

Pulp - Issue #3687

Pulp 2 doesn't work on Fedora 27+

05/21/2018 07:48 PM - Ichimonji10

Status:	CLOSED - CURRENTRELEASE	Start date:	
Priority:	Urgent	Due date:	
Assignee:	dalley	Estimated time:	0:00 hour
Category:			
Sprint/Milestone:			
Severity:	3. High	Groomed:	No
Version:	Master	Sprint Candidate:	No
Platform Release:	2.16.2	Tags:	Pulp 2
OS:		Sprint:	Sprint 38
Triaged:	Yes	Quarter:	

Description

To reproduce, simply install Pulp 2.16.1 (the most recent stable release) or Pulp 2 nightly on Fedora 27, and try to use it. You'll immediately encounter strange behaviour. A good Pulp Smash reproducer is `python -m unittest pulp_smash.tests.pulp2.docker.api_v2.test_copy`. (This is the first test that's typically executed by Jenkins.) The test will immediately stall, as Pulp Smash polls an ongoing asynchronous Pulp task which never returns.

Why is this happening? It's not because of failed services. Here's some output from one VM:

```
[root@fedora-27-pulp-2-16-stable ~]# systemctl --state failed
UNIT                                LOAD    ACTIVE SUB    DESCRIPTION
● mcelog.service loaded failed failed Machine Check Exception Logging Daemon
```

LOAD = Reflects whether the unit definition was properly loaded.

ACTIVE = The high-level unit activation state, i.e. generalization of SUB.

SUB = The low-level unit activation state, values depend on unit type.

1 loaded units listed. Pass --all to see loaded but inactive units, too.

To show all installed unit files use 'systemctl list-unit-files'.

This failure is both benign and unrelated to pulp. The mcelog service checks for hardware errors in CPUs, and it doesn't work on some (all?) AMD processors, and it may not work on VMs anyway.

