Arvados - Feature #9017

[Tests] Make slow tests optional (e.g., run-tests.sh --short)

04/20/2016 02:10 PM - Tom Clegg

Status:	In Progress		**Start date:**	04/26/2016
Priority:	Normal		**Due date:**	
Assigned To:	Tom Clegg		**% Done:**	60%
Category:	Tests		**Estimated time:**	0.00 hour
Target version:				

Description

Some test suites have a few slow tests which contribute disproportionately to the development cycle ("make sure all tests pass before pushing to master" and "make a few changes, run tests to make sure things are still OK").

As a developer, first I want to know as quickly as possible about all of the *fast* tests that fail. When all of those pass, it makes sense to run the slow tests.

Proposed implementation

Identify slow tests, and skip them when running build/run-tests.sh --short

- Python tests can use a @slow_test decorator enabled via setup.py test --short-tests-only flag (see 9017-skip-slow-tests @ a39a197)
- Go packages can use "go test -short". Slow tests in Go packages like keep-web's "download a 1GB file" ~~should~~ already do check testing.Short() and skip or run a faster version.

Jenkins should run the full suite (without --short) at least periodically (e.g., the nightly build).

Jenkins should allow dev jobs to specify whether they want --short.

(Perhaps?) Jenkins' "test when master changes" job should run with --short.

Subtasks:

Task # 9102: Skip collection performance tests in API suite	**Resolved**
Task # 9101: Communicate --short flag to Rails test suites	**Resolved**
Task # 9052: Review 9017-skip-slow-tests	**Resolved**
Task # 9103: Skip collection performance tests in Python SDK suite	**In Progress**
Task # 9158: Skip expensive setup/teardown, too	**New**

Associated revisions

Revision e1de8892 - 04/26/2016 10:07 PM - Tom Clegg

Merge branch '9017-skip-slow-tests'

refs #9017

Revision 1a39dff7 - 05/05/2016 02:54 PM - Tom Clegg

Merge branch '9017-apiserver-short-tests'

refs #9017

History

#1 - 04/20/2016 05:44 PM - Tom Clegg

- *Description updated*

#2 - 04/21/2016 05:38 PM - Tom Clegg

- *Description updated*

#3 - 04/22/2016 08:41 PM - Tom Clegg

- *Description updated*

#4 - 04/22/2016 09:05 PM - Tom Clegg

- Subject changed from [Tests] Make slow tests optional (e.g., ENABLE_SLOW_TESTS env var) to [Tests] Make slow tests optional (e.g., run-tests.sh --short)

- Status changed from New to In Progress

#5 - 04/25/2016 09:59 PM - Tom Clegg

- Target version set to 2016-04-27 sprint

#6 - 04/25/2016 09:59 PM - Tom Clegg

- Category set to Tests

- Assigned To set to Tom Clegg

#7 - 04/25/2016 10:02 PM - Tom Clegg

9017-skip-slow-tests @ c9b4764

#8 - 04/26/2016 03:40 PM - Nico César

reviewed c9b47645638c848bfbc27d21d536995072395106

the change LGTM, and can be merged.

About the the implementation in Jenkins. IMHO the --short should only be triggered manually (i.e. with a parameter of the build) to have a run on the jenkins box and share results quickly. But: even if the test pass it should **not** upload packages to our repos. which today the job arvados-api-server has a lot of downstream jobs that will end up doing so. One good starting point is to use developer-test-job that will allow this flag to be part of the parameters for quick developer turnaround cycle

#9 - 04/27/2016 04:45 PM - Brett Smith

- Target version changed from 2016-04-27 sprint to 2016-05-11 sprint

#10 - 05/11/2016 06:03 PM - Brett Smith

- Target version changed from 2016-05-11 sprint to Arvados Future Sprints

- Story points deleted (0.5)

This is a superbug, where there's basically always more improvement that can be made. Tom will apparently continue to make improvements extracirricularly. But there's not a ton of point in having it on a sprint, since it'll be a long time before we finally agree it's "done."

#11 - 07/07/2021 06:25 PM - Ward Vandewege

- Target version deleted (Arvados Future Sprints)