Recuperação de senhas para os switches Catalyst 4500/4900 com mecanismo de supervisão

Contents

Introdução

Este documento descreve como recuperar uma senha perdida em um switch Catalyst 4500/4900 que tem um Supervisor Engine que executa o Cisco IOS® Software.

Pré-requisitos

Requisitos

Não existem requisitos específicos para este documento.

Componentes Utilizados

Este documento não se restringe a versões de software e hardware específicas.

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

Conventions

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

Informações de Apoio

Observação: nos Catalyst 4500/4000 Series Switches, os Supervisor Engines II+, II+10GE, II+TS, III, IV, V e V-10GE suportam somente o Cisco IOS Software.

Este documento descreve como recuperar uma senha perdida ou desconhecida em um switch Catalyst 4500/4000 com um Supervisor Engine II-Plus (WS-X4013+), Supervisor Engine II-Plus-TS (WS-X4013+TS), Supervisor Engine II-Plus-10GE (WS-X4013+10GE), Supervisor Engine III (WS-X4014), Supervisor Engine IV (WS-X4515), Módulo V (WS-X4516), Supervisor Engine V-10GE (WS-X4516-10GE), switches Cisco Catalyst 4948, Cisco Catalyst 4948 10GE e Cisco Catalyst 4900M.

Processo de configuração

Para recuperar sua senha no switch Catalyst 4500/4900:

Observação: certifique-se de ter acesso físico ao switch e de usar o acesso de console ao módulo do Supervisor Engine enquanto executa essas etapas. Para obter detalhes sobre a conexão de console do switch, consulte [Conectar um Modem à Porta de Console em Catalyst Switches](#).

Dica: a configuração do switch não será perdida se o procedimento for seguido conforme mencionado. Como prática recomendada, a Cisco recomenda que você tenha uma cópia de backup da configuração de todos os dispositivos Cisco no servidor TFTP ou em um servidor de gerenciamento de rede.

1. Desligue e religue o dispositivo.

   Para desligar e religar, desligue o dispositivo e ligue-o novamente.

   Pressione Ctrl-C em 5 segundos para impedir a inicialização automática. Esta ação o coloca no modo de prompt do ROM monitor (ROMmon).

   ```
   <#root>

    !--- Here, you power cycle the switch.

   ************************************************************
   *                                                          *
   * Welcome to ROM Monitor for WS-X4014 System.              *
   * Copyright (c) 1999-2000, 2001 by Cisco Systems, Inc.     *
   * All rights reserved.                                     *
   *                                                          *
   ************************************************************

    ROM Monitor Program Version 12.1(10r)EY(1.21)
   ```

```
   Board type 1, Board revision 7
   Swamp FPGA revision 16, Dagobah FPGA revision 43

   Timer interrupt test passed.

   MAC Address  : 00-02-b9-83-af-fe
   IP Address   : 172.16.84.122
   Netmask      : 255.255.255.0
   Gateway      : 172.16.84.1
   TftpServer   : Not set.
   Main Memory  : 256 MBytes


   ***** The system will autoboot in 5 seconds *****

   Type control-C to prevent autobooting.



   !--- At this point, press Ctrl-C.



   Autoboot cancelled......... please wait!!!
   Autoboot cancelled........ please wait!!!

   rommon 1

   > [interrupt]


   !--- The module ended in the ROMmon.



   rommon 1

   > [interrupt]
```

2. Emita o confreg comando no prompt rommon .

Faça as seleções que aparecem aqui em negrito para recuperação de senha:

```
    <#root>


rommon 1 >



set
```

