Arvados - Story #3187

[Workbench] Better information and features on "show pipeline instance" page

07/04/2014 02:54 PM - Tom Clegg

Status:	Resolved		**Start date:**	08/05/2014
Priority:	Normal		**Due date:**	
Assigned To:	Peter Amstutz		**% Done:**	100%
Category:	Workbench		**Estimated time:**	0.00 hour
Target version:	2014-10-08 sprint			

Description

Summary:

- current state
- when last changed state
- total elapsed time of all finished/running jobs
- some sort of error message from failed job (if any)

Details (for each component):

- component name
- job description: script_name, repository, script_version, docker image
- if a job is submitted/assigned for the component: id (link), script_version, docker image, create timestamp, start/finish timestamp if applicable
- was the job submitted in the course of running this pipeline, or was an existing job reused?[1]
- status label (queued, running, finished, cancelled, failed)
- progress bar (if running)
- elapsed time [so far] if applicable
- output and log links if applicable
- "cancel job" button if applicable

[1] This might not yet be recorded anywhere. Sometimes, but not always, job-creation-time < pipeline-start-time for existing jobs that were reused.

See Workbench UI images for layout advice.

Imported from #3188:

Structural:

- Showing a job should look (nearly) the same as showing a pipeline instance with a single component. Some fields aren't applicable, like component name. Future work may change the CLI tools so jobs never even get submitted except as part of pipelines.
- On the pipeline instance page, instead of linking to "job details", make all the details available on the pipeline page.

Job summary:

- script name
- current state (queued, running, finished, failed)
- when last changed state
- who submitted
- progress bar (if running)
- live log messages (if running)
- number of tasks (total = done + running + todo)
- number of task failures (if any)
- link to output collection

Job details:

- repository
- script version
- parameters (with preview of collections?)
- runtime parameters

- docker image
- timestamps (submit, start, finish, cancel)
- elapsed time between submit and cancel/start (or now)
- elapsed time between start and cancel/finish (or now)

Subtasks:	
Task # 3850: Add started_at and finished_at to tasks and pipelines	**Resolved**
Task # 3862: Review 3187-pipeline-instance-page	**Resolved**
Task # 3888: Fix tests	**Resolved**
Task # 3766: Send screen capture to Tom O'Keefe to get design/layout advice	**Resolved**
Task # 3487: Show all component and job details, and overall timing stats	**Resolved**
Task # 3849: Review 3187-start-finish-timestamps-tasks-pipelines	**Resolved**
Related issues:	
Related to Arvados - Story #3188: [Workbench] Merge "show job" functionality ...	**Closed**

Associated revisions

Revision ac594f16 - 09/12/2014 09:43 AM - Peter Amstutz

Merge branch '3187-start-finish-timestamps-tasks-pipelines' refs #3187

Revision 9a88a95c - 09/15/2014 09:48 AM - Peter Amstutz

Updated Gemfile to pull in changes from commit:ac594f1 refs #3187

Revision 1d5d09e8 - 09/23/2014 06:35 PM - Peter Amstutz

Bugfix extra space in display in render_runtime and queued time for pipeline.
refs #3187

Revision 92211c8b - 09/23/2014 06:48 PM - Peter Amstutz

Bugfix time display, also bugfix for job state "Completed" -> "Complete". refs #3187

History

#1 - 07/04/2014 02:55 PM - Tom Clegg

- Target version set to 2014-08-06 Sprint

#2 - 07/04/2014 03:43 PM - Radhika Chippada

- Subject changed from Better information and features on "show pipeline instance" page to [Workbench] Better information and features on "show pipeline instance" page

