Cisco 801、802、803、804， 805个， 811个和813个系列路由器的密码恢复过程

Contents

Introduction

本文档介绍了如何恢复 **enable password** 和 enable secret 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。

参考Cisco 806、826、827、828的密码恢复流程， 831， 836和837系列路由器为了恢复在Cisco 806、826、827、828的一个密码， 831， 836和837系列路由器。

Note: 您可以遇到某Cisco 800 Series Routers的引导程序问题。Cisco 801、802、803、804， 805， 811和813路由器引导到TinyRom在通电或，在他们从中与Cisco IOS软件版本12.1(3)及以上版本后的控制台端口拯救所有配置。有关此问题的示例，请参阅 Field Notice：Cisco 801-805及Cisco 811及813引导到TinyRom关于要求的受影响的单元序列号和程序的详情为了解决引导程序问题。

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

本文档中的信息基于以下硬件版本：

- Cisco 801 Series Router
- Cisco 802 Series Router
- Cisco 803 Series Router
- Cisco 804 Series Router
- Cisco 805 Series Router
- Cisco 811 Series Router
- Cisco 813 Series Router

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.If your network is live, make sure that you understand the potential impact of any command.

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。

Conventions

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. 附加终端或PC有终端仿真的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 个停止位无流控制所需的控制台电缆规格在布线指南描述控制台和Aux端口的。
2. 请使用电源开关为了关闭路由器，然后翻回路由器。
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，获取其他键组合。
4. 键入**集**在boot-提示，并且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     =flash
set 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. 键入**set ios-conf = 142**在boot-提示。**Note:** 如果闪存是完整的，最佳的设置是142。如果没有安装闪存也没有被清除，使用141。使用此设置，您能查看或清除配置，但是您不能更改密码。

6. 键入**引导程序**在boot-提示为了初始化路由器。路由器重新启动，但是忽略已保存的配置。
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. 键入**enable (event)**在Router>提示。一旦Router-提示出现，您是在特权模式。
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** 或执行写操作。这些erase命令您的启动配置。
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。另外，密码(特权密码、enable secret、VTY，控制台密码)在加密或未加密的格式。您能重新使用未加密的密码。您必须更改加密的密码到一个新的密码。
11. 类型**配置终端**。hostname(config)-提示出现。
12. 键入 **enable secret <password>**，以更改 enable secret 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。如果发出一**show ip interface brief命令**，您要用尽显示*的*每个接口。
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。提示出现。
16. 键入**write mem或copy running startup**为了确认更改。
17. 键入**重新加载**。一旦路由器重新载入，配置寄存器值从**0x142**变成**0x2102**。

输出示例:示例

本部分提供了一个口令恢复过程的示例。此示例用Cisco 803 Series Router创建了。即使您不使用 Cisco 803 Series Router，此输出提供什么的示例您在您的产品应该体验。

```
Router>show version
Cisco 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 1 minute
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 0x2100
X.25 software, Version 3.0.0.
Bridging software.
Basic Rate ISDN software, Version 1.1.
2 POTS Ports
1 Ethernet/IEEE 802.3 interface(s)
1 ISDN Basic Rate interface(s)
12M bytes of physical memory (DRAM)
8K bytes of non-volatile configuration memory
12M 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 1999 Copyright (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    =flash
set file-name      ="c800-nsy6-mw.122-10b.bin"
set watchdog       =off
set prompt         ="boot"
set ios-conf       =0x2102


boot# set ios-conf = 142 !--You can use 0x142 or 0x2142. boot# boot

Booting "c800-nsy6-mw.122-10b.bin"...,
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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) C800 Software (C800-Y6-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

Cisco C803  (MPC850) processor (revision 1) with 52940K bytes of virtual memory.
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2 POTS Ports
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1 ISDN Basic Rate interface(s)
12M bytes of physical memory (DRAM)
8K bytes of non-volatile configuration memory
12M bytes of flash on board (8M from flash card)


    --- System Configuration Dialog ---

Would you like to enter the initial configuration dialog? [yes/no]: no
```

```
Press RETURN to get started! (press Enter)

00:26:02: %SYS-5-RESTART: System restarted --
Cisco 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
00:26:02: %SNMP-5-COLDSTART: SNMP agent on host Router is undergoing a cold start
00:26:02: %LINK-5-CHANGED: Interface BRI0, changed state to administratively down
00:26:03: %LINEPROTO-5-UPDOWN: Line protocol on Interface BRI0, changed state to down
00:26:03: %LINK-5-CHANGED: Interface Ethernet0, changed state to administratively down
00:26:04: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0, changed state
to down

Router>enable

Router#copy startup-config running-config
Destination 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 set
797 bytes copied in 2.304 secs (346 bytes/sec)

00:27:47: %LINK-3-UPDOWN: Interface BRI0:1, changed state to down
00:27:47: %LINK-3-UPDOWN: Interface BRI0:2, changed state to down
00:27:48: %LINEPROTO-5-UPDOWN: Line protocol on Interface BRI0:1, changed state to down
00:27:48: %LINEPROTO-5-UPDOWN: Line protocol on Interface BRI0:2, changed state to down
```