<#root>

```
rommon 1 >
```

confreg

```
 Configuration Summary :
 => load ROM after netboot fails
 => console baud: 9600
 => autoboot from: commands specified in 'BOOT' environment variable

 do you wish to change the configuration? y/n  [n]:
```

y

```
  enable  "diagnostic mode"? y/n  [n]:
```

n

```
  enable  "use net in IP bcast address"? y/n  [n]:
```

n

```
  disable "load ROM after netboot fails"? y/n  [n]:
```

n

enable "use all zero broadcast"? y/n [n]:

n

enable "break/abort has effect"? y/n [n]:

n

enable "ignore system config info"? y/n [n]:

y

change console baud rate? y/n [n]:

n

change the boot characteristics? y/n [n]:

n

```
Configuration Summary :
=> load ROM after netboot fails
=> ignore system config info
=> console baud: 9600
=> autoboot from: commands specified in 'BOOT' environment variable

do you wish to save this configuration? y/n  [n]:
```

y

You must reset or power cycle for new configuration to take effect

---

✎ **Observação**: você também pode usar o **confreg 0x2142** comando no prompt ROMmon para definir o valor do registro de configuração para ignorar a configuração de inicialização armazenada na NVRAM.

<#root>

```
rommon 1 >
```

confreg 0x2142

```
You must reset or power cycle for the new configuration to take effect.
```

-

Execute o reset comando para que o módulo seja reinicializado.

Devido às alterações feitas na etapa 2, o módulo é reinicializado, mas ignora a configuração salva.

```
     <#root>

rommon 2 >

reset

Resetting .......

rommon 3 >

*******************************************************
*                               *
* Welcome to ROM Monitor for WS-X4014 System.        *
* Copyright (c) 1999-2000, 2001 by Cisco Systems, Inc.  *
* All rights reserved.                   *
*                               *
*******************************************************

!--- Output suppressed.




Press RETURN to get started!




!--- Press Return.

00:00:21: %SYS-5-RESTART: System restarted --
Cisco Internetwork Operating System Software
IOS (tm) Catalyst 4000 L3 Switch Software (cat4000-IS-M),
  Version 12.1(8a)EW,  RELEASE SOFTWARE (fc1)
TAC Support: http://www.cisco.com/tac
Copyright (c) 1986-2002 by cisco Systems, Inc.
Compiled Thu 24-Jan-02 17:34 by ccai
00:00:21: %SNMP-5-COLDSTART: SNMP agent on host Switch
  is undergoing a cold start
Switch>
```

-

Verifique se o valor do registro de configuração é 0x2142.

Esse valor faz com que o módulo seja inicializado a partir do Flash sem uma carga da configuração salva. Emita o comando **enable** no prompt do Switch para ir para o modo enable. Em seguida, emita o comando **show version** para verificar o valor do registro de configuração.

<#root>

```
Switch>
```

enable

```
Switch#
```

show version

```
Cisco Internetwork Operating System Software
Cisco IOS (TM) Catalyst 4000 L3 Switch Software (cat4000-IS-M),
   Version 12.1(8a)EW,  RELEASE SOFTWARE (fc1)
TAC Support: https://www.cisco.com/tac
Copyright (c) 1986-2002 by cisco Systems, Inc.
Compiled Thu 24-Jan-02 17:34 by ccai
Image text-base: 0x00000000, data-base: 0x00AA2B8C

ROM: 12.1(10r)EY(1.21)
Switch uptime is 5 minutes
System returned to ROM by reload
Running default software

cisco WS-C4006 (MPC8245) processor (revision 7) with 262144K bytes of memory.
Processor board ID FOX04183666
Last reset from Reload
32 Gigabit Ethernet/IEEE 802.3 interface(s)
467K bytes of non-volatile configuration memory.
```

Configuration register is 0x2142

```
Switch#
```

-

Emita o configure memory comando ou o **copy startup-config running-config** comando para copiar a NVRAM na memória.

Não emita o configure terminal comando, que mostra a configuração padrão no módulo.

```
<#root>
```

```
Switch#
```

configure memory

```
Uncompressed configuration from 1307 bytes to 3014 bytes
Switch#
00:13:52: %SYS-5-CONFIG_I: Configured from memory by console
c-4006-SUPIII#
```

-

Emita o show ip interface brief   comando para certificar-se de que as interfaces que estavam em uso anteriormente mostram um **status up/up**.

