

## RPM Support - Issue #2134

### Updating a repo without specifying checksum\_type causes KeyError

08/05/2016 10:20 PM - mhrivnak

<b>Status:</b>	CLOSED - CURRENTRELEASE	<b>Start date:</b>	
<b>Priority:</b>	High	<b>Due date:</b>	
<b>Assignee:</b>	fdobrovo	<b>Estimated time:</b>	0:00 hour
<b>Category:</b>		<b>Groomed:</b>	No
<b>Sprint/Milestone:</b>		<b>Sprint Candidate:</b>	No
<b>Severity:</b>	2. Medium	<b>Tags:</b>	Easy Fix, Pulp 2
<b>Version:</b>	2.8.4	<b>Sprint:</b>	
<b>Platform Release:</b>	2.9.3	<b>Quarter:</b>	
<b>OS:</b>			
<b>Triaged:</b>	No		
<b>Description</b>			
From bugzilla:			
On updating a repo without touching checksum_type attribute, pulp raises an unexpected KeyError:			
<pre>Jul 15 10:50:32 rhsm-qe-3 pulp: celery.worker.job:ERROR: (4746-12352) Task pulp.server.tasks.repository.distributor_update[36edf787-70ca-437a-b840-a3aebba3fd4e] raised unexpected: KeyError(u'checksum_type',) Jul 15 10:50:32 rhsm-qe-3 pulp: celery.worker.job:ERROR: (4746-12352) Traceback (most recent call last): Jul 15 10:50:32 rhsm-qe-3 pulp: celery.worker.job:ERROR: (4746-12352)   File "/usr/lib/python2.7/site-packages/celery/app/trace.py", line 240, in trace_task Jul 15 10:50:32 rhsm-qe-3 pulp: celery.worker.job:ERROR: (4746-12352)     R = retval = fun(*args, **kwargs) Jul 15 10:50:32 rhsm-qe-3 pulp: celery.worker.job:ERROR: (4746-12352)   File "/usr/lib/python2.7/site-packages/pulp/server/async/tasks.py", line 473, in __call__ Jul 15 10:50:32 rhsm-qe-3 pulp: celery.worker.job:ERROR: (4746-12352)     return super(Task, self).__call__(*args, **kwargs) Jul 15 10:50:32 rhsm-qe-3 pulp: celery.worker.job:ERROR: (4746-12352)   File "/usr/lib/python2.7/site-packages/pulp/server/async/tasks.py", line 103, in __call__ Jul 15 10:50:32 rhsm-qe-3 pulp: celery.worker.job:ERROR: (4746-12352)     return super(PulpTask, self).__call__(*args, **kwargs) Jul 15 10:50:32 rhsm-qe-3 pulp: celery.worker.job:ERROR: (4746-12352)   File "/usr/lib/python2.7/site-packages/celery/app/trace.py", line 437, in __protected_call__ Jul 15 10:50:32 rhsm-qe-3 pulp: celery.worker.job:ERROR: (4746-12352)     return self.run(*args, **kwargs) Jul 15 10:50:32 rhsm-qe-3 pulp: celery.worker.job:ERROR: (4746-12352)   File "/usr/lib/python2.7/site-packages/pulp/server/controllers/distributor.py", line 211, in update Jul 15 10:50:32 rhsm-qe-3 pulp: celery.worker.job:ERROR: (4746-12352)     distributor.config.pop(k) Jul 15 10:50:32 rhsm-qe-3 pulp: celery.worker.job:ERROR: (4746-12352)   File "/usr/lib/python2.7/site-packages/mongoengine/base/datastructures.py", line 73, in pop Jul 15 10:50:32 rhsm-qe-3 pulp: celery.worker.job:ERROR: (4746-12352)     return super(BaseDict, self).pop(*args, **kwargs) Jul 15 10:50:32 rhsm-qe-3 pulp: celery.worker.job:ERROR: (4746-12352) KeyError: u'checksum_type'</pre>			
Things seem to go wrong here: <a href="https://github.com/pulp/pulp/blob/2.8-dev/server/pulp/server/controllers/distributor.py#L211">https://github.com/pulp/pulp/blob/2.8-dev/server/pulp/server/controllers/distributor.py#L211</a>			
<b>Related issues:</b>			
Has duplicate Pulp - Issue #2076: distributor update fails trying to remove a...		<b>CLOSED - DUPLICATE</b>	

#### Associated revisions

Revision a4038809 - 08/17/2016 10:55 PM - fdobrovo

Fix crash from removing missing option from dist conf

Fixed crash that arise when we try to remove an option from distributor confing which was not before set. This ends up in KeyError because this option was not in config dict. This was fixed and also added TestCase for it.

