

Como configurar o SSH nos Catalyst Switches que executam CatOS

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[Introdução](#)

Este documento oferece instruções passo a passo para configurar o Secure Shell (SSH) Version 1 nos switches Catalyst que executam o Catalyst OS (CatOS). A versão testada é cat6000-supk9.6-1-1c.bin.

[Pré-requisitos](#)

[Requisitos](#)

Esta tabela mostra o estado do apoio SSH no Switches. Os usuários registrados podem alcançar estas imagens do software visitando o [centro de software](#).

Cactos SSH	
Dispositivo	Apoio SSH

Gato 4000/4500/2948G/2980G (Cactos)	Imagens K9 até à data de 6.1
Gato 5000/5500 (Cactos)	Imagens K9 até à data de 6.1
Gato 6000/6500 (Cactos)	Imagens K9 até à data de 6.1
IO SSH	
Dispositivo	Apoio SSH
Gato 2950*	12.1(12c)EA1 e mais tarde
Gato 3550*	12.1(11)EA1 e mais tarde
Gato 4000/4500 (software do Cisco IOS integrado) *	12.1(13)EW e mais tarde **
Gato 6000/5500 (software do Cisco IOS integrado) *	12.1(11b)E e mais tarde
Gato 8540/8510	12.1(12c)EY e mais tarde, 12.1(14)E1 e mais tarde
Nenhum SSH	
Dispositivo	Apoio SSH
Gato 1900	não
Gato 2800	não
Gato 2948G-L3	não
Gato 2900XL	não
Gato 3500XL	não
Gato 4840G-L3	não
Gato 4908G-L3	não

* A configuração é coberta no [Configuring Secure Shell no Roteadores e no Switches que executam o Cisco IOS](#).

** Não há nenhum apoio para o SSH no trem 12.1E para software running do Cisco IOS integrado do catalizador 4000.

Refira o [formulário da autorização da distribuição da exportação do software de codificação](#) a fim aplicar-se para o 3DES.

Este documento supõe que a autenticação trabalha antes da aplicação do SSH (com a senha telnet, TACACS+) ou do RAIO. O SSH com Kerberos não é apoiado antes da aplicação do SSH.

Componentes Utilizados

Este documento endereça o 4000/4500 Series somente do Catalyst 2948G, do Catalyst 2980G, do catalizador, a série do Catalyst 5000/5500, e a série do Catalyst 6000/6500 que executa a imagem de Cactos K9. Para mais detalhes, refira a seção das [exigências](#) deste documento.