Se alguma das interfaces que estavam em uso antes da recuperação de senha aparecer **inativa**, emita o comando no shutdown nessa interface para ativar a interface.

-

Emita o comando **write terminal** ou o comando **show running-config** para exibir a configuração salva no módulo.

```
<#root>
```

```
c-4006-SUPIII#
```

show running-config

```
Building configuration...

Current configuration : 3014 bytes
!
version 12.1
no service pad
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
service compress-config
!
hostname c-4006-SUPIII
!
boot system flash bootflash:
!
vtp mode transparent

!--- Output suppressed.

line con 0
 stopbits 1
line vty 0 4
 login
!
end

c-4006-SUPIII#
```

Agora, você está pronto para alterar a senha do módulo.

-

Emita estes comandos para alterar a senha:

<#root>

```
c-4006-SUPIII#
```

configure terminal

```
Enter configuration commands, one per line.  End with CNTL/Z.
c-4006-SUPIII(config)#
```

```
no enable secret
```

!--- This step is necessary if the switch had an enable secret password.

```
c-4006-SUPIII(config)#
```

```
enable secret < password >
[Choose a strong password with at least one capital letter,
 one number, and one special character.]
```

!--- This command sets the new password.

-

Certifique-se de alterar o valor do registro de configuração novamente para 0x2102.

Siga estas etapas no prompt de configuração para alterar e verificar o valor do registro de configuração.

<#root>

```
c-4006-SUPIII(config)#
```

```
config-register 0x2102
```

```
c-4006-SUPIII(config)#
```

```
^Z
```

```
c-4006-SUPIII#
00:19:01: %SYS-5-CONFIG_I: Configured from console by console
c-4006-SUPIII#
```

write memory

 Building configuration...
Compressed configuration from 3061 bytes to 1365 bytes[OK]
c-4006-SUPIII#

show version

Cisco Internetwork Operating System Software
Cisco IOS (TM) Catalyst 4000 L3 Switch Software (cat4000-IS-M),
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Copyright (c) 1986-2002 by cisco Systems, Inc.
Compiled Thu 24-Jan-02 17:34 by ccai
Image text-base: 0x00000000, database: 0x00AA2B8C

ROM: 12.1(10r)EY(1.21)
c-4006-SUPIII uptime is 20 minutes
System returned to ROM by reload
Running default software

cisco WS-C4006 (MPC8245) processor (revision 7) with 262144K bytes of memory.
Processor board ID FOX04183666
Last reset from Reload
32 Gigabit Ethernet/IEEE 802.3 interface(s)
467K bytes of nonvolatile configuration memory.

Configuration register is 0x2142 (

will be 0x2102 at next reload

)

c-4006-SUPIII#

Neste ponto, você alterou a senha.

Exemplo de configuração e saída

Esta saída de exemplo é o resultado do procedimento de recuperação de senha em um Catalyst 4000 Supervisor Engine III.

```
   <#root>


c-4006-SUPIII>



enable



Password:
Password:
Password:
% Bad secrets




!--- Here, you power cycle the switch.




***********************************************************
*                                                         *
* Welcome to ROM Monitor for WS-X4014 System.             *
* Copyright (c) 1999-2000, 2001 by Cisco Systems, Inc.    *
* All rights reserved.                                    *
*                                                         *
***********************************************************

 ROM Monitor Program Version 12.1(10r)EY(1.21)

 Board type 1, Board revision 7
 Swamp FPGA revision 16, Dagobah FPGA revision 43

 Timer interrupt test passed.

 MAC Address   : 00-02-b9-83-af-fe
 IP Address    : 172.16.84.122
 Netmask       : 255.255.255.0
 Gateway       : 172.16.84.1
 TftpServer    : Not set.
 Main Memory   : 256 Mbytes
```

```
 ***** The system will autoboot in 5 seconds *****

Type control-C to prevent autobooting.




!--- At this point, press Ctrl-C.




Autoboot cancelled......... please wait!!!
Autoboot cancelled........ please wait!!!
rommon 1 > [interrupt]

rommon 1 > [interrupt]

rommon 1 >




confreg




Configuration Summary :
=> load ROM after netboot fails
=> console baud: 9600
=> autoboot from: commands specified in 'BOOT' environment variable

do you wish to change the configuration? y/n [n]:




y




enable "diagnostic mode"? y/n [n]:




n
```

```
enable "use net in IP bcast address"? y/n [n]:




n




disable "load ROM after netboot fails"? y/n [n]:




n




enable "use all zero broadcast"? y/n [n]:




n




enable "break/abort has effect"? y/n [n]:




n




enable "ignore system config info"? y/n [n]:




y




change console baud rate? y/n [n]:
```

