

## Docker Support - Issue #3892

### Can't copy Docker tags or manifest lists between repositories

07/31/2018 10:58 PM - Ichimonji10

|  |                         |                          |           |
|--|-------------------------|--------------------------|-----------|
| <b>Status:</b>   | CLOSED - CURRENTRELEASE | <b>Start date:</b>       |           |
| <b>Priority:</b>   | Normal                  | <b>Due date:</b>         |           |
| <b>Assignee:</b>   | bizhang                 | <b>Estimated time:</b>   | 0:00 hour |
| <b>Category:</b>   |                         |                          |           |
| <b>Sprint/Milestone:</b>   |                         |                          |           |
| <b>Severity:</b>   | 2. Medium               | <b>Groomed:</b>          | No        |
| <b>Version - Docker:</b>   |                         | <b>Sprint Candidate:</b> | No        |
| <b>Platform Release:</b>   | 2.17.0                  | <b>Tags:</b>             | Pulp 2    |
| <b>Target Release - Docker:</b>  |                         | <b>Sprint:</b>           |           |
| <b>OS:</b>   |                         | <b>Quarter:</b>          |           |
| <b>Triaged:</b>  | No                      |                          |           |
| <b>Description</b>   |                         |                          |           |
| <p>It's impossible to copy Docker tags or manifest lists between repositories. Attempting to do triggers an error in Pulp. Here's the relevant journalctl output when attempting to copy manifest lists:</p>   |                         |                          |           |
| <pre>Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ERROR: [30e85096] (1877-39168) Exception from importer [docker_importer] while importing units into repository [14053d5e-0ea9-4b13-9e56-f4c769a0c0a6] Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ERROR: [30e85096] (1877-39168) Traceback (most recent call last): Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ERROR: [30e85096] (1877-39168)   File "/usr/lib/python2.7/site-packages/pulp/server/managers/repo/unit_association.py", line 273, in associate_from_repo Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ERROR: [30e85096] (1877-39168)       units=transfer_units) Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ERROR: [30e85096] (1877-39168)   File "/usr/lib/python2.7/site-packages/pulp_docker/plugins/importers/importer.py", line 217, in import_units Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ERROR: [30e85096] (1877-39168)       units_added  = set(unit_importers[type(unit)](import_conduit, unit, dest_repo.repo_obj)) Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ERROR: [30e85096] (1877-39168)   File "/usr/lib/python2.7/site-packages/pulp_docker/plugins/importers/importer.py", line 369, in _import_manifest_list Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ERROR: [30e85096] (1877-39168)       for manifest in models.Manifest.objects.filter(digest__in=sorted(manifest_digests)): Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ERROR: [30e85096] (1877-39168)   File "/usr/lib/python2.7/site-packages/mongoengine/queryset/base.py", line 1407, in next Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ERROR: [30e85096] (1877-39168)       raw_doc = self._cursor.next() Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ERROR: [30e85096] (1877-39168)   File "/usr/lib64/python2.7/site-packages/pymongo/cursor.py", line 1097, in next Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ERROR: [30e85096] (1877-39168)       if len(self.__data) or self._refresh(): Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ERROR: [30e85096] (1877-39168)   File "/usr/lib64/python2.7/site-packages/pymongo/cursor.py", line 1019, in _refresh Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ERROR: [30e85096] (1877-39168)       self.__read_concern)) Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ERROR: [30e85096] (1877-39168)       self.__read_concern)) Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ERROR: [30e85096] (1877-39168)       self.__read_concern))</pre> |                         |                          |           |

```

ROR: [30e85096] (1877-39168) File "/usr/lib64/python2.7/site-packages/pymongo/cursor.py", line 8
50, in __send_message
Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ER
ROR: [30e85096] (1877-39168) **kwargs)
Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ER
ROR: [30e85096] (1877-39168) File "/usr/lib64/python2.7/site-packages/pymongo/mongo_client.py",
line 794, in _send_message_with_response
Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ER
ROR: [30e85096] (1877-39168) exhaust)
Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ER
ROR: [30e85096] (1877-39168) File "/usr/lib64/python2.7/site-packages/pymongo/mongo_client.py",
line 805, in _reset_on_error
Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ER
ROR: [30e85096] (1877-39168) return func(*args, **kwargs)
Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ER
ROR: [30e85096] (1877-39168) File "/usr/lib64/python2.7/site-packages/pymongo/server.py", line 1
08, in send_message_with_response
Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ER
ROR: [30e85096] (1877-39168) set_slave_okay, sock_info.is_mongos, use_find_cmd)
Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ER
ROR: [30e85096] (1877-39168) File "/usr/lib64/python2.7/site-packages/pymongo/message.py", line
275, in get_message
Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ER
ROR: [30e85096] (1877-39168) spec, self.fields, self.codec_options)
Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ER
ROR: [30e85096] (1877-39168) InvalidDocument: Cannot encode object: <EmbeddedManifest: EmbeddedMan
ifest object>
Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.async.tasks:INFO: [30e85096] Task
failed : [30e85096-c215-4b4e-99e6-682dcbede8b1]
Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: celery.app.trace:ERROR: [30e85096] (1877-3916
8) Task pulp.server.managers.repo.unit_association.associate_from_repo[30e85096-c215-4b4e-99e6-682
dcbede8b1] raised unexpected: InvalidDocument('Cannot encode object: <EmbeddedManifest: EmbeddedMa
nifest object>',)
Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: celery.app.trace:ERROR: [30e85096] (1877-3916
8) Traceback (most recent call last):
Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: celery.app.trace:ERROR: [30e85096] (1877-3916
8) File "/usr/lib/python2.7/site-packages/celery/app/trace.py", line 367, in trace_task
Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: celery.app.trace:ERROR: [30e85096] (1877-3916
8) R = retval = fun(*args, **kwargs)
Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: celery.app.trace:ERROR: [30e85096] (1877-3916
8) File "/usr/lib/python2.7/site-packages/pulp/server/async/tasks.py", line 529, in __call__
Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: celery.app.trace:ERROR: [30e85096] (1877-3916
8) return super(Task, self).__call__(*args, **kwargs)
Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: celery.app.trace:ERROR: [30e85096] (1877-3916
8) File "/usr/lib/python2.7/site-packages/pulp/server/async/tasks.py", line 107, in __call__
Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: celery.app.trace:ERROR: [30e85096] (1877-3916
8) return super(PulpTask, self).__call__(*args, **kwargs)
Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: celery.app.trace:ERROR: [30e85096] (1877-3916
8) File "/usr/lib/python2.7/site-packages/celery/app/trace.py", line 622, in __protected_call__
Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: celery.app.trace:ERROR: [30e85096] (1877-3916
8) return self.run(*args, **kwargs)
Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: celery.app.trace:ERROR: [30e85096] (1877-3916
8) File "/usr/lib/python2.7/site-packages/pulp/server/managers/repo/unit_association.py", line 2
91, in associate_from_repo
Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: celery.app.trace:ERROR: [30e85096] (1877-3916
8) raise (e, None, sys.exc_info()[2])
Jul 31 16:09:17 rhel-7-pulp-2-17-nightly pulp[1877]: celery.app.trace:ERROR: [30e85096] (1877-3916
8) InvalidDocument: Cannot encode object: <EmbeddedManifest: EmbeddedManifest object>

