

# 背景

NetApp驱动NetAppBlockStorageLibrary下保存了关于当前连接SVM的所有表信息，在字典lun\_table对象中，该字典的格式为：volume-\*：NetAppLun

```
1      #handle信息格式: vserver:/vol/<volume>/<LUN-name>, 也就是svm+path
2 handle: honghe_io_1_iscsi_1:/vol/vol_09052017_153410_4/volume-ce979ab0-7f7
3 metadata:
4 {
5     'Volume': 'vol_09052017_153410_4',
6     'UUID': 'ec1ae69b-a704-4eac-9ec9-e12dae79e11c',
7     'Qtree': None,
8     'Vserver': 'honghe_io_1_iscsi_1',
9     'SpaceReserved': 'true',
10    'OsType': 'linux',
11    'Path': '/vol/vol_09052017_153410_4/volume-ce979ab0-7f70-48a6-a176
12 }
13 name : volume-ce979ab0-7f70-48a6-a176-87bfc87a18a2
14 size : 2147483648
```

## 一些发现

### 1.可以断定UUID是NetApp生成的

理由：

使用命令：lun show -vserver honghe\_io\_1\_iscsi\_1 -path

/vol/lun\_25042017\_114648\_74\_vol/lun\_25042017\_114648\_74

LUN即使不是OpenStack生成的也有UUID

可以查看LUN的所有信息：

```

NetApp9000::lun> lun show -vserver honghe_io_1_iscsi_1 -path /vol/lun_25042017_114648_74_vol/lun_25042017_114648_74

Vserver Name: honghe_io_1_iscsi_1
LUN Path: /vol/lun_25042017_114648_74_vol/lun_25042017_114648_74
Volume Name: lun_25042017_114648_74_vol
Otree Name: ""
LUN Name: lun_25042017_114648_74
LUN Size: 80.01GB
OS Type: linux
Space Reservation: enabled
Serial Number: 80ANQ$JarGnh
Serial Number (Hex): 3830414e51244a6172476e68
Comment: 3.200宿主测试
Space Reservations Honored: true
Space Allocation: disabled
State: online
LUN UUID: 2c1b6ef2-edec-47b1-8d28-e6726f465b37
Mapped: mapped
Block Size: 512
Device Legacy ID: -
Device Binary ID: -
Device Text ID: -
Read Only: false
Fenced Due to Restore: false
Used Size: 14.45GB
Maximum Resize Size: 832.0GB
Creation Time: 4/24/2017 21:46:04
Class: regular
Node Hosting the LUN: NetApp9000-02
QoS Policy Group: -
Caching Policy Name: -
Clone: false
Clone Autodelete Enabled: false
Inconsistent Import: false

```

## 2.cinder\_volume开机时会主动获取vserver下的所有lun信息

cinder.volume.drivers.netapp.dataontap.block\_cmode.NetAppBlockStorageLibrary.check\_for\_setup\_error方法



```

1 def check_for_setup_error(self):
2     """Check that the driver is working and can communicate.
3
4     Discovers the LUNs on the NetApp server.
5     """
6     if self.lun_ostype not in self.ALLOWED_LUN_OS_TYPES:
7         msg = _("Invalid value for NetApp configuration"
8                 " option netapp_lun_ostype.")
9         LOG.error(msg)
10        raise exception.NetAppDriverException(msg)
11    if self.host_type not in self.ALLOWED_IGROUP_HOST_TYPES:
12        msg = _("Invalid value for NetApp configuration"
13                " option netapp_host_type.")
14        LOG.error(msg)
15        raise exception.NetAppDriverException(msg)
16    lun_list = self.zapi_client.get_lun_list()
17    self._extract_and_populate_luns(lun_list)

```

```
18 LOG.debug("Success getting list of LUNs from server.")
19 self.loopingcalls.start_tasks()
```