Note: 在您从NVRAM复制配置文件到RAM后，您可执行这些程序之一：

- 密码恢复—请执行此程序，如果在无格式文本格式)的**特权密码**(配置。
- 密码替换—请执行此程序，如果(以被加密的格式)的**enable secret password**根据如何被配置最后配置密码。

Note: 为了检查密码在路由器被配置的格式，请使用**show running-config命令**，并且寻找**特权密码**或**enable secret password**在配置。欲知更多信息，请参见特权密码恢复密码替换示例和示例。

特权密码恢复示例

show running-config命令的此输出示例表示，配置**特权密码**。

```
Router#show running-config
Building 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.
```

密码替换示例

show running-config命令的此输出示例表示，配置enable secret password。结果，如此示例所显示，密码替换可以执行：

```
Router#show running-config
Building 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 $1$O80N$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
```

一旦密码恢复或更换完成，如此示例所显示，剩余步骤是相同的，：

```
Router#show ip interface brief
Interface   IP-Address      OK?    Method   Status                Protocol
BRI0        unassigned      YES    TFTP     administratively down  down
BRI0:1      unassigned      YES    unset    administratively down  down
BRI0:2      unassigned      YES    unset    administratively down  down
Ethernet0   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
```

在您发出config-reg 0x2102命令后，新的配置寄存器值不立即适用。在路由器被重新载入之后，新的值适用。show version命令的此输出显示当前值(0x142)和在下一次重新加载的值(0x2102)以后适用。

```
Router#show version
Cisco 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 0x2100
X.25 software, Version 3.0.0.
Bridging software.
Basic Rate ISDN software, Version 1.1.
2 POTS Ports
1 Ethernet/IEEE 802.3 interface(s)
1 ISDN Basic Rate interface(s)
12M bytes of physical memory (DRAM)
8K bytes of non-volatile configuration memory
12M bytes of flash on board (8M from flash card)

Configuration register is 0x142
 !--- This value becomes 0x2102 at next reload.

Router#show version
Cisco 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 0x2100
X.25 software, Version 3.0.0.
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Basic Rate ISDN software, Version 1.1.
2 POTS Ports
1 Ethernet/IEEE 802.3 interface(s)
1 ISDN Basic Rate interface(s)
12M bytes of physical memory (DRAM)
8K bytes of non-volatile configuration memory
12M bytes of flash on board (8M from flash card)

Configuration register is 0x2102
```

Related Information

- 密码恢复流程
- 控制台和Aux端口的布线指南
- Field Notice：Cisco 801-805及Cisco 811及813引导到TinyRom
- Cisco 806、827及837系列路由器的密码恢复流程
- 在密码恢复期间的标准break键顺序组合
- Technical Support - Cisco Systems