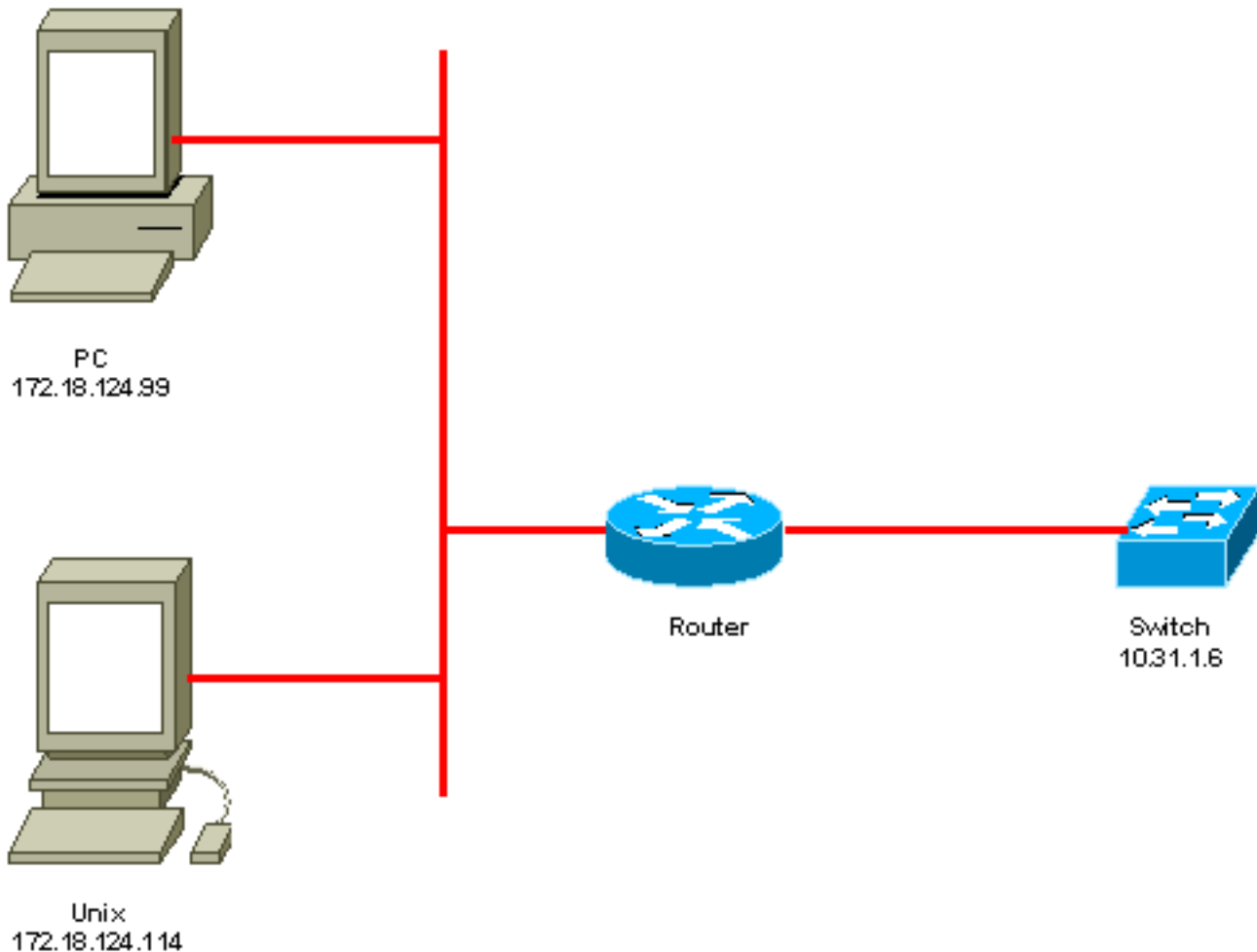
As informações neste documento foram criadas a partir de dispositivos em um ambiente de laboratório específico. Todos os dispositivos utilizados neste documento foram iniciados com uma configuração (padrão) inicial. Se você estiver trabalhando em uma rede ativa, certifique-se de que

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](#).

Diagrama de Rede



Configuração do Switch

```
!--- Generate and verify RSA key. sec-cat6000> (enable) set crypto key rsa 1024
Generating RSA keys..... [OK]
sec-cat6000> (enable) ssh_key_process: host/server key size: 1024/768
!--- Display the RSA key. sec-cat6000> (enable) show crypto key
RSA keys were generated at: Mon Jul 23 2001, 15:03:30 1024 65537 1514414695360
577332853671704785709850606634768746869716963940352440620678575338701550888525
699691478330537840066956987610207810959498648179965330018010844785863472773067
697185256418386243001881008830561241137381692820078674376058275573133448529332
1996682019301329470978268059063378215479385405498193061651
!--- Restrict which host/subnets are allowed to use SSH to the switch. !--- Note: If you do not
do this, the switch will display the message !--- "WARNING!! IP permit list has no entries!"
sec-cat6000> set ip permit 172.18.124.0 255.255.255.0
```

```

172.18.124.0 with mask 255.255.255.0 added to IP permit list.
!--- Turn on SSH. sec-cat6000> (enable) set ip permit enable ssh
SSH permit list enabled.
!--- Verity SSH permit list. sec-cat6000> (enable) show ip permit
Telnet permit list disabled.
Ssh permit list enabled.
Snmp permit list disabled.
Permit List Mask Access-Type
-----
172.18.124.0 255.255.255.0 telnet ssh snmp

Denied IP Address Last Accessed Time Type
-----

```

SSH de desabilitação

Em algumas situações pode ser necessário desabilitar o SSH no interruptor. Você deve verificar se o SSH está configurado no interruptor e em caso afirmativo, desabilita-o.

