

## Arvados - Story #13494

### Browse previous versions of a collection

05/16/2018 03:17 PM - Tom Clegg

<b>Status:</b> Resolved	<b>Start date:</b> 02/19/2020
<b>Priority:</b> Normal	<b>Due date:</b>
<b>Assigned To:</b> Lucas Di Pentima	<b>% Done:</b> 100%
<b>Category:</b> Workbench2	<b>Estimated time:</b> 0.00 hour
<b>Target version:</b> 2020-12-02 Sprint	
<b>Description</b> See <a href="#">Collection version history</a>  When viewing a collection in Workbench, a tab/button should show the history of prior changes. For each prior update, it should be possible to <ul style="list-style-type: none"><li>view/star/bookmark the selected version of the collection (name, description, files, etc. as they appeared after the update)</li><li>preview/download the files as they appeared in the selected version</li><li>copy the selected version into a new collection</li></ul>	
<b>Implementation</b> <ul style="list-style-type: none"><li>Build on work in <a href="#">#16718</a> and <a href="#">#16719</a></li><li>The version selector is built on the collapsable 'details' pane to the right (see attached mockup) instead of the currently unused "Activity" tab. This would allow us to minimize the quantity of UI changes when displaying past versions.<ul style="list-style-type: none"><li>The versions listing should be ordered by date with the current version at the top.</li></ul></li><li>Should include consideration for how <a href="#">#16300</a> will work (user needs to select two versions in order to display differences).</li></ul>	
<b>Subtasks:</b>	
Task # 16148: Grooming	<b>Resolved</b>
Task # 16324: Review 13494-collection-version-browser	<b>Resolved</b>
<b>Related issues:</b>	
Related to Arvados - Story #14086: [keep-web] Serve previous collection versions	<b>Resolved</b> 10/15/2018
Related to Arvados Epics - Story #15333: Workbench2 feature parity with Workb...	<b>Closed</b> 01/01/2020 12/31/2021
Related to Arvados - Feature #16718: Searching past collection versions	<b>Resolved</b> 10/13/2020
Related to Arvados - Feature #16719: Basic support for collection versions	<b>Resolved</b> 10/15/2020
Related to Arvados - Bug #17098: Collection "restore from previous version" b...	<b>Resolved</b> 11/25/2020
Blocked by Arvados - Feature #13561: [API] Store, and add APIs to retrieve, p...	<b>Resolved</b> 10/04/2018
Blocked by Arvados - Bug #16118: Offers editing actions on read-only collections	<b>Resolved</b> 02/28/2020
Blocks Arvados Workbench 2 - Story #16300: Compare 2 collection versions	<b>New</b>

### Associated revisions

#### Revision 3c2e3213 - 11/25/2020 05:31 PM - Lucas Di Pentima

Merge branch '13494-collection-version-browser'  
Closes #13494

Arvados-DCO-1.1-Signed-off-by: Lucas Di Pentima <[lucas@di-pentima.com.ar](mailto:lucas@di-pentima.com.ar)>

### History

#### #1 - 05/16/2018 03:17 PM - Tom Clegg

- Related to Feature #13109: Support collection versions added

#### #2 - 05/22/2018 08:30 PM - Tom Morris

- Target version set to To Be Groomed

#### #3 - 05/30/2018 02:13 PM - Tom Morris

When searching collections, the user should have an option to include non-current versions in the results -- at least when searching by PDH.

Including old versions should always be an available search option (off by default). I'm not sure why it's restricted to searches by PDH.

"Data blocks" is an implementation detail. From the user's point of view, there's just data and metadata.

It feels like we may want a version number which users can easily use to reference a particular version of a collection, rather than forcing them to rely on dates or logical UUID chains.

