

Geo Catching

Sprint #3 Kick-off - Appendix

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Reminder:
Deploy your
web services

Back to: Plugins for custom goals

mvn jetty:run

run a jetty (server) instance based on the configuration

```
<plugins><plugin>....  
  <configuration>  
    <scanIntervalSeconds>10</scanIntervalSeconds>  
    <webApp>  
      <contextPath>/path</contextPath>  
      <descriptor> [...] web.xml</descriptor>  
    </webApp>  
  </configuration>  
</plugin></plugins>
```



Contains configuration for the web-service

Back to: Plugins for custom goals

mvn jetty:run

run a jetty (server) instance based on the configuration

Comes from the @Path annotations

=> **Deploy the war on a jetty instance**

=> Available at **localhost:8080/path/library/book**

Comes from Jetty config in pom

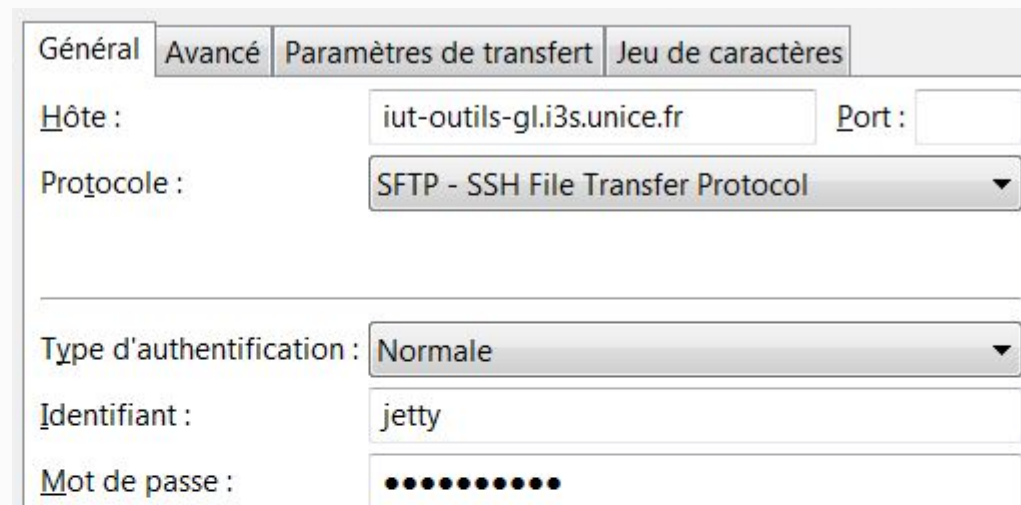
Comes from web.xml

Deploying the war on a server

- Jetty server available at <http://iut-outils-gl.i3s.unice.fr/jetty/>
Username: 'jetty' Password: 'deploy2016'

- Deployment:

- **Command line:** `scp /path/to/war jetty@iut-outils-gl.i3s.unice.fr:/opt/jetty/webapp/my.war`
- Using a tool like [FileZilla](#):



The image shows a screenshot of the FileZilla configuration dialog box, specifically the 'Général' (General) tab. The dialog is used to configure an SFTP connection. The fields are as follows:

- Hôte :** iut-outils-gl.i3s.unice.fr
- Port :** (empty)
- Protocole :** SFTP - SSH File Transfer Protocol
- Type d'authentification :** Normale
- Identifiant :** jetty
- Mot de passe :** (masked with dots)

Deploying the wars on a server

- Your wars must be directly in the folder /opt/jetty/webapps/
 - No sub-folder
- Only upload a single war for the same service
 - Always use the same names for your wars
- The name of your wars must follow this pattern
 - Start with 'idse-x' where x is the id of your team (1 to 4)
 - A file 'idse-6.war' will result in your web-service to be deployed at the url:

[http://iut-outils-gl.i3s.unice.fr/jetty/
idse-6/{whats/defined/in/your/war}](http://iut-outils-gl.i3s.unice.fr/jetty/idse-6/{whats/defined/in/your/war})

Note: Urls after deployment

Comes from the @Path annotations

`http://iut-outils-gl/jetty/idse-6/library/book`

Comes from the name of the war

Comes from web.xml

How to...

