2017-01-16 Performance - Scale meeting

Time/Place

- Time: 11:00AM Eastern Time US (UTC-5)
- Dial-in Number: (712) 775-7035
  - Participant Code: 479307#
  - International numbers: Conference Call Information

Attendees

- Nick Ruest
- Andrew Woods
- Yinlin Chen
- Colin Gross
- Kevin Ford
- Kieran Etienne
- Danny Bernstein

Agenda

1. Topics on fedora performance/scaling
   a. https://docs.google.com/document/d/1AVYmsgbl-NuCtpmvfHYMqes2izR7leGEIcDx0Yt7q7YU/edit
2. 2016 work summary
   a. Review Performance and Scalability Test Plans
   b. Graphing of JMeter results, script
   c. I/O benchmarking of test environment, script
   d. Collection of basic test environment characteristics, script
3. Hydra - Fedora performance (?)
4. Islandora - Fedora performance (?)
5. Next meeting time 02/13/2017 11am.

Minutes

Topics on Fedora Performance/Scaling

- Nick - none
- Colin - mocking large-scale tests, alt-methods of doing that
  - desire to test multi-TB loads
- Kieran - interested in testing processes and procedures
  - are both Tomcat and Jetty tested? - mostly Tomcat
- Kevin - interested in validating release candidates
  - now more generally interested in loading issues
  - multi-threading topics
- Danny - interested in scaling as it relates to HyBox
  - "many members" issue
  - multi-tenant support
    - Colin has done this in Hydra... but has not been able to backup single hierarchies
    - using different base-containers
  - Yinlin - interested in large files

2016 work summary

- Are the defined tests adequate for the interests above?
  - Challenge in have a test environment that has enough disk space
  - Maybe use OpenSSH:rand to mock many files
  - Is running this on AWS infrastructure a possibility?
    - Who is going to pay for a 20-TB EBS volume?
    - Performant disk i/o can be expensive in AWS
    - AWS tests should include data around size/time/cost of previous tests
- We need to summarize the results of 2016 testing
  - Colin available to help in the visualization of the previous test results
  - Yinlin has created graphs of his tests
  - Yinlin has modified scripts based on team feedback
- Yinlin - need to write report for each test
- Interest in maintaining results in a GitHub
  - ACTION: create results repo in fcrepo4-labs
  - ACTION: write a report from last year’s results
  - Current reports do not provide immediate clarity of the state of Fedora
Volunteers:
- Colin to work on scripts - fcrepo4-labs
- Nick/Yinlin to work on drafting - will use GitHub
- Colin to generate R-Script outputs that can be starting point for summary doc
- Data result locations: post to S3

Actions
- [x] Colin Gross to transfer fcrepo_perf_analysis to fcrepo4-labs
- [x] Andrew Woods to post test outputs to S3
- [ ] Colin Gross to push outputs from R-scripts to GitHub
- [x] Nick Ruest and Yinlin Chen to take above R-script output as starting point for performance test summary report