**Purpose:**

To install GeoNetwork metadata application and the GeoServer data application on a suitable server. Links also established to the PostgreSQL / PostGIS spatial database.

Do \*not\* move the GeoServer data directory until instructed in step 9.

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| **Step** | **Major Activity** | **References, Forms and Details** |
| **1** | Go to the GeoNetwork download location (SourceForge) and download the appropriate version for the operating system. | Use the \*.jar version, because this creates the complete installation. For Linux use a variant of:  Wget https://sourceforge.net/projects/geonetwork/files/GeoNetwork\_opensource/v3.2.1/geonetwork-install-3.2.1-0.jar/download/geonetwork-install-3.2.1-0.jar. |
| **2** | Install the application, selecting GN and GS. To install, simply double-click the file (Windows) or type java –jar <pathAndFilename> | Installation directory should not be in Program Files. Often, C:\ is chosen. |
| **3** | Create a directory structure in the geonetwork-install base location:  <install-dir>/gn\_data  <install-dir>/gs\_data | * Actual gn and gs folder names are not important * gn\_data directory will contain the geonetwork data * gs\_data will contain the geoserver data |
| **4** | Configure the GeoNetwork to use a PostGIS database for metadata record storage. This is a three-file configuration in the WEB-INF folder:   * conf-node/srv.xml * conf-db/jdbc.properties * jetty-env.xml | Normally use the JNDI Pool resource management   * In **srv.xml**, select jndi-postgres:as follows   <import resource="../config-db/jndi-postgres-postgis.xml"/>   * In **jdbc.properties** , set   + Username, password, database   + note the name of the geonetwork database (e.g. gndb4) * In **jetty-env.xml** set to match previous settings   + Username, password, database |
| **5** | Set the **java** data directory variables to the default value  -Dgeonetwork\_dir = <INSTALL-DIR>\GeoNetwork\web\geonetwork\WEB-INF\data  -DGEOSERVER\_DATA\_DIR=<install dir>/web/geonetwork/WEB-INF/data | * These two entries are placed on the java – jar \*\*\* command in the <instal\_dir>\bin folder * If Windows, in startup.bat * If Linux, in startup.sh |
| **6** | Test GeoNetwork.   * Try and start the GeoNetwork server:   <http://localhost:8080/geonetwork>  If you can load the GeoNetwork html page and also see the world map, then done. | * Final configuration of geoserver data locations will occur after the first run. Also, the first access of the GeoNetwork database will install the required tables via SQL statements. |
| **7** | If deficiencies, fix:   * If it will not start, there is likely something wrong with the config files. * If world map does not show, likely the GN and GS data directories were not initially set to default values. |  |
| **8** | If it starts okay, change the default logo. | PostGIS will hold metadata and the info.xml files. The data and the graphic images are stored separately in the geonetwork\_directory |
| **9** | Move the geonetwork and geoserver data directories outside of the <install\_dir>, and modify the paths set in step 5. | * makes updates to the gn and gs applications independent of the data |
| **10** | If desired, replace GeoServer with the most current version. | Use ISO process 301-07 |