Geoserver

Geoserver is used to deploy and to locally test the generated WPS

- *GeoServer* installation
  - http://docs.geoserver.org/latest/en/user/installation/index.html#installation
    - GeoServer requires a **Java 8** environment. The Oracle JRE is preferred, but OpenJDK has been known to work adequately.
  - http://docs.geoserver.org/latest/en/user/installation/win_installer.html
  - http://geoserver.org/download/
  - during install, you have to provide
    - an Admin id and a Password, by default *admin* and *geoserver*
    - a port for request invocation, by default 8080
- WPS extension installation :
  - http://docs.geoserver.org/stable/en/user/services/wps/install.html
  - download the WPS extension : http://geoserver.org/release/stable/
  - unzip the WPS extension in the *GeoServerinstall*/`webapps/geoserver/WEB-INF/lib` repository
  - add `gt-wps-XX.jar` in the same repository, the version number has to be the same as the version number used for WPS development
- Start the server, using the generated *Start GeoServer* in the *GeoServer Menu*
- Check that *WPS* is in the *Services* menu of *GeoServer*
- To test a deployed WPS, use your browser with the local address http://localhost:8080/geoserver
- Connection to the server using *admin / geoserver*
- To stop the server, use the generated *Stop GeoServer* in the *GeoServer* menu

Eclipse Modeling Tools

The *NOUMEA* project is based on *Eclipse Modeling Tools*

- Download and unzip the *Windows 32-bit Neon Version* in the *C:\eclipseWPS* folder
  - https://www.eclipse.org/downloads/packages/eclipse-modeling-tools/neonr
- Configure *Eclipse* (*C:\eclipseWPS\eclipse*) to use the *JDK1.8* JVM
  - https://wiki.eclipse.org/Eclipse.ini
- Download and unzip the *wpsWorkspace* and *runtime-EclipseApplication* folders in the same folder as your *eclipse* folder has been installed (*C:\eclipseWPS\wpsWorkspace* and *C:\eclipseWPS\runtime-EclipseApplication*)
  - *https://github.com/jpbabau/Noumea*
- Start *eclipse.exe (C:\eclipseWPS\eclipse*)
  - Select the *C:\eclipseWPS\wpsWorkspace* folder as the workspace
- Install *Acceleo*, *Sirius* and OCL
  - *Help / Install Modeling Components*
  - Select *Acceleo*, *Sirius* and *OCL Tools*
  - *Finish*, *Next*, *Accept, restart Eclipse* : *Yes*
- Install *e(fx)clipse*
  - https://www.eclipse.org/efxclipse/install.html
  - *Help / Install New Software…*
  - *–All Available Sites*
    - *e(fx)clipse*
  - select *e(fx)clipse - IDE*
  - *Next*, *Accept*, *Finish, restart Eclipse : Yes*
- Install Maven

    - *Help / Install New Software…*
    - *Add…*
        - *Maven*
        - *http://download.eclipse.org/technology/m2e/releases*
    - select *Maven Integration for Eclipse*
    - *Next*, *Accept*, *Finish, restart Eclipse : Yes*

Application and WPS design environment installation

- Start *eclipse.exe* if necessary
    - *wpsWorkspace* is the workspace
- Import the NOUMEA projects
    - *File / Import / Existing Projects into Workspace*
    - *Next*
    - *Browse*
    - *OK*
    - *Select all projects, Finish*

Application configuration

- Select the *NoumeaUI* project
- Right-click *Run As / Eclipse Application*
    - Launch a new Eclipse instance
- Import examples
    - *File / Import / Existing Projects into Workspace*
    - *Next*
    - *Browse*
    - *OK*
    - *Select all projects, Finish*
- *Window/Perspective / Open Perspective / Other …*
    - *Sirius*
- *Window/Show View / Other …*
    - *Other/My FX View*
    - For Noumea, you only need the *Properties* and *My FX View* views