





Release Testing - 5.0.0

Testing Tickets






RC-1 Testing

-  [FGREPO-2934](#) - UI: "View Versions" link gives 404 if no version is created yet for a resource CLOSED
-  [FGREPO-2938](#) - remove fedora:writable triple? CLOSED
-  [FGREPO-2932](#) - 406 returned when Accept-Datetime header is present when GETting Memento CLOSED

Defer to 5.1




-  [FGREPO-2935](#) - Sections 3.1.2 and 3.1.3: Add Default Idp:membershipResource to Direct and Indirect Containers CLOSED
-  [FGREPO-2936](#) - Sections 3.1.2 and 3.1.3: Add Default Idp:hasMemberRelation to Direct and Indirect Containers CLOSED
-  [FGREPO-2937](#) - Section 3.1.3: Add Default Idp:insertedContentRelation Indirect Containers CLOSED

RC-2 Testing

-  [FGREPO-2964](#) - Shiro explodes if user does not have fedoraUser or fedoraAdmin role CLOSED
-  [FGREPO-2962](#) - Skip test of changing interaction models if not supported CLOSED
-  [FGREPO-2963](#) - fcrepo5 neither builds nor runs on Windows CLOSED
-  [FGREPO-2964](#) - PUT against existing resource and invalid interaction model should return 409 CLOSED
-  [FGREPO-2966](#) - Changing NonRdfSource to BasicContainer gives 204 CLOSED



External Projects

Samvera (instructions)

Project	Tested by	Success? RC-1	Success? RC-2	Success? RC-3	Notes
valkyrie	Esmé Cowles				Support merged into master branch

Islandora (testing ticket)

Project	Tested by	Success? RC-2	Success? RC-3	Notes
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CLAW	Jared Whiklo			<p>Discovered FCREPO-2961 with regards to authentication</p> <p>RC-3 works once https://github.com/Islandora-CLAW/Syn/pull/14 is merged.</p>
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API-X

Project	Tested by	Success? RC -2	S u c c e s s ? R C -3	Notes
fcrepo-api-x-integration				
fcrepo-api-x-demo (Docker)				

Testing Plan

```

git clone https://github.com/fcrepo4/fcrepo4
cd fcrepo4
git checkout fcrepo-5.0.0-RC-3










# or pull pre-built resources from https://github.com/fcrepo4/fcrepo4
/releases/tag/fcrepo-5.0.0-RC-2

```

Sanity Builds

Scripts

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

Project	Command	Platform	Tested By	RC 1	RC 2	RC 3	Notes
fcrepo4	mvn clean install	linux	Yinlin Chen				Build successful on Ubuntu Server 16.04 LTS (HVM)
			Andrew Woods				
			Randall Floyd				Build successful on Fedora Linux 27; openjdk version "1.8.0_191"; Maven 3.5.0 (Red Hat 3.5.0-6)
			Yinlin Chen				
fcrepo4	mvn clean install	mac	Yinlin Chen				Build successful
fcrepo4	mvn clean install	windows	Yinlin Chen				Build successful

Note (18 January 2018): The victims database warnings are due to the victi.ms site currently returning a 503 error. Jared Whiklo has reported this issue upstream: <https://github.com/victims/victims-web/issues/155>

API-Test Suite

1. Start Fedora with the following command

```
mvn jetty:run -Dfcrepo.external.content.allowed=fcrepo-http-api/src
/test/resources/allowed_external_paths.txt -Dfcrepo.auth.webac.
userAgent.baseUrl=http://example.com/ -pl fcrepo-webapp/
```





2. Run the API-Test suite with the following command

```
java -jar target/testsuite-1.0-SNAPSHOT-shaded.jar -c config-local.yml
```

1. Where "config-local.yml" is something like the following


```
default:
  rooturl: http://localhost:8080/rest/
  root-controller-user-webid: http://example.com/fedoraAdmin
  root-controller-user-name: fedoraAdmin
  root-controller-user-password: fedoraAdmin
  permissionless-user-webid: http://example.com/testuser
  permissionless-user-name: testuser
  permissionless-user-password: testpass
  broker-url: tcp://127.0.0.1:61616
  topic-name: fedora
  queue-name:
  implementation-name: Fedora
  implementation-version: 5.0.0-RC
tomcat:
  rooturl: http://localhost:8080/fcrepo/rest/
  root-controller-user-webid: http://example.com/fedoraAdmin
  root-controller-user-name: fedoraAdmin
  root-controller-user-password: secret3
  permissionless-user-webid: http://example.com/testuser
  permissionless-user-name: testuser
  permissionless-user-password: password1
  broker-url: tcp://127.0.0.1:61616
  topic-name: fedora
  queue-name:
  implementation-name: Fedora
  implementation-version: 5.0.0-RC
```

