Getting started with myWMS

Release 2

Programming Environment

This is a description how to set up myWMS release 2.

Requirements

Sources of myWMS. Clone the project on gitlab or download the sources.

https://gitlab.com/mkrane/mywms

Below we will call the directory where the sources are located \$media

Java SDK

The checked version is OpenJDK version 1.8.0 and 11.0

Beware that we need the SDK, not the JRE

WildFly application server

You will find it on www.wildfly.org/

The checked version is 18.0.0

Below we will call the directory where wildfly is located **\$wildfly**

Maven build system

You will find it on https://maven.apache.org

Netbeans programming IDE

You will find it on https://netbeans.apache.org

The currently used version is NetBeans 11

Other versions of Netbeans will potentially not work without changing the program. In doubt use this version.

Setup Server

· Configure WildFly

Copy the file **\$media**/config/wildfly-18/standalone.xml to **\$wildfly**/standalone/configuration/standalone.xml

Compile the server components

Open a shell and go to \$media/dev

Run command: mvn clean install

This will build all server components

Deploy the application to wildfly

Copy the file **\$media**/dev/project-ear/target/mywms.ear into the folder **\$wildfly**/standalone/deployments

Start wildfly

Open a shell and run **\$wildfly**/bin/standalone.sh (on windows standalone.bat)

Now the server components are available to you.

- Point a web browser to 'http://localhost:8080/los-mobile'.
- You should be able to login with 'admin', 'admin'.

Setup Rich Client (Netbeans)

- Start Netbeans
- Choose 'File / Open Project' and browse to \$media/rich.client/los.clientsuite.
- You will get a project called 'LinogistiX LOS Client'.
- · Open context menu on the project and choose 'Clean and Build'.
- There is another netbeans suite available called 'LOS Reference Client'
 This is a reference implementation of the basic 'LinogistiX LOS Client'. To access this application, you first have to create a netbeans platform based on the 'LinogistiX LOS Client' and then you can build and start the reference-implementation.
 - · Open the context menu on the project 'Linogistix LOS Client'
 - · Select 'Package as | ZIP Distribution'
 - Choose 'File / Open Project' and browse to **\$media**/rich.client/los.reference
 - You will get a project called 'LOS Reference Client'
 - Open the context menu on the project 'LOS Reference Client'. And choose 'Properties'.
 - Navigate to the Libraries category and select 'Manage Platforms...'
 - Choose 'Add Platform...'
 - Navigate to \$media/rich.client/los.clientsuite/nbplatform/linogistix_clientsuite and Choose 'Finish'
 - Now you are able to select the NetBeans Platform 'Linogistix LOS Client'
 - Make sure that all platform modules are included!
 - · Finish this step with 'OK'
 - Open the context menu on the project 'LOS Reference Client'. Choose 'Run'. On start up a login dialog is displayed and you should be able to log in with 'admin', 'admin'

Further Optional Actions

Setup postgreSQL Database

The basic installation uses a h2 database. In productive environments, we recommend the usage of PostgreSQL.

- Download and Install the PostgreSQL database You will find it on www.postgresql.org Latest checked version is 10
- Configure database
 - Create a new role named 'mywms' with password 'mywms'

- Create a new database named 'mywms' with owner 'mywms'
 These names and passwords are used in some scripts. If you use different names, you have to change the login and data-source scripts.
- Change Wildfly configuration to use the postgreSQL database:
 - Stop wildfly
 - Copy \$media/config/wildfly-16/standalone-postgres.xml to \$wildfly/standalone/configuration/standalone.xml
- Deploy the database driver

Download the JDBC driver for postrgeSQL. postgresql-42.2.5.jar. You will find it on https://jdbc.postgresgl.org

Copy postgresql-42.2.5.jar into the directory **\$wildfly**/standalone/deployments

Change myWMS configuration to use the postgreSQL database

Edit the file

\$media/dev/project-persistence/src/main/resources/META-INF/persistence.xml
Change the hibernate.dialect property to 'org.hibernate.dialect.PostgreSQLDialect'

Open a shell and go to \$media/dev and run the command: mvn clean install

Deploy the application to wildfly

Copy the file **\$media**/dev/project-ear/target/mywms.ear into the folder **\$wildfly**/standalone/deployments

Start wildfly

Open a shell and run **\$wildfly**/bin/standalone.sh (on windows standalone.bat)

Change Passwords

For security reasons it is strictly recommended to change all passwords.

It is more easy for a first time setup of a local development system with the use of documented default passwords. But at the latest when leaving the development system these passwords should really be changed.