

Arvados - Bug #11561

[API] Limit number of lock/unlock cycles for a given container

04/26/2017 07:17 PM - Tom Clegg

Status:	Resolved	Start date:	04/26/2017
Priority:	Normal	Due date:	
Assigned To:	Peter Amstutz	% Done:	100%
Category:	API	Estimated time:	0.00 hour
Target version:	2019-02-27 Sprint		
Description			
Currently, if a container cannot be started due to some infrastructure problem (whether or not it's related to the specific container) it will be retried repeatedly forever.			
Proposed solution:			
Add a site config knob (analogous to num_retries) that limits the number of times a container can be unlocked (moved from Locked to Queued state) before being automatically cancelled.			
Add:			
<ul style="list-style-type: none">• Config key max_container_dispatch_attempts (default 5)• DB column "lock_count" (do not include in API response)• Increment lock_count during lock()• When unlocking a container, if lock_count >= Rails.configuration.max_container_dispatch_attempts, change state to Cancelled instead of Queued (the unlock API should still respond 200 in this case) and update runtime_status[error] with an error message.			
Write tests and update documentation.			
Subtasks:			
Task # 14837: Review 11561-limit-container-locks			Resolved
Related issues:			
Related to Arvados - Bug #11190: Containers seem to run more than once, which...	Resolved	03/01/2017	
Related to Arvados - Bug #18102: max dispatch attempts error	Resolved	09/07/2021	
Has duplicate Arvados - Bug #14540: [API] Limit number of container lock/unlo...	Duplicate		
Is duplicate of Arvados - Bug #9688: [Crunch2] Limit number of dispatch attem...	Resolved	08/02/2016	

Associated revisions

Revision a4efc217 - 02/19/2019 04:40 PM - Peter Amstutz

Merge branch '11561-limit-container-locks' refs #11561

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

History

#1 - 04/26/2017 07:20 PM - Tom Clegg

- Description updated

#2 - 08/28/2017 10:03 PM - Tom Morris

- Target version set to Arvados Future Sprints

#3 - 01/03/2019 09:08 PM - Peter Amstutz

- Related to Bug #9688: [Crunch2] Limit number of dispatch attempts per container added

#4 - 01/03/2019 09:11 PM - Peter Amstutz

- Target version changed from Arvados Future Sprints to To Be Groomed

#5 - 01/03/2019 09:12 PM - Tom Morris

This is a near duplicate of [#9688](#). We should probably just merge the two.

#6 - 01/03/2019 09:43 PM - Tom Morris

- Related to Bug #14540: [API] Limit number of container lock/unlock cycles added

#7 - 01/10/2019 08:45 PM - Peter Amstutz

- Related to deleted (Bug #14540: [API] Limit number of container lock/unlock cycles)

#8 - 01/10/2019 08:46 PM - Peter Amstutz

- Has duplicate Bug #14540: [API] Limit number of container lock/unlock cycles added

#9 - 01/10/2019 08:46 PM - Peter Amstutz

- Related to deleted (Bug #9688: [Crunch2] Limit number of dispatch attempts per container)

#10 - 01/10/2019 08:46 PM - Peter Amstutz

- Is duplicate of Bug #9688: [Crunch2] Limit number of dispatch attempts per container added

#11 - 01/10/2019 08:47 PM - Peter Amstutz

- Status changed from New to Duplicate

#12 - 01/10/2019 08:47 PM - Peter Amstutz

- Status changed from Duplicate to New

- Priority changed from Normal to High

#14 - 01/10/2019 09:14 PM - Peter Amstutz

- Description updated

#15 - 01/10/2019 09:16 PM - Peter Amstutz

- Description updated

#16 - 01/10/2019 09:18 PM - Peter Amstutz

- Story points set to 2.0

#17 - 02/13/2019 04:27 PM - Tom Morris

- Target version changed from To Be Groomed to 2019-02-27 Sprint

#18 - 02/13/2019 04:30 PM - Peter Amstutz

- Assigned To set to Peter Amstutz

#19 - 02/15/2019 02:46 PM - Peter Amstutz

11561-limit-container-locks @ [0f14b3456d2d3bdf95b78b65a1a41280a7416928](#)

<https://ci.curoverse.com/view/Developer/job/developer-run-tests/1074/>

Added lock_count + migration

Updated lock/unlock

Added test

Added configuration parameter (and added it to the new cluster config design doc as well)

#20 - 02/19/2019 03:35 PM - Lucas Di Pentima

This LGTM, thanks!

#21 - 02/19/2019 04:40 PM - Peter Amstutz

- Status changed from New to Resolved

#22 - 03/01/2019 07:33 PM - Tom Morris

- Release set to 15

#23 - 09/06/2021 07:32 PM - Tom Clegg

- Related to Bug #18102: max dispatch attempts error added