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简介

本文档介绍如何恢复**启用口令**和**启用加密口令**。这些口令可对特权执行和配置模式的访问权限进行保护。**启用口令**可以恢复，但是**启用加密口令**经过了加密，必须使用新口令进行替换。请使用本文档介绍的过程替换 **enable secret** 口令。

要在 Cisco 806、826、827、828、831、836 和 837 系列路由器上恢复口令，请参阅 [Cisco 806、826、827、828、831、836 和 837 系列路由器的口令恢复过程](#)。

注意：某些 Cisco 800 系列路由器可能出现引导问题。Cisco 801、802、803、804，805，811和813路由器启动到TinyRom在通电或，在他们保存从控制台端口的所有配置有Cisco IOS软件版本12.1(3)及以上版本的后。有关此问题的示例，请参阅 [Field Notice : Cisco 801-805 及 Cisco 811 和 813 引导到 TinyROM](#)。

先决条件

要求

本文档没有任何特定的要求。

使用的组件

本文档中的信息基于以下硬件版本：

- Cisco 801 系列路由器
- Cisco 802 系列路由器
- Cisco 803 系列路由器
- Cisco 804 系列路由器
- Cisco 805 系列路由器
- Cisco 811 系列路由器
- Cisco 813 系列路由器

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您使用的是真实网络，请确保您已经了解所有命令的潜在影响。

相关产品

有关如何恢复相关产品口令的信息，请参阅[口令恢复过程](#)。

规则

有关文档规则的信息，请参阅[Cisco 技术提示规则](#)。

逐步程序

请执行以下步骤以恢复口令：

1. 将终端或带终端仿真功能的 PC 连接到路由器的控制台端口。使用以下终端设置：9600 波特率无奇偶校验8 个数据位1 个停止位无流控制有关所需控制台电缆的规范，请参阅[控制台和 AUX 端口布线指南](#)。
2. 使用电源开关关闭路由器，然后重新打开。
3. 在启动后的 60 秒内按下终端键盘上的 **Break** 键，使路由器进入 ROMMON 模式。如果中断顺序不起作用，请参阅[口令恢复过程中的标准break](#)键序列组合，
4. 在 boot# 提示符处键入 **set**，并记录配置寄存器的当前值。

```
boot#set set baud =9600
set data-bits =8 set parity =none set stop-bits =1 set console-flags
=0 set mac-address =0050.7307.C329 set unit-ip =10.200.40.65 set serv-ip
=255.255.255.255 set netmask =255.255.252.0 set gate-ip
=10.200.40.1 set pkt-timeout =8 set tftp-timeout =16 set boot-action =flashset
file-name ="c800-nsy6-mw.122-10b.bin" set watchdog =off set prompt
="boot" set ios-conf =0x2102 !--- The ios-conf variable sets the value for the
!--- configuration register. Record this value.
```
5. 在看到boot#提示后输入set ios-conf = 142。**注意：**如果闪存是完好的，则最佳设置为 142。如果未安装闪存或者已擦除，则使用 141。使用此设置，您可查看或擦除配置，但不能更改口令。
6. 在 boot# 提示符处键入 **boot**，以初始化路由器。路由器将会重新启动，但是会忽略保存的配置。
7. 在每个设置问题后键入 **no** 或按 **Ctrl-C**，跳过初始设置过程。
8. 在 Router> 提示符处键入 **enable**。一旦出现 Router# 提示符，您就将进入启用模式。
9. 键入 **configure memory** 或 **copy startup-config running-config**，将非易失性 RAM (NVRAM) 复制到内存中。**重要信息：**请勿键入 **copy running-config startup-config** 或 **write**。这些命令将会擦除您的启动配置。
10. 键入 **show running-config**。**show running-config** 命令将会显示路由器的配置。在此配置中，在所有接口下将会出现 **shutdown** 命令，显示当前关闭的所有接口。此外，口令（启用口令、启用加密、vty、控制台口令）可能是加密格式，也可能是未加密格式。您可重复使用未加密的口令，您必须将加密的口令更改为新口令。
11. 键入 **configure terminal**。此时将会显示 hostname(config)# 提示符。
12. 键入 **enable secret <password>**，以更改启用加密口令。例如：

```
hostname(config)#enable
secret cisco
```
13. 在所用的每个接口上发出 **no shutdown** 命令。如果发出 **show ip interface brief** 命令，则要使用的每个接口都显示 *up up*。
14. 键入 **config-register <configuration_register_setting>**。其中 **configuration_register_setting** 的

