

Arvados - Bug #17770

[a-d-c] while in throttle mode, the logs are full of "creating new instance" lines

06/08/2021 05:06 PM - Ward Vandewege

Status:	Resolved	Start date:	
Priority:	Normal	Due date:	
Assigned To:	Ward Vandewege	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	2021-09-29 sprint		
Description			
<p>When a-d-c gets a cloud error that indicates throttling, it uses a backoff algorithm. This works as expected, but the logs are cluttered with "creating new instance" lines, e.g.:</p>			
<pre>Jun 08 17:08:13 2xpu4.arvadosapi.com arvados-dispatch-cloud[22656]: {"ContainerUUID": "2xpu4-dz642-egcge6nlcyxnhsf" ", "InstanceType": "m58xlarge.spot", "PID": 22656, "level": "info", "msg": "creating new instance", "time": "2021-06-08T17:08:13.598610198Z"} Jun 08 17:08:13 2xpu4.arvadosapi.com arvados-dispatch-cloud[22656]: {"ContainerUUID": "2xpu4-dz642-aexvhfezlpd2u71" ", "InstanceType": "m58xlarge.spot", "PID": 22656, "level": "info", "msg": "creating new instance", "time": "2021-06-08T17:08:13.598616679Z"} Jun 08 17:08:13 2xpu4.arvadosapi.com arvados-dispatch-cloud[22656]: {"ContainerUUID": "2xpu4-dz642-xhpx06i0ao54a3a" ", "InstanceType": "m58xlarge.spot", "PID": 22656, "level": "info", "msg": "creating new instance", "time": "2021-06-08T17:08:13.598623987Z"} Jun 08 17:08:13 2xpu4.arvadosapi.com arvados-dispatch-cloud[22656]: {"ContainerUUID": "2xpu4-dz642-p8o0tdro3r7p2y2" ", "InstanceType": "m58xlarge.spot", "PID": 22656, "level": "info", "msg": "creating new instance", "time": "2021-06-08T17:08:13.598630714Z"} Jun 08 17:08:13 2xpu4.arvadosapi.com arvados-dispatch-cloud[22656]: {"ContainerUUID": "2xpu4-dz642-91mie2u01zeushw" ", "InstanceType": "m58xlarge.spot", "PID": 22656, "level": "info", "msg": "creating new instance", "time": "2021-06-08T17:08:13.598637687Z"} Jun 08 17:08:13 2xpu4.arvadosapi.com arvados-dispatch-cloud[22656]: {"ContainerUUID": "2xpu4-dz642-596f3cnlaxlgo7k" ", "InstanceType": "m58xlarge.spot", "PID": 22656, "level": "info", "msg": "creating new instance", "time": "2021-06-08T17:08:13.705535475Z"} Jun 08 17:08:13 2xpu4.arvadosapi.com arvados-dispatch-cloud[22656]: {"ContainerUUID": "2xpu4-dz642-oyclj45rigf588i" ", "InstanceType": "m58xlarge.spot", "PID": 22656, "level": "info", "msg": "creating new instance", "time": "2021-06-08T17:08:13.705662410Z"} Jun 08 17:08:13 2xpu4.arvadosapi.com arvados-dispatch-cloud[22656]: {"ContainerUUID": "2xpu4-dz642-30jr9xd0qpazpqb" ", "InstanceType": "m58xlarge.spot", "PID": 22656, "level": "info", "msg": "creating new instance", "time": "2021-06-08T17:08:13.705698025Z"} Jun 08 17:08:13 2xpu4.arvadosapi.com arvados-dispatch-cloud[22656]: {"ContainerUUID": "2xpu4-dz642-91mie2u01zeushw" ", "InstanceType": "m58xlarge.spot", "PID": 22656, "level": "info", "msg": "creating new instance", "time": "2021-06-08T17:08:13.705722414Z"} Jun 08 17:08:13 2xpu4.arvadosapi.com arvados-dispatch-cloud[22656]: {"ContainerUUID": "2xpu4-dz642-ka4mirn7xrx7kng" ", "InstanceType": "m58xlarge.spot", "PID": 22656, "level": "info", "msg": "creating new instance", "time": "2021-06-08T17:08:13.705735563Z"} Jun 08 17:08:13 2xpu4.arvadosapi.com arvados-dispatch-cloud[22656]: {"ContainerUUID": "2xpu4-dz642-sgeierm62ho9isk" ", "InstanceType": "m58xlarge.spot", "PID": 22656, "level": "info", "msg": "creating new instance", "time": "2021-06-08T17:08:13.705746712Z"} Jun 08 17:08:13 2xpu4.arvadosapi.com arvados-dispatch-cloud[22656]: {"ContainerUUID": "2xpu4-dz642-r0xkpp8ijfkunsx" ", "InstanceType": "m58xlarge.spot", "PID": 22656, "level": "info", "msg": "creating new instance", "time": "2021-06-08T17:08:13.705758343Z"}</pre>			

Associated revisions

Revision dee20da0 - 09/16/2021 05:47 PM - Ward Vandewege

Merge branch '17770-fix-logging-while-throttled'

closes #17770

Arvados-DCO-1.1-Signed-off-by: Ward Vandewege <ward@curii.com>

History

#1 - 06/08/2021 05:08 PM - Ward Vandewege

- Description updated

#2 - 07/06/2021 09:08 PM - Peter Amstutz

- Target version deleted (To Be Groomed)

#3 - 09/16/2021 04:36 PM - Tom Clegg

In [source:lib/dispatchcloud/scheduler/run_queue.go](https://source.lib/dispatchcloud/scheduler/run_queue.go):

```
                } else if logger.Info("creating new instance"); sch.pool.Create(it) {  
// Success. (Note pool.Create works  
// asynchronously and does its own  
// logging, so we don't need to.)
```

Solution is probably be to call `sch.pool.Create()` first, then log "creating new instance" only if it returns true, i.e., the worker pool is trying to create a new instance in the background.

#4 - 09/16/2021 04:50 PM - Ward Vandewege

Tom Clegg wrote:

In [source:lib/dispatchcloud/scheduler/run_queue.go](https://source.lib/dispatchcloud/scheduler/run_queue.go):

[...]

Solution is probably be to call `sch.pool.Create()` first, then log "creating new instance" only if it returns true, i.e., the worker pool is trying to create a new instance in the background.

Oh, nice. I did that in [9792171cd97a576c34d85291ff64cbc29061fc08](https://ci.arvados.org/view/Developer/job/developer-run-tests/2693) and am running tests at <https://ci.arvados.org/view/Developer/job/developer-run-tests/2693>. Tests passed, I talked to Tom and am merging.

#5 - 09/16/2021 05:48 PM - Ward Vandewege

- Target version set to 2021-09-29 sprint

- Assigned To set to Ward Vandewege

- Status changed from New to In Progress

#6 - 09/16/2021 05:48 PM - Ward Vandewege

- % Done changed from 0 to 100

- Status changed from In Progress to Resolved

Applied in changeset [arvados|dee20da037920692508446dc5f10d71ee3ab1524](https://arvados.org/changeset/dee20da037920692508446dc5f10d71ee3ab1524).