

Docker Support - Issue #1404

Sync from un-namespaced V2 repository fails

12/09/2015 05:14 PM - twaugh

Status: CLOSED - CURRENTRELEASE	Start date:
Priority: High	Due date:
Assignee: amacдона@redhat.com	Estimated time: 0:00 hour
Category:	
Sprint/Milestone:	
Severity: 3. High	Groomed: No
Version - Docker: master	Sprint Candidate: No
Platform Release:	Tags: Pulp 2
Target Release - Docker: 2.0.0	Sprint:
OS:	Quarter:
Triaged: Yes	

Description

When attempting to sync an un-namespaced repository from a V2 registry, the sync fails with 'Not found'.

With V1 registries there was a default namespace of 'library', so 'docker pull myimage' would really be pulling 'library/myimage'.

I don't believe this to be the case with V2. Whereas the V1 API was specified in terms of /v1/<namespace>/<repository>/..., the V2 API is specified in terms of /v2/<name>/... .

As a result, when pulp-docker adds the 'library/' prefix, this fails with V2 registries.

Related issues:

Related to Docker Support - Story #1454: As a user, I can sync v2 content fro...	CLOSED - CURRENTRELEASE
Blocked by Docker Support - Story #1144: As a user, I can sync from a v2 regi...	CLOSED - CURRENTRELEASE

Associated revisions

Revision 620f8d60 - 02/05/2016 09:19 PM - pcreech

Add library namespace to docker hub images

Add library namespace to docker hub registry images that do not have one.

closes #1404 <https://pulp.plan.io/issues/1404>

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History

#1 - 12/11/2015 04:47 PM - mhrivnak

- Priority changed from Normal to High
- Severity changed from 2. Medium to 3. High
- Target Release - Docker set to 2.0.0
- Triaged changed from No to Yes

#2 - 01/22/2016 09:41 PM - amacdona@redhat.com

- Status changed from NEW to ASSIGNED
- Assignee set to amacdona@redhat.com

#3 - 01/25/2016 10:28 PM - amacdona@redhat.com

- Blocked by Story #1144: As a user, I can sync from a v2 registry that requires RFC7235 authorization headers added

#4 - 01/25/2016 10:36 PM - amacdona@redhat.com

As far as I can tell, `/v2/<name/` is the same as the `/v1/<namespace>/<repository>`. In the case that there is no namespace, Docker hub still hosts the content at `library/<repository>`, so I am assuming that `<name> = <namespace>/<repository>`

Neither will correctly work at the moment due to the auth bug, but on the branch that is fixing that:

This will sync correctly:

```
pulp-admin docker repo create --repo-id=busybox --feed=https://registry-1.docker.io --upstream-name=library/busybox
```

This will not sync correctly:

```
pulp-admin docker repo create --repo-id=busybox --feed=https://registry-1.docker.io --upstream-name=busybox
```

To fix this, we have some options.

1. upstream-name could be required to have a namespace. I think this is not ideal, since docker itself doesn't require this and assumes `library/<repo>` if a namespace is not provided.
2. We can prepend "library/" to self.name here: https://github.com/pulp/pulp_docker/blob/master/plugins/pulp_docker/plugins/registry.py#L290 This would be my preference, but I am unsure if this would have unintended consequences elsewhere. Specifically I am curious why for v1 this is only done in the `get_tags` function. This works with the busybox repo example above.
3. We could prepend "library/" where it is needed. At least `get_tags`.

#5 - 01/26/2016 09:49 AM - tvaugh

So, for Docker Hub, adding "library" will work because Docker Hub is special.

For other Distribution instances, or other implementations, adding "library" will **not** work. "busybox" and "library/busybox" reference different repositories, except as a special case on Docker Hub.

That's what this bug is about: when syncing from a V2 registry, "library" is always added and that is incorrect.

To be clear: correct behaviour would be for `pulp_docker` to be requesting `/v2/busybox/` when upstream-name is busybox. The current incorrect behaviour is that it requests `/v2/library/busybox/`.

#6 - 01/26/2016 10:01 AM - tvaugh

See also <https://github.com/openshift/origin/issues/6570>, where a similar bug was also fixed.

#7 - 01/28/2016 06:50 PM - amacdona@redhat.com

- Related to Story #1454: As a user, I can sync v2 content from docker hub added

#8 - 02/05/2016 04:19 PM - amacdona@redhat.com

- Assignee changed from amacdona@redhat.com to pcreech

#9 - 02/05/2016 09:29 PM - pcreech

- Status changed from ASSIGNED to POST

https://github.com/pulp/pulp_docker/pull/129

#10 - 02/08/2016 03:04 PM - pcreech

- Status changed from POST to MODIFIED
- % Done changed from 0 to 100

Applied in changeset [620f8d6031e35ba1debc45cc77d52d1b4387db90](#).

#11 - 02/17/2016 10:59 PM - amadonna@redhat.com

- Status changed from MODIFIED to NEW
- Triaged changed from Yes to No

Reopening due to <https://pulp.plan.io/issues/1685>.

We probably need to adjust the code that fixed this originally.

#12 - 02/18/2016 02:52 AM - rbarlow

Pulp wrote:

Reopening due to <https://pulp.plan.io/issues/1685>.

We probably need to adjust the code that fixed this originally.

Good catch Austin, I would have forgotten about this!

--

Randy Barlow
irc: bowlofeggs

#13 - 02/18/2016 10:53 PM - amadonna@redhat.com

- Status changed from NEW to ASSIGNED
- Assignee changed from pcreech to amadonna@redhat.com

#14 - 02/19/2016 04:37 PM - mhrivnak

- Triaged changed from No to Yes

#15 - 02/22/2016 09:26 PM - amadonna@redhat.com

There was some behavior change at the dockerhub endpoints, but it turns out that we do not need to change anything on our end as far as namespacing the repos goes.

#16 - 02/22/2016 09:26 PM - amadonna@redhat.com

- Status changed from ASSIGNED to MODIFIED

#17 - 03/03/2016 07:14 PM - dkliban@redhat.com

- Status changed from MODIFIED to 5

#18 - 05/27/2016 07:24 PM - semyers

- Status changed from 5 to CLOSED - CURRENTRELEASE

#19 - 04/15/2019 10:40 PM - bmbouter

- Tags Pulp 2 added