Summary:

- Fixed pulp.server.controllers.distributor.update to ignore missing options from distributor config
- Added TestCase for this behaviour TestUpdate.test\_remove\_none\_values\_non\_existing()

closes #2134 <https://pulp.plan.io/issues/2134>

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## History

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### #1 - 08/08/2016 05:31 PM - fdobrovo

- Assignee set to fdobrovo

### #2 - 08/09/2016 12:19 PM - ipanova@redhat.com

- Status changed from NEW to ASSIGNED

### #3 - 08/12/2016 04:53 PM - amacdona@redhat.com

Did not triage because we are looking for more info on replication.

### #4 - 08/12/2016 09:37 PM - dalley

Granted, there is no information here as to what command, specifically, caused the error for this user, but I have found a way to reproduce it this error message.

```
pulp-admin rpm repo update --repo-id zoo --checksum-type=
```

The above code will cause the same error if "checksum\_type" is not previously defined in the distributor config.

I'm not sufficiently familiar with Pulp's CLI to know if that's supposed to be valid syntax or not, but in any case, I believe that is what the user is doing and what they meant by "not specifying the 'checksum\_type'".

The root cause is that the config being passed into update(..., config=None, ...) contains keys not included in the distributor config. Thus when the code does this:

```
for k, v in config.iteritems():
    if v is None:
        distributor.config.pop(k)
    else:
distributor.config[k] = v
```

"v" evaluates to None, and the key "k" is not already present in the distributor config, and so it will error when it attempts to "pop" the key off.

### #5 - 08/15/2016 11:59 AM - fdobrovo

- Tags Easy Fix added

If that so the only thing needed is to convert.

```
distributor.config.pop(k) -> distributor.config.pop(k, None)
```

### #6 - 08/15/2016 01:30 PM - fdobrovo

- Status changed from ASSIGNED to POST

The title should more likely be "Removing option from distributor config which was not set before causes KeyError"

**#7 - 08/15/2016 06:35 PM - amacdona@redhat.com**

<https://github.com/pulp/pulp/pull/2709>

**#8 - 08/18/2016 03:18 PM - fdobrovo**

- Status changed from POST to MODIFIED

- % Done changed from 0 to 100

Applied in changeset <pulp:pulp|a4038809ff82ae7a02cfa5c8e9d89deeab77ea35>.

**#9 - 08/18/2016 03:57 PM - fdobrovo**

- Platform Release set to 2.9.3

**#10 - 08/30/2016 08:47 PM - semyers**

- Status changed from MODIFIED to 5

**#11 - 09/13/2016 04:11 PM - elyezer**

- Status changed from 5 to 6

I have verified this on a Pulp 2.9.3b1 installation.

Step to verify:

```
1 pulp-admin login -u admin -p admin
2 pulp-admin rpm repo create --repo-id zoo
3 pulp-admin rpm repo update --repo-id zoo --checksum-type= # update with a null checksum-type
4 pulp-admin rpm repo list --repo-id zoo --details
5 pulp-admin rpm repo update --repo-id zoo --checksum-type=sha256 # update to a valid checksum-type
6 pulp-admin rpm repo list --repo-id zoo --details
7 pulp-admin rpm repo update --repo-id zoo --checksum-type= # update back to a null checksum-type
8 pulp-admin rpm repo list --repo-id zoo --details
```

**#12 - 09/13/2016 09:42 PM - elyezer**

An automated test was written to cover this issue [1]. That will ensure that a regression does not happen.

[1] <https://github.com/PulpQE/pulp-smash/pull/389>

**#13 - 09/19/2016 11:04 PM - semyers**

- Status changed from 6 to CLOSED - CURRENTRELEASE

**#14 - 12/12/2016 05:44 PM - ipanova@redhat.com**

- Has duplicate Issue #2076: distributor update fails trying to remove already-missing key added

**#17 - 04/15/2019 10:26 PM - bmbouter**

- Tags Pulp 2 added