**MoDaC Deployment Steps**

**Steps for iterating deployment:**

* **First Step: Build the war file on the DME server:**
* Login into hpc dev web server (ssh fsdsgl-dsapi01d.ncifcrf.gov).
* Do *sudo su - ncif-hpcdm-svc*
* Go to the directory /opt/nci-doe/nci-doe-data-sharing/
* Do a git pull and git checkout to the branch needed.
* Add the passwords under which are located under the path:

/opt/nci-doe/nci-doe-data-sharing/src/main/resources/appconfigs

* Do either one depending on the environment.

For DEV: mvn clean install -DskipTests -Pdev

For UAT: mvn clean install -DskipTests -Ppreprod

For PROD: mvn clean install -DskipTests -Pprod

* Copy the war file to the MoDaC server.

**For DEV server:**

scp /opt/nci-doe/nci-doe-data-sharing/target/<war\_file> [gantam2@fsdsgl-modac01d.ncifcrf.gov:/home/gantam2](mailto:gantam2@fsdsgl-modac01d.ncifcrf.gov:/home/gantam2)

**For UAT server:**

scp /opt/nci-doe/nci-doe-data-sharing/target/<war\_file> [gantam2@fsdsgl-modac01t.ncifcrf.gov:/home/gantam2](mailto:gantam2@fsdsgl-modac01t.ncifcrf.gov:/home/gantam2)

**For PROD server:**

scp /opt/nci-doe/nci-doe-data-sharing/target/<war\_file> [gantam2@fsdsgl-modac01p.ncifcrf.gov:/home/gantam2](mailto:gantam2@fsdsgl-modac01p.ncifcrf.gov:/home/gantam2)

* **Second step: Deployment on MoDaC server**:

* ssh to the appropriate MoDaC server:
* MoDaC DEV server: ssh fsdsgl-modac01d.ncifcrf.gov
* MoDaC UAT server: ssh fsdsgl-modac01t.ncifcrf.gov
* MoDaC PROD server: ssh fsdsgl-modac01p.ncifcrf.gov
* Stop tomcat using the command: *sudo systemctl stop tomcat.*
* Change the permissions of the war file using the commands:

chmod 777 <war\_file>

chmod 770 <war\_file>

sudo chgrp tomcat8 <war\_file>

* Move the war file to webapps folder using the command:

sudo mv <war\_file> /usr/share/tomcat8/webapps

* Perform sudo su and go to the directory **/usr/share/tomcat8/conf/** and edit the server.xml file for the line:
* <Context path="" docBase="web-doe-<war\_file\_version>" privileged="true"/>
* And in the line, change **deployOnStartup** and **autoDeploy** to **true**.

<Host name="localhost" appBase="webapps"

unpackWARs="true" deployOnStartup="false" autoDeploy="false">

* Go to directory /usr/share/tomcat/webapps/ and add service account group permissions to the war file using:

On DEV and UAT: *chgrp ncidoesvct2 <war\_file.war>*

On Prod : use *chgrp ncidoesvcp2 <war\_file.war>*

* Type “exit” and start tomcat*: sudo systemctl start tomcat*
* Go the **/usr/share/tomcat8/conf/** and change the server.xml file for:
* And in the line, change **deployOnStartup** and **autoDeploy** to **false**.

<Host name="localhost" appBase="webapps"

unpackWARs="true" deployOnStartup="false" autoDeploy="false">

* Type “exit” and run *“sudo systemctl restart tomcat”*

**Steps for First time deployment:**

**Build the war file in DME server:**

* Login into hpc dev web server(fsdsgl-dsapi01d.ncifcrf.gov).
* Do *sudo su*
* Create a folder under /opt named “nci-doe”.
* sudo su ncif-hpcdm-svc
* chown ncif-hpcdm-svc:ncif-hpcdm-svc nci-doe
* chown ncif-hpcdm-svc nci-doe
* Git clone <https://github.com/CBIIT/nci-doe-data-sharing.git> under the nci-doe folder.
* Do mvn install -DskipTests
* scp /opt/nci-doe/nci-doe-data-sharing/target/<war\_file\_> [gantam2@fsdmel-modac01d.ncifcrf.gov](mailto:gantam2@fsdmel-modac01d.ncifcrf.gov):/home/gantam2
* If ojbc6 jar is missing, add the jar

The objdbc6 jar has been obtained from https://www.oracle.com/database/technologies/jdbc-drivers-12c-downloads.html.

mvn install:install-file -Dfile=path/to/your/ojdbc6.jar -DgroupId=com.oracle -DartifactId=ojdbc6 -Dversion=11.2.0.4 -Dpackaging=jar

* **This step is for first time server set up only. Skip for Iterating deployments.**
* then cd to /usr/share/tomcat/webapps
* copy ojdbc6 jar which was downloaded initially.

source is ojdbc6.jar

destination is home directory on MoDaC server

scp ojdbc6.jar [gantam2@fsdsgl-modac01d.ncifcrf.gov:/home/gantam2](mailto:gantam2@fsdsgl-modac01d.ncifcrf.gov:/home/gantam2)

* change permissions on ojdbc6 jar using

chmod all to ojdbc6.jar

* sudo to tomcat8
* move the jar to webapps folder and then from here to lib folder using the following commands:

mv /home/gantam2/ojdbc6.jar /usr/share/tomcat/webapps

mv usr/share/tomcat/webapps/ojdbc6.jar /usr/share/tomcat/lib

* add this below line server.xml at the end of the file:
* <Context path="" docBase="<web-doe\_version\_number" privileged="true"/>
* To start tomcat: sudo systemctl start tomcat
* To stop tomcat: sudo systemctl stop tomcat
* To restart tomcat: sudo systemctl restart tomcat