

# Release Testing - 4.7.0

- [Testing Blocker Tickets](#)
- [External Projects](#)
  - [Hydra](#)
  - [Islandora -](#)
- [Testing Plan](#)
  - [Sanity Builds](#)
  - [Migration of Existing Repositories](#)
  - [Filesystem Federation](#)
  - [One-Click Run](#)
    - [Manual Tests](#)
  - [Database Tests](#)
  - [Vagrant Tests](#)
    - [Manual Tests](#)

## Testing Blocker Tickets

- RC-1
  - Unable to locate Jira server for this macro. It may be due to Application Link configuration.

## External Projects

### Hydra

| Project          | Success?                      |
|------------------|-------------------------------|
| ActiveFedora     | ✗ See <a href="#">AF#1156</a> |
| CurationConcerns | ✓                             |
| Plum             | ✓                             |
| Sufia            | ✓                             |

### Islandora - ✓

One issue related to this update is in process to be resolved.  
<https://github.com/Islandora-CLAW/CLAW/issues/370>

## Testing Plan

```
git clone https://github.com/fcrepo4/fcrepo4
cd fcrepo4
git checkout 4.7.0-RC
```

### Sanity Builds

| Project | Command           | Platform | Tested by                      | Success? | Notes                                |
|---------|-------------------|----------|--------------------------------|----------|--------------------------------------|
| fcrepo4 | mvn clean install | linux    | <a href="#">Jared Whiklo</a>   | ✓        | Ubuntu 14.04 LTS                     |
|         |                   |          | <a href="#">Nick Ruest</a>     | ✓        | Ubuntu 16.04 LTS                     |
|         |                   |          | <a href="#">Andrew Woods</a>   | ✓        | Ubuntu 16.04 LTS                     |
| fcrepo4 | mvn clean install | mac      | <a href="#">Jared Whiklo</a>   | ✓        |                                      |
| fcrepo4 | mvn clean install | windows  | <a href="#">Aaron Birkland</a> | ✓        | Windows 10 (1607) x64; 1.8.0_101-b13 |

