# 问题: 一块磁盘不能读写

```
数据目录状态 (CDH-PRODUCT-V1, HDFS, DataNode, cdh81-33)
测试该 DataNode 是否出现卷故障。
不良:该 DataNode 当前有 1 个卷故障。临界阈值:任意。
```

### 系统错误日志:

```
Oct 31 23:20:02 cdh81-33 systemd: Starting Session 540562 of user root.
Oct 31 23:20:02 cdh81-33 systemd-logind: Removed session 540562.
Oct 31 23:20:10 cdh81-33 systemd-logind: New session 540563 of user root.
Oct 31 23:20:10 cdh81-33 systemd-logind: New session 540563 of user root.
Oct 31 23:20:10 cdh81-33 systemd: Started Session 540563 of user root.
Oct 31 23:20:10 cdh81-33 systemd: Starting Session 540563 of user root.
Oct 31 23:20:10 cdh81-33 systemd-logind: Removed session 540563.
Oct 31 23:20:27 cdh81-33 systemd-logind: Removed session 540564.
Oct 31 23:20:28 cdh81-33 systemd-logind: New session 540564 of user root.
Oct 31 23:20:28 cdh81-33 systemd-logind: New session 540564 of user root.
Oct 31 23:20:28 cdh81-33 systemd-logind: Removed session 540564.
Oct 31 23:20:28 cdh81-33 systemd-logind: Removed session 540564.
Oct 31 23:20:28 cdh81-33 systemd-logind: New session 540565 of user root.
Oct 31 23:20:31 cdh81-33 systemd-logind: New session 540565 of user root.
Oct 31 23:20:31 cdh81-33 systemd-logind: New session 540565 of user root.
Oct 31 23:20:31 cdh81-33 systemd-logind: Removed session 540565 of user root.
Oct 31 23:20:31 cdh81-33 systemd-logind: Removed session 540565 of user root.
Oct 31 23:20:31 cdh81-33 systemd-logind: Removed session 540565 of user root.
Oct 31 23:20:31 cdh81-33 systemd-logind: Removed session 540565 of user root.
Oct 31 23:20:31 cdh81-33 systemd-logind: Removed session 540565.
Oct 31 23:20:31 cdh81-33 systemd-Removed session 540565.
Oct 31 23:20:32 cdh81-33 systemd-Removed session 540565.
```

# 解决方法:

```
重启机器
umount /dfs/data3
mke2fs -L data /dev/sdc
mks.xfs -f /dev/sdc
mount -t xfs /dev/sdc /dfs/data3
```

# 下面是处理步骤:

#### df -h 查看:

```
[root@cdh81-33 ~]# df -h
Filesystem
                      Size Used Avail Use% Mounted on
                            0 252G
592K 252G
                                           0% /dev
1% /dev/shm
devtmpfs
                      252G
tmpfs
                       252G
tmpfs
                            4.0G
                                   248G
                      252G
                                           2% /run
umprs 252G
/dev/mapper/ol-root 554G
                                           0% /sys/fs/cgroup
                                   252G
                               Θ
                                   533G
                              21G
                                           4% /
                             176M
                                          18% /boot
/dev/sdg1
                      1014M
                                   839M
                                    51G
tmpfs
                       51G
                                           0% /run/user/0
/dev/sda
                       1.1T
                             902G
                                   217G
                                          81% /dfs/datal
                             903G
                                   215G
                                          81% /dfs/data2
/dev/sdb
                       1.1T
                                          82% /dfs/data3
81% /dfs/data4
                                   210G
/dev/sdc
                       1.1T
                             908G
                       1.1T
                             904G
/dev/sdd
                                   215G
                                          84% /dfs/data5
                                   190G
/dev/sde
                             928G
                      1.1T
/dev/sdf
                                   205G
                             913G
                                          82% /dfs/data6
                      1.1T
                      252G 115M
                                   252G
                                           1% /run/cloudera-scm-agent/process
cm_processes
[root@cdh81-33 ~]#
```

### 但是data3不能写入数据:

```
drwxr-xr-x. 4 root root 50 Dec 6 2017 yarn
[root@cdh81-33 datal]# cp aa.txt /dfs/data2
[root@cdh81-33 datal]# cp aa.txt /dfs/data3
cp: failed to access '/dfs/data3': Input/output error
[root@cdh81-33 datal]# cp aa.txt /dfs/data4
[root@cdh81-33 datal]# cp aa.txt /dfs/data5
[root@cdh81-33 datal]# cp aa.txt /dfs/data6
[root@cdh81-33 datal]#
```