Let's take a look at logs on Fedora 26 and 27:

```
[root@fedora-26-pulp-2-16-stable ~]# journalctl -p 0..4 --boot=-0
-- Logs begin at Mon 2018-05-21 09:57:57 EDT, end at Mon 2018-05-21 12:25:44 EDT. --
May 21 11:37:02 fedora-26 systemd[1]: /run/systemd/generator/dev-mapper-fedora\x2droot.device.d/ti
meout.conf:3: Unknown lvalue 'JobRunningTimeoutSec' in section 'Unit'
May 21 11:37:03 fedora-26 systemd[1]: /run/systemd/generator/dev-mapper-fedora\x2droot.device.d/ti
meout.conf:3: Unknown lvalue 'JobRunningTimeoutSec' in section 'Unit'
May 21 11:37:03 fedora-26 systemd[1]: /etc/systemd/system/dev-fedora-swap.device.d/timeout.conf:3:
Unknown lvalue 'JobRunningTimeoutSec' in section 'Unit'
May 21 11:37:03 fedora-26 systemd[1]: /etc/systemd/system/dev-fedora-root.device.d/timeout.conf:3:
Unknown lvalue 'JobRunningTimeoutSec' in section 'Unit'
May 21 11:37:04 fedora-26-pulp-2-16-stable kernel: systemd: 17 output lines suppressed due to rate
limiting
May 21 11:37:04 fedora-26-pulp-2-16-stable kernel: Decoding supported only on Scalable MCA process
ors.
May 21 11:37:04 fedora-26-pulp-2-16-stable kernel: Decoding supported only on Scalable MCA process
ors.
May 21 11:37:05 fedora-26-pulp-2-16-stable systemd[1]: mcelog.service: Failed with result 'exit-co
de'.
May 21 11:37:05 fedora-26-pulp-2-16-stable smartd[710]: DEVICSCAN failed: glob(3) aborted matchin
g pattern /dev/discs/disc*
May 21 11:37:05 fedora-26-pulp-2-16-stable smartd[710]: In the system's table of devices NO device
```

```
s found to scan
May 21 11:37:07 fedora-26-pulp-2-16-stable systemd[1]: iscsi.service: Unit cannot be reloaded because it is inactive.
May 21 11:37:49 fedora-26-pulp-2-16-stable sshd[1383]: pam_lastlog(sshd:session): unable to open /var/log/lastlog: No such file or directory
May 21 11:39:05 fedora-26-pulp-2-16-stable pulp[1134]: py.warnings:WARNING: [357b1e0a] (1134-59552) /usr/lib64/python2.7/site-packages/pymongo/topology.py:145: UserWarning: MongoClient opened before fork. Create MongoClient with connect=False, or create client after forking. See PyMongo's documentation for details: ht
May 21 11:39:05 fedora-26-pulp-2-16-stable pulp[1134]: py.warnings:WARNING: [357b1e0a] (1134-59552) "MongoClient opened before fork. Create MongoClient "
May 21 11:39:05 fedora-26-pulp-2-16-stable pulp[1134]: py.warnings:WARNING: [357b1e0a] (1134-59552)
May 21 11:39:05 fedora-26-pulp-2-16-stable pulp[1149]: py.warnings:WARNING: [72cc7015] (1149-96352) /usr/lib64/python2.7/site-packages/pymongo/topology.py:145: UserWarning: MongoClient opened before fork. Create MongoClient with connect=False, or create client after forking. See PyMongo's documentation for details: ht
May 21 11:39:05 fedora-26-pulp-2-16-stable pulp[1149]: py.warnings:WARNING: [72cc7015] (1149-96352) "MongoClient opened before fork. Create MongoClient "
May 21 11:39:05 fedora-26-pulp-2-16-stable pulp[1149]: py.warnings:WARNING: [72cc7015] (1149-96352)
May 21 12:07:09 fedora-26-pulp-2-16-stable pulp[1139]: py.warnings:WARNING: [d499acf9] (1139-96480) /usr/lib64/python2.7/site-packages/pymongo/topology.py:145: UserWarning: MongoClient opened before fork. Create MongoClient with connect=False, or create client after forking. See PyMongo's documentation for details: ht
May 21 12:07:09 fedora-26-pulp-2-16-stable pulp[1139]: py.warnings:WARNING: [d499acf9] (1139-96480) "MongoClient opened before fork. Create MongoClient "
May 21 12:07:09 fedora-26-pulp-2-16-stable pulp[1139]: py.warnings:WARNING: [d499acf9] (1139-96480)

[root@fedora-27-pulp-2-16-stable ~]# journalctl --priority 0..4 --boot=-0
-- Logs begin at Mon 2018-05-21 09:57:58 EDT, end at Mon 2018-05-21 12:10:20 EDT. --
May 21 11:37:04 fedora-27-pulp-2-16-stable kernel: systemd: 18 output lines suppressed due to rate limiting
May 21 11:37:04 fedora-27-pulp-2-16-stable kernel: Decoding supported only on Scalable MCA processors.
May 21 11:37:04 fedora-27-pulp-2-16-stable kernel: amd64_edac_mod: Unknown symbol amd_unregister_ecc_decoder (err -2)
