

Pulp - Task #5004

migrate travis plugin-template to installing pulp in containers

06/21/2019 01:17 AM - dkliban@redhat.com

Status:	CLOSED - COMPLETE	Start date:	
Priority:	Normal	Due date:	
Assignee:	mdepaulo@redhat.com	% Done:	100%
Category:		Estimated time:	0:00 hour
Sprint/Milestone:		Tags:	Plugin Template
Platform Release:		Sprint:	Sprint 58
Groomed:	Yes	Quarter:	
Sprint Candidate:	Yes		
Description			
Some plugins can't be installed on Ubuntu. Therefore, the travis logic in plugin-template needs to install in (Fedora 30) containers rather than directly on the Travis Ubuntu host. Four instances of this container should be started as the following services: pulp-api, pulp-content-app, pulp-resource-manager, and pulp-worker@0. pulp-smash tests should then be executed against these containers. pulpcore / pulp_rpm should be initially migrated to using containers for Travis CI.			
Related issues:			
Blocked by Pulp - Task #5069: Build pulp 3 containers		CLOSED - COMPLETE	

Associated revisions

Revision ac2eae68 - 08/28/2019 07:28 PM - dkliban@redhat.com

Problem: consume content test fails on k8s

Solution: use dnf config-manager to add repository to client

With new cleanup behavior as well.

[noissue]

re: #5004 "extend travis config to support installing pulp in containers" <https://pulp.plan.io/issues/5004>

Revision 979356bf - 08/28/2019 07:28 PM - Mike DePaulo

Use (Fedora 30) containers for CI.

Based on the branch of plugin-template "use-containers-for-CI", which is not ready to be merged yet. However, the pulp_rpm devs need these changes ASAP since their CI cannot work on Travis Ubuntu hosts anymore.

[noissue]

re: #5004 "extend travis config to support installing pulp in containers" <https://pulp.plan.io/issues/5004>

Revision 7a1ef541 - 08/28/2019 07:29 PM - Mike DePaulo

Add a pulp-smash-config.json

because the use-containers-for-CI pulpcore branch is not ready to be merged yet.

[noissue]

re: #5004 "extend travis config to support installing pulp in containers" <https://pulp.plan.io/issues/5004>

Revision 20e2315b - 08/30/2019 09:04 PM - Mike DePaulo

Use containers for Travis CI

Fixes: #5004 migrate travis plugin-template to installing pulp in containers <https://pulp.plan.io/issues/5004>

re: #5069 <https://pulp.plan.io/issues/5069> Create pulpcore and pulp_file container images automatically via CI

Implementation includes:

Disabling codecov for the time being.

Only test on Python 3.7 for now, because Fedora 30 has only secondary support for Python 3.6, and it would require multiple changes to test against.

Fix using required PRs for pulp-smash.

Use pulp-smash master branch by default rather than stable release.

Use docker as provided by Travis (rather than k3s containerd).

Generate pulpcore/containers/var/vars.yaml, and build the container image with the plugin & pulp-certguard.

Clone pulp-operator for its scripts to deploy k3s & the operator- managed containers, and run those deployment scripts.

Generate a pulp-operator custom-reource with the settings needed for testing. (It must be generated because it points to the image name like "pulp_rpm" rather than "pulp".)

Use sudo kubectl exec as a method for running commands in the pulp-api container, \$CMD_PREFIX .

Use \$CMD_PREFIX to run the unit tests.

Install packages needed only for testing in the pulp-api container as it runs.

script.sh: Wait for the content app to become online.

Move as much of the show_logs_and_return_non-zero logic to travis.yml after_failure

Make func_test_script.sh able to use show_logs_and_return_non_zero

Add some pulp_rpm specific debug to show_logs_and_return_non_zero

Add more after_failure lines, misc cleanup &, formatting fixes.

Delete the old CI ansible-pulp playbooks.

Accomodate pulp_rpm needing pulp-smash-config.json, but the pulpcore PR is not ready yet.

