

2017-09-07 - Fedora Tech Meeting

Time/Place

This meeting is a hybrid teleconference and IRC chat. Anyone is welcome to join...here's the info:

- Time: 11:00am Eastern Daylight Time US (UTC-4)
- Dial-in Number: (712) 775-7035
 - Participant Code: 479307#
 - International numbers: [Conference Call Information](#)
 - Web Access: <https://www.freeconferencecallhd.com/wp-content/themes/responsive/flashphone/flash-phone.php>
- IRC:
 - [Join the #fcrepo chat room via Freenode Web IRC](#) (enter a unique nick)
 - Or point your IRC client to #fcrepo on irc.freenode.net

Attendees

- [Danny Bernstein](#)
- [Aaron Birkland](#) (will be late)
- [Jared Whiklo](#)
- [Bethany Seeger](#) ★
- [Unknown User \(acoburn\)](#)
- [Christopher Johnson](#)
- [Peter Eichman](#)
- [Carrick Rogers](#)

Agenda

1. Upcoming "[Alignment to Spec](#)" sprint
2. Progress on: [Possible messaging memory leak?](#)
3. Need volunteer for: [FCREPO-2544](#) - Time to first byte of response is too long for containers with many contained resources CLOSED
 - a. Solution is outlined in ticket
 - b. <https://github.com/fcrepo4/fcrepo4/pull/1223>
4. [LTS policy proposal](#)
5. Wrapping up fcrepo-import-export-verify: <https://github.com/fcrepo4-labs/fcrepo-import-export-verify/pull/48>
6. [Report](#) on 4.7.4 Benchmarks and Testing ([Carrick Rogers](#))
7. Status of "in-flight" tickets

Ticket Summaries

1. Please squash a bug!

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
FCREP O-3451	X-If-State-Token not supported on PUT	🔴	Oct 08, 2020	Oct 08, 2020		Unassigned	Andrew Woods	📌	OPEN	Unresolved
FCREP O-3450	Containment triples are not displayed for Mementos	🔴	Oct 08, 2020	Oct 08, 2020		Unassigned	Jared Whiklo	☰	OPEN	Unresolved
FCREP O-3425	Fedora rdf types are not treated as managed	🔴	Sep 12, 2020	Sep 12, 2020		Unassigned	Peter Winckles	☰	RECEIVED	Unresolved
FCREP O-3423	ACLs not displayed properly	🔴	Sep 12, 2020	Sep 12, 2020		Unassigned	Peter Winckles	☰	OPEN	Unresolved

FCREP O-3422	Repository root is missing root type		Sep 12, 2020	Sep 12, 2020	Unassigned	Peter Winckles		OPEN	Unresolved
FCREP O-3414	Stacktrace in response: PUT without Content-Type		Sep 08, 2020	Sep 11, 2020	Unassigned	Andrew Woods		OPEN	Unresolved
FCREP O-3413	Stacktrace in response: PATCH with unknown prefix		Sep 08, 2020	Sep 11, 2020	Unassigned	Andrew Woods		OPEN	Unresolved
FCREP O-3387	Versions not visible in HTML UI		Jul 22, 2020	Aug 03, 2020	Unassigned	Andrew Woods		OPEN	Unresolved
FCREP O-3377	migration utils needs to stage files with windows safe paths		Jul 09, 2020	Aug 05, 2020	Unassigned	Peter Winckles		OPEN	Unresolved
FCREP O-3374	Catch PersistentStorageExceptions		Jul 09, 2020	Aug 03, 2020	Unassigned	Andrew Woods		OPEN	Unresolved
FCREP O-3368	Stacktrace on webapp shutdown		Jul 08, 2020	Aug 03, 2020	Unassigned	Andrew Woods		OPEN	Unresolved
FCREP O-3367	Stacktrace response on bad Link header		Jul 08, 2020	Aug 03, 2020	Unassigned	Andrew Woods		OPEN	Unresolved
FCREP O-3329	The server should not allow HTTP PATCH to update an LDPC's containment triple		May 27, 2020	Aug 05, 2020	Unassigned	Danny Bernstein		OPEN	Unresolved
FCREP O-3145	Fix migration-utils inline XML migration to not transform XML en route		Nov 25, 2019	Jun 23, 2020	Andrew Woods	Scott Prater		OPEN	Unresolved
FCREP O-3138	Test HTTP -> Service layer		Nov 21, 2019	Nov 22, 2019	Unassigned	Jared Whiklo		RECEIVED	Unresolved
FCREP O-2263	Reserved Characters in fragments are encoded by UriBuilder		Oct 09, 2016	Nov 22, 2019	Unassigned	Christopher Johnson		OPEN	Unresolved

