

Procedimento de recuperação de senha para os Catalyst 6500/6000 Series Switches que executam o Cisco IOS System Software

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[Introduction](#)

Este documento descreve como recuperar uma senha nos Catalyst 6500/6000 Series Switches e nos Cisco 7600 Series Routers que executam o Cisco IOS® System Software.

[Prerequisites](#)

[Requirements](#)

Não existem requisitos específicos para este documento.

[Componentes Utilizados](#)

Este documento se aplica aos sistemas baseados no Supervisor 1, Supervisor 2, Supervisor 720 e Sistema de Comutação Virtual (VSS - Virtual Switching System) 1440. Para sistemas baseados no Supervisor 720, este documento se aplica quando executa o Cisco IOS Software Release 12.2(17)SX ou posterior. Se o Supervisor 720 executar uma versão anterior a esta, consulte o [Procedimento de Recuperação de Senha para o Catalyst 6500 com Supervisor 720 Executando o Software do Sistema Cisco IOS anteriores a 12.2\(17\)SX](#).

Observação: o software suportado para sistemas baseados no Virtual Switching System (VSS) 1440 é o Cisco IOS® Software Release 12.2(33)SXH1 ou posterior.

[Background](#)

A sequência de inicialização é diferente no Catalyst 6500/6000 e no Cisco 7600 que executam o Cisco IOS System Software do que no Cisco 7200 Series Router porque o hardware é diferente. Depois de desligar e desligar a caixa, o processador do switch (SP) é inicializado primeiro. Após um curto período de tempo (aproximadamente 25 a 60 segundos), ele transfere a propriedade do console para o processador de rota (RP (MSFC)). O RP continua carregando a imagem do software em pacote. É crucial que você pressione **Ctrl-brk** logo após a controladora de armazenamento entregar o controle do console ao RP. Se você enviar a sequência de interrupção muito cedo, acabará no ROMMON da controladora de armazenamento, que não é onde deveria estar. Envie a sequência de interrupção depois de ver esta mensagem no console:

```
00:00:03: %OIR-6-CONSOLE: Changing console ownership to route processor
```

Após este ponto, a recuperação da senha é feita da mesma maneira que em um roteador normal.

Observação: desse ponto em diante, o Switch Catalyst 6000 Series que executa o Cisco IOS System Software é conhecido como roteador.

Conventions

For more information on document conventions, refer to the [Cisco Technical Tips Conventions](#).

Procedimento Passo a Passo

O switch é configurado como um roteador devido ao sistema operacional que é executado no switch. O procedimento de recuperação de senha segue as mesmas etapas de um Cisco 7200 Series Router, exceto que você precisa esperar aproximadamente 25 a 60 segundos mais antes de iniciar a sequência de interrupção.

1. Conecte um terminal ou PC com emulação de terminal à porta de console do roteador.

Utilize estas configurações de terminal:

```
9600 baud rate
No parity
8 data bits
1 stop bit
No flow control
```

As especificações do cabo do console necessário estão descritas no documento [Especificações do cabo](#). As instruções sobre como se conectar à porta do console estão no [Guia de Instalação do Módulo](#). A seção [Conexão à porta de console—Somente Supervisor Engine](#) fornece informações úteis.

2. Se você ainda tem acesso ao roteador, emita o comando `show version` e registre a definição do registro de configuração. Geralmente é 0x2102 ou 0x102. [Clique aqui para ver a saída de um comando show version](#).
3. Se você não tiver acesso ao roteador (devido a um login perdido ou a uma senha TACACS), seu registro de configuração será definido como 0x2102.
4. Desligue o roteador e ligue-o novamente com a ajuda do botão liga/desliga.
5. **Cuidado:** a sequência de interrupção deve ser iniciada somente após o RP ganhar o controle da porta de console. Pressione **Break** no teclado do terminal logo após o RP ganhar o controle da porta do console. No Catalyst 6000 que executa o Cisco IOS Software, o SP é inicializado primeiro. Depois de inicializar, ele transfere o controle para o RP. Depois que o RP ganhar controle, inicie a sequência de interrupção. O RP ganha controle da porta de

console quando você vê esta mensagem. (Não inicie a seqüência de break até ver esta mensagem):

```
00:00:03: %OIR-6-CONSOLE: Changing console ownership to route processor
```

A partir desse ponto, o procedimento de recuperação de senha é o mesmo que para qualquer outro roteador. Se a seqüência de interrupção não funcionar, consulte as [Combinções de Sequência de Teclas de Interrupção Padrão Durante a Recuperação de Senha](#) para obter outras combinações de teclas.