|                          |                               |         |                                 |   |                                        |
|--------------------------|-------------------------------|---------|---------------------------------|---|----------------------------------------|
| fcrepo-module-auth-rbac1 | mvn clean install             | linux   | <a href="#">Jared Whiklo</a>    | ✓ | Ubuntu 14.04 LTS                       |
|                          |                               |         | <a href="#">Andrew Woods</a>    | ✓ | Ubuntu 16.04 LTS                       |
| fcrepo-module-auth-rbac1 | mvn clean install             | mac     | <a href="#">Jared Whiklo</a>    | ✓ |                                        |
| fcrepo-module-auth-rbac1 | mvn clean install             | windows | <a href="#">Aaron Birkland</a>  | ✓ | Windows 10 (1607) x64; 1.8.0_101-b13   |
| fcrepo-module-auth-xacml | mvn clean install             | linux   | <a href="#">Jared Whiklo</a>    | ✓ | Ubuntu 14.04 LTS                       |
|                          |                               |         | <a href="#">Andrew Woods</a>    | ✓ | Ubuntu 16.04 LTS                       |
| fcrepo-module-auth-xacml | mvn clean install             | mac     | <a href="#">Jared Whiklo</a>    | ✓ |                                        |
| fcrepo-module-auth-xacml | mvn clean install             | windows | <a href="#">Aaron Birkland</a>  | ✓ | Windows 10 (1607) x64; 1.8.0_101-b13   |
| fcrepo-module-auth-webac | mvn clean install             | linux   | <a href="#">Jared Whiklo</a>    | ✓ | Ubuntu 14.04 LTS                       |
|                          |                               |         | <a href="#">Andrew Woods</a>    | ✓ | Ubuntu 16.04 LTS                       |
| fcrepo-module-auth-webac | mvn clean install             | mac     | <a href="#">Jared Whiklo</a>    | ✓ |                                        |
| fcrepo-module-auth-webac | mvn clean install             | windows | <a href="#">Aaron Birkland</a>  | ✓ | Windows 10 (1607) x64; 1.8.0_101-b13   |
| fcrepo-mint              | mvn clean install             | linux   | <a href="#">Jared Whiklo</a>    | ✓ | Ubuntu 14.04 LTS                       |
|                          |                               |         | <a href="#">Andrew Woods</a>    | ✓ | Ubuntu 16.04 LTS                       |
| fcrepo-mint              | mvn clean install             | mac     | <a href="#">Jared Whiklo</a>    | ✓ |                                        |
| fcrepo-mint              | mvn clean install             | windows | <a href="#">Aaron Birkland</a>  | ✓ | Windows 10 (1607) x64; 1.8.0_101-b13   |
| fcrepo-connector-file    | mvn clean install             | linux   | <a href="#">Jared Whiklo</a>    | ✓ | Ubuntu 14.04 LTS                       |
|                          |                               |         | <a href="#">Andrew Woods</a>    | ✓ | Ubuntu 16.04 LTS                       |
| fcrepo-connector-file    | mvn clean install             | mac     | <a href="#">Jared Whiklo</a>    | ✓ |                                        |
| fcrepo-connector-file    | mvn clean install             | windows | <a href="#">Aaron Birkland</a>  | ✓ | Windows 10 (1607) x64; 1.8.0_101-b13   |
| fcrepo-audit             | mvn clean install             | linux   | <a href="#">Jared Whiklo</a>    | ✓ | Ubuntu 14.04 LTS                       |
|                          |                               |         | <a href="#">Andrew Woods</a>    | ✓ | Ubuntu 16.04 LTS                       |
| fcrepo-audit             | mvn clean install             | mac     | <a href="#">Jared Whiklo</a>    | ✓ |                                        |
| fcrepo-audit             | mvn clean install             | windows | <a href="#">Aaron Birkland</a>  | ✓ | Windows 10 (1607) x64; 1.8.0_101-b13   |
| fcrepo-webapp-plus       | mvn clean install             | linux   | <a href="#">Jared Whiklo</a>    | ✓ | Ubuntu 14.04 LTS                       |
|                          |                               |         | <a href="#">Andrew Woods</a>    | ✓ | Ubuntu 16.04 LTS                       |
| fcrepo-webapp-plus       | mvn clean install             | mac     | <a href="#">Jared Whiklo</a>    | ✓ |                                        |
| fcrepo-webapp-plus       | mvn clean install             | windows | <a href="#">Aaron Birkland</a>  | ✓ | Windows 10 (1607) x64; 1.8.0_101-b13   |
| fcrepo-webapp-plus       | mvn clean install -Prbac1     | mac     | <a href="#">Jared Whiklo</a>    | ✓ |                                        |
| fcrepo-webapp-plus       | mvn clean install -Prbac1     | windows | <a href="#">Aaron Birkland</a>  | ✓ | Windows 10 (1607) x64; 1.8.0_101-b13   |
| fcrepo-webapp-plus       | mvn clean install -Prbac1     | linux   | <a href="#">Jared Whiklo</a>    | ✓ | Ubuntu 14.04 LTS                       |
|                          |                               |         | <a href="#">Andrew Woods</a>    | ✓ | Ubuntu 16.04 LTS                       |
| fcrepo-webapp-plus       | mvn clean install -Pxacml     | mac     | <a href="#">Jared Whiklo</a>    | ✓ |                                        |
| fcrepo-webapp-plus       | mvn clean install -Pxacml     | windows | <a href="#">Aaron Birkland</a>  | ✓ | Windows 10 (1607) x64; 1.8.0_101-b13cd |
| fcrepo-webapp-plus       | mvn clean install -Pxacml     | linux   | <a href="#">Jared Whiklo</a>    | ✓ | Ubuntu 14.04 LTS                       |
|                          |                               |         | <a href="#">Andrew Woods</a>    | ✓ | Ubuntu 16.04 LTS                       |
| fcrepo-webapp-plus       | mvn clean install -Pconnector | mac     | <a href="#">Danny Bernstein</a> | ✓ | OSX 10.10.5                            |
| fcrepo-webapp-plus       | mvn clean install -Pconnector | Linux   | <a href="#">Andrew Woods</a>    | ✓ | Ubuntu 16.04 LTS                       |

