Como aplicar listas de acesso a interfaces de discagem com um servidor TACACS+

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Introduction

Este documento demonstra como aplicar listas de acesso a interfaces de discagem com um servidor TACACS+. Há dois métodos possíveis:

- Defina a lista de acesso numerada no roteador e faça referência à lista de acesso numerada no servidor. Isso é suportado na maioria das versões do software Cisco IOS®.
- Defina toda a lista de acesso no servidor. O Cisco IOS Software Release 11.3 ou posterior é necessário para este método **por usuário**.

Observação: para ISDN, você deve usar o método **por usuário** e deve ter perfis virtuais configurados no roteador.

Prerequisites

Requirements

Não existem requisitos específicos para este documento.

Componentes Utilizados

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

- Software Cisco IOS versão 11.1 ou posterior (defina as listas de acesso no roteador)Software Cisco IOS versão 11.3 ou posterior (defina listas de acesso no servidor)
- Cisco Secure ACS para UNIXCisco Secure ACS para Windows 2.x e posteriorFreeware TACACS+

Observação: este documento pressupõe que o acesso de discagem foi configurado anteriormente. Este documento não discute os detalhes da configuração de discagem. Consulte Configuração do NAS para Acesso de Discagem Básico para obter informações sobre como configurar um servidor de acesso à rede (NAS) para Discagem.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

Consulte as Convenções de Dicas Técnicas da Cisco para obter mais informações sobre convenções de documentos.

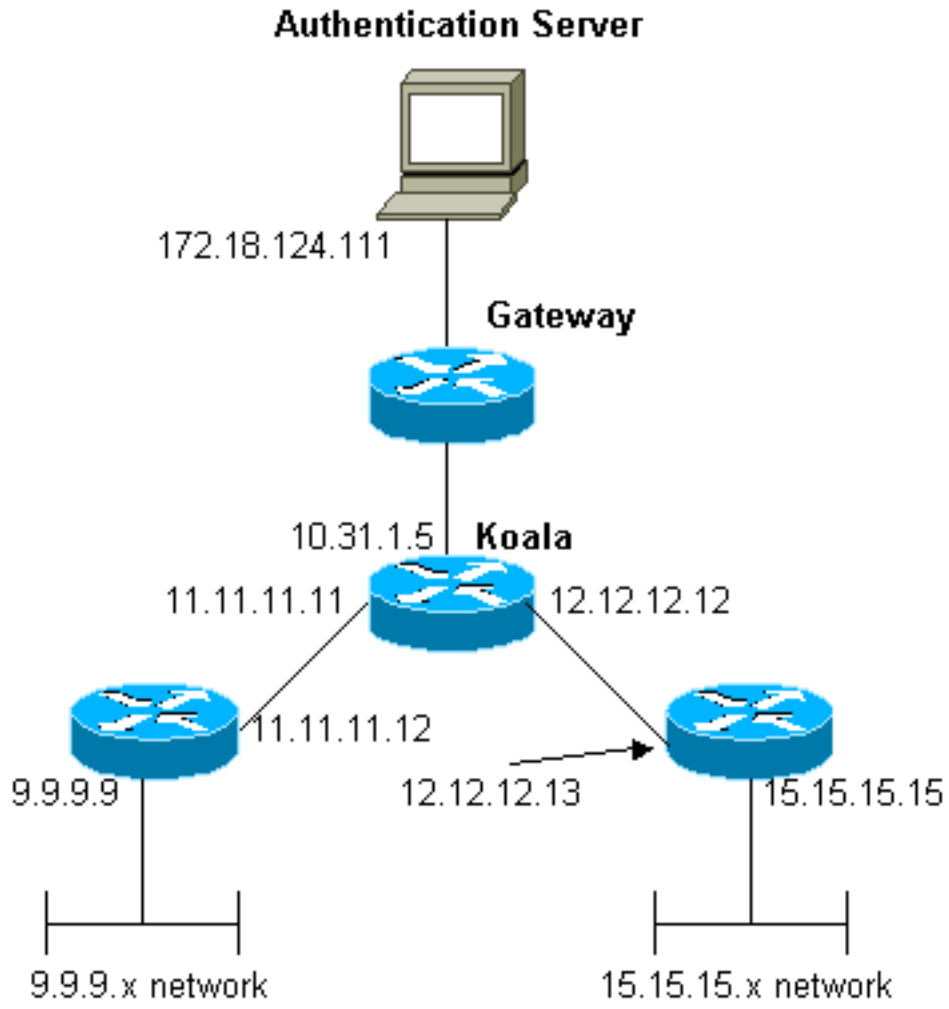
Configurar

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

Nota:Use a Command Lookup Tool (somente clientes registrados) para obter mais informações sobre os comandos usados neste documento.

Diagrama de Rede

Este documento utiliza a seguinte configuração de rede:



Observação: as configurações permitem que o usuário que recebe um endereço 1.1.1.x de "'mypool" para a rede de ping (tráfego ICMP) 9.9.9.x e Telnet (tráfego TCP) para a rede 15.15.x. Ele não permite que o usuário faça ping na rede 15.15.15.x ou Telnet para a rede 9.9.9.x.

Configurações

Este documento utiliza estas configurações.

- Cisco 2500 Series Router executando o Cisco IOS Software Release 12.0(5)T
- Cisco Secure ACS para UNIX 2.3
- Cisco Secure ACS para Windows 3.2

Definir listas de acesso numeradas no roteador

Roteador Cisco 2500 Series que executa o Cisco IOS Software Release 12.0(5)T

`Current configuration:`
`!`
`version 12.0`
`service timestamps debug uptime`
`service timestamps log uptime`
`no service password-encryption`
`!`
`hostname koala`

```
!
aaa new-model
!
!--- These three lines of the configuration !--- are
specific to Cisco IOS Software Release 12.0.5.T and
later. !--- See the Commands for Other Cisco IOS
Releases section for commands !--- for other Cisco IOS
releases. ! aaa authentication login default local group
tacacs+
aaa authentication ppp default if-needed group tacacs+
aaa authorization network default group tacacs+
enable secret 5 $1$mnZQ$g6XdsgVnnYjEa.l7v.Pij1
enable password ww
!
username john password 0 doe
!
ip subnet-zero
!
cns event-service server
!
interface Ethernet0
ip address 10.31.1.5 255.255.255.0
no ip directed-broadcast
no mop enabled
!
interface Serial0
ip address 11.11.11.11 255.255.255.0
no ip directed-broadcast
no ip mroute-cache
no fair-queue
!
interface Serial1
ip address 12.12.12.12 255.255.255.0
no ip directed-broadcast
!
interface Async1
ip unnumbered Ethernet0
no ip directed-broadcast
encapsulation ppp
no ip route-cache
no ip mroute-cache
async mode dedicated
peer default ip address pool mypool
fair-queue 64 16 0
no cdp enable
ppp authentication chap
!
ip local pool mypool 1.1.1.1 1.1.1.5
ip classless
ip route 0.0.0.0 0.0.0.0 10.31.1.1
ip route 9.9.9.0 255.255.255.0 11.11.11.12
ip route 15.15.15.0 255.255.255.0 12.12.12.13
no ip http server
!
!--- Access list 101 is defined on the NAS. access-list
101 permit icmp 1.1.1.0 0.0.0.255 9.9.9.0 0.0.0.255
access-list 101 permit tcp 1.1.1.0 0.0.0.255 15.15.15.0
0.0.0.255
dialer-list 1 protocol ip permit
dialer-list 1 protocol ipx permit
!
!--- Specify TACACS+ server host and key. tacacs-server
host 172.18.124.111
tacacs-server key cisco
```

```
!
line con 0
transport input none
line 1
modem InOut
transport input all
stopbits 1
speed 115200
flowcontrol hardware
line 2 16
line aux 0
line vty 0 4
password ww
!
end
```

Comandos para outras versões de Cisco IOS

Observação: para usar esses comandos, remova os comandos em negrito da configuração do Cisco 2500 Series Router e cole esses comandos, conforme indicado pela sua versão do Cisco IOS Software.

