

Arvados - Bug #15306

[API] Ensure 0 and false are accepted as false for boolean params in a www-form-encoded body or query string, if they were in rails4.

06/04/2019 03:59 PM - Lucas Di Pentima

Status:	Resolved	Start date:	06/04/2019
Priority:	Normal	Due date:	
Assigned To:	Lucas Di Pentima	% Done:	100%
Category:	API	Estimated time:	0.00 hour
Target version:	2019-06-19 Sprint		
Description			
It seems that form-encoded (and maybe query string?) params are received as strings on the API on cases that should be boolean. E.g.: include_trash			
Subtasks:			
Task # 15312: Review 15306-api-nonjson-params			Resolved

Associated revisions

Revision de3ced15 - 06/06/2019 05:37 PM - Lucas Di Pentima

Merge branch '15306-api-nonjson-params'
Closes #15306

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

History

#1 - 06/04/2019 05:42 PM - Lucas Di Pentima

Added tests at [5ea0a240e](#) - branch 15306-api-nonjson-params

It seems that params are correctly interpreted (at least on the include_trash case), or maybe the tests aren't doing the right thing?

#2 - 06/04/2019 07:01 PM - Tom Clegg

If I add some debug printf's to railsAPI and do a test request with workbench->controller->railsAPI, I get this:

```
App 28128 output: find_objects_for_index: request original_url is "https://localhost:42701/arvados/v1/collections/zzzzz-4zz18-subprojgonecoll?include_trash=false"
App 28128 output: find_objects_for_index: request query_parameters is {"include_trash"=>"false"}
App 28128 output: find_objects_for_index: params[:include_trash] is "false", interpreting that as true
```

But when the tests in note-1 use ?include_trash=false, they work, and the debug printf says "params[:include_trash] is false, interpreting that as false."

I suspect the difference is that load_required_parameters() converts strings to bools, but we don't declare the include_trash parameter for the "show collection" action, so it doesn't get converted.

#3 - 06/04/2019 07:37 PM - Lucas Di Pentima

Updates at [0d5c86670](#) expose the bug. This happens also on the 1.3-dev branch so it's not a regression caused by the rails 5 upgrade.

#4 - 06/04/2019 08:40 PM - Lucas Di Pentima

Trying to see if this bug was introduced as a regression, I got to [87ea4388edb977d246b09b78d9d4bfa5c2ba5170](#) (from [#9587](#) - 2 years ago), and the tests fail the same. I'm stopping the digging to use the time to fix the issue.

#5 - 06/04/2019 11:39 PM - Lucas Di Pentima

More tests & fix at [b3d5254ce](#)
Test run: <https://ci.curoverse.com/job/developer-run-tests/1279/>

#6 - 06/05/2019 01:09 PM - Lucas Di Pentima

Groups also have the same problem. Added tests and fix on [18ae48a2e](#)
Test run: <https://ci.curoverse.com/job/developer-run-tests/1280/>

#7 - 06/05/2019 02:51 PM - Lucas Di Pentima

- Target version changed from 2019-06-05 Sprint to 2019-06-19 Sprint

#8 - 06/05/2019 04:10 PM - Tom Clegg

Does the JSON test really pass the include_trash parameter as JSON? The "show" half of the test says :format => :json but I think that is just specifying a desired response format.

I suspect that in order to pass JSON-encoded params to show/list, you need to do a post with :_method => "GET"...

As for the fix itself, it seems like this still leaves other similar loopholes open. Nearly all actions call find_object_by_uuid, which calls find_objects_for_index, which uses params[:include_trash] -- but only show and index go through the bool-parsing code. Perhaps we could close the loophole by calling a bool_param(:include_trash) method from application_controller.rb instead of using the raw params[:include_trash] value. That method can return false (or even error out) if the param isn't already a bool. If it isn't a bool by now then it wasn't declared by *_requires_parameters(), isn't a supported/advertised flag for the current action, and shouldn't be used.

#9 - 06/06/2019 01:57 PM - Lucas Di Pentima

Status update: [57eb9ae04](#) - Test run: <https://ci.curoverse.com/job/developer-run-tests/1284/>

Added a bool_param() method that returns the param if it exists and it's a boolean, or false. A wb integration test about trashed container requests started failing, so I added include_trash definitions on ContainerRequests#show & ContainerRequests#index, but the same integration test keeps failing, so I'm investigating.

#10 - 06/06/2019 05:00 PM - Lucas Di Pentima

Thanks to Tom for finding the obvious error I made. Fixed the previous failure by moving the param declarations from the CR model to the controller. Also added a log warning message when receiving non boolean parameters.

Updates at [e9a3a68fd](#) - Test run: <https://ci.curoverse.com/job/developer-run-tests/1285/>

#11 - 06/06/2019 05:36 PM - Tom Clegg

LGTM, thanks

#12 - 06/06/2019 05:45 PM - Lucas Di Pentima

- Status changed from In Progress to Resolved

- % Done changed from 0 to 100

Applied in changeset [arvados|de3ced158ccf579efbe9bfe0e23e03eb9417daeb](#).

#13 - 01/21/2020 09:12 PM - Peter Amstutz

- Release set to 22