Platform	Test Suite Version	Tested by	Results RC-2 (#pass, fail,skip)	Results RC-3 (#pass, fail,skip)	Notes
Fedora Linux 27	f3dd201	Randall Floyd	Total tests run: 238, Failures: 12, Skips: 23	Total tests run: 238, Failures: 12, Skips: 23	
Ubuntu		Andrew Woods	Total tests run: 220, Failures: 13, Skips: 16		

Mac 10.14		Yinlin Chen	Total tests run: 238, Failures: 44, Skips: 16	 testsuite...port.h
				 testng-local.xr
				 config-local.yr
Mac OSX 10.13.6	a40ce88	Danny Bernstein	Total tests run: 238, Failures: 12, Skips: 23	 Fedora API Test

One-Click Run

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

Command	Platform	Tested By	RC-1	RC-2	RC-3	Notes
java -jar fcrepo-webapp-<version>-SNAPSHOT-jetty-console.jar	Linux	Andrew Woods				Ran one-click and successfully performed manual tests
java -jar fcrepo-webapp-<version>-	Fedora Linux 27	Randall Floyd				Built and ran one-click, successfully

SNAPSHOT-jetty-console.jar						performed manual tests
java -jar fcrepo-webapp-<version>-SNAPSHOT-jetty-console.jar	Mac	Yinlin Chen Danny Bernstein				Build and start One-Click run successfully
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-webapp**.

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

WebAC Tests

Use the following recipes to create WebAC-protected resources

Default ACL

```
# root container should be read-only by default
curl -i -u testuser:testpass -X PUT http://localhost:8080/rest/test-default
# expect 403

# create a resource with admin
curl -i -u fedoraAdmin:fedoraAdmin -X PUT http://localhost:8080/rest/test-default
# expect 201

# resources inheriting the default acl should be read-only
curl -i -u testuser:testpass -X GET http://localhost:8080/rest/test-default
# expect 200
curl -i -u testuser:testpass -X PUT http://localhost:8080/rest/test-default/child
# expect 403
```

Platform	Tested by	Success? RC-2	Success? RC-3	Notes
Mac	Danny Bernstein			
Fedora Linux 27	Randall Floyd			

Simple read-only




```
# create a resources with admin
curl -i -u fedoraAdmin:fedoraAdmin -X PUT http://localhost:8080/rest/test-read-only

curl -i -u fedoraAdmin:fedoraAdmin -X PUT http://localhost:8080/rest/test-read-only/child

# put read-only acl on parent
echo "
@prefix acl: <http://www.w3.org/ns/auth/acl#> .
@prefix foaf: <http://xmlns.com/foaf/0.1/> .

<#restricted> a acl:Authorization ;
               acl:agent 'testuser' ;
               acl:mode acl:Read;
               acl:default <http://localhost:8080/rest/test-read-only> ;
               acl:accessTo <http://localhost:8080/rest/test-read-only> .
" | curl -i -u fedoraAdmin:fedoraAdmin -d @- -X PUT -H "Content-Type: text/turtle" http://localhost:8080/rest/test-read-only/fcr:acl

# Verify expected access privileges on target and child - ie read but not write
curl -i -u testuser:testpass -X GET http://localhost:8080/rest/test-read-only/child
# expect 200
curl -i -u testuser:testpass -X POST http://localhost:8080/rest/test-read-only/child
# expect 403
```

Platform	Tested by	Success? RC-2	Success? RC-3	Notes
Mac	Danny Bernstein			
Fedora Linux 27	Randall Floyd			

