

# 因虚拟机快照导致的cloudos上修改虚拟机cpu和内存规格失败，导致虚拟机状态异常

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## 组网及说明

cloudos纳管CAS

## 问题描述

用户在cloudos上修改虚拟机CPU和内存规格，提示失败后，虚拟机状态变为异常，CAS上查看虚拟机的CPU和内存未发生改变。

## 过程分析

1、我们可以到cloudos后台登录到对应的计算节点容器中查看nova-compute日志；日志的具体位置在计算节点容器中，/var/log/nova/nova-compute。

- 下图，可以通过搜索虚拟机的uuid进行查看，可以看到这是cloudos上下发的更改规格为4vcpu和4G内存的任务日志：Attempting claim: memory 4096 MB, disk 100 GB, vcpus 4 CP

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2019-03-23 13:23:34.164 629 INFO nova.compute.claims [req-384a20cc-497a-4b8f-b047-ee34e358085 1df71957d778436493a84f24d9344853 9052ae85792143f1955c35c52e8e41bd - - - ] Instance: [redacted] Attempting claim: memory 4096 MB, disk 100 GB, vcpus 4 CPU
2019-03-23 13:23:34.165 629 INFO nova.compute.claims [req-384a20cc-497a-4b8f-b047-ee34e358085 1df71957d778436493a84f24d9344853 9052ae85792143f1955c35c52e8e41bd - - - ] Instance: [redacted] Total memory: 772673 MB, used: 213504.00 MB
2019-03-23 13:23:34.165 629 INFO nova.compute.claims [req-384a20cc-497a-4b8f-b047-ee34e358085 1df71957d778436493a84f24d9344853 9052ae85792143f1955c35c52e8e41bd - - - ] Instance: [redacted] Total disk: 46249 GB, used: 2729.00 GB
2019-03-23 13:23:34.165 629 INFO nova.compute.claims [req-384a20cc-497a-4b8f-b047-ee34e358085 1df71957d778436493a84f24d9344853 9052ae85792143f1955c35c52e8e41bd - - - ] Instance: [redacted] memory limit not specified, defaulting to unlimited
2019-03-23 13:23:34.166 629 INFO nova.compute.claims [req-384a20cc-497a-4b8f-b047-ee34e358085 1df71957d778436493a84f24d9344853 9052ae85792143f1955c35c52e8e41bd - - - ] Instance: [redacted] disk limit not specified, defaulting to unlimited
2019-03-23 13:23:34.166 629 INFO nova.compute.claims [req-384a20cc-497a-4b8f-b047-ee34e358085 1df71957d778436493a84f24d9344853 9052ae85792143f1955c35c52e8e41bd - - - ] Instance: [redacted] vcpu limit not specified, defaulting to unlimited
2019-03-23 13:23:34.166 629 INFO nova.compute.claims [req-384a20cc-497a-4b8f-b047-ee34e358085 1df71957d778436493a84f24d9344853 9052ae85792143f1955c35c52e8e41bd - - - ] Instance: [redacted] Claim successful
2019-03-23 13:23:34.223 629 INFO nova.compute.resource_tracker [req-384a20cc-497a-4b8f-b047-ee34e358085 1df71957d778436493a84f24d9344853 9052ae85792143f1955c35c52e8e41bd - - - ] Updating from migration [redacted]
2019-03-23 13:23:34.263 629 INFO nova.compute.origin_manager [req-384a20cc-497a-4b8f-b047-ee34e358085 1df71957d778436493a84f24d9344853 9052ae85792143f1955c35c52e8e41bd - - - ] Instance: [redacted] Migrating
2019-03-23 13:23:34.263 629 INFO nova.compute.origin_manager [req-384a20cc-497a-4b8f-b047-ee34e358085 1df71957d778436493a84f24d9344853 9052ae85792143f1955c35c52e8e41bd - - - ] [cas:] begin to migrate and power off instance [redacted]
2019-03-23 13:23:34.883 629 INFO nova.virt.casapi.vmops [req-384a20cc-497a-4b8f-b047-ee34e358085 1df71957d778436493a84f24d9344853 9052ae85792143f1955c35c52e8e41bd - - - ] success to get instance [redacted] info from CVM, info: {hostName: '660-CW-22', hostId: '26', id: '1389'}
2019-03-23 13:23:38.268 629 INFO nova.virt.casapi.event [req-4842847d-ed1a-427d-a15e-a8d3588582cf - - - ] [cas:] begin to emit vm event <LifecycleEvent: 1593318618, 26, [redacted]> -> Stopped
2019-03-23 13:23:38.301 629 INFO nova.compute.origin_manager [req-4842847d-ed1a-427d-a15e-a8d3588582cf - - - ] Instance: [redacted] VM Stopped (Lifecycle Event)
