

知 CAS共享存储启动报错，提示：internal error: OCFS2 configuration error, o2cb parameters mismatch all remote host, please add all storage again

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组网及说明

无

问题描述

CVK存储池启动失败，报错提示：internal error: OCFS2 configuration error, o2cb parameters mismatch all remote host, please add all storage again



过程分析

- 1、根据界面报错信息对存储池启动失败进行初步排查，检查每个cvk主机如下路径的参数是否一致：
/etc/ocfs2/cluster.conf、/etc/default/o2cb和/etc/multipath.conf；
- 2、根据cvk的/var/log/syslog、/var/log/ocfs2_shell_xxxx.log和/var/log/fsm/fsm_event.log进行具体判断分析。

查看syslog日志有明显的报错打印，与主机地址为x.x.x.x的o2cb参数不一致，

```
2021-05-28 17:09:46 [NR51] [33024] (ocfs2_disk_multi_part_check): ERROR:disk /dev/disk/by-path/pci-0000:00:11:0-scsi-0:0:0:0 naa get error
2021-05-28 17:09:46 [NR51] [33024] (ocfs2_disk_multi_part_check): DEBUG:naa of disk /dev/disk/by-path/pci-0000:04:00:0-fc-0x500b342002514901-lun-3 is
3600b342d4ef82e60a3d5450000004.
2021-05-28 17:09:46 [NR51] [33024] (ocfs2_disk_multi_part_check): INFO:disk /dev/disk/by-path/pci-0000:04:00:0-fc-0x500b342002514901-lun-3 with 3600b3
42d4ef82e60a3d5450000004 has 0 disk part(s).
2021-05-28 17:09:51 [NR51] [33024] (ocfs2_disk_format_check): ERROR:disk /dev/disk/by-id/dm-name-3600b342d4ef82e60a3d5450000004 had been mounted by
other hosts, not need to format it.
2021-05-28 17:09:57 [35218] (ocfs2_mount_check.py/101L): WARNING:Storage pool /etc/libvirt/storage/g35-SATA-2.xml mountpoint /vms/g35-SATA-2,
2021-05-28 17:09:57 [35218] (ocfs2_mount_check.py/62L): WARNING:multipath scsi check:/dev/disk/by-id/dm-name-3600b342d4ef82e60a3d5450000004
2021-05-28 17:09:57 [35218] (ocfs2_mount_check.py/141L): WARNING:check regionpath dir, clustername NR STRUUID EA68857168204A91ABE89819CF46CDE
2021-05-28 17:10:02 [35218] (ocfs2_mount_check.py/209L): ERROR:command 'debugfs.ocfs2 -R "stats -h" /dev/disk/by-id/dm-name-3600b342d4ef82e60a3d545000
0004 [prep "disk-lock" 2>>/dev/null]' returned non-zero exit status 1.
2021-05-28 17:10:04 [35218] (ocfs2_mount_check.py/209L): ERROR:command 'debugfs.ocfs2 -R "stats -h" /dev/disk/by-id/dm-name-3600b342d4ef82e60a3d545000
0004 [prep "disk-lock" 2>>/dev/null]' returned non-zero exit status 1.
2021-05-28 17:10:04 [35218] (ocfs2_mount_check.py/209L): ERROR:command 'debugfs.ocfs2 -R "stats -h" /dev/disk/by-id/dm-name-3600b342d4ef82e60a3d545000
0004 [prep "disk-lock" 2>>/dev/null]' returned non-zero exit status 1.
2021-05-28 17:10:04 [35218] (ocfs2_mount_check.py/736L): ERROR:o2cb parameters mismatch host 192.168.150.74.
2021-05-28 17:10:04 [35218] (ocfs2_mount_check.py/749L): ERROR:There are 5 active ocfs2 pools on the host, please inactive them and try to start again.
2021-05-28 17:12:51 [NR51] [43328] (ocfs2_disk_multi_part_check): DEBUG:disk /dev/disk/by-id/dm-name-3600b342d4ef82e60a3d5450000004 lvs 0.
2021-05-28 17:17:46 [NR51] [43328] (disk_lv_monitor): DEBUG:3600b342d4ef82e60a3d5450000004 lvs 0.
2021-05-28 17:17:46 [NR51] [43328] (ocfs2_disk_multi_part_check): ERROR:disk /dev/disk/by-path/pci-0000:00:11:0-scsi-0:0:0:0 naa get error
2021-05-28 17:17:46 [NR51] [43328] (ocfs2_disk_multi_part_check): DEBUG:naa of disk /dev/disk/by-path/pci-0000:04:00:0-fc-0x500b342002514901-lun-3 is
3600b342d4ef82e60a3d5450000004.
2021-05-28 17:17:46 [NR51] [43328] (ocfs2_disk_multi_part_check): INFO:disk /dev/disk/by-path/pci-0000:04:00:0-fc-0x500b342002514901-lun-3 with 3600b3
42d4ef82e60a3d5450000004 has 0 disk part(s).
2021-05-28 17:17:51 [NR51] [43328] (ocfs2_disk_format_check): ERROR:disk /dev/disk/by-id/dm-name-3600b342d4ef82e60a3d5450000004 had been mounted by
other hosts, not need to format it.
2021-05-28 17:17:57 [43328] (ocfs2_mount_check.py/101L): WARNING:Storage pool /etc/libvirt/storage/g35-SATA-2.xml mountpoint /vms/g35-SATA-2,
2021-05-28 17:17:57 [43328] (ocfs2_mount_check.py/62L): WARNING:multipath scsi check:/dev/disk/by-id/dm-name-3600b342d4ef82e60a3d5450000004
2021-05-28 17:17:57 [43328] (ocfs2_mount_check.py/141L): WARNING:check regionpath dir, clustername NR STRUUID EA68857168204A91ABE89819CF46CDE
2021-05-28 17:18:02 [43328] (ocfs2_mount_check.py/209L): ERROR:command 'debugfs.ocfs2 -R "stats -h" /dev/disk/by-id/dm-name-3600b342d4ef82e60a3d545000
0004 [prep "disk-lock" 2>>/dev/null]' returned non-zero exit status 1.
2021-05-28 17:18:04 [43328] (ocfs2_mount_check.py/209L): ERROR:command 'debugfs.ocfs2 -R "stats -h" /dev/disk/by-id/dm-name-3600b342d4ef82e60a3d545000
0004 [prep "disk-lock" 2>>/dev/null]' returned non-zero exit status 1.
2021-05-28 17:18:04 [43328] (ocfs2_mount_check.py/736L): ERROR:o2cb parameters mismatch host 192.168.150.74.
2021-05-28 17:18:04 [43328] (ocfs2_mount_check.py/749L): ERROR:There are 5 active ocfs2 pools on the host, please inactive them and try to start again.
```

