

Sprint 3 Feedback - Kieran Etienne

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Series A:

Test Environment

Ubuntu 16.10

Initialization

1. Start Fedora [4.7.1 one-click](#) at port=8081 and context=fcrepo1

```
java -Dfcrepo.dynamic.jms.port=61616 -Dfcrepo.dynamic.stomp.port=61613 -jar ../fcrepo-webapp-4.7.1-jetty-console.jar --headless --port 8081 --contextPath /fcrepo1
```

2. Start Fedora [4.7.1 one-click](#) at port=8082 and context=fcrepo2

```
java -Dfcrepo.dynamic.jms.port=61617 -Dfcrepo.dynamic.stomp.port=61614 -jar ../fcrepo-webapp-4.7.1-jetty-console.jar --headless --port 8082 --contextPath /fcrepo2
```

3. Clone the [import/export tool](#), checkout branch from appropriate tag and build via maven.

Test 1 - The "ingest.sh" dummy data (with binaries)

1. Load *ingest.sh* into *fcrepo1* context.
2. Export data from *fcrepo1* context.

```
java -jar fcrepo-import-export-0.1.0.jar --mode export --resource http://localhost:8081/fcrepo1/rest/ --dir /home/pke3/Projects/fcrepo1/export --binaries
```

3. Import data into *fcrepo2* from *fcrepo1* export.

```
java -jar fcrepo-import-export-0.1.0.jar --mode import --resource http://localhost:8082/fcrepo2/rest/ --dir /home/pke3/Projects/fcrepo1/export --binaries
```

4. Received:

```
INFO 12:16:36.936 (ArgParser) Configuration file exists, new file will NOT be created: /tmp/importexport.yml
INFO 12:16:36.941 (Importer) Running importer...
```

But <http://localhost:8082/fcrepo2/rest/> shows no child resources. Checking the `importexport_audit_[datetime].log` shows:

```
2017-01-30 12:16:37,246 Finished import... 0 resources imported
```

After some questioning of my sanity, I found that A. Woods' notes also seemed to show trouble at this stage. I attempted further log details as follows:

```
java -Dfcrepo.log.importexport=TRACE -jar target/fcrepo-import-export-0.1.0.jar --mode import --resource http://localhost:8082/fcrepo2/rest/ --dir /home/pke3/Projects/fcrepo1/export --binaries
```

And received the following in the log:

```
DEBUG 11:00:01.877 (ArgParser) Command line arguments weren't valid for specifying a config file.
INFO 11:00:01.944 (ArgParser) Configuration file exists, new file will NOT be created: /tmp/importexport.yml
INFO 11:00:01.947 (Importer) Running importer...
DEBUG 11:00:01.948 (Importer) No container exists in the metadata directory home/pke3/Projects/fcrepo1/export/fcrepo2/rest.ttl for the requested resource http://localhost:8082/fcrepo2/rest, importing all contained resources instead.
```

Test 1 Conclusions

1. Was able to export, but unable to import (*ingest.sh*) dummy data (with binaries).

Test 2 - The "ingest.sh" dummy data (without binaries)

1. Load *ingest.sh* into *fcrepo1* context.
2. Export data from *fcrepo1* context.

```
java -jar target/fcrepo-import-export-0.1.0.jar --mode export --resource http://localhost:8081/fcrepo1/rest/ --dir /home/pke3/Projects/fcrepo1/export
```

3. Import data into *fcrepo2* from *fcrepo1* export.

```
java -jar target/fcrepo-import-export-0.1.0.jar --mode import --resource http://localhost:8082/fcrepo2/rest/ --dir /home/pke3/Projects/fcrepo1/export
```

4. Received:

```
INFO 12:16:36.936 (ArgParser) Configuration file exists, new file will NOT be created: /tmp/importexport.yml
INFO 12:16:36.941 (Importer) Running importer...
```

But <http://localhost:8082/fcrepo2/rest/> again shows no child resources. Checking the `importexport_audit_[datetime].log` shows:

```
2017-01-30 12:16:37,246 Finished import... 0 resources imported
```

Debug logging via:

```
java -Dfcrepo.log.importexport=TRACE -jar target/fcrepo-import-export-0.1.0.jar --mode import --resource http://localhost:8082/fcrepo2/rest/ --dir /home/pke3/Projects/fcrepo1/export
```

Results in:

```
DEBUG 11:17:54.059 (ArgParser) Command line arguments weren't valid for specifying a config file.
INFO 11:17:54.155 (ArgParser) Configuration file exists, new file will NOT be created: /tmp/importexport.
yml
INFO 11:17:54.159 (Importer) Running importer...
DEBUG 11:17:54.159 (Importer) No container exists in the metadata directory /home/pke3/Projects/fcrepo1
/export/fcrepo2/rest.ttl for the requested resource http://localhost:8082/fcrepo2/rest, importing all
contained resources instead.
```