n

change the boot characteristics? y/n [n]:

n

```
Configuration Summary :
=> load ROM after netboot fails
=> ignore system config info
=> console baud: 9600
=> autoboot from: commands specified in 'BOOT' environment variable

do you wish to save this configuration? y/n [n]:
```

y

You must reset or power cycle for new configuration to take effect

rommon 2 >

reset

Resetting ....

rommon 3 >

```
******************************************************
*                                  *
* Welcome to ROM Monitor for WS-X4014 System.      *
* Copyright (c) 1999-2000, 2001 by Cisco Systems, Inc.  *
* All rights reserved.                 *
*                                  *
```

```
*********************************************************

ROM Monitor Program Version 12.1(10r)EY(1.21)
Board type 1, Board revision 7
Swamp FPGA revision 16,
Dagobah FPGA revision 43

Timer interrupt test passed.

MAC Address : 00-02-b9-83-af-fe
IP Address : 172.16.84.122
Netmask : 255.255.255.0
Gateway : 172.16.84.1
TftpServer : Not set.
Main Memory : 256 Mbytes

***** The system will autoboot in 5 seconds *****

Type control-C to prevent autobooting.
. . . . .

******** The system will autoboot now ********


config-register = 0x2142
Autobooting using BOOT variable specified file.....

Current BOOT file is --- bootflash:

Rommon reg: 0x2B004180
Decompressing the image : #########################
#####################################################
#################################### [OK]

k2diags version 1.6

prod: WS-X4014 part: 73-6854-07 serial: JAB0546060Z

Power-on-self-test for Module 1: WS-X4014
Status: (. = Pass, F = Fail)

Traffic using serdes loopback (L2; one port at a time)...
switch port 0: . switch port 1: . switch port 2: .
switch port 3: . switch port 4: . switch port 5: .
switch port 6: . switch port 7: . switch port 8: .

!--- Output suppressed.

Module 1 Passed


Exiting to ios...

Rommon reg: 0x2B000180
Decompressing the image : #######################

!--- Output suppressed.

######################################################### [OK]

        Restricted Rights Legend
```

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

Cisco Internetwork Operating System Software
Cisco IOS (TM) Catalyst 4000 L3 Switch Software (cat4000-IS-M),
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Compiled Thu 24-Jan-02 17:34 by ccai
Image text-base: 0x00000000, database: 0x00AA2B8C

cisco WS-C4006 (MPC8245) processor (revision 7) with 262144K bytes of memory.
Processor board ID FOX04183666
Last reset from Reload
32 Gigabit Ethernet/IEEE 802.3 interface(s)
467K bytes of nonvolatile configuration memory.

Press RETURN to get started!