Software Cisco IOS versão 11.3.3.T a 12.0.5.T

```
aaa authentication login default tacacs+ local
aaa authentication ppp default if-needed tacacs+ local
aaa authorization network default tacacs+
```

Software Cisco IOS versão 11.1 a 11.3.3.T

```
aaa authentication login default tacacs+
aaa authentication ppp default if-needed tacacs+
aaa authorization network tacacs+
```

Configuração do servidor - TACACS+ Freeware

```
user = chaprtr {
chap = cleartext chaprtr
service = ppp protocol = ip {
inacl=101
}
}
```

Configuração do servidor - Cisco Secure UNIX - TACACS+

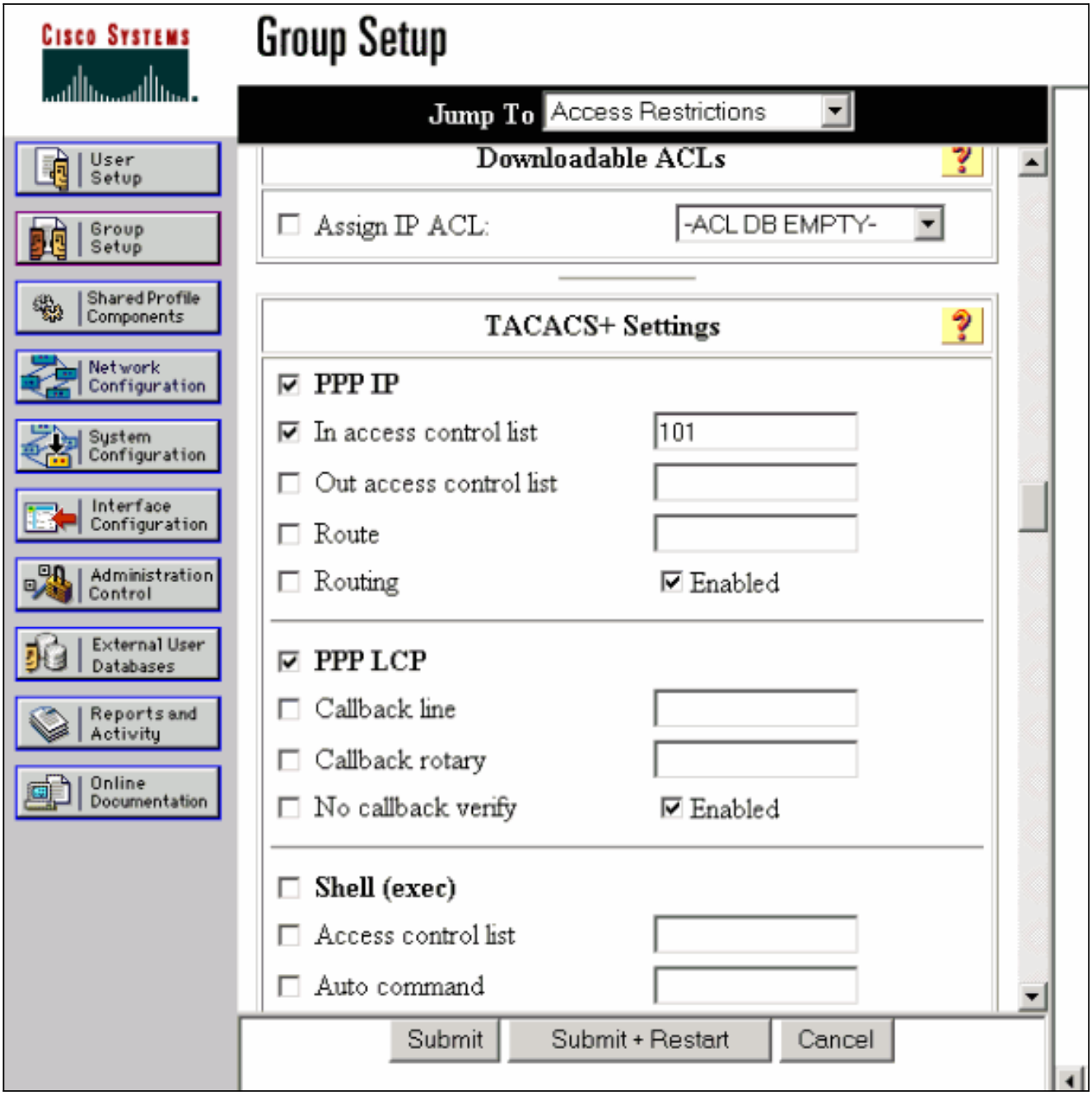
```
rtp-berry# ./ViewProfile -p 9900 -u chaprtr
User Profile Information
user = chaprtr{
profile_id = 182
set server current-failed-logins = 1
profile_cycle = 2
service=ppp {
protocol=lcp {
}
protocol=ip {
set inacl=101
}
```

```
}
password = chap "chaprtr"
}
```

Configuração do servidor - Cisco Secure ACS para Windows 2.x e posterior - TACACS+

Conclua estes passos para configurar o Cisco Secure ACS para Windows para especificar quais ACLs o NAS deve aplicar.

1. Clique em **Group Setup**, selecione o grupo ao qual o usuário pertence e clique em **Edit Settings**.
2. Clique nas caixas de seleção **PPP IP**, **In access control list** e **PPP LCP** na seção TACACS+ Settings.Especifique o número da ACL a ser aplicada (nesse caso, 101) na caixa "In access control list" (Na lista de controle de acesso).
3. Marque **Enabled (Habilitado)** para habilitar as opções **PPP IP** e **PPP LCP**.



