

恢复1900集成多业务路由器的密码

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简介

本文档介绍如何从路由器恢复使能口令和使能加密口令。

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 1900 系列集成服务路由器

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。如果您的网络处于活动状态，请确保您了解所有命令的潜在影响。

规则

有关文档规则的信息，请参阅 [Cisco 技术提示规则](#)。

背景信息

这些口令可对特权执行和配置模式的访问权限进行保护。使能口令可以恢复，但使能加密口令经过加密，必须替换为新口令。请使用本文档介绍的过程替换 enable secret 口令。

分步过程

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：[配置控制台和AUX端口的电缆要求了解Catalyst交换机上控制台端口的终端连接](#)
2. 如果可以访问路由器，请在提示符下键入 `show version`，并记录配置寄存器值。请参阅[口令恢复过程示例](#)部分以查看 `show version` 命令的输出。注：配置寄存器通常设置为 `0x2102` 或 `0x102`。如果无法再访问路由器（由于登录或 TACACS 密码丢失），您可以安全地假设您的配置寄存器设置为 `0x2102`
3. 使用电源开关关闭路由器，然后重新打开。
4. 在看到消息 `program load complete entry point: 0x80008000, size: 0x6fdb4c` 后，在终端键盘上按几次 **Break**，将路由器置于 ROMMON 中。注：入口点和大小的值取决于路由器。如果中断序列不起作用，请参阅用于其他密钥组合的[使用标准中断键序列组合进行口令恢复](#)。如果无法进入 ROMMON 模式，请执行以下步骤：取下闪存。重新加载路由器。路由器最终处于 ROMMON 模式。插入闪存。执行标准的口令恢复步骤。
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. 在每个设置问题后面键入 `no`，或者按 **Ctrl-C** 跳过初始设置程序。
8. 在 `Router>` 提示符处键入 `enable`。您处于启用模式，并看到 `Router#` 示。
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：不输入 `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>` 以更改使能加密口令。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必须显示为 `up up up`。
14. 键入 `config-register <configuration_register_value>`。其中 `configuration_register_value` 是在步骤 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。

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 2900 系列 ISR 创建的。即使您未使用 Cisco 2900 系列 ISR，此输出也为您提供产品体验的示例。

```
Router>enable
Password:
Password:
Password:
```

% Bad secrets

Router>**show version**

Cisco IOS Software, C2900 Software (C2900-UNIVERSALK9-M), Version 15.0(1)M1,
RELEASE SOFTWARE (fc1)

Technical Support: <http://www.cisco.com/techsupport>

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Compiled Wed 02-Dec-09 15:23 by prod_rel_team

ROM: System Bootstrap, Version 15.0(1r)M1, RELEASE SOFTWARE (fc1)

c2921-CCP-1-xfr uptime is 2 weeks, 22 hours, 15 minutes
System returned to ROM by reload at 06:06:52 PCTime Mon Apr 2 1900
System restarted at 06:08:03 PCTime Mon Apr 2 1900
System image file is "flash:c2900-universalk9-mz.SPA.150-1.M1.bin"
Last reload reason: Reload Command

This product contains cryptographic features and is subject to United States and local country laws governing import, export, transfer and use. Delivery of Cisco cryptographic products does not imply third-party authority to import, export, distribute or use encryption. Importers, exporters, distributors and users are responsible for compliance with U.S. and local country laws. By using this product you agree to comply with applicable laws and regulations. If you are unable to comply with U.S. and local laws, return this product immediately.

A summary of U.S. laws governing Cisco cryptographic products may be found at:
<http://www.cisco.com/wvl/export/crypto/tool/stqrg.html>

If you require further assistance please contact us by sending email to export@cisco.com.

Cisco CISCO2921/K9 (revision 1.0) with 475136K/49152K bytes of memory.
Processor board ID FHH1230P04Y

1 DSL controller

3 Gigabit Ethernet interfaces

9 terminal lines

1 Virtual Private Network (VPN) Module

1 Cable Modem interface

1 cisco Integrated Service Engine-2(s)

Cisco Foundation 2.2.1 in slot 1

DRAM configuration is 64 bits wide with parity enabled.

255K bytes of non-volatile configuration memory.

248472K bytes of ATA System CompactFlash 0 (Read/Write)

62720K bytes of ATA CompactFlash 1 (Read/Write)

Technology Package License Information for Module:'c2900'

```
-----  
Technology      Technology-package      Technology-package  
                Current      Type                Next reboot  
-----  
ipbase          ipbasek9                Permanent          ipbasek9  
security        securityk9               Permanent          securityk9  
uc              uck9                    Permanent          uck9  
data            datak9                   Permanent          datak9
```

Configuration register is 0x2102

Router>

!--- The router was just powercycled, and during bootup a
!--- break sequence was sent to the router after seeing the following message
!--- program load complete, entry point: 0x80008000, size: 0x6fdb4c. rommon 1 > **confreg 0x2142**

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

rommon 2 > **reset**

System Bootstrap, Version 15.0(1r)M1, RELEASE SOFTWARE (fcl)
Copyright (c) 2009 by cisco Systems, Inc.
TAC:Home:SW:IOS:Specials for info
C2900 platform with 524288 Kbytes of main memory

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

Self decompressing the image : #####

[OK]

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170 West Tasman Drive
San Jose, California 95134-1706

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--- 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 --
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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

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	192.168.121.157	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  192.168.121.157      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**

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255K bytes of non-volatile configuration memory.

248472K bytes of ATA System CompactFlash 0 (Read/Write)

62720K bytes of ATA CompactFlash 1 (Read/Write)

Configuration register is 0x2102

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**

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

Router#

相关信息

- [密码恢复程序示例](#)
- [配置控制台和AUX端口的电缆要求](#)
- [了解Catalyst交换机上控制台端口的终端连接](#)
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