```

...and here's the error when attempting to copy tags between repositories:

```

Jul 31 17:02:35 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ER
ROR: [7c6d1641] (1877-39168) Exception from importer [docker_importer] while importing units into
repository [94d08260-7dc9-4bf0-9b9a-d23ed19
3c2c3]
Jul 31 17:02:35 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ER
ROR: [7c6d1641] (1877-39168) Traceback (most recent call last):

```

```
Jul 31 17:02:35 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ER
ROR: [7c6d1641] (1877-39168) File "/usr/lib/python2.7/site-packages/pulp/server/managers/repo/un
it_association.py", line 273, in associate_from_repo
Jul 31 17:02:35 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ER
ROR: [7c6d1641] (1877-39168) units=transfer_units)
Jul 31 17:02:35 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ER
ROR: [7c6d1641] (1877-39168) File "/usr/lib/python2.7/site-packages/pulp_docker/plugins/importer
s/importer.py", line 217, in import_units
Jul 31 17:02:35 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ER
ROR: [7c6d1641] (1877-39168) units_added |= set(unit_importers[type(unit)](import_conduit, uni
t, dest_repo.repo_obj))
Jul 31 17:02:35 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ER
ROR: [7c6d1641] (1877-39168) File "/usr/lib/python2.7/site-packages/pulp_docker/plugins/importer
s/importer.py", line 299, in _import_tag
Jul 31 17:02:35 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ER
ROR: [7c6d1641] (1877-39168) conduit, manifest, dest_repo))
Jul 31 17:02:35 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ER
ROR: [7c6d1641] (1877-39168) File "/usr/lib/python2.7/site-packages/pulp_docker/plugins/importer
s/importer.py", line 369, in _import_manifest_list
Jul 31 17:02:35 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ER
ROR: [7c6d1641] (1877-39168) for manifest in models.Manifest.objects.filter(digest__in=sorted(
manifest_digests)):
Jul 31 17:02:35 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ER
ROR: [7c6d1641] (1877-39168) File "/usr/lib/python2.7/site-packages/mongoengine/queryset/base.py
", line 1407, in next
Jul 31 17:02:35 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ER
ROR: [7c6d1641] (1877-39168) raw_doc = self._cursor.next()
Jul 31 17:02:35 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ER
ROR: [7c6d1641] (1877-39168) File "/usr/lib64/python2.7/site-packages/pymongo/cursor.py", line 1
097, in next
Jul 31 17:02:35 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ER
ROR: [7c6d1641] (1877-39168) if len(self.__data) or self._refresh():
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ROR: [7c6d1641] (1877-39168) File "/usr/lib64/python2.7/site-packages/pymongo/cursor.py", line 1
019, in _refresh
Jul 31 17:02:35 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ER
ROR: [7c6d1641] (1877-39168) self.__read_concern))
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ROR: [7c6d1641] (1877-39168) File "/usr/lib64/python2.7/site-packages/pymongo/mongo_client.py",
line 794, in _send_message_with_response
Jul 31 17:02:35 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ER
ROR: [7c6d1641] (1877-39168) exhaust)
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ROR: [7c6d1641] (1877-39168) File "/usr/lib64/python2.7/site-packages/pymongo/mongo_client.py",