Para verificar se o SSH foi configurado no interruptor, emita o comando **show crypto key**. Se a saída indica a chave RSA, a seguir o SSH esteve configurado e permitido no interruptor. Um exemplo é mostrado aqui.

```

sec-cat6000> (enable) show crypto key
RSA keys were generated at: Mon Jul 23 2001, 15:03:30 1024 65537 1514414695360
577332853671704785709850606634768746869716963940352440620678575338701550888525
699691478330537840066956987610207810959498648179965330018010844785863472773067
697185256418386243001881008830561241137381692820078674376058275573133448529332
1996682019301329470978268059063378215479385405498193061651

```

Para remover a chave de criptografia, emita o comando **clear crypto key rsa** desabilitar o SSH no interruptor. Um exemplo é mostrado aqui.

```

sec-cat6000> (enable) clear crypto key rsa
Do you really want to clear RSA keys (y/n) [n]? y
RSA keys has been cleared.
sec-cat6000> (enable)

```

debug no Catalyst

Para girar sobre debuga, emitem o comando **set trace ssh 4**.

Para desligar debuga, emitem o comando **set trace ssh 0**.

Exemplos de comando debug de uma boa conexão

Senha Solaris para Catalyst, 3DES (Triple Data Encryption Standard), Telnet

Solaris

```

rtp-evergreen# ssh -c 3des -v 10.31.1.6
SSH Version 1.2.26 [sparc-sun-solaris2.5.1], protocol version 1.5.
Compiled with RSAREF.
rtp-evergreen: Reading configuration data /opt/CISssh/etc/ssh_config
rtp-evergreen: ssh_connect: getuid 0 geteuid 0 anon 0
rtp-evergreen: Allocated local port 1023.
rtp-evergreen: Connecting to 10.31.1.6 port 22.

```

```
rtp-evergreen: Connection established.
rtp-evergreen: Remote protocol version 1.5, remote software version 1.2.26
rtp-evergreen: Waiting for server public key.
rtp-evergreen: Received server public key (768 bits) and host key (1024 bits).
Host key not found from the list of known hosts.
Are you sure you want to continue connecting (yes/no)? yes
Host '10.31.1.6' added to the list of known hosts.
rtp-evergreen: Initializing random; seed file //.ssh/random_seed
rtp-evergreen: Encryption type: 3des
rtp-evergreen: Sent encrypted session key.
rtp-evergreen: Installing crc compensation attack detector.
rtp-evergreen: Received encrypted confirmation.
rtp-evergreen: Doing password authentication.
root@10.31.1.6's password:
rtp-evergreen: Requesting pty.
rtp-evergreen: Failed to get local xauth data.
rtp-evergreen: Requesting X11 forwarding with authentication spoofing.
Warning: Remote host denied X11 forwarding, perhaps xauth program
could not be run on the server side.
rtp-evergreen: Requesting shell.
rtp-evergreen: Entering interactive session.
```

Cisco Systems Console

```
sec-cat6000>
```

[Catalyst](#)

```
rtp-evergreen# ssh -c 3des -v 10.31.1.6
SSH Version 1.2.26 [sparc-sun-solaris2.5.1], protocol version 1.5.
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rtp-evergreen: Reading configuration data /opt/CISssh/etc/ssh_config
rtp-evergreen: ssh_connect: getuid 0 geteuid 0 anon 0
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rtp-evergreen: Connecting to 10.31.1.6 port 22.
rtp-evergreen: Connection established.
rtp-evergreen: Remote protocol version 1.5, remote software version 1.2.26
rtp-evergreen: Waiting for server public key.
rtp-evergreen: Received server public key (768 bits) and host key (1024 bits).
Host key not found from the list of known hosts.
Are you sure you want to continue connecting (yes/no)? yes
Host '10.31.1.6' added to the list of known hosts.
rtp-evergreen: Initializing random; seed file //.ssh/random_seed
rtp-evergreen: Encryption type: 3des
rtp-evergreen: Sent encrypted session key.
rtp-evergreen: Installing crc compensation attack detector.
rtp-evergreen: Received encrypted confirmation.
rtp-evergreen: Doing password authentication.
root@10.31.1.6's password:
rtp-evergreen: Requesting pty.
rtp-evergreen: Failed to get local xauth data.
rtp-evergreen: Requesting X11 forwarding with authentication spoofing.
Warning: Remote host denied X11 forwarding, perhaps xauth program
could not be run on the server side.
rtp-evergreen: Requesting shell.
rtp-evergreen: Entering interactive session.
```

