## Create a SSL Certificate

Run the following command to generate the certificate to make Tomcat support SSL. Generate Certificate

keytool -genkey -alias tomcat -keyalg RSA -keystore/opt/tomcat/keystore/tomcat

The tool is going to ask some questions to feed the certificate. The certificate is going to be in the folder /opt/tomcat/keystore/tomcat and the name of the certificate is tomcat. You can check the certificate with the command keytool -list -keystore /opt/tomcat/keystore/tomcat.

## Use the certificate in Tomcat

Edit the file /opt/tomcat/conf/server.xml and add an SSL connector.

#### Connector

Restart tomcat and you are done. Now you can run your Applications under HTTPS in Tomcat.

# Complete source code

### tomcat-users.xml

## server.xml

```
<?xml version='1.0' encoding='utf-8'?>
<Server port="8005" shutdown="SHUTDOWN">
  <Listener className="org.apache.catalina.startup.VersionLoggerListener"/>
  <Listener SSLEngine="on" className="org.apache.catalina.core.AprLifecycleListener"/>
  <Listener className="org.apache.catalina.core.JreMemoryLeakPreventionListener"/>
  <Listener className="org.apache.catalina.mbeans.GlobalResourcesLifecycleListener"/>
  <Listener className="org.apache.catalina.core.ThreadLocalLeakPreventionListener"/>
  <GlobalNamingResources>
    <Resource auth="Container" description="User database that can be updated and saved" \leftrightarrow
        \texttt{factory="org.apache.catalina.users.MemoryUserDatabaseFactory" name="UserDatabase"} \quad \boldsymbol{\longleftrightarrow}
        pathname="conf/tomcat-users.xml" type="org.apache.catalina.UserDatabase"/>
  </GlobalNamingResources>
  <Service name="Catalina">
    <Connector connectionTimeout="20000" port="8080" protocol="HTTP/1.1" redirectPort="8443 ↔
        "/>
    <Connector port="8443" protocol="org.apache.coyote.http11.Http11NioProtocol"</pre>
               maxThreads="150" SSLEnabled="true" scheme="https" secure="true"
               clientAuth="false" sslProtocol="TLS"
                            keystoreFile="C:\Java\apache-tomcat-8.0.23\keystore\tomcat"
                    keystorePass="changeit" />
    <Connector port="8009" protocol="AJP/1.3" redirectPort="8443"/>
    <Engine defaultHost="localhost" name="Catalina">
      <Realm className="org.apache.catalina.realm.LockOutRealm">
```