

## Arvados - Bug #7154

### [Various] Various copy operations lose Docker image metadata

08/28/2015 03:38 PM - Brett Smith

<b>Status:</b>	New	<b>Start date:</b>	08/28/2015
<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>			

#### Description

The Arvados API server and clients identify Docker images by `docker_image_hash` and `docker_image_repo+tag` links associated with collections. If links don't point to this collection, it's undiscoverable: jobs can't refer to the image by this metadata, and `arv keep docker` won't list it. (You can still use it in a job by specifying the collection content address as your `docker_image`.)

At an API level, we can't prevent users from copying Docker image collections without copying the associated metadata. However, a few high-level copy tools also lose the metadata, which is not what users expect:

- Basically all of the Workbench copy mechanisms.
  - "Copy to project..." from the collection page.
  - Selecting the collection in a project and copying it from the pulldown menu.
  - On the collection page, select the single Docker image file in it, and create a new collection from that (although maybe users don't/shouldn't expect this to work)
- `arv-copy` by collection content address: In this case, `arv-copy` searches for all collections with that content address, and chooses one to copy based on which one is likely to have the best name. If it chooses a copy that's already lost the metadata links, it won't create any links on the destination either. It should probably copy over metadata from any collection with a matching content address.

Maybe we should just fix all these individual bugs in the copy tools. But I wanted to raise the question: should we be identifying Docker images a different way that less likely to be lost? Maybe through properties on the collection, or something like that?

#### History

#1 - 08/28/2015 03:42 PM - Brett Smith

- Description updated

#2 - 09/04/2015 07:41 PM - Brett Smith

- Target version deleted (Arvados Future Sprints)