Cisco Systems Console

```
sec-cat6000>
```

[PC para Catalyst, 3DES, senha Telnet](#)

[Catalyst](#)

```
rtp-evergreen# ssh -c 3des -v 10.31.1.6
SSH Version 1.2.26 [sparc-sun-solaris2.5.1], protocol version 1.5.
Compiled with RSAREF.
rtp-evergreen: Reading configuration data /opt/CISssh/etc/ssh_config
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rtp-evergreen: Allocated local port 1023.
rtp-evergreen: Connecting to 10.31.1.6 port 22.
rtp-evergreen: Connection established.
rtp-evergreen: Remote protocol version 1.5, remote software version 1.2.26
rtp-evergreen: Waiting for server public key.
rtp-evergreen: Received server public key (768 bits) and host key (1024 bits).
Host key not found from the list of known hosts.
Are you sure you want to continue connecting (yes/no)? yes
Host '10.31.1.6' added to the list of known hosts.
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rtp-evergreen: Sent encrypted session key.
rtp-evergreen: Installing crc compensation attack detector.
rtp-evergreen: Received encrypted confirmation.
rtp-evergreen: Doing password authentication.
root@10.31.1.6's password:
rtp-evergreen: Requesting pty.
rtp-evergreen: Failed to get local xauth data.
rtp-evergreen: Requesting X11 forwarding with authentication spoofing.
Warning: Remote host denied X11 forwarding, perhaps xauth program
could not be run on the server side.
rtp-evergreen: Requesting shell.
rtp-evergreen: Entering interactive session.
```

Cisco Systems Console

sec-cat6000>

[Autenticação Solaris para Catalyst, 3DES e AAA \(autenticação, autorização e relatório\)](#)

[Solaris](#)

Solaris with aaa on:

```
rtp-evergreen# ssh -c 3des -l abcde123 -v 10.31.1.6
SSH Version 1.2.26 [sparc-sun-solaris2.5.1], protocol version 1.5.
Compiled with RSAREF.
rtp-evergreen: Reading configuration data /opt/CISssh/etc/ssh_config
rtp-evergreen: ssh_connect: getuid 0 geteuid 0 anon 0
rtp-evergreen: Allocated local port 1023.
rtp-evergreen: Connecting to 10.31.1.6 port 22.
rtp-evergreen: Connection established.
rtp-evergreen: Remote protocol version 1.5, remote software version 1.2.26
rtp-evergreen: Waiting for server public key.
rtp-evergreen: Received server public key (768 bits) and host key (1024 bits).
rtp-evergreen: Host '10.31.1.6' is known and matches the host key.
rtp-evergreen: Initializing random; seed file //.ssh/random_seed
rtp-evergreen: Encryption type: 3des
rtp-evergreen: Sent encrypted session key.
rtp-evergreen: Installing crc compensation attack detector.
rtp-evergreen: Received encrypted confirmation.
rtp-evergreen: Doing password authentication.
abcde123@10.31.1.6's password:
rtp-evergreen: Requesting pty.
rtp-evergreen: Failed to get local xauth data.
rtp-evergreen: Requesting X11 forwarding with authentication spoofing.
Warning: Remote host denied X11 forwarding, perhaps xauth program
```

```
could not be run on the server side.
rtp-evergreen: Requesting shell.
rtp-evergreen: Entering interactive session.
```

