

```
[stack@localhost ~]$ cinder help delete
usage: cinder delete [--cascade] <volume> [<volume> ...]

Removes one or more volumes.

Positional arguments:
  <volume>      Name or ID of volume or volumes to delete.

Optional arguments:
  --cascade      Remove any snapshots along with volume. Default=False.
```

cinder delete --cascade [<volume>] 可以删除带快照的卷，快照也一并删除（注意：snapshot的状态必须为available或者error，否则一样删除不掉）

cinder_api

cinder.volume.api.API.delete

```
delete(self, context, volume, force=False, unmanage_only=False, cascade=False)
```

1.对于host为空的，回滚配额并且删除db的记录。

2.对于host不为None的记录：

a.状态检查：

```
attach_status : db.Not(fields.VolumeAttachStatus.ATTACHED)
migration_status : self.AVAILABLE_MIGRATION_STATUS
consistencygroup_id : None
group_id : None
status : ('available', 'error', 'error_restoring', 'error_extending',
'error_managing')
```

符合上述状态时，更新数据库状态为deleting；

b. 如果删除时带有cascade参数，那么修改snapshot的状态为deleting

c. 检查ImageVolumeCache???

3. 调用VolumeManager的delete_volume方法

cinder_volume

1. 依次删除快照和volume，删除volume时调用self.driver.delete_volume(volume)