

## Arvados - Bug #11917

### Error fetching collection (HttpError 422) during call to arvados.util.listdir\_recursive

06/29/2017 03:20 PM - Joshua Randall

<b>Status:</b>	Resolved	<b>Start date:</b>	06/29/2017
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assigned To:</b>	Tom Clegg	<b>% Done:</b>	100%
<b>Category:</b>	API	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>			
<b>Description</b>			
<pre>2017-06-27_15:17:34 <a href="#">z8ta6-8i9sb-b6xy0airw233wkt</a> 21286 151 stderr 2017-06-27 16:17:34 arvados.arvados_fuse[45815] ERROR: Error fetching collection 'f23f6b30aa7d658b565af6d4e2e5368a+9409': Failed to retrieve collection 'f23f6b30aa7d658b565af6d4e2e5368a+9409' from either AP I server (&lt;HttpError 422 when requesting https://api.arvados.sanger.ac.uk/arvados/v1/collections/f 23f6b30aa7d658b565af6d4e2e5368a%2B9409?alt=json returned "#&lt;Errno::ENOENT: No such file or directo ry @ rb_sysopen - /var/www/arvados-api/current/tmp/cache/94F/070/.permissions_check.70302752543300 .5829.180478&gt;"&gt;) or Keep (f23f6b30aa7d658b565af6d4e2e5368a+9409 not found: http://humgen-01-01.in ternal.sanger.ac.uk:25107/ responded with 404 HTTP/1.1 404 Not Found\015 2017-06-27_15:17:34 <a href="#">z8ta6-8i9sb-b6xy0airw233wkt</a> 21286 151 stderr ; http://humgen-03-02.internal.sanger.ac.uk:25107/ responded with 404 HTTP/1.1 404 Not Found\015 2017-06-27_15:17:34 <a href="#">z8ta6-8i9sb-b6xy0airw233wkt</a> 21286 151 stderr ; http://humgen-04-03.internal.sanger.ac.uk:25107/ responded with 404 HTTP/1.1 404 Not Found\015 2017-06-27_15:17:34 <a href="#">z8ta6-8i9sb-b6xy0airw233wkt</a> 21286 151 stderr ; http://humgen-02-03.internal.sanger.ac.uk:25107/ responded with 404 HTTP/1.1 404 Not Found\015 2017-06-27_15:17:34 <a href="#">z8ta6-8i9sb-b6xy0airw233wkt</a> 21286 151 stderr ; http://humgen-03-03.internal.sanger.ac.uk:25107/ responded with 404 HTTP/1.1 404 Not Found\015 2017-06-27_15:17:34 <a href="#">z8ta6-8i9sb-b6xy0airw233wkt</a> 21286 151 stderr ; http://humgen-02-02.internal.sanger.ac.uk:25107/ responded with 404 HTTP/1.1 404 Not Found\015 2017-06-27_15:17:34 <a href="#">z8ta6-8i9sb-b6xy0airw233wkt</a> 21286 151 stderr ; http://humgen-03-01.internal.sanger.ac.uk:25107/ responded with 404 HTTP/1.1 404 Not Found\015 2017-06-27_15:17:34 <a href="#">z8ta6-8i9sb-b6xy0airw233wkt</a> 21286 151 stderr ; http://humgen-01-03.internal.sanger.ac.uk:25107/ responded with 404 HTTP/1.1 404 Not Found\015 2017-06-27_15:17:34 <a href="#">z8ta6-8i9sb-b6xy0airw233wkt</a> 21286 151 stderr ; http://humgen-02-01.internal.sanger.ac.uk:25107/ responded with 404 HTTP/1.1 404 Not Found\015 2017-06-27_15:17:34 <a href="#">z8ta6-8i9sb-b6xy0airw233wkt</a> 21286 151 stderr ; http://humgen-04-02.internal.sanger.ac.uk:25107/ responded with 404 HTTP/1.1 404 Not Found\015 2017-06-27_15:17:34 <a href="#">z8ta6-8i9sb-b6xy0airw233wkt</a> 21286 151 stderr ; http://humgen-04-01.internal.sanger.ac.uk:25107/ responded with 404 HTTP/1.1 404 Not Found\015 2017-06-27_15:17:34 <a href="#">z8ta6-8i9sb-b6xy0airw233wkt</a> 21286 151 stderr ; http://humgen-01-02.internal.sanger.ac.uk:25107/ responded with 404 HTTP/1.1 404 Not Found\015 2017-06-27_15:17:34 <a href="#">z8ta6-8i9sb-b6xy0airw233wkt</a> 21286 151 stderr ). 2017-06-27_15:17:34 <a href="#">z8ta6-8i9sb-b6xy0airw233wkt</a> 21286 151 stderr Traceback (most recent call last): 2017-06-27_15:17:34 <a href="#">z8ta6-8i9sb-b6xy0airw233wkt</a> 21286 151 stderr File "/data/crunch-tmp/crunch-job/src/crunch_scripts/gatk-haplotypecaller-cram .py", line 99, in &lt;module&gt; 2017-06-27_15:17:34 <a href="#">z8ta6-8i9sb-b6xy0airw233wkt</a> 21286 151 stderr main() 2017-06-27_15:17:34 <a href="#">z8ta6-8i9sb-b6xy0airw233wkt</a> 21286 151 stderr File "/data/crunch-tmp/crunch-job/src/crunch_scripts/gatk-haplotypecaller-cram .py", line 54, in main</pre>			

```

2017-06-27_15:17:34 z8ta6-8i9sb-b6xy0airw233wkt
21286 151 stderr      cram_file = gatk_helper.mount_gatk_cram_input(input_param="input")
2017-06-27_15:17:34 z8ta6-8i9sb-b6xy0airw233wkt
21286 151 stderr      File "/data/crunch-tmp/crunch-job/src/crunch_scripts/hgi_arvados/gatk_helper.p
y", line 81, in mount_gatk_cram_input
2017-06-27_15:17:34 z8ta6-8i9sb-b6xy0airw233wkt
21286 151 stderr      for f in arvados.util.listdir_recursive(input_dir):
2017-06-27_15:17:34 z8ta6-8i9sb-b6xy0airw233wkt
21286 151 stderr      File "/usr/lib/python2.7/dist-packages/arvados/util.py", line 332, in listdir_
recursive
2017-06-27_15:17:34 z8ta6-8i9sb-b6xy0airw233wkt
21286 151 stderr      for ent in sorted(os.listdir(dirname)):
2017-06-27_15:17:34 z8ta6-8i9sb-b6xy0airw233wkt
21286 151 stderr      OSError: [Errno 2] No such file or directory: '/keep/f23f6b30aa7d658b565af6d4e2e
5368a+9409'
2017-06-27_15:17:34 z8ta6-8i9sb-b6xy0airw233wkt
21286 151 child 29639 on humgen-02-01.16 exit 1 success=
2017-06-27_15:17:34 z8ta6-8i9sb-b6xy0airw233wkt
21286 151 ERROR: Task process exited 1, but never updated its task record to indicate success and
record its output.
2017-06-27_15:17:34 z8ta6-8i9sb-b6xy0airw233wkt 21286 151 failure (#1, permanent) after 35 seconds

