

## RPM Support - Issue #1570

### Reading an RPM repo returns incorrect rpm\_unit\_counts

01/22/2016 05:38 PM - Ichimonji10

<b>Status:</b>	CLOSED - CURRENTRELEASE	<b>Start date:</b>	
<b>Priority:</b>	High	<b>Due date:</b>	
<b>Assignee:</b>	ttereshc	<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:</b>	Master	<b>Sprint Candidate:</b>	No
<b>Platform Release:</b>	2.8.0	<b>Tags:</b>	Pulp 2
<b>OS:</b>		<b>Sprint:</b>	
<b>Triaged:</b>	Yes	<b>Quarter:</b>	
<b>Description</b>			
<p>Let's say you have a repository, and you read information about that repository by issuing an HTTP GET request to /pulp/api/v2/repositories/{repo_id}/. The server will return an object like so:</p> <pre>{u'_href': u'/pulp/api/v2/repositories/5f6f8439-ff54-41d7-884f-345b6269615c/', u'_id': {u'\$oid': u'56a25837e7798903cef0ad8b'}, u'_ns': u'repos', u'content_unit_counts': {u'erratum': 4,                         u'package_category': 1,                         u'package_group': 2,                         u'rpm': 32}, u'description': None, u'display_name': u'5f6f8439-ff54-41d7-884f-345b6269615c', u'id': u'5f6f8439-ff54-41d7-884f-345b6269615c', u'last_unit_added': u'2016-01-22T16:26:39Z', u'last_unit_removed': None, u'notes': {u'_repo-type': u'rpm-repo'}, u'scratchpad': {u'checksum_type': u'sha256'}}</pre>			
<p>Unfortunately, the ['content_unit_counts']['rpm'] section is frequently incorrect. Here is a test run from my local test system:</p> <pre>\$ PULP_SMASH_CONFIG_FILE=\$PS_CONFIG python -m unittest2 pulp_smash.tests.rpm.api_v2.test_sync_publish.SyncValidFeedTestCase ... ===== FAIL: test_unit_count_on_repo (pulp_smash.tests.rpm.api_v2.test_sync_publish.SyncValidFeedTestCase) (unit_type='rpm') Verify that the sync added the correct number of units to the repo. ----- Traceback (most recent call last):   File "/home/ichimonji10/code/pulp-smash/pulp_smash/tests/rpm/api_v2/test_sync_publish.py", line 209, in test_unit_count_on_repo     self.assertEqual(counts.get(unit_type), count) AssertionError: 34 != 32 ----- Ran 4 tests in 12.259s  FAILED (failures=1)</pre>			
<p>As you can see, the "rpm" section has a count of 34, not 32 as expected. You can verify these results by going to <a href="#">the repository</a> and counting the number of RPMs there.</p>			
<b>Related issues:</b>			
Related to Pulp - Issue #1467: Repository unit counts are not always accurate...		<b>CLOSED - CURRENTRELEASE</b>	

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## Associated revisions

### Revision 2d8a07c8 - 02/10/2016 11:54 AM - ttereshc

Fix rpm\_unit\_counts, handle upload of the existing rpm unit

closes #1570 <https://pulp.plan.io/issues/1570>

## History

### #1 - 01/26/2016 11:54 AM - ipanova@redhat.com

Probably it is related to <https://pulp.plan.io/issues/1467>

### #2 - 01/26/2016 11:54 AM - ipanova@redhat.com

- Related to Issue #1467: Repository unit counts are not always accurate when the plugin authors forget to update them added

### #3 - 01/26/2016 05:53 PM - ttereshc

- Status changed from NEW to ASSIGNED

- Assignee set to ttereshc

### #4 - 01/27/2016 03:56 PM - ttereshc

Hi Ichimonji10,

I can't reproduce this issue. I tried adding/removing rpms, syncing repo, every time counters were right.

[Pulp Smash tests](#) passed on my machine, I ran them multiple times in a loop (with skipTest commented), no failures.

