

Release Testing - 4.7.5

Testing Tickets

- RC-1
 - blocker -
 - non-blocker -
 - non-blocker - Unable to locate Jira server for this macro. It may be due to Application Link configuration.
- RC-2
 - blocker - Unable to locate Jira server for this macro. It may be due to Application Link configuration.

External Projects

Hydra (instructions)

Project	Tested by	Success? RC-1	Success RC-2	Notes
ActiveFedora	Esmé Cowles	blocked URL		
	Stuart Kenny		blocked URL	
Hyrax	Esmé Cowles	blocked URL		
Sufia	Jennifer Smith	✓		Tested 7.3-stable branch
Valkyrie	Esmé Cowles	blocked URL		
	Stuart Kenny		blocked URL	
Avalon 6.0				

Islandora

Project	Tested by	Success? RC-1	Success? RC-2	Notes
CLAW	Jared Whiklo	✓	✓	

API-X

Project	Tested by	Success? RC-1	Success? RC-2	Notes
fcrepo-api-x-integration	Aaron Birkland		✓	
fcrepo-api-x-demo (Docker)			✓	

Testing Plan

```
git clone https://github.com/fcrepo4/fcrepo4
cd fcrepo4
git checkout 4.7.5-RC
```

Sanity Builds

Scripts

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

Project	Command	Platform	Tested By	RC 1	RC 2	Notes
fcrepo4	mvn clean install	linux	Andrew Woods	✓	✓ Jar ed Whiklo	
fcrepo4	mvn clean install	mac	Joshua Westgard Danny Bernstein (rc-2)	✓	✓	Frequent warning: "Unable to update victims database! Your CVE records might be out of date."
fcrepo4	mvn clean install	windows	Ben Pennell Aaron Birkland	✗ ✓	✓	I wasn't able to perform a sanity build in Windows 10 due to some integration tests in fcrepo-kernel-modesha (f them were flapping). Un able to locate Jira server for this macro. It may be due to Application Link configuration. Danny Bernstein: No, apparently this has been an ongoing issue. Apparently windows 10 on hyper-v works, but is failing/flapping on direct windows install. Aaron Birkland and Yinlin Chen worked on resolving this a while back but did not crack it.
fcrepo-module-auth-rbac	mvn clean install	linux	Andrew Woods	✓	✓ Jar ed Whiklo	
fcrepo-module-auth-rbac	mvn clean install	mac	Peter Eichman Danny Bernstein(rc-2)	blocked URL	✓	Frequent warning: "Unable to update victims database! Your CVE records might be out of date."
fcrepo-module-auth-rbac	mvn clean install	windows	Aaron Birkland	✓	✓	
fcrepo-module-auth-xacml	mvn clean install	mac	Peter Eichman Danny Bernstein (rc2)	???	✓	No 4.7.5-RC branch or tag
fcrepo-module-auth-xacml	mvn clean install	windows				
fcrepo-module-auth-webac	mvn clean install	linux	Andrew Woods	✓	✓ Jar ed Whiklo	
fcrepo-module-auth-webac	mvn clean install	mac	Peter Eichman Danny Bernstein (rc2)	blocked URL	✓	Frequent warning: "Unable to update victims database! Your CVE records might be out of date."
fcrepo-module-auth-webac	mvn clean install	windows	Aaron Birkland	✓	✓	
fcrepo-mint	mvn clean install	linux	Andrew Woods	✓	✓ Jar ed Whiklo	
fcrepo-mint	mvn clean install	mac	Peter Eichman Danny Bernstein (rc-2)	blocked URL	✓	Frequent warning: "Unable to update victims database! Your CVE records might be out of date."
fcrepo-mint	mvn clean install	windows	Aaron Birkland	✓	✓	
fcrepo-audit	mvn clean install	linux	Andrew Woods	✓	✓ Jar ed Whiklo	
fcrepo-audit	mvn clean install	mac	Peter Eichman Danny Bernstein (rc-2)	blocked URL	✓	Frequent warning: "Unable to update victims database! Your CVE records might be out of date."
fcrepo-audit	mvn clean install	windows	Aaron Birkland	✓	✓	
fcrepo-webapp-plus	mvn clean install	linux	Andrew Woods	✓	✓ Jar ed Whiklo	
fcrepo-webapp-plus	mvn clean install	mac	Peter Eichman Danny Bernstein (rc-2)	blocked URL	✓	Frequent warning: "Unable to update victims database! Your CVE records might be out of date."
fcrepo-webapp-plus	mvn clean install	windows	Aaron Birkland	✓	✓	
fcrepo-webapp-plus	mvn clean install -Pwebac	linux	Andrew Woods	✓	✓ Jar ed Whiklo	

MySQL5.6	linux	Kevin Ford	blocked URL	blocked URL	Tests were performed against fcrepo-webapp-4.7.5-RC not fcrepo-webapp- plus -4.7.5-RC.
PostgreSQL	linux	Kevin Ford	blocked URL	blocked URL	Tests were performed against fcrepo-webapp- plus -4.7.5-RC.
MySQL5.6	linux	Kevin Ford	blocked URL	blocked URL	Tests were performed against fcrepo-webapp- plus -4.7.5-RC.

