

恢復採用Supervisor Engine的Catalyst 4500/4900交換器的密碼

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簡介

本文說明如何在具有執行Cisco IOS®軟體的Supervisor Engine的Catalyst 4500/4900交換器上復原遺失的密碼。

必要條件

需求

本文件沒有特定需求。

採用元件

本文件所述內容不限於特定軟體和硬體版本。

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除（預設）的組態來啟動。如果您的網路運作中，請確保您瞭解任何指令可能造成的影響。

慣例

如需文件慣例的詳細資訊，請參閱思科技術提示慣例。

背景資訊

附註：在Catalyst 4500/4000系列交換器中，Supervisor Engine II+、II+10GE、II+TS、III、IV、V和V-10GE僅支援Cisco IOS軟體，而Supervisor Engine I和II僅支援Catalyst OS軟體。若要復原Supervisor Engine I或II上的密碼，請參閱[執行CatOS的Catalyst的密碼復原程式](#)。

本文描述如何在具有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)的Catalyst上恢復丟失或未知的密碼Supervisor Engine IV(WS-X4515)、Supervisor Engine V(WS-X4516)、Supervisor Engine V-10GE(WS-X4516-10GE)模組、Cisco Catalyst 4948、Cisco Catalyst 4948 10GE和Cisco Catalyst 4900M交換機。

配置流程

在Catalyst 4500/4900交換器上復原密碼：

附註：在執行這些步驟時，請確保您對交換機具有物理訪問權，並且使用控制檯訪問Supervisor Engine模組。如需交換器主控台連線的詳細資訊，請參閱[將資料機連線到Catalyst交換器上的主控台連線埠](#)。

提示：如果按照上述步驟操作，交換機配置不會丟失。作為最佳實踐，思科建議您在TFTP伺服器或網路管理伺服器上擁有所有思科裝置配置的備份副本。

1. 為裝置重新通電。要重新通電，請關閉裝置，然後重新開啟。在5秒內按**Ctrl-C**可阻止自動啟動。此操作將您置於ROM監控(ROMmon)提示模式。

```
!--- 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. 發出 **confreg** 命令 **rommon** 提示。選擇此處以粗體顯示的內容，以便進行密碼恢復：

```
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
```

附註：您還可以使用 `confreg 0x2142` 命令，將配置暫存器值設定為繞過NVRAM中儲存的啟動配置。

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

3. 發出 `reset` 命令，以便模組重新啟動。由於您在步驟2中所做的更改，模組將重新啟動，但會忽略儲存的配置。

```
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. 確保配置暫存器值為0x2142。此值使模組從快閃記憶體啟動，而不載入已儲存的配置。在 `Switch` 提示時發出 `enable` 命令以進入啟用模式。然後，發出 `show version` 命令以檢查配置暫存器值。

```
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. 發出 **configure memory** 命令或 **copy startup-config running-config** 命令將NVRAM複製到記憶體中。請勿發出 **configure terminal** 命令，顯示模組上的預設配置。

```
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. 發出 **show ip interface brief** 命令，以確保之前使用的介面顯示`up/up`態。如果在口令恢復之前使用的任何介面顯示`down`，請在該介面上發出`no shutdown`命令以啟用該介面。
7. 發出**write terminal**命令或**show running-config**命令以顯示模組上儲存的配置。

```
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#
```

現在，您可以更改模組上的密碼了。

8. 發出以下命令更改密碼：

```
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. 請確保將配置暫存器值更改回0x2102。在configprompt(配置提示符)下完成這些步驟，以更改並驗證配置暫存器值。

```
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 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#
```

```
此時，您已更改密碼。
```

配置和輸出示例

此範例輸出是Catalyst 4000 Supervisor Engine III上的密碼復原程式的結果。

```
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]

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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#**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#
```

```
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#
```

相關資訊

- [密碼復原期間的標準Break按鍵順序組合](#)
- [密碼復原程序](#)
- [LAN交換器產品支援](#)
- [技術支援與文件 - Cisco Systems](#)

關於此翻譯

思科已使用電腦和人工技術翻譯本文件，讓全世界的使用者能夠以自己的語言理解支援內容。請注意，即使是最佳機器翻譯，也不如專業譯者翻譯的內容準確。Cisco Systems, Inc. 對這些翻譯的準確度概不負責，並建議一律查看原始英文文件（提供連結）。