

虚拟机磁盘在线扩容失败，报错“internal error: unable to execute QEMU command 'block_resize': Can't resize an image which has bitmaps”

李颜 2021-12-12 发表

组网及说明

CAS E0535H05

问题描述

虚拟机在线/离线扩容均失败：

操作描述	执行结果	失败原因
修改虚拟机'Prod_DC-YC2'配置。	失败	internal error: unable to
启动虚拟机'Prod_DC-YC2'。	成功	internal error: unable to execute QEMU command 'block_resize': Can't resize an image which has bitmaps
修改虚拟机'Prod_DC-YC2'配置。	失败	
修改虚拟机'Prod_DC-YC2'配置。	失败	修改存储空间失败。
断开虚拟机'Prod_DC-YC2'数据。	成功	

过程分析

1、虚拟机没有快照和多级镜像

```
root@YC-COR-V01:~# virsh domblklist Prod_DC-YC2
Target      Source
-----
vda         /vms/IT-yw1-7T/Prod_DC-YC2
fda         -
hda         -

root@YC-COR-V01:~# qemu-img info /vms/IT-yw1-7T/Prod_DC-YC2
image: /vms/IT-yw1-7T/Prod_DC-YC2
file format: qcow2
virtual size: 40G (42949672960 bytes)
disk size: 39G
cluster_size: 262144
Format specific information:
  compat: 1.1
  lazy refcounts: false
  refcount bits: 16
  corrupt: false
root@YC-COR-V01:~#
```

2、qemu-img check磁盘文件未损坏

3、cas.log相关报错:

在线扩容:

2021-12-07 09:22:27 [ERROR] [Domain Request Processor Manager 5]

[com.virtual.plat.server.virtualhost.DomainHandler::modifyDomain] null

com.virtual.plat.server.vm.vmm.HypervisorException: internal error: unable to execute QEMU command "block_resize": Can't resize an image which has bitmaps

离线扩容:

2021-12-07 09:14:07 [ERROR] [Thread-7] [com.virtual.plat.server.RequestHandler::a]

requestHandler: msg id is 0, waiting. countDown is 5

2021-12-07 09:14:07 [ERROR] [http-nio-8080-exec-219]

[com.virtual.plat.server.vm.ssh.SecureShellManagerImpl::execCmd] Execute command Error Msg:ls:

cannot access /var/lib/libvirt/qemu/save/Prod_DC-YC2.save: No such file or directory

4、libvirt.log相关报错:

2021-12-07 09:22:27.358+0000: 121601: error : qemuMonitorJSONCheckError:392 : internal error: unable to execute QEMU command "block_resize": Can't resize an image which has bitmaps

解决方法

该问题在虚拟机进行过CBT增量备份时出现，为qemu 2.12版本bug，解决方法如下：

- 1、虚拟机关机，备份磁盘文件
- 2、qemu-img bitmap dump <filename>| less，记录bitmap信息

```
# casbackup_vm_20210622002546_main
Offset      Length
1048576      262144
4718592      524288
9699328      262144
14942208     262144
28835840     262144
188481536    262144
192937984    262144
576716800    262144
584318976    11010048
605552640    11272192
```

- 3、执行qemu-img bitmap rm <filename> <bitmap>删除磁盘上的bitmap

```
root@YC-COR-V01:~# qemu-img bitmap dump /vms/IT-yw1-7T/Prod_DC-YC2 |less
root@YC-COR-V01:~# qemu-img bitmap dump /vms/IT-yw1-7T/Prod_DC-YC2 |less
root@YC-COR-V01:~# qemu-img bitmap rm /vms/IT-yw1-7T/Prod_DC-YC2 casbackup_vm_20210622002546_main
```

- 4、再次执行qemu-img bitmap dump <filename>查看是否删除干净

```
root@YC-COR-V01:~# qemu-img bitmap rm /vms/IT-yw1-7T/Prod_DC-YC2 casbackup_vm_20210622002546_main
root@YC-COR-V01:~# qemu-img bitmap dump /vms/IT-yw1-7T/Prod_DC-YC2
No bitmaps are present in this image.
root@YC-COR-V01:~#
```

- 5、前台可正常扩容

