**STEPS for running MoDaC on local machine**

1. Before running MoDaC project, the required DME jars needs to be installed.

* Go to GitHub location <https://github.com/CBIIT/HPC_DME_APIs/tree/master/utils/hpc-client/lib> and download the following DME jars:
* hpc-dto.jar
* hpc-domain-types.jar

1. Now, run MoDaC project using the following steps:

* Clone the code from nci-doe-data-sharing repository on GitHub to your local machine:

git clone <https://github.com/CBIIT/nci-doe-data-sharing.git>

The above step clones the master branch. If a specific branch needs to be checkout out, use the following command:

git checkout <branch\_name>

Example: git checkout v2.4

To know the branch you are on, use the following command:

git branch

* The API version is indicated in nci-doe-data-sharing/pom.xml. Make sure the same API version matches the DME jars downloaded in step 1.
* Make the following changes to the MoDaC configuration file located at nci-doe-data-sharing/src/main/resources/appconfigs/local-env.conf
* Add passwords for the MoDaC database, Google Drive client and secret Id, Google Captcha, and service account passwords.
* In local-env.conf, point the property gov.nih.nci.hpc.server to the URL of the appropriate DME Dev Server e.g.

gov.nih.nci.hpc.server=https://fsdsgl- dmeap02d.ncifcrf.gov:7738/hpc-server

* Install DME jars (hpc-dto and hpc-domain-types) from the path: nci-doe-data-sharing/ using the following command:
* mvn install:install-file -Dfile=<path\_to\_hpc\_dto.jar> -DgroupId=gov.nih.nci.hpc -DartifactId=hpc-dto -Dversion=<api\_version> -Dpackaging=jar
* mvn install:install-file -Dfile=<path\_to\_hpc\_domain\_types.jar> -DgroupId=gov.nih.nci.hpc -DartifactId=hpc-domain-types -Dversion=<api\_version> -Dpackaging=jar

**OPTION 1: To deploy and run using terminal:**

* To do a maven build from terminal, run the following commands from the path nci-doe-data-sharing/
* mvn eclipse:clean
* mvn eclipse:eclipse

At this step, if the ojdbc6 jar missing error is seen, download the jar and install the jar at the directory where the pom.xml resides using the following command.

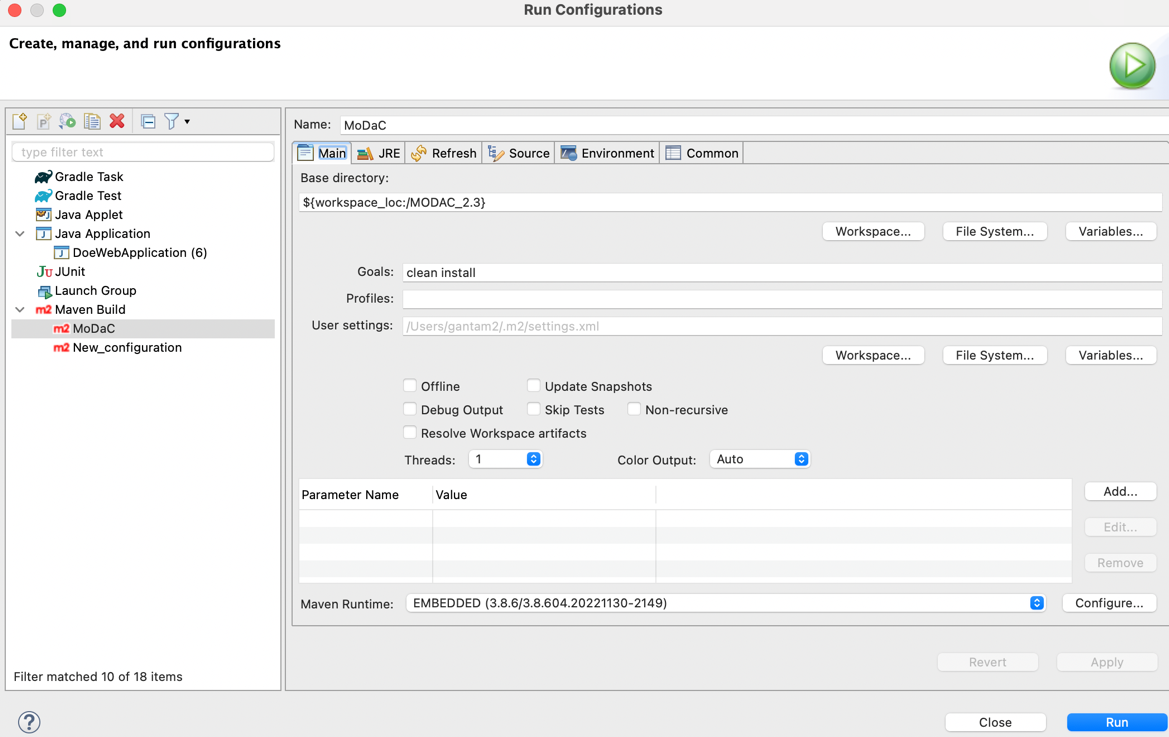
mvn install:install-file -Dfile=<path\_to\_ojdbc6 jar> -DgroupId=com.oracle -DartifactId=ojdbc6 -Dversion=11.2.0.4 -Dpackaging=jar

* mvn clean install -DskipTests
* To run the project, execute the following commands from /nci-doe-data-sharing/target:

Java -Xdebug -Xrunjdwp:transport=dt\_socket,address=9991,server=y,suspend=n -jar <web-doe-war\_file\_version.war>

**OPTION 2: Using eclipse IDE**

* To do the maven build from eclipse, right click on the project and do Run As🡪 Run Configurations.
* Click on “Maven Build” and set up run configurations as attached in the screenshot.



At this step, if the ojdbc6 jar missing error is seen, download the jar and install the jar at the directory from the path: nci-doe-data-sharing/ using the following command:

mvn install:install-file -Dfile=<path\_to\_ojdbc6 jar> -DgroupId=com.oracle -DartifactId=ojdbc6 -Dversion=11.2.0.4 -Dpackaging=jar

* To start the Project using eclipse, Right click on the project and click Run As🡪 java application and select DoeWebApplication (which is the main class).