

# 路由器在重新启动期间，为什么丢失其配置？

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## [Introduction](#)

本文档解释导致路由器在断电或重新引导后丢失其配置的原因。本文也提供一个简单过程验证在所有路由器的配置寄存器。在许多情况下，这是不正确地设置的配置寄存器的结果。配置寄存器通常更改在密码恢复期间绕过启动配置在重新启动。许多次，配置寄存器没有返回到一个正常设置。

## [Prerequisites](#)

### [Requirements](#)

There are no specific requirements for this document.

### [Components Used](#)

This document is not restricted to specific software and hardware versions.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

### [Conventions](#)

有关文档规则的详细信息，请参阅 [Cisco 技术提示规则](#)。

## [问题](#)

路由器能绕过在其启动顺序期间存储的非易失性RAM启动配置。为了检查此问题是否发生，请完成这些步骤：

1. 在您的路由器启动后，请勿输入初始配置对话(请选择**没有**，当提示)。

```
--- System Configuration Dialog ---
```

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

2. 按Enter达到Router>提示。
3. 键入**enable (event)**，并且按Enter输入特权模式。
4. 从Router-提示，类型**显示开始**并且按Enter。您的配置必须是在重新启动或断电前被保存的那个。如果发现配置不是相同的，很可能，路由器忽略了启动配置。进行对第5步。
5. 键入**show version**，按Enter，并且查看最后一行在出现的输出中。示例如下：

```
Router#show version
Cisco Internetwork Operating System Software
IOS (tm) 2500 Software (C2500-JS-L), Version 12.1(5),
  RELEASE SOFTWARE (fc1)
Copyright (c) 1986-2000 by cisco Systems, Inc.
Compiled Wed 25-Oct-00 05:18 by cmong
Image text-base: 0x03071DB0, data-base: 0x00001000

ROM: System Bootstrap, Version 5.2(8a), RELEASE SOFTWARE
BOOTFLASH: 3000 Bootstrap Software (IGS-RXBOOT), Version 10.2(8a),
  RELEASE SOFTWARE (fc1)

Router uptime is 7 minutes
System returned to ROM by reload
System image file is "flash:c2500-js-l_121-5.bin"

cisco 2500 (68030) processor (revision D) with 16384K/2048K bytes of memory.
Processor board ID 03867477, with hardware revision 00000000
Bridging software.
X.25 software, Version 3.0.0.
SuperLAT software (copyright 1990 by Meridian Technology Corp).
TN3270 Emulation software.
1 Token Ring/IEEE 802.5 interface(s)
2 Serial network interface(s)
32K bytes of non-volatile configuration memory.
16384K bytes of processor board System flash (Read ONLY)

Configuration register is 0x2142
```

在本例中，配置寄存器显示0x2142。路由器绕过在NVRAM存储的启动配置在其启动顺序期间。在密码恢复流程期间，此功能通常使用。此表解释配置寄存器位含义：配置寄存器的默认设置是0x2102。这表明路由器应该尝试从闪存装载Cisco IOS软件镜像和装载启动配置。

## 解决方案

最可能原因路由器为什么绕过了在NVRAM存储的启动配置是未适当地设置配置寄存器。要更改您的配置寄存器，以便路由器不忽略也不跳过启动配置在重新启动或功率循环，请完成这些步骤：

从Router-提示：

1. 类型**配置终端**，并且按Enter。
2. 键入**config-register 0x2102**，并且按Enter。
3. 键入**末端**，并且按Enter。

要验证配置寄存器更改，请键入**show version**在Router-提示，并且再查看您的**show version**命令的输出。寻找配置寄存器设置，必须显示新的值在下次重新加载。示例如下：

```
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#config-register 0x2102
Router(config)#end

Router#show version
Cisco Internetwork Operating System Software
IOS (tm) 2500 Software (C2500-JS-L), Version 12.1(5),
  RELEASE SOFTWARE (fc1)
Copyright (c) 1986-2000 by cisco Systems, Inc.
Compiled Wed 25-Oct-00 05:18 by cmong
Image text-base: 0x03071DB0, data-base: 0x00001000

ROM: System Bootstrap, Version 5.2(8a), RELEASE SOFTWARE
BOOTFLASH: 3000 Bootstrap Software (IGS-RXBOOT), Version 10.2(8a),
  RELEASE SOFTWARE (fc1)

Router uptime is 11 minutes
System returned to ROM by reload
System image file is "flash:c2500-js-l_121-5.bin"

cisco 2500 (68030) processor (revision D) with 16384K/2048K bytes of memory.
Processor board ID 03867477, with hardware revision 00000000
Bridging software.
X.25 software, Version 3.0.0.
SuperLAT software (copyright 1990 by Meridian Technology Corp).
TN3270 Emulation software.
1 Token Ring/IEEE 802.5 interface(s)
2 Serial network interface(s)
32K bytes of non-volatile configuration memory.
16384K bytes of processor board System flash (Read ONLY)

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

当路由器被重新载入时，新的配置寄存器设置变得激活。

```
Router#reload
System configuration has been modified. Save? [yes/no]: n
Proceed with reload? [confirm]
```

您的路由器用启动配置当前装载，并且配置寄存器设置为0x2102。您的配置在下一次重新加载或功率循环以后适当地装载。

## [Related Information](#)

- [重新启动路由器](#)
- [软件配置寄存器](#)
- [密码恢复流程](#)
- [Technical Support - Cisco Systems](#)