- 值为步骤 2 中记录的值或 0x2102。例如：`hostname(config)#config-register 0x2102`
15. 按 **Ctrl-z** 或 **end**，离开配置模式。此时将会显示 `hostname#` 提示符。
 16. 键入 **write mem** 或 **copy running startup**，以提交更改。
 17. 键入 **reload**。一旦路由器重新加载，配置寄存器值将从 **0x142** 更改成 **0x2102**。

输出示例

本部分提供了一个口令恢复过程的示例。此示例是使用 Cisco 803 系列路由器创建的。即使您使用的不是 Cisco 803 系列路由器，以下输出也可为您的产品体验提供示例。

```
Router>show versionCisco Internetwork Operating System SoftwareIOS (tm) C800 Software (C800-
NSY6-MW), Version 12.2(10b), RELEASE SOFTWARE (fc1)Copyright (c) 1986-2002 by cisco Systems,
Inc.Compiled Thu 11-Jul-02 19:53 by pwadeImage text-base: 0x000F2000, data-base: 0x0086C000ROM:
TinyROM version 1.0(3)leased uptime is 1 minuteSystem returned to ROM by power-onSystem image
file is "flash:c800-nsy6-mw.122-10b.bin"Cisco C803 (MPC850) processor (revision 1) with 52940K
bytes of virtual memory.Processor board ID JAD03325506 (2953252)CPU part number 0x2100X.25
software, Version 3.0.0.Bridging software.Basic Rate ISDN software, Version 1.1.2 POTS Ports1
Ethernet/IEEE 802.3 interface(s)1 ISDN Basic Rate interface(s)12M bytes of physical memory
(DRAM)8K bytes of non-volatile configuration memory12M bytes of flash on board (8M from flash
card)Configuration register is 0x2102!--- The router was just powercycled. !--- At bootup a
break sequence is sent to the router. TinyROM version 1.0(3)Fri Apr 30 18:22:12 1999Copyright
(c) 1998-1999 by cisco Systems, Inc.All rights reserved.POST ..... OK. 12MB DRAM, 8MB
Flash.boot# set set baud =9600 set data-bits =8 set parity =none set
stop-bits =1 set console-flags =0 set mac-address =0050.7307.C329 set unit-ip
=10.200.40.65 set serv-ip =255.255.255.255 set netmask =255.255.252.0
set gate-ip =10.200.40.1 set pkt-timeout =8 set tftp-timeout =16 set boot-action
=flashset file-name ="c800-nsy6-mw.122-10b.bin" set watchdog =off set prompt
="boot" set ios-conf =0x2102boot# set ios-conf = 142 !--You can use 0x142 or
0x2142.boot# bootBooting "c800-nsy6-mw.122-10b.bin"..., Restricted Rights LegendUse,
duplication, or disclosure by the Government is subject 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 SoftwareIOS (tm) C800 Software
(C800-Y6-MW), Version12.2(10b), RELEASE SOFTWARE (fc1)Copyright (c) 1986-2002 by cisco Systems,
Inc.Compiled Thu 11-Jul-02 19:53 by pwadeImage text-base: 0x000F2000, data-base: 0x0086C000Cisco
C803 (MPC850) processor (revision 1) with 52940K bytes of virtual memory.Processor board ID
JAD03325506 (2953252)CPU part number 0x2100X.25 software, Version 3.0.0.Bridging software.Basic
Rate ISDN software, Version 1.1.2 POTS Ports1 Ethernet/IEEE 802.3 interface(s)1 ISDN Basic Rate
interface(s)12M bytes of physical memory (DRAM)8K bytes of non-volatile configuration memory12M
bytes of flash on board (8M from flash card) --- System Configuration Dialog ---Would you
like to enter the initial configuration dialog? [yes/no]: noPress RETURN to get started! (press
Enter)00:26:02: %SYS-5-RESTART: System restarted --Cisco Internetwork Operating System
SoftwareIOS (tm) C800 Software (C800-NSY6-MW), Version 12.2(10b), RELEASE SOFTWARE
(fc1)Copyright (c) 1986-2002 by cisco Systems, Inc.Compiled Thu 11-Jul-02 19:53 by
pwade00:26:02: %SNMP-5-COLDSTART: SNMP agent on host Router is undergoing a cold start00:26:02:
%LINK-5-CHANGED: Interface BRI0, changed state to administratively down00:26:03: %LINEPROTO-5-
UPDOWN: Line protocol on Interface BRI0, changed state to down00:26:03: %LINK-5-CHANGED:
Interface Ethernet0, changed state to administratively down00:26:04: %LINEPROTO-5-UPDOWN: Line
protocol on Interface Ethernet0, changed state to downRouter>enableRouter#copy startup-config
running-configDestination filename [running-config]? (press Enter)% Login disabled on line 1,
until 'password' is set% Login disabled on line 2, until 'password' is set% Login disabled on
line 3, until 'password' is set% Login disabled on line 4, until 'password' is set% Login
disabled on line 5, until 'password' is set797 bytes copied in 2.304 secs (346
bytes/sec)00:27:47: %LINK-3-UPDOWN: Interface BRI0:1, changed state to down00:27:47: %LINK-3-
UPDOWN: Interface BRI0:2, changed state to down00:27:48: %LINEPROTO-5-UPDOWN: Line protocol on
Interface BRI0:1, changed state to down00:27:48: %LINEPROTO-5-UPDOWN: Line protocol on Interface
BRI0:2, changed state to down
```