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Jul 31 17:02:35 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ER
ROR: [7c6d1641] (1877-39168) File "/usr/lib64/python2.7/site-packages/pymongo/server.py", line 1
08, in send_message_with_response
Jul 31 17:02:35 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ER
ROR: [7c6d1641] (1877-39168) set_slave_okay, sock_info.is_mongos, use_find_cmd)
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ROR: [7c6d1641] (1877-39168) File "/usr/lib64/python2.7/site-packages/pymongo/message.py", line
275, in get_message
Jul 31 17:02:35 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ER
ROR: [7c6d1641] (1877-39168) spec, self.fields, self.codec_options)
Jul 31 17:02:35 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.managers.repo.unit_association:ER
ROR: [7c6d1641] (1877-39168) InvalidDocument: Cannot encode object: <EmbeddedManifest: EmbeddedMan
ifest object>
Jul 31 17:02:35 rhel-7-pulp-2-17-nightly pulp[1877]: pulp.server.async.tasks:INFO: [7c6d1641] Task
failed : [7c6d1641-66f4-4408-8a70-6a7d3d2b36ec]
```

```

Jul 31 17:02:35 rhel-7-pulp-2-17-nightly pulp[1877]: celery.app.trace:ERROR: [7c6d1641] (1877-3916
8) Task pulp.server.managers.repo.unit_association.associate_from_repo[7c6d1641-66f4-4408-8a70-6a7
d3d2b36ec] raised unexpected: InvalidDocument('Cannot encode object: <EmbeddedManifest: EmbeddedMa
nifest object>',)
Jul 31 17:02:35 rhel-7-pulp-2-17-nightly pulp[1877]: celery.app.trace:ERROR: [7c6d1641] (1877-3916
8) Traceback (most recent call last):
Jul 31 17:02:35 rhel-7-pulp-2-17-nightly pulp[1877]: celery.app.trace:ERROR: [7c6d1641] (1877-3916
8) File "/usr/lib/python2.7/site-packages/celery/app/trace.py", line 367, in trace_task
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8) R = retval = fun(*args, **kwargs)
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8) File "/usr/lib/python2.7/site-packages/pulp/server/async/tasks.py", line 529, in __call__
Jul 31 17:02:35 rhel-7-pulp-2-17-nightly pulp[1877]: celery.app.trace:ERROR: [7c6d1641] (1877-3916
8) return super(Task, self).__call__(*args, **kwargs)
Jul 31 17:02:35 rhel-7-pulp-2-17-nightly pulp[1877]: celery.app.trace:ERROR: [7c6d1641] (1877-3916
8) File "/usr/lib/python2.7/site-packages/pulp/server/async/tasks.py", line 107, in __call__
Jul 31 17:02:35 rhel-7-pulp-2-17-nightly pulp[1877]: celery.app.trace:ERROR: [7c6d1641] (1877-3916
8) return super(PulpTask, self).__call__(*args, **kwargs)
Jul 31 17:02:35 rhel-7-pulp-2-17-nightly pulp[1877]: celery.app.trace:ERROR: [7c6d1641] (1877-3916
8) File "/usr/lib/python2.7/site-packages/celery/app/trace.py", line 622, in __protected_call__
Jul 31 17:02:35 rhel-7-pulp-2-17-nightly pulp[1877]: celery.app.trace:ERROR: [7c6d1641] (1877-3916
8) return self.run(*args, **kwargs)
Jul 31 17:02:35 rhel-7-pulp-2-17-nightly pulp[1877]: celery.app.trace:ERROR: [7c6d1641] (1877-3916
8) File "/usr/lib/python2.7/site-packages/pulp/server/managers/repo/unit_association.py", line 2
91, in associate_from_repo
Jul 31 17:02:35 rhel-7-pulp-2-17-nightly pulp[1877]: celery.app.trace:ERROR: [7c6d1641] (1877-3916
8) raise (e, None, sys.exc_info()[2])
Jul 31 17:02:35 rhel-7-pulp-2-17-nightly pulp[1877]: celery.app.trace:ERROR: [7c6d1641] (1877-3916
8) InvalidDocument: Cannot encode object: <EmbeddedManifest: EmbeddedManifest object>