- Category set to Workbench

#3 - 07/10/2014 10:43 PM - Tom Clegg

- Description updated

#4 - 07/10/2014 10:44 PM - Tom Clegg

- Description updated

#5 - 07/14/2014 05:06 PM - Tom Clegg

- Description updated

#6 - 07/16/2014 04:19 PM - Tom Clegg

- Description updated

#7 - 07/16/2014 04:36 PM - Tom Clegg

- Assigned To set to Phil Hodgson

#8 - 07/16/2014 05:13 PM - Tom Clegg

- Target version changed from 2014-08-06 Sprint to Arvados Future Sprints

#9 - 07/30/2014 10:38 AM - Tom Clegg

- Target version changed from Arvados Future Sprints to 2014-08-27 Sprint

#10 - 07/30/2014 10:46 AM - Tom Clegg

- Description updated

#11 - 08/05/2014 05:12 PM - Phil Hodgson

- Status changed from New to In Progress

#12 - 08/09/2014 05:46 PM - Tom Clegg

- Description updated

#13 - 08/27/2014 03:13 PM - Ward Vandewege

- Target version changed from 2014-08-27 Sprint to 2014-09-17 sprint

#14 - 08/27/2014 03:17 PM - Tom Clegg

- Description updated

- Story points changed from 2.0 to 3.0

#15 - 08/27/2014 03:20 PM - Peter Amstutz

- Assigned To changed from Phil Hodgson to Peter Amstutz

#16 - 09/09/2014 12:22 PM - Peter Amstutz

Plan:

- Use collapsible panels for each component. Show summary at the top, user can click to expand and get details.
- Use advanced log viewer for live log view. Add feature to filter by job.
- Use single set of erb templates for job/template, render single job by creating stand-in pipeline instance?
- Do something useful with crunchstat.

Additional desirable features:

- Adjust timestamps using JS to use local timezone instead of displaying UTC.

#17 - 09/09/2014 01:40 PM - Peter Amstutz

Also show queue position of queued jobs.

#18 - 09/15/2014 02:31 PM - Radhika Chippada

Peter,
I may not have done a great job of reviewing any potential issues with the updates. However, I have a few comments based on my reading through the code and testing:

- apps/workbench/app/assets/javascripts/dates.js
  - Forgotten console.log statement?
  - if you want to keep it, what are you trying to log? Can you please make it more descriptive?
  - Way too many "woble!" lines when I run the tests :)
  - "var re" can you call it "regexp" or "date_regexp"? I would also prefer we call "var v" as "var matches" or something like that.

- pipeline_instances_helper.rb:
  - merge_range method - what is "j" referenced in comments?
  - determine_wallclock_runtime method
    - What is the input for this method? Is it "job" or range? In the PipelineInstancesControllerTest, you call the input to this method as "r", which makes me wonder if it is "range". Also, can you please use a more explanatory name in the test, such as "range" or "time_range" instead of "r"?
    - Forgotten "puts" statement in this method?
  - runtime method
    - It appears that this is not returning the pipeline's runtime. Can you use a more descriptive name for this method? May be something like "component_runtime"?
    - It appears that the method parameter "long" indicates that the user wants a long description of the runtime duration? How about a name such as "long_description"? "long" on its own feels so confusing with number-like keyword

- apps/workbench/app/views/pipeline_instances/_show_components_running.html.erb
  - Forgotten puts statement at lines 56 and 85?
  - indentation off at line 49

- Question about nil check
  - Can "if not job[:cancelled_at].nil?" be simplified as "if !job[:cancelled_at]" ? There were a few such cases and just want to see if we can

improve readability.

- Pipeline UI: The "Components" tab has text "Has not started. . .". This pipeline summary needs to be a bit more descriptive. Right now, I could not understand what it is telling me.

- Advanced tab: Can we rename "curl example" as "Curl example" so that it looks similar to the other accordion titles? I looked at curl "man" page and it does use "Curl" some places and hence I think it does not seem too offensive to use the uppercase letter.

- Two failing integration tests:
  - PipelineInstancesTest#test_Create_and_run_a_pipeline:
    test/integration/pipeline_instances_test.rb:78:in `block in <class:PipelineInstancesTest>'
  - PipelineInstancesTest#test_Create_pipeline_inside_a_project_and_run:
    test/integration/pipeline_instances_test.rb:141:in `block in <class:PipelineInstancesTest>'

#19 - 09/17/2014 03:06 PM - Peter Amstutz

- Target version changed from 2014-09-17 sprint to 2014-10-08 sprint

#20 - 09/23/2014 06:59 PM - Peter Amstutz

- Status changed from In Progress to Resolved