

## Container Support - Story #4737

As a user I can sync from a docker repo published by Pulp

04/25/2019 01:55 PM - ipanova@redhat.com

<b>Status:</b>	CLOSED - CURRENTRELEASE	<b>Start date:</b>	
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	ipanova@redhat.com	<b>% Done:</b>	100%
<b>Category:</b>		<b>Estimated time:</b>	0:00 hour
<b>Sprint/Milestone:</b>	1.0.0	<b>Tags:</b>	
<b>Platform Release:</b>		<b>Sprint:</b>	Sprint 57
<b>Groomed:</b>	No	<b>Quarter:</b>	
<b>Sprint Candidate:</b>	No		
<b>Description</b>			
Confirm it works as expected. Fix in case of malfunction. - test sync with pulp3 from pulp2 - test sync with pulp3 from pulp3			

### Associated revisions

**Revision 8f4e8b43 - 08/15/2019 03:05 PM - ipanova@redhat.com**

As a user I can sync from a docker repo published by Pulp.

closes #4737 <https://pulp.plan.io/issues/4737>

**Revision 8f4e8b43 - 08/15/2019 03:05 PM - ipanova@redhat.com**

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**Revision 8f4e8b43 - 08/15/2019 03:05 PM - ipanova@redhat.com**

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### History

**#1 - 06/07/2019 07:04 PM - ipanova@redhat.com**

- Description updated

**#2 - 08/13/2019 06:12 PM - ipanova@redhat.com**

- Status changed from NEW to ASSIGNED

- Assignee set to ipanova@redhat.com

- Sprint set to Sprint 57

**#3 - 08/13/2019 06:21 PM - ipanova@redhat.com**

Tested pulp2 to pulp3 sync

```
$ pulp-admin docker repo create --repo-id pulp-docker --feed https://registry-1.docker.io/ --upstream-name pulp/test-fixture-1
Repository [pulp-docker] successfully created
```

```
$ pulp-admin docker repo sync run --repo-id pulp-docker
+-----+
Synchronizing Repository [pulp-docker]
```

+-----+

This command may be exited via ctrl+c without affecting the request.

Downloading manifests

[|]  
... completed

Copying units already in pulp

[-]  
... completed

Copying units already in pulp

[-]  
... completed

Downloading remote files

[=====] 100%  
10 of 10 items  
... completed

Saving Manifests and Blobs

[-]  
... completed

Saving Tags

[=====] 100%  
18 of 18 items  
... completed

Task Succeeded

Task Succeeded

```
$ http POST http://localhost:24817/pulp/api/v3/repositories/ name=foo_pulp
```

HTTP/1.1 201 Created

Allow: GET, POST, HEAD, OPTIONS

Connection: close

Content-Length: 273

Content-Type: application/json

Date: Tue, 13 Aug 2019 16:05:39 GMT

Location: /pulp/api/v3/repositories/9490efab-5953-4673-9c67-0aaa15504f35/

Server: gunicorn/19.9.0

Vary: Accept, Cookie

X-Frame-Options: SAMEORIGIN

```
{
  "_created": "2019-08-13T16:05:39.371511Z",
  "_href": "/pulp/api/v3/repositories/9490efab-5953-4673-9c67-0aaa15504f35/",
  "_latest_version_href": null,
  "_versions_href": "/pulp/api/v3/repositories/9490efab-5953-4673-9c67-0aaa15504f35/versions/",
  "description": null,
  "name": "foo_pulp"
}
```

```
$ http POST http://localhost:24817/pulp/api/v3/remotes/docker/docker/ name='pulp-docker' upstream_name='pulp-d
```

```
ocker' url='http://localhost:5000/' policy='on_demand'
```

HTTP/1.1 201 Created

Allow: GET, POST, HEAD, OPTIONS

Connection: close

Content-Length: 466

Content-Type: application/json

Date: Tue, 13 Aug 2019 16:07:04 GMT

Location: /pulp/api/v3/remotes/docker/docker/2003a9ab-d48a-4da5-b048-6b2905f86b87/