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 RC1?	Success RC2?	Notes
	Linux	Jetty	File-simple	4.7.5	4.7.5		100				
Kevin Ford	Linux	Tomcat	Postgres	4.7.1	4.7.5-RC	6400	6400	6.7 G	blocked URL	blocked URL	Performed a GET test on all resources in 4.7.5 RC1 before fcr:restore, thereby mimicking an 'in place upgrade.' All succeeded. RC2 test used backup of 471 from RC1 test.
Kevin Ford	Linux	Tomcat	Postgres	4.7.3	4.7.5-RC	6400	6400	6.7 G	blocked URL	blocked URL	Performed a GET test on all resources in 4.7.5 RC1 before fcr:restore, thereby mimicking an 'in place upgrade.' All succeeded. RC2 test used backup of 473 from RC1 test.
Kevin Ford	Linux	Tomcat	Postgres	4.7.4	4.7.5-RC	6400	6400	6.7 G	blocked URL	blocked URL	Performed a GET test on all resources in 4.7.5 RC1 before fcr:restore, thereby mimicking an 'in place upgrade.' All succeeded. RC2 test used backup of 474 from RC1 test.
Michael Durbin	Linux	Tomcat	Mysql	4.7.4	4.7.5-RC-1	79456	11969	96G			Performed an fcr:export from 4.7.4. Performed an fcr:import to 4.7.5-RC-1. Performed a reindex using camel (to walk all RDF resources). I did not test every binary.
Kevin Ford	Linux	Tomcat	Mysql 5.6	4.7.5	4.7.5-RC-1	6400	6400	6.7 G	blocked URL	blocked URL	Performed a GET test on all resources in 4.7.5 RC1 before fcr:restore, as verification. All succeeded. For RC2 test, the back up that was restored in this test was actually created from a postgres backend repo.
Kevin Ford	Linux	Tomcat	Postgres	4.7.5	4.7.5-RC	6400	6400	6.7 G	blocked URL	blocked URL	Performed a GET test on all resources in 4.7.5 RC2 before fcr:restore, as verification. All succeeded. For RC1 test, the back up that was restored in this test was actually created from a mysql backend repo.

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?	Notes
FEDORA_AUTH=true FEDORA_AUDIT=false	Bethany Seeger	blocked URL	blocked URL auth working blocked URL audit disabled blocked URL triplestore is staying in sync blocked URL solr blocked URL triplestore reindexing
FEDORA_AUTH=false FEDORA_AUDIT=false	Danny Bernstein	✓	✓ auth (disabled as expected) ✓ audit disabled ✓ triplestore is staying in sync ✓ solr ✓ triplestore reindexing
FEDORA_AUTH=true FEDORA_AUDIT=true	Danny Bernstein	✓	✓ Triple Store ✓ Auth ✓ Reindexing ✓ Solr (after a "vagrant box update" and "vagrant destroy" it seems to work now). ⚠ However, if I add an RDF triple to a node (in my case <=dc:title "blah">, I'm am not seeing the change reflected in solr. The triple is however present in fuseki. Is this expected behavior? Is are only some triples propagated to solr? The above turns out not to be an issue. Updates to solr are collected and then execute in batch operations. I just needed to wait a few seconds. blocked URL Audit events: with this caveat ⚠ I am seeing this stacktrace in the karaf logs upon adding a resource. Not sure if it is a problem. Audit events are being logged properly as far as I can tell in /audit and fuseki is also receiving the audit triples. sudo tail -f /opt/karaf/data/log/karaf.log: Stacktrace ----- org.fcrepo.client.FcrepoOperationFailedException: HTTP operation failed invoking info:fedora/audit with statusCode: -1 and message: URI does not specify a valid host name: info:fedora/audit at org.fcrepo.client.FcrepoClient.executeRequest(FcrepoClient.java:218)[152:org.fcrepo.client.fcrepo-java-client:0.2.1] at org.fcrepo.client.FcrepoClient.executeRequest(FcrepoClient.java:204)[152:org.fcrepo.client.fcrepo-java-client:0.2.1] at org.fcrepo.client.RequestBuilder.perform(RequestBuilder.java:77)[152:org.fcrepo.client.fcrepo-java-client:0.2.1] at org.fcrepo.camel.FcrepoProducer.getMetadataUri(FcrepoProducer.java:251)[201:org.fcrepo.camel.fcrepo-camel:4.5.0] at org.fcrepo.camel.FcrepoProducer.getUri(FcrepoProducer.java:225)[201:org.fcrepo.camel.fcrepo-camel:4.5.0] at org.fcrepo.camel.FcrepoProducer.doRequest(FcrepoProducer.java:194)[201:org.fcrepo.camel.fcrepo-camel:4.5.0] at org.fcrepo.camel.FcrepoProducer.process(FcrepoProducer.java:156)[201:org.fcrepo.camel.fcrepo-camel:4.5.0] at org.apache.camel.util.AsyncProcessorConverterHelper\$ProcessorToAsyncProcessorBridge.process(AsyncProcessorConverterHelper.java:61)[58:org.apache.camel-core:2.18.0] at org.apache.camel.processor.SendProcessor.process(SendProcessor.java:145)[58:org.apache.camel-core:2.18.0] at org.apache.camel.management.InstrumentationProcessor.process(InstrumentationProcessor.java:77)[i I confirmed that this behavior exists in in the 4.7.4
FEDORA_AUTH=false FEDORA_AUDIT=true	Danny Bernstein	✓	✓

Manual Tests

Same as above, plus:

(for reference: https://docs.google.com/presentation/d/1aU-qRVmU0lB18ywepk2AGYEmRe-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 [4.7.4 one-click](#)
2. Load [sample datasets](#) via `/fcr:restore`
3. Run [test scripts](#) on 4.7.4
4. Stop 4.7.4
5. Start RC one-click
6. Run [test scripts](#) on RC
7. ReStart RC
8. Run [test scripts](#) on RC

Tested by	Success RC1	Success RC2	Notes
Kevin Ford	blocked URL	blocked URL	Did not run camel_toolbox_tests or authz_tests.
Danny Bernstein			

Resources

[1] [Testing scripts](#)

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