cloudos2.0纳管虚拟机失败，提示动态创建镜像发生异常

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组网及说明

cloudos对接cas

问题描述

某局点纳管cas虚拟机失败，操作结果提示动态创建镜像发生异常。如下图：

前台web界面查看操作日志如图：

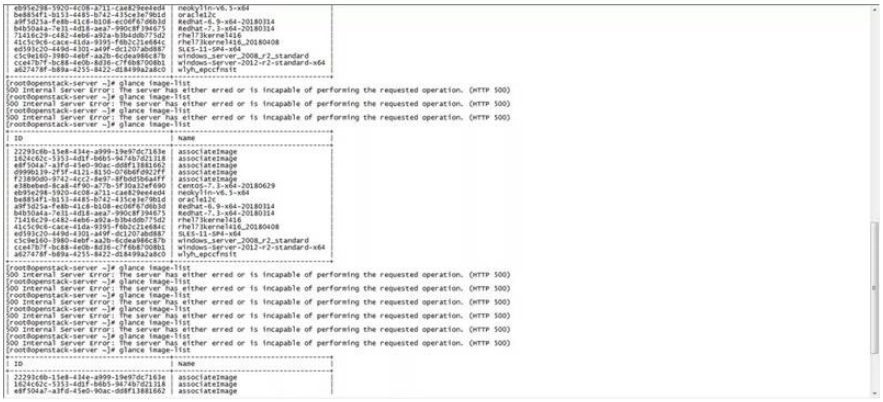
过程分析

登陆到openstack容器中，查看镜像时报错（HTTP 500）

/opt/bin/kubectl -s 127.0.0.1:8888 exec -it openstackrc-XXXXXX bash

执行环境变量脚本：source /root/admin-openrc.sh

使用glance image-list查看镜像列表时报错如图：



通过该现象可以大致判断出访问数据库出现了问题，下面我们可以从日志着手去准确定位问题。

查看/var/log/glance/api.log日志，直接搜索报错时间段相关的错误日志，如下：

```
2018-09-19 16:50:25.163 37982 ERROR glance.common.wsgi   File "/usr/lib64/python2.7/site-packages/sqlalchemy/engine/default.py", line 385, in connect
2018-09-19 16:50:25.163 37982 ERROR glance.common.wsgi     return self.dbapi.connect(*cargs, **cparams)
2018-09-19 16:50:25.163 37982 ERROR glance.common.wsgi   File "/usr/lib64/python2.7/site-packages/psycopg2/__init__.py", line 164, in connect
2018-09-19 16:50:25.163 37982 ERROR glance.common.wsgi    conn = _connect(dsn, connection_factory=connection_factory, async=async)
2018-09-19 16:50:25.163 37982 ERROR glance.common.wsgi OperationalError: (psycopg2.OperationalError) FATAL:  remaining connection slots are reserved for non-replication superuser connections
2018-09-19 16:50:25.163 37982 ERROR glance.common.wsgi
2018-09-19 16:50:25.163 37982 ERROR glance.common.wsgi
```

remaining connection slots are reserved for non-replication superuser connections

该报错表示数据库连接数已满，已经无法连接。

既然已经提示连接数已满，那么我们进入数据库看看到底 有多少连接数，操作如下：

1、/opt/bin/kubectl -s 127.0.0.1:8888 exec -it openstackrc-XXXXXX bash进入postgresql容器中；

2、psql -U postgres -d cloudos_api登录数据库；

3、select count(*) from pg_stat_activity;

查看到

```
[root@cloudosmaster ~]# /opt/bin/kubectl -s 127.0.0.1:8888 exec -it postgresqlrc-tqpgg bash

[root@postgresql-server /]# psql -U postgres -d cloudos_api

psql (9.2.18) Type

"help" for help.

 cloudos_api=# select count(*) from pg_stat_activity;

 count

 -------

 988
```

count连接数有900多，然而cloudos2.0较老的版本配置文件中连接数设置的值为1000.因此连接数不够用，使用glance image-list

查看镜像列表时一会能看到列表一会会报HTTP 500错误。

解决方法

既然知道了问题的根源，那么就好处理了，我们只需修改配置文件中的最大连接数值即可，建议放到2000.

在主节点上vi /var/lib/pgsql/data/ postgresql.conf，找到66行，修改max_cOnnections= 2000即可。如下图：

```
53 #------------------------------------------------------------------------------
54 # CONNECTIONS AND AUTHENTICATION
55 #------------------------------------------------------------------------------
56
57 # - Connection Settings -
58
59 listen_addresses = '*'
60                                      # comma-separated list of addresses;
61                                      # defaults to 'localhost'; use '*' for all
62                                      # (change requires restart)
63 #port = 5432                         # (change requires restart)
64 # Note: In RHEL/Fedora installations, you can't set the port number here;
65 # adjust it in the service file instead.
66 max_connections = 2000                # (change requires restart)
67 # Note:  Increasing max_connections costs ~400 bytes of shared memory per
68 # connection slot, plus lock space (see max_locks_per_transaction).
69 #superuser_reserved_connections = 3   # (change requires restart)
70 #unix_socket_directories = '/var/run/postgresql, /tmp'  # comma-separated list of directories
71                                      # (change requires restart)
72 #unix_socket_group = ''              # (change requires restart)
73 #unix_socket_permissions = 0777      # begin with 0 to use octal notation
74                                      # (change requires restart)
75 #bonjour = off                       # advertise server via Bonjour
76                                      # (change requires restart)
77 #bonjour_name = ''                   # defaults to the computer name
78                                      # (change requires restart)
```