Debug de Exemplo de Roteador

```
koala#show debug
General OS:
TACACS access control debugging is on
AAA Authentication debugging is on
AAA Authorization debugging is on
koala#show ip access-lists
Extended IP access list 101
permit icmp 1.1.1.0 0.0.0.255 9.9.9.0 0.0.0.255 log (2 matches)
permit tcp 1.1.1.0 0.0.0.255 15.15.15.0 0.0.0.255 log (11 matches)
koala#
4d05h: As1 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
4d05h: %LINK-3-UPDOWN: Interface Async1, changed state to up
4d05h: AAA: parse name=Async1 idb type=10 tty=1
4d05h: AAA: name=Async1 flags=0x11 type=4 shelf=0 slot=0
adapter=0 port=1 channel=0
4d05h: AAA/MEMORY: create_user (0x54F934) user='chaprtr'
ruser='' port='Async1' rem_addr='async' authen_type=CHAP
service=PPP priv=1
4d05h: AAA/AUTHEN/START (1203050692): port='Async1' list=''
action=LOGIN service=PPP
4d05h: AAA/AUTHEN/START (1203050692): using "default" list
4d05h: AAA/AUTHEN (1203050692): status = UNKNOWN
4d05h: AAA/AUTHEN/START (1203050692): Method=tacacs+ (tacacs+)
4d05h: TAC+: send AUTHEN/START packet ver=193 id=1203050692
4d05h: TAC+: Using default tacacs server-group "tacacs+" list.
4d05h: TAC+: Opening TCP/IP to 172.18.124.111/49 timeout=5
4d05h: TAC+: Opened TCP/IP handle 0x538778 to 172.18.124.111/49
4d05h: TAC+: 172.18.124.111 (1203050692) AUTHEN/START/LOGIN/CHAP queued
4d05h: TAC+: (1203050692) AUTHEN/START/LOGIN/CHAP processed
4d05h: TAC+: ver=192 id=1203050692 received AUTHEN status = GETPASS
4d05h: TAC+: Closing TCP/IP 0x538778 connection to 172.18.124.111/49
4d05h: TAC+: Opening TCP/IP to 172.18.124.111/49 timeout=5
4d05h: TAC+: Opened TCP/IP handle 0x538BBC to 172.18.124.111/49
4d05h: TAC+: Opened 172.18.124.111 index=1
4d05h: AAA: parse name=Async1 idb type=-1 tty=-1
4d05h: AAA: name=Async1 flags=0x11 type=4 shelf=0 slot=0 adapter=0
port=1 channel=0
4d05h: AAA/MEMORY: create_user (0x19FCF8) user='chaprtr' ruser=''
port='Async1' rem_addr='async' authen_type=CHAP service=PPP priv=1
4d05h: TAC+: rev0 inbound chap for id=1203050692 using id=2966879003
4d05h: TAC+: 172.18.124.111 (2966879003) AUTHEN/START/SENDPASS/CHAP queued
4d05h: TAC+: (2966879003) AUTHEN/START/SENDPASS/CHAP processed
4d05h: TAC+: ver=192 id=2966879003 received AUTHEN status = PASS
4d05h: TAC+: rev0 inbound chap SENDPASS status=PASS for id=1203050692
4d05h: TAC+: rev0 inbound chap MD5 compare OK
4d05h: AAA/MEMORY: free_user (0x19FCF8) user='chaprtr' ruser=''
port='Async1' rem_addr='async' authen_type=CHAP service=PPP priv=1
4d05h: TAC+: Closing TCP/IP 0x538BBC connection to 172.18.124.111/49
4d05h: AAA/AUTHEN (1203050692): status = PASS
4d05h: As1 AAA/AUTHOR/LCP: Authorize LCP
4d05h: As1 AAA/AUTHOR/LCP (3002156107): Port='Async1' list='' service=NET
4d05h: AAA/AUTHOR/LCP: As1 (3002156107) user='chaprtr'
4d05h: As1 AAA/AUTHOR/LCP (3002156107): send AV service=ppp
4d05h: As1 AAA/AUTHOR/LCP (3002156107): send AV protocol=lcp
4d05h: As1 AAA/AUTHOR/LCP (3002156107): found list "default"
4d05h: As1 AAA/AUTHOR/LCP (3002156107): Method=tacacs+ (tacacs+)
4d05h: AAA/AUTHOR/TAC+: (3002156107): user=chaprtr
4d05h: AAA/AUTHOR/TAC+: (3002156107): send AV service=ppp
4d05h: AAA/AUTHOR/TAC+: (3002156107): send AV protocol=lcp
4d05h: TAC+: using previously set server 172.18.124.111 from group tacacs+
4d05h: TAC+: Opening TCP/IP to 172.18.124.111/49 timeout=5
4d05h: TAC+: Opened TCP/IP handle 0x539000 to 172.18.124.111/49
```

```
4d05h: TAC+: Opened 172.18.124.111 index=1
4d05h: TAC+: 172.18.124.111 (3002156107) AUTHOR/START queued
4d05h: TAC+: (3002156107) AUTHOR/START processed
4d05h: TAC+: (3002156107): received author response status = PASS_ADD
4d05h: TAC+: Closing TCP/IP 0x539000 connection to 172.18.124.111/49
4d05h: As1 AAA/AUTHOR (3002156107): Post authorization status = PASS_ADD
4d05h: As1 AAA/AUTHOR/FSM: (0): Can we start IPCP?
4d05h: As1 AAA/AUTHOR/FSM (1577158668): Port='Async1' list='' service=NET
4d05h: AAA/AUTHOR/FSM: As1 (1577158668) user='chaprtr'
4d05h: As1 AAA/AUTHOR/FSM (1577158668): send AV service=ppp
4d05h: As1 AAA/AUTHOR/FSM (1577158668): send AV protocol=ip
4d05h: As1 AAA/AUTHOR/FSM (1577158668): found list "default"
4d05h: As1 AAA/AUTHOR/FSM (1577158668): Method=tacacs+ (tacacs+)
4d05h: AAA/AUTHOR/TAC+: (1577158668): user=chaprtr
4d05h: AAA/AUTHOR/TAC+: (1577158668): send AV service=ppp
4d05h: AAA/AUTHOR/TAC+: (1577158668): send AV protocol=ip
4d05h: TAC+: using previously set server 172.18.124.111 from group tacacs+
4d05h: TAC+: Opening TCP/IP to 172.18.124.111/49 timeout=5
4d05h: TAC+: Opened TCP/IP handle 0x539444 to 172.18.124.111/49
4d05h: TAC+: Opened 172.18.124.111 index=1
4d05h: TAC+: 172.18.124.111 (1577158668) AUTHOR/START queued
4d05h: TAC+: (1577158668) AUTHOR/START processed
4d05h: TAC+: (1577158668): received author response status = PASS_ADD
4d05h: TAC+: Closing TCP/IP 0x539444 connection to 172.18.124.111/49
4d05h: As1 AAA/AUTHOR (1577158668): Post authorization status = PASS_ADD
4d05h: As1 AAA/AUTHOR/FSM: We can start IPCP
4d05h: %LINEPROTO-5-UPDOWN: Line protocol on Interface Async1,
changed state to up
4d05h: As1 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 0.0.0.0
4d05h: As1 AAA/AUTHOR/IPCP: Processing AV service=ppp
4d05h: As1 AAA/AUTHOR/IPCP: Processing AV protocol=ip
4d05h: As1 AAA/AUTHOR/IPCP: Processing AV inacl=101
4d05h: As1 AAA/AUTHOR/IPCP: Authorization succeeded
4d05h: As1 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 0.0.0.0
4d05h: As1 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 1.1.1.2
4d05h: As1 AAA/AUTHOR/IPCP: Processing AV service=ppp
4d05h: As1 AAA/AUTHOR/IPCP: Processing AV protocol=ip
 !--- Apply ACL 101 in the inbound direction. 4d05h: As1 AAA/AUTHOR/IPCP: Processing AV
inacl=101
4d05h: As1 AAA/AUTHOR/IPCP: Authorization succeeded
4d05h: As1 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 1.1.1.2
4d05h: As1 AAA/AUTHOR/IPCP: Start. Her address 1.1.1.2, we want 1.1.1.2
4d05h: As1 AAA/AUTHOR/IPCP (1659098608): Port='Async1' list=''
service=NET
4d05h: AAA/AUTHOR/IPCP: As1 (1659098608) user='chaprtr'
4d05h: As1 AAA/AUTHOR/IPCP (1659098608): send AV service=ppp
4d05h: As1 AAA/AUTHOR/IPCP (1659098608): send AV protocol=ip
4d05h: As1 AAA/AUTHOR/IPCP (1659098608): send AV addr*1.1.1.2
4d05h: As1 AAA/AUTHOR/IPCP (1659098608): found list "default"
4d05h: As1 AAA/AUTHOR/IPCP (1659098608): Method=tacacs+ (tacacs+)
4d05h: AAA/AUTHOR/TAC+: (1659098608): user=chaprtr
4d05h: AAA/AUTHOR/TAC+: (1659098608): send AV service=ppp
4d05h: AAA/AUTHOR/TAC+: (1659098608): send AV protocol=ip
4d05h: AAA/AUTHOR/TAC+: (1659098608): send AV addr*1.1.1.2
4d05h: TAC+: using previously set server 172.18.124.111 from
group tacacs+
4d05h: TAC+: Opening TCP/IP to 172.18.124.111/49 timeout=5
4d05h: TAC+: Opened TCP/IP handle 0x538BBC to 172.18.124.111/49
4d05h: TAC+: Opened 172.18.124.111 index=1
4d05h: TAC+: 172.18.124.111 (1659098608) AUTHOR/START queued
4d05h: TAC+: (1659098608) AUTHOR/START processed
4d05h: TAC+: (1659098608): received author response status = PASS_REPL
4d05h: TAC+: Closing TCP/IP 0x538BBC connection to 172.18.124.111/49
4d05h: As1 AAA/AUTHOR (1659098608): Post authorization status = PASS_REPL
```

```
4d05h: As1 AAA/AUTHOR/IPCP: Reject 1.1.1.2, using 1.1.1.2
4d05h: As1 AAA/AUTHOR/IPCP: Processing AV service=ppp
4d05h: As1 AAA/AUTHOR/IPCP: Processing AV protocol=ip
4d05h: As1 AAA/AUTHOR/IPCP: Processing AV inacl=101
4d05h: As1 AAA/AUTHOR/IPCP: Processing AV addr*1.1.1.2
4d05h: As1 AAA/AUTHOR/IPCP: Authorization succeeded
4d05h: As1 AAA/AUTHOR/IPCP: Done. Her address 1.1.1.2, we want 1.1.1.2
4d05h: %SEC-6-IPACCESSLOGDP: list 101 permitted icmp 1.1.1.2 ->
9.9.9.9 (0/0), 3 packets
koala#show ip access-lists
Extended IP access list 101
permit icmp 1.1.1.0 0.0.0.255 9.9.9.0 0.0.0.255 log (5 matches)
permit tcp 1.1.1.0 0.0.0.255 15.15.15.0 0.0.0.255 log (11 matches)
koala#
```

Definir listas de acesso no servidor

Observação: as instruções de rota não precisam ser passadas do servidor para o roteador. O usuário de discagem normalmente coleta as rotas do roteador. A presença das instruções de rota no roteador depende se as rotas são passadas pelo servidor ou retiradas do roteador:

```
ip route 9.9.9.0 255.255.255.0 11.11.11.12
ip route 15.15.15.0 255.255.255.0 12.12.12.13
```

Nesta configuração de exemplo, passar as rotas para baixo do servidor é apenas para fins de ilustração.

