

## Arvados - Story #9046

### [Crunch2] Can issue container request to pull and import Docker images

04/25/2016 03:39 PM - Brett Smith

<b>Status:</b> New	<b>Start date:</b>
<b>Priority:</b> Normal	<b>Due date:</b>
<b>Assigned To:</b>	<b>% Done:</b> 0%
<b>Category:</b>	<b>Estimated time:</b> 0.00 hour
<b>Target version:</b> To Be Groomed	
<b>Description</b> Goal: system can get Docker images from external registries into Arvados instead of only doing it on the client side. For example, submitting a container request through Workbench. <ul style="list-style-type: none"><li>• Requires a way to submit container requests that are permitted to do Docker operations like "pull" and "save".</li><li>• To pull from external Docker registry, container cannot be firewalled</li><li>• Implemented as either alternate mode for crunch-run (pull/save instead of run) with a special format container request (TBD, but potentially command "crunch pull")</li></ul> Rejected implementation alternative: <ul style="list-style-type: none"><li>• alternate task runner (crunch-pull?) with new table for docker image requests?</li></ul>	
<b>Related issues:</b>	
Related to Arvados - Bug #10696: [CWL] Tries to run docker inside container w...	<b>New</b>
Related to Arvados - Story #13080: Provide users the ability to do entire wor...	<b>New</b>
Related to Arvados - Story #11162: [GA4GH] Support workflow execution API	<b>Resolved</b> 05/11/2018
Has duplicate Arvados - Story #11742: [API Server] Support for pulling Docker...	<b>Duplicate</b>
Has duplicate Arvados - Story #11724: Pull Docker images without requiring Do...	<b>New</b>

#### History

##### #1 - 03/20/2017 03:31 PM - Peter Amstutz

- Description updated

##### #2 - 05/23/2017 07:03 PM - Tom Morris

- Description updated

- Target version set to 2017-06-21 sprint

- Story points set to 2.0

- Release deleted (11)

##### #3 - 05/24/2017 03:03 PM - Peter Amstutz

- Subject changed from [Crunch2] Running CWL issues a container request to download and register required Docker images to [Crunch2] Can issue container request to download and register Docker images

##### #4 - 05/24/2017 03:03 PM - Peter Amstutz

- Subject changed from [Crunch2] Can issue container request to download and register Docker images to [Crunch2] Can issue container request to pull and import Docker images

##### #5 - 05/30/2017 03:27 PM - Peter Amstutz

For this to be useful, arvados-cwl-runner support is also required. Should probably be a separate task on this ticket?

##### #6 - 05/30/2017 04:29 PM - Peter Amstutz

Another way to go is to contribute support for exporting docker tarballs to <https://github.com/projectatomic/skopeo>

##### #7 - 05/30/2017 08:07 PM - Peter Amstutz

Docker registry API:

<https://docs.docker.com/registry/spec/api/#overview>

Docker registry authentication:

<https://docs.docker.com/registry/spec/auth/>

**#8 - 06/07/2017 06:56 PM - Tom Morris**

- Target version changed from 2017-06-21 sprint to Arvados Future Sprints

**#9 - 02/14/2018 08:15 PM - Tom Morris**

- Related to Story #13080: Provide users the ability to do entire workflow building process through the web interface added

**#11 - 05/15/2018 05:21 PM - Peter Amstutz**

- Related to Story #11162: [GA4GH] Support workflow execution API added

**#12 - 05/15/2018 05:24 PM - Peter Amstutz**

- Has duplicate Story #11724: Pull Docker images without requiring Docker on client added

**#13 - 04/18/2019 01:06 PM - Peter Amstutz**

- Target version changed from Arvados Future Sprints to To Be Groomed

**#14 - 04/18/2019 01:06 PM - Peter Amstutz**

- Story points deleted (2.0)