

# Cisco 2900 集成多业务路由器口令恢复步骤

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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 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

有关文档规则的详细信息，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. 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：有关详细信息，请参阅 [Cisco 2921 和 2951 路由器上的背面板插槽和连接器](#)。
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)# 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> 是您在步骤 2 或 0x2102 中记录的值。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。即使您使用的不是 Cisco 2900 系列 ISR，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 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](mailto:export@cisco.com).

Cisco CISC02921/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>  
Copyright (c) 1986-2009 by Cisco Systems, Inc.  
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Cisco CISCO2921/K9 (revision 1.0) with 475136K/49152K bytes of memory.  
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1 Virtual Private Network (VPN) Module  
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255K bytes of non-volatile configuration memory.  
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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 --
Cisco IOS Software, C2900 Software (C2900-UNIVERSALK9-M), Version 15.0(1)M1,
RELEASE SOFTWARE (fcl)
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	<b>administratively down</b>	down
Serial0/0	unassigned	YES	TFTP	<b>administratively down</b>	down
BRI0/0	193.251.121.157	YES	unset	<b>administratively down</b>	down
BRI0/0:1	unassigned	YES	unset	<b>administratively down</b>	down
BRI0/0:2	unassigned	YES	unset	<b>administratively down</b>	down
Ethernet0/1	unassigned	YES	TFTP	<b>administratively down</b>	down
Serial0/1	unassigned	YES	TFTP	<b>administratively down</b>	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 IOS Software, C2900 Software (C2900-UNIVERSALK9-M), Version 15.0(1)M1,
    RELEASE SOFTWARE (fc1)
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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 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)
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```

Last reload reason: Reload Command

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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 0x2142 (will be **0x2102** at next reload)

Router#

**注意：**为了恢复您的密码，当，参考[恢复每设备部分没有No service password-recovery。](#)

## 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](#)
- [技术支持和文档 - Cisco Systems](#)