Cisco Systems Console

```
sec-cat6000>
```

Catalyst

Solaris with aaa on:

```
rtp-evergreen# ssh -c 3des -l abcde123 -v 10.31.1.6
SSH Version 1.2.26 [sparc-sun-solaris2.5.1], protocol version 1.5.
Compiled with RSAREF.
rtp-evergreen: Reading configuration data /opt/CISssh/etc/ssh_config
rtp-evergreen: ssh_connect: getuid 0 geteuid 0 anon 0
rtp-evergreen: Allocated local port 1023.
rtp-evergreen: Connecting to 10.31.1.6 port 22.
rtp-evergreen: Connection established.
rtp-evergreen: Remote protocol version 1.5, remote software version 1.2.26
rtp-evergreen: Waiting for server public key.
rtp-evergreen: Received server public key (768 bits) and host key (1024 bits).
rtp-evergreen: Host '10.31.1.6' is known and matches the host key.
rtp-evergreen: Initializing random; seed file //.ssh/random_seed
rtp-evergreen: Encryption type: 3des
rtp-evergreen: Sent encrypted session key.
rtp-evergreen: Installing crc compensation attack detector.
rtp-evergreen: Received encrypted confirmation.
rtp-evergreen: Doing password authentication.
abcde123@10.31.1.6's password:
rtp-evergreen: Requesting pty.
rtp-evergreen: Failed to get local xauth data.
rtp-evergreen: Requesting X11 forwarding with authentication spoofing.
Warning: Remote host denied X11 forwarding, perhaps xauth program
could not be run on the server side.
rtp-evergreen: Requesting shell.
rtp-evergreen: Entering interactive session.
```

Cisco Systems Console

```
sec-cat6000>
```

Exemplos do que pode dar errado com o comando debug

Depuração Catalyst com cliente tentando cifra Blowfish (não suportado)

Solaris with aaa on:

```
rtp-evergreen# ssh -c 3des -l abcde123 -v 10.31.1.6
SSH Version 1.2.26 [sparc-sun-solaris2.5.1], protocol version 1.5.
Compiled with RSAREF.
rtp-evergreen: Reading configuration data /opt/CISssh/etc/ssh_config
rtp-evergreen: ssh_connect: getuid 0 geteuid 0 anon 0
rtp-evergreen: Allocated local port 1023.
rtp-evergreen: Connecting to 10.31.1.6 port 22.
rtp-evergreen: Connection established.
rtp-evergreen: Remote protocol version 1.5, remote software version 1.2.26
rtp-evergreen: Waiting for server public key.
rtp-evergreen: Received server public key (768 bits) and host key (1024 bits).
rtp-evergreen: Host '10.31.1.6' is known and matches the host key.
rtp-evergreen: Initializing random; seed file //.ssh/random_seed
rtp-evergreen: Encryption type: 3des
rtp-evergreen: Sent encrypted session key.
rtp-evergreen: Installing crc compensation attack detector.
```

```
rtp-evergreen: Received encrypted confirmation.
rtp-evergreen: Doing password authentication.
abcde123@10.31.1.6's password:
rtp-evergreen: Requesting pty.
rtp-evergreen: Failed to get local xauth data.
rtp-evergreen: Requesting X11 forwarding with authentication spoofing.
Warning: Remote host denied X11 forwarding, perhaps xauth program
could not be run on the server side.
rtp-evergreen: Requesting shell.
rtp-evergreen: Entering interactive session.
```

Cisco Systems Console

```
sec-cat6000>
```

[Depuração do Catalyst com Senha de Telnet Inválida](#)

Solaris with aaa on:

```
rtp-evergreen# ssh -c 3des -l abcde123 -v 10.31.1.6
SSH Version 1.2.26 [sparc-sun-solaris2.5.1], protocol version 1.5.
Compiled with RSAREF.
rtp-evergreen: Reading configuration data /opt/CISssh/etc/ssh_config
rtp-evergreen: ssh_connect: getuid 0 geteuid 0 anon 0
rtp-evergreen: Allocated local port 1023.
rtp-evergreen: Connecting to 10.31.1.6 port 22.
rtp-evergreen: Connection established.
rtp-evergreen: Remote protocol version 1.5, remote software version 1.2.26
rtp-evergreen: Waiting for server public key.
rtp-evergreen: Received server public key (768 bits) and host key (1024 bits).
rtp-evergreen: Host '10.31.1.6' is known and matches the host key.
rtp-evergreen: Initializing random; seed file //.ssh/random_seed
rtp-evergreen: Encryption type: 3des
rtp-evergreen: Sent encrypted session key.
rtp-evergreen: Installing crc compensation attack detector.
rtp-evergreen: Received encrypted confirmation.
rtp-evergreen: Doing password authentication.
abcde123@10.31.1.6's password:
rtp-evergreen: Requesting pty.
rtp-evergreen: Failed to get local xauth data.
rtp-evergreen: Requesting X11 forwarding with authentication spoofing.
Warning: Remote host denied X11 forwarding, perhaps xauth program
could not be run on the server side.
rtp-evergreen: Requesting shell.
rtp-evergreen: Entering interactive session.
```

