

知 CAS 虚拟机关机迁移存储提示internal error: client socket is closed

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组网及说明

CAS E0535P12

问题描述

虚拟机关机进行存储的迁移后提示：internal error: client socket is closed
在目的端存储池下已有磁盘文件，且与源端大小一致

虚拟机	源端	2021-09-06 14:35:11	虚拟机迁移	虚拟机迁移	虚拟机迁移	成功
虚拟机	源端	2021-09-06 14:25:54	虚拟机迁移	虚拟机迁移	虚拟机迁移	成功
虚拟机	源端	2021-09-05 09:11:12	虚拟机迁移	虚拟机迁移	虚拟机迁移	成功
虚拟机	源端	2021-09-04 16:27:05	虚拟机迁移	虚拟机迁移	虚拟机迁移	失败
虚拟机	源端	2021-09-04 13:21:24	虚拟机迁移	虚拟机迁移	虚拟机迁移	成功
虚拟机	源端	2021-09-04 13:09:43	虚拟机迁移	虚拟机迁移	虚拟机迁移	成功
虚拟机	源端	2021-09-04 12:24:24	虚拟机迁移	虚拟机迁移	虚拟机迁移	失败
虚拟机	源端	2021-09-04 09:00:14	虚拟机迁移	虚拟机迁移	虚拟机迁移	成功

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过程分析

迁移过程中client端和server端的通讯通过心跳包来确认连接是否正常，迁移中cvm作为server端，cvk作为client端，如果出现网络不稳定导致心跳包没有接收到则认为网络断开，client端会关闭socket连接。

现场CAS版本client端和server端之间心跳包个数为5（cvk的/etc/libvirt/libvirtd.conf中keepalive_count参数），当cvm与cvk之间30s内没有数据包传递时会发送5个心跳包检测连接是否正常，当出现网络波动时client端或server端收不到心跳包或者回包，client端则会关闭socket连接。

解决方法

临时解决方案: CAS E0710之前版本将cvk的/etc/libvirt/libvirtd.conf中keepalive_count参数由5改为360, 重启libvirt服务 (libvirt-bin.service), 如果目的端存储已经有磁盘文件, 删除后再次进行迁移。该参数修改操作只针对单cvk生效。

重启libvirt服务, 该操作需要谨慎。如果有幽灵虚拟机、中文虚拟机或者hung up进程会导致环境出现异常。

```
#####  
# Keepalive protocol:  
# This allows libvirtd to detect broken client connections or even  
# dead clients. A keepalive message is sent to a client after  
# keepalive_interval seconds of inactivity to check if the client is  
# still responding; keepalive_count is a maximum number of keepalive  
# messages that are allowed to be sent to the client without getting  
# any response before the connection is considered broken. In other  
# words, the connection is automatically closed approximately after  
# keepalive_interval * (keepalive_count + 1) seconds since the last  
# message received from the client. If keepalive_interval is set to  
# -1, libvirtd will never send keepalive requests; however clients  
# can still send them and the daemon will send responses. When  
# keepalive_count is set to 0, connections will be automatically  
# closed after keepalive_interval seconds of inactivity without  
# sending any keepalive messages.  
#  
keepalive_interval = 30  
keepalive_count = 360
```

彻底解决方案: 升级至CAS E0710之后版本, 建议升级当前最新版本, 可在iservice查询最新版本

