



CloudOS下发虚拟机异常之CAS host fault

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组网及说明

不涉及

问题描述

CloudOS下发虚拟机后显示异常，且CAS侧操作日志无创建虚拟机任务

过程分析

- 1、首先检查前台计算可用域是否正常、CAS前台密码是否进行了更换，发现都没有问题。
- 2、查看相应计算节点容器内的/var/log/nova/nova-compute.log日志，根据创建时间点和虚拟机UUID可查询具体故障原因打印。

日志中显示CAS主机错误，提示没有足够的空间

```
2021-09-23 12:44:39.034 532 ERROR nova.virt.casapi.imageops [req-c24fbaf9-a0de-4db0-be77-bdb55e467c0a f8f3643a0fc14c09b92c0579b4918d4d c01c9c51b9f34bdaa2ee965606a0e8f4 - default
[default]] image:1073ff90-e844-4d6a-a67e-c5010b032b1d does not exist on the cas, but cas does not have enough space!
2021-09-23 12:44:39.035 532 ERROR nova.compute.origin_manager [req-c24fbaf9-a0de-4db0-be77-bdb55e467c0a f8f3643a0fc14c09b92c0579b4918d4d c01c9c51b9f34bdaa2ee965606a0e8f4 - default
[default]] [instance: 98a30132-ef3f-4f67-a727-66181c51d94a] Instance failed to spawn: CasHostException: CAS host fault.
2021-09-23 12:44:39.035 532 ERROR nova.compute.origin_manager [instance: 98a30132-ef3f-4f67-a727-66181c51d94a] File "/usr/lib/python2.7/site-packages/nova/compute/origin_manag
er.py", line 2836, in build_resources
2021-09-23 12:44:39.035 532 ERROR nova.compute.origin_manager [instance: 98a30132-ef3f-4f67-a727-66181c51d94a] File "/usr/lib/python2.7/site-packages/nova/compute/origin_manag
er.py", line 2651, in build_and_run_instance
2021-09-23 12:44:39.035 532 ERROR nova.compute.origin_manager [instance: 98a30132-ef3f-4f67-a727-66181c51d94a] File "/usr/lib/python2.7/site-packages/nova/virt/casapi/driver.p
y", line 344, in spawn
2021-09-23 12:44:39.035 532 ERROR nova.compute.origin_manager [instance: 98a30132-ef3f-4f67-a727-66181c51d94a] self._vmops.spawn(context, instance, image_meta, injected_files, a
dmin_password, network_info, block_devices, False)
2021-09-23 12:44:39.035 532 ERROR nova.compute.origin_manager [instance: 98a30132-ef3f-4f67-a727-66181c51d94a] File "/usr/lib/python2.7/site-packages/nova/virt/casapi/vmops.py",
line 1164, in spawn
2021-09-23 12:44:39.035 532 ERROR nova.compute.origin_manager [instance: 98a30132-ef3f-4f67-a727-66181c51d94a] raise exc
2021-09-23 12:44:39.035 532 ERROR nova.compute.origin_manager [instance: 98a30132-ef3f-4f67-a727-66181c51d94a] CasHostException: CAS host fault.
2021-09-23 12:44:39.035 532 INFO nova.compute.origin_manager [req-c24fbaf9-a0de-4db0-be77-bdb55e467c0a f8f3643a0fc14c09b92c0579b4918d4d c01c9c51b9f34bdaa2ee965606a0e8f4 - default
[default]] [instance: 98a30132-ef3f-4f67-a727-66181c51d94a] terminating instance
2021-09-23 12:44:39.043 532 INFO nova.virt.casapi.driver [req-c24fbaf9-a0de-4db0-be77-bdb55e467c0a f8f3643a0fc14c09b92c0579b4918d4d c01c9c51b9f34bdaa2ee965606a0e8f4 - default de
fault] [cas:] begin to get volume connector:-----
2021-09-23 12:44:39.053 532 INFO nova.virt.casapi.vmops [req-c24fbaf9-a0de-4db0-be77-bdb55e467c0a f8f3643a0fc14c09b92c0579b4918d4d c01c9c51b9f34bdaa2ee965606a0e8f4 - default defa
ult] instance[uuid=98a30132-ef3f-4f67-a727-66181c51d94a] doesn't exist on the CAS!
2021-09-23 12:44:39.054 532 INFO nova.virt.casapi.host [req-c24fbaf9-a0de-4db0-be77-bdb55e467c0a f8f3643a0fc14c09b92c0579b4918d4d c01c9c51b9f34bdaa2ee965606a0e8f4 - default defa
ult] success to get hostname:wh-zbwy-js-cvm0
```

- 3、CAS空间不足，可能是共享存储卷空间不足，也可能是CVM节点的/vms/nova空间不足。进一步排查发现CAS侧共享存储卷空间充足，而/vms分区使用率已达到95%，剩余空间10G小于下发虚拟机的镜像空间20G，因此导致下发异常。

解决方法

1、清理/vms/nova路径下文件，确保/vms分区空闲空间足够。

/vms/nova路径下文件为CloudOS侧镜像首次下发时创建，方便后续使用同一镜像下发虚拟机，删除该路径下文件不会影响已创建成功的虚拟机。

2、重新下发虚拟机