Cisco Systems Console

```
sec-cat6000>
```

[Depuração do Catalyst com autenticação de AAA inválida](#)

Solaris with aaa on:

```
rtp-evergreen# ssh -c 3des -l abcde123 -v 10.31.1.6
SSH Version 1.2.26 [sparc-sun-solaris2.5.1], protocol version 1.5.
Compiled with RSAREF.
rtp-evergreen: Reading configuration data /opt/CISssh/etc/ssh_config
rtp-evergreen: ssh_connect: getuid 0 geteuid 0 anon 0
rtp-evergreen: Allocated local port 1023.
rtp-evergreen: Connecting to 10.31.1.6 port 22.
rtp-evergreen: Connection established.
rtp-evergreen: Remote protocol version 1.5, remote software version 1.2.26
rtp-evergreen: Waiting for server public key.
rtp-evergreen: Received server public key (768 bits) and host key (1024 bits).
rtp-evergreen: Host '10.31.1.6' is known and matches the host key.
```



```
rtp-evergreen: Initializing random; seed file //.ssh/random_seed
rtp-evergreen: Encryption type: 3des
rtp-evergreen: Sent encrypted session key.
rtp-evergreen: Installing crc compensation attack detector.
rtp-evergreen: Received encrypted confirmation.
rtp-evergreen: Doing password authentication.
abcde123@10.31.1.6's password:
rtp-evergreen: Requesting pty.
rtp-evergreen: Failed to get local xauth data.
rtp-evergreen: Requesting X11 forwarding with authentication spoofing.
Warning: Remote host denied X11 forwarding, perhaps xauth program
could not be run on the server side.
rtp-evergreen: Requesting shell.
rtp-evergreen: Entering interactive session.
```

Cisco Systems Console

sec-cat6000>

Troubleshooting

Esta seção trata os cenários de Troubleshooting diferentes relativos à configuração SSH em switch Cisco.

Não pode conectar para comutar com o SSH

Problema:

Não pode conectar ao interruptor usando o SSH.

O comando do **debug ip ssh** mostra esta saída:

```
Solaris with aaa on:
rtp-evergreen# ssh -c 3des -l abcde123 -v 10.31.1.6
SSH Version 1.2.26 [sparc-sun-solaris2.5.1], protocol version 1.5.
Compiled with RSAREF.
rtp-evergreen: Reading configuration data /opt/CISssh/etc/ssh_config
rtp-evergreen: ssh_connect: getuid 0 geteuid 0 anon 0
rtp-evergreen: Allocated local port 1023.
rtp-evergreen: Connecting to 10.31.1.6 port 22.
rtp-evergreen: Connection established.
rtp-evergreen: Remote protocol version 1.5, remote software version 1.2.26
rtp-evergreen: Waiting for server public key.
rtp-evergreen: Received server public key (768 bits) and host key (1024 bits).
rtp-evergreen: Host '10.31.1.6' is known and matches the host key.
rtp-evergreen: Initializing random; seed file //.ssh/random_seed
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rtp-evergreen: Sent encrypted session key.
rtp-evergreen: Installing crc compensation attack detector.
rtp-evergreen: Received encrypted confirmation.
rtp-evergreen: Doing password authentication.
abcde123@10.31.1.6's password:
rtp-evergreen: Requesting pty.
rtp-evergreen: Failed to get local xauth data.
rtp-evergreen: Requesting X11 forwarding with authentication spoofing.
Warning: Remote host denied X11 forwarding, perhaps xauth program
could not be run on the server side.
rtp-evergreen: Requesting shell.
rtp-evergreen: Entering interactive session.
```

Cisco Systems Console

sec-cat6000>

Solução:

Este problema ocorre devido a qualquer uma destas razões:

- As conexões de SSH novas falham após ter mudado o hostname.
- SSH configurado com chaves NON-etiquetadas (tendo o FQDN do roteador).

