

Pulp - Refactor #4206

Prepend all pulpcore model fields in the Content model hierarchy with _ (e.g. '_type', '_id', '_notes')

11/28/2018 03:58 PM - dalley

Status:	CLOSED - CURRENTRELEASE	Start date:	
Priority:	Normal	Due date:	
Assignee:	CodeHeeler	% Done:	0%
Category:		Estimated time:	0:00 hour
Sprint/Milestone:	3.0.0	Tags:	
Platform Release:		Sprint:	Sprint 47
Groomed:	Yes	Quarter:	
Sprint Candidate:	Yes		

Description

Motivations

1. Avoiding attribute naming collisions when content writer's subclass Content.
2. Allow users to easily see which attributes are from pulpcore and therefore common to all content types.

It was determined after long discussion here [0] that the solution to this should be to make sure all of the fields used by Pulpcore on models that are intended to be extended via the Plugin API are prepended with an underscore character.

Changes

Rename the Model fields here in the following ways:
<https://github.com/pulp/pulp/blob/d1dc089890f167617fe9917af087d5587708296b/pulpcore/pulpcore/app/models/base.py#L25-L27>

created -> _created
id -> _id
last_updated -> _last_updated

As well as the MasterModel "type" field here:
<https://github.com/pulp/pulp/blob/d1dc089890f167617fe9917af087d5587708296b/pulpcore/pulpcore/app/models/base.py#L80>

type -> _type

Also for the Content model itself:
<https://github.com/pulp/pulp/blob/f9707edde3201e61a454efc395ad2d3e3d628f9b/pulpcore/pulpcore/app/models/content.py#L117-L118>

notes -> _notes
artifacts -> _artifacts

After changing the field names, a lot of other code will need to be fixed likewise. Serializers and Django ORM queries will need to use the new names, to start with.

Details

This will be a backwards incompatible Beta change for both plugin writers and users. As such, the PR needs the 'breaking-changes', 'rest-API', and 'plugin-writer' labels.

As part of this issue, we should also switch to using 'pk' instead of 'id' in all Django ORM queries. 'pk' is a psuedonym for whatever the Primary Key field is set to, and will work no matter what said field is named. I would recommend searching for ".id", "id__in", and "id=" to make sure all of them are found, although that may not find all of them.

After making ^ change, go through pulp/pulp and update any references to the other field names.

After changing this in Pulpcore, we will need to go through each of the plugins (file, python, docker, rpm, ansible, + plugin_template) and do the same thing (replace usages of 'id' with 'pk' and other renamed fields with _field) in each of those. Link them back to this issue with "re" in the commit message.

[0] <https://www.redhat.com/archives/pulp-dev/2018-August/msg00019.html>

Related issues:

Blocks RPM Support - Refactor #4207: Rename "update_type" and "errata_id" to ...

CLOSED - CURRENTRELEASE

Blocks Pulp - Task #4067: Commit migrations to source control

CLOSED - CURRENTRELEASE

Associated revisions

Revision cf30f2e9 - 12/19/2018 09:29 PM - CodeHeeler

Prepend pulpcore Content model fields with _

Prepend all pulpcore model fields in the Content model hierarchy with _ (e.g. '_type', '_id', '_notes')

Required PR: https://github.com/pulp/pulp_file/pull/148

ref #4206 <https://pulp.plan.io/issues/4206>

Revision cf30f2e9 - 12/19/2018 09:29 PM - CodeHeeler

Prepend pulpcore Content model fields with _

Prepend all pulpcore model fields in the Content model hierarchy with _ (e.g. '_type', '_id', '_notes')

Required PR: https://github.com/pulp/pulp_file/pull/148

ref #4206 <https://pulp.plan.io/issues/4206>

Revision 349fdf8b - 12/19/2018 09:29 PM - CodeHeeler

Prepend Content model hierarchy with _

Prepend all pulpcore model fields in the Content model hierarchy with _ and do the same for all plugins reliant on them.

