Centos系统虚拟机xfs文件系统损坏修复方法

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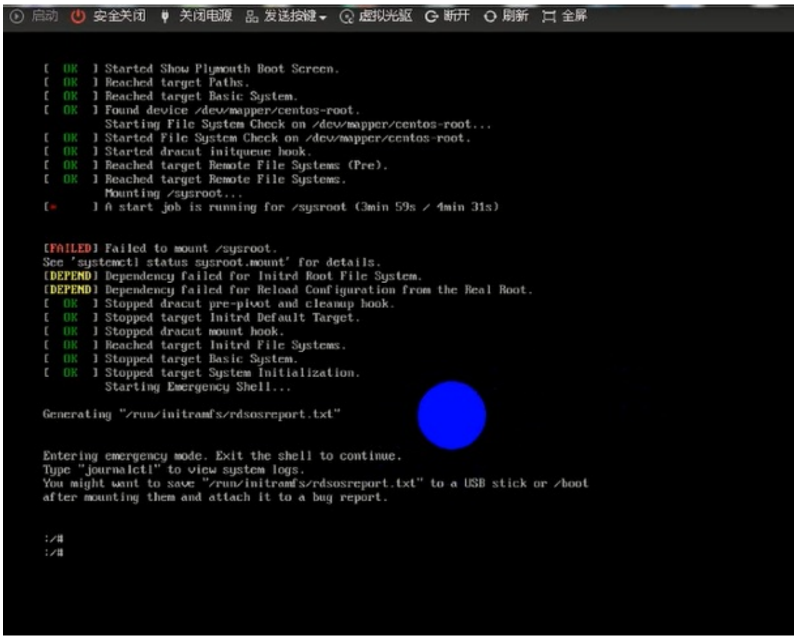
组网及说明

