

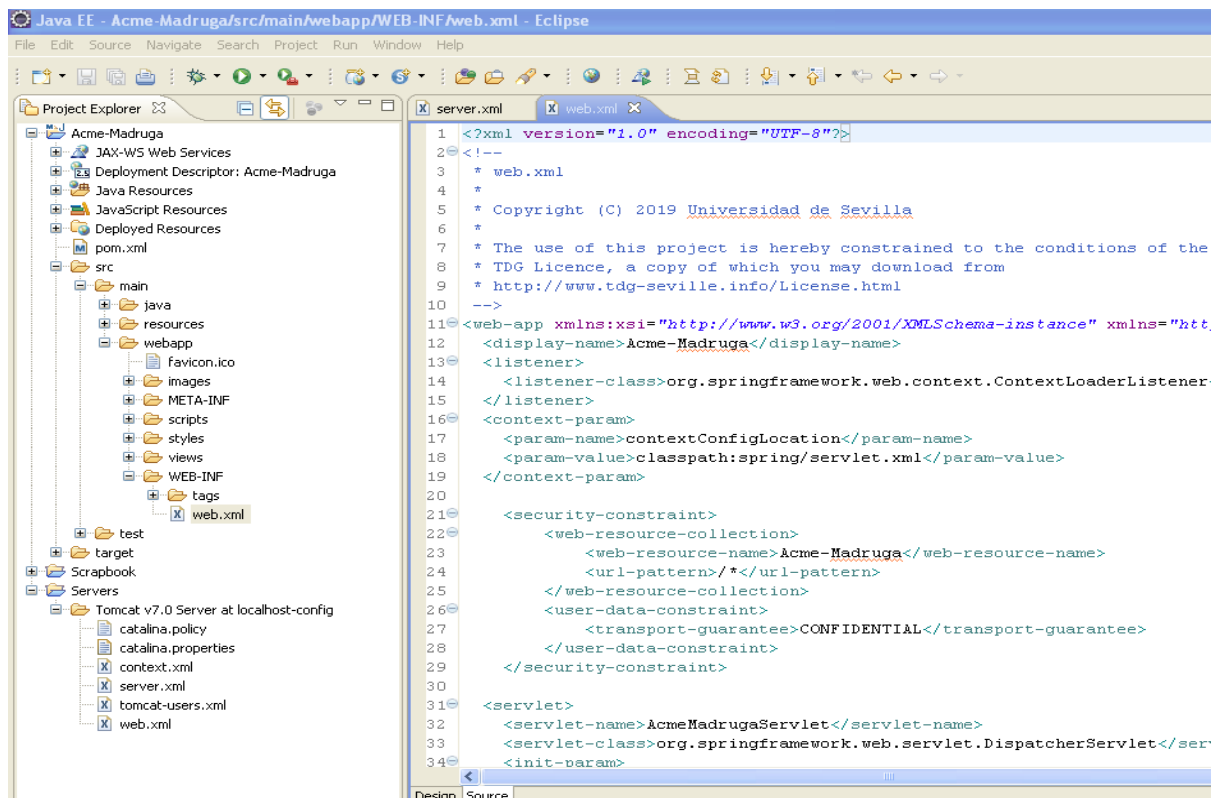
Acme Madruga – Https Configuration

Configuring our project

To configure our project go to the webapp folder and locate the web.xml file.

We are going to create a new security tag, in this tag we will indicate the name of our project (Acme-Madruga), the url pattern (put “/*” to use https in all our website, not just in the login process), and the transport guarantee constraint “Confidential” to tell the server that the use of SSL is required.

```
<security-constraint>
  <web-resource-collection>
    <web-resource-name>Acme-Madruga</web-resource-name>
    <url-pattern>/*</url-pattern>
  </web-resource-collection>
  <user-data-constraint>
    <transport-guarantee>CONFIDENTIAL</transport-guarantee>
  </user-data-constraint>
</security-constraint>
```