Could you check that you run tests against recent Pulp version, the similar issue [#1467](#) was fixed about 3 weeks ago.

If tests still fail, any hints how to reproduce it are greatly appreciated.

### #5 - 01/28/2016 04:21 PM - Ichimonji10

- File *Screenshot\_2016-01-28\_10-20-43.png* added

I'm testing against a pair of local Vagrant-managed virtual machines. I leave one VM exactly as is, running the master version of Pulp, and I roll back the second to version 2.7. My procedure for spinning up a fresh VM is as follows:

```
mkdir pulp-dev
cd pulp-dev
urls=(git@github.com:pulp/pulp{,_(docker,puppet,python,rpm)})
for url in "${urls[@]}; do
    git clone "${url}"
done
cd pulp
cp Vagrantfile(.example,.)
vim Vagrantfile playpen/ansible/vagrant-playbook.yml # make identifiers unique
vagrant up
```

My procedure for rolling back a VM to Pulp 2.7 is [this script](#)

I most recently spun up VMs this morning, and I re-ran the relevant tests just now. Before running the tests, I commented out relevant test selectors, like so:

```
def test_unit_count_on_repo(self):
    """Verify that the sync added the correct number of units to the repo.

    Read the repository and examine its ``content_unit_counts`` attribute.
    Compare these attributes to metadata from the remote repository.
    Expected values are currently hard-coded into this test.
    """
    # if (self.cfg.version >= Version('2.8') and
    #     selectors.bug_is_untestable(1455)):
    #     self.skipTest('https://pulp.plan.io/issues/1455')
    counts = self.repo.get('content_unit_counts', {})
    for unit_type, count in {
        'rpm': 32,
        'erratum': 4,
        'package_group': 2,
        'package_category': 1,
    }.items():
        # if (unit_type == 'rpm' and self.cfg.version >= Version('2.8') and
        #     selectors.bug_is_untestable(1570)):
        #     continue
```

```
with self.subTest(unit_type=unit_type):
    self.assertEqual(counts.get(unit_type), count)
```

I executed the tests with the following command:

```
PULP_SMASH_CONFIG_FILE=$PS_CONFIG \  
python -m unittest2 pulp_smash.tests.rpm.api_v2.test_sync_publish.SyncValidFeedTestCase
```

The \$PS\_CONFIG variable shouldn't be relevant to this bug. It evaluates to a value such as pulp-dev-9.json or pulp-2.7-9.json, and it allows me to test against multiple VMs in parallel. See the attached screenshot.

**#6 - 01/28/2016 04:30 PM - Ichimonji10**

- File *Screenshot\_2016-01-28\_10-30-05.png* added

Eugh, the screenshot referenced above is incorrect. See new screenshot.

**#7 - 01/29/2016 04:41 PM - jortel@redhat.com**

- Platform Release set to 2.8.0

- Triaged changed from No to Yes

**#8 - 01/29/2016 05:47 PM - jortel@redhat.com**

- Priority changed from Normal to High

- Platform Release changed from 2.8.0 to 2.8.1

**#9 - 02/03/2016 11:34 PM - pthomas@redhat.com**

Because of how this issue is affecting satellite and for the fact that its a 2.8 regression, Can we bump the priority on this so that we can get this addressed in 2.8.

**#10 - 02/04/2016 01:47 PM - Anonymous**

- Platform Release changed from 2.8.1 to 2.8.0

Problem has been reproduced by ttereshc and ipanova and are close to identifying the root cause.

**#11 - 02/10/2016 12:14 PM - ttereshc**

- Status changed from ASSIGNED to POST

Counters were higher than expected when you tried to upload the file which was already in repo due to the absence of the uniqueness constraint in the database.

This part was fixed <https://github.com/pulp/pulp/pull/2392>

Then counters became lower than expected because the upload of the existing file was not handled well.

