

Cisco 2600和2800系列路由器的密码恢复流程

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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。

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 2600 系列路由器
- Cisco 2800 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

此部分描述两个步骤恢复您的密码。

过程 1

完成这些步骤为了恢复您的密码：

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如何使用电缆将终端连接到控制台端口或 AUX 端口的信息，请参阅以下文档：[控制台和 AUX 端口布线指南将终端连接到 Catalyst 交换机的控制台端口将终端连接到 Catalyst 2948G-L3、4908G-L3 和 4840G 系列交换机](#)
2. 如果可以访问路由器，请在提示符处键入 **show version**，并且记录配置寄存器设置。请参阅[口令恢复过程示例](#)，查看 **show version** 命令的输出。**注意：**配置寄存器通常设置为 0x2102 或 0x102。如果（由于丢失登录口令或 TACACS 口令）无法再访问路由器，则完全可以假设配置寄存器已设置为 0x2102。
3. 使用电源开关关闭路由器，然后重新打开。**重要说明：**要在 Cisco 6400 上模拟此步骤，请将节点路由处理器 (NRP) 或节点交换机处理器 (NSP) 卡拔出，然后再插入。要在带有 NI-2 的 Cisco 6x00 上模拟此步骤，请将 NI-2 卡拔出，然后再插入。
4. 在通电后的 60 秒内按下终端键盘上的**中断键**，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。
5. 在 rommon 1> 提示符处键入 **confreg 0x2142**，以便从闪存启动。此步骤将会跳过存储口令的启动配置。
6. 在 rommon 2> 提示符处键入 **reset**。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**。您将进入启用模式，此时应看到 Router# 提示符。
9. 键入 **configure memory** 或 **copy startup-config running-config**，将非易失性 RAM (NVRAM) 复制到内存中。**警告：**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应显示 **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 memory** 或 **copy running-config startup-config**，以提交更改。

过程 2

完成这些步骤为了恢复您的密码：

1. 关闭路由器。
2. 删除在路由器的上一步的微型闪存。
3. 打开路由器电源。
4. 一旦Rommon1>提示符出现，请输入此命令：

```
confreg 0x2142
```

5. 插入微型闪存。
6. 键入**重置**。
7. 当提示您输入**初始配置时**，请键入**没有**，并且按回车。
8. 在Router>提示符，请键入**enable (event)**。
9. 在Router-提示符，请输入**configure memory**命令，并且按回车为了复制启动配置到运行的配置。
10. 请使用**config t**命令为了输入全局配置模式。
11. 请使用此命令为了创建新用户用户名和密码：

```
router(config)#username cisco privilege 15 password  
cisco
```

12. 请使用此命令为了更改引导说明：

```
config-register  
0x2102
```

13. 请使用此命令为了保存配置：

```
write  
memory
```

14. 重新加载路由器，然后请使用新用户用户名和密码登陆到路由器。

密码恢复程序示例

本部分提供了一个口令恢复过程的示例。此示例是使用 Cisco 2600 系列路由器创建的。即使您使用的不是 Cisco 2600 系列路由器，以下输出也可为您的产品体验提供示例。

```
Router>enable  
Password:  
Password:  
Password:  
% Bad secrets
```

```
Router>show version  
Cisco Internetwork Operating System Software  
IOS (tm) C2600 Software (C2600-IS-M), Version 12.0(7)T, RELEASE SOFTWARE (fc2)  
Copyright (c) 1986-1999 by cisco Systems, Inc.  
Compiled Tue 07-Dec-99 02:21 by phanguye  
Image text-base: 0x80008088, data-base: 0x80C524F8
```

ROM: System Bootstrap, Version 11.3(2)XA4, RELEASE SOFTWARE (fc1)

Router uptime is 3 minutes
System returned to ROM by abort at PC 0x802D0B60
System image file is "flash:c2600-is-mz.120-7.T"

cisco 2611 (MPC860) processor (revision 0x202) with 26624K/6144K bytes of memory.
Processor board ID JAB031202NK (3878188963)
M860 processor: part number 0, mask 49
Bridging software.
X.25 software, Version 3.0.0.
Basic Rate ISDN software, Version 1.1.
2 Ethernet/IEEE 802.3 interface(s)
2 Serial(sync/async) network interface(s)
1 ISDN Basic Rate interface(s)
32K bytes of non-volatile configuration memory.
8192K bytes of processor board System flash partition 1 (Read/Write)
8192K bytes of processor board System flash partition 2 (Read/Write)

Configuration register is 0x2102

Router>

!--- The router was just powercycled, and during bootup a !--- break sequence was sent to the router. ! *** System received an abort due to Break Key *** signal= 0x3, code= 0x500, context= 0x813ac158 PC = 0x802d0b60, Vector = 0x500, SP = 0x80006030 rommon 1 > **confreg 0x2142**

You must reset or power cycle for new config to take effect

rommon 2 > **reset**

System Bootstrap, Version 11.3(2)XA4, RELEASE SOFTWARE (fc1)
Copyright (c) 1999 by cisco Systems, Inc.
TAC:Home:SW:IOS:Specials for info
C2600 platform with 32768 Kbytes of main memory

program load complete, entry point: 0x80008000, size: 0x6fdb4c

Self decompressing the image : #####

[OK]

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cisco Systems, Inc.
170 West Tasman Drive
San Jose, California 95134-1706

Cisco Internetwork Operating System Software
IOS (tm) C2600 Software (C2600-IS-M), Version 12.0(7)T, RELEASE SOFTWARE (fc2)
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2 Ethernet/IEEE 802.3 interface(s)
2 Serial(sync/async) network interface(s)
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32K bytes of non-volatile configuration memory.
8192K bytes of processor board System flash partition 1 (Read/Write)
8192K bytes of processor board System flash partition 2 (Read/Write)

--- System Configuration Dialog ---

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

Press RETURN to get started!

