

## Arvados - Story #13794

### Build Docker images without requiring Docker on client

07/11/2018 08:28 PM - Peter Amstutz

<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>	
<b>Description</b> Web-only users do not have access to Docker on the client (in addition, some shell users don't have access to Docker for security reasons, for example visitors to cloud.curoverse.com). There should be a mechanism to submit a request to build a Docker image for use in Arvados.  Possible solutions:  <b>Unprivileged build inside a normal container request</b>  For building images, here is a blog post which outlines how to do it with nested unprivileged containers, which is described as an "epic yak shave". <ul style="list-style-type: none"><li><a href="https://blog.jessfraz.com/post/building-container-images-securely-on-kubernetes/">https://blog.jessfraz.com/post/building-container-images-securely-on-kubernetes/</a></li></ul> This seems like it would require quite a lot of tooling development.  <b>Special container request</b>  Special format container request recognized by crunch-run which executes "docker build" (instead of docker run) and produces the image collection as output.  <b>Dedicated docker builder service</b>  New microservice with API to request "build image".  <b>Use external build service</b>  For example, quay.io, then pull the resulting image ( <a href="#">#11724</a> ). Requires integrating with external service(s) so would be harder to fully automate compared to Arvados-based solutions.	
<b>Related issues:</b> Related to Arvados - Story #11724: Pull Docker images without requiring Docker on client... <b>New</b>	

#### History

#1 - 07/11/2018 08:28 PM - Peter Amstutz

- Status changed from New to In Progress

#2 - 07/11/2018 08:54 PM - Peter Amstutz

- Description updated

- Status changed from In Progress to New

#3 - 07/11/2018 08:54 PM - Peter Amstutz

- Related to Story #11724: Pull Docker images without requiring Docker on client added

#4 - 07/11/2018 09:07 PM - Peter Amstutz

- Tracker changed from Bug to Feature

#5 - 07/11/2018 09:07 PM - Peter Amstutz

- Tracker changed from Feature to Story

**#6 - 07/06/2021 09:10 PM - Peter Amstutz**

- Target version deleted (To Be Groomed)