

## Pulp - Issue #6504

### WorkerDirectory.delete() permission fixing causes infinite recursion

04/15/2020 08:21 PM - ironfroggy

<b>Status:</b>	CLOSED - CURRENTRELEASE	<b>Start date:</b>	
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>		<b>Estimated time:</b>	0:00 hour
<b>Category:</b>		<b>Groomed:</b>	No
<b>Sprint/Milestone:</b>	3.6.0	<b>Sprint Candidate:</b>	No
<b>Severity:</b>	2. Medium	<b>Tags:</b>	
<b>Version:</b>		<b>Sprint:</b>	Sprint 76
<b>Platform Release:</b>		<b>Quarter:</b>	
<b>OS:</b>			
<b>Triaged:</b>	Yes		

#### Description

```
def delete(self):
    """
    Delete the directory.
    On permission denied - an attempt is made to recursively fix the
    permissions on the tree and the delete is retried.
    """
    try:
        shutil.rmtree(self.path)
    except FileNotFoundError:
        pass
    except PermissionError:
        self._set_permissions()
        self.delete() # <--- RIGHT HERE
```

WorkerDirectory.delete() attempts to fix permissions and call itself to retry deletion when it fails due to permissions. If this does not fix the problem, it will cause an infinite recursion, raise a RecursionError, and the job will fail.

```
resource-manager_1 | Traceback (most recent call last):
resource-manager_1 |   File "/venv/bin/rq", line 8, in <module>
resource-manager_1 |     sys.exit(main())
resource-manager_1 |   File "/venv/lib64/python3.6/site-packages/click/core.py", line 829, in
__call__
resource-manager_1 |     return self.main(*args, **kwargs)
resource-manager_1 |   File "/venv/lib64/python3.6/site-packages/click/core.py", line 782, in
main
resource-manager_1 |     rv = self.invoke(ctx)
resource-manager_1 |   File "/venv/lib64/python3.6/site-packages/click/core.py", line 1259, in
invoke
resource-manager_1 |     return _process_result(sub_ctx.command.invoke(sub_ctx))
resource-manager_1 |   File "/venv/lib64/python3.6/site-packages/click/core.py", line 1066, in
invoke
resource-manager_1 |     return ctx.invoke(self.callback, **ctx.params)
resource-manager_1 |   File "/venv/lib64/python3.6/site-packages/click/core.py", line 610, in
invoke
resource-manager_1 |     return callback(*args, **kwargs)
resource-manager_1 |   File "/venv/lib64/python3.6/site-packages/rq/cli/cli.py", line 78, in
wrapper
resource-manager_1 |     return ctx.invoke(func, cli_config, *args[1:], **kwargs)
resource-manager_1 |   File "/venv/lib64/python3.6/site-packages/click/core.py", line 610, in
invoke
resource-manager_1 |     return callback(*args, **kwargs)
resource-manager_1 |   File "/venv/lib64/python3.6/site-packages/rq/cli/cli.py", line 259, in
worker
resource-manager_1 |     max_jobs=max_jobs, with_scheduler=with_scheduler)
```

```
resource-manager_1 | File "/venv/lib64/python3.6/site-packages/rq/worker.py", line 474, in work
resource-manager_1 |     self.register_birth()
resource-manager_1 | File "/venv/lib64/python3.6/site-packages/pulpcore/tasking/worker.py"
, line 158, in register_birth
resource-manager_1 |     working_dir.delete()
resource-manager_1 | File "
/venv/lib64/python3.6/site-packages/pulpcore/tasking/services/storage.py", line 83, in delete
resource-manager_1 |     self.delete()
resource-manager_1 | File "
/venv/lib64/python3.6/site-packages/pulpcore/tasking/services/storage.py", line 83, in delete
resource-manager_1 |     self.delete()
resource-manager_1 | File "
/venv/lib64/python3.6/site-packages/pulpcore/tasking/services/storage.py", line 83, in delete
resource-manager_1 |     self.delete()
resource-manager_1 | [Previous line repeated 972 more times]
resource-manager_1 | File "
/venv/lib64/python3.6/site-packages/pulpcore/tasking/services/storage.py", line 82, in delete
resource-manager_1 |     self._set_permissions()
resource-manager_1 | File "
/venv/lib64/python3.6/site-packages/pulpcore/tasking/services/storage.py", line 89, in
_set_permissions
resource-manager_1 |     for path in os.walk(self.path):
resource-manager_1 | RecursionError: maximum recursion depth exceeded
```

## Associated revisions

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### Revision 39954c1d - 07/09/2020 09:27 PM - gerrod

Fixed WorkerDirectory.delete() causing infinite recursion when permission errors occur

WorkerDirectory.delete() now only tries one additional time to delete its directory tree after encountering a PermissionError

fixes #6504 <https://pulp.plan.io/issues/6504>

### Revision 9047be17 - 07/10/2020 01:32 PM - gerrod

Fixed WorkerDirectory.delete() causing infinite recursion when permission errors occur

WorkerDirectory.delete() now only tries one additional time to delete its directory tree after encountering a PermissionError

fixes #6504 <https://pulp.plan.io/issues/6504>

(cherry picked from commit 39954c1d70c6fb421528976cb5b125d7850b1eac)

## History

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### #1 - 04/17/2020 04:34 PM - fao89

- Triaged changed from No to Yes

- Sprint set to Sprint 70

### #2 - 04/20/2020 02:37 PM - rchan

- Sprint changed from Sprint 70 to Sprint 71

### #3 - 05/01/2020 06:00 PM - rchan

- Sprint changed from Sprint 71 to Sprint 72

### #4 - 05/15/2020 04:16 PM - rchan

- Sprint changed from Sprint 72 to Sprint 73

### #5 - 05/29/2020 02:26 PM - rchan

- Sprint changed from Sprint 73 to Sprint 74

### #6 - 06/11/2020 10:27 PM - rchan

- Sprint changed from Sprint 74 to Sprint 75

### #7 - 06/26/2020 06:04 PM - rchan

- Sprint changed from Sprint 75 to Sprint 76

**#8 - 07/09/2020 08:56 PM - pulpbot**

- Status changed from NEW to POST

PR: <https://github.com/pulp/pulpcore/pull/780>

**#9 - 07/09/2020 10:40 PM - gerrod**

- Status changed from POST to MODIFIED

Applied in changeset [pulpcore|39954c1d70c6fb421528976cb5b125d7850b1eac.](#)

**#10 - 07/10/2020 01:32 PM - gerrod**

Applied in changeset [pulpcore|9047be1740fe398dd67629b374bd7311426f0bf3.](#)

**#11 - 08/13/2020 10:20 PM - dkliban@redhat.com**

- Sprint/Milestone set to 3.6.0

**#12 - 08/13/2020 11:38 PM - pulpbot**

- Status changed from MODIFIED to CLOSED - CURRENTRELEASE