```

The error looks nearly identical. This error occurs with the nightly build of Pulp 2 (to-be 2.17) on both RHEL 7 and Fedora 27. Here's some sample RPMs:

```

[root@rhel-7-pulp-2-17-nightly ~]# rpm -qa | grep pulp | sort
pulp-admin-client-2.17.0-0.1.alpha.201807310510git0697ade.el7.noarch
pulp-deb-admin-extensions-1.8.0-0.1.alpha.201807310516git4df9825.el7.noarch
pulp-deb-plugins-1.8.0-0.1.alpha.201807310516git4df9825.el7.noarch
pulp-docker-admin-extensions-3.2.0-0.1.alpha.201807310503git4356228.el7.noarch
pulp-docker-plugins-3.2.0-0.1.alpha.201807310503git4356228.el7.noarch
pulp-ostree-admin-extensions-1.4.0-0.1.alpha.201807310504git2c2d534.el7.noarch
pulp-ostree-plugins-1.4.0-0.1.alpha.201807310504git2c2d534.el7.noarch
pulp-puppet-admin-extensions-2.17.0-0.1.alpha.201807310506git44a02f8.el7.noarch
pulp-puppet-plugins-2.17.0-0.1.alpha.201807310506git44a02f8.el7.noarch
pulp-puppet-tools-2.17.0-0.1.alpha.201807310506git44a02f8.el7.noarch
pulp-python-admin-extensions-2.1.0-0.1.alpha.201807310501git5e2aa35.el7.noarch
pulp-python-plugins-2.1.0-0.1.alpha.201807310501git5e2aa35.el7.noarch
pulp-rpm-admin-extensions-2.17.0-0.1.alpha.201807310508giteaff2ca.el7.noarch
pulp-rpm-plugins-2.17.0-0.1.alpha.201807310508giteaff2ca.el7.noarch
pulp-selinux-2.17.0-0.1.alpha.201807310510git0697ade.el7.noarch
pulp-server-2.17.0-0.1.alpha.201807310510git0697ade.el7.noarch
python-isodate-0.5.0-4.pulp.el7.noarch
python-pulp-bindings-2.17.0-0.1.alpha.201807310510git0697ade.el7.noarch
python-pulp-client-lib-2.17.0-0.1.alpha.201807310510git0697ade.el7.noarch
python-pulp-common-2.17.0-0.1.alpha.201807310510git0697ade.el7.noarch
python-pulp-deb-common-1.8.0-0.1.alpha.201807310516git4df9825.el7.noarch
python-pulp-docker-common-3.2.0-0.1.alpha.201807310503git4356228.el7.noarch
python-pulp-oid_validation-2.17.0-0.1.alpha.201807310510git0697ade.el7.noarch
python-pulp-ostree-common-1.4.0-0.1.alpha.201807310504git2c2d534.el7.noarch
python-pulp-puppet-common-2.17.0-0.1.alpha.201807310506git44a02f8.el7.noarch
python-pulp-python-common-2.1.0-0.1.alpha.201807310501git5e2aa35.el7.noarch
python-pulp-repoauth-2.17.0-0.1.alpha.201807310510git0697ade.el7.noarch
python-pulp-rpm-common-2.17.0-0.1.alpha.201807310508giteaff2ca.el7.noarch
python-pulp-streamer-2.17.0-0.1.alpha.201807310510git0697ade.el7.noarch