Test 2 Conclusions

1. Was able to export, but unable to import (ingest.sh) dummy data (without binaries).

Test 3 - Hydra data (with binaries)

1. Load hydra-dataset (from fcrepo-sample-dataset) into fcrepo1 context.

```
curl -X POST -d "/home/pke3/Projects/fcrepo-sample-dataset/additional_datasets/hydra/hydra-dataset"
"http://localhost:8080/rest/fcr:restore"
```

2. Export data from fcrepo1 context.

```
java -jar target/fcrepo-import-export-0.1.0.jar --mode export --resource http://localhost:8081/fcrepo1
/rest/ --dir /home/pke3/Projects/fcrepo1/export --binaries
```

3. Import data into fcrepo2 from fcrepo1 export.

```
java -jar target/fcrepo-import-export-0.1.0.jar --mode import --resource http://localhost:8082/fcrepo2
/rest/ --dir /home/pke3/Projects/fcrepo1/export --binaries
```

4. Received:

```
INFO 12:16:36.936 (ArgParser) Configuration file exists, new file will NOT be created: /tmp/importexport.
yml
INFO 12:16:36.941 (Importer) Running importer...
```

But <http://localhost:8082/fcrepo2/rest/> with this set as well shows no child resources. Checking the importexport_audit_[datetime].log shows:

```
2017-01-30 12:16:37,246 Finished import... 0 resources imported
```

Debug logging via:

```
java -Dfcrepo.log.importexport=TRACE -jar target/fcrepo-import-export-0.1.0.jar --mode import --resource
http://localhost:8082/fcrepo2/rest/ --dir /home/pke3/Projects/fcrepo1/export
```

Results in:

```
DEBUG 11:17:54.059 (ArgParser) Command line arguments weren't valid for specifying a config file.
INFO 11:17:54.155 (ArgParser) Configuration file exists, new file will NOT be created: /tmp/importexport.
yml
INFO 11:17:54.159 (Importer) Running importer...
DEBUG 11:17:54.159 (Importer) No container exists in the metadata directory /home/pke3/Projects/fcrepo1
/export/fcrepo2/rest.ttl for the requested resource http://localhost:8082/fcrepo2/rest, importing all
contained resources instead.
```

Test 3 Conclusions

1. Was able to export, but unable to import hydra data (with binaries).

Test 4 - Hydra data (without binaries)

1. Same results as tests 1, 2, and 3.

Series B:

This series relates only to attempting to get the initial fcrepo-sample-dataset(s) restored into a fedora instance.

Test Environment

CentOS 7.1611

Initialization

1. Install tomcat

```
yum install tomcat tomcat-webapps tomcat-admin-webapps
```

2. Download [fcrepo-webapp-4.7.1.war](#), place in /usr/share/tomcat/webapps/ directory.
3. Clone the [import/export tool](#), checkout branch from appropriate tag and build via maven.
4. Clone the [fcrepo-sample-dataset](#) repo.
5. Use maven to build the target.

```
mvn clean install
```

6. Run the restore for the sample dataset.

```
mvn -Dfcrepo.url=http://localhost:8080/fcrepo/rest/ exec:java
```

7. Results:

```

[INFO] Scanning for projects...
[INFO]
[INFO] -----
[INFO] Building fcrepo-sample-dataset 4.1.2-SNAPSHOT
[INFO] -----
[INFO]
[INFO] >>> exec-maven-plugin:1.2.1:java (default-cli) > validate @ fcrepo-sample-dataset >>>
[INFO]
[INFO] <<< exec-maven-plugin:1.2.1:java (default-cli) < validate @ fcrepo-sample-dataset <<<
[INFO]
[INFO] --- exec-maven-plugin:1.2.1:java (default-cli) @ fcrepo-sample-dataset ---
INFO 12:08:28.803 (FedoraDatasetImport) fcrepoUrl:http://localhost:8081/fcrepo1/rest/
INFO 12:08:28.806 (FedoraDatasetImport) Dataset dir:/home/pke3/Projects/fcrepo-sample-dataset/target
/classes/data
INFO 12:08:28.807 (FedoraDatasetImport) fcrepo.authUser: null
INFO 12:08:28.807 (FedoraDatasetImport) fcrepo.authPassword: null
INFO 12:08:29.143 (FedoraDatasetImport) Failed to imported data file: /home/pke3/Projects/fcrepo-sample-
dataset/target/classes/data/theOne-jcr.xml
INFO 12:08:29.152 (FedoraDatasetImport) Failed to imported data file: /home/pke3/Projects/fcrepo-sample-
dataset/target/classes/data/cityOfHeavenlyFire-jcr.xml
INFO 12:08:29.165 (FedoraDatasetImport) Failed to imported data file: /home/pke3/Projects/fcrepo-sample-
dataset/target/classes/data/cress-jcr.xml
INFO 12:08:29.178 (FedoraDatasetImport) Failed to imported data file: /home/pke3/Projects/fcrepo-sample-
dataset/target/classes/data/ff-fcr.xml
INFO 12:08:29.184 (FedoraDatasetImport) Failed to imported data file: /home/pke3/Projects/fcrepo-sample-
dataset/target/classes/data/sample-record.xml
INFO 12:08:29.205 (FedoraDatasetImport) Failed to imported data file: /home/pke3/Projects/fcrepo-sample-
dataset/target/classes/data/theBloodOfOlympus-jcr.xml
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 1.460 s
[INFO] Finished at: 2017-01-30T12:08:29-05:00
[INFO] Final Memory: 12M/290M
[INFO] -----

