fs - Feature #24286

tools: create CephFS shell

05/25/2018 03:07 AM - Patrick Donnelly

Status:	Resolved	**Start date:**	05/25/2018	
Priority:	High	**Due date:**		
Assignee:	Rajula Pavani	**% Done:**	0%	
Category:	Administration/Usability	**Estimated time:**	0.00 hour	
Target version:	v14.0.0			
Source:	Development	**Affected Versions:**		
Tags:		**Component(FS):**	Client, tools	
Backport:		**Labels (FS):**	task(intern)	
Reviewed:		**Pull request ID:**		

Description

The Ceph file system (CephFS) provides for kernel driver and FUSE client access. In testing and trivial system administration, the FUSE interface is commonly used but can be cumbersome. This
project aims to provide a shell and CLI tool interface to CephFS using the existing libcephfs client library and python bindings. The shell should allow for a series of commands (like mkdir) against the file
system. Additionally, if time permits, the project should adapt existing tests to use the new toolset.

To write this feature, the applicant will need to write a user-friendly shell in Python 3 which calls out to the python bindings around libcephfs. The applicant will also need to update the python bindings to include any new functionality in libcephfs and add testing around the python bindings and the new shell.

From: https://www.outreachy.org/communities/cfp/ceph/project/creation-of-a-cephfs-shell-and-cli-tool/

Related issues:

Related to fs - Bug #26852: cephfs-shell: add CMake directives to install the...	**Resolved**	
Related to fs - Feature #26853: cephfs-shell: add batch file processing	**Resolved**	**08/03/2018**
Related to fs - Feature #26855: cephfs-shell: add support to execute commands...	**Resolved**	
Related to fs - Bug #26854: cephfs-shell: add support to set the ceph.conf fi...	**Resolved**	**08/03/2018**
Blocked by fs - Feature #24430: libcephfs: provide API to change umask	**Resolved**	**06/05/2018**

History

#1 - 05/25/2018 03:14 AM - Patrick Donnelly

- Assignee set to Rajula Pavani

#2 - 06/06/2018 02:07 AM - Patrick Donnelly

- Blocked by Feature #24430: libcephfs: provide API to change umask added

#3 - 07/30/2018 01:13 PM - Rajula Pavani

https://github.com/ceph/ceph/pull/23158

#4 - 07/30/2018 01:14 PM - Rajula Pavani

- Status changed from New to Need Review

#5 - 08/03/2018 04:24 PM - Patrick Donnelly

- Category set to Administration/Usability

- Status changed from Need Review to Resolved

#6 - 08/03/2018 04:26 PM - Patrick Donnelly

- Related to Bug #26852: cephfs-shell: add CMake directives to install the shell added

#7 - 08/03/2018 04:29 PM - Patrick Donnelly

- Related to Feature #26853: cephfs-shell: add batch file processing added

#8 - 08/03/2018 04:38 PM - Patrick Donnelly

- Related to Feature #26855: cephfs-shell: add support to execute commands from arguments added

#9 - 08/03/2018 04:38 PM - Patrick Donnelly

- Related to Bug #26854: cephfs-shell: add support to set the ceph.conf file via command line argument added

#10 - 08/03/2018 04:45 PM - Patrick Donnelly

Followup fix: https://github.com/ceph/ceph/pull/23417