

## Arvados - Story #7473

### [FUSE] [SDKs] Ensure FUSE and other SDK clients work with a default replication level != 2

10/07/2015 06:54 PM - Brett Smith

<b>Status:</b>	New	<b>Start date:</b>	10/07/2015
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assigned To:</b>		<b>% Done:</b>	0%
<b>Category:</b>	FUSE	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	Arvados Future Sprints		
<b>Description</b>			
<p>We have a report that when an API server is configured with <code>default_collection_replication: 1</code>, and knows about one Keep service, any attempt to write to the FUSE mount returns I/O errors. This seems to be happening because the FUSE server does not respect this option in the API server, and tries to replicate everything twice.</p>			
<b>Implementation</b>			
<p>Add tests to the Python SDK to ensure the <code>defaultCollectionReplication</code> given in the discovery document is used as the default if a client does not specify a number of copies. If those tests fail, make them pass. (Currently, <code>arv-put</code> (in <code>commands/put.py</code>) uses the discovery doc to get the default. But the <code>KeepClient</code> class in the SDK should do this by itself: i.e., if <code>put()</code> is called with <code>copies=None</code> or no <code>copies</code> arg at all then use <code>api_client._rootDesc.get('defaultCollectionReplication', 2)</code>)</p>			
<p>Add tests to ensure that FUSE behaves correctly when the API server's default replication level is 1 (lower than the "default default" 2), and when it's 3 (higher than 2). If those tests fail, make them pass.</p>			

#### History

##### #1 - 10/07/2015 07:59 PM - Brett Smith

- Target version set to Arvados Future Sprints

##### #2 - 10/08/2015 01:42 PM - Brett Smith

- Description updated

##### #3 - 11/30/2015 03:23 PM - Tom Clegg

- Subject changed from *[FUSE] Ensure FUSE works with a default replication level != 2* to *[FUSE] [SDKs] Ensure FUSE works with a default replication level != 2*

- Description updated

##### #4 - 11/30/2015 03:34 PM - Tom Clegg

- Subject changed from *[FUSE] [SDKs] Ensure FUSE works with a default replication level != 2* to *[FUSE] [SDKs] Ensure FUSE and other SDK clients work with a default replication level != 2*

- Description updated