

Crane - Refactor #3303

v2.py: Accept header handling is sketchy

01/19/2018 02:21 AM - mihai.ibanescu@gmail.com

Status:	CLOSED - CURRENTRELEASE	Start date:	
Priority:	Normal	Due date:	
Assignee:	mihai.ibanescu@gmail.com	% Done:	100%
Category:		Estimated time:	0:00 hour
Sprint/Milestone:		Tags:	Pulp 2
Platform Release:	2.15.1	Sprint:	
Target Release - Crane:		Quarter:	
Groomed:	No		
Sprint Candidate:	No		

Description

Docker engines typically present more than one Accept: header (usually three).

While they are three different lines in the HTTP header, they typically get combined as a single value, comma-separated.

Crane has a bunch of if/then/else logic that looks like:

```
accept_headers = request.headers.get('Accept')
schema2_mediatype = 'application/vnd.docker.distribution.manifest.v2+json'
manifest_list_mediatype = 'application/vnd.docker.distribution.manifest.list.v2+json'
if manifest_list_mediatype in accept_headers ...:
    ...
```

That is essentially the equivalent of evaluating:

```
"val1" in "val1, val2, val3"
```

and boils down to string matching.

I find it dangerous, because "val" in "val1, val2, val3" is also True.

It just so happens that the Docker engine is civilized enough to present the right values.

A much better solution would be something like:

```
accept_headers = accept_headers.split(",") if accept_headers else []
accept_headers = set(x.strip() for x in accept_headers)
```

Associated revisions

Revision cf972a36 - 01/22/2018 02:51 PM - Mihai Ibanescu

Safer handling of Accept headers

closes #3303 <https://pulp.plan.io/issues/3303>

Revision 0553c802 - 01/22/2018 05:08 PM - Mihai Ibanescu

Safer handling of Accept headers

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(cherry picked from commit cf972a363b8c25323a1e53c831749537268f0a3a)

History

#1 - 01/19/2018 02:49 AM - mihai.ibanescu@gmail.com

PR: <https://github.com/pulp/crane/pull/84>

#2 - 01/19/2018 02:51 AM - mihai.ibanescu@gmail.com

- Description updated

#3 - 01/19/2018 04:53 PM - dkliban@redhat.com

- Status changed from NEW to POST

- Assignee set to mihai.ibanescu@gmail.com

<https://github.com/pulp/crane/pull/84>

#4 - 01/19/2018 04:57 PM - dalley

- Tracker changed from Issue to Refactor

- % Done set to 0

#5 - 01/22/2018 02:51 PM - Anonymous

- Status changed from POST to MODIFIED

- % Done changed from 0 to 100

Applied in changeset [cf972a363b8c25323a1e53c831749537268f0a3a](#).

#6 - 01/22/2018 04:51 PM - pcreech

- Platform Release set to 2.15.1

#7 - 01/24/2018 03:30 PM - pcreech

- Status changed from MODIFIED to 5

#8 - 01/30/2018 08:20 PM - pcreech

- Status changed from 5 to CLOSED - CURRENTRELEASE

#9 - 04/15/2019 10:13 PM - bmbouter

- Tags Pulp 2 added