

Import - Export Testing Recipes

The basic recipe for testing the [import/export utility](#) and [import/export verification tool](#) follows:

1. Start up an empty Fedora
2. Load or `/fcr:restore` a dataset
3. Export the all or some of the dataset with the import/export utility
4. Verify the export with the verification tool
5. Start up a new Fedora (same or different port and context)
6. Import the exported resources with the import/export utility
7. Verify the import with the verification tool

Variations

The above recipe can be varied in the following ways:

1. For #2: In addition to custom, scripted ingest datasets, the "[additional_datasets](#)" are available for `/fcr:restore`
2. For #3: All of the configuration options should be tested
 - a. With and without binaries (-b)
 - b. Using `default` and `aptrust` bagit profiles
 - c. Using inbound references (-i)
 - d. Using membership predicates (-p)
 - e. Overwriting tombstones (-t)
 - f. With authorization (-u)
 - g. Exporting external content (-x)
3. For #5: Start up the destination Fedora on a different port and with a different context, [example](#)
4. For #6: Use both the command line options and the auto-generated config file

Tests

Tester	Fedora Version	Import /Export Version	Verify Version	Dataset (detail below if custom)	Export Options	Export Verify Options	Source Fedora port & context	Destination Fedora port & context	Import Options	Import Verify Options	Success?	Notes
Jim Coble	4.7.2	0.1.1-SNAPSHOT-d4780ca2	master branch at 839cb8b	Small portion of production-like data loaded locally via Hydra framework	-c (config file contains -m export, -b, -p ldp#contains, -r, -d, rdfLang text /turtle)	none except config file	8984/rest	8984/rest	-c (same config file as used for export except for -m import)	none except config file	mixed – no errors on export or import - export verify successful, import verify mismatches (expected due to server-managed triples)	Exported entire repo; wiped repo; imported entire repo

Longshou Situ	4.7.2	1.1-SNAPSHOT-d4780ca2	master branch at commit bfd6fa1	plant patent (/fcr.restored from plants.tar.gz)	Command-line: -b, -g [default apitrust], -i, -p, -x	-l, -g, -v	8080/fcrepo/rest	8686/f4/rest	Command-line: -b, -g [default apitrust], -i, -p, -t	-l, -g, -v	mixed – import/export works as expected except 403 status found with inbound reference import and limitation on import/export verify	<p>The plant patent dataset restored from plants.tar.gz has resource reference</p> <p>(http://localhost:8080/fcrepo/rest/initialize)</p> <p>in three of the records under /audit (for example, http://localhost:8080/fcrepo/rest/audit/c0/c8/af/98/c0c8af98-72a3-4ce0-96f0-aaf9ac2aa161). When exporting with binary excluded, those three records with non-existing resource reference won't be exported.</p> <p>nacro. It</p> <p>configuration.</p> <p>nacro. It</p> <p>configuration.</p> <p>nacro. It</p> <p>configuration.</p> <p>nacro. It</p> <p>configuration.</p> <p>nacro. It</p> <p>configuration.</p>
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Jim Coble	4.7.2	0.1.1-SNAPSHOT-d4780ca2	master branch at 839cb8b	Small portion of production-like data loaded locally via Hydra mframework	-c (config file contains -m export, -b, -p ldp#contains, #isMemberOfCollection, -i -r, -d, rdfLang text/turtle)	none except config file	8984/rest	8984/rest	-c (same config file as used for export except for -m import)		✗	<p>configuration.</p> <p>import was successful</p>
Danny Bernstein	4.8.0-SNAPSHOT (a07a1a46)	0.1.1-SNAPSHOT-5b94e1	839cb	plant patent (/cr.restored from plants.tar.gz)	-a -r	non except the file	8686/f4/rest	8687/f4/rest	-m import -a -r http://localhost:8687/f4/rest -M http://localhost:8686/f4/rest, http://localhost:8687/f4/rest		mixed ✗	<p>export was successful, import failed,</p> <p>export verify had a bunch of mismatch errors: (successes = 508, failures = 100)</p> <p>many errors on import due to messages like this: "Could not persist triple containing predicate http://fedora.info/definitions/v4/repository#created to node /fe80be3e-7256-4c00-8b76-db747d433bb6"</p> <p>import verify did not apply since import failed.</p>
Danny Bernstein	4.8.0-SNAPSHOT (a07a1a46)	0.1.1-SNAPSHOT-7f0d7	3cb123	repo with one container and one photo within it.	-a -b -r http://localhost:8686/f4/rest -d		8686/f4/rest	8687/f4/rest	-a -b -r http://localhost:8687/f4/rest -d -M http://localhost:8686/f4/rest, http://localhost:8687/f4/rest		mixed ✗	<p>export succeed.</p> <p>verification of export succeeded.</p> <p>import failed</p> <p>(import verification N/A)</p>
Jim Coble	4.8.0-SNAPSHOT (a07a1a46)	0.1.1-SNAPSHOT-0e42348f	master branch at 08dcdcd	Small portion of production-like data loaded locally via Hydra mframework	-c (config file contains -m export, -b, -p ldp#contains, -r, -d, rdfLang text/turtle -i false)	none except config file	8984/rest	8984/rest	-c (same config file as used for export except for -m import)		mixed – no errors on export or import - export verify successful, import verify starts to run and immediately exits with no results	<p>Exported entire repo; wiped repo; imported entire repo</p> <p>Manually compared before and after versions of a resource ... no differences noted (i.e., fedora:created and fedora:lastModified timestamps were the same)</p>
Jim Coble	4.8.0-SNAPSHOT (a07a1a46)	0.1.1-SNAPSHOT-0e42348f		Small portion of production-like data loaded locally via Hydra mframework	-c (config file contains -m export, -b, -p ldp#contains, #isMemberOfCollection, -i -r, -d, rdfLang text/turtle)		8984/rest	8984/rest	-c (config file contains -m import, -b, -r rest, -d, rdfLang text/turtle)		✗	<p>configuration.</p> <p>macro. It</p> <p>import was successful</p>
Jim Coble	4.8.0-SNAPSHOT (a07a1a46)	0.1.1-SNAPSHOT-0e42348f	master branch at 08dcdcd	Small portion of production-like data loaded locally via Hydra mframework	-c (config file contains -m export, -b, -p ldp#contains, -r, -d, rdfLang text/turtle -i false)	none except config file	8984/rest	8984/rest	-c (config file contains -m import, -b, -p ldp#contains, -r resource_url, -d, rdfLang text/turtle)	n/a	mixed – except that imported resource (a container) had its lastModified date set to import date (because child was added?)	<p>exported entire repo; deleted one resource (a container) and tombstone; imported that one resource</p>