**#4 - 06/04/2018 01:47 PM - Tom Clegg**

- Description updated

**#5 - 06/04/2018 02:00 PM - Tom Clegg**

- Description updated

**#6 - 06/04/2018 04:40 PM - Tom Morris**

- Blocked by Feature #13561: [API] Store, and add APIs to retrieve, previous versions of collection objects added

**#7 - 07/11/2018 02:46 PM - Tom Clegg**

- Description updated

**#8 - 08/21/2018 05:35 PM - Lucas Di Pentima**

Some thoughts

- Update the collection view to show version list (using a dropdown widget?) and allowing the user to select another version of the collection
- URL for previous versions: `workbench.abcde.arvadosapi.com/collections/UUID/VERSION`
- On previous versions, the "Copy to project..." button may be replaced by "Copy as new version...". The "Move collection..." shouldn't appear
- On previous versions, the "Upload" tab shouldn't exist & file list should be read-only. The lock button isn't necessary.
- On previous versions, name & description can't be edited. Should "Sharing and permissions" pane appear?

**#9 - 08/21/2018 05:43 PM - Tom Clegg**

- Related to Story #14086: [keep-web] Serve previous collection versions added

**#10 - 10/31/2018 03:28 PM - Tom Morris**

- Related to deleted (Feature #13109: Support collection versions)

**#11 - 10/31/2018 03:30 PM - Tom Morris**

- Subject changed from [Workbench] View/copy/expunge previous versions of a collection to [Workbench2] View/copy/expunge previous versions of a collection

We'll do this in the context of Workbench2 only.

**#12 - 06/05/2019 05:38 PM - Ward Vandewege**

- Related to Story #15333: Workbench2 feature parity with Workbench added

**#13 - 12/31/2019 08:43 PM - Peter Amstutz**

- Release set to 20

- Target version deleted (To Be Groomed)

**#14 - 01/22/2020 08:06 PM - Peter Amstutz**

- Target version set to 2020-02-12 Sprint

**#15 - 01/29/2020 04:51 PM - Lucas Di Pentima**

- Assigned To set to Lucas Di Pentima

**#16 - 01/29/2020 05:16 PM - Peter Amstutz**

- Target version changed from 2020-02-12 Sprint to 2020-02-26 Sprint

**#17 - 02/20/2020 06:58 PM - Lucas Di Pentima**

- File Version selector.png added

**#18 - 02/20/2020 07:15 PM - Lucas Di Pentima**

- Description updated

**#19 - 02/26/2020 03:17 PM - Peter Amstutz**

- Target version changed from 2020-02-26 Sprint to 2020-03-11 Sprint

**#20 - 02/28/2020 02:19 PM - Peter Amstutz**

- Subject changed from [Workbench2] View/copy/expunge previous versions of a collection to View/copy/expunge previous versions of a collection

**#21 - 03/04/2020 04:41 PM - Lucas Di Pentima**

- Blocked by Bug #16118: Offers editing actions on read-only collections added

**#22 - 03/09/2020 08:46 PM - Lucas Di Pentima**

- Category changed from Workbench to Workbench2

- Description updated

Updated description removing all backend notes as this story is only about the UI.