16 issues

2. Tickets resolved this week:

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
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FCREP O-3464	Update last modified date and state token on AG when child is deleted		Oct 21, 2020	Oct 21, 2020	Jared Whiklo	Jared Whiklo		IN REVIEW	Ready for Test
FCREP O-3463	Import Export - Update bagit-support to 1.1.0		Oct 20, 2020	Oct 21, 2020	Michael Ritter	Michael Ritter		IN REVIEW	Fixed
FCREP O-3462	Update state token when updating last modified date.		Oct 20, 2020	Oct 20, 2020	Jared Whiklo	Jared Whiklo		CLOSED	Fixed
FCREP O-3461	F3 migration is not creating external resource binary descriptions		Oct 20, 2020	Oct 20, 2020	Peter Winckles	Peter Winckles		CLOSED	Fixed
FCREP O-3257	PUT on existing container should be 409		Mar 20, 2020	Oct 21, 2020	Jared Whiklo	Andrew Woods		CLOSED	Fixed
FCREP O-3223	IT: Restore FedoraLdpIT tests		Feb 13, 2020	Oct 19, 2020	Jared Whiklo	Andrew Woods		IN REVIEW	Ready for Test
FCREP O-3165	Implement membership triple retrieval service		Jan 07, 2020	Oct 16, 2020	Ben Pennell	Danny Bernstein		IN REVIEW	Fixed
FCREP O-2984	fcprep-upgrade-utils: Transform version representation from 4.7.x to 5.x		Jan 30, 2019	Oct 16, 2020	Danny Bernstein	Danny Bernstein		IN REVIEW	Fixed

8 issues

3. Tickets created this week:

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
FCREP O-3464	Update last modified date and state token on AG when child is deleted		Oct 21, 2020	Oct 21, 2020		Jared Whiklo	Jared Whiklo		IN REVIEW	Ready for Test
FCREP O-3463	Import Export - Update bagit-support to 1.1.0		Oct 20, 2020	Oct 21, 2020		Michael Ritter	Michael Ritter		IN REVIEW	Fixed
FCREP O-3462	Update state token when updating last modified date.		Oct 20, 2020	Oct 20, 2020		Jared Whiklo	Jared Whiklo		CLOSED	Fixed

FCREP O-3461	F3 migration is not creating external resource binary descriptions		Oct 20, 2020	Oct 20, 2020	Peter Winckles	Peter Winckles		CLOSED	Fixed
FCREP O-3460	Migration utils: Optionally log error and skip objects that cannot be migrated		Oct 18, 2020	Oct 21, 2020	Unassigned	Scott Prater		OPEN	Unresolved
FCREP O-3459	Document migration path from F4->F6		Oct 15, 2020	Oct 15, 2020	Danny Bernstein	Danny Bernstein		RECEIVED	Unresolved

6 issues

4. Avalon R6 4.7.4 Testing



Minutes

Action Items

- Sprint starting next week -
 - Danny Bernstein will not be available for the first day of sprint next week
 - Danny Lamb switching to second sprint
 - Aaron Coburn asking about the consideration of current features that are necessarily API spec features? (like webac, versioning subtrees, pairtree)
 - responses from [Aaron Birkland](#):
 - There may be some changes that might break the existing behaviors of fedora that are not part of the API spec.
 - We do not have a policy that we'll be maintaining some of these hard to maintain behaviors
 - the consensus from last weeks call was that backwards compat is not maintainable
 - no concrete decisions about taking things out yet.
 - based on discussion at start of sprint, things may end up getting taken out.
 - some of the old behavior that's in the way or complicates things may be subject to removal
 - bug regarding [pairtree](#) - [Unknown User \(acoburn\)](#) encourages discussion around this at start of sprint (taking out pairtree behavior)
 - versioning - most concerning regarding implementing momento that's consistent with the spec - it may be the case that we have to change the way that versioning is reflected in modeshape.
 - There was discussion between [Aaron Birkland](#) and [Andrew Woods](#) about sprinters working on issues other than spec alignment. There is probably room to have folks working on other forms of fixes/improvements to fedora that aren't part of the API spec.
- Update on memory leak issue from [Peter Eichman](#)
 - modeshape bug - fixed in modeshape 5.4, he has been unable to reliably get the system to fail and hang in test case.
 - With avoiding transaction rollbacks they were able to run the remainder of the load and it completed successfully.
 - tested with batch loader? Not gotten back to that yet
 - ran into another issue which may or may not be related - there were some binaries where the metadata was there, but the binaries themselves were not in the system and may never have been.

