Arvados - Bug #15275

[API] Collection DELETE call fail when versioning is active

05/23/2019 08:07 PM - Lucas Di Pentima

Status:	Resolved		**Start date:**	05/24/2019
Priority:	Normal		**Due date:**	
Assigned To:	Lucas Di Pentima		**% Done:**	100%
Category:	API		**Estimated time:**	0.00 hour
Target version:	2019-06-05 Sprint			

Description

```
req-5qyagztkh70zbk8bkvwj] Missing signature on locator a04da5d2fc3101a71e19146b1a1b238b+36
#<ArvadosModel::PermissionDeniedError: ArvadosModel::PermissionDeniedError>
Error 1558631657+1fe7d861: 403
{"method":"DELETE","path":"/arvados/v1/collections/c97qk-4zz18-3x18ksisv6vtu1y","format":"json","c
ontroller":"Arvados::V1::CollectionsController","action":"destroy","status":403,"duration":43.67,"
view":0.41,"db":11.57,"request_id":"req-5qyagztkh70zbk8bkvwj","client_ipaddr":"54.209.184.185","cl
ient_auth":"4xphq-gj3su-fwroumji2qsa9tv
","params":{"_profile":"true","help":"false","uuid_given":"true"},"@timestamp":"2019-05-23T17:14:1
7.400122232Z","@version":"1","message":"[403] DELETE /arvados/v1/collections/c97qk-4zz18-3x18ksisv
6vtu1y (Arvados::V1::CollectionsController#destroy)"}
```

Previous investigation done by Peter points the cause of this to the manage_versioning callback. It should not try to make a snapshot when deleting a collection.

Subtasks:

Task # 15277: Review 15275-collection-delete-bugfix	**Resolved**
Task # 15280: Review 15275-attribute-dirtyness-bugfix	**Resolved**

Related issues:

Related to Arvados - Bug #15261: run-tests-federation failing on jenkins	**Resolved**

Associated revisions

Revision cdc0e1ac - 05/24/2019 06:11 PM - Lucas Di Pentima

Merge branch '15275-collection-delete-bugfix'. Refs #15275

Arvados-DCO-1.1-Signed-off-by: Lucas Di Pentima <ldipentima@veritasgenetics.com>

Revision 2ea6b118 - 05/28/2019 03:41 PM - Lucas Di Pentima

Merge branch '15275-attribute-dirtyness-bugfix'
Closes #15275

Arvados-DCO-1.1-Signed-off-by: Lucas Di Pentima <ldipentima@veritasgenetics.com>

History

#1 - 05/23/2019 08:11 PM - Peter Amstutz

The problem seems to be in manage_versioning:

1) When there are multiple fields in properties, should_preserve_version shows properties_changed? is true despite having the same values:

[req-1ja5jj5l0oq83reh1szm] properties true '{"type"=>"output", "container_request"=>"c97qk-xvhdp-sjkop3tbii0x6ov"}' '{"type"=> output", "container_request"=>"c97qk-xvhdp-sjkop3tbii0x6ov"}'

2) Because properties_changed? is true, should_preserve_version? returns true and it determines it should create a snapshot.

3) On the snapshot object, it sets snapshot.manifest_text = self.signed_manifest_text. However, because is_trashed is true (because this is a delete operation) it returns the manifest text unsigned.

4) When it saves the snapshot, the manifest text is not signed, so it raises the "Unsigned manifest" error.

I see a couple of issues here:

- properties_changed? is true, but it should not be
- signing the manifest is a workaround, it would work to do this?

```
      leave_modified_by_user_alone do
        act_as_system_user do
          snapshot.save!
        end
      end
```

#2 - 05/23/2019 08:58 PM - Lucas Di Pentima

- Description updated

#3 - 05/23/2019 09:02 PM - Peter Amstutz

[c97qk-4zz18-3x18ksisv6vtu1y](#) is the collection where I see this happen.

