

Migration Plugin - Task #5845

Story # 3821 (CLOSED - CURRENTRELEASE): As a user, I can migrate from Pulp 2 to Pulp 3

Update get_pulp3_repository_setup so repos are grouped by plugin type

12/06/2019 01:35 PM - ipanova@redhat.com

Status:	CLOSED - CURRENTRELEASE	Start date:	
Priority:	Normal	Due date:	
Assignee:	dalley	% Done:	100%
Category:		Estimated time:	0:00 hour
Sprint/Milestone:	0.1.0	Tags:	
Platform Release:		Sprint:	
Groomed:	No	Quarter:	
Sprint Candidate:	No		

Description

Motivation:

Repositories became typed, therefore for each incoming repo we need to identify it's type in order to migrate it https://github.com/pulp/pulp-2to3-migration/blob/master/pulp_2to3_migration/app/migration.py#L68

```
for pulp2repo in pulp2repos_qs:
    pulp3_repo_name = pulp2repo.pulp2_repo_id
    repository_class = PLUGIN_MIGRATORS.get(pulp2repo.type).pulp3_repository
    repo, created = repository_class.objects.get_or_create(
        name=pulp3_repo_name,
        description=pulp2repo.pulp2_description)
```

Identifying `repository_class` for each repo might have performance impact

In case we'd like to 'migrate' a repo to pulp3 that is not present in pulp2, or in other words - migrate pulp2 repo with new name in pulp3 we'd have troubles to find its `repository_class`

```
for pulp3_repo_name in repos_to_create:
    try:
        pulp2repo = pulp2repos_qs.get(pulp2_repo_id=pulp3_repo_name)
    except Pulp2Repository.DoesNotExist:
        description = pulp3_repo_name
    else:
        description = pulp2repo.pulp2_description

    repository_class = PLUGIN_MIGRATORS.get(pulp2repo.type).pulp3_repository
    repo, created = repository_class.objects.get_or_create(
        name=pulp3_repo_name,
        description=description)
```

https://github.com/pulp/pulp-2to3-migration/blob/master/pulp_2to3_migration/app/migration.py#L91

Solution

Having repos grouped by plugin type(iso, docker. rpm) would help to deal with above mentioned cases.

Update plan.get_pulp3_repository_setup() so it would have following structure:

```
{iso: {repoA : repo_data, repoB: repo_data}, docker: {repoA : repo_data, repoB: repo_data}}
```

Associated revisions

Revision 2dd9da11 - 01/07/2020 05:22 PM - dalley

Refactor migration plan parsing to keep track of plugin types

closes: #5845 <https://pulp.plan.io/issues/5845> closes: #5899 <https://pulp.plan.io/issues/5899>

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History

#1 - 12/06/2019 04:34 PM - fao89

- *Tracker changed from Issue to Task*

- *% Done set to 0*

- *Tags Pulp 2 to 3 Migrate added*

#2 - 12/06/2019 06:25 PM - ipanova@redhat.com

- *Parent task set to #3821*

#3 - 01/01/2020 03:42 AM - dalley

- *Status changed from NEW to ASSIGNED*

- *Assignee set to dalley*

#4 - 01/02/2020 05:03 AM - dalley

- *Status changed from ASSIGNED to POST*

<https://github.com/pulp/pulp-2to3-migration/pull/66>

In my PR I ended up doing something slightly different that I think will end up being much cleaner. Instead of getting a single "pulp3_repo_setup" structure which is discriminated by type, I modified all of the parsing code so that it creates many "plugin migration plans" which you acquire using the method "plan.get_plugin_plans()".

Each of those plugin migration plan objects keep track of all their {repositories to create/repositories/importers/distributors} separately instead of merging them all into one big list (although I kept the methods to get the complete lists). I noticed that we were looking up the "migrators" a lot, so the new object also makes the associated "migrator" (if it exists) an attribute, as well as whether the plan is "empty". That helped to clean up the code a lot and will hopefully allow it to be cleaned up more later.

#5 - 01/07/2020 05:56 PM - dalley

- *Status changed from POST to MODIFIED*

- *% Done changed from 0 to 100*

Applied in changeset [pulp-2to3-migration|2dd9da11c6e40fe74b12871722a2af78341fa4b3](https://pulp.plan.io/changesets/pulp-2to3-migration|2dd9da11c6e40fe74b12871722a2af78341fa4b3).

#6 - 01/14/2020 05:38 PM - ttereshc

- *Project changed from Pulp to Migration Plugin*

#7 - 03/25/2020 09:35 AM - ttereshc

- *Status changed from MODIFIED to CLOSED - CURRENTRELEASE*

- *Sprint/Milestone set to 0.1.0*

#8 - 05/22/2020 05:48 PM - bmbouter

- *Tags deleted (Pulp 2 to 3 Migrate)*

We're removing the 'Pulp 2 to 3 Migrate' tag to allow membership of the Migration Plugin project in Redmine to be the controlling area <https://pulp.plan.io/projects/migration>