Server: gunicorn/19.9.0

Vary: Accept, Cookie

X-Frame-Options: SAMEORIGIN

```
{
  "_created": "2019-08-13T16:07:04.604251Z",
  "_href": "/pulp/api/v3/remotes/docker/docker/2003a9ab-d48a-4da5-b048-6b2905f86b87/",
  "_last_updated": "2019-08-13T16:07:04.604267Z",
  "_type": "docker.docker",
  "download_concurrency": 20,
  "name": "pulp-docker",
}
```

```
  "policy": "on_demand",
  "proxy_url": null,
  "ssl_ca_certificate": null,
  "ssl_client_certificate": null,
  "ssl_client_key": null,
  "ssl_validation": true,
  "upstream_name": "pulp-docker",
  "url": "http://localhost:5000/v2/",
  "whitelist_tags": null
}
```

```
(pulp) [vagrant@pulp2-nightly-pulp3-source-centos7 pulpcore]$ http POST ':24817/pulp/api/v3/remotes/docker/docker/2003a9ab-d48a-4da5-b048-6b2905f86b87/sync/' repository=/pulp/api/v3/repositories/9490efab-5953-4673-9c67-0aaa15504f35/
HTTP/1.1 202 Accepted
Allow: POST, OPTIONS
Connection: close
Content-Length: 67
Content-Type: application/json
Date: Tue, 13 Aug 2019 16:07:36 GMT
Server: gunicorn/19.9.0
Vary: Accept, Cookie
X-Frame-Options: SAMEORIGIN
```

```
{
  "task": "/pulp/api/v3/tasks/15d93c58-1633-4279-bcf4-c50a4947fc39/"
}
```

```
(pulp) [vagrant@pulp2-nightly-pulp3-source-centos7 pulpcore]$ http GET http://localhost:24817/pulp/api/v3/task/s/15d93c58-1633-4279-bcf4-c50a4947fc39/
HTTP/1.1 200 OK
Allow: GET, PATCH, DELETE, HEAD, OPTIONS
Connection: close
Content-Length: 878
Content-Type: application/json
Date: Tue, 13 Aug 2019 16:07:52 GMT
Server: gunicorn/19.9.0
Vary: Accept, Cookie
X-Frame-Options: SAMEORIGIN
```

```
{
  "_created": "2019-08-13T16:07:36.507399Z",
  "_href": "/pulp/api/v3/tasks/15d93c58-1633-4279-bcf4-c50a4947fc39/",
  "created_resources": [
    "/pulp/api/v3/repositories/9490efab-5953-4673-9c67-0aaa15504f35/versions/1/"
  ],
  "error": null,
  "finished_at": "2019-08-13T16:07:43.086543Z",
  "name": "pulp_docker.app.tasks.synchronize.synchronize",
  "non_fatal_errors": [],
  "parent": null,
  "progress_reports": [
    {
      "done": 1,
      "message": "Downloading tag list",
      "state": "completed",
      "suffix": null,
      "total": 1
    },
    {
      "done": 9,
      "message": "Processing Tags",
      "state": "completed",
      "suffix": null,
      "total": 9
    },
    {
      "done": 8,
      "message": "Downloading Artifacts",
      "state": "completed",
      "suffix": null,
      "total": 8
    },
    {
      "done": 35,
```

```

      "message": "Associating Content",
      "state": "completed",
      "suffix": null,
      "total": 35
    }
  ],
  "spawned_tasks": [],
  "started_at": "2019-08-13T16:07:36.606703Z",
  "state": "completed",
  "worker": "/pulp/api/v3/workers/2ccf02d6-419b-4d91-adf2-ac02d8b01650/"
}

```

```

(pulp) [vagrant@pulp2-nightly-pulp3-source-centos7 pulpcore]$ http GET http://localhost:24817/pulp/api/v3/repositories/9490efab-5953-4673-9c67-0aaa15504f35/versions/1/
HTTP/1.1 200 OK
Allow: GET, DELETE, HEAD, OPTIONS
Connection: close
Content-Length: 1229
Content-Type: application/json
Date: Tue, 13 Aug 2019 16:08:09 GMT
Server: gunicorn/19.9.0
Vary: Accept, Cookie
X-Frame-Options: SAMEORIGIN