**#23 - 03/11/2020 01:38 PM - Peter Amstutz**

- Target version changed from 2020-03-11 Sprint to 2020-03-25 Sprint

**#24 - 03/11/2020 01:39 PM - Peter Amstutz**

- Status changed from New to In Progress

**#25 - 03/11/2020 03:46 PM - Peter Amstutz**

- Target version changed from 2020-03-25 Sprint to 2020-04-08 Sprint

**#26 - 03/25/2020 01:46 PM - Peter Amstutz**

- Target version changed from 2020-04-08 Sprint to 2020-04-22

**#27 - 04/01/2020 01:47 PM - Lucas Di Pentima**

- Blocks Story #16300: Compare 2 collection versions added

**#28 - 04/01/2020 01:47 PM - Lucas Di Pentima**

- Status changed from In Progress to New

**#29 - 04/22/2020 01:32 PM - Lucas Di Pentima**

- Target version changed from 2020-04-22 to 2020-05-06 Sprint

**#30 - 05/06/2020 03:30 PM - Lucas Di Pentima**

- Target version changed from 2020-05-06 Sprint to 2020-05-20 Sprint

**#31 - 05/18/2020 05:32 PM - Peter Amstutz**

- Target version changed from 2020-05-20 Sprint to 2020-06-17 Sprint

**#32 - 06/03/2020 03:57 PM - Lucas Di Pentima**

- Target version changed from 2020-06-17 Sprint to 2020-07-01 Sprint

**#33 - 06/17/2020 04:02 PM - Lucas Di Pentima**

- Target version changed from 2020-07-01 Sprint to 2020-07-15

**#34 - 07/15/2020 02:34 PM - Lucas Di Pentima**

- Target version changed from 2020-07-15 to 2020-08-12 Sprint

**#35 - 08/04/2020 08:58 PM - Peter Amstutz**

- Target version changed from 2020-08-12 Sprint to 2020-09-09 Sprint

#### #36 - 08/10/2020 02:29 PM - Peter Amstutz

Customer feedback about collection versions:

- Page needs to make it clear when you are viewing an old version
- Sharing dialog needs to operate on the latest version and say that it will share the entire version history
- Tell the user you need to make a copy ("fork this version") to be able to edit or share a single past version
- Should be able to search for and access old versions by PDH (on the UI side, the search dialog should have "include\_past\_versions=true" on the API side it should permit GET by PDH even if it is a past version).

#### #37 - 08/17/2020 02:38 PM - Peter Amstutz

- Related to Feature #16718: Searching past collection versions added

#### #38 - 08/17/2020 02:41 PM - Peter Amstutz

I'm wondering if there is a minimum viable ticket here that only includes:

- Something that says a collection is not the latest version
- A link to the latest version
- Tell the user they need to make a copy if they want to edit it
- Tell the user to go to the latest version if they want to share it
- [#16718](#)

#### #39 - 08/17/2020 03:14 PM - Peter Amstutz

Added [#16719](#)

#### #40 - 08/17/2020 03:14 PM - Peter Amstutz

- Related to Feature #16719: Basic support for collection versions added

#### #41 - 08/17/2020 03:20 PM - Peter Amstutz

- Description updated

- Subject changed from View/copy/expunge previous versions of a collection to Browse previous versions of a collection

#### #42 - 08/26/2020 03:34 PM - Lucas Di Pentima

- Target version changed from 2020-09-09 Sprint to 2020-09-23 Sprint

#### #43 - 09/23/2020 03:19 PM - Lucas Di Pentima

- Target version changed from 2020-09-23 Sprint to 2020-10-07 Sprint

#### #44 - 10/07/2020 01:57 PM - Peter Amstutz

- Target version changed from 2020-10-07 Sprint to 2020-10-21 Sprint

#### #45 - 10/15/2020 06:53 PM - Lucas Di Pentima

- Status changed from New to In Progress

#### #46 - 10/21/2020 01:53 PM - Lucas Di Pentima

- Target version changed from 2020-10-21 Sprint to 2020-11-04 Sprint

#### #47 - 11/04/2020 04:36 PM - Lucas Di Pentima

- Target version changed from 2020-11-04 Sprint to 2020-11-18

#### #48 - 11/12/2020 04:46 PM - Lucas Di Pentima

- Related to Bug #17098: Collection "restore from previous version" button added

#### #49 - 11/16/2020 02:40 PM - Lucas Di Pentima

### Status update

Current code at [arvados-workbench2/b7f96fb](#) - Branch 13494-collection-version-browser

Test run: <https://ci.arvados.org/view/Developer/job/developer-tests-workbench2/177/>

### Code updates

- Allows PDH UI to list old versions.
- Shows new "old collection" icon on any DataTable-based component.
- Fixes places where the "search box label" on DataTable based components was wrong (ie: "Search files" on a project listing) by allowing customization.
- Refactors details panel removing the unused "Activity" tab and allowing custom tabs per resource. (ie: Versions tab for collections)
- Sets "Owner" column off (it's still possible to enable it) on various listing panels as the provided info is redundant and takes lots of horizontal space.
- Populates the "Versions" tab on the collection's detail panel with a clickable listing of versions (aka the "version browser").
- Makes the version retrieval only happen when the details panel is open.
- Allows the user to directly open the version browser by clicking on the collection's version number on the main info panel.