May 21 11:37:04 fedora-27-pulp-2-16-stable kernel: amd64_edac_mod: Unknown symbol amd_register_ecc_decoder (err -2)
May 21 11:37:04 fedora-27-pulp-2-16-stable kernel: amd64_edac_mod: Unknown symbol amd_report_gart_errors (err -2)
May 21 11:37:04 fedora-27-pulp-2-16-stable rsyslogd[699]: environment variable TZ is not set, auto correcting this to TZ=/etc/localtime [v8.34.0 try http://www.rsyslog.com/e/2442 ]
May 21 11:37:04 fedora-27-pulp-2-16-stable smartd[709]: DEVICSCAN failed: glob(3) aborted matching pattern /dev/discs/disc*
May 21 11:37:04 fedora-27-pulp-2-16-stable smartd[709]: In the system's table of devices NO devices found to scan
May 21 11:37:04 fedora-27-pulp-2-16-stable systemd[1]: mcelog.service: Failed with result 'exit-code'.
May 21 11:37:06 fedora-27-pulp-2-16-stable systemd[1]: iscsi.service: Unit cannot be reloaded because it is inactive.
May 21 11:39:05 fedora-27-pulp-2-16-stable pulp[1310]: py.warnings:WARNING: [6aaee6d5] (1310-16320) /usr/lib64/python2.7/site-packages/pymongo/topology.py:145: UserWarning: MongoClient opened before fork. Create MongoClient with connect=False, or create client after forking. See PyMongo's documentation for details: ht
May 21 11:39:05 fedora-27-pulp-2-16-stable pulp[1310]: py.warnings:WARNING: [6aaee6d5] (1310-16320) "MongoClient opened before fork. Create MongoClient "
May 21 11:39:05 fedora-27-pulp-2-16-stable pulp[1310]: py.warnings:WARNING: [6aaee6d5] (1310-16320)
May 21 11:39:05 fedora-27-pulp-2-16-stable pulp[1308]: py.warnings:WARNING: [b1f6b58d] (1308-18464) /usr/lib64/python2.7/site-packages/pymongo/topology.py:145: UserWarning: MongoClient opened before fork. Create MongoClient with connect=False, or create client after forking. See PyMongo's documentation for details: ht
May 21 11:39:05 fedora-27-pulp-2-16-stable pulp[1308]: py.warnings:WARNING: [b1f6b58d] (1308-18464) "MongoClient opened before fork. Create MongoClient "
May 21 11:39:05 fedora-27-pulp-2-16-stable pulp[1308]: py.warnings:WARNING: [b1f6b58d] (1308-18464)
```

```

)
May 21 11:39:08 fedora-27-pulp-2-16-stable pulp[1308]: py.warnings:WARNING: (1308-18464) /usr/lib/
python2.7/site-packages/celery/app/trace.py:542: RuntimeWarning: Exception raised outside body: No
tUniqueError(u'Tried to save duplicate unique keys (E11000 duplicate key error collection: pulp_da
tabase.task_status index:
May 21 11:39:08 fedora-27-pulp-2-16-stable pulp[1308]: py.warnings:WARNING: (1308-18464) Traceback
 (most recent call last):
May 21 11:39:08 fedora-27-pulp-2-16-stable pulp[1308]: py.warnings:WARNING: (1308-18464) File "/
usr/lib/python2.7/site-packages/celery/app/trace.py", line 435, in trace_task
May 21 11:39:08 fedora-27-pulp-2-16-stable pulp[1308]: py.warnings:WARNING: (1308-18464) task_
on_success(retval, uuid, args, kwargs)
May 21 11:39:08 fedora-27-pulp-2-16-stable pulp[1308]: py.warnings:WARNING: (1308-18464) File "/
usr/lib/python2.7/site-packages/pulp/server/async/tasks.py", line 577, in on_success
May 21 11:39:08 fedora-27-pulp-2-16-stable pulp[1308]: py.warnings:WARNING: (1308-18464) task_
status.save()
May 21 11:39:08 fedora-27-pulp-2-16-stable pulp[1308]: py.warnings:WARNING: (1308-18464) File "/
usr/lib/python2.7/site-packages/mongoengine/document.py", line 400, in save
May 21 11:39:08 fedora-27-pulp-2-16-stable pulp[1308]: py.warnings:WARNING: (1308-18464) raise
 NotUniqueError(message % six.text_type(err))
May 21 11:39:08 fedora-27-pulp-2-16-stable pulp[1308]: py.warnings:WARNING: (1308-18464) NotUnique
Error: Tried to save duplicate unique keys (E11000 duplicate key error collection: pulp_database.t
ask_status index: task_id_-1 dup key: { : "b1f6b58d-1cec-41c6-86dd-ef0bbe5f1bf6" })
May 21 11:39:08 fedora-27-pulp-2-16-stable pulp[1308]: py.warnings:WARNING: (1308-18464)
May 21 11:39:08 fedora-27-pulp-2-16-stable pulp[1308]: py.warnings:WARNING: (1308-18464) exc, ex
c_info.traceback)))
May 21 11:39:08 fedora-27-pulp-2-16-stable pulp[1308]: py.warnings:WARNING: (1308-18464)