注意：将配置文件从 NVRAM 复制到 RAM 后，您可执行以下某个过程：

- 密码恢复？请执行此步骤，如果在纯文本格式)的特权密码(配置。
- 密码替换？请执行此步骤，如果在已加密格式)的启用秘密密码(根据密码如何配置最后已配置的

注意：要检查在路由器上配置口令的格式，请使用 **show running-config** 命令，并在配置中查找启用口令或启用加密口令。有关详细信息，请参阅[启用口令恢复示例](#)和[口令替换示例](#)。

[启用口令恢复示例](#)

show running-config 命令的此示例输出表示已配置启用口令。

```
Router#show running-configBuilding configuration...Current configuration : 820 bytes!
version 12.2
service timestamps debug uptime
service timestamps log uptime
no service password-encryption!
hostname Router!
boot system flash c800-nsy6-mw.122-10b.bin
enable password cisco!
--- Here the password is plain text. You can either maintain !--- the same password or replace it with a new password. !--- Output omitted.
```

[口令替换示例](#)

show running-config 命令的此示例输出表示已配置启用加密口令。结果，如此示例所示，您可执行口令替换。

```
Router#show running-configBuilding configuration...Current configuration : 835 bytes!
version 12.2
service timestamps debug uptime
service timestamps log uptime
no service password-encryption!
hostname Router!
boot system flash c800-nsy6-mw.122-10b.bin
enable secret 5
$1$080N$NjrO/6P5jpi0PZYzAj/vX0!
--- Password replacement is performed because !--- the password is encrypted. !--- Output omitted.
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#enable secret letmein
Router(config)#00:03:39: %SYS-5-CONFIG_I: Configured from console by console
```

