2017-12-14 - 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)
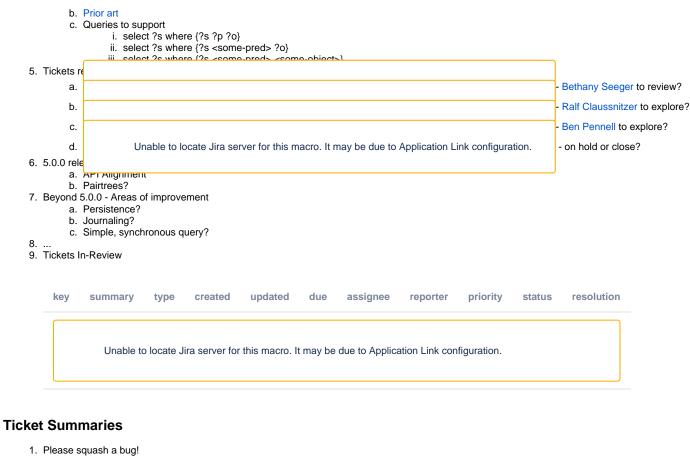   - Or point your IRC client to #fcrepo on irc.freenode.net

Attendees

- Danny Bernstein
- Esmé Cowles
- Ben Pennell ⭐
- Michael Durbin
- Peter Eichman
- Joshua Westgard
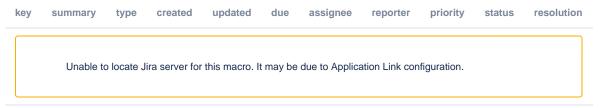- Bethany Seeger
- (Please add your name)

Agenda

1. Announcements
    a. 4.7.5 Release Process begins
2. 4.7.5 release - Planning for week of January,15th 2018
    a. Release manager - Osman Din
    b. Volunteers
        i. Testers
            1. Danny Bernstein
            2. Joshua Westgard
            3. Peter Eichman
            4. ?
        ii. Someone to review 4.7.5 commit message for signs of missing documentation?
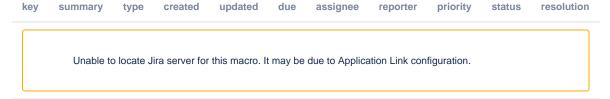   iii. Preparers of Module Release Candidates

Module	Who?
fcrepo-module-auth-rbacl	Osman Din
fcrepo-module-auth-xacml	Osman Din
fcrepo-module-auth-webac	Osman Din
fcrepo-mint	Osman Din
fcrepo-audit	Osman Din
fcrepo-webapp-plus	Osman Din
fcrepo4-vagrant	Osman Din

    c. Resources:
        i. component release process tracker: https://docs.google.com/spreadsheets/d/1I_zTMxh2l2rf2wpafoTwhSTR5GZuEoaTcZmTKCl3xT4/edit#gid=1769378986
        ii. Release Testing - 4.7.5
3. Fedora API Test Suite... needing:
    a. Try the tool against an API implementation
    b. Code reviewing the tool... lots of low-hanging fruit
4. Simple, synchronous query in Fedora
    a. What will it take to make this happen?

b. [Prior art](#)
c. Queries to support
    i. select ?s where {?s ?p ?o}
    ii. select ?s where {?s <some-pred> ?o}
    iii. select ?s where {?s <some-pred> <some-object>}

5. Tickets re[...]
    a. [...] - [Bethany Seeger](#) to review?
    b. [...] - [Ralf Claussnitzer](#) to explore?
    c. [...] - [Ben Pennell](#) to explore?
    d. [...] - on hold or close?

> Unable to locate Jira server for this macro. It may be due to Application Link configuration.

6. 5.0.0 rele[...]
    a. API Alignment
    b. Pairtrees?
7. Beyond 5.0.0 - Areas of improvement
    a. Persistence?
    b. Journaling?
    c. Simple, synchronous query?
8. ...
9. Tickets In-Review

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution

> Unable to locate Jira server for this macro. It may be due to Application Link configuration.

Ticket Summaries

1. Please squash a bug!

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution

> Unable to locate Jira server for this macro. It may be due to Application Link configuration.

