

## Arvados - Bug #9688

### [Crunch2] Limit number of dispatch attempts per container

08/02/2016 07:13 PM - Tom Clegg

<b>Status:</b> Resolved	<b>Start date:</b> 08/02/2016
<b>Priority:</b> Normal	<b>Due date:</b>
<b>Assigned To:</b>	<b>% Done:</b> 0%
<b>Category:</b>	<b>Estimated time:</b> 0.00 hour
<b>Target version:</b>	
<b>Description</b>	
<b>Problem</b>	
There are circumstances where crunch-dispatch-* tries to run a container, but something fails before the container gets to Running state, so the container goes back to Queued state. See <a href="#">#9679</a> .	
If the same problem keeps happening, the container just flaps between Queued and Locked.	
After a certain amount of time, or number of retries, we should really just give up and cancel the container.	
<b>Proposed solutions</b>	
Pick one of:	
<ul style="list-style-type: none"><li>(crunch-dispatch-*) If a single container gets dispatched more than N times (over a period of at least M seconds) by a single crunch-dispatch-* process, but still won't run, give up and change state to Cancelled.</li><li>(API server) If a container has been Locked and returned to Queued state, and is more than M seconds old, cancel it.</li></ul>	
Also (optional), to mitigate starvation risk in a multiple-dispatch setup:	
<ul style="list-style-type: none"><li>Introduce a delay between "return container X to queue" and "re-attempt X".</li></ul>	
<b>Related issues:</b>	
Related to Arvados - Bug #9679: [Crunch2] Provide feedback when a container i...	<b>Resolved</b> 07/29/2016
Has duplicate Arvados - Bug #14540: [API] Limit number of container lock/unlo...	<b>Duplicate</b>
Has duplicate Arvados - Bug #11561: [API] Limit number of lock/unlock cycles ...	<b>Resolved</b> 04/26/2017

### History

#### #1 - 01/03/2019 09:08 PM - Peter Amstutz

- Related to Bug #11561: [API] Limit number of lock/unlock cycles for a given container added

#### #2 - 01/03/2019 09:10 PM - Tom Morris

- Priority changed from Normal to High

- Target version set to To Be Groomed

#### #3 - 01/03/2019 09:43 PM - Tom Morris

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

#### #4 - 01/10/2019 08:45 PM - Peter Amstutz

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

#### #5 - 01/10/2019 08:46 PM - Peter Amstutz

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

#### #6 - 01/10/2019 08:46 PM - Peter Amstutz

- Related to deleted (Bug #11561: [API] Limit number of lock/unlock cycles for a given container)

#### #7 - 01/10/2019 08:46 PM - Peter Amstutz

- Has duplicate Bug #11561: [API] Limit number of lock/unlock cycles for a given container added

**#8 - 01/10/2019 08:47 PM - Peter Amstutz**

- Status changed from New to Duplicate

**#9 - 02/13/2019 04:13 PM - Tom Morris**

- Target version deleted (To Be Groomed)

**#10 - 09/06/2021 07:33 PM - Tom Clegg**

- Priority changed from High to Normal

- Status changed from Duplicate to Resolved