

How to setup a Fedora cluster

Overview

The cluster setup is based on the Infinispan cluster configuration, via JGroups.

Steps for clustering on the same machine:

1. Build fcrepo-webapp.
2. Copy fcrepo-webapp/target/fcrepo-webapp.war to a second location, we shall call this fcrepo-webapp2.
3. Configure a separate activeMQ port in webapp2:
 - a. Under fcrepo-webapp2/src/main/resource/config/activemq.xml
 - b. Under transport, change the port to a nearby number.
4. Pick a different web port for the separate fcrepo-webapp2, as in the exported jetty.port below.
5. In webapp1, execute:

```
export MAVEN_OPTS="-Djgroups.tcp.address=127.0.0.1 -Djgroups.tcp.port=7800 -Djgroups.tcpping.initial_hosts=127.0.0.1[7800],127.0.0.1[7801] -Djava.net.preferIPv4Stack=true"
```

```
mvn -Djetty.port=8888 jetty:run
```

6. In webapp2, execute:

```
export MAVEN_OPTS="-Djgroups.tcp.address=127.0.0.1 -Djgroups.tcp.port=7801 -Djgroups.tcpping.initial_hosts=127.0.0.1[7800],127.0.0.1[7801] -Djava.net.preferIPv4Stack=true"
```

```
mvn -Djetty.port=8889 jetty:run
```

7. Look for the message "Received new cluster view"

Steps for clustering with others:

1. In fcrepo-webapp:

```
export MAVEN_OPTS="-Djgroups.tcp.address=<local-ip-address> -Djgroups.tcpping.initial_hosts='<local-ip-address>[7800],<remote-ip-address-0>[7800],<remote-ip-address-n>[7800]' -Dfcrepo.ispn.numOwners=2 -Djava.net.PreferIPv4Stack=true"
```

```
mvn -Djetty.port=8889 jetty:run
```