```

Looking at the FedoraDatasetImport.java file line 76 showed the original source of the error message. The previous boolean was evaluating to false. Guessed (no java debugging environment setup at the moment) that even though no authentication was required for the servlet / servlet container, that perhaps the java class required a username / password anyway. Attempted to run the restore again with dummy username / password.

```

mvn -Dfcrepo.authUser=blather -Dfcrepo.authPassword=skite -Dfcrepo.url=http://localhost:8080/fcrepo
/rest/ exec:java

```

Resulted in:

```

[INFO] Scanning for projects...
[INFO] -----
[INFO] Building fcrepo-sample-dataset 4.1.2-SNAPSHOT
[INFO] -----
[INFO] >>> exec-maven-plugin:1.2.1:java (default-cli) > validate @ fcrepo-sample-dataset >>>
[INFO] <<< exec-maven-plugin:1.2.1:java (default-cli) < validate @ fcrepo-sample-dataset <<<
[INFO] --- exec-maven-plugin:1.2.1:java (default-cli) @ fcrepo-sample-dataset ---
INFO 12:08:28.803 (FedoraDatasetImport) fcrepoUrl:http://localhost:8081/fcrepo1/rest/
INFO 12:08:28.806 (FedoraDatasetImport) Dataset dir:/home/pke3/Projects/fcrepo-sample-dataset/target
/classes/data
INFO 12:08:28.807 (FedoraDatasetImport) fcrepo.authUser: blather
INFO 12:08:28.807 (FedoraDatasetImport) fcrepo.authPassword: skite
INFO 12:08:29.143 (FedoraDatasetImport) Failed to imported data file: /home/pke3/Projects/fcrepo-sample-
dataset/target/classes/data/theOne-jcr.xml
INFO 12:08:29.152 (FedoraDatasetImport) Failed to imported data file: /home/pke3/Projects/fcrepo-sample-
dataset/target/classes/data/cityOfHeavenlyFire-jcr.xml
INFO 12:08:29.165 (FedoraDatasetImport) Failed to imported data file: /home/pke3/Projects/fcrepo-sample-
dataset/target/classes/data/cress-jcr.xml
INFO 12:08:29.178 (FedoraDatasetImport) Failed to imported data file: /home/pke3/Projects/fcrepo-sample-
dataset/target/classes/data/ff-fcr.xml
INFO 12:08:29.184 (FedoraDatasetImport) Failed to imported data file: /home/pke3/Projects/fcrepo-sample-
dataset/target/classes/data/sample-record.xml
INFO 12:08:29.205 (FedoraDatasetImport) Failed to imported data file: /home/pke3/Projects/fcrepo-sample-
dataset/target/classes/data/theBloodOfOlympus-jcr.xml
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 1.460 s
[INFO] Finished at: 2017-01-30T12:08:29-05:00
[INFO] Final Memory: 12M/290M
[INFO] -----

```

Worked through the [Authentication & Authorization](#) document to enable security, then attempted again with appropriate credentials but resulted in the same behavior. Performing the same setup using jetty, I discovered the following log entries:

```

INFO 22:08:28.964 (FedoraLdp) PUT resource '/fedora:system/fedora:transform/fedora:ldpath/default/nt:
base'
ERROR 22:08:29.141 (FedoraInvalidNamespaceExceptionMapper) NamespaceExceptionMapper caught an exception:
Prefix fcr has not been registered
ERROR 22:08:29.148 (FedoraInvalidNamespaceExceptionMapper) NamespaceExceptionMapper caught an exception:
Prefix fcr has not been registered
ERROR 22:08:29.163 (FedoraInvalidNamespaceExceptionMapper) NamespaceExceptionMapper caught an exception:
Prefix fcr has not been registered
ERROR 22:08:29.177 (FedoraInvalidNamespaceExceptionMapper) NamespaceExceptionMapper caught an exception:
Prefix fcr has not been registered
ERROR 22:08:29.182 (FedoraInvalidNamespaceExceptionMapper) NamespaceExceptionMapper caught an exception:
Prefix fcr has not been registered
ERROR 22:08:29.200 (FedoraInvalidNamespaceExceptionMapper) NamespaceExceptionMapper caught an exception:
Prefix fcr has not been registered

```

Search engine results lead me to FCREPO-1788 and related info. It seems related, but I was unable to troubleshoot any further than this.