

## Arvados - Bug #10408

### 4xphq keep balance api request causes oom on api server

10/31/2016 05:37 PM - Ward Vandewege

<b>Status:</b>	New	<b>Start date:</b>	10/31/2016
<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>	Arvados Future Sprints		

#### Description

On 4xphq, with the newly installed keep-balance (cf. #9966), I'm seeing:

#### keep-balance logs:

```
Oct 31 17:24:37 4xphq.arvadosapi.com keep-balance[8022]: 2016/10/31 17:24:37 timer went off
Oct 31 17:24:37 4xphq.arvadosapi.com keep-balance[8022]: 2016/10/31 17:24:37 starting next run
Oct 31 17:24:37 4xphq.arvadosapi.com keep-balance[8022]: 2016/10/31 17:24:37 Run: start
Oct 31 17:24:37 4xphq.arvadosapi.com keep-balance[8022]: 2016/10/31 17:24:37 skipping
4xphq-bi614-rbtrws2jxul6i4t with service type "proxy"
Oct 31 17:24:37 4xphq.arvadosapi.com keep-balance[8022]: 2016/10/31 17:24:37 GetCurrentState: start
Oct 31 17:24:37 4xphq.arvadosapi.com keep-balance[8022]: 2016/10/31 17:24:37
4xphq-bi614-8009ayh02ibjfp (keep1.4xphq.arvadosapi.com:25107, s3): retrieve index
Oct 31 17:24:37 4xphq.arvadosapi.com keep-balance[8022]: 2016/10/31 17:24:37
4xphq-bi614-dk9mjspdq2v8mhq (keep0.4xphq.arvadosapi.com:25107, s3): retrieve index
Oct 31 17:24:37 4xphq.arvadosapi.com keep-balance[8022]: 2016/10/31 17:24:37 collections: 0/25457
Oct 31 17:24:38 4xphq.arvadosapi.com keep-balance[8022]: 2016/10/31 17:24:38 collections: 1000/25457
Oct 31 17:24:39 4xphq.arvadosapi.com keep-balance[8022]: 2016/10/31 17:24:39 collections: 2000/25457
Oct 31 17:24:51 4xphq.arvadosapi.com keep-balance[8022]: 2016/10/31 17:24:51
4xphq-bi614-8009ayh02ibjfp (keep1.4xphq.arvadosapi.com:25107, s3): add 37685 replicas to map
Oct 31 17:24:51 4xphq.arvadosapi.com keep-balance[8022]: 2016/10/31 17:24:51
4xphq-bi614-8009ayh02ibjfp (keep1.4xphq.arvadosapi.com:25107, s3): done
Oct 31 17:24:52 4xphq.arvadosapi.com keep-balance[8022]: 2016/10/31 17:24:52
4xphq-bi614-dk9mjspdq2v8mhq (keep0.4xphq.arvadosapi.com:25107, s3): add 37685 replicas to map
Oct 31 17:24:52 4xphq.arvadosapi.com keep-balance[8022]: 2016/10/31 17:24:52
4xphq-bi614-dk9mjspdq2v8mhq (keep0.4xphq.arvadosapi.com:25107, s3): done
Oct 31 17:25:13 4xphq.arvadosapi.com keep-balance[8022]: 2016/10/31 17:25:13 GetCurrentState: took 35.815118053s
Oct 31 17:25:13 4xphq.arvadosapi.com keep-balance[8022]: 2016/10/31 17:25:13 Run: took 35.846179352s
Oct 31 17:25:13 4xphq.arvadosapi.com keep-balance[8022]: 2016/10/31 17:25:13 run failed: request failed: {https <nil> 4xphq.arvadosapi.com:443 /arvados/v1/collections %!s(bool=false) filters=%5B%5B%22modified_at%22%2C%22%5Cu003e%3D%22%2C%222014-11-07T15%3A42%3A32.50418Z%22%5D%2C%5B%22uuid%22%2C%22%21%3D%22%2C%224xphq-4zz18-ttsnywvm921kkw8%22%5D%5D&limit=100000&order=modified_at%2C+uuid&select=%5B%22uuid%22%2C%22manifest_text%22%2C%22modified_at%22%2C%22portable_data_hash%22%2C%22replication_desired%22%5D ): 422 Unprocessable Entity
```

