

## Arvados - Feature #2660

### [Tests] [Draft] Make entire test suite run faster by eliminating excess start/stop

04/17/2014 10:03 AM - Tom Clegg

<b>Status:</b>	Resolved	<b>Start date:</b>	
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assigned To:</b>		<b>% Done:</b>	0%
<b>Category:</b>	Tests	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>			
<b>Description</b>			
Desirable improvements			
<ul style="list-style-type: none"><li>• Move "run_test_server.py" out of the Python SDK directory and make it a package installable in its own right.<ul style="list-style-type: none"><li>◦ Probably needs a better name. "arvados-service"?</li><li>◦ Callable like "start", "stop", and "reset" (reset to initial fixture state -- see below)</li><li>◦ Manage services individually and as a group (e.g., "start all", "start keep0 keep1 keep2", "reset api")</li><li>◦ Ideally, can (optionally) use the config file from /docker to configure the services. (Perhaps make this an explicit step: "configure all", "configure keep0"?)</li></ul></li><li>• Pattern for using factories in addition to (eventually instead of) fixtures in API server. "For this test, I need the following set of objects."<ul style="list-style-type: none"><li>◦ FactoryGirl is a place to start.</li></ul></li><li>• Rollback apiserver to initial fixture state after each Workbench test case.<ul style="list-style-type: none"><li>◦ Also: apply a factory in preparation for a Workbench (or other) integration test.</li><li>◦ The database_cleaner gem seems to be aimed at this sort of thing. Perhaps apiserver just needs a button that uses database_cleaner (or something) to reset to "just the fixtures" state. (refs <a href="#">#2596</a>)</li><li>◦ Probably safer (and easier) to make the mechanism for calling factories go out-of-band, i.e., use a rake task or a signal instead of adding an API call.</li><li>◦ Whatever the mechanism, it should only function when RAILS_ENV=test or RAILS_ENV=development.</li></ul></li></ul>			
CI test script will end up looking like			
<ol style="list-style-type: none"><li>1. Install each component (keepproxy, api server, python sdk, ...)</li><li>2. Install arvados-service</li><li>3. arvados-service start</li><li>4. Run test suite for each component, calling arvados-service reset after each one<ul style="list-style-type: none"><li>◦ arvados-service stop api while running api test suite, etc.</li></ul></li></ol>			
<b>Related issues:</b>			
Related to Arvados - Story #3021: [Tests] Make jenkins tests run faster.		<b>Resolved</b>	<b>01/05/2015</b>

#### History

##### #1 - 04/17/2014 10:04 AM - Tom Clegg

- Description updated

##### #2 - 07/04/2014 04:36 PM - Tom Clegg

- Target version set to Arvados Future Sprints

##### #3 - 08/15/2014 10:38 AM - Tom Clegg

- Subject changed from Rollback apiserver to initial fixture state after each Workbench test case. to [Tests] [Draft] Clean up testing infrastructure

- Description updated

- Category set to Tests

##### #4 - 11/14/2014 06:59 PM - Tom Clegg

- Subject changed from [Tests] [Draft] Clean up testing infrastructure to [Tests] [Draft] Make entire test suite run faster by eliminating excess start/stop

##### #5 - 11/14/2014 07:01 PM - Tom Clegg

- Story points changed from 1.0 to 2.0

**#6 - 11/14/2014 07:06 PM - Tom Clegg**

- *Story points deleted (2.0)*

**#7 - 04/03/2015 08:34 PM - Brett Smith**

[#3021](#) implemented much of the end of the description, but didn't accomplish some of the higher-minded implementation details in here like more cleanly separating run\_test\_server.py.

**#8 - 02/14/2017 08:06 PM - Tom Clegg**

- *Status changed from New to Resolved*

- *Target version deleted (Arvados Future Sprints)*