Problem: CONTENT_HOST not set when deploying pulp-api Solution: add content_host to the CR used by pulp-operator re: #5138 <https://pulp.plan.io/issues/5138>

Revision 8a368e86 - 08/30/2019 09:23 PM - Mike DePaulo

Use containers for CI

re: #5004 migrate travis plugin-template to installing pulp in containers <https://pulp.plan.io/issues/5004>

re: #5069 <https://pulp.plan.io/issues/5069> Create pulpcore and pulp_file container images automatically via CI

Implementation includes: Based off of new plugin-template Fixing pulp_file functional test failures by setting PYTHONPATH Fix missing deps from doc_requirements.txt Updating pulp-smash-config.json for the password and kubectl.

[noissue]

Revision d925f6e1 - 09/03/2019 10:49 PM - Mike DePaulo

Problem: Travis does no builds when the build matrix has 1 build

build matrix for us == Python versions * (docs + bindings + pulp)

Solution: Add a stub implicit job called "test" when there is only the TEST=pulp build.

[noissue]

Fixes a regression introduced as part of: re: #5004 <https://pulp.plan.io/issues/5004> "migrate travis plugin-template to installing pulp in containers"

Revision 954dd954 - 09/03/2019 11:18 PM - Mike DePaulo

Problem: travis config out of date

And the plugin-template's big change of using containers should be tested with pulp_file.

Solution: update using plugin template

Implementation Includes: Problem: template plugin_name fix: file -> pulp_file update Travis .netrc for new default password Cleanup ansible-pulp playbooks

[noissue]

re: #5004 <https://pulp.plan.io/issues/5004> migrate travis plugin-template to installing pulp in containers

History

#1 - 06/21/2019 01:18 AM - dkliban@redhat.com

- Tracker changed from Issue to Task

- % Done set to 0

- Tags Plugin Template added

#2 - 06/21/2019 09:20 AM - ttereshc

- Description updated

- Groomed changed from No to Yes

- Sprint Candidate changed from No to Yes

#3 - 06/21/2019 03:31 PM - ttereshc

- Sprint set to Sprint 55

#4 - 06/21/2019 03:38 PM - amadonna@redhat.com

There are a couple things that aren't clear to me. Should the ansible-installer be building containers or does the description mean that the ansible installer will be running against containers?

The goal of this work makes sense, but the implementation is not clear to me. We've added to the sprint, but some extra detail would be helpful.

#5 - 06/21/2019 05:32 PM - mdepaulo@redhat.com

I think the idea is to use the containers instead of the ansible installer.

While this is a good idea, keep in mind the following:

1. Normally the plugins are baked in at image build time. You might want to use existing images (from pulpcore's eventual CI), and then update/install them as a new layer.
2. Coordination needs to happen for the 4 containers (1 for each pulp service) to work outside of Kubernetes / operator framework. It is reasonable to write, but still.
3. I think we should wait until the container/operator work is far enough along that that we do build images from Pulpcore's CI. Alternatively, we could just manually build & upload images for every rc / release of pulp 3, and you'll update/install the rpm plugin during the CI.
4. If the only dependency missing on debian/ubuntu is createrepo_c, it presumably wouldn't be that much work to package it. They already have createrepo & rpm packaged, and are therefore not opposed to such packages being included.

#6 - 06/21/2019 05:50 PM - mdepaulo@redhat.com

Also, if you want to see what you'd be layering on top of, see this:

<https://github.com/pulp/pulpcore/blob/master/containers/images/pulp-api/Dockerfile>

(The other 3 containers are based on it, with slight differences.)

For example, the `makemigrations` and `migrate` are not run until the container is run.

#7 - 06/26/2019 11:33 PM - daviddavis

- Status changed from NEW to ASSIGNED

- Assignee set to daviddavis

#8 - 06/26/2019 11:41 PM - mdepaulo@redhat.com

dkliban and I met today about this:

1. I'm briefly pursuing building libmodulemd on Ubuntu ([already in a 3rd party PPA](<https://launchpad.net/~directhex/+archive/ubuntu/mock-dnf>)) and createrepo_c on an Ubuntu PPA. If nothing else, this will be a quick fix to get Travis working, and will inform the next steps.
2. Next I'll look into the feasibility of using 1 image for all 4 containers (services/processes.)
3. After that, I'll probably start reworking the existing container images and develop a script so that they work without the K8s operator.
4. Long run goal: A "pulpcore" image (possibly with pulp_file), an image for each plugin to be tested in, and an image with the set of all (known) working plugins known as just "pulp".

