

## Pulp - Story #5008

As a user, I can enforce content specific uniqueness constraints in a repo version

06/21/2019 04:30 PM - ttereshc

<b>Status:</b> MODIFIED	<b>Start date:</b>
<b>Priority:</b> Normal	<b>Due date:</b>
<b>Assignee:</b> bmbouter	<b>% Done:</b> 100%
<b>Category:</b>	<b>Estimated time:</b> 0:00 hour
<b>Sprint/Milestone:</b> 3.0	<b>QA Contact:</b>
<b>Platform Release:</b>	<b>Complexity:</b>
<b>Blocks Release:</b>	<b>Smash Test:</b>
<b>Backwards Incompatible:</b> No	<b>Verified:</b> No
<b>Groomed:</b> Yes	<b>Verification Required:</b> No
<b>Sprint Candidate:</b> Yes	<b>Sprint:</b> Sprint 60
<b>Tags:</b>	

**Description**

RemoveDuplicates stage provides the opportunity to enforce uniqueness constraints for content at the sync time. The duplicate problem can be encountered at any time content is added to a repository, not only at sync time. E.g. Content was uploaded, or content was synced as a part of other repo, and now it's added/copied to a new repository.

It would be good if some check/validation happened for any added content, e.g. [at this stage](#)

Examples for where uniqueness might be needed in a repo version:

- only one content unit with a certain characteristics should be present in a repo (only one advisory with the same id, only one module\_defaults for a module, etc)

This issue was discussed on this thread: <https://www.redhat.com/archives/pulp-dev/2019-May/msg00061.html>

**Solution**

Plugins:  
On the plugin content model define a repo\_key - one or more fields which must be unique within a repo version.

Pulpcore:  
Check uniqueness of the repo\_key for each added content type at the repository version creation time  
<https://github.com/pulp/pulpcore/blob/aef490e201f89fc005ba3239fda3a79c05e28fd7/pulpcore/app/models/repository.py#L343>.  
Whether it's sync, copy, or upload, repo\_key uniqueness will be ensured if core/plugin devs use with RepositoryVersion.create(...) context manager.

**Related issues:**

Related to File Support - Task #4028: Prevent duplicate files in repositories	<b>MODIFIED</b>
Related to RPM Support - Story #4898: As a user, no "duplicated" content is p...	<b>MODIFIED</b>

### Associated revisions

#### Revision c2be7fcb - 10/08/2019 12:12 AM - bmbouter

Add release note for changes in pulpcore

The feature is actually in pulpcore's code, but the release note needs to be in this package, which imports it.

Related PR: <https://github.com/pulp/pulpcore/pull/331>

<https://pulp.plan.io/issues/5008>

closes #5008

Revision b41a0923 - 10/08/2019 08:55 PM - bmbouter

Add repo\_key support for `add\_content`

The `Content` model now supports a `repo\_key` attribute which defaults to (). Plugin writers can specify this, and the tuple field names will automatically replace another unit of the same type with these field names.

Required PR: [https://github.com/pulp/pulp\\_file/pull/290](https://github.com/pulp/pulp_file/pull/290)

<https://pulp.plan.io/issues/5008>

closes #5008

## History

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**#1 - 06/21/2019 04:32 PM - ttereshc**

- Description updated

**#2 - 06/21/2019 04:34 PM - ttereshc**

- Related to Task #4028: Prevent duplicate files in repositories added

**#3 - 06/21/2019 04:34 PM - ttereshc**

- Related to Story #4898: As a user, no "duplicated" content is present in a repo version added

**#4 - 06/25/2019 04:48 PM - amacdona@redhat.com**

- Triaged changed from No to Yes

**#5 - 07/30/2019 03:36 PM - ttereshc**

- Description updated

**#6 - 07/30/2019 03:38 PM - ttereshc**

- Description updated

**#7 - 07/30/2019 04:50 PM - amacdona@redhat.com**

- Sprint set to Sprint 56

**#8 - 07/30/2019 06:31 PM - bmbouter**

This all looks good. Should we convert this to a story? To me in the changelog this would make the most sense as a new feature in the pulpcore-plugin package. What do you think?

**#9 - 07/31/2019 03:40 PM - ttereshc**

- Tracker changed from Issue to Story

- Subject changed from No way to enforce content specific uniqueness constraints in a repo version to As a user, I can enforce content specific uniqueness constraints in a repo version

- % Done set to 0

**#10 - 07/31/2019 04:07 PM - bmbouter**

- Groomed changed from No to Yes
- Sprint Candidate changed from No to Yes

This looks good to me. Thank you for recapping @ttereshc!

**#11 - 08/02/2019 03:14 PM - rchan**

- Sprint changed from Sprint 56 to Sprint 57

**#12 - 08/26/2019 04:31 PM - rchan**

- Sprint changed from Sprint 57 to Sprint 58

**#13 - 09/10/2019 08:53 PM - bmbouter**

- Status changed from NEW to ASSIGNED
- Assignee set to bmbouter

**#14 - 09/13/2019 04:59 PM - rchan**

- Sprint changed from Sprint 58 to Sprint 59

**#15 - 09/27/2019 12:55 PM - daviddavis**

- Sprint/Milestone set to 3.0

**#16 - 09/27/2019 03:46 PM - rchan**

- Sprint changed from Sprint 59 to Sprint 60

**#17 - 10/08/2019 12:06 AM - bmbouter**

- Status changed from ASSIGNED to POST

PR available at: <https://github.com/pulp/pulpcore/pull/331>

**#18 - 10/08/2019 09:52 PM - bmbouter**

- Status changed from POST to MODIFIED
- % Done changed from 0 to 100

Applied in changeset [pulpcore|b41a0923183c4316401349fb4f823b76433e9ed9](#).