Configuração do roteador

```
Current configuration:
!
version 12.0
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
!
hostname koala
!
aaa new-model
!
!--- These three lines of the configuration !--- are
specific to Cisco IOS Software Release 12.0.5.T and
later. !--- See the Commands for Other IOS Releases
section for !--- commands for other Cisco IOS Software
releases. ! aaa authentication login default group
tacacs+ none
aaa authentication ppp default if-needed group tacacs+
aaa authorization network default group tacacs+
enable secret 5 $1$mnZQ$g6XdsgVnnYjEa.l7v.Pij1
enable password ww
!
username john password 0 doe
!
ip subnet-zero
!
cns event-service server
!
interface Ethernet0
ip address 10.31.1.5 255.255.255.0
no ip directed-broadcast
no mop enabled
```

```
!
interface Serial0
ip address 11.11.11.11 255.255.255.0
no ip directed-broadcast
no ip mroute-cache
no fair-queue
!
interface Serial1
ip address 12.12.12.12 255.255.255.0
no ip directed-broadcast
!
interface Async1
ip unnumbered Ethernet0
no ip directed-broadcast
encapsulation ppp
no ip route-cache
no ip mroute-cache
async mode dedicated
peer default ip address pool mypool
fair-queue 64 16 0
no cdp enable
ppp authentication chap
!
ip local pool mypool 1.1.1.1 1.1.1.5
ip classless
ip route 0.0.0.0 0.0.0.0 10.31.1.1
ip route 172.17.192.0 255.255.255.0 10.31.1.1
ip route 172.18.124.0 255.255.255.0 10.31.1.1
ip route 172.18.125.0 255.255.255.0 10.31.1.1
no ip http server
!
dialer-list 1 protocol ip permit
dialer-list 1 protocol ipx permit
!
tacacs-server host 172.18.124.111
tacacs-server key cisco
!
line con 0
transport input none
line 1
autoselect during-login
autoselect ppp
modem InOut
transport input all
stopbits 1
speed 115200
flowcontrol hardware
line 2 16
line aux 0
line vty 0 4
password ww
!
end
```

Comandos para outras versões de Cisco IOS

Observação: para usar esses comandos, remova os comandos em negrito da configuração do Roteador e cole esses comandos, conforme indicado pela sua versão do Cisco IOS Software.

Software Cisco IOS versão 11.3.3.T a 12.0.5.T

```
aaa authentication login default tacacs+ local
aaa authentication ppp default if-needed tacacs+ local
aaa authorization network default tacacs+
```

Software Cisco IOS versão 11.3 a 11.3.3.T

```
aaa authentication login default tacacs+
aaa authentication ppp default if-needed tacacs+
aaa authorization network tacacs+
```

Configuração do servidor - TACACS+ Freeware

```
user = chaprtr {
chap = cleartext chaprtr
service = ppp protocol = ip {
route#1 = "9.9.9.9 255.255.255.255 11.11.11.12"
route#2 = "15.15.15.15 255.255.255.255 12.12.12.13"
route#3 = "15.15.15.16 255.255.255.255 12.12.12.13"
inacl#1 = "permit icmp 1.1.1.0 0.0.0.255 9.9.9.0 0.0.0.255"
inacl#2 = "permit tcp 1.1.1.0 0.0.0.255 15.15.15.0 0.0.0.255"
}
}
```

Configuração do servidor - Cisco Secure UNIX - TACACS+

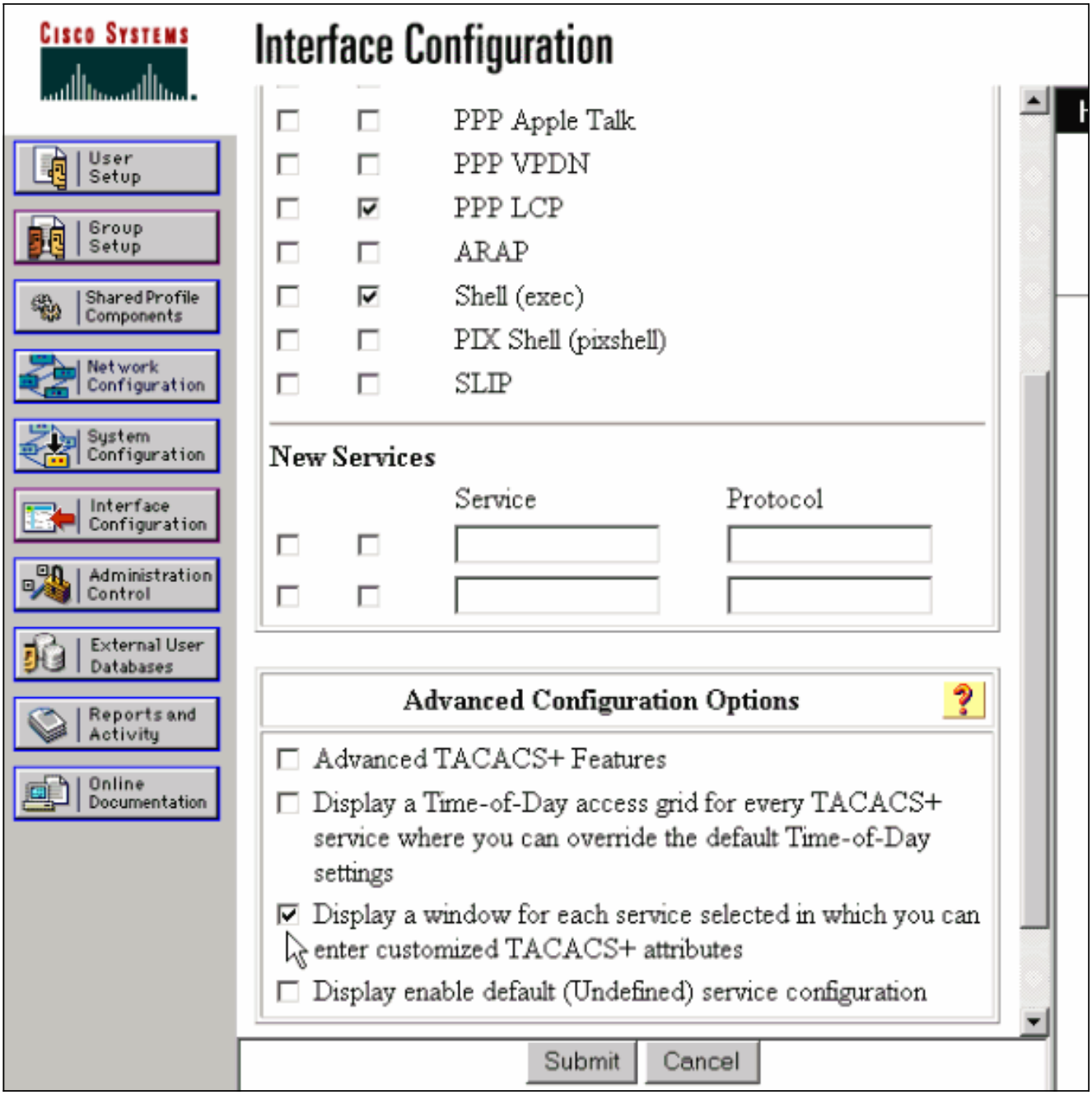
```
rtp-berry# ./ViewProfile -p 9900 -u chaprtr
User Profile Information
user = chaprtr{
profile_id = 183
set server current-failed-logins = 1
profile_cycle = 4
service=ppp {
protocol=lcp {
}
protocol=ip {
set route#1="9.9.9.9 255.255.255.255 11.11.11.12"
set route#2="15.15.15.15 255.255.255.255 12.12.12.13"
set route#3="15.15.15.16 255.255.255.255 12.12.12.13"
set inacl#1="permit icmp 1.1.1.0 0.0.0.255 9.9.9.0 0.0.0.255"
set inacl#2="permit tcp 1.1.1.0 0.0.0.255 15.15.15.0 0.0.0.255"
}
}

password = chap "chaprtr"
}
```

