aug 1 09:23:53.344 CST: AAA/AUTHEN/START (2776623843): Method=tacacs+ (tacacs+) Aug 1 09:23:53.348 CST: TAC+: send AUTHEN/START packet ver=192 id=2776623843 Aug 1 09:23:53.572 CST: TAC+: ver=192 id=2776623843 received AUTHEN status = GETUSER Aug 1 09:23:53.576 CST: AAA/AUTHEN (2776623843): status = GETUSER Aug 1 09:23:55.548 CST: AAA/AUTHEN/ABORT: (2776623843) because Autoselected. Aug 1 09:23:55.552 CST: TAC+: send abort reason=Autoselected Aug 1 09:23:55.668 CST: AAA/MEMORY: free\_user (0x2A0AA0) user='' ruser='' port='tty6' rem\_addr='async/81560' authen\_type=ASCII service=LOGIN priv=1 Aug 1 09:23:58.124 CST: %LINK-3-UPDOWN: Interface Async6, changed state to up Aug 1 09:23:58.148 CST: As6 AAA/AUTHOR/FSM: (0): LCP succeeds trivially Aug 1 09:23:58.912 CST: AAA: parse name=Async6 idb type=10 tty=6 Aug 1 09:23:58.916 CST: AAA: name=Async6 flags=0x11 type=4 shelf=0 slot=0 adapter=0 port=6 channel=0 Aug 1 09:23:58.916 CST: AAA: parse name=Serial0:4 idb type=12 tty=-1 Aug 1 09:23:58.920 CST: AAA: name=Serial0:4 flags=0x51 type=1 shelf=0 slot=0 adapter=0 port=0 channel=4 *!--- AAA Authentication start packet is sent to AAA server.* Aug 1 09:23:58.924 CST: AAA/MEMORY: create\_user (0x2984EC) user='callback\_user'ruser='' port='Async6' rem\_addr='async/81560' authen\_type=CHAP service=PPP priv=1 Aug 1 09:23:58.932 CST:

AAA/AUTHEN/START (3527356355): port='Async6' list='' action=LOGIN service=PPP Aug 1 09:23:58.936  
CST: AAA/AUTHEN/START (3527356355): using "default" list Aug 1 09:23:58.936 CST: AAA/AUTHEN  
(3527356355): status = UNKNOWN Aug 1 09:23:58.940 CST: AAA/AUTHEN/START (3527356355):  
Method=tacacs+ (tacacs+) *!--- Receive PASS from AAA Server.* Aug 1 09:23:58.944 CST: TAC+: send  
AUTHEN/START packet ver=193 id=3527356355 Aug 1 09:23:59.172 CST: TAC+: ver=193 id=3527356355  
received AUTHEN status = PASS Aug 1 09:23:59.172 CST: AAA/AUTHEN (3527356355): status = PASS *!---  
- AAA Authorization request sent to AAA server for LCP.* Aug 1 09:23:59.180 CST: As6  
AAA/AUTHOR/LCP: Authorize LCP Aug 1 09:23:59.184 CST: As6 AAA/AUTHOR/LCP (1701401119):  
Port='Async6' list='' service=NET Aug 1 09:23:59.188 CST: AAA/AUTHOR/LCP: As6 (1701401119)  
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service=ppp Aug 1 09:23:59.196 CST: As6 AAA/AUTHOR/LCP (1701401119): send AV protocol=lcp Aug 1  
09:23:59.196 CST: As6 AAA/AUTHOR/LCP (1701401119): found list "default" Aug 1 09:23:59.200 CST:  
As6 AAA/AUTHOR/LCP (1701401119): Method=tacacs+ (tacacs+) *!--- Receive PASS from AAA Server, set  
the callback dialstring !--- via the "callback-dialstring" Attribute Value Pair.* Aug 1  
09:23:59.204 CST: AAA/AUTHOR/TAC+: (1701401119): user=callback\_user Aug 1 09:23:59.208 CST:  
AAA/AUTHOR/TAC+: (1701401119): send AV service=ppp Aug 1 09:23:59.212 CST: AAA/AUTHOR/TAC+:  
(1701401119): send AV protocol=lcp Aug 1 09:23:59.440 CST: TAC+: (1701401119): received author  
response status = PASS\_ADD Aug 1 09:23:59.448 CST: As6 AAA/AUTHOR (1701401119): Post  
