

Release Testing - 4.7.4

Testing Blocker Tickets

- RC-1
 - Reverting inadvertent breaking-change commit: <https://github.com/fcrepo4/fcrepo4/commit/a1fb5e2044122584a1a808f0ea811a701702370>
- RC-2
 - Unable to locate Jira server for this macro. It may be due to Application Link configuration. - non-blocker

External Projects

Hydra ([instructions](#))

Project	Tested by	Success? RC-1	Success RC-2	Notes
ActiveFedora	Jennifer Smith	✓	✓	
CurationConcerns				
Hyrax	Jennifer Smith	✓	✓	
Sufia	Jennifer Smith	✓	✓	Tested sufia 7.3-stable branch. Had to change i18n gem to version 0.8.1.
Plum	Esmé Cowles	✓	✓	
Valkyrie	Esmé Cowles	✓	✓	
Avalon 6.0	Carrick Rogers	blocked URL	blocked URL	Also currently running on our AWS based staging environment. Plans to do load testing and performance testing as well.

Islandora

Project	Tested by	Success? RC-1	Success? RC-2	Notes
CLAW	Daniel Lamb		blocked URL	Tested basic CRUD and "relaxed" system properties.

API-X

Project	Tested by	Success? RC-1	Success? RC-2	Notes
fcrepo-api-x-integration	Aaron Birkland		blocked URL	
fcrepo-api-x-demo (Docker)	Aaron Birkland		✓	Previous versions of Fedora had to be patched due to unreleased bugfixes. 4.7.4-RC2 worked OK out of the box.

Testing Plan

```
git clone https://github.com/fcrepo4/fcrepo4
cd fcrepo4
git checkout 4.7.4-RC
```

Sanity Builds

Project	Command	Platform	Tested by	Success RC1?	Success RC2?	Notes
fcrepo4	mvn clean install	linux	Andrew Woods		✓	

fcrepo4	mvn clean install	mac	Jared Whiklo	✓	✓	
fcrepo4	mvn clean install	windows	Aaron Birkland		✓	
fcrepo-module-auth-rbac	mvn clean install	linux	Andrew Woods		✓	
fcrepo-module-auth-rbac	mvn clean install	mac	Jared Whiklo	✓	✓	
fcrepo-module-auth-rbac	mvn clean install	windows	Aaron Birkland		✓	
fcrepo-module-auth-xacml	mvn clean install	linux	Andrew Woods		✓	
fcrepo-module-auth-xacml	mvn clean install	mac	Jared Whiklo	✓	✓	
fcrepo-module-auth-xacml	mvn clean install	windows	Aaron Birkland		✓	
fcrepo-module-auth-webac	mvn clean install	linux	Andrew Woods		✓	
fcrepo-module-auth-webac	mvn clean install	mac	Jared Whiklo	✓	✓	
fcrepo-module-auth-webac	mvn clean install	windows	Aaron Birkland		✓	
fcrepo-mint	mvn clean install	linux	Andrew Woods		✓	
fcrepo-mint	mvn clean install	mac	Jared Whiklo	✓	✓	
fcrepo-mint	mvn clean install	windows	Aaron Birkland		✓	
fcrepo-audit	mvn clean install	linux	Andrew Woods		✓	
fcrepo-audit	mvn clean install	mac	Jared Whiklo	✓		
fcrepo-audit	mvn clean install	windows	Aaron Birkland		✓	
fcrepo-webapp-plus	mvn clean install	linux	Andrew Woods		✓	
fcrepo-webapp-plus	mvn clean install	mac	Jared Whiklo	✓		
fcrepo-webapp-plus	mvn clean install	windows	Aaron Birkland		✓	
fcrepo-webapp-plus	mvn clean install -Pwebac	linux	Andrew Woods		✓	
fcrepo-webapp-plus	mvn clean install -Pwebac	mac	Jared Whiklo	✓		
fcrepo-webapp-plus	mvn clean install -Pwebac	windows	Aaron Birkland		✓	

One-Click Run

```
cd fcrepo-webapp; mvn clean install -Pone-click
```

Command	Platform	Tested by	Success RC1?	Success RC2?	Notes
java -jar fcrepo-webapp-<version>-SNAPSHOT-jetty-console.jar	Linux	Andrew Woods	✓		
java -jar fcrepo-webapp-<version>-SNAPSHOT-jetty-console.jar	Mac	Danny Bernstein	✓		
java -jar fcrepo-webapp-<version>-SNAPSHOT-jetty-console.jar	Windows	Aaron Birkland		✓	

Manual Tests

All of the below should take place in the HTML UI and non-vagrant tests should run against **fcrepo-webapp-plus**.