00:00:21: %SYS-5-RESTART: System restarted --
Cisco Internetwork Operating System Software
Cisco IOS (TM) Catalyst 4000 L3 Switch Software (cat4000-IS-M),
   Version 12.1(8a)EW, RELEASE SOFTWARE (fc1)
TAC Support: https://www.cisco.com/tac
Copyright (c) 1986-2002 by cisco Systems, Inc.
Compiled Thu 24-Jan-02 17:34 by ccai
00:00:21: %SNMP-5-COLDSTART: SNMP agent on host Switch is undergoing a cold start

Switch>

enable

Switch#

show version

Cisco Internetwork Operating System Software
Cisco IOS (TM) Catalyst 4000 L3 Switch Software (cat4000-IS-M),
Version 12.1(8a)EW, RELEASE SOFTWARE (fc1)
TAC Support: https://www.cisco.com/tac
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Compiled Thu 24-Jan-02 17:34 by ccai
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ROM: 12.1(10r)EY(1.21)
Switch uptime is 5 minutes
System returned to ROM by reload
Running default software

cisco WS-C4006 (MPC8245) processor (revision 7) with 262144K bytes of memory.
Processor board ID FOX04183666
Last reset from Reload
32 Gigabit Ethernet/IEEE 802.3 interface(s)
467K bytes of nonvolatile configuration memory.

Configuration register is 0x2142

Switch#

Switch#

configure memory

Uncompressed configuration from 1307 bytes to 3014 bytes
c-4006-SUPIII#
00:13:52: %SYS-5-CONFIG_I: Configured from memory by console
c-4006-SUPIII#

show running-config

Building configuration...

```
Current configuration : 3014 bytes
!
version 12.1
no service pad
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
service compress-config
!
```

hostname c-4006-SUPIII

```
!
boot system flash bootflash:
!
vtp mode transparent
!
```
vlan 20
 private-vlan primary
!
vlan 100
!
vlan 202
 private-vlan association 440
!
vlan 440
 private-vlan isolated
!
vlan 500
ip subnet-zero
no ip domain-lookup
!
ip multicast-routing
!
!
interface GigabitEthernet1/1
 no switchport
 ip address 10.1.1.1 255.255.255.0
 ip pim dense-mode
!
interface GigabitEthernet1/2
 no switchport
 ip address 10.2.2.2 255.255.255.0
!

!--- Output suppressed.

!
interface Vlan1
 ip address 172.16.84.140 255.255.255.0
 ip pim dense-mode
!
interface Vlan2

```
 no ip address
 shutdown
!
interface Vlan20
 no ip address
 shutdown
!
```

!--- Output suppressed.

```
!
line con 0
 stopbits 1
line vty 0 4
 login
!
end
```

c-4006-SUPIII#

configure terminal

Enter configuration commands, one per line. End with CNTL/Z.
c-4006-SUPIII(config)#

no enable secret

!--- This step is necessary if the switch had an enable secret password.

c-4006-SUPIII(config)#

enable secret < password >
[Choose a strong password with at least one capital letter,
one number, and one special character.]

c-4006-SUPIII(config)#

```
config-register 0x2102



c-4006-SUPIII(config)#



^Z



c-4006-SUPIII#



write memory



Building configuration...
Compressed configuration from 3061 bytes to 1365 bytes[OK]
c-4006-SUPIII#



show version



Cisco Internetwork Operating System Software
Cisco IOS (TM) Catalyst 4000 L3 Switch Software (cat4000-IS-M),
  Version 12.1(8a)EW,  RELEASE SOFTWARE (fc1)
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ROM: 12.1(10r)EY(1.21)
c-4006-SUPIII uptime is 20 minutes
System returned to ROM by reload
Running default software

cisco WS-C4006 (MPC8245) processor (revision 7) with 262144K bytes of memory.
Processor board ID FOX04183666
Last reset from Reload
32 Gigabit Ethernet/IEEE 802.3 interface(s)
467K bytes of nonvolatile configuration memory.
```

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

```
c-4006-SUPIII#
```

Informações Relacionadas

- **Combinações de sequência chave de ruptura padrão durante a recuperação de senha**

- **Suporte de produto de Switches de LAN**

- **Suporte técnico e downloads da Cisco**