6. Digite `confreg 0x2142` no prompt `ROMMON 1>` para inicializar a partir da flash sem carregar a configuração.
7. Digite **reset** no prompt `rommon 2>`.O roteador é reinicializado. No entanto, ele ignora a configuração salva.
8. Digite no depois de cada pergunta da configuração ou pressione Ctrl-C para pular o procedimento inicial de configuração.
9. Digite **enable** no prompt `Router>`. Você está no modo **enable** e vê o prompt `Router#`.
10. **Importante:** Emita os comandos **configure memory** ou **copy start running** para copiar a RAM não volátil (NVRAM) na memória. Não emita o comando `configure terminal`.
11. Emita o comando `write terminal` ou `show running`. Os comandos `show running` e `write terminal` apresentam a configuração do roteador. Nessa configuração, você vê em todas as interfaces o comando **shutdown**. Isso significa que todas as interfaces estão desligadas no momento. Você vê as senhas no formato criptografado ou não criptografado.
12. Emita o comando **configure terminal** para entrar no modo de configuração global e fazer as alterações. O prompt agora é `hostname(config)#`.
13. Emita o comando **enable secret < senha > no modo de configuração global para alterar a senha enable**.
14. Emita o comando `config-register 0x2102` ou o valor registrado na Etapa 2 em modo de configuração global (`Router(config)#`) para redefinir o valor da configuração para seu valor original.
15. Altere as senhas do terminal virtual, se presentes:

```
Router(config)#line vty 0 4
Router(config-line)#password cisco
Router(config-line)#^Z
Router#
```

16. Emita o comando **no shutdown** em todas as interfaces que estão normalmente em uso. Emita um comando **show ip interface brief** para ver uma lista de interfaces e seu status atual. Você deve estar em modo de habilitação (`Roteador#`) para executar o comando `show ip interface brief`. Aqui está um exemplo de uma interface:

```
Router#show ip interface brief
Interface                IP-Address      OK? Method Status        Prol
Vlan1                    172.17.10.10   YES TFTP  administratively down dow
Vlan10                   10.1.1.1       YES TFTP  administratively down dow
GigabitEthernet1/1      unassigned     YES unset  administratively down dow
GigabitEthernet1/2      unassigned     YES TFTP  administratively down dow
GigabitEthernet2/1      unassigned     YES TFTP  administratively down dow
GigabitEthernet2/2      unassigned     YES TFTP  administratively down dow
FastEthernet3/1         172.16.84.110 YES TFTP  administratively down dow
<snip>...
```

```
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface fastEthernet 3/1
Router(config-if)#no shutdown
Router(config-if)#exit
Router(config)# <do other interfaces as necessary...>
```

17. Pressione Ctrl-Z para sair do modo de configuração. O prompt agora é hostname#.
18. Emita os comandos **write memory** ou **copy running startup** para confirmar as alterações.

Saída de exemplo

O exemplo aqui mostra um procedimento real de recuperação de senha. Este exemplo é criado com a ajuda de um switch Catalyst 6000 Series. Comece com os comandos **show version** e **show module** para ver quais componentes são usados neste exemplo.

