

Pulp - Task #8488

[EPIC] Upgrade to django 3.2

03/31/2021 09:01 PM - daviddavis

Status: NEW	Start date:
Priority: Normal	Due date:
Assignee:	% Done: 100%
Category:	Estimated time: 0:00 hour
Sprint/Milestone:	Tags:
Platform Release:	Sprint:
Groomed: No	Quarter:
Sprint Candidate: No	
Description	
See the subtasks for the identified work.	
Subtasks:	
Refactor # 8821: Have the content app make all of its ORM calls in another Threadpool e...	CLOSED - CURRENT
Task # 8975: Provide environment variables to permit Django ORM to work in an async con...	CLOSED - CURRENT
Task # 9018: Bump the pulpcore requirement to django 3.2	CLOSED - CURRENT
Task # 9112: Update `contrib.JSONField` to `JSONField`	CLOSED - CURRENT
Issue # 9120: Deprecation warning for RepositoryVersionContentDetails id	CLOSED - CURRENT
Task # 9121: Update `contrib.JSONField` to `JSONField`	CLOSED - DUPLICATI
Issue # 9129: Syncing is running out of DB connections	CLOSED - CURRENT
Issue # 9260: Syncing is running out of DB connections	CLOSED - CURRENT
Issue # 9283: Syncing is running out of DB connections	CLOSED - CURRENT
Task # 9171: Remove workaround in RemoteArtifactSaver now that we're on Django 3.2	CLOSED - CURRENT
Task # 9189: Update `contrib.JSONField` to `JSONField`	MODIFIED
Task # 9209: Update `contrib.JSONField` to `JSONField`	MODIFIED
Related issues:	
Blocked by Pulp - Task #8853: [EPIC] Drop support for Python 3.6	CLOSED - COMPLETE

History

#1 - 04/01/2021 03:43 AM - dalley

- Related to Refactor #6529: Pulp 3 may be using Django in an unsafe way (with async) added

#2 - 04/07/2021 03:03 PM - daviddavis

Here's my branch: <https://github.com/daviddavis/pulpcore/tree/django3>

Most of everything is working aside from the task code (more on this below). The django-guid package has a 3.x version which they recommend using since it supports ASGI. However, it does not support Python 3.6. But it appears that django-guid 2.2 is working for now.

The biggest change will be handling django's ORM in our async code. Django's ORM is not async safe and therefore you have to use `sync_to_async()[0]` when calling django's ORM (otherwise you get an error[1]).

Alternatively, there is a variable we can set `DJANGO_ALLOW_ASYNC_UNSAFE[2]` but I don't think we should go this route. From the django docs, it says, "do not use this in production environments".

[0] <https://docs.djangoproject.com/en/3.2/topics/async/#sync-to-async>

[1] "SynchronousOnlyOperation: You cannot call this from an async context - use a thread or sync_to_async"

[2] <https://docs.djangoproject.com/en/3.2/topics/async/#sync-to-async>

#3 - 05/11/2021 04:10 PM - dalley

The compatibility status of django-guardian is a little unclear still. They have it in their test matrix but there is an unmerged PR addressing some compatibility issue.

#4 - 05/24/2021 08:28 PM - daviddavis

[django-guardian 2.4.0 was released](#) and it claims support for django 3.2.

#5 - 05/25/2021 03:31 PM - bmbouter

- Sprint/Milestone set to 3.14.0

#6 - 05/25/2021 09:08 PM - bmbouter

- Subject changed from Upgrade to django 3.2 to [Epic] Upgrade to django 3.2

- Description updated

#7 - 05/25/2021 09:08 PM - bmbouter

- Related to deleted (Refactor #6529: Pulp 3 may be using Django in an unsafe way (with async))

#8 - 06/02/2021 05:38 PM - daviddavis

- Related to Task #8853: [EPIC] Drop support for Python 3.6 added

#9 - 06/02/2021 06:15 PM - bmbouter

- Related to deleted (Task #8853: [EPIC] Drop support for Python 3.6)

#10 - 06/02/2021 06:15 PM - bmbouter

- Blocked by Task #8853: [EPIC] Drop support for Python 3.6 added

#11 - 06/02/2021 06:40 PM - daviddavis

- Sprint/Milestone changed from 3.14.0 to 3.15.0

#12 - 06/28/2021 11:31 PM - dalley

- Sprint/Milestone deleted (3.15.0)

We don't really need both the epic and the subtask, closing the subtask, making this one the "real" issue.

#13 - 06/28/2021 11:31 PM - dalley

- Subject changed from [Epic] Upgrade to django 3.2 to Upgrade to django 3.2

- Sprint/Milestone set to 3.15.0

#14 - 07/22/2021 04:00 PM - bmbouter

- Subject changed from Upgrade to django 3.2 to [EPIC] Upgrade to django 3.2

#15 - 08/23/2021 05:30 PM - daviddavis

- Sprint/Milestone deleted (3.15.0)

Removing from 3.15 since the subtask that needs to block 3.15 is already assigned to 3.15.