```

**Subtasks:**

Task # 11940: Review 11917-dont-clear-cache **Resolved**

**Related issues:**

Related to Arvados - Bug #11470: [API] container\_requests#update alternately ... **Resolved**    **04/12/2017**

**Associated revisions**

**Revision d084ca24 - 07/10/2017 08:19 PM - Tom Clegg**

Merge branch '11917-dont-clear-cache'

refs #11917

Arvados-DCO-1.1-Signed-off-by: Tom Clegg <[tom@curioverse.com](mailto:tom@curioverse.com)>

**History**

**#1 - 06/29/2017 03:24 PM - Joshua Randall**

From production.log:

```

[api.arvados.sanger] [8a7ec0e5-73f0-445d-aa8b-e7bf4442c444] #<Errno::ENOENT: No such file or directory @ rb_sy
sopen - /var/www/arvados-api/current/tmp/cache/94F/070/.permissions_check.70302752543300.5829.180478>
[api.arvados.sanger] [8a7ec0e5-73f0-445d-aa8b-e7bf4442c444] /usr/local/lib/ruby/2.1.0/fileutils.rb:1166:in `in
italize'
/usr/local/lib/ruby/2.1.0/fileutils.rb:1166:in `open'
/usr/local/lib/ruby/2.1.0/fileutils.rb:1166:in `rescue in block in touch'
/usr/local/lib/ruby/2.1.0/fileutils.rb:1162:in `block in touch'
/usr/local/lib/ruby/2.1.0/fileutils.rb:1160:in `each'
/usr/local/lib/ruby/2.1.0/fileutils.rb:1160:in `touch'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-4.2.5.2/lib/active_support/core_ext/fi
le/atomic.rb:58:in `probe_stat_in'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-4.2.5.2/lib/active_support/core_ext/fi
le/atomic.rb:32:in `atomic_write'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-4.2.5.2/lib/active_support/cache/file_
store.rb:83:in `write_entry'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-4.2.5.2/lib/active_support/cache/strat
egy/local_cache.rb:115:in `write_entry'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-4.2.5.2/lib/active_support/cache.rb:39
1:in `block in write'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-4.2.5.2/lib/active_support/cache.rb:54
7:in `block in instrument'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-4.2.5.2/lib/active_support/notificatio
ns.rb:166:in `instrument'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-4.2.5.2/lib/active_support/cache.rb:54
7:in `instrument'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-4.2.5.2/lib/active_support/cache.rb:38
9:in `write'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-4.2.5.2/lib/active_support/cache.rb:58
8:in `save_block_result_to_cache'

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/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-4.2.5.2/lib/active_support/cache.rb:29
9:in `fetch'
/var/www/arvados-api/current/lib/sweep_trashed_collections.rb:21:in `sweep_if_stale'
/var/www/arvados-api/current/app/models/collection.rb:441:in `where'
/var/www/arvados-api/current/app/controllers/arvados/v1/collections_controller.rb:28:in `find_object_by_uuid'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-4.2.5.2/lib/active_support/callbacks.r
b:432:in `block in make_lambda'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-4.2.5.2/lib/active_support/callbacks.r
b:145:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-4.2.5.2/lib/active_support/callbacks.r
b:145:in `block in halting_and_conditional'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-4.2.5.2/lib/active_support/callbacks.r
b:504:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-4.2.5.2/lib/active_support/callbacks.r
b:504:in `block in call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-4.2.5.2/lib/active_support/callbacks.r
b:504:in `each'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-4.2.5.2/lib/active_support/callbacks.r
b:504:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-4.2.5.2/lib/active_support/callbacks.r
b:92:in `__run_callbacks__'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-4.2.5.2/lib/active_support/callbacks.r
b:778:in `_run_process_action_callbacks'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-4.2.5.2/lib/active_support/callbacks.r
b:81:in `run_callbacks'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-4.2.5.2/lib/abstract_controller/callbacks
.rb:19:in `process_action'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-4.2.5.2/lib/action_controller/metal/rescu
e.rb:29:in `process_action'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-4.2.5.2/lib/action_controller/metal/instr
umentation.rb:32:in `block in process_action'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-4.2.5.2/lib/active_support/notificatio
ns.rb:164:in `block in instrument'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-4.2.5.2/lib/active_support/notificatio
ns/instrumenter.rb:20:in `instrument'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-4.2.5.2/lib/active_support/notificatio
ns.rb:164:in `instrument'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-4.2.5.2/lib/action_controller/metal/instr
umentation.rb:30:in `process_action'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-4.2.5.2/lib/action_controller/metal/param
s_wrapper.rb:250:in `process_action'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activerecord-4.2.5.2/lib/active_record/railties/cont
roller_runtime.rb:18:in `process_action'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-4.2.5.2/lib/abstract_controller/base.rb:1
37:in `process'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionview-4.2.5.2/lib/action_view/rendering.rb:30:i
n `process'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-4.2.5.2/lib/action_controller/metal.rb:19
6:in `dispatch'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-4.2.5.2/lib/action_controller/metal/rack_
delegation.rb:13:in `dispatch'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-4.2.5.2/lib/action_controller/metal.rb:23
7:in `block in action'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-4.2.5.2/lib/action_dispatch/routing/route
