Pool相关操作

```
# 创建Pool
ceph osd pool create <pool name> <pg num>
# 删除Pool
ceph osd pool delete <pool name> <pool name> --yes-i-really-really-mean-it
# 设定Pool的配额
ceph osd pool set-quota <pool name> max_objects 100
ceph osd pool set-quota <pool name> max_bytes $((10 * 1024 * 1024 * 1024))
```

```
# 列出当前所有的POOL
rados lspools
# 列出POOL下的所有Object
rados -p <pool_name> ls
# 存放文件到Pool中
rados -p <pool name> put <object name>  <local_file_path>
#删除pool中的对象
rados -p <pool name> rm <object name>
# 于Pool相关的操作
ceph --help osd pool
```

```
# 生成快照
rados mksnap <snapshot name> -p <pool name>
# 查看快照
rados lssnap -p <pool name>
# 从快照里回滚某个object
rados rollback -p <pool> <object> <snapshot>
```

```
# 获取Pool中的pg_num和pgp_num
ceph osd pool get <pool name> pg_num
ceph osd pool get <pool name> pgp_num
# 设定Pool的pg_num和pgp_num
ceph osd pool set <pool name>pg_num 256
ceph osd pool set <pool name> pgp_num 256
# 指定副本数目
ceph osd pool set <pool name> size <num>
```

Object相关操作

```
# 查看object的映射关系
ceph osd map <pool name> <object name>

```

Image相关操作

```
# 创建块设备
rbd create --size 1024 <pool_name>/<image_name>
# 罗列pool中的所有块设备
rbd ls <pool_name>
# 打印块设备信息
rbd info {pool-name}/{image-name}
# 删除块设备
rbd rm {pool-name}/{image-name}
# 调整设备大小（块设备都是精简配置的）
rbd resize --size 2048 {pool-name}/{image-name}(to increase)
```

```
rbd resize --size 2048 {pool-name}/{image-name} --allow-shrink (to decreas
# 挂载块设备
rbd map {pool-name}/{image-name} --id {user-name}
# 卸载块设备
rbd unmap /dev/rbd/{poolname}/{imagename}
# 获取当前节点的挂载信息
rbd showmapped
# 禁用image的特性
rbd feature disable <pool name>/<image name> exclusive-lock object-map fas
# 启用image的特性
rbd feature enable <pool name>/<image name> exclusive-lock object-map fast

```

```
# 快照
# 创建快照
rbd snap create <pool name>/<image name>@<snap name>
# 查看当前的快照
rbd snap list <pool name>/<image name>
# 设定快照为保护状态
rbd snap protect <pool name>/<image name>@<snap name>
```

```
# 快照解保护
rbd snap unprotect <pool name>/<image name>@<snap name>
```

```
# 从快照克隆镜像
rbd clone <pool name>/<image name>@<snap name> <pool name new>/<image name
# 查看快照的所有依赖
rbd children <pool name>/<image name>@<snap name>
# 对镜像扁平化
rbd flatten <pool name>/<image name>
```

```
# 导出镜像
```

```
rbd export <pool name>/<image name> <file path>
# 导入镜像
rbd import <file path> <pool name>/<image name> --image-format 2
```

用户相关操作

```
# 列出所有的用户
ceph auth list
# 列出单个用户
ceph auth get {TYPE.ID}
# 导出某个用户的keyring
ceph auth export {TYPE.ID}
```

```
# 创建一个典型的用户
ceph auth add client.john mon 'allow r' osd 'allow rw pool=liverpool'
ceph auth get-or-create client.paul mon 'allow r' osd 'allow rw pool=liver
ceph auth get-or-create client.george mon 'allow r' osd 'allow rw pool=liv
ceph auth get-or-create-key client.ringo mon 'allow r' osd 'allow rw pool=
```

```
# 删除用户
ceph auth del {TYPE}.{ID}
# 查看用户密钥
ceph auth print-key {TYPE}.{ID}
# 导入用户
ceph auth import -i /path/to/keyring

```