

Arvados - Bug #7846

[FUSE] Fuse MagicDirApiError test failure, kernel version specific?

11/23/2015 09:28 PM - Peter Amstutz

Status:	Resolved	Start date:	
Priority:	Normal	Due date:	
Assigned To:	Peter Amstutz	% Done:	100%
Category:	FUSE	Estimated time:	0.00 hour
Target version:	2016-02-03 Sprint		
Description			
ERROR: runTest (tests.test_mount.MagicDirApiError)			

Traceback (most recent call last):			
File "/home/peter/work/arvados/services/fuse/tests/test_mount.py", line 1034, in runTest			
llfuse.listdir(os.path.join(self.mounttmp, self.testcollection))			
File "llfuse/fuse_api.pxi", line 43, in llfuse.capi.listdir (src/llfuse/capi_linux.c:22621)			
OSError: [Errno 2] No such file or directory: '/tmp/tmpSbUVZB/97d180c4f916faf61fb3d64aa2263961+52'			
This error doesn't happen on the Jenkins server.			
My suspicion is that around v4.0 the Linux VFS may have changed the way directory listings are cached, so this test which checks if something exists (OSError on induced API fail) then checks again (API success) is failing the 2nd time because the 2nd request is being served from the Linux VFS cache instead of asking arv-mount again. The tentative solution is to do a VFS cache invalidation on the directory when there is an API error.			

Associated revisions

Revision cabbceab - 01/21/2016 09:49 PM - Peter Amstutz

Merge branch '7846-magic-invalidate-entry' closes #7846

History

#1 - 11/23/2015 09:35 PM - Peter Amstutz

- Description updated

#2 - 12/07/2015 09:46 PM - Tom Clegg

I think this is only a test bug, i.e., it wouldn't cause noticeable trouble in actual usage. It means you need to wait some number of milliseconds for an API server problem to go away, which is fine because you shouldn't need to depend on the exact timing of network/server problems getting fixed.

Possible fix: use mock/patch to set allow_dirent_cache=False for everything during this test case.

#3 - 01/21/2016 06:37 PM - Peter Amstutz

Bugfix in branch 7846-magic-invalidate-entry

#4 - 01/21/2016 08:56 PM - Tom Clegg

- Category set to FUSE

- Assigned To set to Peter Amstutz

- Target version set to 2016-02-03 Sprint

[e399a43](#) LGTM

#5 - 01/21/2016 09:55 PM - Peter Amstutz

- Status changed from New to Resolved

- % Done changed from 0 to 100

Applied in changeset arvados|commit:cabbceab8a2e164f2c4f5afb0e2062dd02fd7790.