- binaries were probably large enough to not hit the 4k minimum size (repository.json config)
- related to modeshape upgrade? no, this was happening in the modeshape 5.3 system causing the failed transactions he was seeing.
 - these files may never have actually gotten written to the file system (based on looking at backups)
- next steps: might write files directly to the file system to replace them, though knows that's a bit dangerous
- one file was a xml file - one jp2 (and a few other types) – maybe one of the directories where these files were sitting got deleted? It's two pages in a row that are missing.
- JIRA issue <https://jira.duraspace.org/browse/FCREPO-2544>
 - Do we use the sprint to remove this type of behavior?
 - If we are going to break things, lets do it now
 - Is this a reference implementation or just another impl of the spec? If reference then any out-of-spec features should be carefully considered. Good question for the fedora leaders group.
 - Why do we have pairtrees?
 - technique to control tree structure. JCR ism or specifically Modeshape-ism? 1000 direct children causes performance to slow quite a bit.
 - It's a mode shape issue – it has to do with Fedora's use of same-name siblings, which MODE specifically warns against using
 - it's how nodes are constructed and how we place properties on these nodes – you should be able to have a node with lots and lots of children, but the same name siblings causes issues.
 - ldp-contains uses this method getChildern() - causes this to be recursive and collects lots of nodes as a result and is slow. This is how fedora is using modeshape.
 - Any tickets around this? Yes, there have been a few.
 - Part of the root of the whole fedora code base - it's a huge issue. It's a limit that exists in fedora. Pairtrees is how fedora is trying to go around that limitation, but it's half-baked.
 - It's complicated
 - The fix - exposing pairtrees even more as a logic concept that clients could use to control traversing repo. Would further ingrain them into certain client/server workflows.
 - [Unknown User \(acoburn\)](#) has code that hides the pairtrees - might make sense to have something like that become part of main codebase?
 - [Jared Whiklo](#): Do folks feel like we should hold off on this PR going into master and look at this some more?
 - [Aaron Birkland](#) - what are the considerations for import/export (migrations in general) if we remove pair trees?
 - consideration of how the currently exposed web resources are resolved
 - [Danny Bernstein](#) - could imagine a way get beyond this issue via the import mechanism
 - with a little perl code run over an import/export dataset, that should be something one could easily deal with
 - [Unknown User \(acoburn\)](#) This PR code is masking the problem - real problem is time to first byte – what is actually causing the buffer? That's what should be fixed.
 - Solving this problem is more impactful to the client
 - if this is time to first byte can we send chunks of data, so they get something quicker?
 - in principal the JAXRS framework responses should be streamed - we shouldn't have the collect everything and then send pattern, but it's what fedora currently does
- LTS - not going to discuss it now – read through and add comments to the page if you have any and we can dicuss it more next week
 - [Unknown User \(acoburn\)](#) - the JVM support policy will need to change in order to support an LTS policy
 - there was some talk about this at an earier tech meeting;
 - java 9 will be released in about 2-3 weeks - java 8 will reach EOL in Sept. 2018 - if the policy doesn't support EOL JVM's - we would need to change the policy if we want to still support that.
 - "the java version that was in currently in use when LTS version went into effect is the version that is targeted"
- Import / Export PR for the verify tool - can someone from the sprint take a look at this?
- From irc: [Aaron Birkland](#) - by the way, would somebody be willing to review/merge <https://jira.duraspace.org/browse/FCREPO-2578>. Our IT department flagged Fedora re: vulnerability with jquery 1.9.x
 - [Jared Whiklo](#) will take a look at jquery at some point
 - there was some discussion of getting rid of jquery on irc - someone should create a JIRA ticket for this work. (separate from issue above)
- Report on 4.7.4 Benchmarks and Testing ([Carrick Rogers](#))
 - avalon with active fedora
 - setting up test to simulate end user experience
 - anyone looking through the Avalon R6 4.7.4 Testing document (document is above) that notices some test missing - email him so it can potentially be added