As ações alternativas para este problema são:

- Se o hostname foi mudado e o SSH já não está trabalhando, a seguir coloque a zero a chave nova e crie uma outra chave nova com a etiqueta apropriada.

```
Solaris with aaa on:
rtp-evergreen# ssh -c 3des -l abcde123 -v 10.31.1.6
SSH Version 1.2.26 [sparc-sun-solaris2.5.1], protocol version 1.5.
Compiled with RSAREF.
rtp-evergreen: Reading configuration data /opt/CISssh/etc/ssh_config
rtp-evergreen: ssh_connect: getuid 0 geteuid 0 anon 0
rtp-evergreen: Allocated local port 1023.
rtp-evergreen: Connecting to 10.31.1.6 port 22.
rtp-evergreen: Connection established.
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rtp-evergreen: Waiting for server public key.
rtp-evergreen: Received server public key (768 bits) and host key (1024 bits).
rtp-evergreen: Host '10.31.1.6' is known and matches the host key.
rtp-evergreen: Initializing random; seed file //.ssh/random_seed
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rtp-evergreen: Sent encrypted session key.
rtp-evergreen: Installing crc compensation attack detector.
rtp-evergreen: Received encrypted confirmation.
rtp-evergreen: Doing password authentication.
abcde123@10.31.1.6's password:
rtp-evergreen: Requesting pty.
rtp-evergreen: Failed to get local xauth data.
rtp-evergreen: Requesting X11 forwarding with authentication spoofing.
Warning: Remote host denied X11 forwarding, perhaps xauth program
could not be run on the server side.
rtp-evergreen: Requesting shell.
rtp-evergreen: Entering interactive session.
```

Cisco Systems Console

sec-cat6000>

- Não use as chaves anônimas RSA (nomeadas após o FQDN do interruptor). Use chaves etiquetadas pelo contrário.

```
Solaris with aaa on:
rtp-evergreen# ssh -c 3des -l abcde123 -v 10.31.1.6
SSH Version 1.2.26 [sparc-sun-solaris2.5.1], protocol version 1.5.
Compiled with RSAREF.
rtp-evergreen: Reading configuration data /opt/CISssh/etc/ssh_config
rtp-evergreen: ssh_connect: getuid 0 geteuid 0 anon 0
rtp-evergreen: Allocated local port 1023.
rtp-evergreen: Connecting to 10.31.1.6 port 22.
rtp-evergreen: Connection established.
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rtp-evergreen: Waiting for server public key.
rtp-evergreen: Received server public key (768 bits) and host key (1024 bits).
rtp-evergreen: Host '10.31.1.6' is known and matches the host key.
rtp-evergreen: Initializing random; seed file //.ssh/random_seed
rtp-evergreen: Encryption type: 3des
rtp-evergreen: Sent encrypted session key.
```

```
rtp-evergreen: Installing crc compensation attack detector.  
rtp-evergreen: Received encrypted confirmation.  
rtp-evergreen: Doing password authentication.  
abcde123@10.31.1.6's password:  
rtp-evergreen: Requesting pty.  
rtp-evergreen: Failed to get local xauth data.  
rtp-evergreen: Requesting X11 forwarding with authentication spoofing.  
Warning: Remote host denied X11 forwarding, perhaps xauth program  
could not be run on the server side.  
rtp-evergreen: Requesting shell.  
rtp-evergreen: Entering interactive session.
```

Cisco Systems Console

sec-cat6000>

A fim resolver para sempre este problema, promova o IOS Software a algumas das versões em que este problema é fixo.

Um erro foi arquivado sobre esta edição. Para mais informação, refira a identificação de bug Cisco [CSCtc41114 \(clientes registrados somente\)](#).

[Informações Relacionadas](#)

- [Página de suporte SSH](#)
- [Configuring Secure Shell on Routers and Switches Running Cisco IOS](#)
- [Conjunto de ferramentas do bug](#)
- [Suporte Técnico - Cisco Systems](#)