authorization status = PASS\_ADD Aug 1 09:23:59.452 CST: As6 AAA/AUTHOR/LCP: Processing AV  
service=ppp Aug 1 09:23:59.456 CST: As6 AAA/AUTHOR/LCP: Processing AV protocol=lcp Aug 1  
09:23:59.456 CST: As6 AAA/AUTHOR/LCP: Processing AV callback-dialstring=81550

### Fase 3

maui-nas-01#show debug General OS: Modem control/process activation debugging is on PPP: PPP  
protocol negotiation debugging is on Chat Scripts: Chat scripts activity debugging is on  
Callback: Callback activity debugging is on Aug 1 09:33:38.862 CST: As7 MCB: User callback\_user  
Callback Number - Server 81550 Aug 1 09:33:38.870 CST: Async7 PPP: O MCB Request(1) id 1 len 7  
Aug 1 09:33:38.874 CST: Async7 MCB: O 1 1 0 7 3 3 0 Aug 1 09:33:38.874 CST: As7 MCB: O Request  
Id 1 Callback Type Server-Num delay 0 Aug 1 09:33:38.878 CST: As7 PPP: Phase is CBCP Aug 1  
09:33:39.018 CST: Async7 PPP: I MCB Response(2) id 1 len 7 Aug 1 09:33:39.022 CST: Async7 MCB: I  
2 1 0 7 3 3 C Aug 1 09:33:39.026 CST: As7 MCB: Received response Aug 1 09:33:39.026 CST: As7  
MCB: Response CBK-Server-Num 3 3 12 Aug 1 09:33:39.034 CST: Async7 PPP: O MCB Ack(3) id 2 len 7  
Aug 1 09:33:39.034 CST: Async7 MCB: O 3 2 0 7 3 3 C Aug 1 09:33:39.038 CST: As7 MCB: O Ack Id 2  
Callback Type Server-Num delay 12 Aug 1 09:33:39.042 CST: As7 MCB: Negotiated MCB with peer *!---  
NAS sends LCP Terminate Request from client.* Aug 1 09:33:39.182 CST: As7 LCP: I TERMREQ [Open]  
id 6 len 16 (0x566260A7003CCD7400000000) *!--- NAS receives Terminate Acknowledge from client.*  
Aug 1 09:33:39.186 CST: As7 LCP: O TERMACK [Open] id 6 len 4 Aug 1 09:33:39.190 CST: As7 MCB:  
Peer terminating the link Aug 1 09:33:39.194 CST: As7 MCB: Link terminated by peer, Callback  
Needed Aug 1 09:33:39.198 CST: As7 MCB: Initiate Callback for callback\_user at 81550 using Async  
Aug 1 09:33:39.202 CST: As7 MCB: Async-callback in progress Aug 1 09:33:39.206 CST: As7 PPP:  
Phase is TERMINATING *!--- NAS disconnects and initiates offhook and CALLBACK chat scripts.* Aug 1  
09:33:39.210 CST: TTY7 Callback PPP process creation Aug 1 09:33:39.218 CST: TTY7 Callback  
process initiated, user: dialstring 81550 Aug 1 09:33:40.110 CST: %ISDN-6-DISCONNECT: Interface  
Serial0:5 disconnected from unknown , call lasted 19 seconds Aug 1 09:33:40.294 CST: TTY7: Async  
Int reset: Dropping DTR Aug 1 09:33:41.210 CST: As7 LCP: TIMEOUT: State TERMsent Aug 1  
09:33:41.210 CST: As7 LCP: State is Closed Aug 1 09:33:41.214 CST: As7 PPP: Phase is DOWN Aug 1  
09:33:41.218 CST: As7 PPP: Phase is ESTABLISHING, Passive Open Aug 1 09:33:41.226 CST: As7 LCP:  
State is Listen Aug 1 09:33:42.298 CST: %LINK-5-CHANGED: Interface Async7, changed state to  
reset Aug 1 09:33:42.318 CST: As7 LCP: State is Closed Aug 1 09:33:42.318 CST: As7 PPP: Phase is  
DOWN Aug 1 09:33:45.302 CST: As7 IPCP: Remove route to 172.22.53.147 Aug 1 09:33:45.306 CST:  
TTY7 Callback forced wait = 5 seconds Aug 1 09:33:47.302 CST: %LINK-3-UPDOWN: Interface Async7,  