## Pending

- Use virtual version listing to avoid the same issues we had with big collections: only process what's being rendered, avoiding setting too many event handlers, etc.
- Layout enhancements: the version browser column header needs better alignment with the listing contents. Also, the listing row height might need adjusting (making it more compact).
- Add a "make version current" action on the old version UI. (Refs [#17098](#))
- Tests.

## #50 - 11/16/2020 08:48 PM - Peter Amstutz

Timestamps are a little weird.

created\_at is copied directly to the snapshot, so created\_at is the same for every version.

modified\_at is the last time the record is modified. But what this means is that when a snapshot is created, the modified\_at is set to when the snapshot is created, but the "head" record is also modified, so both the "head" version and the second-to-last versions have the same modified\_at.

However, what I probably want to see when browsing versions is the timestamp for when that version came into being. So version 1 is the created\_at time, version 2 is when version 2 was created, version 3 is when version 3 was created. etc.

Currently, showing modified\_at means version 1 actually shows the time version 2 came into being, version 2 shows the time that version 3 came into being, etc.

The details view is similarly confusing (modified\_at doesn't really mean what you think it means).

Let's discuss whether the solution is to change the backend (maybe the snapshot should copy modified\_at?) or accommodate it on the frontend.

## #51 - 11/16/2020 08:53 PM - Peter Amstutz

The "head version" field is not shown on the "latest" collection. This causes the fields to shuffle around between "latest" and past versions. We should either include the head version field the same way or use a placeholder like "Head version: this"

## #52 - 11/16/2020 08:56 PM - Peter Amstutz

The "Version: N" field lets you click on it and it opens the sidebar with the versions tab selected. Can we do the same thing with "info" button?

## #53 - 11/16/2020 09:15 PM - Peter Amstutz

This is unrelated to versions except that you mentioned "Fixes places where the "search box label" on DataTable based components was wrong (ie: "Search files" on a project listing) by allowing customization."

When you search and there are no hits, the message is "Your project is empty. Please create a project or create a collection and upload a data." instead of something like "There are no results from your search".

## #54 - 11/18/2020 04:29 PM - Lucas Di Pentima

- Target version changed from 2020-11-18 to 2020-12-02 Sprint

## #55 - 11/19/2020 07:32 PM - Lucas Di Pentima

Updates at [arvados-workbench2/f85043c3](#)

Test run: <https://ci.arvados.org/view/Developer/job/developer-tests-workbench2/182/>

## Updates

- "Head version" attribute is always displayed on the collection panel, so that other attributes don't get shuffled on the UI.
- Optimised the details panel component so that it re-renders only when necessary.
- Enhanced the version browser layout, making it more compact, getting the column labels aligned.
- Changes the collection status renderer so that "current version" is now "head version" and "old version" is now "version N". This labels appear on search and pdh listings.
- Fixed a collection property removal bug that I found while playing with versioning.
- Changed several collection related actions to be asynchronous instead of using "async/await".
- Fixed failing integration tests related to searching old versions.

## Pending

- Writing some integration tests for this new feature
- Re: empty project icon/message when no search results: can we make that a different ticket? I've briefly checked if it was something super trivial but couldn't find a solution yet.
- Re: Information icon displaying the "versions" tab: This is a generic piece of UI and what it does is toggling the (status of) details panel. Because it was not super obvious the best way to not show a certain tab depending on the current UI view (ie: show the details tab on project listings, but not on collection panel) I added the "direct access" link to the version browser via clicking the version number. Maybe if I can somewhat know in which UI the user is at any moment (not sure if this is recorded on the app's state) I can add a "default tab number" per type of detail panel.