```

The easiest way to reproduce this issue is to run the automated test in Pulp 2 Tests: `python -m unittest pulp_2_tests.tests.docker.api_v2.test_copy.CopyV2ContentTestCase`. The error occurs when this line of code is executing, inside `test_02_copy_manifest_lists`:

```
client.post(urljoin(repo['_href'], 'actions/associate/'), {
    'criteria': {'filters': {}, 'type_ids': ['docker_manifest_list']},
    'source_repo_id': self.repo['id'],
})
```

It also occurs when this line of code is executing, inside test\_02\_copy\_tags:

```
client.post(urljoin(repo['_href'], 'actions/associate/'), {
    'source_repo_id': self.repo['id'],
    'criteria': {'filters': {}, 'type_ids': ['docker_tag']},
})
```

Also see:

- [http://pulp-2-tests.readthedocs.io/en/latest/tests/pulp\\_2\\_tests.tests.docker.api.v2.test\\_copy.html#pulp\\_2\\_tests.tests.docker.api.v2.test\\_copy.CopyV2ContentTestCase](http://pulp-2-tests.readthedocs.io/en/latest/tests/pulp_2_tests.tests.docker.api.v2.test_copy.html#pulp_2_tests.tests.docker.api.v2.test_copy.CopyV2ContentTestCase)
- [https://github.com/PulpQE/Pulp-2-Tests/blob/master/pulp\\_2\\_tests/tests/docker/api\\_v2/test\\_copy.py](https://github.com/PulpQE/Pulp-2-Tests/blob/master/pulp_2_tests/tests/docker/api_v2/test_copy.py)

#### Related issues:

Copied to Docker Support - Issue #3904: Can't upload manifest list to Docker ...

**CLOSED - CURRENTRELEASE**

#### Associated revisions

##### Revision baef3ae - 08/01/2018 04:49 AM - werwty

Fix issue with associating embedded manifests in manifest list

<https://pulp.plan.io/issues/3892>

re #3137 closes #3892

##### Revision baef3ae - 08/01/2018 04:49 AM - werwty

Fix issue with associating embedded manifests in manifest list

<https://pulp.plan.io/issues/3892>

re #3137 closes #3892

#### History

##### #1 - 07/31/2018 10:59 PM - Ichimonji10

This issue is a regression.

##### #2 - 07/31/2018 11:04 PM - Ichimonji10

- Subject changed from *Can't copy Docker manifest lists between repositories* to *Can't copy Docker tags or manifest lists between repositories*
- Description updated

##### #3 - 08/01/2018 04:53 AM - bizhang

- Status changed from *NEW* to *POST*
- Assignee set to *bizhang*

PR: [https://github.com/pulp/pulp\\_docker/pull/253](https://github.com/pulp/pulp_docker/pull/253)

##### #4 - 08/01/2018 02:09 PM - werwty

- Status changed from *POST* to *MODIFIED*

Applied in changeset [pulp\\_docker:baef3ae9d6473cdfb2e2dc6466edb0a178a0118](https://pulp.plan.io/changeset/pulp_docker:baef3ae9d6473cdfb2e2dc6466edb0a178a0118).