00:00:19: %LINK-3-UPDOWN: Interface BRI0/0, changed state to up
00:00:19: %LINK-3-UPDOWN: Interface Ethernet0/0, changed state to up
00:00:19: %LINK-3-UPDOWN: Interface Ethernet0/1, changed state to up
00:00:19: %LINK-3-UPDOWN: Interface Serial0/0, changed state to down
00:00:19: %LINK-3-UPDOWN: Interface Serial0/1, changed state to down
00:00:20: %LINEPROTO-5-UPDOWN: Line protocol on Interface BRI0/0,
changed state to down
00:00:20: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/0,
changed state to up
Router>
00:00:20: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/1,
changed state to up
00:00:20: %LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0,
changed state to down
00:00:20: %LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1,
changed state to down
00:00:50: %SYS-5-RESTART: System restarted --
Cisco Internetwork Operating System Software
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Copyright (c) 1986-1999 by cisco Systems, Inc.
Compiled Tue 07-Dec-99 02:21 by phanguye
00:00:50: %LINK-5-CHANGED: Interface BRI0/0,
changed state to administratively down
00:00:52: %LINK-5-CHANGED: Interface Ethernet0/0,
changed state to administratively down
00:00:52: %LINK-5-CHANGED: Interface Serial0/0,
changed state to administratively down
00:00:52: %LINK-5-CHANGED: Interface Ethernet0/1,
changed state to administratively down
00:00:52: %LINK-5-CHANGED: Interface Serial0/1,
changed state to administratively down
00:00:53: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/0,
changed state to down
00:00:53: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/1,
changed state to down
Router>
Router>**enable**
Router#**copy startup-config running-config**
Destination filename [running-config]?
1324 bytes copied in 2.35 secs (662 bytes/sec)
Router#
00:01:24: %LINEPROTO-5-UPDOWN: Line protocol on Interface BRI0/0:1,

changed state to down
00:01:24: %LINEPROTO-5-UPDOWN: Line protocol on Interface BRI0/0:2,
changed state to down

Router#**configure terminal**

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#**enable secret < password >**

Router(config)#**^Z**

00:01:54: %SYS-5-CONFIG_I: Configured from console by console

Router#**show ip interface brief**

Interface	IP-Address	OK?	Method	Status	Protocol
Ethernet0/0	10.200.40.37	YES	TFTP	administratively down	down
Serial0/0	unassigned	YES	TFTP	administratively down	down
BRI0/0	193.251.121.157	YES	unset	administratively down	down
BRI0/0:1	unassigned	YES	unset	administratively down	down
BRI0/0:2	unassigned	YES	unset	administratively down	down
Ethernet0/1	unassigned	YES	TFTP	administratively down	down
Serial0/1	unassigned	YES	TFTP	administratively down	down
Loopback0	193.251.121.157	YES	TFTP	up	up

Router#**configure terminal**

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#**interface Ethernet0/0**

Router(config-if)#**no shutdown**

Router(config-if)#

00:02:14: %LINK-3-UPDOWN: Interface Ethernet0/0, changed state to up

00:02:15: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/0,
changed state to up

Router(config-if)#**interface BRI0/0**

Router(config-if)#**no shutdown**

Router(config-if)#

00:02:26: %LINK-3-UPDOWN: Interface BRI0/0:1, changed state to down

00:02:26: %LINK-3-UPDOWN: Interface BRI0/0:2, changed state to down

00:02:26: %LINK-3-UPDOWN: Interface BRI0/0, changed state to up

00:02:115964116991: %ISDN-6-LAYER2UP: Layer 2 for Interface BR0/0,
TEI 68 changed to up

Router(config-if)#**^Z**

Router#

00:02:35: %SYS-5-CONFIG_I: Configured from console by console

Router#**copy running-config startup-config**

Destination filename [startup-config]?

Building configuration...

[OK]

Router#**show version**

Cisco Internetwork Operating System Software

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2 Ethernet/IEEE 802.3 interface(s)

2 Serial(sync/async) network interface(s)

```
1 ISDN Basic Rate interface(s)
32K bytes of non-volatile configuration memory.
8192K bytes of processor board System flash partition 1 (Read/Write)
8192K bytes of processor board System flash partition 2 (Read/Write)
```

Configuration register is 0x2142

Router#**configure terminal**

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#**config-register 0x2102**

Router(config)#^Z

00:03:20: %SYS-5-CONFIG_I: Configured from console by console

Router#**show version**

```
Cisco Internetwork Operating System Software
IOS (tm) C2600 Software (C2600-IS-M), Version 12.0(7)T, RELEASE SOFTWARE (fc2)
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```
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2 Serial(sync/async) network interface(s)
1 ISDN Basic Rate interface(s)
32K bytes of non-volatile configuration memory.
8192K bytes of processor board System flash partition 1 (Read/Write)
8192K bytes of processor board System flash partition 2 (Read/Write)
```

Configuration register is 0x2142 (will be **0x2102** at next reload)

Router#

[相关信息](#)

- [密码恢复规程](#)
- [控制台和 AUX 端口布线指南](#)
- [将终端连接到 Catalyst 交换机的控制台端口](#)
- [将终端连接到 Catalyst 2948G-L3、4908G-L3 和 4840G 系列交换机](#)
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