```

```

{
  "_created": "2019-08-13T16:07:36.630378Z",
  "_href": "/pulp/api/v3/repositories/9490efab-5953-4673-9c67-0aaa15504f35/versions/1/",
  "base_version": null,
  "content_summary": {
    "added": {
      "docker.blob": {
        "count": 10,
        "href": "/pulp/api/v3/content/docker/blobs/?repository_version_added=/pulp/api/v3/repositories/9490efab-5953-4673-9c67-0aaa15504f35/versions/1/"
      },
      "docker.manifest": {
        "count": 9,
        "href": "/pulp/api/v3/content/docker/manifests/?repository_version_added=/pulp/api/v3/repositories/9490efab-5953-4673-9c67-0aaa15504f35/versions/1/"
      },
      "docker.tag": {
        "count": 9,
        "href": "/pulp/api/v3/content/docker/tags/?repository_version_added=/pulp/api/v3/repositories/9490efab-5953-4673-9c67-0aaa15504f35/versions/1/"
      }
    },
    "present": {
      "docker.blob": {
        "count": 10,
        "href": "/pulp/api/v3/content/docker/blobs/?repository_version=/pulp/api/v3/repositories/9490efab-5953-4673-9c67-0aaa15504f35/versions/1/"
      },
      "docker.manifest": {
        "count": 9,
        "href": "/pulp/api/v3/content/docker/manifests/?repository_version=/pulp/api/v3/repositories/9490efab-5953-4673-9c67-0aaa15504f35/versions/1/"
      },
      "docker.tag": {
        "count": 9,
        "href": "/pulp/api/v3/content/docker/tags/?repository_version=/pulp/api/v3/repositories/9490efab-5953-4673-9c67-0aaa15504f35/versions/1/"
      }
    },
    "removed": {}
  },
  "number": 1
}

```

```

$ http POST http://localhost:24817/pulp/api/v3/distributions/docker/docker/ name='bazx' base_path='foox' repository=/pulp/api/v3/repositories/9490efab-5953-4673-9c67-0aaa15504f35/
HTTP/1.1 202 Accepted
Allow: GET, POST, HEAD, OPTIONS
Connection: close
Content-Length: 67
Content-Type: application/json

```

Date: Tue, 13 Aug 2019 16:19:21 GMT  
Server: unicorn/19.9.0  
Vary: Accept, Cookie  
X-Frame-Options: SAMEORIGIN

```
{
  "task": "/pulp/api/v3/tasks/35b22593-e7f3-4c82-896e-4a3fd18c39d6/"
}
```

```
$ sudo docker pull localhost:24816/foox:manifest_a
Trying to pull repository localhost:24816/foox ...
manifest_a: Pulling from localhost:24816/foox
686209d53cbd: Pull complete
Digest: sha256:21e3caae28758329318c8a868a80daa37ad8851705155fc28767852c73d36af5
Status: Downloaded newer image for localhost:24816/foox:manifest_a
```

```
(pulp) [vagrant@pulp2-nightly-pulp3-source-centos7 pulpcore]$ pulp-admin repo list
```

```
+-----+
|                        Repositories                        |
+-----+
```

```
Id:                pulp-docker
Display Name:      None
Description:       None
Content Unit Counts:
  Docker Blob:      10
  Docker Manifest:  14
  Docker Manifest List: 4
  Docker Tag:       18
```

```
(pulp) [vagrant@pulp2-nightly-pulp3-source-centos7 pulpcore]$ mongo
```

```
MongoDB shell version v3.4.22
connecting to: mongod://127.0.0.1:27017
MongoDB server version: 3.4.22
Server has startup warnings:
2019-08-13T10:01:18.612+0000 I CONTROL [initandlisten]
2019-08-13T10:01:18.612+0000 I CONTROL [initandlisten] ** WARNING: Access control is not enabled for the data
base.
2019-08-13T10:01:18.612+0000 I CONTROL [initandlisten] **           Read and write access to data and configur
ation is unrestricted.
2019-08-13T10:01:18.612+0000 I CONTROL [initandlisten]
2019-08-13T10:01:18.613+0000 I CONTROL [initandlisten]
2019-08-13T10:01:18.613+0000 I CONTROL [initandlisten] ** WARNING: /sys/kernel/mm/transparent_hugepage/enable
d is 'always'.
2019-08-13T10:01:18.613+0000 I CONTROL [initandlisten] **           We suggest setting it to 'never'
2019-08-13T10:01:18.613+0000 I CONTROL [initandlisten]
2019-08-13T10:01:18.613+0000 I CONTROL [initandlisten] ** WARNING: /sys/kernel/mm/transparent_hugepage/defrag
is 'always'.
2019-08-13T10:01:18.613+0000 I CONTROL [initandlisten] **           We suggest setting it to 'never'
2019-08-13T10:01:18.613+0000 I CONTROL [initandlisten]
> use pulp_database
switched to db pulp_database
> db.units_docker_tag.count({'schema_version': 2})
9
```

