2018-06-14 - 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://duraspace.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

Attendee

- Danny Bernstein
- Peter Eichman
- Carrick Rogers
- Kevin Ford
- David Wilcox
- Doron Shalvi
- Andrew Woods
- James Silas Creel
- Bethany Seeger
- Longshou Situ
- Yinlin Chen

Agenda

1. Housekeeping:
   a. Sprint Dates: https://doodle.com/poll/2vgw3huv8dugeuq:
      i. Sept 10-22
      ii. Oct 1-12
   b. Leader for next week’s call
2. OR Impressions discussion
   a. Did OR change your thinking about future directions for Fedora?
      i. New features
      ii. Future integrations
      iii. ?
   b. Other discussion questions here:
3. Getting to 5.0
   a. In progress tickets
      i. FCREPO-2743 - Section 5: Allow single-document ACLs using hash URIs for authorizations. CLOSED
      ii. FCREPO-2717 - Section 5.7.1: A PUT on an LDP-RS should be denied if acl:Append applies CLOSED
      iii. FCREPO-2748 - Section 5.7.3: Disallow PUT, POST, and DELETE on LDP-NR where acl:Append applies CLOSED
      iv. FCREPO-2771 - Mementos have incorrect subject returned CLOSED
   b. Remaining external content (low-hanging: ie volunteers?) issues:

<table>
<thead>
<tr>
<th>Key</th>
<th>Summary</th>
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<tbody>
<tr>
<td>FCREPO</td>
<td>External Content Code</td>
<td>🌲</td>
<td>May 18, 2018</td>
<td>Oct 01, 2018</td>
<td></td>
<td>Ben Pennell</td>
<td>Bethany Seeger</td>
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<td>CLOSED</td>
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c. 5.x Documentation Effort matrix
   d. Compatibility Test Kit
4. Possible New Feature (Set): Signposting
   a. Does it belong in the Fedora Layer? API-X? Other?
   b. If so, should the spec be modified to include it?
5. Ecosystem tools progress report
   a. Outstanding PRs
6. Review Spec committee's direction on Fedora API Specification github issue (one-step fixity check)
   a. Also what about dangling question about storing checksums as a server managed triple?
   b. Fedora API Specification "Candidate Recommendation #2" in the process of being released
   c. Fixity check encouraged as a sidecar specification
7. <Add your agenda item here>

Ticket Summaries

1. Please squash a bug!

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<tr>
<th>Key</th>
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<tbody>
<tr>
<td>FCREP O-3269</td>
<td>NonRdfSource descriptions are missing triples</td>
<td>Apr 02, 2020</td>
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<td>Unassigned</td>
<td>Jared Whiklo</td>
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<td>FCREP O-3261</td>
<td>404 should not include low-level response</td>
<td>Mar 26, 2020</td>
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<td>FCREP O-3257</td>
<td>PUT on existing container should be 409</td>
<td>Mar 20, 2020</td>
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<td>FCREP O-3256</td>
<td>Ghost nodes should be immutable</td>
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<td>Disallow creating mementos within the same second</td>
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<td>FCREP O-3244</td>
<td>Response triples should reference URIs and not internal IDs</td>
<td>Mar 09, 2020</td>
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<td>FCREP O-3243</td>
<td>Fix concurrency issue when creating persistence sessions</td>
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<td>FCREP O-3238</td>
<td>Address naming collisions for .fcrepo files</td>
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<td>PaxExAm update needed to support Maven's HTTPS requirement</td>
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<td>FCREP O-3145</td>
<td>Fix migration-util inline XML migration to not transform XML en route</td>
<td>Nov 25, 2019</td>
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<td>Implement disambiguation pattern for OCFL filenames</td>
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<td>Design a disambiguation pattern for the OCFL filenames</td>
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<td>Apr 03, 2020</td>
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<td>Unauthorized users can delete child resources</td>
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<td>Creating external binary with bad URI and digest blows up</td>
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<td>Prefer header 'omit' containing 'PreferMinima</td>
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<td>lContainer' URL not honored</td>
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<td>Intermittent build failure</td>
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<td>FCREP O-2998</td>
<td>Potential issue with namespace registry</td>
<td>May 22, 2019</td>
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Showing 20 out of 66 issues

