

Pulp - Story #4366

As a plugin writer, I have special purpose Content Serializers for content types that have 0, 1, or many artifacts per content

01/30/2019 08:36 PM - dalley

Status: MODIFIED	Start date:
Priority: Normal	Due date:
Assignee: dalley	% Done: 0%
Category:	Estimated time: 0:00 hour
Sprint/Milestone: 3.0	QA Contact:
Platform Release:	Complexity:
Blocks Release:	Smash Test:
Backwards Incompatible: No	Verified: No
Groomed: Yes	Verification Required: No
Sprint Candidate: No	Sprint: Sprint 48
Tags:	
Description	
<p>The "_artifacts" field is rather difficult to use from a user perspective, and is also over-generalized. Nearly all currently existing Pulp 3 plugins have a single artifact per content unit, and carry around boilerplate code to replace the "_artifacts" (plural) serializer field with a singular version, in order to avoid the usability issues that comes with it.</p> <p>This boilerplate is not ideal, and errors found in it (such as [0]) must be made against many, many plugins.</p> <p>There are also additional common invariants, such as Content without any Artifacts, which should be handled in a more explicit way without any plugin writer boilerplate.</p> <p>To fix this, we propose the following changes to the plugin API:</p> <ul style="list-style-type: none">• The current "ContentSerializer" will be renamed to MultiArtifactContentSerializer• A new "SingleArtifactContentSerializer" will be defined, which has an "_artifact" field, which lists a single artifact• A new "NoArtifactContentSerializer" will be defined, which lacks any field related to Artifacts <p>Plugin writers will inherit their own content serializers from the one most closely matching their needs.</p> <p>The one used in plugin_template by default will be the SingleArtifactContentSerializer, with a FIXME instruction added.</p> <p>This should also be documented in the plugin writer docs.</p> <p>[0] https://pulp.plan.io/issues/4340</p>	
Related issues:	
Duplicates File Support - Task #4282: Rename 'artifact' to '_artifact'	CLOSED - DUPLICATE

Associated revisions

Revision 2edd845f - 01/31/2019 08:45 PM - dalley

Add custom serializers for "_artifact" vs "_artifacts"

Remove boilerplate from the plugins by defining new, more specialized serializers for the single-artifact-per-content case, the multiple-artifacts-per-content case, and the no-artifacts-per-content case.

Required PR: https://github.com/pulp/pulp_file/pull/159

Required PR: <https://github.com/pulp/pulp/pull/3846>

Required PR: <https://github.com/PulpQE/pulp-smash/pull/1164>

re: #4366

<https://pulp.plan.io/issues/4366>

Revision 8c793f8a - 01/31/2019 09:21 PM - dalley

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Revision c9d4c734 - 01/31/2019 09:56 PM - dalley

Remove _artifact vs. _artifacts boilerplate

Required PR: <https://github.com/pulp/pulp/pull/3846>

Required PR: <https://github.com/PulpQE/pulp-smash/pull/1164>

Required PR: <https://github.com/pulp/pulpcore-plugin/pull/38>

closes: #4340

<https://pulp.plan.io/issues/4340>

re: #4366

<https://pulp.plan.io/issues/4366>

Revision 3189b1f9 - 02/01/2019 08:30 PM - dalley

Update the plugin writer guide for serializer changes

re: #4366

<https://pulp.plan.io/issues/4366>

Revision d503518d - 02/01/2019 11:42 PM - dalley

Use new specialized serializers

re: #4366

<https://pulp.plan.io/issues/4366>

Revision 4376e5c8 - 02/05/2019 08:31 PM - dalley

Update to use specialized serializers

re: #4366

<https://pulp.plan.io/issues/4366>

Revision 3b05da47 - 02/11/2019 07:20 PM - dalley

Use new specialized serializers

re: #4366

<https://pulp.plan.io/issues/4366>

History

#1 - 01/30/2019 08:39 PM - bmbouter

+1 this looks like exactly what we talked about. Thanks so much for writing this up.

#2 - 01/30/2019 09:51 PM - dalley

- Checklist item [] Add support to pulpcore added
- Checklist item [] Fix pulp_file added
- Checklist item [] Fix plugin_template added
- Checklist item [] Fix pulp_rpm added
- Checklist item [] Fix pulp_python added
- Checklist item [] Fix pulp_docker added
- Checklist item [] Fix pulp_ansible added

Pulpcore: <https://github.com/pulp/pulp/pull/3846>

Pulp file: https://github.com/pulp/pulp_file/pull/159

#3 - 01/30/2019 09:55 PM - dalley

- Duplicates Task #4282: Rename 'artifact' to '_artifact' added

#4 - 01/30/2019 10:08 PM - dalley

Pulp Smash PR <https://github.com/PulpQE/pulp-smash/pull/1164> (by Pavel)

Pulpcore plugin PR <https://github.com/pulp/pulpcore-plugin/pull/38>

#5 - 01/31/2019 09:48 PM - amacdona@redhat.com

- Checklist item [] Update plugin writer's guide added

#6 - 01/31/2019 09:59 PM - dalley

- Checklist item [x] Fix pulpcore-plugin added

Checklist item [x] Fix pulp-smash added

Checklist item [x] Add support to pulpcore set to Done

Checklist item [x] Fix pulp_file set to Done

- Status changed from ASSIGNED to POST

#7 - 02/01/2019 05:12 PM - dalley

- Checklist item [x] Fix plugin_template set to Done

#8 - 02/01/2019 06:47 PM - dalley

- Checklist item [x] Update plugin writer's guide set to Done

Plugin writer guide

<https://github.com/pulp/pulpcore-plugin/pull/39>

Template

https://github.com/pulp/plugin_template/pull/29/

#9 - 02/01/2019 07:49 PM - dalley

- Checklist item [x] Fix pulp_rpm set to Done

Pulp RPM: https://github.com/pulp/pulp_rpm/pull/1260

#10 - 02/04/2019 08:49 PM - dalley

- Checklist item [x] Fix pulp_python set to Done

Pulp Python https://github.com/pulp/pulp_python/pull/219

#11 - 02/05/2019 08:35 PM - dalley

- Checklist item [x] Fix pulp_docker set to Done

Checklist item [x] Fix pulp_ansible set to Done

- Status changed from POST to MODIFIED

Ansible: https://github.com/pulp/pulp_ansible/pull/75

Docker https://github.com/pulp/pulp_docker/pull/306

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

- *Sprint/Milestone set to 3.0*

#13 - 04/26/2019 10:32 PM - bmbouter

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