问题描述

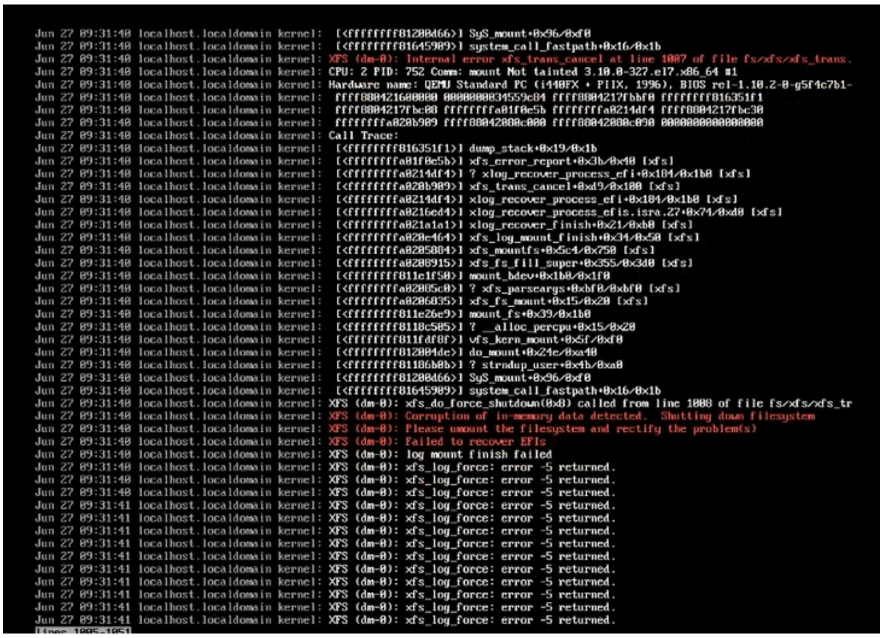
一、 问题描述：

某局点cas集群状态异常，虚拟机正常关机失败，对虚拟机直接关闭电源。集群状态恢复正常之后，发现几台centos虚拟机无法正常进入系统



过程分析

按照提示输入journalctl查看日志打印发现很多xfs相关报错



解决方法

解决方案：

1、 将故障虚拟机关闭电源，卸载系统盘

2、 新建一台虚拟机，以增加硬件的方式挂载故障虚拟机卸载下系统盘

3、 进入新建虚拟机控制台输入lsblk

```
-bash: lsblk: command not found
[root@localhost ~]# lsblk
NAME            MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
fd0               2:0    1    4K  0 disk
sr0              11:0    1    4G  0 rom
vda             253:0    0   80G  0 disk
├─vda1          253:1    0  500M  0 part /boot
├─vda2          253:2    0  3.9G  0 part [SWAP]
├─vda3          253:3    0   50G  0 part /
├─vda4          253:4    0    1K  0 part
└─vda5          253:5    0 25.6G  0 part /home
vdj             253:144  0  300G  0 disk
├─vdj1          253:145  0  500M  0 part
└─vdj2          253:146  0 99.5G  0 part
  ├─centos-swap 252:0    0  3.9G  0 lvm
  ├─centos-home 252:1    0 45.6G  0 lvm
  └─centos-root 252:2    0   50G  0 lvm
[root@localhost ~]# xfs_repair
```

4、 xfs_repair /dev/mapper/centos-root如果有报错使用xfs_repair –L /dev/mapper/centos-root

```
[root@localhost ~]# xfs_repair /dev/mapper/centos-root
Phase 1 - find and verify superblock...
Phase 2 - using internal log
        - zero log...
ERROR: The filesystem has valuable metadata changes in a log which needs to
be replayed.  Mount the filesystem to replay the log, and unmount it before
re-running xfs_repair.  If you are unable to mount the filesystem, then use
the -L option to destroy the log and attempt a repair.
Note that destroying the log may cause corruption -- please attempt a mount
of the filesystem before doing this.
```

```
        - agno = 2
        - agno = 3
entry "xindian-test02.pid" at block 0 offset 2712 in directory inode 135365684 refer
        clearing inode number in entry at offset 2712...
Phase 5 - rebuild AG headers and trees...
        - reset superblock...
Phase 6 - check inode connectivity...
        - resetting contents of realtime bitmap and summary inodes
        - traversing filesystem ...
bad hash table for directory inode 135365684 (no data entry): rebuilding
rebuilding directory inode 135365684
        - traversal finished ...
        - moving disconnected inodes to lost+found ...
disconnected inode 1632, moving to lost+found
disconnected inode 1633, moving to lost+found
disconnected inode 1634, moving to lost+found
disconnected inode 1635, moving to lost+found
disconnected inode 1636, moving to lost+found
disconnected inode 1638, moving to lost+found
disconnected inode 1651, moving to lost+found
disconnected inode 1652, moving to lost+found
disconnected inode 1653, moving to lost+found
disconnected inode 1654, moving to lost+found
disconnected inode 1655, moving to lost+found
disconnected inode 1656, moving to lost+found
disconnected inode 2016, moving to lost+found
disconnected inode 2027, moving to lost+found
disconnected inode 2028, moving to lost+found
disconnected inode 2029, moving to lost+found
disconnected inode 2030, moving to lost+found
disconnected inode 2032, moving to lost+found
disconnected inode 2033, moving to lost+found
disconnected inode 2061, moving to lost+found
disconnected inode 2064, moving to lost+found
disconnected inode 2065, moving to lost+found
disconnected inode 2066, moving to lost+found
disconnected inode 2067, moving to lost+found
disconnected inode 2068, moving to lost+found
disconnected inode 2069, moving to lost+found
disconnected inode 72295858, moving to lost+found
disconnected inode 135416960, moving to lost+found
Phase 7 - verify and correct link counts...
Metadata corruption detected at block 0x3cbeb40/0x1000
libxfs_writebufr: write verifer failed on bno 0x3cbeb40/0x1000
Metadata corruption detected at block 0x3cbeb40/0x1000
libxfs_writebufr: write verifer failed on bno 0x3cbeb40/0x1000
done
```

5、修复成功后将磁盘从新建虚拟机上卸载重新增加到原虚拟机上，重启测试。