GeoSDI installation tutorial

Build geoSDI from source

geoSDI is written in Java using GWT, Spring and Hibernate. The build automation is done by Maven.

To build geoSDI form source you need the following software:

- git to clone the geoSDI github repository.
- maven to build the source code.
- java 7 or higher. Point the JAVA_HOME environment variable to the jre directory of your java installation:
  - `export JAVA_HOME=/usr/lib/jvm/java-7-openjdk-amd64/jre/`
- PostgreSQL 9.2 it needs to be this version because this is hard coded in the maven configuration
- PostGIS

From this point on the manual from github can be followed. This tutorial will provide some extra information.

1. First a the geo-platform's service stack needs to be downloaded. At the moment of writing branch 1.6.x is a stable branch.
   git clone https://github.com/geosdi/geo-platform.git
2. Create a database called gp with a postgis extension.
   ```
   createdb gp
   psql -d gp -c "CREATE EXTENSION postgis;"
   ```
   Fill in the user name and password of the gp database in the gp-db.properties (~/geo-platform/geoplatform-tools/geoplatform-configurator/src/main/resources/gp-db.properties)
3. execute `mvn clean install` from <geoSDI_directory>/geoplatform-tools/geoplatform-configurator
4. execute `mvn clean install -P wms,wfs` from <geoSDI_directory>/geoplatform-service
   Sometimes the ddl to create the tables in the gp database is not executed correctly. This can also be done manually if it is not running automatically. The ddl is located in the following subfolder: $geo-platform/geoplatform-services/geoplatform-core/geoplatform-dao/target/classes/geoplatform-model.ddl
5. launch the web-services: `mvn jetty:run -P wms,wfs`
6. compile the geoplatform-base-app:
   - clone geoplatform-base-app git clone https://github.com/geosdi/geoplatform-base-app.git
   - Go to the geoplatform-base-app directory and run mvn clean install
     During this installation the geoplatform-gxt-resources-2.3.0.jar will be downloaded. My installation failed to download that file. The geoSDI team send my that specific file. If you've the same problem you can mail one of the developers and ask for that file. It can be installed with the following command:
     ```
     mvn install:install-file –Dfile=geoplatform-gxt-resources-2.3.0.jar –DgroupId=org.geosdi –
     DartifactId=geoplatform-gxt-resources -Dversion=2.3.0 -Dpackaging=jar
     ```
7. Launch the geoplatform-base-app with `mvn jetty:run`. You can access the geo-platform-base-app on localhost:9393