Recuperación de Contraseñas para Catalyst 4500/4900 Switches con Supervisor Engine

Contenido

Introducción

Este documento describe cómo recuperar una contraseña perdida en un switch Catalyst 4500/4900 que tiene un Supervisor Engine que ejecuta Cisco IOS® Software.

Prerequisites

Requirements

No hay requisitos específicos para este documento.

Componentes Utilizados

Este documento no tiene restricciones específicas en cuanto a versiones de software y de hardware.

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. Si tiene una red en vivo, asegúrese de entender el posible impacto de cualquier comando.

Convenciones

Consulte Convenciones de Consejos TécnicosCisco para obtener más información sobre las convenciones del documento.

Antecedentes

Nota: En los Catalyst 4500/4000 Series Switches, Supervisor Engines II+, II+10GE, II+TS, III, IV, V y V-10GE soportan solamente el Cisco IOS Software y Supervisor Engines I y II

soportan solamente el Catalyst OS Software. Para recuperar la contraseña en Supervisor Engines I o II, consulte [Procedimiento de Recuperación de Contraseña para el Catalyst que Ejecuta CatOS](#).

Este documento describe cómo recuperar una contraseña perdida o desconocida en un switch Catalyst 4500/4000 con 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), Supervisor Engine V (WS-X4516), módulo de motor supervisor V-10GE (WS-X4516-10GE), switches Cisco Catalyst 4948, Cisco Catalyst 4948 10GE y Cisco Catalyst 4900M.

Proceso de configuración

Para recuperar su contraseña en el switch Catalyst 4500/4900:

Nota: Asegúrese de tener acceso físico al switch y de utilizar el acceso de consola al módulo Supervisor Engine mientras realiza estos pasos. Para obtener detalles sobre la conexión de la consola del switch, consulte [Conexión de un Módem al Puerto de la Consola en Switches Catalyst](#).

Consejo: La configuración del switch no se pierde si se sigue el procedimiento mencionado. Como práctica recomendada, Cisco recomienda tener una copia de respaldo de la configuración de todos los dispositivos de Cisco en el servidor TFTP o en un servidor de administración de red.

1. Apague y encienda el dispositivo. Para apagar y encender el dispositivo, apáguelo y vuelva a encenderlo. Presione **Ctrl-C** dentro de los 5 segundos para evitar el inicio automático. Esta acción le coloca en el modo de mensaje del monitor ROM (ROMmon).

   ```
   !--- 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. Ejecute el comando `confreg` comando en el `rommon` mensaje Seleccione las opciones que aparecen aquí en negrita para la recuperación de contraseña:

   ```
   rommon 1 > set



   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
```

Nota: También puede utilizar el **confreg 0x2142**en el prompt ROMmon para establecer el valor del registro de configuración para saltar la configuración de inicio almacenada en la NVRAM.

```
rommon 1 > confreg 0x2142
You must reset or power cycle for the new configuration to take effect.
```

3. Ejecute el comando reset para que el módulo se reinicie.Debido a los cambios realizados en el paso 2, el módulo se reinicia pero ignora la configuración guardada.

```
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>
```

4. Asegúrese de que el valor del registro de configuración sea 0x2142.Este valor hace que el módulo arranque desde Flash sin una carga de la configuración guardada. Ejecute el comando **enable** en el indicador Switch para ir al modo de habilitación. Luego, ejecute el comando show version para verificar el valor del registro de configuración.

```
Switch>enable
Switch#show version
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
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#
```

5. Ejecute el comando configure memory o el comando copy startup-config running-config para copiar la NVRAM en la memoria.No ejecute el configure terminal , que muestra la configuración predeterminada del módulo.

```
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#
```

6. Ejecute el comando show ip interface brief para asegurarse de que las interfaces que estaban en uso anteriormente muestran un estado up/up.Si alguna de las interfaces que estaban en uso antes de que la recuperación de contraseña se muestre abajo, ejecute el comando no shutdown en esa interfaz para activar la interfaz.

7. Ejecute el comando write terminal o el comando show running-config para mostrar la configuración guardada en el módulo.

```
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#
```

Ahora ya puede cambiar la contraseña en el módulo.

8. Ejecute estos comandos para cambiar la contraseña:

```
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.
```

9. Asegúrese de volver a cambiar el valor del registro de configuración a 0x2102.Complete estos pasos en elprompt de configuración para cambiar y verificar el valor del registro de configuración.

```
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

!--- This step saves the configuration. Building  configuration...
Compressed configuration from 3061 bytes to 1365 bytes[OK]
c-4006-SUPIII#show version

!--- This step verifies the value change.

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
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#
```

En este momento, ha cambiado la contraseña.

Ejemplo de configuración y salida

Este ejemplo de resultado es el resultado del procedimiento de recuperación de contraseña en un Catalyst 4000 Supervisor Engine III.

```
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

```
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) 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 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
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>**enable**
Switch#**show version**
```
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
Image text-base: 0x00000000, database: 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 nonvolatile configuration memory.
```

Configuration register is 0x2142

```
Switch#

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#
```
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#
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
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
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#
```

Información Relacionada

- [Combinaciones de Secuencias Estándar de Teclas de Interrupción Durante la Recuperación de Contraseña](#)
- [Procedimientos para Recuperación de Contraseñas](#)
- [Soporte Técnico al switch LAN](#)
- [Soporte Técnico y Documentación - Cisco Systems](#)