# fs - Feature #17230

## ceph_volume_client: py3 compatible

09/07/2016 10:48 AM - Ramana Raja

| | | | | |
|---|---|---|---|---|
| **Status:** | Resolved | | **Start date:** | 07/11/2018 |
| **Priority:** | Normal | | **Due date:** | |
| **Assignee:** | Rishabh Dave | | **% Done:** | 100% |
| **Category:** | | | **Estimated time:** | 0.00 hour |
| **Target version:** | v14.0.0 | | | |
| **Source:** | Development | | **Affected Versions:** | |
| **Tags:** | | | **Component(FS):** | VolumeClient |
| **Backport:** | mimic,luminous | | **Labels (FS):** | Manila |
| **Reviewed:** | | | **Pull request ID:** | |

**Description**

Manila drivers and their CIs are encouraged to be py3 compatible. Manila's cephfs_native driver uses ceph_volume_client library. It would be useful to make the library py3 compatible especially since there's been active work going on in making Ceph py3 compatible [1]. The tests and testing framework of ceph_volume_client are also being made py3 compatible [2][3]. So it might be easy to test the py3 compatibility of the volume client.

[1] http://www.spinics.net/lists/ceph-devel/msg32349.html
[2] https://github.com/ceph/teuthology/pull/931
[3] https://github.com/ceph/ceph-qa-suite/pull/1129

On quick glance, it seems like ceph_volume_client needs to ensure that the buffer or the xattr value it writes or sets respectively using cython cephfs bindings needs to be byte type. There could be other changes needed.

**Subtasks:**

| | |
|---|---|
| Bug # 24870: ceph-debug-docker: python3 libraries not installed in docker image | **Resolved** |

**Related issues:**

| | | |
|---|---|---|
| Related to devops - Bug #24920: teuthology is not installing python3-cephfs/p... | **Resolved** | **07/13/2018** |
| Copied to fs - Backport #26850: mimic: ceph_volume_client: py3 compatible | **Resolved** | |
| Copied to fs - Backport #26851: luminous: ceph_volume_client: py3 compatible | **Resolved** | |

## History

**#1 - 09/08/2016 08:30 AM - Ramana Raja**

*- Assignee deleted (Ramana Raja)*

**#2 - 09/26/2016 09:51 AM - Ramana Raja**

*- Assignee set to Ramana Raja*

**#3 - 09/26/2016 02:54 PM - Ramana Raja**

*- Assignee deleted (Ramana Raja)*

**#4 - 05/02/2018 05:02 PM - Patrick Donnelly**

*- Assignee set to Rishabh Dave*

*- Target version set to v13.0.0*

*- Source changed from other to Development*

*- Labels (FS) task(intern) added*

**#5 - 05/02/2018 05:02 PM - Patrick Donnelly**

*- Status changed from New to In Progress*

**#6 - 05/11/2018 05:52 PM - Rishabh Dave**

*- Status changed from In Progress to Need Review*


https://github.com/ceph/ceph/pull/21948


**#7 - 05/22/2018 10:12 PM - Patrick Donnelly**

*- Priority changed from Normal to Urgent*

*- Target version changed from v13.0.0 to v14.0.0*

*- Backport set to mimic,luminous*


**#14 - 06/18/2018 05:35 PM - Nathan Cutler**

Question for all, and particularly for Patrick: why is a luminous backport of this needed, and is it worth the risk?


**#15 - 06/18/2018 05:45 PM - Patrick Donnelly**

There are high-level pushes to py3 in future (minor-)releases of Ceph/Openstack. RHCS 3.X (Luminous) will need to be py3 compatible.


**#16 - 07/06/2018 10:51 PM - Patrick Donnelly**

Note: I've deleted the backport issues as this hasn't been merged to master yet.


**#17 - 07/14/2018 12:21 AM - Patrick Donnelly**

*- Related to Bug #24920: teuthology is not installing python3-cephfs/python3-rados/etc. (Ubuntu) or python34-cephfs (CentOS) or (what else?) added*


**#18 - 08/02/2018 04:43 AM - Patrick Donnelly**

*- Status changed from Need Review to Pending Backport*


**#19 - 08/03/2018 04:04 PM - Patrick Donnelly**

*- Copied to Backport #26850: mimic: ceph_volume_client: py3 compatible added*


**#20 - 08/03/2018 04:04 PM - Patrick Donnelly**

*- Copied to Backport #26851: luminous: ceph_volume_client: py3 compatible added*


**#21 - 11/03/2018 03:48 AM - Nathan Cutler**

*- Status changed from Pending Backport to Resolved*


**#22 - 03/09/2019 12:30 AM - Patrick Donnelly**

*- Category deleted (87)*

*- Labels (FS) Manila added*

*- Labels (FS) deleted (task(intern))*