```

This is interesting: Pulp is encountering a duplicate key error in mongo. Even more interesting is that this error is reproducible. Duplicate key errors occur immediately whether Pulp 2.16 stable or Pulp 2.16 nightly is installed.

What might explain this? It might be due to a Mongo-related upgrade. Here's some of the packages on Fedora 26 and 27:

```

[root@fedora-26-pulp-2-16-stable audit]# rpm -qa | grep mongo | sort
mongodb-3.4.10-1.fc26.x86_64
mongodb-server-3.4.10-1.fc26.x86_64
python2-mongoengine-0.11.0-2.fc26.noarch
python2-pymongo-3.4.0-6.fc26.x86_64
python2-pymongo-gridfs-3.4.0-6.fc26.x86_64
[root@fedora-26-pulp-2-16-stable audit]# rpm -qa | grep pulp | sort
pulp-admin-client-2.16.1-1.fc26.noarch
pulp-deb-admin-extensions-1.7.0-1.fc26.noarch
pulp-deb-plugins-1.7.0-1.fc26.noarch
pulp-docker-admin-extensions-3.1.3-1.fc26.noarch
pulp-docker-plugins-3.1.3-1.fc26.noarch
pulp-ostree-admin-extensions-1.3.0-1.fc26.noarch
pulp-ostree-plugins-1.3.0-1.fc26.noarch
pulp-puppet-admin-extensions-2.16.1-1.fc26.noarch
pulp-puppet-plugins-2.16.1-1.fc26.noarch
pulp-puppet-tools-2.16.1-1.fc26.noarch
pulp-python-admin-extensions-2.0.2-1.fc26.noarch
pulp-python-plugins-2.0.2-1.fc26.noarch
pulp-rpm-admin-extensions-2.16.1-1.fc26.noarch
pulp-rpm-plugins-2.16.1-1.fc26.noarch
pulp-selinux-2.16.1-1.fc26.noarch
pulp-server-2.16.1-1.fc26.noarch
python-pulp-bindings-2.16.1-1.fc26.noarch
python-pulp-client-lib-2.16.1-1.fc26.noarch
python-pulp-common-2.16.1-1.fc26.noarch
python-pulp-deb-common-1.7.0-1.fc26.noarch
python-pulp-docker-common-3.1.3-1.fc26.noarch
python-pulp-oid_validation-2.16.1-1.fc26.noarch
python-pulp-ostree-common-1.3.0-1.fc26.noarch
python-pulp-puppet-common-2.16.1-1.fc26.noarch
python-pulp-python-common-2.0.2-1.fc26.noarch
python-pulp-repoauth-2.16.1-1.fc26.noarch
python-pulp-rpm-common-2.16.1-1.fc26.noarch
python-pulp-streamer-2.16.1-1.fc26.noarch

```

```
[root@fedora-27-pulp-2-16-stable audit]# rpm -qa | grep mongo | sort
mongodb-3.4.11-2.fc27.x86_64
mongodb-server-3.4.11-2.fc27.x86_64
python2-mongoengine-0.15.1-1.fc27.noarch
python2-pymongo-3.5.1-1.fc27.x86_64
python2-pymongo-gridfs-3.5.1-1.fc27.x86_64
[root@fedora-27-pulp-2-16-stable audit]# rpm -qa | grep pulp | sort
pulp-admin-client-2.16.1-1.fc27.noarch
pulp-deb-admin-extensions-1.7.0-1.fc27.noarch
pulp-deb-plugins-1.7.0-1.fc27.noarch
pulp-docker-admin-extensions-3.1.3-1.fc27.noarch
pulp-docker-plugins-3.1.3-1.fc27.noarch
pulp-ostree-admin-extensions-1.3.0-1.fc27.noarch
pulp-ostree-plugins-1.3.0-1.fc27.noarch
pulp-puppet-admin-extensions-2.16.1-1.fc27.noarch
pulp-puppet-plugins-2.16.1-1.fc27.noarch
pulp-puppet-tools-2.16.1-1.fc27.noarch
pulp-python-admin-extensions-2.0.2-1.fc27.noarch
pulp-python-plugins-2.0.2-1.fc27.noarch
pulp-rpm-admin-extensions-2.16.1-1.fc27.noarch
pulp-rpm-plugins-2.16.1-1.fc27.noarch
pulp-selinux-2.16.1-1.fc27.noarch
pulp-server-2.16.1-1.fc27.noarch
python-pulp-bindings-2.16.1-1.fc27.noarch
python-pulp-client-lib-2.16.1-1.fc27.noarch
python-pulp-common-2.16.1-1.fc27.noarch
python-pulp-deb-common-1.7.0-1.fc27.noarch
python-pulp-docker-common-3.1.3-1.fc27.noarch
python-pulp-oid_validation-2.16.1-1.fc27.noarch
python-pulp-ostree-common-1.3.0-1.fc27.noarch
python-pulp-puppet-common-2.16.1-1.fc27.noarch
python-pulp-python-common-2.0.2-1.fc27.noarch
python-pulp-repoauth-2.16.1-1.fc27.noarch
python-pulp-rpm-common-2.16.1-1.fc27.noarch
python-pulp-streamer-2.16.1-1.fc27.noarch
```

Finally, it's worth noting that the Pulp 2 Vagrant VMs still use Fedora 26. See:
<https://github.com/pulp/devel/blob/master/Vagrantfile.example#L30>

Related issues:

Is duplicate of Pulp - Issue #3148: duplicate key error on task_status collect...