changed state to down Aug 1 09:33:47.322 CST: As7 LCP: State is Closed Aug 1 09:33:50.310 CST:  
CHAT7: Matched chat script offhook to string offhook Aug 1 09:33:50.314 CST: CHAT7: Asserting  
DTR Aug 1 09:33:50.318 CST: CHAT7: Chat script offhook started Aug 1 09:33:50.322 CST: CHAT7:  
Sending string: ATH1 Aug 1 09:33:50.322 CST: CHAT7: Expecting string: OK Aug 1 09:33:50.634 CST:  
CHAT7: Completed match for expect: OK Aug 1 09:33:50.638 CST: CHAT7: Sending string: \c Aug 1  
09:33:50.638 CST: CHAT7: Chat script offhook finished, status = Success Aug 1 09:33:50.642 CST:  
CHAT7: Matched chat script CALLBACK to string CALLBACK Aug 1 09:33:50.650 CST: CHAT7: Asserting  
DTR Aug 1 09:33:50.650 CST: CHAT7: Chat script CALLBACK started Aug 1 09:33:50.654 CST: CHAT7:  
Sending string: AT Aug 1 09:33:50.658 CST: CHAT7: Expecting string: OK Aug 1 09:33:50.686 CST:  
CHAT7: Completed match for expect: OK Aug 1 09:33:50.686 CST: CHAT7: Sending string: ATDT  
\T<81550> Aug 1 09:33:50.694 CST: CHAT7: Expecting string: CONNECT Aug 1 09:34:04.051 CST:  
%ISDN-6-CONNECT: Interface Serial0:0 is now connected to 81550 Aug 1 09:34:17.543 CST: CHAT7:

Completed match for expect: CONNECT Aug 1 09:34:17.547 CST: CHAT7: Sending string: \c Aug 1 09:34:17.547 CST: CHAT7: Chat script CALLBACK finished, status = Success

## Fase 4

```
maui-nas-01#debug aaa authentication
maui-nas-01#debug aaa authorization maui-nas-01#debug ppp authentication maui-nas-01#show debug
General OS: AAA Authentication debugging is on AAA Authorization debugging is on PPP: PPP
authentication debugging is on PPP protocol negotiation debugging is on !--- AAA/ PPP
negotiation begins. Aug 1 09:42:15.096 CST: TTY8: Callback starting PPP directly with valid auth
info Aug 1 09:42:15.104 CST: TTY8: destroy timer type 1 Aug 1 09:42:15.104 CST: TTY8: destroy
timer type 0 Aug 1 09:42:15.160 CST: As8 LCP: I CONFREQ [Closed] id 0 len 47 Aug 1 09:42:15.164
CST: As8 LCP: ACCM 0x00000000 (0x020600000000) Aug 1 09:42:15.168 CST: As8 LCP: MagicNumber
0x5FA259DE (0x05065FA259DE) Aug 1 09:42:15.172 CST: As8 LCP: PFC (0x0702) Aug 1 09:42:15.172
CST: As8 LCP: ACFC (0x0802) Aug 1 09:42:15.176 CST: As8 LCP: MRRU 1614 (0x1104064E) Aug 1
09:42:15.180 CST: As8 LCP: EndpointDisc 1 Local Aug 1 09:42:15.184 CST: As8 LCP:
(0x131701DC57FC8B1CEA4CCEA064C0D958) Aug 1 09:42:15.188 CST: As8 LCP: (0x82667300000000) Aug 1
09:42:15.192 CST: As8 LCP: Lower layer not up, Fast Starting Aug 1 09:42:15.196 CST: As8 PPP:
Treating connection as a callout Aug 1 09:42:15.200 CST: As8 PPP: Phase is ESTABLISHING, Active
Open Aug 1 09:42:15.204 CST: AAA/MEMORY: dup_user (0x4DDDF8) user='callback_user' ruser=''
port='Async8' rem_addr='async/81560' authen_type=CHAP service=PPP priv=1 source='AAA dup
lcp_reset' Aug 1 09:42:15.212 CST: AAA/MEMORY: free_user (0x2F5418) user='callback_user'
ruser='' port='Async8' rem_addr='async/81560' authen_type=CHAP service=PPP priv=1 Aug 1
09:42:15.216 CST: As8 AAA/AUTHEN: Method=IF-NEEDED: no authentication needed.