#### #4 - 08/15/2019 02:53 PM - ipanova@redhat.com

- Tracker changed from Task to Story

- Status changed from ASSIGNED to POST

[https://github.com/pulp/pulp\\_docker/pull/404](https://github.com/pulp/pulp_docker/pull/404)

#### #5 - 08/15/2019 03:00 PM - ipanova@redhat.com

Sync from pulp3 with pulp3

```
$ http POST http://localhost:24817/pulp/api/v3/remotes/docker/docker/ name='foox1' upstream_name='foox' url='h
ttp://192.168.121.142:24816/' policy='on_demand'
HTTP/1.1 201 Created
Allow: GET, POST, HEAD, OPTIONS
Connection: close
Content-Length: 457
Content-Type: application/json
Date: Thu, 15 Aug 2019 10:17:10 GMT
```

Location: /pulp/api/v3/remotes/docker/docker/9342f5eb-4f5a-4b5c-8e48-7fe00c327ee0/  
Server: gunicorn/19.9.0  
Vary: Accept, Cookie  
X-Frame-Options: SAMEORIGIN

```
{
  "_created": "2019-08-15T10:17:10.518577Z",
  "_href": "/pulp/api/v3/remotes/docker/docker/9342f5eb-4f5a-4b5c-8e48-7fe00c327ee0/",
  "_last_updated": "2019-08-15T10:17:10.518592Z",
  "_type": "docker.docker",
  "download_concurrency": 20,
  "name": "foox1",
  "policy": "on_demand",
  "proxy_url": null,
  "ssl_ca_certificate": null,
  "ssl_client_certificate": null,
  "ssl_client_key": null,
  "ssl_validation": true,
  "upstream_name": "foox",
  "url": "http://192.168.121.142:24816/",
  "whitelist_tags": null
}
```

\$ http POST http://localhost:24817/pulp/api/v3/remotes/docker/docker/9342f5eb-4f5a-4b5c-8e48-7fe00c327ee0/sync / repository=/pulp/api/v3/repositories/c3685cbd-9bf1-4080-97cf-56376c9347df/  
HTTP/1.1 202 Accepted  
Allow: POST, OPTIONS  
Connection: close  
Content-Length: 67  
Content-Type: application/json  
Date: Thu, 15 Aug 2019 12:43:25 GMT  
Server: gunicorn/19.9.0  
Vary: Accept, Cookie  
X-Frame-Options: SAMEORIGIN

```
{
  "task": "/pulp/api/v3/tasks/a9fc8a4b-16d0-4c88-af2c-768c5ac9d6ad/"
}
```