##### #5 - 08/01/2018 03:04 PM - ipanova@redhat.com

- Sprint/Milestone set to *2.17.0*

##### #6 - 08/02/2018 08:03 PM - Ichimonji10

- Status changed from *MODIFIED* to *ASSIGNED*

This issue still manifests itself with the latest nightly builds of 2 master (to-be 2.17) on both F27 and RHEL 7. To reproduce the issue, run the same automate tests as before with `python -m unittest --verbose pulp_2_tests.tests.docker.api_v2.test_copy.CopyV2ContentTestCase`. Here's a snippet from journalctl:

```
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: pulp.server.managers.repo.unit_association:ERROR: [b39c1fdd] (1846-64480) Exception from importer [docker-importer] while importing units into repository [159a49d7-505c-454b-8483-2061831c97a5]
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: pulp.server.managers.repo.unit_association:ERROR: [b39c1fdd] (1846-64480) Traceback (most recent call last):
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: pulp.server.managers.repo.unit_association:ERROR: [b39c1fdd] (1846-64480)   File "/usr/lib/python2.7/site-packages/pulp/server/managers/repo/unit_association.py", line 273, in associate_from_repo
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: pulp.server.managers.repo.unit_association:ERROR: [b39c1fdd] (1846-64480)     units=transfer_units)
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: pulp.server.managers.repo.unit_association:ERROR: [b39c1fdd] (1846-64480)   File "/usr/lib/python2.7/site-packages/pulp_docker/plugins/importers/importer.py", line 217, in import_units
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: pulp.server.managers.repo.unit_association:ERROR: [b39c1fdd] (1846-64480)     units_added |= set(unit_importers[type(unit)](import_conduit, unit, dest_repo.repo_obj))
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: pulp.server.managers.repo.unit_association:ERROR: [b39c1fdd] (1846-64480)   File "/usr/lib/python2.7/site-packages/pulp_docker/plugins/importers/importer.py", line 299, in _import_tag
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: pulp.server.managers.repo.unit_association:ERROR: [b39c1fdd] (1846-64480)     conduit, manifest, dest_repo))
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: pulp.server.managers.repo.unit_association:ERROR: [b39c1fdd] (1846-64480)   File "/usr/lib/python2.7/site-packages/pulp_docker/plugins/importers/importer.py", line 369, in _import_manifest_list
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: pulp.server.managers.repo.unit_association:ERROR: [b39c1fdd] (1846-64480)     for manifest in models.Manifest.objects.filter(digest__in=sorted(manifest_digests)):
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: pulp.server.managers.repo.unit_association:ERROR: [b39c1fdd] (1846-64480)   File "/usr/lib/python2.7/site-packages/mongoengine/queryset/base.py", line 1407, in next
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: pulp.server.managers.repo.unit_association:ERROR: [b39c1fdd] (1846-64480)     raw_doc = self._cursor.next()
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: pulp.server.managers.repo.unit_association:ERROR: [b39c1fdd] (1846-64480)   File "/usr/lib64/python2.7/site-packages/pymongo/cursor.py", line 1097, in next
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: pulp.server.managers.repo.unit_association:ERROR: [b39c1fdd] (1846-64480)     if len(self.__data) or self._refresh():
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: pulp.server.managers.repo.unit_association:ERROR: [b39c1fdd] (1846-64480)   File "/usr/lib64/python2.7/site-packages/pymongo/cursor.py", line 1019, in _refresh
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: pulp.server.managers.repo.unit_association:ERROR: [b39c1fdd] (1846-64480)     self.__read_concern))
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: pulp.server.managers.repo.unit_association:ERROR: [b39c1fdd] (1846-64480)   File "/usr/lib64/python2.7/site-packages/pymongo/cursor.py", line 850, in __send_message
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: pulp.server.managers.repo.unit_association:ERROR: [b39c1fdd] (1846-64480)     **kwargs)