一旦完成口令恢复或替换，则剩余步骤都相同，如此示例所示：

```
Router#show ip interface brief
Interface IP-Address OK? Method Status
ProtocolBRI0 unassigned YES TFTP administratively down downBRI0:1
unassigned YES unset administratively down downBRI0:2 unassigned YES
unset administratively down downEthernet0 10.200.40.65 YES TFTP administratively
down down
Router#configure terminal
Enter configuration commands, one per line. End with
CNTL/Z.
Router(config)#interface ethernet 0
Router(config-if)#no shutdown
Router(config-if)#00:30:02: %LINK-3-UPDOWN: Interface Ethernet0, changed state to up
00:30:03: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0, changed state to up
Router(config)#config-reg
0x2102
Router(config)#^Z
Router#00:04:36: %SYS-5-CONFIG_I: Configured from console by
console
Router#write memory
```

发出 **config-reg 0x2102** 命令后，不会立即应用新的配置寄存器值。只有在重新加载路由器之后，才会应用新值。**show version** 命令的此输出显示当前值 (0x142) 和下次重新加载后应用的值 (0x2102)。

```
Router#show versionCisco Internetwork Operating System Software
IOS (tm) C800 Software (C800-NSY6-MW), Version 12.2(10b), RELEASE SOFTWARE (fc1)
Copyright (c) 1986-2002 by cisco Systems, Inc.
Compiled Thu 11-Jul-02 19:53 by pwade
Image text-base: 0x000F2000, data-base: 0x0086C000
ROM: TinyROM version 1.0(3)
leased uptime is 7 minutes
System returned to ROM by power-on
System image file is "flash:c800-nsy6-mw.122-10b.bin"
Cisco C803 (MPC850) processor (revision 1) with 52940K
bytes of virtual memory.
Processor board ID JAD03325506 (2953252)
CPU part number 0x2100X.25
software, Version 3.0.0.
Bridging software.
Basic Rate ISDN software, Version 1.1.2
POTS Ports1
Ethernet/IEEE 802.3 interface(s)1
ISDN Basic Rate interface(s)12M bytes of physical memory
(DRAM)8K bytes of non-volatile configuration memory12M bytes of flash on board (8M from flash
card)
Configuration register is 0x142 !--- This value becomes 0x2102 at next reload.
Router#show versionCisco Internetwork Operating System Software
IOS (tm) C800 Software (C800-NSY6-MW),
Version 12.2(10b), RELEASE SOFTWARE (fc1)
Copyright (c) 1986-2002 by cisco Systems, Inc.
Compiled Thu 11-Jul-02 19:53 by pwade
Image text-base: 0x000F2000, data-base: 0x0086C000
ROM: TinyROM
version 1.0(3)
leased uptime is 0 minutes
System returned to ROM by power-on
System image file is
```

"flash:c800-nsy6-mw.122-10b.bin" Cisco C803 (MPC850) processor (revision 1) with 52940K bytes of virtual memory. Processor board ID JAD03325506 (2953252) CPU part number 0x2100X.25 software, Version 3.0.0. Bridging software. Basic Rate ISDN software, Version 1.1.2 POTS Ports1 Ethernet/IEEE 802.3 interface(s)1 ISDN Basic Rate interface(s)12M bytes of physical memory (DRAM)8K bytes of non-volatile configuration memory12M bytes of flash on board (8M from flash card)**Configuration register is 0x2102**

[相关信息](#)

- [密码恢复规程](#)
- [控制台和 AUX 端口布线指南](#)
- [Field Notice : Cisco 801-805 及 Cisco 811 和 813 引导到 TinyROM](#)
- [Cisco 806、827 和 837 系列路由器的密码恢复流程](#)
- [口令恢复过程中的标准中断键顺序组合](#)
- [技术支持 - Cisco Systems](#)