(pulp) [vagrant@pulp3-source-fedora29 pulp\_docker]\$ http GET http://localhost:24817/pulp/api/v3/tasks/a9fc8a4b-16d0-4c88-af2c-768c5ac9d6ad/  
HTTP/1.1 200 OK  
Allow: GET, PATCH, DELETE, HEAD, OPTIONS  
Connection: close  
Content-Length: 1049  
Content-Type: application/json  
Date: Thu, 15 Aug 2019 12:43:36 GMT  
Server: gunicorn/19.9.0  
Vary: Accept, Cookie  
X-Frame-Options: SAMEORIGIN

```
{
  "_created": "2019-08-15T12:43:25.609563Z",
  "_href": "/pulp/api/v3/tasks/a9fc8a4b-16d0-4c88-af2c-768c5ac9d6ad/",
  "created_resources": [
    "/pulp/api/v3/repositories/c3685cbd-9bf1-4080-97cf-56376c9347df/versions/1/"
  ],
  "error": null,
  "finished_at": "2019-08-15T12:43:26.791018Z",
  "name": "pulp_docker.app.tasks.synchronize.synchronize",
  "non_fatal_errors": [],
  "parent": null,
  "progress_reports": [
    {
      "done": 1,
      "message": "Downloading tag list",
      "state": "completed",
      "suffix": null,
      "total": 1
    },
    {
      "done": 9,
      "message": "Processing Tags",
      "state": "completed",
      "suffix": null,
      "total": 9
    }
  ]
}
```

```

    },
    {
      "done": 8,
      "message": "Downloading Artifacts",
      "state": "completed",
      "suffix": null,
      "total": 8
    },
    {
      "done": 35,
      "message": "Associating Content",
      "state": "completed",
      "suffix": null,
      "total": 35
    }
  ],
  "reserved_resources_record": [
    "/pulp/api/v3/repositories/c3685cbd-9bf1-4080-97cf-56376c9347df/",
    "/pulp/api/v3/remotes/docker/docker/9342f5eb-4f5a-4b5c-8e48-7fe00c327ee0/"
  ],
  "spawned_tasks": [],
  "started_at": "2019-08-15T12:43:25.694853Z",
  "state": "completed",
  "worker": "/pulp/api/v3/workers/94b0db8f-310d-4a71-b2dd-9bdecb748dbc/"
}

```

```

(pulp) [vagrant@pulp3-source-fedora29 pulp_docker]$ http GET http://localhost:24817/pulp/api/v3/repositories/c3685cbd-9bf1-4080-97cf-56376c9347df/versions/1/
HTTP/1.1 200 OK
Allow: GET, DELETE, HEAD, OPTIONS
Connection: close
Content-Length: 1229
Content-Type: application/json
Date: Thu, 15 Aug 2019 12:43:45 GMT
Server: gunicorn/19.9.0
Vary: Accept, Cookie
X-Frame-Options: SAMEORIGIN

```

```

{
  "_created": "2019-08-15T12:43:25.715464Z",
  "_href": "/pulp/api/v3/repositories/c3685cbd-9bf1-4080-97cf-56376c9347df/versions/1/",
  "base_version": null,
  "content_summary": {
    "added": {
      "docker.blob": {
        "count": 10,
        "href": "/pulp/api/v3/content/docker/blobs/?repository_version_added=/pulp/api/v3/repositories/c3685cbd-9bf1-4080-97cf-56376c9347df/versions/1/"
      },
      "docker.manifest": {
        "count": 9,
        "href": "/pulp/api/v3/content/docker/manifests/?repository_version_added=/pulp/api/v3/repositories/c3685cbd-9bf1-4080-97cf-56376c9347df/versions/1/"
      },
      "docker.tag": {
        "count": 9,
        "href": "/pulp/api/v3/content/docker/tags/?repository_version_added=/pulp/api/v3/repositories/c3685cbd-9bf1-4080-97cf-56376c9347df/versions/1/"
      }
    },
    "present": {
      "docker.blob": {
        "count": 10,
        "href": "/pulp/api/v3/content/docker/blobs/?repository_version=/pulp/api/v3/repositories/c3685cbd-9bf1-4080-97cf-56376c9347df/versions/1/"
      },
      "docker.manifest": {
        "count": 9,
        "href": "/pulp/api/v3/content/docker/manifests/?repository_version=/pulp/api/v3/repositories/c3685cbd-9bf1-4080-97cf-56376c9347df/versions/1/"
      },
      "docker.tag": {
        "count": 9,
        "href": "/pulp/api/v3/content/docker/tags/?repository_version=/pulp/api/v3/repositories/c3685cbd-9bf1-4080-97cf-56376c9347df/versions/1/"
      }
    }
  }
}

