



# CAS存储池无法启动“心跳正在退出或存在于集群之外”

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## 组网及说明

CAS/UIS虚拟化环境+共享存储

问题描述

前台启动共享存储时报错存储池“心跳正在退出或存在于集群之外”

| 显示名称                 | 类型     | 路径                            | 容量      | 已用容量     | 可用容量    | 状态    | 操作          |
|----------------------|--------|-------------------------------|---------|----------|---------|-------|-------------|
| ShareFile_ONESOL...  | 共享文件系统 | AmmaShareFile_ONESOL_1STBLUN3 | 15.00TB | 109.62TB | 7.02TB  | ● 活动  | 🔍 📄 🗑️ ✂️ 🔄 |
| ShareFile_ONESOL...  | 共享文件系统 | AmmaShareFile_ONESOL_1STBLUN5 | 15.00TB | 122.25TB | 6.70TB  | ● 活动  | 🔍 📄 🗑️ ✂️ 🔄 |
| ShareFile_ONESOL...  | 共享文件系统 | AmmaShareFile_ONESOL_1STBLUN7 | 15.00TB | 87.72TB  | 9.57TB  | ● 活动  | 🔍 📄 🗑️ ✂️ 🔄 |
| ShareFile_ONESOL...  | 共享文件系统 | AmmaShareFile_ONESOL_1STBLUN9 | 15.00TB | 72.69TB  | 6.05TB  | ● 活动  | 🔍 📄 🗑️ ✂️ 🔄 |
| Cluster1-1ShareFI... | 共享文件系统 | AmmaCluster1-1ShareFI...      |         |          | 5.99TB  | ● 活动  | 🔍 📄 🗑️ ✂️ 🔄 |
| Cluster1-2ShareFI... | 共享文件系统 | AmmaCluster1-2ShareFI...      |         |          | 3.63TB  | ● 活动  | 🔍 📄 🗑️ ✂️ 🔄 |
| Cluster1-3ShareFI... | 共享文件系统 | AmmaCluster1-3ShareFI...      |         |          | 9.42TB  | ● 活动  | 🔍 📄 🗑️ ✂️ 🔄 |
| 3par_ssd_16T_Jun1    | 共享文件系统 | Amma3par_ssd_16T_Jun1         |         |          | 7.50TB  | ● 活动  | 🔍 📄 🗑️ ✂️ 🔄 |
| 3par_H1C1_ssd_...    | 共享文件系统 | Amma3par_H1C1_ssd_...         |         |          | 13.22TB | ● 活动  | 🔍 📄 🗑️ ✂️ 🔄 |
| 3par_H1C1_ssd_...    | 共享文件系统 | Amma3par_H1C1_ssd_...         |         |          | 31.90TB | ● 不活动 | 🔍 📄 🗑️ ✂️ 🔄 |

错误提示

存储池 3par\_H1C1\_ssd\_32T 与 n1 心跳正在退出或存在于集群之外。

确定

存储池

新建存储池 上传文件 挂载存储 卸载存储 请输入文件名称

文件名称 文件大小 已用容量 类型 数据块数 所有者 操作

## 过程分析

①在启动不成功的cvk后台看 /var/log/fsm/fsm\_core.log日志，发现存在以下报错，10.229.23.2非故障节点。

```
2021-10-25 09:46:25,703 os_utils:327 ERROR Execute ps -ef | grep "[o2hb-ECCA100F51\]" on 10.229.23.2 failed, Unexpected error while running [timeout 15 ssh -q -o ServerAliveInterval=5 -o ServerAliveCountMax=2 -o ConnectionAttempts=2 root@10.229.23.2 ps -ef | grep "\[o2hb-ECCA100F51\]"] Exit code: 1 2021-10-25 09:46:25,703 ocfs2:339 ERROR Query heartbeat thread failed, Unexpected error while running [timeout 15 ssh -q -o ServerAliveInterval=5 -o ServerAliveCountMax=2 -o ConnectionAttempts=2 root@10.229.23.2 ps -ef | grep "\[o2hb-ECCA100F51\]"] Exit code: 1 2021-10-25 09:46:25,704 ocfs2:696 ERROR Fs is not mounted on 10.229.23.2, maybe mount on other cluster or CVM. 2021-10-25 09:46:25,728 wsgi:296 ERROR Heartbeat on 10.229.23.2 is exiting or started outside of cluster
```

②ssh 到日志中提到的节点10.229.23.2，有以下报错，免密失效。

```
root@NX-ZWE-1202-E06-08U-CVM02-H3CR4700:~#
root@NX-ZWE-1202-E06-08U-CVM02-H3CR4700:~# ssh 10.229.23.2
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@   WARNING: REMOTE HOST IDENTIFICATION HAS CHANGED!   @
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
IT IS POSSIBLE THAT SOMEONE IS DOING SOMETHING NASTY!
Someone could be eavesdropping on you right now (man-in-the-middle attack)!
It is also possible that a host key has just been changed.
The fingerprint for the ECDSA key sent by the remote host is
f0:c6:7d:ff:6f:e3:a3:47:fa:ab:7a:0f:ba:b6:45:e9.
Please contact your system administrator.
Add correct host key in /root/.ssh/known_hosts to get rid of this message.
Offending ECDSA key in /root/.ssh/known_hosts:37
  remove with: ssh-keygen -f "/root/.ssh/known_hosts" -R 10.229.23.2
Password authentication is disabled to avoid man-in-the-middle attacks.
Keyboard-interactive authentication is disabled to avoid man-in-the-middle attacks.
Authorized users only. All activity may be monitored and reported
Last login: Mon Oct 25 16:56:02 2021 from 10.229.23.9
root@NX-ZWE-1202-E06-14U-CVMNode34-H3CR4700:~# ssh-keygen -f "/root/.ssh/known_hosts" -R 10.229.23.2
# Host 10.229.23.2 found: line 1 type ECDSA
/root/.ssh/known_hosts updated.
Original contents retained as /root/.ssh/known_hosts.old
root@NX-ZWE-1202-E06-14U-CVMNode34-H3CR4700:~# exit
logout
Connection to 10.229.23.2 closed.
root@NX-ZWE-1202-E06-08U-CVM02-H3CR4700:~#
root@NX-ZWE-1202-E06-08U-CVM02-H3CR4700:~# crm status
master : NX-ZWE-1202-E06-08U-CVM02-H3CR4700 (Online)
slave  : NX-ZWE-1202-E06-10U-CVM01-H3CR4700 (Online)
quorum : [ping] 10.229.23.254 10.229.23.9
-----
webip : [10.229.23.241] Started NX-ZWE-1202-E06-08U-CVM02-H3CR4700
Master/Slave Set: [/var/lib/mysql/share]
  Master: [NX-ZWE-1202-E06-08U-CVM02-H3CR4700]
  Slave : [NX-ZWE-1202-E06-10U-CVM01-H3CR4700]
Master/Slave Set: [/vms/temp]
  Master: [NX-ZWE-1202-E06-08U-CVM02-H3CR4700]
  Slave : [NX-ZWE-1202-E06-10U-CVM01-H3CR4700]
mysql : Started NX-ZWE-1202-E06-08U-CVM02-H3CR4700
tomcat: Started NX-ZWE-1202-E06-08U-CVM02-H3CR4700
```

③按照上图执行ssh-keygen -f "/root/.ssh/known\_hosts" -R 10.229.23.2

更新节点间免密，存储卷成功启动

## 解决方法

某节点免密失效导致节点间通信失败，因此无法启动共享存储卷