Deploy your database

Deploying the database

- Steps for Deploying the database:
 - **Step 1:** upload your sql file(s)
 - **Step 2:** create the database
 - **Step 3:** call the database from your web service
- **Constraints:**
 - We use MySQL
 - Your SQL file(s) should start by idse-X
 - Your database **MUST** be named idse-X-geo

(X = the id of your team)

Step 1: Upload your sql files

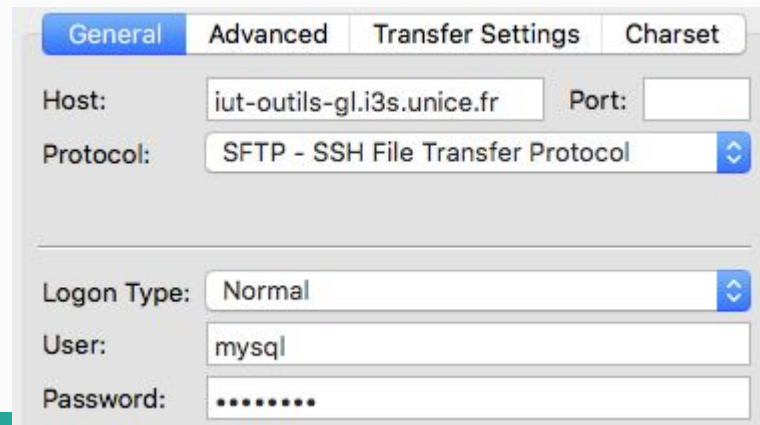
- Mysql server deployed at <http://iut-outils-gl.i3s.unice.fr/>
Username: 'mysql' Password: 'mydb2016'
- You **MUST** save your sql files (named properly) in the folder [/var/lib/mysql/scripts/](#)

- **How to:**

- **Command line:** `scp /local/path/to/my/file.sql`

`mysql@iut-outils-gl.i3s.unice.fr:/var/lib/mysql/scripts/idse-X.sql`

- **Using a tool like [FileZilla](#):**



The image shows the 'General' tab of the FileZilla client interface. The 'Host' field is set to 'iut-outils-gl.i3s.unice.fr'. The 'Protocol' is set to 'SFTP - SSH File Transfer Protocol'. The 'Logon Type' is set to 'Normal'. The 'User' field is set to 'mysql'. The 'Password' field is masked with dots.

Step 2: Deploy the database

- Mysql server deployed at <http://iut-outils-gl.i3s.unice.fr/>
Username: 'mysql' Password: 'mydb2016'
- Connect to the server: `ssh mysql@iut-outils-gl.i3s.unice.fr`
- Your mysql user: **Username: 'lpidse' Password: 'idse1617db'**
- Execute your sql file(s):
 - If it contains a CREATE DATABASE:
`mysql -u lpidse -p < scripts/create.sql`
 - If not, and the database already exists:
`mysql -u lpidse -p idse-X-geo < scripts/fill.sql`
- Check that the database exists:
 - `/bin/mysqlshow -u lpidse -p idse-X-geo`

Step 3: Call from your service

- Do like before, just use the proper database name

```
driver = "com.mysql.jdbc.Driver";  
url = "jdbc:mysql://localhost:3306/idse-X-geo?&useSSL=true";  
user = "lpidse";  
pwd = "idse1617db";  
Connection connect = DriverManager.getConnection(url, user, pwd);
```

- Protip:
 - save the names of your database and tables in a separate constants, and always use them to avoid mistakes.

Friendly
reminder...

What's maven?

- Descendant of Make and Ant
- Objectives
 - => Handle dependencies
 - => Automate tasks (compile, test, ...)
- Configuration with a **pom.xml** file
- Javascript equivalent:
npm for dependencies, grunt for tasks

Handle dependencies

- => Maven knows the libraries you depend on
- => Maven fetches the proper jars for you
- => The pom is enough to begin coding on the project
- => People can use any IDE easily
- => **NO JARS TO BE ADDED MANUALLY**
- => Using MySQL in your code = dependency in your pom

```
<dependency>  
  <groupId>mysql</groupId>  
  <artifactId>mysql-connector-java</artifactId>  
  <version>5.1.4</version>  
</dependency>
```