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: pulp.server.managers.repo.unit_association:ERROR: [b39c1fdd] (1846-64480)   File "/usr/lib64/python2.7/site-packages/pymongo/mongo_client.py", line 794, in _send_message_with_response
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: pulp.server.managers.repo.unit_association:ERROR: [b39c1fdd] (1846-64480)     exhaust)
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: pulp.server.managers.repo.unit_association:ERROR: [b39c1fdd] (1846-64480)   File "/usr/lib64/python2.7/site-packages/pymongo/mongo_client.py", line 805, in _reset_on_error
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: pulp.server.managers.repo.unit_association:ERROR: [b39c1fdd] (1846-64480)     return func(*args, **kwargs)
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: pulp.server.managers.repo.unit_association:ERROR: [b39c1fdd] (1846-64480)   File "/usr/lib64/python2.7/site-packages/pymongo/server.py", line 108, in send_message_with_response
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: pulp.server.managers.repo.unit_association:ERROR: [b39c1fdd] (1846-64480)     set_slave_okay, sock_info.is_mongos, use_find_cmd)
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: pulp.server.managers.repo.unit_association:ERROR: [b39c1fdd] (1846-64480)   File "/usr/lib64/python2.7/site-packages/pymongo/message.py", line 275, in get_message
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: pulp.server.managers.repo.unit_association:ERROR: [b39c1fdd] (1846-64480)     spec, self.fields, self.codec_options)
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: pulp.server.managers.repo.unit_association:ERROR: [b39c1fdd] (1846-64480) InvalidDocument: Cannot encode object: <EmbeddedManifest: EmbeddedManifest object>
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: pulp.server.async.tasks:INFO: [b39c1fdd] Task failed : [b39c1fdd-4680-40c4-8150-c134937df5fb]
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: celery.app.trace:ERROR: [b39c1fdd] (1846-64480) Task pulp.server.managers.repo.unit_association.associate_from_repo[b39c1fdd-4680-40c4-8150-c134937df5fb] raised unexpected: InvalidDocument('Cannot encode object: <EmbeddedManifest: EmbeddedManifest object>')
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: celery.app.trace:ERROR: [b39c1fdd] (1846-64480) Traceback (most recent call last):
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: celery.app.trace:ERROR: [b39c1fdd] (1846-64480)   File "/usr/lib/python2.7/site-packages/celery/app/trace.py", line 367, in trace_task
```

```

Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: celery.app.trace:ERROR: [b39c1fdd] (1846-64480) R = r
etval = fun(*args, **kwargs)
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: celery.app.trace:ERROR: [b39c1fdd] (1846-64480) File "/
usr/lib/python2.7/site-packages/pulp/server/async/tasks.py", line 529, in __call__
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: celery.app.trace:ERROR: [b39c1fdd] (1846-64480) retur
n super(Task, self).__call__(*args, **kwargs)
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: celery.app.trace:ERROR: [b39c1fdd] (1846-64480) File "/
usr/lib/python2.7/site-packages/pulp/server/async/tasks.py", line 107, in __call__
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: celery.app.trace:ERROR: [b39c1fdd] (1846-64480) retur
n super(PulpTask, self).__call__(*args, **kwargs)
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: celery.app.trace:ERROR: [b39c1fdd] (1846-64480) File "/
usr/lib/python2.7/site-packages/celery/app/trace.py", line 622, in __protected_call__
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: celery.app.trace:ERROR: [b39c1fdd] (1846-64480) retur
n self.run(*args, **kwargs)
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: celery.app.trace:ERROR: [b39c1fdd] (1846-64480) File "/
usr/lib/python2.7/site-packages/pulp/server/managers/repo/unit_association.py", line 291, in associate_from_re
po
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: celery.app.trace:ERROR: [b39c1fdd] (1846-64480) raise
(e, None, sys.exc_info()[2])
Aug 02 14:00:21 rhel-7-pulp-2-17-nightly pulp[1846]: celery.app.trace:ERROR: [b39c1fdd] (1846-64480) InvalidDo
cument: Cannot encode object: <EmbeddedManifest: EmbeddedManifest object>

