

Ripristino delle password sugli switch Catalyst 4500/4900 con Supervisor Engine

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Introduzione

In questo documento viene descritto come recuperare una password persa su uno switch Catalyst 4500/4900 con Supervisor Engine e software Cisco IOS®.

Prerequisiti

Requisiti

Nessun requisito specifico previsto per questo documento.

Componenti usati

Il documento può essere consultato per tutte le versioni software o hardware.

Le informazioni discusse in questo documento fanno riferimento a dispositivi usati in uno specifico ambiente di emulazione. Su tutti i dispositivi menzionati nel documento la configurazione è stata ripristinata ai valori predefiniti. Se la rete è operativa, valutare attentamente eventuali conseguenze derivanti dall'uso dei comandi.

Convenzioni

Per ulteriori informazioni sulle convenzioni usate, consultare il documento Cisco sulle convenzioni nei suggerimenti tecnici.

Premesse

Nota: Negli switch Catalyst serie 4500/4000, i Supervisor Engine II+, II+10GE, II+TS, III, IV, V e V-10GE supportano solo il software Cisco IOS e i Supervisor Engine I e II supportano

solo il software Catalyst OS. Per recuperare la password sui Supervisor Engine I o II, fare riferimento alla [procedura di recupero della password per il Catalyst con CatOS](#).

Questo documento descrive come recuperare una password persa o sconosciuta su uno 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 WS-X4516), Supervisor Engine V-10GE (WS-X4516-10GE), Cisco Catalyst 4948, Cisco Catalyst 4948-10GE e switch Cisco Catalyst 4900M.

Processo di configurazione

Per recuperare la password sullo switch Catalyst 4500/4900:

Nota: accertarsi di disporre di accesso fisico allo switch e di utilizzare l'accesso da console al modulo Supervisor Engine durante l'esecuzione di queste operazioni. Per ulteriori informazioni sul collegamento della console dello switch, consultare il documento sulla [connessione di un modem alla porta console sugli switch Catalyst](#).

Suggerimento: La configurazione dello switch non viene persa se si segue la procedura descritta. Come buona norma, Cisco consiglia di avere una copia di backup della configurazione di tutti i dispositivi Cisco sul server TFTP o su un server di gestione della rete.

1. Spegnerne e riaccendere il dispositivo. Per spegnere e riaccendere il dispositivo, spegnerlo e riaccenderlo. Premere **Ctrl-C** entro 5 secondi per impedire l'avvio automatico. Questa azione attiva la modalità del prompt ROM monitor (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. Utilizzare il **confreg** al **rommon**. Selezionare le opzioni da visualizzare in grassetto per il recupero della password:

```
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: È inoltre possibile utilizzare il `confreg 0x2142` al prompt ROMmon per impostare il valore del registro di configurazione in modo da ignorare la configurazione di avvio archiviata nella NVRAM.

```

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

```

- Utilizzare il `reset` in modo che il modulo venga riavviato. In seguito alle modifiche apportate al passaggio 2, il modulo viene riavviato ma la configurazione salvata viene ignorata.

```

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>

```

- Verificare che il valore del registro di configurazione sia `0x2142`. Questo valore consente l'avvio del modulo da Flash senza caricare la configurazione salvata. Eseguire il comando `enable` al prompt dello switch per passare alla modalità di abilitazione. Quindi, eseguire il comando `show version` per controllare il valore del registro di configurazione.

```

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. Utilizzare il **configure memory O copy startup-config running-config per copiare la NVRAM nella memoria**. Non emettere il **configure terminal**, che mostra la configurazione predefinita sul modulo.

```
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. Utilizzare il **show ip interface brief** per verificare che le interfacce in uso in precedenza mostrino lo stato **up/up**. Se una delle interfacce in uso prima del recupero della password **non è disponibile**, usare il comando **no shutdown** su quell'interfaccia per riattivare l'interfaccia.
7. Eseguire il comando **write terminal** o il comando **show running-config** per visualizzare la configurazione salvata sul modulo.

```
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#
```

A questo punto è possibile modificare la password del modulo.

8. Utilizzare i seguenti comandi per modificare la password:

```

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. Accertarsi di modificare nuovamente il valore del registro di configurazione a 0x2102. Completare la procedura seguente al prompt di configurazione per modificare e verificare il valore del registro di configurazione.

```

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#

```

A questo punto, la password è stata modificata.

Esempio di configurazione e output

Questo output di esempio è il risultato della procedura di recupero della password su 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]

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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
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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#
```

Informazioni correlate

- [Combinazione di sequenze di Break Key standard durante il recupero della password](#)
- [Procedure di recupero della password](#)
- [Switch LAN - Supporto dei prodotti](#)
- [Documentazione e supporto tecnico – Cisco Systems](#)

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