## 不能umount,而且挂载目录data3 权限用户都是"?"号

#### 查看占用的进程:

```
[root@cdh81-33 dfs]# fuser -cu /dfs/data3
Cannot stat /dfs/data3: Input/output error
Cannot stat file /proc/1447878/fd/3: Input/output error
Cannot stat file /proc/1447907/fd/341: Input/output error
Cannot stat file /proc/1448008/fd/1: Input/output error
Cannot stat file /proc/1448008/fd/2: Input/output error
Cannot stat file /proc/1448008/fd/349: Input/output error
Cannot stat file /proc/1448010/fd/1: Input/output error
Cannot stat file /proc/1448010/fd/2: Input/output error
Cannot stat file /proc/1448010/fd/334: Input/output error
Cannot stat file /proc/1593075/fd/3: Input/output error Cannot stat file /proc/1593078/fd/4: Input/output error Cannot stat file /proc/1593081/fd/3: Input/output error Cannot stat file /proc/1593081/fd/3: Input/output error
 Cannot stat file /proc/1593101/fd/327: Input/output error
Cannot stat file /proc/1593177/fd/327: Input/output error Cannot stat file /proc/1593183/fd/327: Input/output error Cannot stat file /proc/1593186/fd/327: Input/output error Cannot stat file /proc/1593186/fd/327: Input/output error
Cannot stat file /proc/1593192/fd/327: Input/output error
 [root@cdh81-33 dfs]#
 [root@cdh81-33 dfs]#
 [root@cdh81-33 dfs]#
[root@cdh81-33 dfs]# fuser -ck /dfs/data3
Cannot stat /dfs/data3: Input/output error
Cannot stat file /proc/1447878/fd/3: Input/output error
Cannot stat file /proc/1447907/fd/341: Input/output error
Cannot stat file /proc/1448008/fd/1: Input/output error
Cannot stat file /proc/1448008/fd/2: Input/output error
 Cannot stat file /proc/1448008/fd/349: Input/output error
 Cannot stat file /proc/1448010/fd/1: Input/output error
Cannot stat file /proc/1448010/fd/2: Input/output error
Cannot stat file /proc/1448010/fd/334: Input/output error
Cannot stat file /proc/1448010/fd/354: Input/output error Cannot stat file /proc/1593075/fd/3: Input/output error Cannot stat file /proc/1593078/fd/4: Input/output error Cannot stat file /proc/1593101/fd/327: Input/output error Cannot stat file /proc/1593177/fd/327: Input/output error Cannot stat file /proc/1593177/fd/327: Input/output error
Cannot stat file /proc/1593183/fd/327: Input/output error
Cannot stat file /proc/1593186/fd/327: Input/output error
 Cannot stat file /proc/1593192/fd/327: Input/output error
  root@cdh81-33 dfs]#
```

Kill 1447878 . .

#### 手动 kill 进程之后 可以umount了

```
[root@cdh81-33 dfs]# umount /dfs/data3
[root@cdh81-33 dfs]# mount /dev/sdc /dfs/data3
mount: mount /dev/sdc on /dfs/data3 failed: Remote I/O error
[root@cdh81-33 dfs]# ll
total 0
```

但是 mount的时候报错

[root@cdh81-33 ~]# mount -t xfs /dev/sdc /dfs/data3 mount: mount /dev/sdc on /dfs/data3 failed: Remote I/O error

## 重新格式化也不行:

 $[root@cdh81-33 \ ^{\sim}]$ # mkfs.xfs /dev/sdc

mkfs.xfs: /dev/sdc appears to contain an existing filesystem (xfs).

mkfs.xfs: Use the -f option to force overwrite.

[root@cdh81-33 ~]# mkfs.xfs -f /dev/sdc

meta-data=/dev/sdc isize=256 agcount=4,

agsize=73257062 blks

= sectsz=512

attr=2, projid32bit=1

= crc=0

finobt=0, sparse=0

data = bsize=4096

blocks=293028246, imaxpct=5

= sunit=0

swidth=0 blks

naming =version 2 bsize=4096 ascii-ci=0

ftype=1

log =internal log bsize=4096 blocks=143080,

version=2

= sectsz=512

sunit=0 blks, lazy-count=1

realtime =none extsz=4096 blocks=0,

rtextents=0

mkfs.xfs: pwrite64 failed: Input/output error

[root@cdh81-33 ~]#

## 检查磁盘,没有坏道

badblocks -s -v -o /opt/badblocks.log /dev/sdc

```
[root@cdh81-33 ~]# badblocks -s -v -o /opt/badblocks.log /dev/sdc
Checking blocks 0 to 1172112983
Checking for bad blocks (read-only test): done
Pass completed, 0 bad blocks found. (0/0/0 errors)
[root@cdh81-33 ~]#
```

### 重启机器

#### 格式化磁盘

mke2fs -L data /dev/sdc

```
THE STATE OF THE
```

(have trouble writing out superblocks)

mks.xfs -f /dev/sdc
mount -t xfs /dev/sdc /dfs/data3

最终问题解决了。

umount /dfs/data3 如果一次不行 重试多次。