

2019-08-08 - Fedora Tech Meeting

Time/Place

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

- Time: 11:00am Eastern Daylight Time US (UTC-4)
- Audio/Video Conference Link: <https://lyrasis.zoom.us/my/fedora>
 - Dial-in:
 - +1 408 638 0968
 - +1 646 876 9923
 - +1 669 900 6833
 - Meeting ID:
 - 812 835 3771
- Join fedora-project.slack.com on the "tech" channel

Attendees

Part 1:

1. [Danny Bernstein](#)
2. [Andrew Woods](#)
3. [Peter Winckles](#)
4. [Ben Cail](#) ★
5. [Aaron Birkland](#)
6. [Ben Pennell](#)
7. [Paul Cummins](#)
8. [Bethany Seeger](#)
9. [Jared Whiklo](#)
10. [Yinlin Chen](#)

Part 2:

1. [Danny Bernstein](#)
2. [Andrew Woods](#) ★
3. [Peter Winckles](#)
4. [Ben Cail](#)
5. [Aaron Birkland](#)
6. [Ben Pennell](#)
7. [Jared Whiklo](#)

Agenda

1. Announcements
 - a. #sprints channel
 - b. #github channel?
 - c. kubernetes support in [Deployment Tooling](#)
 - d. #general channel community issue
2. fcrepo-upgrade-utils
 - a. Minimal 4 5 migration needs testing and code review:
 - i. <https://github.com/fcrepo4-exts/fcrepo-upgrade-utils/pull/17>
3. Update on [Fedora 6 Pilots](#) (NLM, Docuteam, UWM)
 - a. [migration-utils](#) PRs
4. [Java 11](#): When?
5. [Sprint Planning](#)
 - a. [6.0 Architecture Review](#)
 - b. [Transaction Sidecar Spec](#) Update
 - c. OCFL community feedback on OCFL client with Database as authoritative metadata source
 - d. <https://github.com/pwinckles/ocfl-java-parent>
 - e. Problems requiring design
 - i. Tombstone Support in 6.0.0
 - ii. Caching/indexing strategy
 1. What caches and indexes do we need(ie in what layer(s)?)
 - a. OCFL client
 - b. Persistence Implementation (OCFL)
 - c. Kernel Implementation
 2. Physical location of the cache (assuming we want to plan for horizontal scalability support)
 - a. Cache per instance?
 - i. synchronizing changes across instance
 - b. 1 Global cache/index?
6. Your topic here...

Tickets

1. In Review

type	key	summary	assignee	reporter	priority	status	resolution	created	updated	due
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Unable to locate Jira server for this macro. It may be due to Application Link configuration.

2. Please squash a bug!

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution
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Unable to locate Jira server for this macro. It may be due to Application Link configuration.

3. Tickets resolved this week:

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution
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Unable to locate Jira server for this macro. It may be due to Application Link configuration.

4. Tickets created this week:

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution
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Unable to locate Jira server for this macro. It may be due to Application Link configuration.

Notes

1. Announcements

- a. sprints channel open & participants invited
- b. #github - Slack integration with github for PRs, ... - Jared will create the new #github channel.
 - i. What should we do with GitHub issues?
- c. fcrepo4-docker - has kubernetes support now: [Deployment Tooling](#)
- d. #general channel - issue with simple file persistence error. Size is wrong.
 - i. point Islandora to mysql or postgres for default configuration.
 - ii. look at updating documentation.
 1. The hyrax setup instructions (<https://github.com/samvera/hyrax/wiki/Production-Installation-Overview>) links to [Deploying Fedora 4 Complete Guide](#) which says to use <https://github.com/fcrepo4/fcrepo4/blob/4.7-maintenance/fcrepo-configs/src/main/resources/config/file-simple/repository.json> which uses the simple file system persistence approach

2. fcrepo-upgrade-utils

- a. should work for basic setups. People should try it out. Doesn't work with ACLs yet, but that's next.

3. Fedora 6 pilots

- a. OCFL client (<https://github.com/pwinkles/ocfl-java-parent>) - implements most of the spec.
 - i. API - put/get at object level, read/update for individual files. Automatically commits (in single version) at the end of the object update changes.

- ii. Doesn't handle multiple clients writing at the same time (& Go client doesn't currently support that, either).
 - 1. OCFL spec talks about deposit directory for staging content, but defines content at rest, not content in motion.
 - 2. Aaron suggested OCFL RFCs repo - implementation patterns, definitions, clarifications, ...
 - 3. What functionality should an OCFL client have? It should be written up.
- 4. Java 11
 - a. Peter's code uses 11. Should make a decision at some point and switch everything.
 - b. Ideal scenario: all fedora eco-system tooling (fcrepo4, fcrepo-came-toolbox, fcrepo-import-export, fcrepo-upgrade-utils) will compile Java 11 source.
 - i. bytecode compatibility ? Should that go to 11 as well?
 - c. Draft JVM policy re-wording <https://docs.google.com/document/d/1ulXLOF2dL-vEUKhUFjkl8UG97wjXJ-9dbmytKVwzDMM/edit>
 - d. Current Oracle LTS is Java 11
 - e. We should likely move to Java 11 this calendar year
 - f. How hard is it for the community to move to Java 8
 - i. Andrew to email to community list
 - ii. What is our plan?
 - 1. LTS releases: 4.7
 - 2. Fedora 6 to use openjdk-11
 - 3. needs Java 11 to run
- 5. Sprint planning
 - a. OCFL implementations
 - OCFL Community meeting next week, Wednesday
 - b. Conversation to continue on Slack
 - Request for Aaron B to document thoughts
 - Separation of concerns: what does Fedora need to know, what is internal to the OCFL client
 - Danny to update diagram (include 'deposit' space and 'versions')
 - c. Transaction sidecar spec
 - <https://github.com/fcrepo/fcrepo-specification-atomic-operations>
 - Peter E is working on this
 - Interest in scoping transactions at the Archival-Group
 - d. OCFL client with database as metadata store
 - <https://wiki.duraspace.org/display/FF/Fedora+2019+Architectural+Diagrams#Fedora2019ArchitecturalDiagrams-OCFLClientwithpersistentdatabaseasauthoritativemetadatasource>
 - Diagram needs to be re-worked
 - Fedora transactions will need support from underlying OCFL client
 - An OCFL client backed by a database may be able to support transactions that span multiple OCFL objects
 - Diagram details an OCFL interaction with transactions scoped to a single OCFL object
 - Todo: design how an OCFL client would support transactions over a single OCFL object
 - Todo: design how an OCFL client would support transactions over multiple OCFL objects
 - e. Conversation to continue on Slack
 - Request for Aaron B to document thoughts
 - Separation of concerns: what does Fedora need to know, what is internal to the OCFL client
 - Danny to update diagram (include 'deposit' space and 'versions')

Actions

- [Danny Bernstein](#) will reach out to Greg about DRASTIC test results
- [Aaron Birkland](#) to work with [Andrew Woods](#) to get the Go client working on travis.
- [Aaron Birkland](#) to look explore notion of OCFL client with database as authoritative metadata source + asynchronous writing of the inventory.json file
- [Peter Eichman](#) and maybe [Ben Pennell](#) to make recommendations re transaction side car specification.
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