## #56 - 11/20/2020 06:41 PM - Peter Amstutz

Lucas Di Pentima wrote:

Updates at [arvados-workbench2|f85043c3](#)

Test run: <https://ci.arvados.org/view/Developer/job/developer-tests-workbench2/182/>

### Updates

- "Head version" attribute is always displayed on the collection panel, so that other attributes don't get shuffled on the UI.
- Optimised the details panel component so that it re-renders only when necessary.
- Enhanced the version browser layout, making it more compact, getting the column labels aligned.
- Changes the collection status renderer so that "current version" is now "head version" and "old version" is now "version N". This labels appear on search and pdh listings.
- Fixed a collection property removal bug that I found while playing with versioning.
- Changed several collection related actions to be asynchronous instead of using "async/await".
- Fixed failing integration tests related to searching old versions.

This all looks great!

### Pending

- Writing some integration tests for this new feature

Yep, I think that's the last thing to do.

- Re: empty project icon/message when no search results: can we make that a different ticket? I've briefly checked if it was something super trivial but couldn't find a solution yet.

<https://dev.arvados.org/issues/17153>

- Re: Information icon displaying the "versions" tab: This is a generic piece of UI and what it does is toggling the (status of) details panel. Because it was not super obvious the best way to not show a certain tab depending on the current UI view (ie: show the details tab on project listings, but not on collection panel) I added the "direct access" link to the version browser via clicking the version number. Maybe if I can somewhat know in which UI the user is at any moment (not sure if this is recorded on the app's state) I can add a "default tab number" per type of detail panel.

If this is too annoying to fix, then leave it as is.

## #57 - 11/20/2020 10:24 PM - Lucas Di Pentima

Updates at [arvados-workbench2|f40add99](#)

Test run: <https://ci.arvados.org/view/Developer/job/developer-tests-workbench2/186/>

- Added integration test for collection's version browsing.

## #58 - 11/24/2020 07:02 PM - Peter Amstutz

Two things:

- 1) The "Add to favorites" shows up in the action menu, but this doesn't work for past versions.
- 2) How hard would it be to make an action context menu show up when you right-click a row in the "Versions" list?

Otherwise this looks really good and I think it's almost ready to merge

## #59 - 11/24/2020 07:25 PM - Lucas Di Pentima

From chat: above comment nr 1) is about not showing the "add to favorites" action on past version collections. It'll be implemented on [#17098](#) as I already have related code written on it.

**#60 - 11/24/2020 08:05 PM - Lucas Di Pentima**

Updates at [arvados-workbench2|306d28fe](https://ci.arvados.org/view/Developer/job/developer-tests-workbench2/190/)

Test run: <https://ci.arvados.org/view/Developer/job/developer-tests-workbench2/190/>

- Adds context menu support on collection versions browser.
- Adds checks on the integration test case.

**#61 - 11/25/2020 03:29 PM - Peter Amstutz**

Lucas Di Pentima wrote:

Updates at [arvados-workbench2|306d28fe](https://ci.arvados.org/view/Developer/job/developer-tests-workbench2/190/)

Test run: <https://ci.arvados.org/view/Developer/job/developer-tests-workbench2/190/>

- Adds context menu support on collection versions browser.
- Adds checks on the integration test case.

On Firefox, I'm not getting the action context menu when I click on an item in the versions list (I do get the browser's context menu).

**#62 - 11/25/2020 03:42 PM - Lucas Di Pentima**

It works on my side, with Firefox 83.0 64-bits. Do you get any kind of JS console message?

**#63 - 11/25/2020 04:59 PM - Peter Amstutz**

Lucas Di Pentima wrote:

It works on my side, with Firefox 83.0 64-bits. Do you get any kind of JS console message?

It's working now. Maybe I had a stale js cache.

LGTM, please merge!

**#64 - 11/25/2020 05:54 PM - Anonymous**

- % Done changed from 50 to 100

- Status changed from In Progress to Resolved

Applied in changeset [arvados-workbench2|3c2e32130d4229eada68f21d4000da9a0f844ba4](https://ci.arvados.org/view/Developer/job/developer-tests-workbench2/190/).

**#65 - 02/18/2021 10:21 PM - Peter Amstutz**

- Release changed from 20 to 37

**Files**

---

Version selector.png	28.7 KB	02/20/2020	Lucas Di Pentima
----------------------	---------	------------	------------------