```

Here's the RPMs on a sample test VM:

```

[root@rhel-7-pulp-2-17-nightly ~]# rpm -qa | grep -i 'solv\|pulp' | sort
libsolv-0.6.34-4.el7.x86_64
pulp-admin-client-2.17.0-0.1.alpha.201808010512git0697ade.el7.noarch
pulp-deb-admin-extensions-1.8.0-0.1.alpha.201808010517git4df9825.el7.noarch
pulp-deb-plugins-1.8.0-0.1.alpha.201808010517git4df9825.el7.noarch
pulp-docker-admin-extensions-3.2.0-0.1.alpha.201808010504git4356228.el7.noarch
pulp-docker-plugins-3.2.0-0.1.alpha.201808010504git4356228.el7.noarch
pulp-ostree-admin-extensions-1.4.0-0.1.alpha.201808010506git2c2d534.el7.noarch
pulp-ostree-plugins-1.4.0-0.1.alpha.201808010506git2c2d534.el7.noarch
pulp-puppet-admin-extensions-2.17.0-0.1.alpha.201808010507git44a02f8.el7.noarch
pulp-puppet-plugins-2.17.0-0.1.alpha.201808010507git44a02f8.el7.noarch
pulp-puppet-tools-2.17.0-0.1.alpha.201808010507git44a02f8.el7.noarch
pulp-python-admin-extensions-2.1.0-0.1.alpha.201808010503git5e2aa35.el7.noarch
pulp-python-plugins-2.1.0-0.1.alpha.201808010503git5e2aa35.el7.noarch
pulp-rpm-admin-extensions-2.17.0-0.1.alpha.201808010509git421caf4.el7.noarch
pulp-rpm-plugins-2.17.0-0.1.alpha.201808010509git421caf4.el7.noarch
pulp-selinux-2.17.0-0.1.alpha.201808010512git0697ade.el7.noarch
pulp-server-2.17.0-0.1.alpha.201808010512git0697ade.el7.noarch
python2-solv-0.6.34-4.el7.x86_64
python-isodate-0.5.0-4.pulp.el7.noarch
python-pulp-bindings-2.17.0-0.1.alpha.201808010512git0697ade.el7.noarch
python-pulp-client-lib-2.17.0-0.1.alpha.201808010512git0697ade.el7.noarch
python-pulp-common-2.17.0-0.1.alpha.201808010512git0697ade.el7.noarch
python-pulp-deb-common-1.8.0-0.1.alpha.201808010517git4df9825.el7.noarch
python-pulp-docker-common-3.2.0-0.1.alpha.201808010504git4356228.el7.noarch
python-pulp-oid_validation-2.17.0-0.1.alpha.201808010512git0697ade.el7.noarch
python-pulp-ostree-common-1.4.0-0.1.alpha.201808010506git2c2d534.el7.noarch
python-pulp-puppet-common-2.17.0-0.1.alpha.201808010507git44a02f8.el7.noarch
python-pulp-python-common-2.1.0-0.1.alpha.201808010503git5e2aa35.el7.noarch
python-pulp-repoauth-2.17.0-0.1.alpha.201808010512git0697ade.el7.noarch
python-pulp-rpm-common-2.17.0-0.1.alpha.201808010509git421caf4.el7.noarch
python-pulp-streamer-2.17.0-0.1.alpha.201808010512git0697ade.el7.noarch

```

#### #7 - 08/02/2018 11:25 PM - bizhang

- Status changed from ASSIGNED to MODIFIED

looks like the nightly packages haven't pulled in the latest commit (hash is 4356228 instead of fd8d4e7)

the nightlies didn't build this morning, so the change never made it into the latest rpm

[https://repos.fedorapeople.org/repos/pulp/pulp/testing/automation/2.17/stage/fedora-27/x86\\_64/](https://repos.fedorapeople.org/repos/pulp/pulp/testing/automation/2.17/stage/fedora-27/x86_64/)

`python -m unittest --verbose pulp\_2\_tests.tests.docker.api\_v2.test\_copy.CopyV2ContentTestCase` with pulp\_docker 2-master branch succeeds without an error

#### #8 - 08/06/2018 10:58 PM - Ichimonji10

- Copied to Issue #3904: Can't upload manifest list to Docker repository added

#### #9 - 08/07/2018 06:21 PM - ipanova@redhat.com

- Platform Release set to 2.17.0

**#10 - 08/07/2018 06:31 PM - ipanova@redhat.com**

- Platform Release changed from 2.17.0 to master

**#11 - 08/07/2018 06:32 PM - ipanova@redhat.com**

- Platform Release deleted (master)

**#12 - 08/07/2018 06:37 PM - ipanova@redhat.com**

- Platform Release set to 2.17.0

**#13 - 08/07/2018 06:37 PM - ipanova@redhat.com**

- Project changed from Crane to Docker Support

**#14 - 08/14/2018 11:17 PM - ipanova@redhat.com**

- Status changed from MODIFIED to 5

**#15 - 08/31/2018 10:43 PM - ipanova@redhat.com**

- Status changed from 5 to CLOSED - CURRENTRELEASE

**#16 - 04/15/2019 10:09 PM - bmbouter**

- Tags Pulp 2 added

**#17 - 01/11/2022 06:18 PM - ttereshc**

- Sprint/Milestone deleted (2.17.0)