1. Create nested containers
2. Create binary resources
3. Run fixity on binary
4. Update Properties: Perform SPARQL-Update on container
5. Update Properties: Perform SPARQL-Update on binary
6. Delete container
7. Delete binary
8. Use transactions
9. Create versions
10. View versions
11. Rollback versions

Database Tests

With Tomcat7 deployment, run above manual tests with alternate backend databases ([Configuring JDBC Object Store](#))

Database	Platform	Tested by	Success RC2?	Notes
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MySQL	osx	Danny Bernstein	✓ except issue with #9 ✗	em? Unable to locate Jira server for this macro. It may be due to Application Link configuration. Issue has nothing to do with mysql or database use.
PostgreSQL	linux	Jared Whiklo	✓	Postgres 9.3.14

fcr:backup/fcr:restore Functionality

These tests are designed to ensure the proper function of the 'fcr:backup/fcr:restore' features by testing them against various Fedora configurations. The validity of the 'restore' can only be determined by crawling the repository and verifying the successful retrieval of the repository's content.

If the anticipated Fedora release is not backwards compatible with the previous version of Fedora, then the "From Fedora Version" should be the previous version. Otherwise, it is sufficient to test the fcr:backup/fcr:restore functionality using the same version.

See: [RESTful HTTP API - Backup and Restore](#)

```
# Backup
curl -X POST localhost:8080/rest/fcr:backup

# Restore
curl -X POST -d "/path/to/backup/directory" localhost:8080/rest/fcr:restore
```

Resources

- These python scripts - [fcrepo-testing](#) - can be used to load RDF content and binary content to a Fedora repository and verify the integrity of the loaded resources. Output from the load process can be used to verify the integrity of a 'restored' repository. See the [README](#) for more info.
- This [script](#) can be used to walk your repository, failing if a non-success response is encountered.

Tested by	Platform	Container (Tomcat/Jetty)	Database Backend	From Fedora Version	To Fedora Version	Number of RDF Resources	Number of Binaries	Size of Backup (du -h .)	Success?	Notes
Andrew Woods	Linux	Jetty	File-simple	4.7.4	4.7.4	100	100	58M	✓	

NB: "Success" is measured not by receiving a "204 No Content" message after the 'fcr:restore' command, but by performing a GET on every resource in the repository and receiving "200 OK" messages.

Vagrant Tests

```
vagrant destroy
vagrant up
```

Test steps	Tested by	Success RC1?	Success RC2?	Notes
FEDORA_AUTH=true FEDORA_AUDIT=false	Andrew Woods		✓	
FEDORA_AUTH=false FEDORA_AUDIT=false	Andrew Woods		✓	
FEDORA_AUTH=true FEDORA_AUDIT=true	Andrew Woods		✓	
FEDORA_AUTH=false FEDORA_AUDIT=true	Andrew Woods		✓	

Manual Tests

Same as above, plus:

1. Verify audit events are in triplestore
2. Verify resources are in triplestore
3. Verify resources are in Solr
4. Verify authorization works for the two auth-enabled configurations
5. Verify reindexing to triplestore works

Backwards Compatibility Tests

1. Start [4.7.0 one-click](#)
2. Load [sample datasets](#) via `/fcr:restore`
3. Run [test scripts](#) on 4.7.0
4. Stop 4.7.0
5. Start RC one-click
6. Run [test scripts](#) on RC
7. ReStart RC
8. Run [test scripts](#) on RC

Tested by	Success RC2	Notes
Andrew Woods	✓	

Resources

[1] [Testing scripts](#)

[2] [Fedora 4 Release Test Suite](#)