CLOSED - DUPLICATE

Associated revisions

Revision f045e190 - 06/03/2018 07:42 AM - dalley

Fixes Pulp w/ Mongoengine v0.14.1+

closes #3687 <https://pulp.plan.io/issues/3687>

Revision c6e8bed7 - 06/18/2018 08:09 PM - dalley

Fixes Pulp w/ Mongoengine v0.14.1+

closes #3687 <https://pulp.plan.io/issues/3687>

(cherry picked from commit f045e190172784312f27d2fc315a46f57be48bad)

History

#1 - 05/21/2018 07:48 PM - Ichimonji10

- Description updated

#2 - 05/21/2018 08:07 PM - dalley

- Priority changed from Normal to High

- Severity changed from 2. Medium to 3. High

#3 - 05/22/2018 04:38 PM - dalley

- Priority changed from High to Urgent

- Triaged changed from No to Yes

#4 - 05/22/2018 04:43 PM - ttereshc

I guess the problem is in mongoengine version and this issue is a dup of [#3148](#). Thoughts?

#5 - 05/22/2018 04:53 PM - dalley

Agree [ttereshc](#), it does look like the same issue.

#6 - 05/22/2018 04:53 PM - dalley

- Is duplicate of Issue #3148: duplicate key error on task_status collection with mongoengine 0.14 added

#7 - 05/22/2018 04:58 PM - ttereshc

FWIW, in F27 there is mongoengine 0.12, so a temporary solution is to limit mongoengine version to <=0.13. But for F28 it's 0.14+, so Pulp won't work on F28 without any fixes.

<https://apps.fedoraproject.org/packages/python-mongoengine/builds/>

#8 - 05/22/2018 05:03 PM - dalley

- Subject changed from Pulp 2 doesn't work on Fedora 27 to Pulp 2 doesn't work on Fedora 27+

#9 - 05/22/2018 08:12 PM - dalley

- Sprint set to Sprint 37

#10 - 05/22/2018 10:00 PM - kersom

Just a few notes:

I was able to downgrade the package python2-mongoengine to 0.12.0-1, and run tests against the system. The reported error did not appear again.

I looked the history of updates of python2-mongoengine package.

<https://apps.fedoraproject.org/packages/python-mongoengine/updates/>

In May 10 the package was updated to version python2-mongoengine-0.15.1-1.fc27, in the next day we started to have failures on our tests.

It seems to me that this update was the cause of test failures on F27.

Issue [#3148](#), marked as duplicated for this one, was filed against an OS (Suse) that we do not use as part of test automation.

#11 - 05/24/2018 04:20 PM - rchan

- Status changed from NEW to CLOSED - DUPLICATE

Keeping the newer issue open ([#3687](#)) since it has a higher urgency due to impacting fedora and our nightly automation.

#12 - 05/24/2018 05:54 PM - rchan

- Status changed from CLOSED - DUPLICATE to NEW

#13 - 05/25/2018 04:16 PM - dalley

- Status changed from NEW to ASSIGNED

- Assignee set to dalley

After bisecting commits using a source installation of Mongoengine, the culprit commit was this Pull Request to Mongoengine

<https://github.com/MongoEngine/mongoengine/pull/1630>

I will try to contact the developers for help regarding this issue. In the meantime I will also try to work around the issue from our end.

#14 - 06/01/2018 11:12 PM - rchan

- Sprint changed from Sprint 37 to Sprint 38

#15 - 06/02/2018 05:35 AM - dalley

- Status changed from ASSIGNED to POST

Problem wasn't in Mongoengine, it was in our own code relying on Mongoengine implementation details.

<https://github.com/pulp/pulp/pull/3514>

#16 - 06/04/2018 09:46 PM - dalley

- Status changed from POST to MODIFIED

Applied in changeset [pulpf045e190172784312f27d2fc315a46f57be48bad](#).

#17 - 06/15/2018 01:54 PM - dkliban@redhat.com

- Platform Release set to 2.16.2

#18 - 06/18/2018 08:09 PM - dalley

Applied in changeset [pulp6e8bed7ee49235169fc673c7c300ebdeccc3e](#).

#19 - 06/25/2018 10:37 PM - ragbalak

I ran the pulp-smash file `python -m unittest pulp_smash.tests.pulp2.docker.api_v2.test_copy` with
`pulp_smash/tests/pulp2/docker/utlis.py : line 20 : Commented out`
`pulp2_utlis.require_issue_3687()` (Else it was skipping)

This ran successfully 6 tests

#20 - 07/09/2018 04:29 PM - ipanova@redhat.com

- Status changed from MODIFIED to CLOSED - CURRENTRELEASE

#21 - 04/15/2019 10:11 PM - bmbouter

- Tags Pulp 2 added