2019-02 Fedora Design Meeting

Logistic

When

- Feb 26th - Feb 28th, 2019
- Travel on Feb 25th and Mar 1st
  - Arrive at house after 4pm, Feb 25th
  - Depart from house before 10am, Mar 1st
- Team Travel Plans

Where

- 3345 Sandpiper Rd, Virginia Beach, VA 23456
- House on Virginia Beach - "The Sizzle"

House logistics

The Sandbridge Realty Staff would like to welcome you to the beach! Check-in begins at our office, located at 581 Sandbridge Rd. Virginia Beach, VA 23456 promptly at 4:00 p.m .

Directions to Sandbridge Realty can be found on our homepage: http://sandbridge.com/gethere.htm

Please remember it is EXTREMELY important that guests do NOT arrive at the property prior to 4 p.m . Undue delay can occur with your check-in if our housekeeping, inspection, and maintenance staff cannot gain adequate access to the property parking.

Bring a picture ID at the time of check-in. Renters must be at least 25 years of age.

LINENS, TOWELS, & BEDMAKING SERVICE ARE ALL INCLUDED IN YOUR STAY- PLEASE BRING YOUR OWN BEACH TOWELS! Bed making does not include top bunks, trundles, or futons.

LATE ARRIVALS after 5 P.M .:
If you arrive at Sandbridge Realty after business hours, there is no need to worry or call. We will automatically place your Check-In Packet in our Late Arrivals Box, which is located in our 24-hour lobby. Simply open the Late Arrivals Box and take the package with your name on it.
A map with directions to the rental property and keys is provided with your check-in packet.

Pet Policy: Please keep in mind, if you have not rented a "Pet Friendly" home, pets are NOT ALLOWED.

Suggested items to bring to the rental property:
(Grocery stores are close by for shopping needs)
Toilet paper, paper towels, baby furnishings & equipment, all-purpose cleaner, hair dryer, bath soap/shampoo, dish & laundry detergent, groceries & condiments, garbage bags, aluminum foil/plastic wrap, dish cloths or sponges.

Who

1. Aaron Birkland
2. Andrew Woods
3. Ben Pennell
4. Bethany Seeger
5. Danny Bernstein
6. Peter Eichman
7. Yinlin Chen

Resources

Use cases (wiki)

1. Bulk upload
   - Structured ingest: images/metadata, via filesystem?
2. Dynamic scalability (storage and response time)
3. Cloud storage
4. Basic query
5. Backup / restore
   - disaster recovery
6. Multi-tenancy
7. Binary fixity
   - storing fixity
   - comparing stored with computed
8. Object validation
   - fixity of children, based on type
   - log results
9. Auto health checks
   - Index of all resources
   - Configurable frequency
   - report/log
10. Migration
    a. URIs must remain unchanged from 4 5 6
11. Atomic version of multiple requests
    - Version on-demand?
    - Transactions?
12. Durable identifiers
    - Non-URL IDs?
    - ARKs, DOIs
13. IIIF integration

Topics

1. OCFL
   a. Points to clarify
      i. Mapping between Fedora resources and OCFL Storage Root and OCFL Objects
         1. How does Fedora persist to OCFL
         2. How does an existing OCFL hierarchy map into Fedora (no current use case provided)
      ii. Cross-referencing between OCFL Objects (including linking to files within OCFL Objects)
      iii. OCFL identifiers: Fedora URLs? internal URIs?
      iv. Decoupling LDP containment from OCFL Object path?
      v. Creating OCFL versions
      vi. External content handling
   b. OCFL Tooling: What is the MVP for initial testing?
      i. Mock OCFL for prototyping
      ii. OCFL client API
   c. Performance considerations
      i. Many members scenario
2. Fedora 2019 architecture
   a. Refactoring away from ModeShape by implementing:
      i. fcrepo-kernel-modeshape (JCR interfaces)?
      ii. fcrepo-kernel-api?
      iii. fcrepo-http-api?

         1. fcrepo-auth-common
            a. classes: 19
            b. lines: 1697 total
         2. fcrepo-auth-webac
            a. classes: 14
            b. lines: 4652 total
         3. fcrepo-event-serialization
            a. classes: 8
            b. lines: 724 total
         4. fcrepo-http-api
            a. classes: 51
            b. lines: 18908 total
         5. fcrepo-http-commons
            a. classes: 131
            b. lines: 10162 total
         6. fcrepo-integration-ldp
            a. classes: 1
            b. lines: 180
         7. fcrepo-integration-rdf

a. classes: 15
                    b. lines: 1293 total
                8. fcrepo-jms
                    a. classes: 13
                    b. lines: 1090 total
                9. fcrepo-kernel-api
                    a. classes: 90
                    b. lines: 5666 total
                10. fcrepo-kernel-modeshape
                    a. classes: 174
                    b. lines: 27319 total
                11. fcrepo-webapp
                    a. classes: 4
                    b. lines: 731 total
                12. fcrepo4
                    a. classes: 520
                    b. lines: 72422 total
        b. Layers of abstraction
                i. Persistence (OCFL client API <=> fcrepo-kernel-api)
                ii. Query API
    3. Migrations
        a. Fedora 3? 4 5 6
        b. Retaining URIs
        c. Transforming F3 FOXML into OCFL (review migration-utils)
    4. Persistent identifiers
    5. API + Plus
        a. Object validation
        b. Configurable health checks
        c. Transactions?

Development topics

    1. Limiting Fedora dependency on Modeshape to fcrepo-kernel-modeshape
    2. Re-implementing Fedora persistence for OCFL
        a. fcrepo-kernel-api?
                i. Fedora dependencies on JCR and Modeshape
        b. fcrepo-http-api?
    3. Mocking OCFL client
    4. OCFL Go library

Agenda

Call-in: https://duraspace.zoom.us/my/fedora

Tuesday - 2019-02-26

Time	Topic		
	Breakfast		
9am	Stand-up • Context setting • Objectives for the week		
9:30am	Agenda creation from above "Topics"		
4pm	Daily debrief		
	Dinner		
7pm	Implementation		

Wednesday - 2019-02-27

Time	Topic		
	Breakfast		
9am	Stand-up		

4pm	Daily debrief		
	Dinner		
7pm			

Thursday - 2019-02-28

Time	Topic		
	Breakfast		
9am	Stand-up		
4pm	Daily debrief		
	Dinner		
7pm			