Configuração do servidor - Cisco Secure Windows 2.x - TACACS+

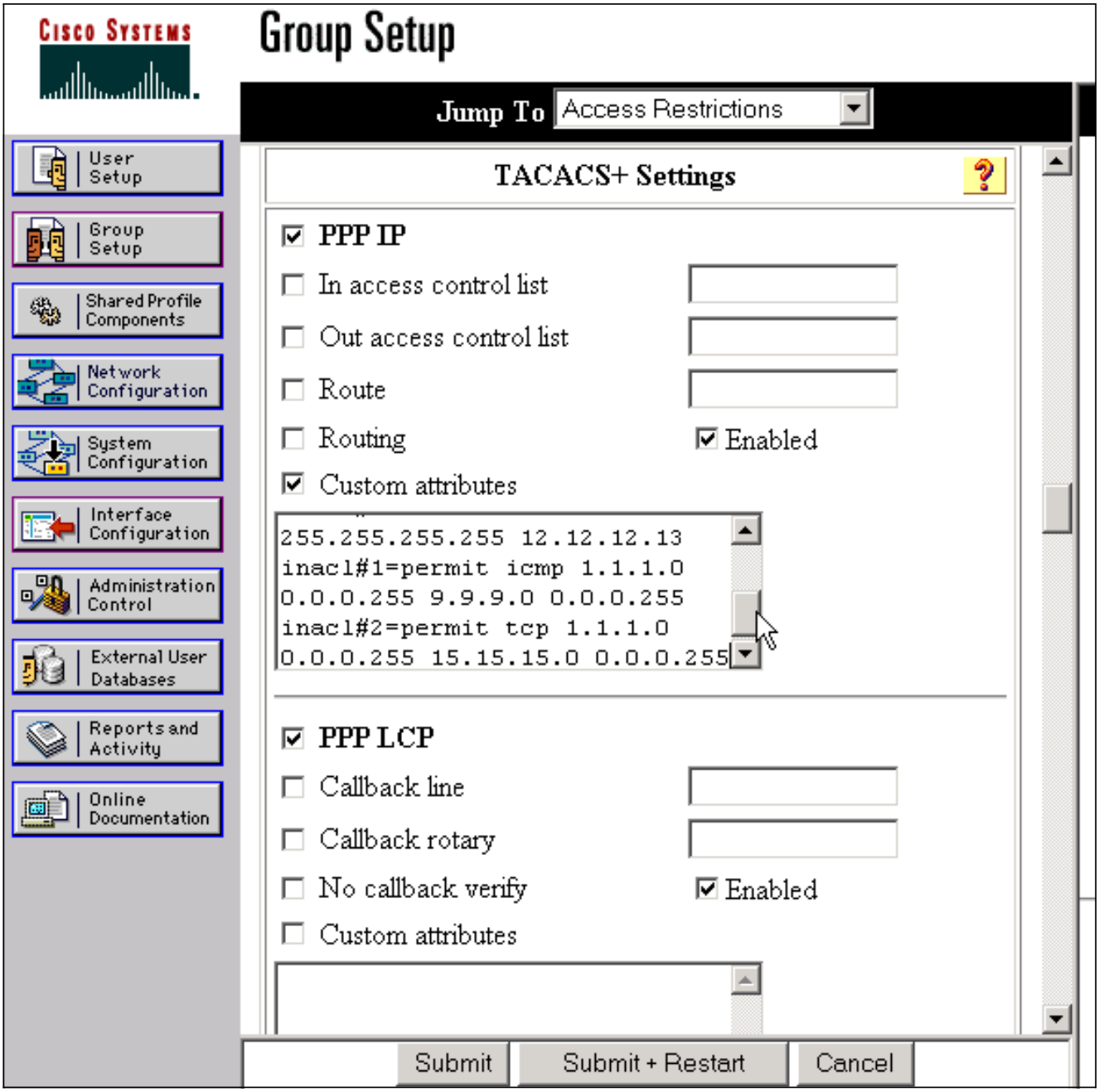
Conclua estes passos para configurar o Cisco Secure para Windows para passar ACLs para o NAS.

1. Clique em **Interface Configuration** e selecione **TACACS+ Cisco**.
2. Marque **Exibir uma janela para cada serviço selecionado na qual você pode inserir atributos TACACS+ personalizados** na seção 'Opções avançadas de configuração' e clique em **Enviar**.



3. Clique em **Group Setup**, selecione o grupo ao qual o usuário pertence e clique em **Edit Settings**.
4. Vá para a seção PPP IP e clique nas caixas de seleção **PPP IP**, **Custom Attributes** e **Enable** em TACACS+ Settings.Digite o texto mostrado aqui na caixa Atributos personalizados e clique em **Enviar**.

```
route#1=9.9.9.9 255.255.255.255 11.11.11.12
route#2=15.15.15.15 255.255.255.255 12.12.12.13
route#3=15.15.15.16 255.255.255.255 12.12.12.13
inacl#1=permit icmp 1.1.1.0 0.0.0.255 9.9.9.0 0.0.0.255
inacl#2=permit tcp 1.1.1.0 0.0.0.255 15.15.15.0 0.0.0.255
```