2. Tickets resolved this week:

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution

> Unable to locate Jira server for this macro. It may be due to Application Link configuration.

3. Tickets created this week:

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution

> Unable to locate Jira server for this macro. It may be due to Application Link configuration.

Minutes

2. Release

- Esme can help with Samvera testing
- Osman will perform builds of module release candidates, unless he wishes to delegate
- May be a challenging release given holidays

3. API test suite been running for a while. Has anyone had a chance to look at it?

- Danny hasn't looked at it yet, but seems easy to use. Going to try it out this week
- Interested in people trying it against other implementations, like Trellis and Cavendish.
- Bethany: Is this considered done as far as the contractors are concerned?
  - Danny: Good question, the repo doesn't say how complete it is. Will check in with Andrew
  - Since the API alignment isn't complete, it shouldn't pass against modeshape impl yet
  - Code reviewing the tool?

4. Simple querying in Fedora?

- Previously, cbeer had added this functionality, but it had been later removed
- Is data structured for this in modeshape to be reasonably performant?
- Mike: Was one of the agitators for this, opposed it being cut
  - Some stuff is inferred, some not directly searchable
  - What types of queries do we want to support?
  - What exceptions are we willing to tolerate?
  - Extension spec?
  - Is it okay if it doesn't work consistently on server managed triples, like date fields?
  - Just wants to be able to search dc:identifier. This would work, modeshape has an index that can be searched.
- Esme: Valkyie, making a list of queries that the repository needed.
  - Needed queries
    - all objects of given type
    - Doing a search for dc:identifiers
    - They will come up with a list of queries they need
- Danny: Would it be helpful at this point to fill out the list
  - Discuss some of the known limitations of modeshape's internal indices
    - Mike: Last modified date is across two fields. Might need to normalize way stored in fedora. Need to work out if this is needed
    - Esme: Types and containment triples are harder to make searchable
    - Search for non-server managed triples that are directly assigned are easy.
    - RDF type are not stored in the index modeshape maintains. That is inserted into responses.
    - Use case: find all objects of a type in order to do bulk object on it
    - Can't search on fcr namespace and ldp namespace. Might be okay to not support those, but it would be weird to have an LDP server that didn't support it
    - Could add support for this in after if there is demand for it
- Mike will start document to gather first pass at known limitations of implementation and requirements

5. Tickets requiring attention

- 2520
  - Bethany would like more feedback on what expectations are for mimetype
  - She will take another look at it to try to work through what the validation issue is
- 2650
  - Bethany will take a look
- 2544
  - there was a work around for that, using a different accept type. No one has strong feelings that it shouldn't be closed, so will make a note on ticket
  - Josh - as a larger strategy, this is something we will need to address
  - Paging mechanism is problematic in RDF rest api, but something we will need to deal with
  - Work around okay for now, but many members issue needs to be addressed in future implementations

6. 5.0.0 release?

- Need to wrap up creation of mementos, one of the last main things to bring into alignment with spec
- Pairtrees - Do we want to remove them?
  - Peter (?): In favor of removing them
  - Significant bit of internal work to hide them at fedora level, while still might need them in jcr
  - Danny: In doing away with pair trees, they would still be around internally
  - Peter: Need them, otherwise performance tanks after about 1000 children
  - Esme: Might want to look at Aaron Coburn's Appletree implementation. Takes checksum, makes path based on that. Includes hiding internal paths
  - Esme: would involve renaming everything in your repository, so it would need to take place as part of a major version change
  - Esme: Would either need migration tooling, or tooling for enabling/disabling the feature
  - Danny: how hard would a migration tool be to created?
    - Esme: Would be complex, but possible. If you have been using auto-generated UUIDS, could go through repo and remove pairtree.
  - Danny: interesting proposal, do we need community feedback?
    - Yes, more feedback would be good.
    - Esme: to write up brief description of proposal for fedora-tech
    - For discussion in new year

Action Items

Action: Check in with Andrew about completeness of the test suite

Action: Mike will put together a document with first pass at the feature set.

Action: Esme to write up brief description of proposal to remove pair trees for fedora tech