*HPC Data MANAGEMENT*

DEVELOPMENT ENVIRONMENT SETUP

Version *1.2*

*01/01/2017*

**Version History**

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| --- | --- | --- | --- |
| **Version Number** | **Implemented**  **By** | **Revision**  **Date** | **Description of Change** |
| 1.0 | Eran Rosenberg | *5/17/2015* | Initial Draft |
| 1.1 | Eran Rosenberg | 8/17/2015 | Create local Keystore |
| 1.2 | Eran Rosenberg | 1/1/2017 | Updates after lib/tools upgrades |

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# SVN Code Repository

Check out the source code from SVN:

Repository URL: <https://ncisvn.nci.nih.gov/svn/HPC_Data_Management>

Branch name: hpc-prototype-dev

Set HPC\_HOME environment variable to the ‘hpc/src’ directory path in the source tree.

e.g /Development/HPC-DM/hpc-prototype-dev/src/hpc

# JDK

Install JDK 1.8 8u111: <http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>

Set JAVA\_HOME environment variable accordingly.

# MAVEN

Install Maven 3.3.3: <http://maven.apache.org/download.cgi>

Set MAVEN\_HOME environment variable accordingly.

# SERVICEMIX

Install Servicemix 7.0.0.M3: <http://servicemix.apache.org/downloads.html>

Set SERVICE\_MIX\_HOME environment variable accordingly

# PostgreSQL DB

Install PostgreSQL DB 9.5.5 <https://www.postgresql.org/download/>

Execute all SQL scripts in $HPC\_HOME/hpc-server/hpc-dao-impl/src/main/scripts **except** hpc\_hierarchical\_metadata.sql (this script is depending on having iRODS installed which we don’t have on local development environment)

# PATH

Set your $PATH environment variable

PATH=$MAVEN\_HOME/bin:$SERVICE\_MIX\_HOME/bin:$PATH

# Create Local Keystore

cd $HPC\_HOME

mvn clean install (This build will fail because the keystore file was not generated yet)

cd $HPC\_HOME/hpc-server/hpc-ws-rs-impl

mvn clean install –Pkeystore

Note: This step is needed to be performed once.

# BUILD

cd $HPC\_HOME

mvn clean install

# DEPLOY to SERVICEMIX

Run Servicemix console: servicemix

Install hpc-server (in Servicemix console):

features:repo-add mvn:gov.nih.nci.hpc/hpc-features/1.0.0-SNAPSHOT/xml/features

feature:install hpc-server-rest-services

feature:install hpc-server-scheduler

# ENDPOINTS

HPC DM Services are deployed to [https://localhost:7338/hpc-server/<hpc-service](https://localhost:7338/hpc-server/%3chpc-service)>