

如何從控制檯恢復IC3000

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簡介

本文說明如何使用主控台復原IC3000。

如何從控制檯恢復IC3000

在某些情況下，IC3000會變得不可啟動，並且卡在rommon>中，但無法啟動其映像。

在這種情況下，序列/usb主控台可顯示以下輸出：

```
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.
```

當您中斷啟動過程並嘗試啟動映像（存在於disk0：上）時，您可能會看到與上述相同的輸出，並且裝置基本上處於某種引導循環中。

解決方案

為了恢復IC3000，您需要以下先決條件：

- 到管理埠的IP連線
- TFTP伺服器，可通過網路在管理埠上訪問
- IC3000映像，可從以下網址下載
： <https://software.cisco.com/download/home/286321941/type/286322235>
- 控制檯連線到IC3000上的串列或USB連線

通過這些步驟，您可以將IC3000恢復為可用狀態：

1. 從上面提供的URL下載IC3000映像，並在TFTP伺服器上使用
2. 連線到IC3000控制檯，並在您看到以下消息時按ESC中斷啟動過程：

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

3. 中斷正常開機順序後，最後會顯示rommon>提示：

```
rommon 1 >
```

4. 在管理埠上配置IC3000的IP地址和網關。即使不需要網關，也必須設定值：

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

5. 測試與TFTP伺服器的連線：

```
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. 設定要下載的TFTP伺服器地址和檔名：

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

7. 開始下載，然後從TFTP伺服器啟動映像：

```
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
      PKTTIMEOUT: 7200
      BLKSIZE: 1460
      CHECKSUM: Yes
      PORT: GbE/0
      PHYMODE: Auto Detect
```

```
Receiving IC3000-K9-1.0.1.SPA from 192.168.100.1!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
File reception completed.
```

映像成功傳輸後，IC3000會立即從映像啟動：

```
File reception completed.
Boot buffer bigbuf=348bd018
Boot image size = 102729968 (0x61f88f0) bytes
[image size]      102729968
[MD5 signature]   294a052497277c330d6b2159cf37f1ab
LFBFF signature verified.
[ 4.446627] sd 2:0:0:0: [sdb] No Caching mode page found
[ 4.510305] sd 2:0:0:0: [sdb] Assuming drive cache: write through
INIT: version 2.88 booting
Starting udev
Populating dev cache
INIT: Entering runlevel: 5postinsts/000-monit...
Configuring network interfaces... Setting bridge MAC address to: 00:b8:b3:80:02:c0
done.
Starting system message bus: dbus.
Checking and Mounting BOOT filesystem...
fsck (busybox 1.24.1, 2018-09-13 06:16:00 UTC)
BOOT was not cleanly unmounted, check forced.
BOOT: Inode 12, i_size is 20316160, should be 20447232. FIXED.
BOOT: Inode 12, i_blocks is 39728, should be 39984. FIXED.
BOOT: 12/244320 files (0.0% non-contiguous), 22254/976892 blocks
Checking and Mounting BOOT filesystem...Done
Checking GOLDEN filesystem...
fsck (busybox 1.24.1, 2018-09-13 06:16:00 UTC)
GOLDEN was not cleanly unmounted, check forced.
```

GOLDEN: 12/122160 files (8.3% non-contiguous), 33504/488448 blocks
Checking GOLDEN filesystem...Done
Checking and Mounting SYSTEM filesystem...
fsck (busybox 1.24.1, 2018-09-13 06:16:00 UTC)
SYSTEM: clean, 11/535392 files, 71084/2139136 [21.111486] fpga_i2c_init_module: FPGA base address =
blocks
Checking and Mounting SYSTEM filesystem...Done
Checking and Mounting IOX filesystem...
fsck (busybox 1.24.1, 2018-09-13 06:16:00 UTC)
IOX: clean, 11/5865472 files, 415148/23442851 blocks
Checking and Mounting IOX filesystem...Done
Checking and Mounting LOG filesystem...
fsck (busybox 1.24.1, 2018-09-13 06:16:00 UTC)
LOG: clean, 11/244800 files, 33670/977949 blocks
Checking and Mounting LOG filesystem...Done
0x0000
Authenticating ACT2...ACT2 success

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>

關於此翻譯

思科已使用電腦和人工技術翻譯本文件，讓全世界的使用者能夠以自己的語言理解支援內容。請注意，即使是最佳機器翻譯，也不如專業譯者翻譯的內容準確。Cisco Systems, Inc. 對這些翻譯的準確度概不負責，並建議一律查看原始英文文件（提供連結）。