Debug de Exemplo de Roteador

Este perfil de usuário foi usado para criar esta saída de depuração.

```
chaprtr
{
login = cleartext cisco
chap = cleartext
chaprtr service = ppp
protocol = ip
{
route#1 = "9.9.9.9 255.255.255.255 11.11.11.12"
route#2 = "15.15.15.15 255.255.255.255 12.12.12.13"
route#3 = "15.15.15.16 255.255.255.255 12.12.12.13"
inacl#1 = "permit icmp 1.1.1.0 0.0.0.255 9.9.9.0 0.0.0.255"
inacl#2 = "permit tcp 1.1.1.0 0.0.0.255 15.15.15.0 0.0.0.255"
}
}
```

```
koala#
*Mar  1 01:22:39.963: As1 LCP: I CONFREQ [Closed] id 0 len 23
*Mar  1 01:22:39.967: As1 LCP:    ACCM 0x00000000 (0x020600000000)
*Mar  1 01:22:39.971: As1 LCP:    MagicNumber 0x000034BD (0x0506000034BD)
*Mar  1 01:22:39.971: As1 LCP:    PFC (0x0702)
*Mar  1 01:22:39.975: As1 LCP:    ACFC (0x0802)
*Mar  1 01:22:39.975: As1 LCP:    Callback 6  (0x0D0306)
*Mar  1 01:22:39.979: As1 LCP: Lower layer not up, Fast Starting
*Mar  1 01:22:39.983: As1 PPP: Treating connection as a dedicated line
*Mar  1 01:22:39.983: As1 PPP: Phase is ESTABLISHING, Active Open [0 sess, 0 load]
*Mar  1 01:22:39.987: As1 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
*Mar  1 01:22:39.991: As1 LCP: O CONFREQ [Closed] id 30 len 25
*Mar  1 01:22:39.995: As1 LCP:    ACCM 0x000A0000 (0x0206000A0000)
*Mar  1 01:22:39.999: As1 LCP:    AuthProto CHAP (0x0305C22305)
*Mar  1 01:22:40.003: As1 LCP:    MagicNumber 0xE069F1B8 (0x0506E069F1B8)
*Mar  1 01:22:40.003: As1 LCP:    PFC (0x0702)
*Mar  1 01:22:40.007: As1 LCP:    ACFC (0x0802)
*Mar  1 01:22:40.011: As1 LCP: O CONFREJ [REQsent] id 0 len 7
*Mar  1 01:22:40.011: As1 LCP:    Callback 6  (0x0D0306)
01:22:40: %LINK-3-UPDOWN: Interface Async1, changed state to up
*Mar  1 01:22:40.139: As1 LCP: I CONFACK [REQsent] id 30 len 25
*Mar  1 01:22:40.143: As1 LCP:    ACCM 0x000A0000 (0x0206000A0000)
*Mar  1 01:22:40.143: As1 LCP:    AuthProto CHAP (0x0305C22305)
*Mar  1 01:22:40.147: As1 LCP:    MagicNumber 0xE069F1B8 (0x0506E069F1B8)
*Mar  1 01:22:40.151: As1 LCP:    PFC (0x0702)
*Mar  1 01:22:40.151: As1 LCP:    ACFC (0x0802)
*Mar  1 01:22:40.155: As1 LCP: I CONFREQ [ACKrcvd] id 1 len 20
*Mar  1 01:22:40.159: As1 LCP:    ACCM 0x00000000 (0x020600000000)
*Mar  1 01:22:40.163: As1 LCP:    MagicNumber 0x000034BD (0x0506000034BD)
*Mar  1 01:22:40.163: As1 LCP:    PFC (0x0702)
*Mar  1 01:22:40.167: As1 LCP:    ACFC (0x0802)
*Mar  1 01:22:40.171: As1 LCP: O CONFACK [ACKrcvd] id 1 len 20
*Mar  1 01:22:40.171: As1 LCP:    ACCM 0x00000000 (0x020600000000)
*Mar  1 01:22:40.175: As1 LCP:    MagicNumber 0x000034BD (0x0506000034BD)
*Mar  1 01:22:40.179: As1 LCP:    PFC (0x0702)
*Mar  1 01:22:40.179: As1 LCP:    ACFC (0x0802)
*Mar  1 01:22:40.183: As1 LCP: State is Open
*Mar  1 01:22:40.183: As1 PPP: Phase is AUTHENTICATING, by this end
[0 sess, 1 load]
*Mar  1 01:22:40.187: As1 CHAP: O CHALLENGE id 10 len 26 from "koala"
*Mar  1 01:22:40.295: As1 LCP: I IDENTIFY [Open] id 2 len 18 magic
0x000034BD MSRASV4.00
*Mar  1 01:22:40.307: As1 LCP: I IDENTIFY [Open] id 3 len 21 magic
0x000034BD MSRAS-1-ZEKIE
*Mar  1 01:22:40.315: As1 CHAP: I RESPONSE id 10 len 28 from "chaprtr"
*Mar  1 01:22:40.323: AAA: parse name=Async1 idb type=10 tty=1
*Mar  1 01:22:40.323: AAA: name=Async1 flags=0x11 type=4 shelf=0 slot=0
adapter=0 port=1 channel=0
*Mar  1 01:22:40.327: AAA/MEMORY: create_user (0x4ED58C) user='chaprtr'
ruser='' port='Async1' rem_addr='async' authen_type=CHAP service=PPP
priv=1
*Mar  1 01:22:40.331: AAA/AUTHEN/START (2439833946): port='Async1'
list='' action=LOGIN service=PPP
*Mar  1 01:22:40.335: AAA/AUTHEN/START (2439833946): using "default" list
*Mar  1 01:22:40.339: AAA/AUTHEN (2439833946): status = UNKNOWN
*Mar  1 01:22:40.339: AAA/AUTHEN/START (2439833946): Method=tacacs+ (tacacs+)
*Mar  1 01:22:40.343: TAC+: send AUTHEN/START packet ver=193 id=2439833946
*Mar  1 01:22:40.347: TAC+: Using default tacacs server-group "tacacs+" list.
*Mar  1 01:22:40.347: TAC+: Opening TCP/IP to 172.18.124.111/49 timeout=5
*Mar  1 01:22:40.359: TAC+: Opened TCP/IP handle 0x4EDDF8 to 172.18.124.111/49
*Mar  1 01:22:40.367: TAC+: 172.18.124.111 (2439833946)
AUTHEN/START/LOGIN/CHAP queued
*Mar  1 01:22:40.667: TAC+: (2439833946) AUTHEN/START/LOGIN/CHAP processed
*Mar  1 01:22:40.671: TAC+: ver=192 id=2439833946 received AUTHEN
```

```
status = GETPASS
*Mar  1 01:22:40.675: TAC+: Closing TCP/IP 0x4EDDF8 connection to
172.18.124.111/49
*Mar  1 01:22:40.679: TAC+: Opening TCP/IP to 172.18.124.111/49 timeout=5
*Mar  1 01:22:40.695: TAC+: Opened TCP/IP handle 0x4EE23C to 172.18.124.111/49
*Mar  1 01:22:40.695: TAC+: Opened 172.18.124.111 index=1
*Mar  1 01:22:40.699: AAA: parse name=Async1 idb type=-1 tty=-1
*Mar  1 01:22:40.703: AAA: name=Async1 flags=0x11 type=4 shelf=0 slot=0
adapter=0 port=1 channel=0
*Mar  1 01:22:40.707: AAA/MEMORY: create_user (0x4EC300) user='chaprtr'
ruser='' port='Async1' rem_addr='async' authen_type=CHAP service=PPP priv=1
*Mar  1 01:22:40.711: TAC+: rev0 inbound chap for id=2439833946 using
id=1730351499
*Mar  1 01:22:40.715: TAC+: 172.18.124.111 (1730351499)
AUTHEN/START/SENDPASS/CHAP queued
*Mar  1 01:22:40.915: TAC+: (1730351499) AUTHEN/START/SENDPASS/CHAP processed
*Mar  1 01:22:40.919: TAC+: ver=192 id=1730351499 received AUTHEN
status = PASS
*Mar  1 01:22:40.923: TAC+: rev0 inbound chap SENDPASS status=PASS
for id=2439833946
*Mar  1 01:22:40.927: TAC+: rev0 inbound chap MD5 compare OK
*Mar  1 01:22:40.927: AAA/MEMORY: free_user (0x4EC300) user='chaprtr'
ruser='' port='Async1' rem_addr='async' authen_type=CHAP service=PPP
priv=1
*Mar  1 01:22:40.935: TAC+: Closing TCP/IP 0x4EE23C connection to
172.18.124.111/49
*Mar  1 01:22:40.939: AAA/AUTHEN (2439833946): status = PASS
*Mar  1 01:22:40.943: As1 AAA/AUTHOR/LCP: Authorize LCP
*Mar  1 01:22:40.947: As1 AAA/AUTHOR/LCP (4250537500): Port='Async1'
list='' service=NET
*Mar  1 01:22:40.947: AAA/AUTHOR/LCP: As1 (4250537500) user='chaprtr'
*Mar  1 01:22:40.951: As1 AAA/AUTHOR/LCP (4250537500): send AV service=ppp
*Mar  1 01:22:40.955: As1 AAA/AUTHOR/LCP (4250537500): send AV protocol=lcp
*Mar  1 01:22:40.955: As1 AAA/AUTHOR/LCP (4250537500): found list "default"
*Mar  1 01:22:40.959: As1 AAA/AUTHOR/LCP (4250537500):
Method=tacacs+ (tacacs+)
*Mar  1 01:22:40.963: AAA/AUTHOR/TAC+: (4250537500): user=chaprtr
*Mar  1 01:22:40.963: AAA/AUTHOR/TAC+: (4250537500): send AV service=ppp
*Mar  1 01:22:40.967: AAA/AUTHOR/TAC+: (4250537500): send AV protocol=lcp
*Mar  1 01:22:40.971: TAC+: using previously set server 172.18.124.111
from group tacacs+
*Mar  1 01:22:40.971: TAC+: Opening TCP/IP to 172.18.124.111/49 timeout=5
*Mar  1 01:22:40.987: TAC+: Opened TCP/IP handle 0x4EE680 to 172.18.124.111/49
