

如何从控制台恢复IC3000

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Introduction

本文描述如何恢复IC3000与使用控制台。

如何从控制台恢复IC3000

在某些情况下，IC3000在rommon>变得不可启动和被滞留，不能引导它是镜像。

当这是实际情形时，序列/usb控制台能显示此输出：

```
autoboot: Restarting the system.
```

```
Rom image verified correctly
```

```
Cisco Systems ROMMON, Version 1.0.0(IC3000), RELEASE SOFTWARE  
Copyright (c) 1994-2018 by Cisco Systems, Inc.  
Compiled Thu 09/06/2018 11:38:52.09 by builders
```

```
Current image running: Boot ROM1  
Last reset cause: LocalSoft  
DIMM Slot 0 : Present
```

```
Platform IC3000-2C2F-K9 with 8192 Mbytes of main memory  
MAC Address: 00:00:00:00:00:00
```

```
Use BREAK or ESC to interrupt boot.  
Use SPACE to begin boot immediately.
```

```
Warning: filesystem is not clean  
Directory .boot_string not found  
Unable to locate .boot_string directory  
Unable to load .boot_string
```

```
Attempt autoboot: "boot disk0:"  
Warning: filesystem is not clean  
Warning: filesystem is not clean  
File size is 0x01360000
```

```
Located IC3000-K9-1.0.1.SPA
```

```
Image size 20316160 inode num 12, bks cnt 4960 blk size 8*512
```

```
#####  
#####  
#####
```

```
Signature verification failed for key# 1  
Failed to validate digital signature  
Signature verification failed for key# 1  
Signature verification failed for key# 2
```

```
Failed to validate digital signature
LFBFF signature verification failed!!
No kernel found to launch.
boot: cannot determine first file name on device "disk0:/"
autoboot: All boot attempts have failed.
autoboot: Restarting the system.
```

当您中断启动流程并且设法引导镜像时，请提交在disk0：您也许发现输出和一样上述和设备基本上在bootloop。

解决方案

为了恢复IC3000，您需要这些前提：

- 对管理端口的IP连通性
- TFTP-server，可及的通过在管理端口的网络
- IC3000镜像，可以下载从
： <https://software.cisco.com/download/home/286321941/type/286322235>
- 与序列的控制台连接或在IC3000的USB连接

这些步骤在可用状态允许您让IC3000回到：

1. 从提供的URL下载IC3000镜像以上并且使可用在TFTP-server
2. 连接到IC3000控制台并且通过按ESC中断启动进程，当您看到此消息时：

```
Use BREAK or ESC to interrupt boot.
Use SPACE to begin boot immediately.
```

3. 在您中断正常启动顺序后，您最终获得rommon>提示：

```
rommon 1 >
```

4. 配置IP地址和网关IC3000的在管理端口。即使没有需要网关，必须设置值：

```
rommon 1 > address 192.168.100.2
rommon 2 > netmask 255.255.255.0
rommon 3 > gateway 192.168.100.1
```

5. 测试连接对TFTP-server：

```
rommon 4 > ping 192.168.100.1
Sending 10, 32-byte ICMP Echoes to 192.168.100.1 timeout is 4 seconds
?????????
Success rate is 90 percent (9/10)
```

6. 设置TFTP服务器地址和文件名下载：

```
rommon 5 > server 192.168.100.1
rommon 6 > file IC3000-K9-1.0.1.SPA
```

7. 开始下载并且引导镜像从TFTP-server：

```
rommon 7 > tftpdnld
ADDRESS: 192.168.100.2
NETMASK: 255.255.255.0
GATEWAY: 192.168.100.1
SERVER: 192.168.100.1
IMAGE: IC3000-K9-1.0.1.SPA
MACADDR: 00:00:00:00:00:00
VERBOSITY: Progress
RETRY: 40
```



```
System initializing...
System Type Fiber.
Mounting cgroups...Done
Checking if cgroup is provided by kernel...Yes.
Checking if cgroup is mounted...Yes.
Checking if lssubsys is available...Yes.
Checking if platform defines cgroup parameters...Yes.
Tweaking base cgroup parameters...Done.
Checking if subsystems needed by IOx exist...
Setting up cpu cgroup parameters...
Setting cpu.shares for apphosting.partition to 921...OK
Setting cpu.shares for host to 100...OK
Setting cpu.shares for host/caf to 100...OK
Setting cpuset values for apphosting.partition...OK
Setting up memory cgroup parameters...
Setting memory.limit_in_bytes for apphosting.partition to 6589061529...OK
Setting memory.limit_in_bytes for host to 1647265382...OK
Setting memory.limit_in_bytes for host/caf to 1317812305...OK
OpenBSD Secure Shell server not in use (/etc/ssh/sshd_not_to_be_run)
Starting atd: OK
starting DNS forwarder and DHCP server: dnsmasq... done.
Starting ntpd: done
Starting system log daemon...0
Starting kernel log daemon...0
Network mgmt starting with factory default configuration
User mgmt starting with factory default configuration
Starting konfd: OK
  * Starting virtualization library daemon: libvirtd
no /usr/bin/dnsmasq found; none killed [ ok ]
  * Starting libvirt log management daemon: virtlogd [ ok ]
Starting crond: OK
Starting Monit 5.14 daemon with http interface at /var/run/monit.sock
```

ic3k>