

CAS 启动无法进入系统解决方法

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CAS主机发生重启，提示挂载目录失败，

An error occurred while mounting /vms/host.

Press S to skip mounting or M for manual recovery

首先，我们可以按S跳过挂载该目录，使CAS系统正常启动起来。待CAS启动起来后，再分析具体原因。

如上提示，现场环境为服务器有2个raid1，2个300G硬盘用于装了CAS系统，2个500G硬盘挂载在了/vms/host目录下，供虚拟机使用。等待CAS启动完成后，再次进入CAS系统，发现前台host目录不是500G的空间了，而是和isospool、defaultpool空间一致，并且存放在hosts目录下的虚拟机文件都没有了，如图：

The screenshot shows the H3C CAS CVM interface. At the top, there's a toolbar with various icons for managing hosts, virtual machines, and storage. Below it is a navigation bar with tabs like '概要' (Overview), '性能监控' (Performance Monitoring), '虚拟机' (Virtual Machines), '存储' (Storage), '虚拟交换机' (Virtual Switch), '物理网卡' (Physical Network Card), 'FC HBA', 'SCSI 驱动' (SCSI Driver), and '任务' (Tasks). The main area has two sections: '存储池' (Storage Pool) and 'hosts'. The '存储池' section lists three pools: 'defaultpool' (本地文件目录, /tmp/images), 'hosts' (本地文件目录, /tmp/hosts), and 'isospool' (本地文件目录, /tmp/isos). All three are marked as active. The 'hosts' section shows a table with columns: 文件名称 (File Name), 文件大小 (File Size), 已用空间 (Used Space), 类型 (Type), 基础磁盘文件 (Base Disk File), and 使用者 (User). A note says '未找到任何数据' (No data found). There are also '添加存储' (Add Storage) and '删除存储' (Delete Storage) buttons.

Cas后台查看磁盘挂载如下：

```
root@cvm:~# df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/sda1        28G   4.0G  22G  16% /
udev            16G   12K  16G   1% /dev
tmpfs           6.3G  372K  6.3G  1% /run
none             5.0M    0  5.0M  0% /run/lock
none             16G   12K  16G   1% /run/shm
cgroup           16G    0  16G  0% /sys/fs/cgroup
/dev/sda5        19G   1.5G  16G   9% /var/log
/dev/sda7       221G   33G 177G  16% /vms
/dev/sda6       221G   33G 177G  16% /vms/host
```

Sda6挂载到了/vms/host目录下了，而sda6为swap分区：

```
root@cvm:~# fdisk -l
Disk /dev/sda: 300.0 GB, 299966445568 bytes
255 heads, 63 sectors/track, 36468 cylinders, total 585871964 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 262144 bytes / 262144 bytes
Disk identifier: 0x000051c5a

Device Boot Start End Blocks Id System
/dev/sda1 * 512 58593791 29296640 83 Linux
/dev/sda2 58594302 585871359 263638529 5 Extended
Partition 2 does not start on physical sector boundary.
/dev/sda5 58594304 97656319 19531008 83 Linux
/dev/sda6 97656832 115263487 8803328 82 Linux swap / Solaris
/dev/sda7 115264000 585871359 235303680 83 Linux
```

最后查看fstab文件：

```
root@cvm:~# more /etc/fstab
```

```

# /etc/fstab: static file system information.
#
# Use 'blkid' to print the universally unique identifier for a
# device; this may be used with UUID= as a more robust way to name devices
# that works even if disks are added and removed. See fstab(5).
#
#
proc      /proc      proc  nodev,noexec,nosuid 0      0
# / was on /dev/sda1 during installation
UUID=1a66bc40-75c6-48b6-9d95-158b0598a722 /      ext4  errors=remount-ro 0      1
# /var/log was on /dev/sda5 during installation
UUID=272cc474-8961-4874-b14c-e7a629dad0a7 /var/log  ext4  defaults      0      2
# /vms was on /dev/sda7 during installation
UUID=17cb60-a039-4b91-a0c8-76633a94a69c /vms    ext4  defaults      0      2
# swap was on /dev/sda6 during installation
UUID=50909a9e-3ba6-440e-b815-29774d00f2ea /vms/host  ext4  defaults      0      0

```

查看sda6的uuid:

```

root@cvm:~# blkid /dev/sda6
/dev/sda6: UUID="50909a9e-3ba6-440e-b815-29774d00f2ea" TYPE="swap"

```

通过上面可以判断为：挂载sdb分区修改fstab的时候直接修改了交换分区的信息，但是cas启动的时候是需要交换分区的，系统进行了重置。导致了该问题。

1、在CAS前台界面将该主机的host存储池暂停；

2、查询记录sdb的uuid信息：

```

root@cvm:~# blkid /dev/sdb
/dev/sdb: UUID="75ab245f-eb96-44d3-96dd-abc4907f3155" TYPE="ext4"

```

3、修改fstab文件，将swap分区修改正确，并且增加新的挂载点：

```

root@cvm:~# vim /etc/fstab
# /etc/fstab: static file system information.
#
# Use 'blkid' to print the universally unique identifier for a
# device; this may be used with UUID= as a more robust way to name devices
# that works even if disks are added and removed. See fstab(5).
#
#
proc      /proc      proc  nodev,noexec,nosuid 0      0
# / was on /dev/sda1 during installation
UUID=1a66bc40-75c6-48b6-9d95-158b0598a722 /      ext4  errors=remount-ro 0      1
# /var/log was on /dev/sda5 during installation
UUID=272cc474-8961-4874-b14c-e7a629dad0a7 /var/log  ext4  defaults      0      2
# /vms was on /dev/sda7 during installation
UUID=17cb60-a039-4b91-a0c8-76633a94a69c /vms    ext4  defaults      0      2
# swap was on /dev/sda6 during installation
UUID=50909a9e-3ba6-440e-b815-29774d00f2ea none      swap  sw      0      0
UUID=75ab245f-eb96-44d3-96dd-abc4907f3155 /vms/host  ext4  defaults      0      0

```

4、将sda6 umount: umount /vms/host; 然后重启mount: mount -a

5、在CAS前台界面将该主机的host存储池启用，检查各个虚拟机运行状态是否正常。

修改CAS后台文件严格按照指导书操作，严禁私自修改系统各个文件。