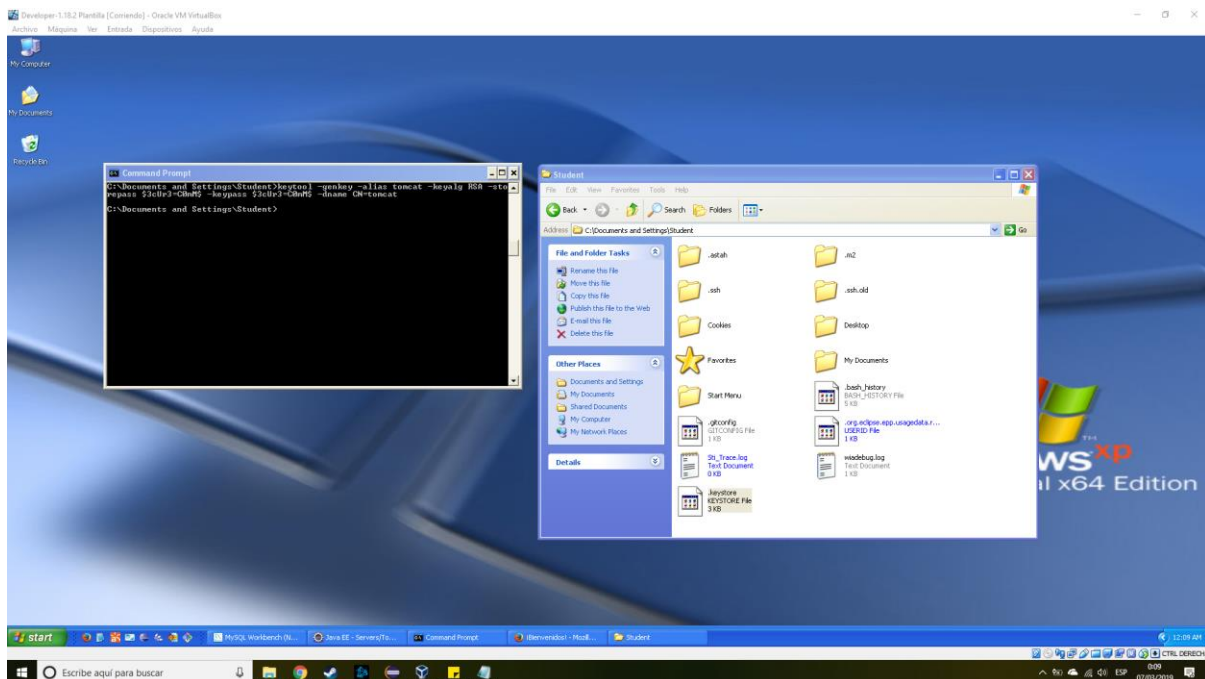


Creating the SSL certificate

To create our certificate we are going to open a command prompt in the location where we are going to establish the certificate and execute the next command:

```
keytool -genkey -alias tomcat -keyalg RSA -storepass $3cUr3=C0mM$ -keystore $3cUr3=C0mM$ -dname
```

Where keypass is the password of our certificate, in our case we decided to use “\$3cUr3=C0mM\$”. It will generate the certificate in the user folder.

