

## Arvados - Feature #8501

### [SDKs] Add client-side join switches to `arv foo list`

02/19/2016 05:00 PM - Joshua Randall

<b>Status:</b>	New	<b>Start date:</b>	02/19/2016
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assigned To:</b>		<b>% Done:</b>	0%
<b>Category:</b>	SDKs	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	Arvados Future Sprints		
<b>Description</b>			
<p>It is possible to do client-side joins using the CLI, but it is very cumbersome, and is hard to write efficiently.</p> <p>This is especially useful when dealing with links (as one rarely cares about the link itself, but rather wants to know something about the entities that are linked), but I think support should be generic and not specific to links.</p> <p>For example, one might want to lookup collections having a particular tag and give the collection name and owner information. Today, one can accomplish this using the CLI using numerous invocations to `arv get` and `jq`:</p> <pre>\$ for collection_uuid in \$(arv link list -f '["link_class", "=", "tag"], ["head_kind", "=", "arvados#collection"], ["name", "=", "my_favorite_tag"]]' -s '["head_uuid"]'   jq -r '.items[].head_uuid'); do collection_name=\$(arv get "\${collection_uuid}"   jq -r '.name') &amp;&amp; collection_owner_uuid=\$(arv get "\${collection_uuid}"   jq -r '.owner_uuid') &amp;&amp; owner_name=\$(arv get "\${collection_owner_uuid}"   jq -r '.name') &amp;&amp; owner_kind=\$(arv get "\${collection_owner_uuid}"   jq -r '.kind') &amp;&amp; echo "\${collection_owner_uuid} {"collection_name":"'\${collection_name}'", "owner_name":"'\${owner_name}'", "owner_kind":"'\${owner_kind}'"}'; done</pre> <p>One way this could be made simpler would be by adding a "join" option for `arv foo list` along with having extended syntax for select and filter options that allow one to refer to columns namespaced to be within the joined objects.</p> <p>An example of how an invocation might look:</p> <pre>arv link list -s '["collection.name", "owner.name", "owner.kind"]' -j '{"collection":"head_uuid", "owner":"collection.owner_uuid"}' -f '["link_class", "=", "tag"], ["head_kind", "=", "arvados#collection"], ["name", "=", "my_favorite_tag"]'</pre>			

#### History

##### #1 - 02/23/2016 04:21 PM - Brett Smith

- Subject changed from `arv foo list` client-side joins to [SDKs] Add client-side join switches to `arv foo list`

##### #2 - 02/23/2016 04:21 PM - Brett Smith

- Target version set to Arvados Future Sprints