#### api server logs:

```
#<NoMemoryError: failed to allocate memory>
/var/www/arvados-api/current/app/controllers/application_controller.rb:188:in `dump'
/var/www/arvados-api/current/app/controllers/application_controller.rb:188:in `send_json'
/var/www/arvados-api/current/app/controllers/application_controller.rb:494:in `render_list'
/var/www/arvados-api/current/app/controllers/application_controller.rb:75:in `index'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-3.2.17/lib/action_controller/metal/implicit_render.rb:4:in `send_action'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-3.2.17/lib/abstract_controller/base.rb:167:in `process_action'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-3.2.17/lib/action_controller/
```

```
metal/rendering.rb:10:in `process_action'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-3.2.17/lib/abstract_controller/callbacks.rb:18:in `block in process_action'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activestorage-3.2.17/lib/active_storage/callbacks.rb:590:in `__run__36149969870514075__process_action__2372069873549583241__callbacks'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activestorage-3.2.17/lib/active_storage/callbacks.rb:405:in `__run_callback'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activestorage-3.2.17/lib/active_storage/callbacks.rb:385:in `_run_process_action_callbacks'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activestorage-3.2.17/lib/active_storage/callbacks.rb:81:in `run_callbacks'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-3.2.17/lib/abstract_controller/callbacks.rb:17:in `process_action'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-3.2.17/lib/action_controller/metal/rescue.rb:29:in `process_action'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-3.2.17/lib/action_controller/metal/instrumentation.rb:30:in `block in process_action'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activestorage-3.2.17/lib/active_storage/notifications.rb:123:in `block in instrument'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activestorage-3.2.17/lib/active_storage/notifications/instrumenter.rb:20:in `instrument'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activestorage-3.2.17/lib/active_storage/notifications.rb:123:in `instrument'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-3.2.17/lib/action_controller/metal/instrumentation.rb:29:in `process_action'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-3.2.17/lib/action_controller/metal/params_wrapper.rb:207:in `process_action'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activerecord-3.2.17/lib/active_record/railties/controller_runtime.rb:18:in `process_action'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-3.2.17/lib/abstract_controller/base.rb:121:in `process'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-3.2.17/lib/abstract_controller/rendering.rb:45:in `process'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-3.2.17/lib/action_controller/metal.rb:203:in `dispatch'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-3.2.17/lib/action_controller/metal/rack_delegation.rb:14:in `dispatch'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-3.2.17/lib/action_controller/metal.rb:246:in `block in action'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-3.2.17/lib/action_dispatch/routing/route_set.rb:73:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-3.2.17/lib/action_dispatch/routing/route_set.rb:73:in `dispatch'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-3.2.17/lib/action_dispatch/routing/route_set.rb:36:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/journey-1.0.4/lib/journey/router.rb:68:in `block in call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/journey-1.0.4/lib/journey/router.rb:56:in `each'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/journey-1.0.4/lib/journey/router.rb:56:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-3.2.17/lib/action_dispatch/routing/route_set.rb:608:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/omniauth-1.1.1/lib/omniauth/strategy.rb:177:in `call!'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/omniauth-1.1.1/lib/omniauth/strategy.rb:157:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/omniauth-1.1.1/lib/omniauth/builder.rb:48:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-3.2.17/lib/action_dispatch/middleware/best_standards_support.rb:17:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/rack-1.4.5/lib/rack/etag.rb:23:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/rack-1.4.5/lib/rack/conditionalget.rb:25:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-3.2.17/lib/action_dispatch/middleware/head.rb:14:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-3.2.17/lib/action_dispatch/mi
