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简介

本文档介绍了如何在配有 Supervisor 引擎 II-Plus (WS-X4013+)、Supervisor 引擎 II-Plus-TS (WS-X4013+TS)、Supervisor 引擎 II-Plus-10GE (WS-X4013+10GE)、Supervisor 引擎 III (WS-X4014)、Supervisor 引擎 IV (WS-X4515)、Supervisor 引擎 V (WS-X4516)、Supervisor 引擎 V-10GE (WS-X4516-10GE) 模块的 Catalyst 4500/4000 交换机，以及 Cisco Catalyst 4948、Cisco Catalyst 4948 10GE 和 Cisco Catalyst 4900M 交换机上恢复丢失的口令或未知的口令。

注意：在 Catalyst 4500/4000 系列交换机中，Supervisor 引擎 II+、II+10GE、II+TS、III、IV、V 和 V-10GE 仅支持 Cisco IOS® 软件，而 Supervisor 引擎 I 和 II 仅支持 Catalyst OS 软件。要恢复 Supervisor 引擎 I 或 II 上的口令，请参阅[运行 CatOS 的 Catalyst 1200、1400、2901、2902、2926T/F、2926GS/L、2948G、2980G、4000、5000、5500、6000 和 6500 的口令恢复过程](#)。

先决条件

要求

本文档没有任何特定的要求。

规则

有关文档规则的详细信息，请参阅 [Cisco 技术提示规则](#)。

逐步程序

完成以下步骤以恢复口令：

注意：执行这些步骤时，请确保您对交换机具有物理访问权限，并且对 Supervisor 引擎模块使用控制台访问权限。有关交换机控制台连接的详细信息，请参阅[将调制解调器连接到 Catalyst 交换机上的控制台端口](#)。

提示：如果按照所述步骤执行操作，交换机配置将不会丢失。作为最佳实践，Cisco 建议您在 TFTP 服务器或网络管理服务器上为所有 Cisco 设备的配置创建备份副本。

1. 为设备重新通电。要为设备重新通电，请将其关闭，然后再打开。在 5 秒内按 **Ctrl-C** 可防止

自动启动。此操作将使您进入 ROM Monitor (ROMmon) 提示符模式。!--- 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. 在 rommon 提示符处发出 **confreg** 命令。选择此处显示为粗体字的内容以用于口令恢复

```
rommon 1 > setrommon 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注意：还可在 ROMmon 提示符处使用 confreg 0x2142 命令，以设置配置寄存器值
，跳过存储在 NVRAM 中的启动配置。rommon 1 >confreg 0x2142You must reset or power cycle
for the new configuration to take effect.
```

3. 发出 **reset** 命令，使模块重新启动。由于在步骤 2 中所做的更改，模块将重新启动，但是会忽略保存的配置。rommon 2 > **reset**Resettingrommon 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/tacCopyright (c) 1986-2002 by cisco Systems, Inc.Compiled Thu 24-Jan-
02 17:34 by ccai00:00:21: %SNMP-5-COLDSTART: SNMP agent on host Switch is undergoing a
cold startSwitch>
```

4. 请确保配置寄存器值为 0x2142。该值可使模块从闪存重新启动，而无须载入保存的配置。在 Switch 提示符处发出 **enable** 命令，进入启用模式。然后，发出 **show version** 命令，检查配置寄存器值。

```
Switch> enableSwitch#show versionCisco 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/tacCopyright (c) 1986-2002 by cisco
Systems, Inc.Compiled Thu 24-Jan-02 17:34 by ccaiImage text-base: 0x00000000, data-base:
0x00AA2B8CROM: 12.1(10r)EY(1.21)Switch uptime is 5 minutesSystem returned to ROM by
reloadRunning default softwarecisco WS-C4006 (MPC8245) processor (revision 7) with 262144K
bytes of memory.Processor board ID FOX04183666Last reset from Reload32 Gigabit
Ethernet/IEEE 802.3 interface(s)467K bytes of non-volatile configuration
memory.Configuration register is 0x2142Switch#
```

5. 发出 **configure memory** 命令或 **copy startup-config running-config** 命令，将 NVRAM 复制到内存中。请勿发出 **configure terminal** 命令，此命令将会显示模块上的默认配置。