user='callback_user' port='Async8' rem_addr='async/81560' Aug 1 09:42:15.224 CST: As8
AAA/AUTHOR/FSM: (0): LCP succeeds trivially Aug 1 09:42:15.228 CST: As8 LCP: O CONFREQ [Closed]
id 2 len 20 Aug 1 09:42:15.232 CST: As8 LCP: ACCM 0x000A0000 (0x0206000A0000) Aug 1 09:42:15.236
CST: As8 LCP: MagicNumber 0x6530AEA5 (0x05066530AEA5) Aug 1 09:42:15.240 CST: As8 LCP: PFC
(0x0702) Aug 1 09:42:15.240 CST: As8 LCP: ACFC (0x0802) Aug 1 09:42:15.248 CST: As8 LCP: O
CONFREQ [REQsent] id 0 len 8 Aug 1 09:42:15.252 CST: As8 LCP: MRRU 1614 (0x1104064E) Aug 1
09:42:15.260 CST: %LINK-3-UPDOWN: Interface Async8, changed state to up Aug 1 09:42:15.368 CST:
As8 LCP: I CONFACK [REQsent] id 2 len 20 Aug 1 09:42:15.372 CST: As8 LCP: ACCM 0x000A0000
(0x0206000A0000) Aug 1 09:42:15.376 CST: As8 LCP: MagicNumber 0x6530AEA5 (0x05066530AEA5) Aug 1
09:42:15.380 CST: As8 LCP: PFC (0x0702) Aug 1 09:42:15.384 CST: As8 LCP: ACFC (0x0802) Aug 1
09:42:15.404 CST: As8 LCP: I CONFREQ [ACKrcvd] id 1 len 43 Aug 1 09:42:15.408 CST: As8 LCP: ACCM
0x00000000 (0x020600000000) Aug 1 09:42:15.412 CST: As8 LCP: MagicNumber 0x5FA259DE
(0x05065FA259DE) Aug 1 09:42:15.412 CST: As8 LCP: PFC (0x0702) Aug 1 09:42:15.416 CST: As8 LCP:
ACFC (0x0802) Aug 1 09:42:15.420 CST: As8 LCP: EndpointDisc 1 Local Aug 1 09:42:15.424 CST: As8
LCP: (0x131701DC57FC8B1CEA4CCEA064C0D958) Aug 1 09:42:15.428 CST: As8 LCP: (0x82667300000000)
Aug 1 09:42:15.432 CST: As8 LCP: O CONFACK [ACKrcvd] id 1 len 43 Aug 1 09:42:15.436 CST: As8
LCP: ACCM 0x00000000 (0x020600000000) Aug 1 09:42:15.440 CST: As8 LCP: MagicNumber 0x5FA259DE
(0x05065FA259DE) Aug 1 09:42:15.444 CST: As8 LCP: PFC (0x0702) Aug 1 09:42:15.448 CST: As8 LCP:
ACFC (0x0802) Aug 1 09:42:15.452 CST: As8 LCP: EndpointDisc 1 Local Aug 1 09:42:15.456 CST: As8
LCP: (0x131701DC57FC8B1CEA4CCEA064C0D958) Aug 1 09:42:15.460 CST: As8 LCP: (0x82667300000000)
Aug 1 09:42:15.460 CST: As8 LCP: State is Open Aug 1 09:42:15.468 CST: As8 AAA/AUTHOR/LCP:
Authorize LCP Aug 1 09:42:15.468 CST: As8 AAA/AUTHOR/LCP (2679858087): Port='Async8' list=''
service=NET Aug 1 09:42:15.472 CST: AAA/AUTHOR/LCP: As8 (2679858087) user='callback_user' Aug 1
09:42:15.476 CST: As8 AAA/AUTHOR/LCP (2679858087): send AV service=ppp Aug 1 09:42:15.480 CST:
As8 AAA/AUTHOR/LCP (2679858087): send AV protocol=lcp Aug 1 09:42:15.484 CST: As8 AAA/AUTHOR/LCP
(2679858087): found list "default" Aug 1 09:42:15.488 CST: As8 AAA/AUTHOR/LCP (2679858087):