Press RETURN to get started.

```
Router>enable
Password:
```

```
Router#show version
```

```
Cisco Internetwork Operating System Software
IOS (tm) c6sup1_rp Software (c6sup1_rp-JSV-M), Version 12.1(6)E, EARLY DEPLOYME
TAC Support: http://www.cisco.com/cgi-bin/ibld/view.pl?i=support
Copyright (c) 1986-2001 by cisco Systems, Inc.
Compiled Sat 17-Mar-01 00:14 by eaarmas
Image text-base: 0x60020950, data-base: 0x6165E000
```

```
ROM: System Bootstrap, Version 12.0(3)XE, RELEASE SOFTWARE
BOOTFLASH: MSFC Software (C6MSFC-BOOT-M), Version 12.1(6)E, EARLY DEPLOYMENT RE)
```

```
Router uptime is 14 minutes
System returned to ROM by power-on (SP by reload)
System image file is "sup-bootflash:c6sup11-jsv-mz.121-6.E"
```

```
Cisco Catalyst 6000 (R5000) processor with 114688K/16384K bytes of memory.
Processor board ID SAD04281AF6
R5000 CPU at 200Mhz, Implementation 35, Rev 2.1, 512KB L2 Cache
Last reset from power-on
Bridging software.
X.25 software, Version 3.0.0.
SuperLAT software (copyright 1990 by Meridian Technology Corp).
TN3270 Emulation software.
24 Ethernet/IEEE 802.3 interface(s)
2 Virtual Ethernet/IEEE 802.3 interface(s)
48 FastEthernet/IEEE 802.3 interface(s)
4 Gigabit Ethernet/IEEE 802.3 interface(s)
381K bytes of non-volatile configuration memory.
4096K bytes of packet SRAM memory.
```

```
16384K bytes of Flash internal SIMM (Sector size 256K).
Configuration register is 0x2102
```

```
Router#
```

```
Router#show module
```

Slot	Ports	Card Type	Model	Serial Number
1	2	Cat 6000 sup 1 Enhanced QoS (active)	WS-X6K-SUP1A-2GE	SAD043301JS
2	2	Cat 6000 sup 1 Enhanced QoS (standby)	WS-X6K-SUP1A-2GE	SAD03510114
3	48	48 port 10/100 mb RJ45	WS-X6348-RJ-45	SAD04230FB6
6	24	24 port 10baseFL	WS-X6024-10FL-MT	SAD03413322

Slot	MAC addresses	Hw	Fw	Sw
1	00d0.c0d2.5540 to 00d0.c0d2.5541	3.2	unknown	6.1(0.105)OR
2	00d0.bcf1.9bb8 to 00d0.bcf1.9bb9	3.2	unknown	6.1(0.105)OR

3 0002.7ef1.36e0 to 0002.7ef1.370f 1.1 5.3(1) 1999- 6.1(0.105)OR
6 00d0.9738.5338 to 00d0.9738.534f 0.206 5.3(1) 1999- 6.1(0.105)OR

Router#

Router#**reload**

Proceed with reload? [confirm]

!--- Here you turn off the power and then turn it back on. !--- Here it is done with a reload instead of a hard power-cycle. 00:15:28: %SYS-SP-3-LOGGER_FLUSHING: System pausing to ensure console debugging. 00:15:27: %C6KPWR-SP-4-DISABLED: power to module in slot 2 set off (admin reque) 00:15:28: %C6KPWR-SP-4-DISABLED: power to module in slot 3 set off (admin reque) 00:15:28: %C6KPWR-SP-4-DISABLED: power to module in slot 6 set off (admin reque) 00:15:28: %OIR-SP-6-CONSOLE: Changing console ownership to switch processor 00:15:28: %SYS-SP-3-LOGGER_FLUSHED: System was paused for 00:00:00 to ensure co. 00:15:30: %SYS-SP-3-LOGGER_FLUSHING: System pausing to ensure console debugging. *** ** SHUTDOWN NOW --- *** 00:15:30: %SYS-SP-5-RELOAD: Reload requested 00:15:30: %OIR-SP-6-CONSOLE: Changing console ownership to switch processor 00:15:30: %SYS-SP-3-LOGGER_FLUSHED: System was paused for 00:00:00 to ensure co. 00:15:31: %OIR-SP-6-REMCARD: Card removed from slot 1, interfaces disabled *!--- First, the switch processor comes up.* System Bootstrap, Version 5.3(1) Copyright (c) 1994-1999 by cisco Systems, Inc. c6k_sup1 processor with 65536 Kbytes of main memory Autoboot executing command: "boot bootflash:c6sup11-jsv-mz.121-6.E" Self decompressing the image : #####] Restricted Rights Legend Use, duplication, or disclosure by the Government is subject to restrictions as set forth in subparagraph (c) of the Commercial Computer Software - Restricted Rights clause at FAR sec. 52.227-19 and subparagraph (c) (1) (ii) of the Rights in Technical Data and Computer Software clause at DFARS sec. 252.227-7013. Cisco Systems, Inc. 170 West Tasman Drive San Jose, California 95134-1706 Cisco Internetwork Operating System Software IOS (TM) c6sup1_sp Software (c6sup1_sp-SPV-M), Version 12.1(6)E, EARLY DEPLOYME) TAC Support: http://www.cisco.com/cgi-bin/ibld/view.pl?i=support Copyright (c) 1986-2001 by cisco Systems, Inc. Compiled Sat 17-Mar-01 00:52 by eaarmas Image text-base: 0x60020950, database: 0x605FC000 Start as Primary processor 00:00:03: %SYS-3-LOGGER_FLUSHING: System pausing to ensure console debugging ou. **00:00:03: %OIR-6-CONSOLE: Changing console ownership to route processor**

