

## Arvados - Feature #16838

### [a-d-c] probe metrics

09/14/2020 08:41 PM - Ward Vandewege

<b>Status:</b> Resolved	<b>Start date:</b> 09/18/2020
<b>Priority:</b> Normal	<b>Due date:</b>
<b>Assigned To:</b> Ward Vandewege	<b>% Done:</b> 100%
<b>Category:</b>	<b>Estimated time:</b> 0.00 hour
<b>Target version:</b> 2020-09-23 Sprint	
<b>Description</b> As an indicator of how healthy our cloud is: <ul style="list-style-type: none"><li>• avg runProbe duration by success/failed state (SummaryVec)</li></ul>	
<b>Subtasks:</b> Task # 16845: review 16838-probe-metrics <b>Resolved</b>	
<b>Related issues:</b> Related to Arvados - Feature #16636: [arvados-dispatch-cloud] Add instance me... <b>Resolved</b> <b>08/03/2020</b>	

### Associated revisions

#### Revision dbaa58c1 - 09/18/2020 08:36 PM - Ward Vandewege

Merge branch '16838-probe-metrics' into master

closes #16838

Arvados-DCO-1.1-Signed-off-by: Ward Vandewege <[ward@curii.com](mailto:ward@curii.com)>

### History

#### #1 - 09/16/2020 08:54 PM - Ward Vandewege

- Target version changed from 2020-10-07 Sprint to 2020-09-23 Sprint
- Assigned To set to Ward Vandewege
- Status changed from New to In Progress

Ready for review in [799f8e333e7067cee0db0ee8bbcf45a56602d1f1](https://github.com/Arvados/arvados/pull/799f8e333e7067cee0db0ee8bbcf45a56602d1f1) on branch 16838-probe-metrics

#### #2 - 09/18/2020 04:03 PM - Tom Clegg

TestProbeAndUpdate panics in WithLabelValues -- could solve this by calling `pool.registerMetrics(prometheus.NewRegistry())` at `worker_test.go` L242

Not sure about calling `Observe(0)` in setup. Presumably the idea is to bring the success/fail metrics into existence early instead of waiting for the first success/failure, and this works well for gauges and counters where the initial value really is zero, but here it seems to add a fake "probe took 0 seconds" value, so metrics would always indicate that 1 probe succeeded and 1 probe failed even when nothing of the sort has happened, which seems unfortunate. I don't see a way around this, but I wonder if it would be better to drop it, and accept that prometheus will say "no data points" sometimes...?

#### #3 - 09/18/2020 06:42 PM - Ward Vandewege

Tom Clegg wrote:

TestProbeAndUpdate panics in WithLabelValues -- could solve this by calling `pool.registerMetrics(prometheus.NewRegistry())` at `worker_test.go` L242

Doh, I ran tests, but perhaps not in the correct git tree. Fixed as you suggested.

Not sure about calling `Observe(0)` in setup. Presumably the idea is to bring the success/fail metrics into existence early instead of waiting for the first success/failure, and this works well for gauges and counters where the initial value really is zero, but here it seems to add a fake "probe took 0 seconds" value, so metrics would always indicate that 1 probe succeeded and 1 probe failed even when nothing of the sort has happened, which seems unfortunate. I don't see a way around this, but I wonder if it would be better to drop it, and accept that prometheus will say "no data points" sometimes...?

That's fair. I've removed the `Observe(0)` call.

Changes at [126139084160563c2b4fe3969461c40ecbbf6951](https://github.com/126139084160563c2b4fe3969461c40ecbbf6951) on branch 16838-probe-metrics

Just to be sure, running all tests at <https://ci.arvados.org/view/Developer/job/developer-run-tests/2107/>

**#4 - 09/18/2020 07:26 PM - Tom Clegg**

LGTM, thanks!

**#5 - 09/18/2020 08:47 PM - Ward Vandewege**

- % Done changed from 0 to 100

- Status changed from In Progress to Resolved

Applied in changeset [arvados/dbaa58c1c806799435ca5741b3f61bc6b65b6569](https://github.com/arvados/dbaa58c1c806799435ca5741b3f61bc6b65b6569).

**#6 - 10/07/2020 02:12 AM - Peter Amstutz**

- Release set to 25

**#7 - 12/02/2020 05:40 PM - Ward Vandewege**

- Related to Feature #16636: [arvados-dispatch-cloud] Add instance metrics added