

# Release Testing - 5.1.0

## Testing Blocker Tickets

- ...

## External Projects

### Samvera

| Project          | Tested by                   | Success?<br>RC-1            | Success?<br>RC-2            | Success?<br>RC-3            | Notes |
|------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------|
| ActiveFedora     |                             |                             |                             |                             |       |
| CurationConcerns |                             |                             |                             |                             |       |
| Hyrax            |                             |                             |                             |                             |       |
| Valkyrie         | <a href="#">Esmé Cowles</a> | <a href="#">blocked URL</a> | <a href="#">blocked URL</a> | <a href="#">blocked URL</a> |       |
| Sufia            |                             |                             |                             |                             |       |

### Islandora

| Project     | Tested by                                                                 | Success?<br>RC-1 | Success?<br>RC-2            | Success?<br>RC-3 | Notes                                                                                                                                                                |
|-------------|---------------------------------------------------------------------------|------------------|-----------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Islandora 8 | <a href="#">Jared Whiklo</a> (RC-1)<br><a href="#">Daniel Lamb</a> (RC-2) |                  | <a href="#">blocked URL</a> |                  | Confirmed <a href="https://jira.duraspace.org/projects/FCREPO/issues/FCREPO-3015">https://jira.duraspace.org/projects/FCREPO/issues/FCREPO-3015</a> is fixed in RC-2 |

## Testing Plan

```
git clone https://github.com/fcrepo4/fcrepo4
cd fcrepo4
git checkout <version>-RC
```

## Sanity Builds

### Scripts

<https://github.com/awoods/fcrepo-build-scripts>

| Project | Command           | Platform | Tested by                      | Success?<br>RC-1            | Success?<br>RC-2 | Success?<br>RC-3                                            | Notes |
|---------|-------------------|----------|--------------------------------|-----------------------------|------------------|-------------------------------------------------------------|-------|
| fcrepo4 | mvn clean install | linux    | <a href="#">Yinlin Chen</a>    | <a href="#">blocked URL</a> |                  | <a href="#">blocked URL</a>                                 |       |
| fcrepo4 | mvn clean install | mac      | <a href="#">Jared Whiklo</a>   |                             |                  | <a href="#">blocked URL</a> ( <a href="#">Yinlin Chen</a> ) |       |
| fcrepo4 | mvn clean install | windows  | <a href="#">Aaron Birkland</a> |                             |                  |                                                             |       |

## One-Click Run

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

| Command                                                      | Platform | Tested by                    | Success?<br>RC-1            | Success?<br>RC-2                                                            | Success?<br>RC-3            | Notes |
|--------------------------------------------------------------|----------|------------------------------|-----------------------------|-----------------------------------------------------------------------------|-----------------------------|-------|
| java -jar fcrepo-webapp-<version>-SNAPSHOT-jetty-console.jar | Linux    | <a href="#">Yinlin Chen</a>  | <a href="#">blocked URL</a> | <ul style="list-style-type: none"><li><a href="#">Ben Pennell</a></li></ul> | <a href="#">blocked URL</a> |       |
| java -jar fcrepo-webapp-<version>-SNAPSHOT-jetty-console.jar | Mac      | <a href="#">Jared Whiklo</a> |                             | ( <a href="#">Danny Bernstein</a> )                                         | <a href="#">blocked URL</a> |       |
| java -jar fcrepo-webapp-<version>-SNAPSHOT-jetty-console.jar | Windows  |                              |                             |                                                                             |                             |       |

## Manual Tests

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

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

| Platform       | Tested by                       | Success?<br>RC-1 | Success?<br>RC-2 | Success?<br>RC-3 | Notes |
|----------------|---------------------------------|------------------|------------------|------------------|-------|
| OS X           | <a href="#">Jared Whiklo</a>    | ✓                | ✓                |                  |       |
| Linux (Ubuntu) | <a href="#">Danny Bernstein</a> |                  |                  | ✓                |       |

## Database Tests

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

| Database   | Platform | Tested by                   | Success?<br>RC-1 | Success?<br>RC-2 | Success?<br>RC-3 | Notes    |
|------------|----------|-----------------------------|------------------|------------------|------------------|----------|
| MySQL      | Ubuntu   | <a href="#">Yinlin Chen</a> | blocked URL      | blocked URL      | blocked URL      | Tomcat 8 |
| PostgreSQL | Ubuntu   | <a href="#">Yinlin Chen</a> | blocked URL      | blocked URL      | blocked URL      | Tomcat 8 |

## 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<br>(Tomcat/Jetty) | Database<br>Backend | From<br>Fedora<br>Version | To<br>Fedora<br>Version | Number of<br>RDF<br>Resources | Number of<br>Binaries | Size of<br>Backup<br>(du -h .) | Success?<br>RC-1 | Success?<br>RC-2            | Success?<br>RC-3 | Notes                                                     |
|---------------------------------|----------|-----------------------------|---------------------|---------------------------|-------------------------|-------------------------------|-----------------------|--------------------------------|------------------|-----------------------------|------------------|-----------------------------------------------------------|
| <a href="#">Ben Pennell</a>     | Linux    | jetty                       | File-simple         | 5.1.0-RC2                 | 5.1.0-RC2               | 13061                         |                       | 3.7m                           |                  | <a href="#">blocked URL</a> |                  | Run on ubuntu xenial. Scripts difficult to use in centos7 |
| <a href="#">Danny Bernstein</a> | OSX      |                             |                     |                           |                         |                               |                       |                                |                  |                             |                  |                                                           |

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
```

| Tested by    | Success?<br>RC-1 | Success?<br>RC-2 | Success?<br>RC-3 | Notes |
|--------------|------------------|------------------|------------------|-------|
| Jared Whiklo | ✓                | ✓                | ✓                |       |
|              |                  |                  |                  |       |

## 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 reindexing to triplestore works

| Tested by    | Success?<br>RC-1 | Success?<br>RC-2 | Success?<br>RC-3 | Notes |
|--------------|------------------|------------------|------------------|-------|
| Jared Whiklo |                  | ✓                |                  |       |
|              |                  |                  |                  |       |

## Backwards Compatibility Tests

1. Start 5.0.0 one-click
2. Load [sample datasets](#) via `/fcr:restore`
3. Run [test scripts](#) on 5.0.0
4. Stop 5.0.0
5. Start RC one-click
6. Run [test scripts](#) on RC
7. ReStart RC
8. Run [test scripts](#) on RC

| Tested by       | Success?<br>RC-1 | Success?<br>RC-2 | Success?<br>RC-3 | Notes |
|-----------------|------------------|------------------|------------------|-------|
| Danny Bernstein |                  |                  | ✓                |       |
|                 |                  |                  |                  |       |

## Resources

[1] [Testing scripts](#)

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