[https://github.com/pulp/pulp\\_rpm/pull/800](https://github.com/pulp/pulp_rpm/pull/800)

**#12 - 02/15/2016 11:46 AM - ttereshc**

- Status changed from POST to MODIFIED

- % Done changed from 0 to 100

Applied in changeset [2d8a07c83a53e55dad4612253ecb5e0b00e73ac0](https://github.com/pulp/pulp_rpm/pull/800).

**#13 - 02/23/2016 09:58 PM - dkliban@redhat.com**

- Status changed from MODIFIED to 5

**#14 - 03/15/2016 03:03 PM - pthomas@redhat.com**

- Status changed from 5 to 6

verified

```
[root@ibm-x3550m3-10 ~]# rpm -qa |grep pulp  
python-pulp-repoauth-2.8.0-0.9.rc.el7.noarch  
pulp-agent-2.8.0-0.9.rc.el7.noarch  
pulp-admin-client-2.8.0-0.9.rc.el7.noarch  
pulp-nodes-common-2.8.0-0.9.rc.el7.noarch  
python-pulp-puppet-common-2.8.0-0.9.rc.el7.noarch
```

pulp-rpm-consumer-extensions-2.8.0-0.9.rc.el7.noarch  
pulp-nodes-child-2.8.0-0.9.rc.el7.noarch  
python-pulp-rpm-common-2.8.0-0.9.rc.el7.noarch  
python-pulp-bindings-2.8.0-0.9.rc.el7.noarch  
python-pulp-oid\_validation-2.8.0-0.9.rc.el7.noarch  
pulp-rpm-plugins-2.8.0-0.9.rc.el7.noarch  
pulp-puppet-admin-extensions-2.8.0-0.9.rc.el7.noarch  
pulp-consumer-client-2.8.0-0.9.rc.el7.noarch  
pulp-puppet-handlers-2.8.0-0.9.rc.el7.noarch  
pulp-puppet-consumer-extensions-2.8.0-0.9.rc.el7.noarch  
pulp-nodes-consumer-extensions-2.8.0-0.9.rc.el7.noarch  
python-pulp-common-2.8.0-0.9.rc.el7.noarch  
pulp-server-2.8.0-0.9.rc.el7.noarch  
python-kombu-3.0.33-4.pulp.el7.noarch  
pulp-docker-plugins-2.0.0-0.9.rc.el7.noarch  
pulp-rpm-admin-extensions-2.8.0-0.9.rc.el7.noarch  
pulp-docker-admin-extensions-2.0.0-0.9.rc.el7.noarch  
python-pulp-agent-lib-2.8.0-0.9.rc.el7.noarch  
pulp-rpm-yumplugins-2.8.0-0.9.rc.el7.noarch  
python-pulp-docker-common-2.0.0-0.9.rc.el7.noarch  
pulp-puppet-plugins-2.8.0-0.9.rc.el7.noarch  
pulp-selinux-2.8.0-0.9.rc.el7.noarch  
pulp-rpm-handlers-2.8.0-0.9.rc.el7.noarch  
python-isodate-0.5.0-4.pulp.el7.noarch  
python-pulp-client-lib-2.8.0-0.9.rc.el7.noarch  
[root@ibm-x3550m3-10 ~]#

```
(env)[preethi@dhcp129-52 pulp-smash]$ python m-unittest2_pulp_smash.tests.rpm.api.v2.test_sync_publish.SyncValidFeedTestCase
```

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Ran 4 tests in 29.291s

OK  
(env)[preethi@dhcp129-52 pulp-smash]\$

**#15 - 03/23/2016 07:48 PM - dkliban@redhat.com**  
- Status changed from 6 to CLOSED - CURRENTRELEASE

**#17 - 04/15/2019 10:37 PM - bmbouter**  
- Tags Pulp 2 added

### Files

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Screenshot_2016-01-28_10-20-43.png	1.33 MB	01/28/2016	Ichimonji10
Screenshot_2016-01-28_10-30-05.png	1.3 MB	01/28/2016	Ichimonji10