在两台主机后台检查o2cb参数，ubuntu版本可以使用service o2cb status查看，centos版本可通过cat /etc/default/o2cb进行检查，

```
root@NR74:~# service o2cd status
o2cd: unrecognized service
root@NR74:~# service o2cb status
Driver for "configs": Loaded
Filesystem "configs": Mounted
Stack glue driver: Loaded
Stack plugin "o2cb": Loaded
Driver for "ocfs2_dlmfs": Loaded
Filesystem "ocfs2_dlmfs": Mounted
Checking o2cb cluster "NR": online
Heartbeat dead threshold: 31
Network idle timeout: 3000
Network keepalive delay: 2000
Network reconnect delay: 2000
Fence Method: umount
HBIO Type: nonbio
HBIO Retries: 2
HBIO Timeout: 30
Heartbeat mode: Local
Checking O2CB heartbeat: Active

root@NR51:~# service o2cb status
Driver for "configs": Loaded
Filesystem "configs": Mounted
Stack glue driver: Loaded
Stack plugin "o2cb": Loaded
Driver for "ocfs2_dlmfs": Loaded
Filesystem "ocfs2_dlmfs": Mounted
Checking o2cb cluster "NR": online
Heartbeat dead threshold: 61
Network idle timeout: 90000
Network keepalive delay: 10000
Network reconnect delay: 2000
Fence Method: umount
HBIO Type: nonbio
HBIO Retries: 2
HBIO Timeout: 30
Heartbeat mode: Local
Checking O2CB heartbeat: Active
```

出现三个参数不一致这种情况，是由于将老版本CAS集群（2.0/3.0）中主机直接加入到新版本环境中，而老版本中参数设置时间较短，在现网使用过程中出现的一些问题在新版本进行了参数的调整。

另一种常见情形是主机的Heartbeat dead threshold参数不一致，这种情况是由于在对接onestor存储场景下修改过fence时长，后期进行主机扩容时加入集群后没有修改该参数。

解决方法

Heartbeat dead threshold参数可以在线修改，参照技术公告《关于CAS/UIS6.0和ONEStor配合组网修改fence时长的公告》，知了链接：<https://zhiliao.h3c.com/Theme/details/55281>；

另两个参数Network idle timeout和Network keepalive delay必须在离线的情况下进行修改，参照心跳参数修改方法。

如有疑问，可以联系400进行确认。