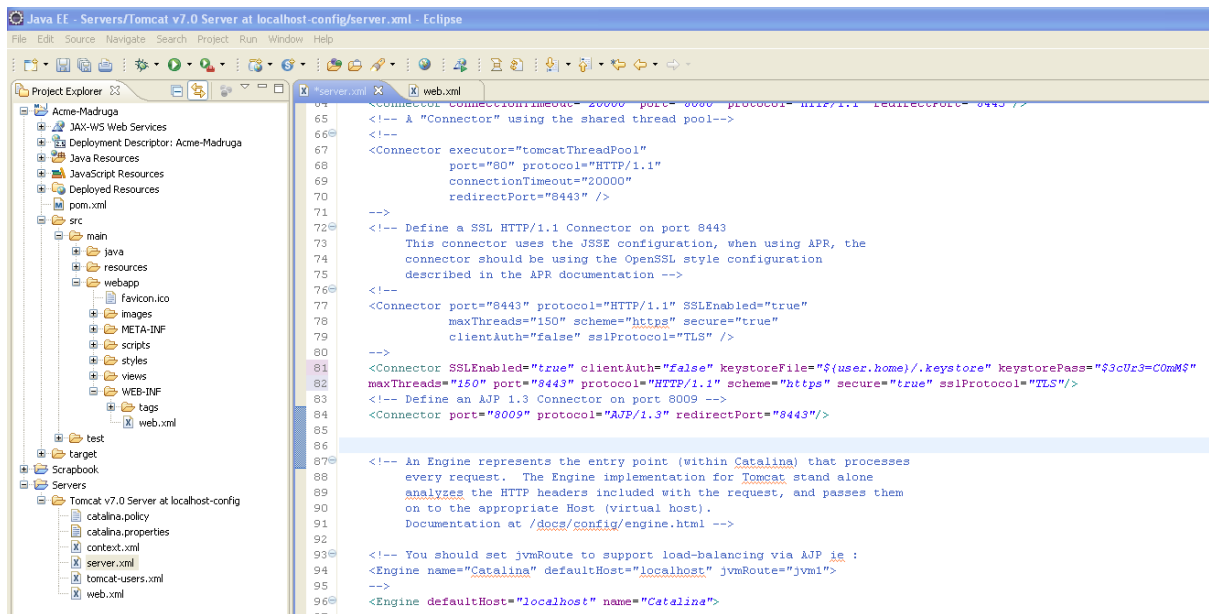


Configuring Tomcat

Configuring Tomcat is really easy, go to your server folder and open server.xml, we are going to define a new Connector tag.

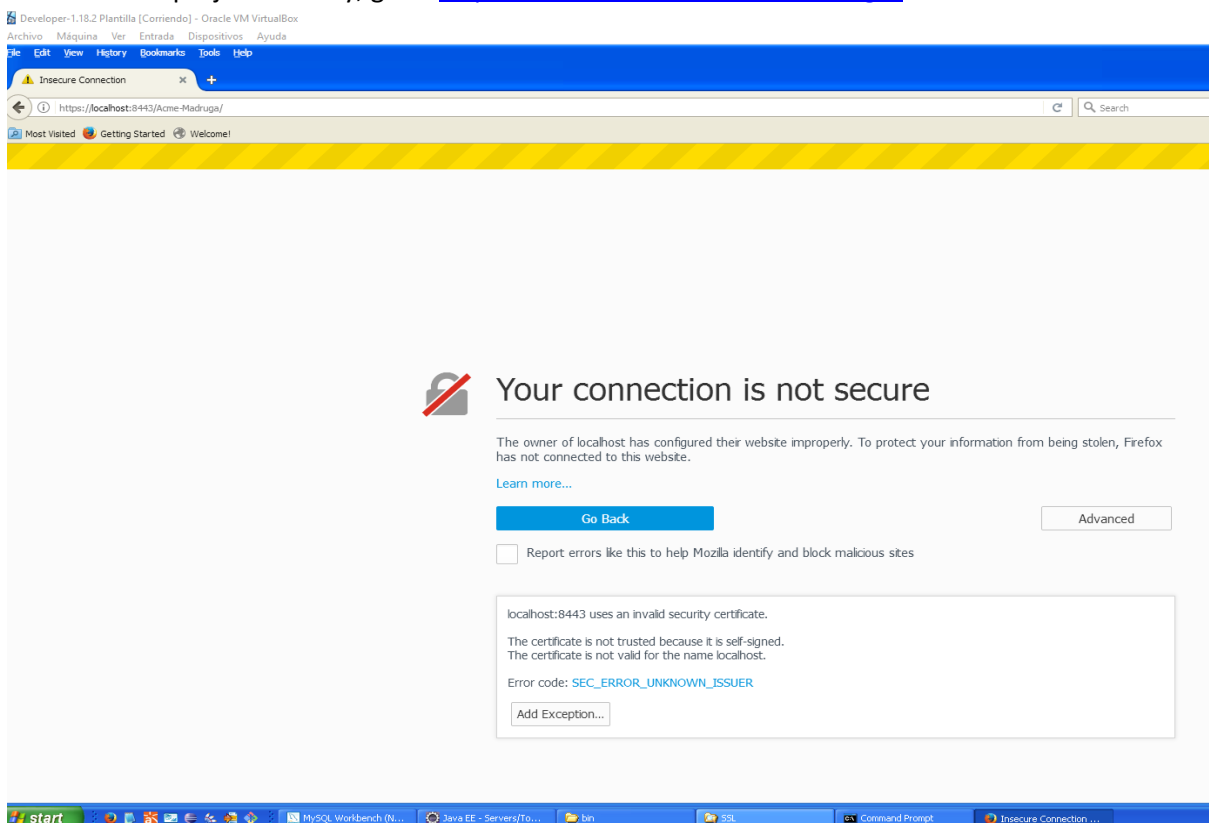
This tag already exist in the file but is commented, you just need to add two new params to indicate the location and password of the certificate:

```
<Connector SSLEnabled="true" clientAuth="false" keystoreFile="$ {user.home}/.keystore"
    keystorePass="$3cUr3=C0mM$"
    maxThreads="150" port="8443" protocol="HTTP/1.1" scheme="https" secure="true"
    sslProtocol="TLS"/>
```



