

Setting up the GWP Development Environment

1 Eclipse & JBoss

- Download Eclipse Java EE: <http://www.eclipse.org/downloads/>
- Unzip Eclipse and run it
- Help->Eclipse Marketplace
 - Search for "JBoss Tools"
 - Select and install: Hibernate Tools, JBoss Tools JSF, JBoss Tools RichFaces, JBossAS Tools, Seam Tools
 - Restart Eclipse when prompted to do so
- Download JBoss 4.2: <http://www.jboss.org/jbossas/downloads/>
- Extract and remember the directory where you extracted it (e.g. /opt/jboss or C:\jboss)
- File->Import->Project from GIT: <https://github.com/play4science/gwap.git>
 - "Find projects [..]" auswählen
- Window->Show view->Ant, add (Button on top right of this view) build.xml
- Only for OS X:
 - In project settings, set "Default Encoding" to UTF-8
 - In Preferences, in Java -> Installed JREs -> select used JDK -> Edit -> Default VM Arguments: -Dfile.encoding=UTF-8
- Ant targets (doubleclick in Ant-View):
 - local-settings (enter the JBoss directory from above)
 - prepare-jboss
 - buildtest
- In the projects view on „gwap“ right-click -> refresh (the red exclamation mark is hopefully gone now)
 - Run Ant target deploy
- In the "Servers"-view:
 - Create JBoss 4.2 Runtime Server (Community Version!) and select JBoss directory
 - Do not add the gwap-project to the configured projects
- Run JBoss in debug-mode

2 PostgreSQL Database

- Install PostgreSQL (9.1 or later)
- Create database (psql command prompt)
`create user gwap password 'gwap';`

```
create database gwap owner gwap;
```

- Load database schema and data into database
 - Possibility 1: Load existing dump in PostgreSQL

```
psql -h localhost -U gwap gwap < DUMP.sql
```
 - Possibility 2: Let JBoss create the tables
 - edit the file: `resources/META-INF/persistence-dev.xml`

```
<property name="hibernate.hbm2ddl.auto" value="create-drop"/>
```
 - `ant redeploy`
 - start JBoss
 - in `persistence-dev.xml` change to `value="update"`
 - `ant redeploy`
- Update path in table „source“, e.g.:

```
UPDATE source SET url='<JBoss-directory>/server/default/deploy/GWAP.ear/artigo.war/' WHERE id=1;
```

3 Solr (Search)

- Deploy Solr:

```
ant solr-deploy
```
- Open <http://localhost:8080/solr/artigo/dataimport?command=full-import> (default credentials: „solr“ / „solr“) and <http://localhost:8080/solr/metropolititalia/dataimport?command=full-import> once to create search index

4 Basic Commands for Deployment

- Update server with new files (xhtml, js, css):

```
ant deploy
```
- Update server with new Java files:

```
ant redeploy
```
- Change which projects are deployed:

```
build.properties
```
- Default URL for deployment:

```
http://localhost:8080/artigo/ /  
http://localhost:8080/metropolititalia/ /  
http://localhost:8080/elearning/ ... (by the name of the subproject)
```