

组网及说明

E0535

问题描述

集群中原有4台cvk，新扩容了两台，在启动新扩容cvk的存储时，报错：internal error: OCFS2 configuration error, cluster.conf do not match all remote host. please add the storage again or make sure storage is only managed by this CVM.

过程分析

cvk4为新添加的主机，查看/var/log/ocfs_shell_202007.log，发现在启动时有如下报错：

```
2020-07-31 16:39:43 [23727] util_common_tools.py/209L: ERROR:Command 'debugfs.ocfs2 -R "stats -h" /dev/disk/by-id/dm-name-360002ac000000000000000170001e256 |grep "disk-lock"
2>>/dev/null' returned non-zero exit status 1
```

```
2020-07-31 16:39:43 [23727] ocfs2_mount_check.py/545L: ERROR:cluster.conf mismatch host 10.166.77.19, node count is different.
```

```
2020-07-31 16:39:43 [23727] ocfs2_mount_check.py/545L: ERROR:cluster.conf mismatch host 10.166.77.20, node count is different.
```

```
2020-07-31 16:39:43 [23727] ocfs2_mount_check.py/545L: ERROR:cluster.conf mismatch host 10.166.77.18, node count is different.
```

```
2020-07-31 16:39:46 [24018] ocfs2_share_filesystem_check.py/103L: ERROR:Command 'grep -w ocfs2 /proc/mounts' returned non-zero exit status 1
2020-07-31 16:39:46 [24018] ocfs2_share_filesystem_check.py/104L: ERROR:Traceback (most recent call last): File
```

```
"ocfs2_share_filesystem_check.py", line 88, in get_mounted_ocfs2_pools File
```

```
"/usr/lib/python2.7/subprocess.py", line 544, in check_output raise CalledProcessError(retcode, cmd, output=output) CalledProcessError: Command 'grep -w ocfs2 /proc/mounts' returned non-zero exit status 1
```

提示cvk4和之前集群中原有cvk上的cluster配置文件不一致，例如cvk1：

```
cat /etc/ocfs2/cluster.conf
```

```
1 cluster:
2   node_count = 4
3   name = PZH-JB-GGJH-Hostpool
4 node:
5   number = 1
6   cluster = PZH-JB-GGJH-Hostpool
7   ip_port = 7100
8   ip_address = 10.166.77.18
9   name = PZH-JB-GGJH-DL380-VCK1
10 node:
11   number = 4
12   cluster = PZH-JB-GGJH-Hostpool
13   ip_port = 7100
14   ip_address = 10.166.77.19
15   name = PZH-JB-GGJH-DL380-VCK2
16 node:
17   number = 2
18   cluster = PZH-JB-GGJH-Hostpool
19   ip_port = 7100
20   ip_address = 10.166.77.20
21   name = PZH-JB-GGJH-DL380-VCK3
22 node:
23   number = 3
24   cluster = PZH-JB-GGJH-Hostpool
25   ip_port = 7100
26   ip_address = 10.166.77.17
27   name = PZH-JB-GGJH-DL380-VCM1
```

只包括了集群中原有的4台cvk，没有包含新加的节点，手动同步以后启动还是会报错。而且即使修改了cluster文件，在尝试重新添加cvk4进入集群时，cluster配置文件又将还原。cvk1上的/var/log/ocfs_shell_202007.log 报错如下：

```
2020-07-31 16:40:01 [31371] ocfs2_cluster_config.py/678L: WARNING:Nodes [{'name': 'PZH-JB-GGJH-R4900-CVK4', 'type': 'node', 'number': '5', 'ip_port': '7100', 'cluster': 'PZH-JB-GGJH-Hostpool', 'ip_address': '10.166.77.248'}] are missing, will add them
```

```
2020-07-31 16:40:01 [31371] ocfs2_cluster_config.py/255L: WARNING:ocfs2 add new node(PZH-JB-GGJH-R4900-CVK4) failed, with errno 251
```

```
2020-07-31 16:40:01 [31371] ocfs2_cluster_config.py/681L: ERROR:add nodes failed
```

```
2020-07-31 16:40:01 [31371] ocfs2_cluster_config.py/958L: ERROR:process ocfs2_cluster_conf_diff failed.
```

在启动cvk4存储时，系统会将cvk4加入到cluster配置文件中，但是添加失败

cvk1输入uptime，发现系统已经运行了400多天。现场535版本应该是升级上来的，而运行了这么多天的系统，应该是在升级过后，没有重启主机。

如果不重启主机，内核状态不会刷新，导致ocfs2集群扩容节点时出错

解决方法

重启升级上来的几台主机，启动存储正常了。