Method=tacacs+ (tacacs+) Aug 1 09:42:15.492 CST: AAA/AUTHOR/TAC+: (2679858087):
user=callback_user Aug 1 09:42:15.492 CST: AAA/AUTHOR/TAC+: (2679858087): send AV service=ppp
Aug 1 09:42:15.496 CST: AAA/AUTHOR/TAC+: (2679858087): send AV protocol=lcp Aug 1 09:42:15.724
CST: TAC+: (2679858087): received author response status = PASS_ADD Aug 1 09:42:15.732 CST: As8
AAA/AUTHOR (2679858087): Post authorization status = PASS_ADD Aug 1 09:42:15.736 CST: As8
AAA/AUTHOR/LCP: Processing AV service=ppp Aug 1 09:42:15.740 CST: As8 AAA/AUTHOR/LCP: Processing
AV protocol=lcp Aug 1 09:42:15.740 CST: As8 AAA/AUTHOR/LCP: Processing AV callback-
dialstring=81550 Aug 1 09:42:15.748 CST: As8 PPP: Phase is UP Aug 1 09:42:15.752 CST: As8
AAA/AUTHOR/FSM: (0): Can we start IPCP? Aug 1 09:42:15.756 CST: As8 AAA/AUTHOR/FSM (3644410406):
Port='Async8' list='' service=NET Aug 1 09:42:15.760 CST: AAA/AUTHOR/FSM: As8 (3644410406)
user='callback_user' Aug 1 09:42:15.764 CST: As8 AAA/AUTHOR/FSM (3644410406): send AV
service=ppp Aug 1 09:42:15.768 CST: As8 AAA/AUTHOR/FSM (3644410406): send AV protocol=ip Aug 1
09:42:15.768 CST: As8 AAA/AUTHOR/FSM (3644410406): found list "default" Aug 1 09:42:15.772 CST:
As8 AAA/AUTHOR/FSM (3644410406): Method=tacacs+ (tacacs+) Aug 1 09:42:15.776 CST:
```

AAA/AUTHOR/TAC+: (3644410406): user=callback\_user Aug 1 09:42:15.780 CST: AAA/AUTHOR/TAC+: (3644410406): send AV service=ppp Aug 1 09:42:15.784 CST: AAA/AUTHOR/TAC+: (3644410406): send AV protocol=ip Aug 1 09:42:16.016 CST: TAC+: (3644410406): received author response status = PASS\_ADD Aug 1 09:42:16.020 CST: As8 AAA/AUTHOR (3644410406): Post authorization status = PASS\_ADD Aug 1 09:42:16.028 CST: As8 AAA/AUTHOR/FSM: We can start IPCP Aug 1 09:42:16.032 CST: As8 IPCP: O CONFREQ [Closed] id 1 len 16 Aug 1 09:42:16.036 CST: As8 IPCP: CompressType VJ 15 slots (0x0206002D0F00) Aug 1 09:42:16.040 CST: As8 IPCP: Address 172.22.53.101 (0x0306AC163565) Aug 1 09:42:16.048 CST: As8 LCP: I IDENTIFY [Open] id 2 len 18 magic 0x5FA259DEMSRASV5.00 Aug 1 09:42:16.052 CST: As8 LCP: I IDENTIFY [Open] id 3 len 29 magic 0x5FA259DEMSRAS-1-RBROWN-LAPTOP Aug 1 09:42:16.056 CST: As8 CCP: I CONFREQ [Not negotiated] id 4 len 10 Aug 1 09:42:16.060 CST: As8 CCP: MS-PPC supported bits 0x00000001 (0x120600000001) Aug 1 09:42:16.068 CST: As8 LCP: O PROTREQ [Open] id 3 len 16 protocol CCP (0x80FD0104000A120600000001) Aug 1 09:42:16.080 CST: As8 IPCP: I CONFREQ [REQsent] id 5 len 40 Aug 1 09:42:16.084 CST: As8 IPCP: CompressType VJ 15 slots