Note that I am putting my Fedora packaging work on hold for this, because it seems like the team needs it.

#9 - 06/28/2019 05:33 PM - mdepaulo@redhat.com

I decided to not spend any more time trying to make createrepo_c build on Ubuntu 16.04, but I did post my progress so far.

https://github.com/mikedep333/createrepo_c/tree/debian-packaging

It is running into an issue with glib, I think the old version of cmake is also a factor.

Even if I got it to build, I would have to separately package zchunk & deltarpm for them to be supported.

#10 - 06/28/2019 06:01 PM - mdepaulo@redhat.com

It is possible to use 1 image for all 4 containers (services/processes):

<https://medium.com/@oprearocks/how-to-properly-override-the-entrypoint-using-docker-run-2e081e5feb9d>
<https://kubernetes.io/docs/reference/generated/kubernetes-api/v1.14/#container-v1-core>

I'm going to ask Eric Helms what he thinks 1st as a precaution.

#11 - 07/02/2019 05:00 PM - daviddavis

- *Blocked by Task #5069: Build pulp 3 containers added*

#12 - 07/12/2019 03:20 PM - mdepaulo@redhat.com

- *Assignee changed from daviddavis to mdepaulo@redhat.com*

Re-assigning to myself, but daviddavis will still help.

#13 - 07/12/2019 03:27 PM - dkliban@redhat.com

- *Sprint changed from Sprint 55 to Sprint 56*

#14 - 08/02/2019 03:15 PM - rchan

- *Sprint changed from Sprint 56 to Sprint 57*

#15 - 08/26/2019 04:32 PM - rchan

- *Sprint changed from Sprint 57 to Sprint 58*

#16 - 08/29/2019 08:00 PM - mdepaulo@redhat.com

- *% Done changed from 0 to 80*

After making extensive changes (including to pulp-smash), pulp_rpm is now using the plugin_template generated code to run tests in CI. The initial PR is merged to pulp_rpm. However, it is using it from the "use-containers-for-CI" branch / PR for plugin_template.

However, some of the other publish scripts are still broken.

And pulp_rpm images are not auto-published yet.

And the pulp_rpm image is being entirely built every time, rather than being layered on a (not-yet-published) pulpcore image when none of the pulpcore image (pulpcore, pulpcore-plugin) have PR.

Work is still ongoing for <https://pulp.plan.io/issues/5062> for pulpcore support in plugin_template

#17 - 08/30/2019 07:53 PM - mdepaulo@redhat.com

- *Subject changed from extend travis config to support installing pulp in containers to migrate travis plugin-template to installing pulp in containers*

#18 - 08/30/2019 07:56 PM - mdepaulo@redhat.com

- *Description updated*

#19 - 08/30/2019 10:23 PM - Anonymous

- *Status changed from ASSIGNED to MODIFIED*

- *% Done changed from 80 to 100*

Applied in changeset [plugin_template|20e2315bbc3f8c8ca2f66e308f4dc4a3eb4f9d99](https://pulp.plan.io/changeset/20e2315bbc3f8c8ca2f66e308f4dc4a3eb4f9d99).

#20 - 09/03/2019 04:28 PM - mdepaulo@redhat.com

- *% Done changed from 100 to 80*

Technically not 100% yet, because the plugin-template should:

1. Use pulpcore images unless there's a need to build them
2. Publish the content plugin images.

#21 - 09/03/2019 07:33 PM - mdepaulo@redhat.com

- Status changed from MODIFIED to 5

- % Done changed from 80 to 100

The remaining work was moved into a new Epic:

<https://pulp.plan.io/issues/5393>

#22 - 09/04/2019 10:21 PM - mdepaulo@redhat.com

- Status changed from 5 to CLOSED - COMPLETE

Multiple plugins now migrated successfully.