

Arvados - Feature #15087

[Workbench] Show number of queued containers on dashboard (instead of busy/idle nodes)

04/09/2019 07:21 PM - Tom Clegg

Status:	Resolved	Start date:	06/14/2019
Priority:	Normal	Due date:	
Assigned To:	Peter Amstutz	% Done:	100%
Category:	Workbench	Estimated time:	0.00 hour
Target version:	2019-06-19 Sprint		
Description			
Background: Currently Workbench1 has "busy/idle nodes" counters on the dashboard, but they stop working or disappear if the deprecated crunch1 services are not running. This issue suggests a low-cost way to maintain some semblance of an "is anything happening?" indicator on Workbench after migrating to crunch2.			
Feature: On the Workbench1 dashboard, if crunch2 is enabled, show			
<ul style="list-style-type: none">• the number of containers (visible to the current user) that have state=Locked, or state=Queued and priority>0• the number of containers (visible to the current user) that have Running• time since the earliest start time of any running container (visible to the current user)• how long the oldest visible queued container has been waiting			
Benefits:			
<ul style="list-style-type: none">• Easy to implement¹ in Workbench in a way that works with all dispatch setups• Corresponds to reasonable user expectations ("it shouldn't take 2 hours to start a container")			
Shortcomings:			
<ul style="list-style-type: none">• "Lots of other users' containers are queued ahead of yours" looks identical to "nothing is running at all" (assuming user is not admin)• "Cluster is at capacity, with long-running containers" looks identical to "cluster is unable to run anything at all"• Doesn't take advantage of the metrics we are (or could be) tracking in arvados-dispatch-cloud, like recent queued-to-starting delays and # busy/idle/booting cloud instances.			
¹ Assuming we aren't too picky about the definition of "oldest" -- currently we don't record how long a container has been ready to run, only when it was created (since when it might have spent lots of time having priority=0) and when it was last modified (at which point it might have merely raised its priority long after it was ready to run)			
Subtasks:			
Task # 15325: Review 15087-wb-queued-containers			Resolved
Related issues:			
Related to Arvados - Bug #15036: [Crunch2] Idle/busy node count not accurate ...		Duplicate	
Related to Arvados - Bug #15014: [Workbench] Hide busy/idle nodes display whe...		Resolved	09/30/2019
Blocks Arvados - Story #15133: Remove crunch v1 (jobs api)		Resolved	08/08/2019

Associated revisions

Revision bf9803ee - 06/17/2019 03:20 PM - Peter Amstutz

Merge branch '15087-wb-queued-containers' closes #15087

Arvados-DCO-1.1-Signed-off-by: Peter Amstutz <pamstutz@veritasgenetics.com>

History

#1 - 04/17/2019 01:52 PM - Tom Clegg

- Description updated

#2 - 04/17/2019 01:53 PM - Tom Clegg

- Description updated

#3 - 04/17/2019 01:56 PM - Tom Clegg

- Target version changed from To Be Groomed to Arvados Future Sprints
- Story points set to 1.0

#4 - 05/01/2019 03:19 PM - Peter Amstutz

- Related to Story #15133: Remove crunch v1 (jobs api) added

#5 - 05/22/2019 05:33 PM - Tom Clegg

- Related to Bug #15036: [Crunch2] Idle/busy node count not accurate if crunch1 not running added

#6 - 05/22/2019 05:34 PM - Tom Clegg

- Related to Bug #15014: [Workbench] Hide busy/idle nodes display when crunch1 is not active added

#7 - 05/29/2019 02:53 PM - Tom Morris

- Related to deleted (Story #15133: Remove crunch v1 (jobs api))

#8 - 05/29/2019 02:53 PM - Tom Morris

- Blocks Story #15133: Remove crunch v1 (jobs api) added

#9 - 06/05/2019 03:33 PM - Peter Amstutz

- Assigned To set to Peter Amstutz
- Target version changed from Arvados Future Sprints to 2019-06-19 Sprint

#10 - 06/10/2019 02:15 PM - Ward Vandewege

- Release set to 22

#11 - 06/13/2019 07:58 PM - Tom Clegg

- Description updated

#12 - 06/13/2019 08:39 PM - Peter Amstutz

- Do we actually want the oldest queued container, or the age of container at the top of the queue? (which would be highest priority)?

#13 - 06/14/2019 02:01 PM - Peter Amstutz

- 15087-wb-queued-containers @ [6b9eafb0de63da57e7b1a3945e7d16823e1c25df](#)

Adds a new panel displaying pending/running containers and age of oldest container and longest running container.

#14 - 06/14/2019 04:57 PM - Lucas Di Pentima

- Tried it locally by running some simple jobs on arvbox, seems to work ok! Just one comment:

- I noticed that no tests were modified/added — there're some failing at <https://ci.curoverse.com/job/developer-run-tests/1308/>

#15 - 06/14/2019 06:42 PM - Peter Amstutz

- 15087-wb-queued-containers @ [1cf8673787f9aa62d2a63212522f883c867219af](#)

<https://ci.curoverse.com/view/Developer/job/developer-run-tests/1310/>

Fixed tests (hopefully).

#16 - 06/17/2019 01:48 PM - Peter Amstutz

- 15087-wb-queued-containers @ [466ae87ff214d37c0765ee64845941adcbae8af4](#)

Added links to the oldest / longest running container. Tweaked the layout. Re-running tests:

<https://ci.curoverse.com/view/Developer/job/developer-run-tests/1315/>

#17 - 06/17/2019 02:51 PM - Lucas Di Pentima

Latest updates LGTM, thanks.

#18 - 06/17/2019 03:35 PM - Peter Amstutz

- Status changed from New to Resolved

- % Done changed from 0 to 100

Applied in changeset [arvados|bf9803ee5afb33231da7900dddfac34b7056a6](#).