

Arvados - Bug #18078

RuntimeError: dictionary changed size during iteration

09/01/2021 01:22 PM - Peter Amstutz

Status:	Resolved	Start date:	09/02/2021
Priority:	Normal	Due date:	
Assigned To:	Peter Amstutz	% Done:	100%
Category:	FUSE	Estimated time:	0.00 hour
Target version:	2021-09-15 sprint		
Description			
2021-09-01T08:49:28.425746193Z 2021-09-01 04:49:28 arvados.arvados_fuse ⁸³¹⁸ ERROR: Unhandled exception during FUSE operation			
2021-09-01T08:49:28.425746193Z Traceback (most recent call last):			
2021-09-01T08:49:28.425746193Z File			
"/usr/share/python2.7/dist/python-arvados-fuse/lib/python2.7/site-packages/arvados_fuse/__init__.py", line 325, in catch_exceptions_wrapper			
2021-09-01T08:49:28.425746193Z return orig_func(self, *args, **kwargs)			
2021-09-01T08:49:28.425746193Z File			
"/usr/share/python2.7/dist/python-arvados-fuse/lib/python2.7/site-packages/arvados_fuse/__init__.py", line 633, in open			
2021-09-01T08:49:28.425746193Z self.inodes.touch(p)			
2021-09-01T08:49:28.425746193Z File			
"/usr/share/python2.7/dist/python-arvados-fuse/lib/python2.7/site-packages/arvados_fuse/__init__.py", line 274, in touch			
2021-09-01T08:49:28.425746193Z self.inode_cache.touch(entry)			
2021-09-01T08:49:28.425746193Z File			
"/usr/share/python2.7/dist/python-arvados-fuse/lib/python2.7/site-packages/arvados_fuse/__init__.py", line 232, in touch			
2021-09-01T08:49:28.425746193Z self.manage(obj)			
2021-09-01T08:49:28.425746193Z File			
"/usr/share/python2.7/dist/python-arvados-fuse/lib/python2.7/site-packages/arvados_fuse/__init__.py", line 226, in manage			
2021-09-01T08:49:28.425746193Z self.cap_cache()			
2021-09-01T08:49:28.425746193Z File			
"/usr/share/python2.7/dist/python-arvados-fuse/lib/python2.7/site-packages/arvados_fuse/__init__.py", line 210, in cap_cache			
2021-09-01T08:49:28.425746193Z self._remove(ent, True)			
2021-09-01T08:49:28.425746193Z File			
"/usr/share/python2.7/dist/python-arvados-fuse/lib/python2.7/site-packages/arvados_fuse/__init__.py", line 176, in _remove			
2021-09-01T08:49:28.425746193Z if obj.has_ref(True):			
2021-09-01T08:49:28.425746193Z File			
"/usr/share/python2.7/dist/python-arvados-fuse/lib/python2.7/site-packages/arvados_fuse/fusedir.py", line 174, in has_ref			
2021-09-01T08:49:28.425746193Z for v in self._entries.itervalues():			
2021-09-01T08:49:28.425746193Z RuntimeError: dictionary changed size during iteration			
2021-09-01T08:49:30.578235405Z crunchstat: keepcalls 0 put 598 get -- interval 10.0000 seconds 0 put 585 get			
Subtasks:			
Task # 18084: Review 18078-reacquire-fuse-lock			Resolved

Associated revisions

Revision 3a1fa403 - 09/07/2021 03:47 PM - Peter Amstutz

Merge branch '18078-reacquire-fuse-lock' into main refs #18078

Arvados-DCO-1.1-Signed-off-by: Peter Amstutz <peter.amstutz@curii.com>

History

#1 - 09/01/2021 01:23 PM - Peter Amstutz

- Category set to FUSE

- Description updated

- Subject changed from FUSE error to RuntimeError: dictionary changed size during iteration

#2 - 09/01/2021 03:32 PM - Peter Amstutz

- Assigned To set to Peter Amstutz

#3 - 09/02/2021 03:25 PM - Peter Amstutz

18078-reacture-fuse-lock @ [025e6f91c13bdeb78585ce2c7a6d70c532eb8d7b](https://ci.arvados.org/view/Developer/job/developer-run-tests/2669/)

Reacquire llfuse lock before populating collection directory

Updates the test for generating "conflict" files.

I don't have a test case for the reported bug, however this is the only place I could find where `_entries` was being modified without the lock held. By reacquiring the lock, it should no longer be possible to read `_entries` at the same time as it is being updated.

Also clean up a few "from future" bits that are no longer needed because we're python 3 only.

<https://ci.arvados.org/view/Developer/job/developer-run-tests/2669/>

#4 - 09/02/2021 03:31 PM - Peter Amstutz

- Status changed from New to In Progress

#5 - 09/02/2021 07:19 PM - Lucas Di Pentima

The code changes LGTM, but the test changes are having some issues.

#6 - 09/02/2021 09:19 PM - Peter Amstutz

Lucas Di Pentima wrote:

The code changes LGTM, but the test changes are having some issues.

Huh, it seems to be failing when I run the whole test suite, but not when I run just one test on its own. I'll have investigate.

#7 - 09/03/2021 01:53 PM - Peter Amstutz

Customer had a really quick turnaround to deploy the branch for testing, and are reporting it is working much better. So we just need to resolve the testing issue.

#8 - 09/03/2021 09:37 PM - Peter Amstutz

18078-reacture-fuse-lock @ [0f815282ed307b5cda9ab77a5343d3dc3c349bb1](https://ci.arvados.org/view/Developer/job/developer-run-tests/2675/)

<https://ci.arvados.org/view/Developer/job/developer-run-tests/2675/>

#9 - 09/07/2021 03:17 PM - Lucas Di Pentima

LGTM, thanks!

#10 - 09/08/2021 01:32 PM - Peter Amstutz

- Status changed from In Progress to Resolved

#11 - 09/20/2021 01:50 PM - Peter Amstutz

- Release set to 43

#12 - 10/22/2021 06:38 PM - Lucas Di Pentima

- Release changed from 43 to 42