!--- The RP now has control of the console. !--- This is when you send the break sequence. System Bootstrap, Version 12.0(3)XE, RELEASE SOFTWARE Copyright (c) 1998 by cisco Systems, Inc. *** Address Error (Load/Fetch) Exception *** Access address = 0x5e PC = 0x5e, Cause = 0x10, Status Reg = 0x3040d003 ROM Monitor Can Not Recover From Exception A Board Reset Is Issued *** Software NMI *** PC = 0xbfc0b6b0, SP = 0x00002a90 Cat6k-MSFC platform with 131072 Kbytes of main memory Self decompressing the image : #####] *** System received an abort due to Break Key *** signal= 0x3, code= 0x0, context= 0x6049ed68 PC = 0x601011ac, Cause = 0x20, Status Reg = 0x34008002 *!--- You are now in ROMMON mode on the RP. Continue the password !--- recovery procedure just as on any router. Changing the configuration !--- register from 0x2102 to 0x2142 causes the router to ignore the existing !--- configuration. You want it to be ignored because it has passwords that you do not !--- know.* rommon 1 > **confreg 0x2142**

You must reset or power cycle for new config to take effect
rommon 2 > **reset**

System Bootstrap, Version 12.0(3)XE, RELEASE SOFTWARE
Copyright (c) 1998 by cisco Systems, Inc.
Cat6k-MSFC platform with 131072 Kbytes of main memory

Self decompressing the image : #####]

Attempt to download 'sup-bootflash:c6sup11-jsv-mz.121-6.E' ... okay
Starting download of 'sup-bootflash:c6sup11-jsv-mz.121-6.E': 8722810 bytes!!!!!!
Chksum: Verified!
Self decompressing the image : #####]

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Use, duplication, or disclosure by the Government is subject to restrictions as set forth in subparagraph

(c) of the Commercial Computer Software - Restricted Rights clause at FAR sec. 52.227-19 and subparagraph (c) (1) (ii) of the Rights in Technical Data and Computer Software clause at DFARS sec. 252.227-7013.

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, California 95134-1706

Cisco Internetwork Operating System Software
IOS (TM) c6sup1_RP Software (c6sup1_rp-JSV-M), Version 12.1(6)E, EARLY DEPLOYME)
TAC Support: <http://www.cisco.com/cgi-bin/ibld/view.pl?i=support>
Copyright (c) 1986-2001 by Cisco Systems, Inc.
Compiled Sat 17-Mar-01 00:14 by eaarmas
Image text-base: 0x60020950, database: 0x6165E000

Cisco Catalyst 6000 (R5000) processor with 114688K/16384K bytes of memory.
Processor board ID SAD04281AF6
R5000 CPU at 200Mhz, Implementation 35, Rev 2.1, 512KB L2 Cache
Last reset from power-on
Bridging software.
X.25 software, Version 3.0.0.
SuperLAT software (copyright 1990 by Meridian Technology Corp).
TN3270 Emulation software.
24 Ethernet/IEEE 802.3 interface(s)
1 Virtual Ethernet/IEEE 802.3 interface(s)
48 FastEthernet/IEEE 802.3 interface(s)
4 Gigabit Ethernet/IEEE 802.3 interface(s)
381K bytes of nonvolatile configuration memory.
4096K bytes of packet SRAM memory.

16384K bytes of Flash internal SIMM (Sector size 256K).