Required PR: <https://github.com/pulp/pulp/pull/3798>

re #4206 <https://pulp.plan.io/issues/4206>

Revision 342fe67b - 12/20/2018 02:03 AM - CodeHeeler

Prepend Content model hierarchy with _

Prepend all pulpcore model fields in the Content model hierarchy with _ and do the same for all plugins reliant on them.

Required PR: <https://github.com/pulp/pulp/pull/3798>

re #4206 <https://pulp.plan.io/issues/4206>

Revision 25c41c47 - 01/03/2019 05:05 PM - CodeHeeler

Prepend Content model hierarchy with _

Prepend all pulpcore model fields in the Content model hierarchy with _ and do the same for all plugins reliant on them.

Required PR: <https://github.com/pulp/pulp/pull/3798>

re #4206 <https://pulp.plan.io/issues/4206>

History

#1 - 11/28/2018 04:01 PM - dalley

A side effect of this change will be that accidentally using 'id' in a Django ORM query will not behave as intended. If this becomes a problem, I would suggest creating a lint tool that searches for this pattern and reminds the programmer to use 'pk' instead.

#2 - 11/28/2018 04:04 PM - dalley

- Description updated

#3 - 11/28/2018 04:08 PM - dalley

- Blocks Refactor #4207: Rename "update_type" and "errata_id" to "type" and "id", as they are named in createrepo_c added

#4 - 11/28/2018 04:13 PM - dalley

- Tags Pulp 3 RC Blocker added

#5 - 11/28/2018 04:43 PM - daviddavis

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

#6 - 11/28/2018 05:30 PM - jortel@redhat.com

- Sprint set to Sprint 46

#7 - 11/29/2018 02:24 AM - amacdona@redhat.com

It looks like <https://pulp.plan.io/issues/3704> is a dupe, but I'm not clear what the exact overlap is. Please have a look at both issues when assigning this one.

#8 - 11/29/2018 02:25 AM - amacdona@redhat.com

- Has duplicate Task #3704: Make MasterModel attributes private using leading underscores added

#9 - 11/29/2018 03:57 PM - dalley

- Description updated

#10 - 11/29/2018 04:34 PM - dalley

- Description updated

#11 - 11/29/2018 04:34 PM - dalley

- Has duplicate deleted (Task #3704: Make MasterModel attributes private using leading underscores)

#12 - 11/29/2018 04:37 PM - dalley

- Subject changed from Prepend all pulpcore model fields with _ (e.g. '_type', '_id', '_notes') to Prepend all plugin-api pulpcore model fields with _ (e.g. '_type', '_id', '_notes')

#13 - 11/29/2018 04:38 PM - dalley

- Subject changed from Prepend all plugin-api pulpcore model fields with _ (e.g. '_type', '_id', '_notes') to Prepend all pulpcore model fields in the Content model hierarchy with _ (e.g. '_type', '_id', '_notes')

#14 - 11/29/2018 04:51 PM - CodeHeeler

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

#15 - 12/05/2018 09:35 PM - daviddavis

- Blocks Task #4067: Commit migrations to source control added

#16 - 12/20/2018 12:01 AM - CodeHeeler

PR: <https://github.com/pulp/pulp/pull/3798>

#17 - 12/20/2018 03:24 PM - CodeHeeler

- Status changed from ASSIGNED to POST

#18 - 01/04/2019 10:19 PM - rchan

- Sprint changed from Sprint 46 to Sprint 47

#19 - 01/08/2019 11:41 PM - dalley

- Status changed from POST to MODIFIED

I think that should be everything. You updated file and python plugins and core, david updated RPM, I updated the plugin template and the ansible plugin, and the docker plugin didn't need anything done.

#20 - 04/25/2019 06:44 PM - daviddavis

- Sprint/Milestone set to 3.0.0

#21 - 04/26/2019 10:33 PM - bmbouter

- Tags deleted (*Pulp 3, Pulp 3 RC Blocker*)

#22 - 12/13/2019 06:10 PM - bmbouter

- Status changed from *MODIFIED* to *CLOSED* - *CURRENTRELEASE*