

Pulp - Issue #8695

FileSystemExporter cannot cross os boundary

05/04/2021 06:00 PM - bmbouter

Status:	CLOSED - CURRENTRELEASE	Start date:	
Priority:	Normal	Due date:	
Assignee:	daviddavis	Estimated time:	0:00 hour
Category:		Groomed:	No
Sprint/Milestone:	3.15.0	Sprint Candidate:	No
Severity:	2. Medium	Tags:	
Version:		Sprint:	Sprint 102
Platform Release:		Quarter:	
OS:			
Triaged:	Yes		

Description

When I run the test: `pytest -v -r sx --color=yes --pyargs`

`pulpcore.tests.functional.api.using_plugin.test_filesystemexport::FileSystemExportTestCase::test_delete -x` on Fedora33 I receive the error:

```
E pulp_smash.pulp3.bindings.PulpTaskError: (PulpTaskError(...), "Pulp task failed ([Errno 18] Invalid cross-device link: '/var/lib/pulp/media/artifact/de/1e4813fedff7ee0223d63c4aaba1b9b3399cbff0edf059083be7ab1a157f9d' -> '/tmp/10be1fa3-87e1-49f9-8653-27d4df1dfd2c/2.iso')")"
```

The suggestion came up that it should us a symlink not a hardlink. Here is the background IRC convo:

```
2021-05-04 11:33:22 dalley in general though, it's the kind of error you get when you try to
move or link a file between two separate filesystems
2021-05-04 11:33:28 bmbouter I installed last night so I thought I didn't get it yet
2021-05-04 11:33:29 dalley and /tmp is a separate one I believe
2021-05-04 11:33:29 ggainey (this isn't PulpExport, it's another kind-of export, fwiw)
2021-05-04 11:33:48 bmbouter that's actually what I'm going to try to fix (the django b
ased issue)
2021-05-04 11:34:40 bmbouter yeah I have Django==2.2.20
2021-05-04 11:35:55 bmbouter dalley: lgtm, https://github.com/pulp/pulpcore/pull/1302#p
ullrequestreview-651382325
2021-05-04 11:37:08 dalley bmbouter, do I need to say something about the signature of Conten
tAssociation stage changing or should I just add a default
2021-05-04 11:37:49 dalley or, honestly, should we just remove both from the API
2021-05-04 11:37:56 ggainey ok, so, filesystemexporter 'assumes' you can link betwen where the
artifacts are, and where you told it to export to : https://github.com/pulp/pulpcore/blob/master/
pulpcore/app/models/exporter.py#L99-L104
2021-05-04 11:38:05 ggainey bmbouter: ^^
2021-05-04 11:38:27 ggainey I haven't seen the error before tho, fwiw
2021-05-04 11:38:38 bmbouter I think it has to be with me doing this in a vagrant env
2021-05-04 11:39:17 ggainey yeah, could be
2021-05-04 11:39:34 ggainey hrm, which vagrant box are you on? lemme run the test on one of mi
ne
2021-05-04 11:39:51 dalley I've been dealing with similar issues in my side project. trying t
o recursively copy files a directory /tmp to somewhere in /home is sadly much more difficult than
one would hope
2021-05-04 11:41:30 ggainey I have a cat in my ofc snoring so loudly I can hear them thru my h
eadphones :)
2021-05-04 11:42:55 bmbouter ha
2021-05-04 11:42:59 ggainey bmbouter: oh fun - test runs fine on my centos7 vagrant, fails on
my f33 w/your error
2021-05-04 11:43:10 bmbouter I'm on pulp3-source-fedora33
2021-05-04 11:43:39 ggainey yeah same
2021-05-04 11:43:47 bmbouter well that's comforting (no joke)
2021-05-04 11:43:54 ggainey and the 2to3 centos box doesn't have /tmp on its own FS
```

```
2021-05-04 11:44:00      bmbouter      mmm
2021-05-04 11:44:12      bmbouter      so what do you think we should do for resolution for dev e
nvs
2021-05-04 11:44:24      bmbouter      I mean the test isn't wrong par-se
2021-05-04 11:44:36      bmbouter      probably something about the f33 env is wrong...
2021-05-04 11:46:53      <--          quba42 (~qubap42@aftr-82-135-82-151.dynamic.mnet-online.de) has qu
it (Quit: Leaving)
2021-05-04 11:47:42      ggainey bmbouter: hrm - one could make the case that the code should be us
ing os.symlink() instead of creating a hardlink
2021-05-04 11:48:30      ggainey because right now it makes Assumptions about the partitioning of y
our system, that it prob shouldn't
2021-05-04 11:49:17      ggainey having /tmp on its own FS isn't terribly uncommon - and having F33
set up this way, has shown us a potential problem, so yay? :)
```

Related issues:

Blocked by Pulp - Task #8860: Move FileSystemExporter out of plugin API into ...

CLOSED - CURRENTRELEASE

Associated revisions

Revision b50780d9 - 08/09/2021 11:05 PM - daviddavis

Add method field to FileSystemExporter

fixes #8695

History

#1 - 05/04/2021 06:04 PM - daviddavis

In the past, we've discussed adding an option to FileSystemExporter to toggle between symlink/hardlink. Perhaps that's a solution to this problem?

#2 - 05/07/2021 04:44 PM - fao89

- Triaged changed from No to Yes

- Sprint set to Sprint 96

#3 - 05/14/2021 05:34 PM - rchan

- Sprint changed from Sprint 96 to Sprint 97

#4 - 05/24/2021 09:41 PM - daviddavis

- Status changed from NEW to ASSIGNED

- Assignee set to daviddavis

#5 - 06/02/2021 06:03 PM - rchan

- Sprint changed from Sprint 97 to Sprint 98

#6 - 06/02/2021 09:20 PM - pulpbot

- Status changed from ASSIGNED to POST

PR: <https://github.com/pulp/pulpcore/pull/1388>

#7 - 06/03/2021 09:57 PM - daviddavis

- Blocked by Task #8860: Move FileSystemExporter out of plugin API into pulpcore added

#8 - 06/18/2021 11:14 PM - rchan

- Sprint changed from Sprint 98 to Sprint 99

#9 - 07/02/2021 09:23 PM - rchan

- Sprint changed from Sprint 99 to Sprint 100

#10 - 07/15/2021 11:09 PM - rchan

- Sprint changed from Sprint 100 to Sprint 101

#11 - 07/26/2021 10:43 PM - daviddavis

- *Sprint/Milestone set to 3.15.0*

#12 - 08/02/2021 07:44 PM - ipanova@redhat.com

- *Sprint changed from Sprint 101 to Sprint 102*

#13 - 08/09/2021 11:05 PM - daviddavis

- *Status changed from POST to MODIFIED*

Applied in changeset [pulpcore|b50780d93c2b6b070caf478b1a43c1dae8376abf](#).

#14 - 08/26/2021 02:36 PM - pulpbot

- *Status changed from MODIFIED to CLOSED - CURRENTRELEASE*