```
Switch#configure memoryUncompressed configuration from 1307 bytes to 3014
bytesSwitch#00:13:52: %SYS-5-CONFIG_I: Configured from memory by consolec-4006-SUPIII#
```

6. 发出 **show ip interface brief** 命令，确保以前使用的接口显示“up up”状态。如果在口令恢复之前使用的任何接口显示“down”，则在此接口上发出 **no shutdown** 命令以打开接口。

7. 发出 **write terminal** 命令或 **show running-config** 命令，显示保存在模块上的配置。c-4006-SUPIII#**show running-config** Building configuration...Current configuration : 3014 bytes!version 12.1no service padservice timestamps debug uptime-service timestamps log

uptimeno service password-encryption service compress-config!hostname c-4006-SUPIII!boot system flash bootflash:!\vtp mode transparent!--- *Output suppressed.*line con 0 stopbits 1line vty 0 4 login!endc-4006-SUPIII#现在可以开始更改模块上的口令。

8. 请发出以下这些命令以更改口令：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. 确保将配置寄存器值改回 0x2102。请在 config 提示符处完成以下这些步骤，以更改并验证配置寄存器值。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 consolec-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/tacCopyright (c) 1986-2002 by cisco Systems, Inc.Compiled Thu 24-Jan-02 17:34 by ccaiImage text-base: 0x00000000, database: 0x00AA2B8CROM: 12.1(10r)EY(1.21)c-4006-SUPIII uptime is 20 minutesSystem returned to ROM by reloadRunning default softwarecisco WS-C4006 (MPC8245) processor (revision 7) with 262144K bytes of memory.Processor board ID FOX04183666Last reset from Reload32 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#此时口令已更改。

输出示例/过程示例

此输出示例是在 Catalyst 4000 Supervisor 引擎 III 上执行口令恢复过程的结果。

```
c-4006-SUPIII> enablePassword: 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
effectrommon 2 > resetResetting .....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: 0x2B004180Decompressing the image :
#####
```

```
##### [OK]k2diags version 1.6prod: WS-X4014 part: 73-6854-07 serial:
JAB054606ZPower-on-self-test for Module 1: WS-X4014Status: (. = 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
PassedExiting to ios...Rommon reg: 0x2B000180Decompressing the image :
##### !--- Output
suppressed.##### [OK] Restricted Rights
LegendUse, duplication, or disclosure by the Government issubject to restrictions as set forth
in subparagraph(c) of the Commercial Computer Software - RestrictedRights clause at FAR sec.
52.227-19 and subparagraph(c) (1) (ii) of the Rights in Technical Data and ComputerSoftware
clause at DFARS sec. 252.227-7013. cisco Systems, Inc. 170 West Tasman Drive San Jose,
California 95134-1706Cisco 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/tacCopyright (c) 1986-2002 by cisco Systems, Inc.Compiled Thu 24-Jan-02
17:34 by ccaiImage text-base: 0x00000000, database: 0x00AA2B8Ccisco WS-C4006 (MPC8245) processor
(revision 7) with 262144K bytes of memory.Processor board ID FOX04183666Last reset from Reload32
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/tacCopyright (c) 1986-2002 by cisco
Systems, Inc.Compiled Thu 24-Jan-02 17:34 by ccai00:00:21: %SNMP-5-COLDSTART: SNMP agent on host
Switch is undergoing a cold startSwitch> enableSwitch# show versionCisco Internetwork Operating
System Software IOS (TM) Catalyst 4000 L3 Switch Software (cat4000-IS-M), Version 12.1(8a)EW,
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interface(s)467K bytes of nonvolatile configuration memory.Configuration register is
0x2142Switch#Switch#configure memoryUncompressed configuration from 1307 bytes to 3014 bytesc-
4006-SUPIII#00:13:52: %SYS-5-CONFIG_I: Configured from memory by consolec-4006-SUPIII#show
running-config Building configuration...Current configuration : 3014 bytes!version 12.1no
service padservice 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 500ip subnet-zero 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 20.1.1.1 255.255.255.0!!--
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 1line vty 0 4 login!endc-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 0x2102c-
4006-SUPIII(config)#^Zc-4006-SUPIII#00:19:01: %SYS-5-CONFIG_I: Configured from console by
consolec-4006-SUPIII#write memoryBuilding configuration...Compressed configuration from 3061
bytes to 1365 bytes[OK]c-4006-SUPIII#show versionCisco 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/tacCopyright (c) 1986-2002 by cisco Systems,
Inc.Compiled Thu 24-Jan-02 17:34 by ccaiImage text-base: 0x00000000, database: 0x00AA2B8CROM:
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default softwarecisco WS-C4006 (MPC8245) processor (revision 7) with 262144K bytes of
memory.Processor board ID FOX04183666Last reset from Reload32 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#
```

相关信息

- [口令恢复过程中的标准中断键顺序组合](#)
- [密码恢复规程](#)

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