2. Tickets resolved this week:

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<tr>
<td>FCREP O-3268</td>
<td>Rebuild does not succeed for Binary resources</td>
<td>Apr 02, 2020</td>
<td>Apr 04, 2020</td>
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<td>FCREP O-3263</td>
<td>NonRdfSource descriptions are missing headers</td>
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<td>FCREP O-3259</td>
<td>User provided RDF does not get the correct subject</td>
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<td>Mar 31, 2020</td>
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<tr>
<td>FCREP O-3254</td>
<td>Replace String resource IDs with new FedoraID class</td>
<td>Mar 19, 2020</td>
<td>Apr 04, 2020</td>
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<td>Andrew Woods</td>
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<tr>
<td>FCREP O-3246</td>
<td>Cannot create binary resources with content types claimed by RDF sources</td>
<td>Mar 10, 2020</td>
<td>Apr 02, 2020</td>
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<td>Jared Whiklo</td>
<td>Peter Winckles</td>
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5 issues

3. Tickets created this week:

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Minutes

1. Housekeeping:
   a. Sprint Dates: [https://doodle.com/poll/2vgw3huvr8dugeuq](https://doodle.com/poll/2vgw3huvr8dugeuq):
      i. Sept 10-24
      ii. Oct 1-14
   b. Leader for next week's call
      i. Andrew will lead the discussion. (Thank You Andrew!)
2. OR Impressions discussion
   a. Danny: Signposting.
   b. Bseeger: Surprised by negative comments about Fedora here and there. Need to focus on users.
   c. Peter: Josh attended. People gun shy about Fedora. People kept returning to the many members problem. Unclear whether the problem was Fedora or ActiveFedora. Could be conflating ActiveFedora's performance with Fedora's performance.
   d. Carrick: Samvera community does split between those who understand that ActiveFedora is an issue while others blame Fedora (for the many members problem). Some problems are fixable with Solr tuning, others are intractable as it has to do with ActiveFedora specifically.
   e. Bseeger: Work on advertising our strengths.
   f. Carrick: Sometimes it is tuning Tomcat, for example, that could address performance issues.
   g. Danny: Is the current documentation insufficient? Carrick: There are a number who have optimized locally (at Northwestern, at Stanford, at Princeton) but this information has never been clearly shared among us.
   h. Doron: Agree with performance comments. Those who have had difficulty adopting Fedora are those of us who have many relationships with other objects, which may be the many member issue. We’ve felt we have had to look elsewhere. Perhaps also demonstrate how to use Fedora given this scenario (a book with many pages, e.g.). Address performance for those use cases and provide guidance on how to do it.
   i. Andrew: Solutions for the many members are not necessarily clear or optimal for users. One could reverse the relationship, but under the hood we still maintain bidirectional relationships and that might not solve the problem. It has never been tested properly, to my knowledge. Another way is to store the relationships in a text file, for example, and parse it when needed. It is worth noting that a lot of the work being done is to decouple from Modeshape, which is the ultimate source of this issue.
   j. Danny: Perhaps communication is needed too, such as mapping out a timeline to move from modeshape and advertising that.
   k. Doron: Common use cases are difficult in the current stack.
   l. Carrick: Would like guidance about how best to model things for Fedora. We are creating a lot of blank nodes.
   m. Yinin: In some use cases, Fedora is not the root cause of the performance problem. E.g. Adam’s presentation at Samvera Connect 2017. Need to figure out a way to provide guidance about the best way to use Fedora. Otherwise people use it badly and blame Fedora.
3. Getting to 5.0
   a. In progress tickets
      i. FCREPO-2742 - Allow single-document ACLs using hash URIs for authorizations. [REOPENED]
ii.  FCREPO-2717 - A PUT on an LDP-RS should be denied if acl:Append applies
    1. Peter: Have to look into availability to bring this to completion, perhaps in the next few days.

iii. FCREPO-2718 - Disallow PUT, POST, and DELETE on LDP-NR where acl:Append applies
    1. Peter: Have to look into availability to bring this to completion, perhaps in the next few days.

iv. FCREPO-2771 - Mementos have incorrect subject returned
    1. Danny: Need someone to take this on. Probably not a lot of work, but someone with know-how will be best.
    2. Bethany: On it.

b. Remaining external content (low-hanging; ie volunteers?) issues:
   i. No comment.

   c. 5.x Documentation Effort matrix
      i. Moving along.
      ii. Perhaps explore the possibility of highlighting to which version of Fedora the page pertains. Or using a macro so we don't have to alter every documentation page per Fedora version.
      iii. Contributors welcome.

   d. Compatibility Test Kit
      i. Danny: What to do with this? Re-engage the contractors who had worked on it previously?
      ii. Andrew: I can reach out to them and see if they have availability, but before I do that I would prefer to make sure no one on this call wants to take this on.
      iii. https://github.com/fcrepo4-labs/Fedora-API-Test-Suite

**Actions**

- [ ] Danny to explore inserting a macro into documentation for Fedora version.
- [ ] Send email to community seeing who is interested in reviving OAI