_set.rb:74:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-4.2.5.2/lib/action_dispatch/routing/route
_set.rb:74:in `dispatch'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-4.2.5.2/lib/action_dispatch/routing/route
_set.rb:43:in `serve'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-4.2.5.2/lib/action_dispatch/journey/route
r.rb:43:in `block in serve'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-4.2.5.2/lib/action_dispatch/journey/route
r.rb:30:in `each'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-4.2.5.2/lib/action_dispatch/journey/route
r.rb:30:in `serve'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-4.2.5.2/lib/action_dispatch/routing/route
_set.rb:815:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/omniauth-1.4.2/lib/omniauth/strategy.rb:186:in `call
!'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/omniauth-1.4.2/lib/omniauth/strategy.rb:164:in `call
'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/omniauth-1.4.2/lib/omniauth/builder.rb:63:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/rack-1.6.5/lib/rack/etag.rb:24:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/rack-1.6.5/lib/rack/conditionalget.rb:25:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/rack-1.6.5/lib/rack/head.rb:13:in `call'
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/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-4.2.5.2/lib/action_dispatch/middleware/params_parser.rb:27:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-4.2.5.2/lib/action_dispatch/middleware/flash.rb:260:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/rack-1.6.5/lib/rack/session/abstract/id.rb:225:in `context'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/rack-1.6.5/lib/rack/session/abstract/id.rb:220:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-4.2.5.2/lib/action_dispatch/middleware/cookies.rb:560:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activerecord-4.2.5.2/lib/active_record/query_cache.rb:36:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activerecord-4.2.5.2/lib/active_record/connection_adapters/abstract/connection_pool.rb:653:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-4.2.5.2/lib/action_dispatch/middleware/callbacks.rb:29:in `block in call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-4.2.5.2/lib/active_support/callbacks.rb:88:in `__run_callbacks__'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-4.2.5.2/lib/active_support/callbacks.rb:778:in `_run_call_callbacks'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-4.2.5.2/lib/active_support/callbacks.rb:81:in `run_callbacks'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-4.2.5.2/lib/action_dispatch/middleware/callbacks.rb:27:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-4.2.5.2/lib/action_dispatch/middleware/debug_exceptions.rb:17:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-4.2.5.2/lib/action_dispatch/middleware/show_exceptions.rb:30:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/lograge-0.4.1/lib/lograge/rails_ext/rack/logger.rb:15:in `call_app'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/railties-4.2.5.2/lib/rails/rack/logger.rb:20:in `block in call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-4.2.5.2/lib/active_support/tagged_logging.rb:68:in `block in tagged'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-4.2.5.2/lib/active_support/tagged_logging.rb:26:in `tagged'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-4.2.5.2/lib/active_support/tagged_logging.rb:68:in `tagged'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/railties-4.2.5.2/lib/rails/rack/logger.rb:20:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/actionpack-4.2.5.2/lib/action_dispatch/middleware/request_id.rb:21:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/rack-1.6.5/lib/rack/methodoverride.rb:22:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/rack-1.6.5/lib/rack/runtime.rb:18:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/activesupport-4.2.5.2/lib/active_support/cache/strategy/local_cache_middleware.rb:28:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/rack-1.6.5/lib/rack/sendfile.rb:113: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-4.2.5.2/lib/action_dispatch/middleware/remote_ip.rb:78:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/railties-4.2.5.2/lib/rails/engine.rb:518:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/railties-4.2.5.2/lib/rails/application.rb:165:in `call'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/railties-4.2.5.2/lib/rails/railtie.rb:194:in `public_send'
/var/www/arvados-api/shared/vendor_bundle/ruby/2.1.0/gems/railties-4.2.5.2/lib/rails/railtie.rb:194:in `method_missing'
/usr/lib/ruby/vendor_ruby/phusion_passenger/rack/thread_handler_extension.rb:97:in `process_request'
/usr/lib/ruby/vendor_ruby/phusion_passenger/request_handler/thread_handler.rb:152:in `accept_and_process_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_threads'
/usr/lib/ruby/vendor_ruby/phusion_passenger/utils.rb:113:in `block in create_thread_and_abort_on_exception'
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```
[api.arvados.sanger] [8a7ec0e5-73f0-445d-aa8b-e7bf4442c444] Error 1498576650+aad9240b: 422
[api.arvados.sanger] [8a7ec0e5-73f0-445d-aa8b-e7bf4442c444] {"method":"GET","path":"/arvados/v1/collections/f23f6b30aa7d658b565af6d4e2e5368a%2B9409","format":"json","controller":"Arvados::V1::CollectionsController","action":"show","status":422,"duration":4.1,"view":0.61,"db":0.0,"params":{"alt":"json"},"@timestamp":"2017-06-27T15:17:30.345208864Z","@version":"1","message":["422] GET /arvados/v1/collections/f23f6b30aa7d658b565af6d4e2e5368a%2B9409 (Arvados::V1::CollectionsController#show)"}