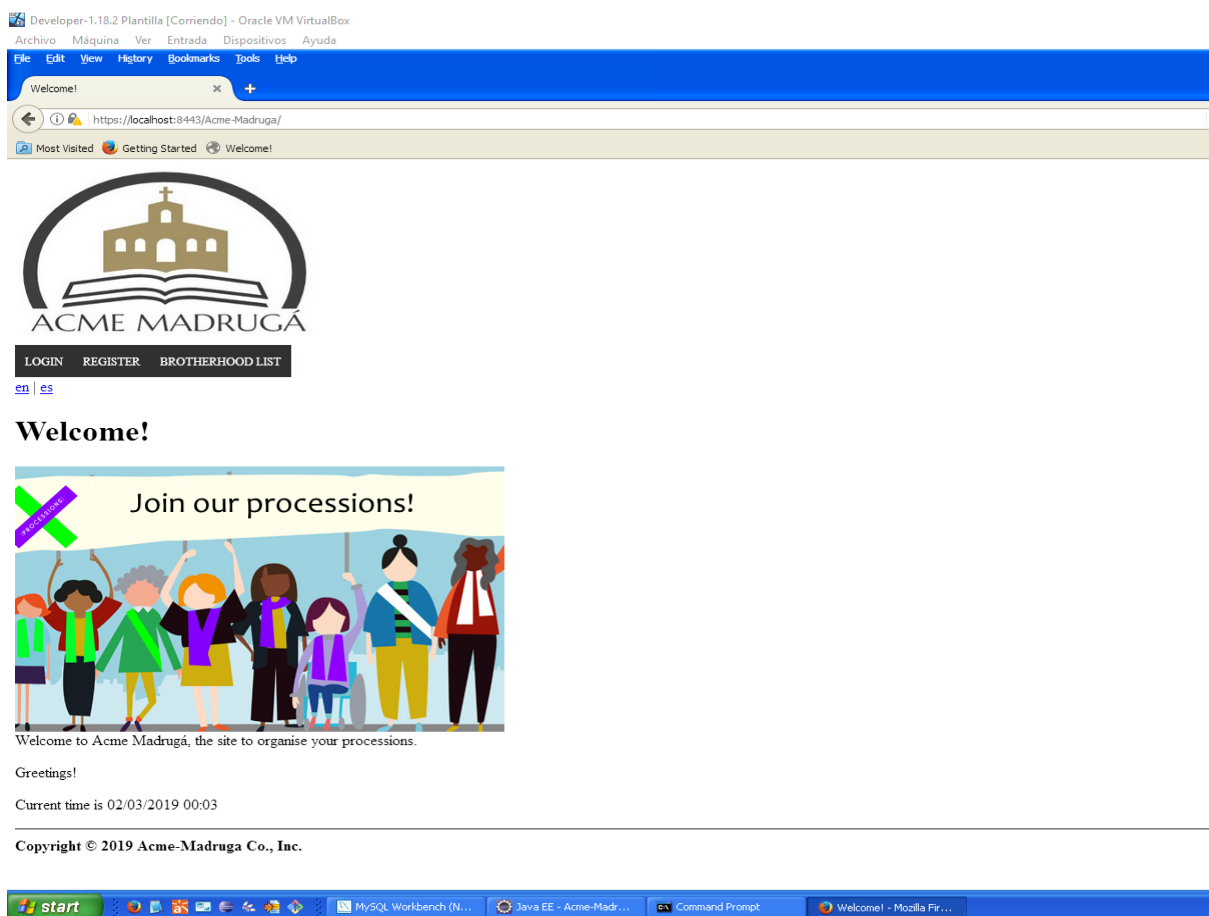
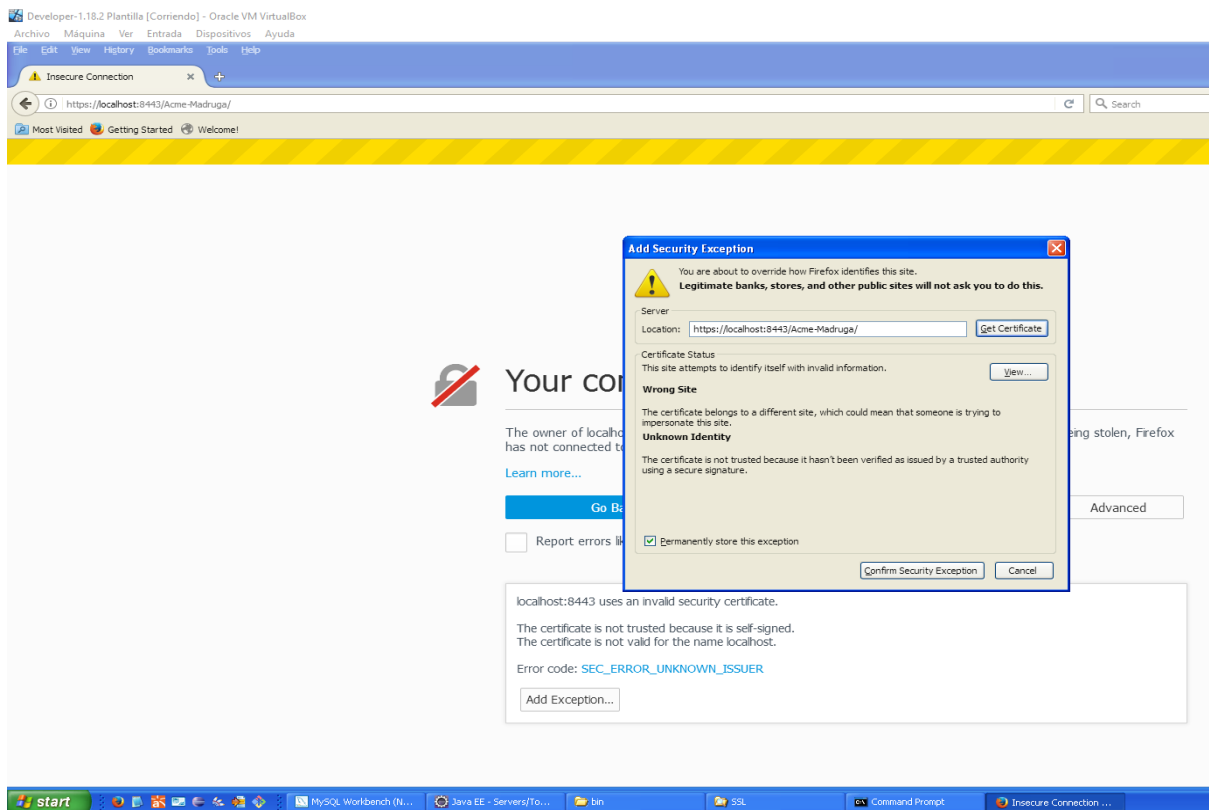
Checking the results

Now that our project is ready, go to <http://localhost:8080/Acme-Madruga/>



If we see this page, we succeeded configuring https for our application, but since we created our own certificate, the browser will warn us that is probably an insecure page.

Add the exception to the browser and confirm the security exception.



Results:



If you want to check this results please use the sample project and sample workspace that we attached to item 2 and move the certificate (inside sample workspace folder) to the users folder, in our case is C:\Documents and Settings\Student.