## Migration of Existing Repositories

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

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

# Restore to 4.7.0
curl -X POST -d "/path/to/backup/directory" localhost:8080/rest/fcr:restore
```

| Tested by                       | Platform                    | From Fedora Version                           | Number of Resources              | Size of Backup (du -h .) | Success? | Notes                                                                                                                                                                                                              |
|---------------------------------|-----------------------------|-----------------------------------------------|----------------------------------|--------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">Nick Ruest</a>      | Ubuntu 16.04.1              | 4.6.0                                         | ?                                | 44M                      | ✓        | LUBM_02 dataset                                                                                                                                                                                                    |
| <a href="#">Joshua Westgard</a> | Mac OS 10.11.6 (El Capitan) | 4.6.0                                         | ~2400                            | 5.2G                     | ✓        | Also successfully ran import/export tooling against a 4.7 RC2 repo.                                                                                                                                                |
| <a href="#">Tricia Jenkins</a>  | Centos 6.8                  | Release: 4.1.0   Build #4a7d6f9e (2015-02-04) | ~60                              | 11M                      | ✓        | Am working toward a complete set of Hydranorth content (~213218 resources).                                                                                                                                        |
| <a href="#">Julie Allinson</a>  | Mac OS 10.10.5              | 4.6 (data created in 4.4)                     | ~ 113000 (~ 12GB in data folder) | ~ 93MB                   | ✓        | No binary files, just metadata in this repo.<br><br>"java.sql.BatchUpdateException: Duplicate entry" error. Fixed with backup-fixer.jar<br><br>Need to verify all objects restored. Data folder post restore ~ 7GB |

## Filesystem Federation

[Test simple federation](#)

| Tested by                    | Platform | Success? | Notes                                                                                               |
|------------------------------|----------|----------|-----------------------------------------------------------------------------------------------------|
| <a href="#">Andrew Woods</a> | Linux    | ✓        | Success viewing federated files<br>Success adding new files to filesystem and seeing them in Fedora |
| <a href="#">Jared Whiklo</a> | Mac      | ✓        | Success viewing federated files<br>Success adding new files to filesystem and seeing them in Fedora |

## One-Click Run

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

| Command                                                  | Platform | Tested by                      | Success? | Notes |
|----------------------------------------------------------|----------|--------------------------------|----------|-------|
| java -jar fcrepo-webapp-4.7.0-SNAPSHOT-jetty-console.jar | Linux    | <a href="#">Nick Ruest</a>     | ✓        |       |
| java -jar fcrepo-webapp-4.7.0-SNAPSHOT-jetty-console.jar | Mac      | <a href="#">Jared Whiklo</a>   | ✓        |       |
| java -jar fcrepo-webapp-4.7.0-SNAPSHOT-jetty-console.jar | Windows  | <a href="#">Aaron Birkland</a> | ✓        |       |
| java -jar fcrepo-webapp-4.7.0-SNAPSHOT-jetty-console.jar | Linux    | <a href="#">Andrew Woods</a>   | ✓        |       |

## Manual Tests

All of the below should take place in the HTML UI.

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? | Notes                                                                                                                                                                                                                                                                                         |
|------------|---------------|---------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MySQL      | osx (10.10.5) | <a href="#">Danny Bernstein</a> | ✓        |                                                                                                                                                                                                                                                                                               |
|            | Ubuntu 14.04  | <a href="#">Andy Wagner</a>     | ✓        | 10.0.24-MariaDB-1~trusty-wsrep                                                                                                                                                                                                                                                                |
|            | Ubuntu 16.04  | <a href="#">Andrew Woods</a>    | ✓        | mysql Ver 14.14 Distrib 5.7.16 <ul style="list-style-type: none"> <li>• Success with <a href="#">fcrepo4-tests scripts</a></li> <li>• Success with <a href="https://github.com/yinlinchen/fcrepo4-release-test-suite">https://github.com/yinlinchen/fcrepo4-release-test-suite</a></li> </ul> |
| PostgreSQL | Ubuntu 14.04  | <a href="#">Andy Wagner</a>     | ✓        | Postgresql 9.5                                                                                                                                                                                                                                                                                |

## Vagrant Tests

```
vagrant destroy
vagrant up
```

| Test steps         | Tested by                       | Success? | Notes                                                                                                                                            |
|--------------------|---------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| FEDORA_AUTH=true   | <a href="#">Yinlin Chen</a>     | ✓        | 4.7.0-RC is passed [2].                                                                                                                          |
| FEDORA_AUDIT=true  | <a href="#">Nick Ruest</a>      | ✓        | <a href="#">Nick Ruest</a> "==" default: Error executing command: No matching features for fcrepo-camel-ldpath/0.0.0"                            |
| FEDORA_AUTH=false  | <a href="#">Nick Ruest</a>      | ✓        | <a href="#">Nick Ruest</a> "==" default: Error executing command: No matching features for fcrepo-camel-ldpath/0.0.0"                            |
| FEDORA_AUDIT=true  | <a href="#">Yinlin Chen</a>     | ✓        | 4.7.0-RC c325e30 is passed [2].                                                                                                                  |
| FEDORA_AUTH=true   | <a href="#">Danny Bernstein</a> | ✓        | <a href="#">Nick Ruest</a> "==" default: Error executing command: No matching features for fcrepo-camel-ldpath/0.0.0"   All testing scripts pass |
| FEDORA_AUDIT=false | <a href="#">Nick Ruest</a>      | ✓        |                                                                                                                                                  |
|                    | <a href="#">Yinlin Chen</a>     | ✓        |                                                                                                                                                  |
| FEDORA_AUTH=false  | <a href="#">Andy Wagner</a>     | ✓        | All scripts pass.                                                                                                                                |
| FEDORA_AUDIT=false | <a href="#">Yinlin Chen</a>     | ✓        | 4.7.0-RC c325e30 is passed [2].                                                                                                                  |
|                    |                                 |          |                                                                                                                                                  |

## 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

[1] [Testing scripts](#)

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

Ubuntu 14.04 LTS