2019-03-23 13:23:38.301 629 INFO nova.virt.casapi.driver [req-4842847d-ed1a-427d-a15e-a8d3588582cf - - - ] [cas:] begin to get the info of instance [redacted]
[redacted]
```

- 下图可以看到报错原因是fail to detach volume，然后就Setting instance vm\_state to ERROR，至此虚拟机状态就异常了。

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2019-03-23 13:23:42.722 629 INFO nova.virt.casapi.driver [req-e71c3f83-c2c4-422a-8254-9ff5642a2653 - - - ] [cas:] begin to get the available resource of node-660-CW-17(CVM192.168.26.21).
2019-03-23 13:23:43.353 629 ERROR nova.virt.casapi.volumes [req-384a20cc-497a-4b8f-b047-ee34e358085 1df71957d778436493a84f24d9344853 9052ae85792143f1955c35c52e8e41bd - - - ] fail to detach volume [redacted]
2019-03-23 13:23:43.353 629 ERROR nova.compute.origin_manager [req-384a20cc-497a-4b8f-b047-ee34e358085 1df71957d778436493a84f24d9344853 9052ae85792143f1955c35c52e8e41bd - - - ] Instance: [redacted] Setting instance vm state to ERROR
2019-03-23 13:23:43.353 629 ERROR nova.compute.origin_manager [instance: [redacted] File "/usr/lib/python2.7/site-packages/nova/compute/origin_manager.py", line 7355, in error_out_instance_on_exception
2019-03-23 13:23:43.353 629 ERROR nova.compute.origin_manager [instance: [redacted] File "/usr/lib/python2.7/site-packages/nova/compute/origin_manager.py", line 4579, in resize_instance
2019-03-23 13:23:43.353 629 ERROR nova.compute.origin_manager [instance: [redacted] File "/usr/lib/python2.7/site-packages/nova/virt/casapi/driver.py", line 616, in migrate_disk_and_power_off
2019-03-23 13:23:43.353 629 ERROR nova.compute.origin_manager [instance: [redacted] File "/usr/lib/python2.7/site-packages/nova/virt/casapi/vmops.py", line 1251, in migrate_disk_and_power_off
2019-03-23 13:23:43.353 629 ERROR nova.compute.origin_manager [instance: [redacted] self._volumeops.detach_volume(connection_info, instance, vmid, mountpoint)
2019-03-23 13:23:43.353 629 ERROR nova.compute.origin_manager [instance: [redacted] File "/usr/lib/python2.7/site-packages/nova/virt/casapi/volumeops.py", line 141, in detach_volume
2019-03-23 13:23:43.353 629 ERROR nova.compute.origin_manager [instance: [redacted] raise cas_error.CasVolumeException()
2019-03-23 13:23:43.353 629 ERROR nova.compute.origin_manager [instance: [redacted] CasVolumeException: CAS volume fault
2019-03-23 13:23:43.353 629 INFO nova.compute.origin_manager [instance: [redacted]
2019-03-23 13:23:43.648 629 INFO nova.virt.casapi.driver [req-e71c3f83-c2c4-422a-8254-9ff5642a2653 - - - ] [cas:] finish to get the available resource of node-660-CW-17(CVM192.168.26.21).
2019-03-23 13:23:43.915 629 INFO nova.virt.casapi.driver [req-384a20cc-497a-4b8f-b047-ee34e358085 1df71957d778436493a84f24d9344853 9052ae85792143f1955c35c52e8e41bd - - - ] [cas:] get available nodes ['660-CW-22(CVM192.168.26.21)', '660-CW-27(CVM192.168.26.21)', '660-CW-17(CVM192.168.26.21)', '660-CW-19(CVM192.168.26.21)', '660-CW-30(CVM192.168.26.21)', '660-CW-26(CVM192.168.26.21)', '660-CW-18(CVM192.168.26.21)', '660-CW-28(CVM192.168.26.21)', '660-CW-24(CVM192.168.26.21)', '660-CW-31(CVM192.168.26.21)']
2019-03-23 13:23:43.926 629 INFO nova.compute.resource_tracker [req-e71c3f83-c2c4-422a-8254-9ff5642a2653 - - - ] Total usable vcpus: 88, total allocated vcpus: 0
```

- 至于为什么删除磁盘失败可以到cas上进行检查了。
- 2、在CVM任务栏中查看到有admin@VMS-RS的下发任务，有时候可以明显看到失败原因；

3、有时候看不到失败原因，直接就是一个报错；我们可以手动在前台检查一下是否有快照，也可以尝试在cas上将磁盘文件删除（谨慎操作）查看是否有相应的报错。

## 解决方法

如果判断是快照导致的删除磁盘失败，我们可以在前台将虚拟机的快照删除后，在cloudos上将异常的虚拟机取消纳管再纳管回来，再次进行调整配置。如果不确认，请联系二线处理。