在集成多业务路由器2900路由器上执行口令恢复

目录

[简介](#)

[先决条件](#)

- [要求](#)
- [使用的组件](#)
- [相关产品](#)

[背景信息](#)

[分步操作步骤](#)

[密码恢复程序示例](#)

[相关信息](#)

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。

背景信息

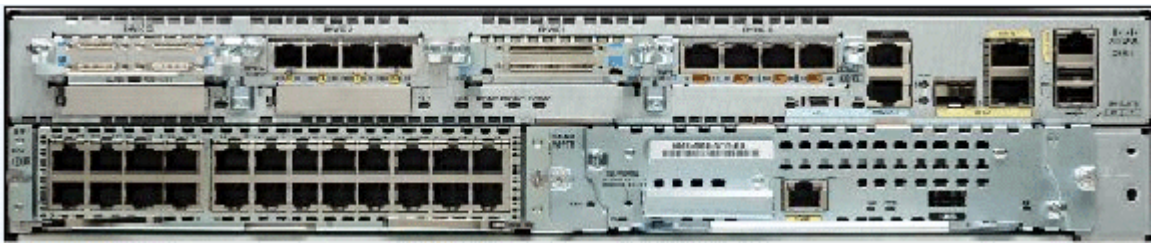
本文档介绍如何恢复使能口令和使能加密口令。这些口令可对特权执行和配置模式的访问权限进行保护。使能口令可以恢复，但使能加密口令经过加密，必须替换为新口令。请使用本文档介绍的过程替换 enable secret 口令。

注意：Cisco 2900系列集成多业务路由器已达到支持终止(EOS)状态。这意味着思科不再为此设备提供软件更新、漏洞修复或技术支持。建议客户计划迁移或升级到更新的支持平台，以确保持续的安全性和功能增强。有关详细信息，请参阅思科的生命周期终止公告。

分步操作步骤

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：请勿输入 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，每个接口下都会显示 shutdown 命令，这表明着当前所有接口都是关闭的。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)# 提示符。

12. 键入 enable secret <password>，以更改启用加密口令。例如：

    <#root>

    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，则会显示要使用的每个接口。

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中记录的值。例如：

    <#root>

    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 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。

<#root>

```
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]


 Restricted Rights Legend

Use, duplication, or disclosure by the Government is
subject to restrictions as set forth in subparagraph
(c) of the Commercial Computer Software - Restricted
Rights clause at FAR sec. 52.227-19 and subparagraph
(c) (1) (ii) of the Rights in Technical Data and Computer
Software clause at DFARS sec. 252.227-7013.

 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
Copyright (c) 1986-2009 by Cisco Systems, Inc.
Compiled Wed 02-Dec-09 15:23 by prod_rel_team

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,
     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
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

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

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)

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,
     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

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)

Configuration register is 0x2142 (is

 0x2102

 at next reload)

Router#
```

相关信息

- 排除IOS和IOS XE路由器中的口令恢复故障
- 在Catalyst 9000系列交换机上执行密码恢复
- 思科技术支持和下载

关于此翻译
思科采用人工翻译与机器翻译相结合的方式将此文档翻译成不同语言，希望全球的用户都能通过各自的语言得到支持性的内容。

请注意：即使是最好的机器翻译，其准确度也不及专业翻译人员的水平。

Cisco Systems, Inc. 对于翻译的准确性不承担任何责任，并建议您总是参考英文原始文档（已提供链接）。