

HTTPS report

We are going to explain how to implements https protocol in eclipse maven project:

- First, we have to generate a certificate:

Open terminal and write this command:

```
keytool -genkeypair -alias CertificateName -keyalg RSA  
-keystore="WhereYouWantToSaveCertificate"
```

Then you must enter a password and answer some questions about first and last name, organization unit, organization name, city, province and a code for your location. Finally you re-enter your password and keytool generate the certificate in the specified location.

Once we generate a certificate, we have to configure SSL in Tomcat.

- Open "server.xml", following this: Servers -> Tomcat -> **server.xml** and uncomment this adding *keystoreFile=""* and *keystorePass=""* :

```
<Connector port="8443" protocol="HTTP/1.1" SSLEnabled="true"  
    maxThreads="150" scheme="https" secure="true"  
    clientAuth="false" sslProtocol="TLS"  
    keystoreFile="WhereYouHaveSavedTheCertificate"  
    keystorePass="CertificatePassword" />
```

- And finally open Deployed Resources -> webapp -> WEB-INF -> **web.xml** and add this security constraint:

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