Simple read-write

```

# create a resources with admin
curl -i -u fedoraAdmin:fedoraAdmin -X PUT http://localhost:8080/rest/test-
read-write

curl -i -u fedoraAdmin:fedoraAdmin -X PUT http://localhost:8080/rest/test-
read-write/child




# put read-only acl on parent
echo "
@prefix acl: <http://www.w3.org/ns/auth/acl#> .
@prefix foaf: <http://xmlns.com/foaf/0.1/> .

<#restricted> a acl:Authorization ;
              acl:agent 'testuser' ;
              acl:mode acl:Read, acl:Write;
              acl:default <http://localhost:8080/rest/test-read-write> ;
              acl:accessTo <http://localhost:8080/rest/test-read-write> .
" | curl -i -u fedoraAdmin:fedoraAdmin -d @- -X PUT -H "Content-Type: text
/turtle" http://localhost:8080/rest/test-read-write/fcr:acl

# Verify expected access privileges on target and child - ie read and write
curl -i -u testuser:testpass -X GET http://localhost:8080/rest/test-read-
write/child
# expect 200
curl -i -u testuser:testpass -X POST http://localhost:8080/rest/test-read-
write/child
# expect 201

```

1. Create resource to protect
2. Create ACL on protected resource (read/write)
3. Create child of protected resource
4. Verify expected access privileges on target and child

Platform	Tested by	Success? RC-2	Success? RC-3	Notes
Mac	Danny Bernstein			
Fedora Linux 27	Randall Floyd			

External Content

Create and verify all three modes of external content handling: proxy, redirect, copy

```

#Proxy
curl -i -H"Link: <file:///local/file/storage/photo.png>; rel=\"
http://fedora.info/definitions/fcrepo#ExternalContent\"; handling=\"
proxy\"; type=\"image/png\"" -XPUT -ufedoraAdmin:fedoraAdmin

```

```
http://localhost:8080/rest/test_proxy_local_file
```

```
#verify that the binary is returned.
```

```
curl -i -u fedoraAdmin:fedoraAdmin -XGET -ufedoraAdmin:fedoraAdmin  
http://localhost:8080/rest/test_proxy_local_file
```

```
#remove the file one disk, repeat the previous command and verify that an  
error code is returned.
```

```
#Redirect
```

```
curl -i -H"Link: <https://duraspace.org/wp-content/themes/duraspace/assets  
/images/fedora/fedora-logo-black.png>; rel=\"http://fedora.info/definitions  
/fcrepo#ExternalContent\"; handling=\"redirect\"; type=\"image/png\"" -  
XPUT -ufedoraAdmin:fedoraAdmin http://localhost:8080/rest  
/test_redirect_remote_file
```

```
#Get the file and verify a 307 is returned
```


```
curl -i -ufedoraAdmin:fedoraAdmin http://localhost:8080/rest  
/test_redirect_remote_file
```

```
#Copy
```

```
curl -i -H"Link: <https://duraspace.org/wp-content/themes/duraspace/assets  
/images/fedora/fedora-logo-black.png>; rel=\"http://fedora.info/definitions  
/fcrepo#ExternalContent\"; handling=\"copy\"; type=\"image/png\"" -XPUT -  
ufedoraAdmin:fedoraAdmin http://localhost:8080/rest/test_copy_remote_file
```

```
#verify copied file returns 200.
```

```
curl -i -ufedoraAdmin:fedoraAdmin http://localhost:8080/rest  
/test_copy_remote_file
```

Handling (proxy,redirect,copy)	Platform	Tested by	Success? RC-2	Success? RC-3	Notes
proxy, redirect, copy	Mac	Danny Bernstein			

Database Tests

	Linux	Tomcat	Postgres								
	Linux	Tomcat	Mysql								
	Linux	Tomcat	Mysql 5.6								
	Linux	Tomcat	Postgres								

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 RC2?	Success? RC-3	Notes
FEDORA_AUTH=true				

Manual Tests

Same as above, plus:

(for reference: https://docs.google.com/presentation/d/1aU-qRVmU0IB18ywepk2AGYEmRe-HflwhUaofHgathGQ/edit#slide=id.g11caa1fd99_0_0)

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

```
vagrant ssh
sudo service tomcat7 stop
sudo rm -rf /etc/fuseki/databases/test_data/*
sudo service tomcat7 start
curl -XPOST localhost:9080/reindexing/ -H"Content-Type: application/json" -d '["activemq:queue:triplestore.reindex"]'
```

~~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 RC2	Success? RC-3	Notes

Resources

[1] Testing scripts

[2] Fedora 4 Release Test Suite