*Mar  1 01:22:40.991: TAC+: Opened 172.18.124.111 index=1
*Mar  1 01:22:40.999: TAC+: 172.18.124.111 (4250537500) AUTHOR/START queued
*Mar  1 01:22:41.195: TAC+: (4250537500) AUTHOR/START processed
*Mar  1 01:22:41.199: TAC+: (4250537500): received author response
status = PASS_ADD
*Mar  1 01:22:41.203: TAC+: Closing TCP/IP 0x4EE680 connection to
172.18.124.111/49
*Mar  1 01:22:41.207: As1 AAA/AUTHOR (4250537500): Post authorization
status = PASS_ADD
*Mar  1 01:22:41.215: As1 CHAP: O SUCCESS id 10 len 4
*Mar  1 01:22:41.219: As1 PPP: Phase is UP [0 sess, 0 load]
*Mar  1 01:22:41.223: As1 AAA/AUTHOR/FSM: (0): Can we start IPCP?
*Mar  1 01:22:41.223: As1 AAA/AUTHOR/FSM (2403262371): Port='Async1'
list='' service=NET
*Mar  1 01:22:41.227: AAA/AUTHOR/FSM: As1 (2403262371) user='chaprtr'
*Mar  1 01:22:41.231: As1 AAA/AUTHOR/FSM (2403262371): send AV service=ppp
*Mar  1 01:22:41.231: As1 AAA/AUTHOR/FSM (2403262371): send AV protocol=ip
*Mar  1 01:22:41.235: As1 AAA/AUTHOR/FSM (2403262371): found list "default"
*Mar  1 01:22:41.239: As1 AAA/AUTHOR/FSM (2403262371):
Method=tacacs+ (tacacs+)
*Mar  1 01:22:41.239: AAA/AUTHOR/TAC+: (2403262371): user=chaprtr
```

```
*Mar  1 01:22:41.243: AAA/AUTHOR/TAC+: (2403262371): send AV service=ppp
*Mar  1 01:22:41.243: AAA/AUTHOR/TAC+: (2403262371): send AV protocol=ip
*Mar  1 01:22:41.247: TAC+: using previously set server 172.18.124.111
from group tacacs+
*Mar  1 01:22:41.251: TAC+: Opening TCP/IP to 172.18.124.111/49 timeout=5
*Mar  1 01:22:41.263: TAC+: Opened TCP/IP handle 0x4EEAC4 to
172.18.124.111/49
*Mar  1 01:22:41.267: TAC+: Opened 172.18.124.111 index=1
*Mar  1 01:22:41.275: TAC+: 172.18.124.111 (2403262371) AUTHOR/START queued
*Mar  1 01:22:41.323: As1 CCP: I CONFREQ [Not negotiated] id 4 len 12
*Mar  1 01:22:41.327: As1 CCP:    OUI  (0x0002)
*Mar  1 01:22:41.327: As1 CCP:    MS-PPC supported bits 0x00007080
(0x120600007080)
*Mar  1 01:22:41.335: As1 LCP: O PROTREJ [Open] id 31 len 18 protocol CCP
(0x80FD0104000C0002120600007080)
*Mar  1 01:22:41.339: As1 IPCP: I CONFREQ [Closed] id 5 len 40
*Mar  1 01:22:41.343: As1 IPCP:    CompressType VJ 15 slots CompressSlotID
(0x0206002D0F01)
*Mar  1 01:22:41.347: As1 IPCP:    Address 0.0.0.0 (0x030600000000)
*Mar  1 01:22:41.351: As1 IPCP:    PrimaryDNS 0.0.0.0 (0x810600000000)
*Mar  1 01:22:41.355: As1 IPCP:    PrimaryWINS 0.0.0.0 (0x820600000000)
*Mar  1 01:22:41.359: As1 IPCP:    SecondaryDNS 0.0.0.0 (0x830600000000)
*Mar  1 01:22:41.363: As1 IPCP:    SecondaryWINS 0.0.0.0 (0x840600000000)
*Mar  1 01:22:41.607: TAC+: (2403262371) AUTHOR/START processed
*Mar  1 01:22:41.623: TAC+: (2403262371): received author response
status = PASS_ADD
*Mar  1 01:22:41.627: TAC+: Closing TCP/IP 0x4EEAC4 connection to
172.18.124.111/49
*Mar  1 01:22:41.635: As1 AAA/AUTHOR (2403262371): Post authorization
status = PASS_ADD
*Mar  1 01:22:41.647: As1 AAA/AUTHOR/FSM: We can start IPCP
*Mar  1 01:22:41.651: As1 IPCP: O CONFREQ [Closed] id 7 len 10
*Mar  1 01:22:41.655: As1 IPCP:    Address 10.31.1.5 (0x03060A1F0105)
*Mar  1 01:22:41.659: As1 AAA/AUTHOR/FSM: (0): Can we start CDPCP?
*Mar  1 01:22:41.663: As1 AAA/AUTHOR/FSM (840307497): Port='Async1'
list='' service=NET
*Mar  1 01:22:41.667: AAA/AUTHOR/FSM: As1 (840307497) user='chaprtr'
*Mar  1 01:22:41.671: As1 AAA/AUTHOR/FSM (840307497): send AV service=ppp
*Mar  1 01:22:41.671: As1 AAA/AUTHOR/FSM (840307497): send AV protocol=cdp
*Mar  1 01:22:41.675: As1 AAA/AUTHOR/FSM (840307497): found list "default"
*Mar  1 01:22:41.675: As1 AAA/AUTHOR/FSM (840307497): Method=tacacs+
(tacacs+)
*Mar  1 01:22:41.679: AAA/AUTHOR/TAC+: (840307497): user=chaprtr
*Mar  1 01:22:41.683: AAA/AUTHOR/TAC+: (840307497): send AV service=ppp
*Mar  1 01:22:41.683: AAA/AUTHOR/TAC+: (840307497): send AV protocol=cdp
*Mar  1 01:22:41.687: TAC+: using previously set server 172.18.124.111
from group tacacs+
*Mar  1 01:22:41.691: TAC+: Opening TCP/IP to 172.18.124.111/49 timeout=5
*Mar  1 01:22:41.703: TAC+: Opened TCP/IP handle 0x4EE23C to
172.18.124.111/49
*Mar  1 01:22:41.707: TAC+: Opened 172.18.124.111 index=1
*Mar  1 01:22:41.715: TAC+: 172.18.124.111 (840307497) AUTHOR/START queued
*Mar  1 01:22:41.759: As1 IPCP: I CONFACK [REQsent] id 7 len 10
*Mar  1 01:22:41.763: As1 IPCP:    Address 10.31.1.5 (0x03060A1F0105)
*Mar  1 01:22:41.915: TAC+: (840307497) AUTHOR/START processed
*Mar  1 01:22:41.923: TAC+: (840307497): received author response
status = FAIL
*Mar  1 01:22:41.927: TAC+: Closing TCP/IP 0x4EE23C connection to
172.18.124.111/49
*Mar  1 01:22:41.931: As1 AAA/AUTHOR (840307497): Post authorization
status = FAIL
*Mar  1 01:22:41.935: As1 AAA/AUTHOR/FSM: We cannot start CDPCP
*Mar  1 01:22:41.935: As1 CDPCP: State is Closed
01:22:42: %LINEPROTO-5-UPDOWN: Line protocol on Interface Async1,
```

```
changed state to up
*Mar  1 01:22:42.359: As1 PPP: Outbound cdp packet dropped,
CDPCP is Closed [starting negotiations]
*Mar  1 01:22:42.359: As1 CDPCP: State is Closed
*Mar  1 01:22:42.499: As1 PPP: Outbound cdp packet dropped,
CDPCP is Closed [starting negotiations]
*Mar  1 01:22:42.503: As1 CDPCP: State is Closed
*Mar  1 01:22:42.639: As1 PPP: Outbound cdp packet dropped,
CDPCP is Closed [starting negotiations]
*Mar  1 01:22:42.643: As1 CDPCP: State is Closed
*Mar  1 01:22:42.795: As1 PPP: Outbound cdp packet dropped,
CDPCP is Closed [starting negotiations]
*Mar  1 01:22:42.799: As1 CDPCP: State is Closed
*Mar  1 01:22:43.147: As1 CDPCP: TIMEout: State Closed
*Mar  1 01:22:43.151: As1 CDPCP: State is Listen
*Mar  1 01:22:43.155: As1 IPCP: I CONFREQ [ACKrcvd] id 5 len 40
*Mar  1 01:22:43.159: As1 IPCP:    CompressType VJ 15 slots
CompressSlotID (0x0206002D0F01)
*Mar  1 01:22:43.163: As1 IPCP:    Address 0.0.0.0 (0x030600000000)
*Mar  1 01:22:43.167: As1 IPCP:    PrimaryDNS 0.0.0.0 (0x810600000000)
*Mar  1 01:22:43.171: As1 IPCP:    PrimaryWINS 0.0.0.0 (0x820600000000)
*Mar  1 01:22:43.171: As1 IPCP:    SecondaryDNS 0.0.0.0 (0x830600000000)
*Mar  1 01:22:43.175: As1 IPCP:    SecondaryWINS 0.0.0.0 (0x840600000000)
*Mar  1 01:22:43.179: As1 AAA/AUTHOR/IPCP: Start.  Her address 0.0.0.0,
we want 0.0.0.0
*Mar  1 01:22:43.183: As1 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar  1 01:22:43.187: As1 AAA/AUTHOR/IPCP: Processing AV protocol=ip
 !--- The NAS received the route statements and ACLs !--- from the ACS device. *Mar  1
01:22:43.187: As1 AAA/AUTHOR/IPCP: Processing AV route#1=
9.9.9.9 255.255.255.255 11.11.11.12
*Mar  1 01:22:43.191: As1 AAA/AUTHOR/IPCP: Processing AV route#2=
15.15.15.15 255.255.255.255 12.12.12.13
*Mar  1 01:22:43.195: As1 AAA/AUTHOR/IPCP: Processing AV route#3=