CompressSlotID (0x0206002D0F01) Aug 1 09:42:16.088 CST: As8 IPCP: Address 0.0.0.0 (0x030600000000) Aug 1 09:42:16.092 CST: As8 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000) Aug 1 09:42:16.096 CST: As8 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000) Aug 1 09:42:16.100 CST: As8 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000) Aug 1 09:42:16.104 CST: As8 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000) Aug 1 09:42:16.108 CST: As8 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 172.22.53.148 Aug 1 09:42:16.112 CST: As8 AAA/AUTHOR/IPCP: Processing AV service=ppp Aug 1 09:42:16.116 CST: As8 AAA/AUTHOR/IPCP: Processing AV protocol=ip Aug 1 09:42:16.120 CST: As8 AAA/AUTHOR/IPCP: Authorization succeeded Aug 1 09:42:16.120 CST: As8 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 172.22.53.148 Aug 1 09:42:16.128 CST: As8 IPCP: O CONFREQ [REQsent] id 5 len 22 Aug 1 09:42:16.132 CST: As8 IPCP: PrimaryWINS 0.0.0.0 (0x820600000000) Aug 1 09:42:16.136 CST: As8 IPCP: SecondaryDNS 0.0.0.0 (0x830600000000) Aug 1 09:42:16.144 CST: As8 IPCP: SecondaryWINS 0.0.0.0 (0x840600000000) Aug 1 09:42:16.184 CST: As8 IPCP: I CONFACK [REQsent] id 1 len 16 Aug 1 09:42:16.188 CST: As8 IPCP: CompressType VJ 15 slots (0x0206002D0F00) Aug 1 09:42:16.192 CST: As8 IPCP: Address 172.22.53.101 (0x0306AC163565) Aug 1 09:42:16.680 CST: As8 IPCP: I CONFREQ [ACKrcvd] id 6 len 22 Aug 1 09:42:16.684 CST: As8 IPCP: CompressType VJ 15 slots CompressSlotID (0x0206002D0F01) Aug 1 09:42:16.688 CST: As8 IPCP: Address 0.0.0.0 (0x030600000000) Aug 1 09:42:16.692 CST: As8 IPCP: PrimaryDNS 0.0.0.0 (0x810600000000) Aug 1 09:42:16.696 CST: As8 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 172.22.53.148 Aug 1 09:42:16.700 CST: As8 AAA/AUTHOR/IPCP: Processing AV service=ppp Aug 1 09:42:16.704 CST: As8 AAA/AUTHOR/IPCP: Processing AV protocol=ip Aug 1 09:42:16.708 CST: As8 AAA/AUTHOR/IPCP: Authorization succeeded Aug 1 09:42:16.708 CST: As8 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 172.22.53.148 Aug 1 09:42:16.716 CST: As8 IPCP: O CONFNAK [ACKrcvd] id 6 len 16 Aug 1 09:42:16.720 CST: As8 IPCP: Address 172.22.53.148 (0x0306AC163594) Aug 1 09:42:16.724 CST: As8 IPCP: PrimaryDNS 172.22.53.210 (0x8106AC1635D2) Aug 1 09:42:16.748 CST: %LINEPROTO-5-UPDOWN: Line protocol on Interface Async8, changed state to up Aug 1 09:42:16.852 CST: As8 IPCP: I CONFREQ [ACKrcvd] id 7 len 22 Aug 1 09:42:16.856 CST: As8 IPCP: CompressType