Procedimento de recuperação de senha para o Catalyst 6500/6000 series switch que executa o software do sistema do Cisco IOS

Índice

Introdução

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.

Pré-requisitos

Requisitos

Não existem requisitos específicos para este documento.

Componentes Utilizados

Este documento aplica-se ao Supervisor 1, ao supervisor 2, ao supervisor 720, e ao sistema de switching virtual (VSS) 1440 sistemas baseados. Para sistemas baseados do supervisor 720, este documento aplica-se quando executa o Cisco IOS Software Release12.2(17)SX ou mais tarde. Se seu supervisor 720 executa uma versão antes deste, refira o procedimento de recuperação de senha para o Catalyst 6500 com software running do software do sistema do Cisco IOS do supervisor 720 antes de 12.2(17)SX.

Nota: O software suportado para o sistema de switching virtual (VSS) 1440 sistemas baseados é Software Release 12.2(33)SXH1 ou Mais Recente de Cisco IOS®.

Background

A sequência de inicialização é diferente no Catalyst 6500/6000 e no Cisco 7600 que executam o software do sistema do Cisco IOS do que o Cisco 7200 Series Router porque o hardware é diferente. Depois que você ciclo de energia a caixa, o switch processor (SP) carreg acima primeiramente. Após uma quantidade de tempo curta (aproximadamente 25 a 60 segundos) transfere a posse do console ao processador de rotas (RP (MSFC)). O RP continua a carregar a imagem do software empacotada. É crucial que você pressiona o **Ctrl-brk** imediatamente depois que o SP entreg o controle do console ao RP. Se você envia a sequência de break demasiado logo, você termina acima no ROMMON do SP, que não é onde você deve ser. Envie a sequência de break depois que você vê 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.

Nota: A partir daqui, o Catalyst 6000 Series Switch que executa o software do sistema do Cisco IOS é referido como um roteador.

Convenções

For more information on document conventions, refer to the Cisco Technical Tips Conventions.

Procedimento Passo a Passo

O interruptor é configurado como um roteador devido ao sistema operacional que é executado no interruptor. O procedimento de recuperação de senha segue as mesmas etapas que um Cisco 7200 Series Router, salvo que você tem que esperar aproximadamente 25 a 60 segundos mais por muito tempo antes que você comece a sequência de break.

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 em como conectar à porta de Console estão no guia de instalação de módulo. A conexão à seção única do Engine porta de Console-supervisor fornece a informação util.
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 tem o acesso ao roteador (devido a um login ou senha de TACACS perdido), seu registro de configuração está ajustado a 0x2102.
4. Desligue o roteador e gire-o então para trás sobre com a ajuda do switch de energia.
5. **Cuidado:** A sequência de break deve ser iniciada somente depois que o RP ganha o controle da porta de Console.Pressione a **ruptura no** teclado terminal right after o RP ganha o controle da porta de Console. No catalizador 6000 que executa o Cisco IOS Software, o SP carreg primeiramente. Depois que carreg, vira o controle para o RP. Depois que o RP ganha o controle, inicie a sequência de break. O RP ganha o 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 daqui, o procedimento de recuperação de senha é o mesmo que para todo o outro roteador. Se a sequência de break não trabalha, refira as combinações de sequência chave de ruptura padrão durante a recuperação de senha para outras combinações chave.

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>.As repartições do roteador. Contudo, 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 reage do **modo enable** e vê a alerta do `router-`.
10. **Importante:** Emita os **comandos configure memory ou copy start running** copiar o 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. Nesta configuração, você vê sob todas as relações o **comando shutdown**. Isto significa que todas as relações estão fechadas atualmente. Você vê as senhas um ou outro dentro formato criptografado ou não criptografado.
12. Emita o **comando configure terminal** incorporar o modo de configuração global e fazer as mudanças.O prompt agora é hostname(config)#.
13. Emita o **comando enable secret < password > no** modo de configuração global mudar a senha da **possibilidade**.
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. Mude as senhas de terminal virtual, se presente:

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

16. Emita o **comando no shutdown em** cada relação que é normalmente dentro uso. Emita um **comando show ip interface brief** ver uma lista de relações e de 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 o **Ctrl-z** para deixar o modo de configuração.O prompt agora é hostname##.

18. Emita os **comandos write memory ou copy running startup** comprometer as mudanças.

Saída de exemplo

O exemplo aqui mostra um procedimento de recuperação de senha real. Este exemplo é criado com a ajuda de um Catalyst 6000 Series Switch. Comece com os **comandos show version and show module** ver que 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 : ##################################################]
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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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subject to restrictions as set forth in subparagraph
(c) of the Commercial Computer Software - Restricted
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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: l2 flush entry installed 00:02:13: L3-MGR: l3 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                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>...

 !--- 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.
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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

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
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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.
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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 dos Produtos Catalyst LAN e ATM Switches
- Suporte Técnico - Cisco Systems