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ddleware/params_parser.rb:21:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-3.2.17/lib/action_dispatch/mi
ddleware/flash.rb:242:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/rack-1.4.5/lib/rack/session/abstract/id.
rb:210:in `context'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/rack-1.4.5/lib/rack/session/abstract/id.
rb:205:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-3.2.17/lib/action_dispatch/mi
ddleware/cookies.rb:341:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activerecord-3.2.17/lib/active_record/qu
ery_cache.rb:64:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activerecord-3.2.17/lib/active_record/co
nnection_adapters/abstract/connection_pool.rb:479:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-3.2.17/lib/action_dispatch/mi
ddleware/callbacks.rb:28:in `block in call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-3.2.17/lib/active_support/
callbacks.rb:405:in `_run__2636124107984033352__call__75134247275516573__callbacks'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-3.2.17/lib/active_support/
callbacks.rb:405:in `__run_callback'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-3.2.17/lib/active_support/
callbacks.rb:385:in `_run_call_callbacks'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-3.2.17/lib/active_support/
callbacks.rb:81:in `run_callbacks'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-3.2.17/lib/action_dispatch/mi
ddleware/callbacks.rb:27:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-3.2.17/lib/action_dispatch/mi
ddleware/debug_exceptions.rb:16:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-3.2.17/lib/action_dispatch/mi
ddleware/show_exceptions.rb:56:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/lograge-0.3.6/lib/lograge/rails_ext/rack
/logger.rb:15:in `call_app'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/railties-3.2.17/lib/rails/rack/logger.rb
:16:in `block in call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-3.2.17/lib/active_support/
tagged_logging.rb:22:in `tagged'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/railties-3.2.17/lib/rails/rack/logger.rb
:16:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-3.2.17/lib/action_dispatch/mi
ddleware/request_id.rb:22:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/rack-1.4.5/lib/rack/methodoverride.rb:21
:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/rack-1.4.5/lib/rack/runtime.rb:17:in `ca
ll'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-3.2.17/lib/active_support/
cache/strategy/local_cache.rb:72:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/rack-1.4.5/lib/rack/lock.rb:15:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/rack-cache-1.2/lib/rack/cache/context.rb
:136:in `forward'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/rack-cache-1.2/lib/rack/cache/context.rb
:245:in `fetch'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/rack-cache-1.2/lib/rack/cache/context.rb
:185:in `lookup'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/rack-cache-1.2/lib/rack/cache/context.rb
:66:in `call!'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/rack-cache-1.2/lib/rack/cache/context.rb
:51:in `call'
/var/www/arvados-api/current/app/middlewares/arvados_api_token.rb:59:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-3.2.17/lib/action_dispatch/mi
ddleware/remote_ip.rb:31:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/railties-3.2.17/lib/rails/engine.rb:484:
in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/railties-3.2.17/lib/rails/application.rb
:231:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/railties-3.2.17/lib/rails/railtie/config
urable.rb:30:in `method_missing'
/usr/lib/ruby/vendor_ruby/phusion_passenger/rack/thread_handler_extension.rb:97:in `process_reques
t'
```

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/usr/lib/ruby/vendor_ruby/phusion_passenger/request_handler/thread_handler.rb:152:in `accept_and_p  
rocess_next_request'  
/usr/lib/ruby/vendor_ruby/phusion_passenger/request_handler/thread_handler.rb:113:in `main_loop'  
/usr/lib/ruby/vendor_ruby/phusion_passenger/request_handler.rb:416:in `block (3 levels) in start_t  
hreads'  
/usr/lib/ruby/vendor_ruby/phusion_passenger/utils.rb:113:in `block in create_thread_and_abort_on_e  
xception'
```

Error 1477935314+0c4830bc: 422

Once [#6830](#) is done, revisit keep-balance on 4xphq to see if that fixed the problem.

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**Related issues:**

Related to Arvados - Story #6830: [API] [keep-balance] Option to return unsig...

**Resolved**

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**History**

**#1 - 08/29/2017 02:08 PM - Tom Morris**

- Target version set to Arvados Future Sprints