恢复2900集成多业务路由器密码

目录

简介

本文档介绍如何恢复2900 Cisco路由器的**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 2900 系列集成服务路由器 (ISR)

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。

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

有关文档规则的详细信息，请参阅 Cisco 技术提示规则。

背景信息

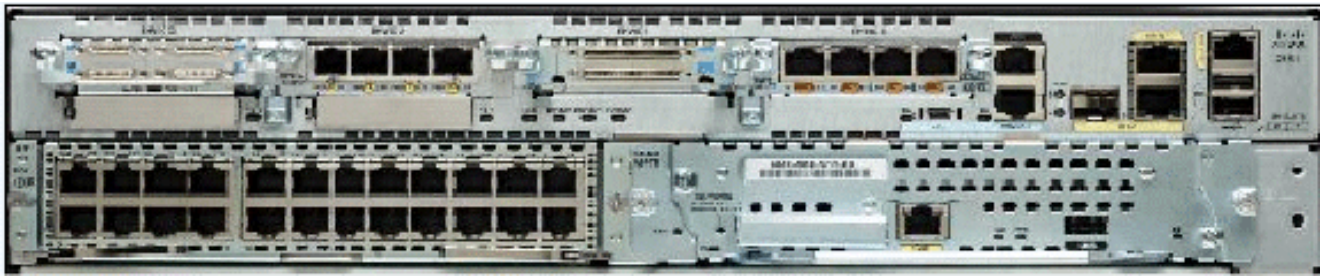
本文档介绍了如何恢复 enable password 和 enable secret 口令。这些口令可对特权执行和配置模式的访问权限进行保护。enable password 可以恢复，但是 enable secret 口令经过了加密，必须使

用新口令将其替换。请使用本文档介绍的过程替换 enable secret 口令。

分步过程

要恢复密码，请执行以下操作：

1. 关闭或断开路由器。
2. 取下路由器背面的微型闪存。下图显示了 2951 路由器的背面
   ：

   *2951路由器背面*有关详细信息，请参阅路由器概述。
3. 路由器上的交换机。
4. 路由器处于 Rommon 模式时，请重新插入微型闪存。
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。您处于启用模式并看到`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：**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. 发出 show running-config 命令。**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 和控制台口令）可能为加密格式，也可能为未加密格式。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)#`
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**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>**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#`
16. 类型 write memory 或 copy running-config startup-config 才能提交更改。

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。即使您不使用Cisco 2900系列ISR，此输出也为您必须在产品上体验的体验提供了一个示例。

```
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 Copyright (c) 1986-2009 by Cisco
Systems, Inc. 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/wwl/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>



!--- Execute Steps 1 through 4 from Step-by-Step Procedure.


!

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 (fc1)
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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 Cisco Systems, Inc.
 170 West Tasman Drive
 San Jose, California 95134-1706

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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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)


 --- 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 IOS Software, C2900 Software (C2900-UNIVERSALK9-M), Version 15.0(1)M1,
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```

```
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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 < 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      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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Last reload reason: Reload Command

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255K bytes of non-volatile configuration memory.
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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
Cisco IOS Software, C2900 Software (C2900-UNIVERSALK9-M), Version 15.0(1)M1,
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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)

Configuration register is 0x2142 (is  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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