```

## #2 - 06/29/2017 03:27 PM - Tom Clegg

This code looks like a supported use of Rails cache:

```
Rails.cache.fetch('SweepTrashedCollections', expires_in: exp) do
  need = true
end
```

### #3 - 06/29/2017 03:42 PM - Tom Clegg

In `activesupport-4.2.5.2/lib/active_support/cache/file_store.rb`

```
def write_entry(key, entry, options)
  file_name = key_file_path(key)
  return false if options[:unless_exist] && File.exist?(file_name)
  ensure_cache_path(File.dirname(file_name))
  File.atomic_write(file_name, cache_path) {|f| Marshal.dump(entry, f)}
  true
end
```

Perhaps empty cache directories are being deleted between "ensure\_cache\_path" and "File.atomic\_write"?

### #4 - 06/29/2017 03:51 PM - Tom Clegg

We do this in [source:services/api/config/environment.rb](https://github.com/rails/rails/blob/master/activesupport/lib/active_support/cache/environment.rb):

```
# Initialize the rails application
Server::Application.initialize!
begin
  Rails.cache.clear
rescue Errno::ENOENT => e
  # Cache directory does not exist? Then cache is clear, proceed.
  Rails.logger.warn "In Rails.cache.clear, ignoring #{e.inspect}"
end
```

I'm guessing this is what's clearing the cache directories. It's possible this is running every time Passenger brings up a new worker. It's very likely it is also running every time a rake task is invoked by cron. We should fix this so it only runs once at server startup, and never on periodic rake tasks... or perhaps so it doesn't run at all.

### #5 - 06/30/2017 05:53 PM - Tom Clegg

11917-dont-clear-cache @ [e8d11e963248fada51bdb1ecc59446adccff440f](https://github.com/rails/rails/pull/24848)

### #6 - 06/30/2017 05:53 PM - Tom Clegg

- Category set to API
- Status changed from New to In Progress
- Assigned To set to Tom Clegg

### #7 - 07/05/2017 07:30 PM - Tom Morris

- Target version set to 2017-07-19 sprint

### #8 - 07/07/2017 01:32 AM - Radhika Chippada

Is the cache LRU? [http://guides.rubyonrails.org/caching\\_with\\_rails.html](http://guides.rubyonrails.org/caching_with_rails.html) says: "As the cache will grow until the disk is full, it is recommended to periodically clear out old entries." But I couldn't tell how / if this is being done in our server.

### #9 - 07/10/2017 08:17 PM - Tom Clegg

We use expiry times and a finite number of keys, so the cache shouldn't grow indefinitely.

We should add a cache-clearing thing that does "delete all entries matching \*" instead of the non-race-safe "clear" method. And choose a better moment to run it, so it doesn't clear every time someone runs a rails-based maintenance cron job...

### #10 - 07/10/2017 09:56 PM - Tom Morris

"expiry times" == "clear out old entries"

Perhaps we could put a rake `tmp:cache:clear` in the API server boot script if we're really concerned about stale cache space from e.g. a server crash, but otherwise it sounds like the combination of limited keys and expiry times should do the trick.

### #11 - 07/17/2017 02:05 PM - Tom Clegg

- Status changed from In Progress to Feedback

### #12 - 07/19/2017 07:00 PM - Tom Clegg

- Target version changed from 2017-07-19 sprint to Arvados Future Sprints
- Story points set to 0.0

**#13 - 03/14/2018 07:45 PM - Tom Clegg**

- Status changed from Feedback to Resolved
- Story points deleted (0.0)

**#14 - 07/18/2018 03:12 PM - Tom Morris**

- Target version deleted (Arvados Future Sprints)