

Pulp - Issue #4653

Orphan cleanup fails for some model types due to database cascade PROTECTED options

04/08/2019 08:53 PM - bmbouter

| | | | |
|--------------------------|------------------|--------------------------|---------------|
| Status: | CLOSED - WONTFIX | Start date: | |
| Priority: | Normal | Due date: | |
| Assignee: | | Estimated time: | 0:00 hour |
| Category: | | Groomed: | No |
| Sprint/Milestone: | 3.0.0 | Sprint Candidate: | No |
| Severity: | 2. Medium | Tags: | Documentation |
| Version: | | Sprint: | |
| Platform Release: | | Quarter: | |
| OS: | | | |
| Triaged: | No | | |

Description

When orphan cleanup goes to run it can run into problems if there are model types that refer to each other for example both AnsibleRole and AnsibleRoleVersion relate to each other and are both content types. They could have been modeled differently, but they are modeled this way for now.

This means that because you can't delete an AnsibleRole that has AnsibleRoleVersions due to cascade.PROTECTED if orphan cleanup tries to delete AnsibleRole it will fail.

For example this is a traceback showing this problem (provided by [rochacbruno](#))

```
[root@fedora-29-pulp-3 ~]# systemctl status pulp-resource-manager --no-pager --full
● pulp-resource-manager.service - Pulp Resource Manager
   Loaded: loaded (/etc/systemd/system/pulp-resource-manager.service; enabled; vendor preset: disabled)
   Active: active (running) since Mon 2019-04-08 15:26:09 -03; 29min ago
 Main PID: 13446 (rq)
    Tasks: 1 (limit: 2351)
   Memory: 57.7M
    CGroup: /system.slice/pulp-resource-manager.service
            └─13446 /usr/local/lib/pulp/bin/python3 /usr/local/lib/pulp/bin/rq worker -w pulpcore.t
asking.worker.PulpWorker -n resource-manager@%h --pid=/var/run/pulp-resource-manager/resource-manage
ger.pid

Apr 08 15:28:36 fedora-29-pulp-3 rq[13446]: File "/usr/local/lib/pulp/lib64/python3.7/site-packa
ges/django/db/models/deletion.py", line 224, in collect
Apr 08 15:28:36 fedora-29-pulp-3 rq[13446]: field.remote_field.on_delete(self, field, sub_objs
, self.using)
Apr 08 15:28:36 fedora-29-pulp-3 rq[13446]: File "/usr/local/lib/pulp/lib64/python3.7/site-packa
ges/django/db/models/deletion.py", line 16, in CASCADE
Apr 08 15:28:36 fedora-29-pulp-3 rq[13446]: source_attr=field.name, nullable=field.null)
Apr 08 15:28:36 fedora-29-pulp-3 rq[13446]: File "/usr/local/lib/pulp/lib64/python3.7/site-packa
ges/django/db/models/deletion.py", line 224, in collect
Apr 08 15:28:36 fedora-29-pulp-3 rq[13446]: field.remote_field.on_delete(self, field, sub_objs
, self.using)
Apr 08 15:28:36 fedora-29-pulp-3 rq[13446]: File "/usr/local/lib/pulp/lib64/python3.7/site-packa
ges/django/db/models/deletion.py", line 27, in PROTECT
Apr 08 15:28:36 fedora-29-pulp-3 rq[13446]: sub_objs
Apr 08 15:28:36 fedora-29-pulp-3 rq[13446]: django.db.models.deletion.ProtectedError: ("Cannot del
ete some instances of model 'AnsibleRole' because they are referenced through a protected foreign
key: 'AnsibleRoleVersion.role'", <QuerySet [
<AnsibleRoleVersion: pk=dcf32b6a-b524-4941-ae8f-54b6f1e90023>,
<AnsibleRoleVersion: pk=057dd842-12b2-43e8-98c0-c75246073ed3>,
<AnsibleRoleVersion: pk=f6e96f34-431d-43b9-8534-4854bd1196c1>,
<AnsibleRoleVersion: pk=66adbbbbb-edca-44e9-bal8-e8359dfce98d>,
<AnsibleRoleVersion: pk=f98ac996-c60e-415b-affc-f5a8a5cd02e7>]>])
Apr 08 15:28:36 fedora-29-pulp-3 rq[13446]: pulp: rq.worker:WARNING: Moving job to 'failed' queue
```

Related issues:

History

#1 - 04/08/2019 08:59 PM - bmbouter

- Description updated

#2 - 04/08/2019 09:51 PM - mdellweg

See also

https://github.com/pulp/pulp_ansible/pull/84

#3 - 04/08/2019 10:03 PM - bmbouter

- Related to Issue #3818: The AnsibleRole as a content unit is problematic added

#4 - 04/09/2019 01:26 AM - daviddavis

- Project changed from Pulp to Ansible Plugin

#5 - 04/09/2019 03:11 PM - bmbouter

[daviddavis](#) I was thinking this would track a possible improvement in pulpcore itself. We need to consider two questions I think

- a) Are we supporting (or not) Content types that FK to each other?
- b) if we are how do we do that?

#6 - 04/09/2019 03:31 PM - daviddavis

I don't think we have any support for Content that has an FK to another Content.

#7 - 04/09/2019 04:16 PM - bmbouter

Before I knew about this bug I thought it was ok to have Content foreign key to Content, but with this problem I see now that we can't. I think all we need to do is add a section to the plugin writing docs on how you cannot model foreign key relationships between Content types together? What do you think?

#8 - 04/09/2019 05:04 PM - daviddavis

- Project changed from Ansible Plugin to Pulp

- Tags Documentation added

That works I think.

#9 - 04/09/2019 09:15 PM - bmbouter

I'm thinking of moving this to CLOSED - WONTFIX once this PR is merged: <https://github.com/pulp/pulpcore-plugin/pull/87>

#10 - 04/09/2019 09:31 PM - bmbouter

- Status changed from NEW to MODIFIED

Applied in changeset commit:pulpcore-plugin|f4e79c1eb4d62318daf661fb7c87b3ca427365ea.

#11 - 04/10/2019 04:10 PM - bmbouter

- Status changed from MODIFIED to CLOSED - WONTFIX

The attached commit only documents for plugin writers how they can avoid this problem. The status on this issue currently is WONTFIX.

#12 - 04/25/2019 06:44 PM - daviddavis

- Sprint/Milestone set to 3.0.0

#13 - 04/26/2019 10:30 PM - bmbouter

- Tags deleted (Pulp 3)