Note I'm issuing this as a federated request (home cluster 4xphq, which forwards the delete request to c97qk) but I don't believe there's anything specific to federation about this bug.

It is important to use a non-admin user, though.

#4 - 05/23/2019 09:11 PM - Peter Amstutz

Properties being incorrectly considered "dirty" may be a Rails 5 bug:

https://github.com/rails/rails/issues/28754

#5 - 05/23/2019 09:12 PM - Peter Amstutz

- Related to Bug #15261: run-tests-federation failing on jenkins added

#6 - 05/23/2019 09:21 PM - Peter Amstutz

- Assigned To set to Lucas Di Pentima

#7 - 05/24/2019 03:56 PM - Lucas Di Pentima

Updates at [be66896514a5dccf6364a414d44391a3015592c5](#) - branch 15275-collection-delete-bugfix
Test run: https://ci.curoverse.com/job/developer-run-tests/1256/

This issue was caused by several bugs:

1) Snapshot being created when deleting a collection
2) Permission denied error when trying to create the new snapshot
3) The properties field is being detected as dirty when it isn't

This update fixes the permission denied problem and avoids create a snapshot when trashing a collection. This should be enough to unblock the federated tests.

#8 - 05/24/2019 05:47 PM - Peter Amstutz

```
return false if self.changes.keys.include?('is_trashed') && self.is_trashed_was == false
```

What's the rationale for this and not just "self.is_trashed == true" ? "Trashed collection don't create snapshots" seems like a reasonable behavior and one we could explicitly document.

```
  def is_past_version?
    if !new_record? && self.current_version_uuid_was != self.uuid_was
```

Why compare _was instead of comparing the current values?

#9 - 05/24/2019 05:59 PM - Peter Amstutz

is_past_version? can be written simpler:

```
def is_past_version?
   !(new_record? || self.current_version_uuid_was == self.uuid_was)
end
```

#10 - 05/24/2019 06:03 PM - Lucas Di Pentima

Updates at [082ca2b56](#)
Test run: https://ci.curoverse.com/job/developer-run-tests/1257/

- Don't create a new version if is_trashed is true.
- Simplified code on is_path_version? method.

#11 - 05/24/2019 06:05 PM - Peter Amstutz

Lucas Di Pentima wrote:

> Updates at [082ca2b56](#)
> Test run: https://ci.curoverse.com/job/developer-run-tests/1257/
>
> - Don't create a new version if is_trashed is true.
> - Simplified code on is_path_version? method.

This LGTM.

#12 - 05/24/2019 09:16 PM - Lucas Di Pentima

Last bugfix at [34729fcb1](#) - branch 15275-attribute-dirtyness-bugfix
Test run: https://ci.curoverse.com/job/developer-run-tests/1259/

Changes the way our custom types for JSONB columns check if the attributes changes by comparing the deserialized versions to avoid ordering or other problems when it comes to value comparison.

#13 - 05/28/2019 01:20 PM - Peter Amstutz

Lucas Di Pentima wrote:

> Last bugfix at [34729fcb1](#) - branch 15275-attribute-dirtyness-bugfix
> Test run: https://ci.curoverse.com/job/developer-run-tests/1259/
>
> Changes the way our custom types for JSONB columns check if the attributes changes by comparing the deserialized versions to avoid ordering or other problems when it comes to value comparison.

~~This LGTM.~~

Sorry I take that back, we should add a few tests to confirm that hashes with nested arrays, nested hashes, or nil values are compared properly.

#14 - 05/28/2019 02:30 PM - Lucas Di Pentima

Updates at [5006b4b74](#)
Test run: https://ci.curoverse.com/job/developer-run-tests/1261/

Adds several test cases for nested hashes, arrays in different ordering, etc.

#15 - 05/28/2019 03:57 PM - Lucas Di Pentima

- Status changed from In Progress to Resolved

- % Done changed from 50 to 100

Applied in changeset [arvados|2ea6b118074ed5ca90754e20afd6b3621631e27d](#).