

# Release Testing - 5.1.0

## Testing Blocker Tickets

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## External Projects

### Samvera

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

### Islandora

Project	Tested by	Success? RC-1	Success? RC-2	Success? RC-3	Notes
Islandora 8	<a href="#">Jared Whiklo</a> (RC-1) <a href="#">Daniel Lamb</a> (RC-2)	✓	✓		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? RC-1	Success? RC-2	Success? RC-3	Notes
fcrepo4	mvn clean install	linux	<a href="#">Yinlin Chen</a>	✓	✓	✓	
fcrepo4	mvn clean install	mac	<a href="#">Jared Whiklo</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? RC-1	Success? RC-2	Success? RC-3	Notes
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java -jar fcrepo-webapp-<version>-SNAPSHOT-jetty-console.jar	Linux	Yinlin Chen	✓	<input checked="" type="checkbox"/> Ben Pennell	✓	
java -jar fcrepo-webapp-<version>-SNAPSHOT-jetty-console.jar	Mac	Jared Whiklo	✓	✓ (Danny Bernstein)	✓	
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? RC-1	Success? RC-2	Success? RC-3	Notes
OS X	Jared Whiklo	✓	✓		
Linux (Ubuntu)	Danny Bernstein			✓	

## Database Tests

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

Database	Platform	Tested by	Success? RC-1	Success? RC-2	Success? RC-3	Notes
MySQL	Ubuntu	Yinlin Chen	✓	✓	✓	Tomcat 8
PostgreSQL	Ubuntu	Yinlin Chen	✓	✓	✓	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 (Tomcat /Jetty)	Database Backend	From Fedora Version	To Fedora Version	Number of RDF Resources	Number of Binaries	Size of Backup (du -h .)	Success? RC-1	Success? RC-2	Success? RC-3	Notes
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Ben Pennell	Linux	jetty	File-simple	5.1.0-RC2	5.1.0-RC2	13061		3.7m				Run on ubuntu xenial. Scripts difficult to use in centos7
Danny Bernstein	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? RC-1	Success? RC-2	Success? 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? RC-1	Success? RC-2	Success? 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? RC-1	Success? RC-2	Success? RC-3	Notes
Danny Bernstein				

## Resources

[1] [Testing scripts](#)

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