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

```
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
```

7. 开始下载并且引导镜像从TFTP-server :

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

?!!!!!!!!! Success rate is 90 percent (9/10) 6. 设置TFTP服务器地址和文件名下载:

rommon 4 > ping 192.168.100.1 Sending 10, 32-byte ICMP Echoes to 192.168.100.1 timeout is 4 seconds

- 5. 测试连接对TFTP-server :
- rommon 3 > gateway 192.168.100.1

rommon 2 > netmask 255.255.255.0

rommon 1 > address 192.168.100.2

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:

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:

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:

1. 从提供的URL下载IC3000镜像以上并且使可用在TFTP-server

这些步骤在可用状态允许您让IC3000回到:

Use BREAK or ESC to interrupt boot.

Failed to validate digital signature LFBFF signature verification failed !!

autoboot: All boot attempts have failed.

No kernel found to launch.

上在bootloop。

解决方案

autoboot: Restarting the system.

为了恢复IC3000,您需要这些前提:

• 对管理端口的IP连通性

• 与序列的控制台连接或在IC3000的USB连接

• TFTP-server,可及的通过在管理端口的网络

boot: cannot determine first file name on device "disk0:/"

- IC3000镜像,可以下载从

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

: https://software.cisco.com/download/home/286321941/type/286322235

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

```
Receiving IC3000-K9-1.0.1.SPA from
192.168.100.1
```

一旦顺利地转换了镜像, IC3000从镜像将立即引导:

```
File reception completed.
Boot buffer bigbuf=348bd018
Boot image size = 102729968 (0x61f88f0) bytes
                 102729968
[image size]
               294a052497277c330d6b2159cf37f1ab
[MD5 signaure]
LFBFF signature verified.
     4.446627] sd 2:0:0:0: [sdb] No Caching mode page found
Γ
     4.510305] sd 2:0:0:0: [sdb] Assuming drive cache: write through
Γ
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 = ffffc90001078000
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
0 \times 0000
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 [ok] no /usr/bin/dnsmasq found; none killed * Starting libvirt log management daemon: virtlogd [ok] Starting crond: OK Starting Monit 5.14 daemon with http interface at /var/run/monit.sock

ic3k>