--- System Configuration Dialog ---

Would you like to enter the initial configuration dialog? [yes/no]: n

!--- The router ignores the saved configuration and enters !--- the initial configuration mode.
Press RETURN to get started! 00:00:03: %SYS-3-LOGGER_FLUSHED: System was paused for 00:00:00 to ensure conso. 00:00:04: %C6KPWR-4-PSINSERTED: power supply inserted in slot 1. 00:00:04: %C6KPWR-4-PSOK: power supply 1 turned on. 00:02:08: %SYS-SP-5-RESTART: System restarted -- Cisco Internetwork Operating System Software IOS (TM) c6sup1_SP Software (c6sup1_sp-SPV-M), Version 12.1(6)E, EARLY DEPLOYME) TAC Support: <http://www.cisco.com/cgi-bin/ibld/view.pl?i=support> Copyright (c) 1986-2001 by cisco Systems, Inc. Compiled Sat 17-Mar-01 00:52 by eaarmas 00:02:13: L3-MGR: 12 flush entry installed 00:02:13: L3-MGR: 13 flush entry installed 00:02:14: %SYS-5-RESTART: System restarted -- Cisco Internetwork Operating System Software IOS (TM) c6sup1_RP Software (c6sup1_rp-JSV-M), Version 12.1(6)E, EARLY DEPLOYME) TAC Support: <http://www.cisco.com/cgi-bin/ibld/view.pl?i=support> Copyright (c) 1986-2001 by Cisco Systems, Inc. Compiled Sat 17-Mar-01 00:14 by eaarmas 00:02:17: %C6KPWR-SP-4-DISABLED: power to module in slot 1 set off (admin reque) 00:02:18: %C6KPWR-SP-4-ENABLED: power to module in slot 3 set on 00:02:18: %C6KPWR-SP-4-ENABLED: power to module in slot 6 set on 00:02:28: sm_set_moduleFwVersion: nonexistent module (1) 00:02:38: %SNMP-5-MODULETRAP: Module 1 [Up] Trap 00:02:38: %OIR-SP-6-INSCARD: Card inserted in slot 1, interfaces are now online 00:02:56: %SNMP-5-MODULETRAP: Module 6 [Up] Trap 00:02:56: %OIR-SP-6-INSCARD: Card inserted in slot 6, interfaces are now online 00:02:59: SP: SENDING INLINE_POWER_DAUGHTERCARD_MSG SCP MSG 00:02:59: %SNMP-5-MODULETRAP: Module 3 [Up] Trap 00:02:59: %OIR-SP-6-INSCARD: Card inserted in slot 3, interfaces are now online Router>**enable**
Router#

!--- You go right into privilege mode without needing a password. !--- At this point, the configuration running-config is a default configuration !--- with all the ports administratively down (shutdown). Router#**copy startup-config running-config**
Destination filename [running-config]? <press enter>

!--- This pulls in the original configuration. Since you are already in privilege !--- mode, the passwords in this configuration do not affect you. 4864 bytes copied in 2.48 secs (2432 bytes/sec) Router#**configure terminal**
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#**enable secret < password > [Choose a strong password with at least one capital letter, one number, and one special character.]**

!--- Overwrite the password that you do not know. This is your new enable password.
Router(config)#**^Z**

Router#

Router#**show ip interface brief**

Interface	IP-Address	OK?	Method	Status	Pro
Vlan1	172.17.10.10	YES	TFTP	administratively down	dow
Vlan10	10.1.1.1	YES	TFTP	administratively down	dow
GigabitEthernet1/1	unassigned	YES	unset	administratively down	dow
GigabitEthernet1/2	unassigned	YES	TFTP	administratively down	dow
GigabitEthernet2/1	unassigned	YES	TFTP	administratively down	dow
GigabitEthernet2/2	unassigned	YES	TFTP	administratively down	dow
FastEthernet3/1	172.16.84.110	YES	TFTP	administratively down	dow

<snip>...

!--- Issue the no shut command on all interfaces that you want to bring up.