VJ 15 slots CompressSlotID (0x0206002D0F01) Aug 1 09:42:16.860 CST: As8 IPCP: Address 172.22.53.148 (0x0306AC163594) Aug 1 09:42:16.864 CST: As8 IPCP: PrimaryDNS 172.22.53.210 (0x8106AC1635D2) Aug 1 09:42:16.868 CST: As8 AAA/AUTHOR/IPCP: Start. Her address 172.22.53.148, we want 172.22.53.148 Aug 1 09:42:16.876 CST: As8 AAA/AUTHOR/IPCP (4022385425): Port='Async8' list='service=NET Aug 1 09:42:16.880 CST: AAA/AUTHOR/IPCP: As8 (4022385425) user='callback\_user' Aug 1 09:42:16.884 CST: As8 AAA/AUTHOR/IPCP (4022385425): send AV service=ppp Aug 1 09:42:16.888 CST: As8 AAA/AUTHOR/IPCP (4022385425): send AV protocol=ip Aug 1 09:42:16.892 CST: As8 AAA/AUTHOR/IPCP (4022385425): send AV addr\*172.22.53.148 Aug 1 09:42:16.892 CST: As8 AAA/AUTHOR/IPCP (4022385425): found list "default" Aug 1 09:42:16.896 CST: As8 AAA/AUTHOR/IPCP (4022385425): Method=tacacs+ (tacacs+) Aug 1 09:42:16.900 CST: AAA/AUTHOR/TAC+: (4022385425): user=callback\_user Aug 1 09:42:16.904 CST: AAA/AUTHOR/TAC+: (4022385425): send AV service=ppp Aug 1 09:42:16.908 CST: AAA/AUTHOR/TAC+: (4022385425): send AV protocol=ip Aug 1 09:42:16.912 CST: AAA/AUTHOR/TAC+: (4022385425): send AV addr\*172.22.53.148 Aug 1 09:42:17.140 CST: TAC+: (4022385425): received author response status = PASS\_REPL Aug 1 09:42:17.148 CST: As8 AAA/AUTHOR (4022385425): Post authorization status = PASS\_REPL Aug 1 09:42:17.156 CST: As8 AAA/AUTHOR/IPCP: Reject 172.22.53.148, using 172.22.53.148 Aug 1 09:42:17.164 CST: As8 AAA/AUTHOR/IPCP: Processing AV service=ppp Aug 1 09:42:17.164 CST: As8 AAA/AUTHOR/IPCP: Processing AV protocol=ip Aug 1 09:42:17.168 CST: As8 AAA/AUTHOR/IPCP: Processing AV addr\*172.22.53.148 Aug 1 09:42:17.172 CST: As8 AAA/AUTHOR/IPCP: Authorization succeeded Aug 1 09:42:17.176 CST: As8 AAA/AUTHOR/IPCP: Done. Her address 172.22.53.148, we want 172.22.53.148 Aug 1 09:42:17.180 CST: As8 IPCP: O CONFACK [ACKrcvd] id 7 len 22 Aug 1 09:42:17.184 CST: As8 IPCP: CompressType VJ 15 slots CompressSlotID (0x0206002D0F01) Aug 1 09:42:17.192 CST: As8 IPCP: Address 172.22.53.148 (0x0306AC163594) Aug 1 09:42:17.196 CST: As8 IPCP: PrimaryDNS 172.22.53.210 (0x8106AC1635D2) Aug 1 09:42:17.200 CST: As8 IPCP: State is Open Aug 1 09:42:17.220 CST: As8 IPCP: Install route to 172.22.53.148

## Informações Relacionadas

- [Cisco Secure ACS para página de suporte do Windows](#)
- [Página de suporte de TACACS+](#)
- [TACACS+ na Documentação do IOS](#)
- [Suporte Técnico e Documentação - Cisco Systems](#)