```

```
}
  },
  "removed": {}
},
"number": 1
}
```

#### docker pull from pulp3 ( different machine)

```
add 192.168.121.142:24816 to insecure registry
```

```
$ sudo docker pull 192.168.121.142:24816/foox:manifest_a
Trying to pull repository 192.168.121.142:24816/foox ...
sha256:21e3caae28758329318c8a868a80daa37ad8851705155fc28767852c73d36af5: Pulling from 192.168.121.142:24816/foox
Digest: sha256:21e3caae28758329318c8a868a80daa37ad8851705155fc28767852c73d36af5
Status: Image is up to date for 192.168.121.142:24816/foox:manifest_a
(pulp) [vagrant@pulp3-source-fedora29 pulp_docker]$ http http://192.168.121.142:24816/v2/foox/tags/list
HTTP/1.1 200 OK
Content-Length: 132
Content-Type: application/json; charset=utf-8
Date: Thu, 15 Aug 2019 12:58:40 GMT
Server: Python/3.6 aiohttp/3.5.4
```

```
{
  "name": "foox",
  "tags": [
    "manifest_e",
    "ml_iv",
    "manifest_d",
    "ml_iii",
    "manifest_c",
    "manifest_a",
    "ml_i",
    "ml_ii",
    "manifest_b"
  ]
}
```

```
(pulp) [vagrant@pulp3-source-fedora29 pulp_docker]$ http http://192.168.121.142:24816/v2/foox/manifests/manifest_a
Accept: application/vnd.docker.distribution.manifest.v2+json
HTTP/1.1 200 OK
Accept-Ranges: bytes
Content-Disposition: attachment; filename=e3caae28758329318c8a868a80daa37ad8851705155fc28767852c73d36af5
Content-Length: 524
Content-Type: application/vnd.docker.distribution.manifest.v2+json
Date: Thu, 15 Aug 2019 12:58:55 GMT
Docker-Content-Digest: sha256:21e3caae28758329318c8a868a80daa37ad8851705155fc28767852c73d36af5
Docker-Distribution-API-Version: registry/2.0
Last-Modified: Thu, 15 Aug 2019 10:58:20 GMT
Server: Python/3.6 aiohttp/3.5.4
```

```
{
  "config": {
    "digest": "sha256:d21d863f69b5de1a973a41344488f2ec89a625f2624195f51b4e2d54a97fc53b",
    "mediaType": "application/vnd.docker.container.image.v1+json",
    "size": 1178
  },
  "layers": [
    {
      "digest": "sha256:686209d53cbd832d0c9a5f77ae8acf87c58f7880581cf132f4022857d23e9182",
      "mediaType": "application/vnd.docker.image.rootfs.diff.tar.gzip",
      "size": 130
    }
  ],
  "mediaType": "application/vnd.docker.distribution.manifest.v2+json",
  "schemaVersion": 2
}
```

#6 - 08/15/2019 03:12 PM - ipanova@redhat.com

- Status changed from POST to MODIFIED

- % Done changed from 0 to 100



Applied in changeset commit:pulp\_docker|8f4e8b43a48a6928ef7ccebdef6eff5e68be53be.

**#7 - 11/20/2019 07:21 PM - ipanova@redhat.com**

- *Project changed from Docker Support to Container Support*

**#8 - 12/12/2019 11:39 PM - ipanova@redhat.com**

- *Status changed from MODIFIED to CLOSED - CURRENTRELEASE*

**#9 - 01/22/2020 08:01 PM - ipanova@redhat.com**

- *Sprint/Milestone set to 1.0.0*