15.15.15.16 255.255.255.255 12.12.12.13
*Mar  1 01:22:43.199: As1 AAA/AUTHOR/IPCP: Processing AV inacl#1=
permit icmp 1.1.1.0 0.0.0.255 9.9.9.0 0.0.0.255
*Mar  1 01:22:43.199: As1 AAA/AUTHOR/IPCP: Processing AV inacl#2=
permit tcp 1.1.1.0 0.0.0.255 15.15.15.0 0.0.0.255
*Mar  1 01:22:43.203: As1 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar  1 01:22:43.207: As1 AAA/AUTHOR/IPCP: Done.  Her address 0.0.0.0,
we want 0.0.0.0
*Mar  1 01:22:43.211: As1 IPCP: Pool returned 1.1.1.1
*Mar  1 01:22:43.215: As1 IPCP: O CONFREJ [ACKrcvd] id 5 len 28
*Mar  1 01:22:43.219: As1 IPCP:    CompressType VJ 15 slots
CompressSlotID (0x0206002D0F01)
*Mar  1 01:22:43.223: As1 IPCP:    PrimaryWINS 0.0.0.0 (0x820600000000)
*Mar  1 01:22:43.227: As1 IPCP:    SecondaryDNS 0.0.0.0 (0x830600000000)
*Mar  1 01:22:43.231: As1 IPCP:    SecondaryWINS 0.0.0.0 (0x840600000000)
*Mar  1 01:22:43.339: As1 IPCP: I CONFREQ [ACKrcvd] id 6 len 16
*Mar  1 01:22:43.343: As1 IPCP:    Address 0.0.0.0 (0x030600000000)
*Mar  1 01:22:43.347: As1 IPCP:    PrimaryDNS 0.0.0.0 (0x810600000000)
*Mar  1 01:22:43.351: As1 AAA/AUTHOR/IPCP: Start.  Her address 0.0.0.0,
we want 1.1.1.1
*Mar  1 01:22:43.355: As1 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar  1 01:22:43.355: As1 AAA/AUTHOR/IPCP: Processing AV protocol=ip
!--- The NAS applies the route statements and ACLs. *Mar  1 01:22:43.359: As1 AAA/AUTHOR/IPCP:
Processing AV route#1=
9.9.9.9 255.255.255.255 11.11.11.12
*Mar  1 01:22:43.363: As1 AAA/AUTHOR/IPCP: Processing AV route#2=
15.15.15.15 255.255.255.255 12.12.12.13
*Mar  1 01:22:43.363: As1 AAA/AUTHOR/IPCP: Processing AV route#3=
15.15.15.16 255.255.255.255 12.12.12.13
*Mar  1 01:22:43.367: As1 AAA/AUTHOR/IPCP: Processing AV inacl#1=
permit icmp 1.1.1.0 0.0.0.255 9.9.9.0 0.0.0.255
```

```
*Mar  1 01:22:43.371: As1 AAA/AUTHOR/IPCP: Processing AV inacl#2=
permit tcp 1.1.1.0 0.0.0.255 15.15.15.0 0.0.0.255
*Mar  1 01:22:43.375: As1 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar  1 01:22:43.375: As1 AAA/AUTHOR/IPCP: Done.  Her address 0.0.0.0,
we want 1.1.1.1
*Mar  1 01:22:43.383: As1 IPCP: O CONFNAK [ACKrcvd] id 6 len 16
*Mar  1 01:22:43.387: As1 IPCP:    Address 1.1.1.1 (0x030601010101)
*Mar  1 01:22:43.391: As1 IPCP:    PrimaryDNS 172.18.125.3 (0x8106AC127D03)
*Mar  1 01:22:43.499: As1 IPCP: I CONFREQ [ACKrcvd] id 7 len 16
*Mar  1 01:22:43.503: As1 IPCP:    Address 1.1.1.1 (0x030601010101)
*Mar  1 01:22:43.507: As1 IPCP:    PrimaryDNS 172.18.125.3 (0x8106AC127D03)
*Mar  1 01:22:43.511: As1 AAA/AUTHOR/IPCP: Start.  Her address 1.1.1.1,
we want 1.1.1.1
*Mar  1 01:22:43.519: As1 AAA/AUTHOR/IPCP (2646570182): Port='Async1'
list='' service=NET
*Mar  1 01:22:43.519: AAA/AUTHOR/IPCP: As1 (2646570182) user='chaprtr'
*Mar  1 01:22:43.523: As1 AAA/AUTHOR/IPCP (2646570182): send AV service=ppp
*Mar  1 01:22:43.523: As1 AAA/AUTHOR/IPCP (2646570182): send AV protocol=ip
*Mar  1 01:22:43.527: As1 AAA/AUTHOR/IPCP (2646570182): send AV addr*1.1.1.1
*Mar  1 01:22:43.531: As1 AAA/AUTHOR/IPCP (2646570182): found list "default"
*Mar  1 01:22:43.535: As1 AAA/AUTHOR/IPCP (2646570182): Method=tacacs+ (tacacs+)
*Mar  1 01:22:43.539: AAA/AUTHOR/TAC+: (2646570182): user=chaprtr
*Mar  1 01:22:43.539: AAA/AUTHOR/TAC+: (2646570182): send AV service=ppp
*Mar  1 01:22:43.543: AAA/AUTHOR/TAC+: (2646570182): send AV protocol=ip
*Mar  1 01:22:43.543: AAA/AUTHOR/TAC+: (2646570182): send AV addr*1.1.1.1
*Mar  1 01:22:43.547: TAC+: using previously set server 172.18.124.111 from
group tacacs+
*Mar  1 01:22:43.551: TAC+: Opening TCP/IP to 172.18.124.111/49 timeout=5
*Mar  1 01:22:43.563: TAC+: Opened TCP/IP handle 0x4EE23C to 172.18.124.111/49
*Mar  1 01:22:43.567: TAC+: Opened 172.18.124.111 index=1
*Mar  1 01:22:43.575: TAC+: 172.18.124.111 (2646570182) AUTHOR/START queued
*Mar  1 01:22:43.875: TAC+: (2646570182) AUTHOR/START processed
*Mar  1 01:22:43.887: TAC+: (2646570182): received author response
status = PASS_REPL
*Mar  1 01:22:43.891: TAC+: Closing TCP/IP 0x4EE23C connection to
172.18.124.111/49
*Mar  1 01:22:43.899: As1 AAA/AUTHOR (2646570182): Post authorization
status = PASS_REPL
*Mar  1 01:22:43.911: As1 AAA/AUTHOR/IPCP: Reject 1.1.1.1, using 1.1.1.1
*Mar  1 01:22:43.915: As1 AAA/AUTHOR/IPCP: Processing AV service=ppp
*Mar  1 01:22:43.919: As1 AAA/AUTHOR/IPCP: Processing AV protocol=ip
*Mar  1 01:22:43.923: As1 AAA/AUTHOR/IPCP: Processing AV route#1=
9.9.9.9 255.255.255.255 11.11.11.12
*Mar  1 01:22:43.923: As1 AAA/AUTHOR/IPCP: Processing AV route#2=
15.15.15.15 255.255.255.255 12.12.12.13
*Mar  1 01:22:43.927: As1 AAA/AUTHOR/IPCP: Processing AV route#3=
15.15.15.16 255.255.255.255 12.12.12.13
*Mar  1 01:22:43.931: As1 AAA/AUTHOR/IPCP: Processing AV inacl#1=
permit icmp 1.1.1.0 0.0.0.255 9.9.9.0 0.0.0.255
*Mar  1 01:22:43.935: As1 AAA/AUTHOR/IPCP: Processing AV inacl#2=
permit tcp 1.1.1.0 0.0.0.255 15.15.15.0 0.0.0.255
*Mar  1 01:22:43.939: As1 AAA/AUTHOR/IPCP: Processing AV addr*1.1.1.1
*Mar  1 01:22:43.939: As1 AAA/AUTHOR/IPCP: Authorization succeeded
*Mar  1 01:22:43.943: As1 AAA/AUTHOR/IPCP: Done.  Her address 1.1.1.1,
we want 1.1.1.1
*Mar  1 01:22:43.947: As1 IPCP: O CONFACK [ACKrcvd] id 7 len 16
*Mar  1 01:22:43.951: As1 IPCP:    Address 1.1.1.1 (0x030601010101)
*Mar  1 01:22:43.955: As1 IPCP:    PrimaryDNS 172.18.125.3
(0x8106AC127D03)
*Mar  1 01:22:43.959: As1 IPCP: State is Open
*Mar  1 01:22:44.483: As1 IPCP: Install route to 1.1.1.1
koala#
koala#
```

Verificar

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

Troubleshoot

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

Comandos para Troubleshooting

A Output Interpreter Tool (somente clientes registrados) (OIT) oferece suporte a determinados comandos show. Use a OIT para exibir uma análise da saída do comando show.

Nota:Consulte Informações Importantes sobre Comandos de Depuração antes de usar comandos debug.

- **debug aaa authentication — Exibe informações sobre autenticação AAA/TACACS+**
- **debug aaa authorization** — Exibe informações sobre a autorização AAA/TACACS+.
- **debug aaa per-user** —Exibe informações sobre as configurações por usuário no roteador ou nos servidores de acesso que são enviados de um servidor AAA.
- **debug tacacs+** — Exibe informações detalhadas de depuração associadas ao TACACS+.
- **debug ppp negotiation** — Exibe os pacotes PPP transmitidos durante a inicialização do PPP, onde as opções do PPP são negociadas.

Consulte Troubleshooting de Listas de Acesso em Interfaces de Discagem para obter informações sobre troubleshooting.

Informações Relacionadas

- Cisco Secure Access Control Server for Unix
- Cisco Secure Access Control Server for Windows