Router#**configure terminal**

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#**interface fastEthernet 3/1**

Router(config-if)#**no shutdown**

Router(config-if)#**exit**

!--- Overwrite the virtual terminal passwords. Router(config)#**line vty 0 4**

Router(config-line)#**password cisco**

Router(config-line)#**^Z**

Router#

!--- Restore the configuration register to its normal state so that it !--- no longer ignores the stored configuration file. Router#**show version**

Cisco Internetwork Operating System Software
IOS (tm) c6sup1_rp Software (c6sup1_rp-JSV-M), Version 12.1(6)E, EARLY DEPLOYME
TAC Support: <http://www.cisco.com/cgi-bin/ibld/view.pl?i=support>
Copyright (c) 1986-2001 by cisco Systems, Inc.
Compiled Sat 17-Mar-01 00:14 by eaarmas
Image text-base: 0x60020950, data-base: 0x6165E000

ROM: System Bootstrap, Version 12.0(3)XE, RELEASE SOFTWARE

BOOTFLASH: MSFC Software (C6MSFC-BOOT-M), Version 12.1(6)E, EARLY DEPLOYMENT RE)

Router uptime is 7 minutes

System returned to ROM by power-on (SP by reload)

System image file is "sup-bootflash:c6sup11-jsv-mz.121-6.E"

Cisco Catalyst 6000 (R5000) processor with 114688K/16384K bytes of memory.

Processor board ID SAD04281AF6

R5000 CPU at 200Mhz, Implementation 35, Rev 2.1, 512KB L2 Cache

Last reset from power-on

Bridging software.

X.25 software, Version 3.0.0.

SuperLAT software (copyright 1990 by Meridian Technology Corp).

TN3270 Emulation software.

24 Ethernet/IEEE 802.3 interface(s)

2 Virtual Ethernet/IEEE 802.3 interface(s)

48 FastEthernet/IEEE 802.3 interface(s)

4 Gigabit Ethernet/IEEE 802.3 interface(s)

381K bytes of non-volatile configuration memory.

4096K bytes of packet SRAM memory.

16384K bytes of Flash internal SIMM (Sector size 256K).

Configuration register is 0x2142

Router#**configure terminal**

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#**config-register 0x2102**

Router(config)#**^Z**

Router#

!--- Verify that the configuration register is changed for the next reload. Router#**show version**

Cisco Internetwork Operating System Software

IOS (tm) c6sup1_rp Software (c6sup1_rp-JSV-M), Version 12.1(6)E, EARLY DEPLOYME

TAC Support: <http://www.cisco.com/cgi-bin/ibld/view.pl?i=support>

Copyright (c) 1986-2001 by cisco Systems, Inc.

Compiled Sat 17-Mar-01 00:14 by eaarmas

Image text-base: 0x60020950, data-base: 0x6165E000

ROM: System Bootstrap, Version 12.0(3)XE, RELEASE SOFTWARE

BOOTFLASH: MSFC Software (C6MSFC-BOOT-M), Version 12.1(6)E, EARLY DEPLOYMENT RE)

Router uptime is 8 minutes

System returned to ROM by power-on (SP by reload)

System image file is "sup-bootflash:c6sup11-jsv-mz.121-6.E"

Cisco Catalyst 6000 (R5000) processor with 114688K/16384K bytes of memory.

Processor board ID SAD04281AF6

R5000 CPU at 200Mhz, Implementation 35, Rev 2.1, 512KB L2 Cache

Last reset from power-on

Bridging software.

X.25 software, Version 3.0.0.

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TN3270 Emulation software.

24 Ethernet/IEEE 802.3 interface(s)

2 Virtual Ethernet/IEEE 802.3 interface(s)

48 FastEthernet/IEEE 802.3 interface(s)

4 Gigabit Ethernet/IEEE 802.3 interface(s)

381K bytes of non-volatile configuration memory.

4096K bytes of packet SRAM memory.

16384K bytes of Flash internal SIMM (Sector size 256K).

Configuration register is 0x2142 (**will be 0x2102 at next reload**)

Router#

Router#**copy running-config startup-config**

Destination filename [startup-config]? **<press enter>**

Building configuration...

[OK]

Router#

!--- Optional: If you want to test that the router !--- operates properly and that you have changed !--- the passwords, then reload and test. Router#**reload**

Proceed with reload? [confirm] **<press enter>**

[Informações Relacionadas](#)

- [Página de suporte da switching de LAN](#)
- [Páginas de Suporte de Produtos de LAN](#)
- [Suporte aos produtos de switches LAN e ATM do Catalyst](#)
- [Suporte Técnico - Cisco Systems](#)