

CONFIGURACIÓN HTTPS

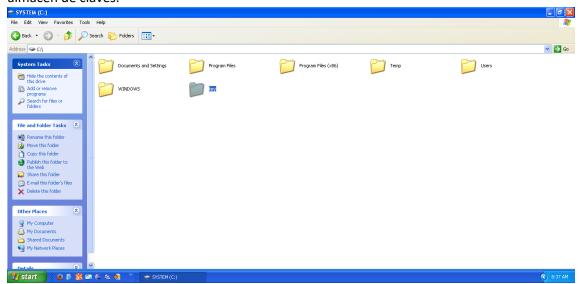
D01



7 DE MARZO DE 2019 GRUPO 11

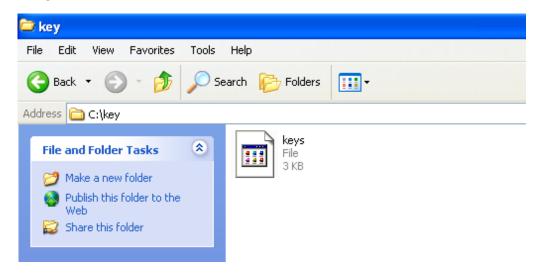
Configuración en Developer:

1. Creamos una carpeta en "C:\" llamada key, que será donde generaremos nuestro almacén de claves.



- 2. Abrimos el terminal cmd y ejecutamos el comando: **keytool -genkey -alias tomcat - keyalg RSA -keystore "C:\key\keys"** y completamos con:
 - Contraseña: acmemadruga
 - localhost
 - localhost
 - localhost
 - ES
 - ES
 - ES
 - Yes
 - acmemadruga

Y se generará nuestro almacén de claves:



- 3. Ahora procederemos a configurar el tomcat por lo que nos vamos a server.xml y añadimos:
- <Connector port="443" protocol="org.apache.coyote.http11.Http11NioProtocol" maxThreads="150" SSLEnabled="true" scheme="https" secure="true" clientAuth="false" sslProtocol="TLS" keystoreFile="C:\key\keys" keystorePass="acmemadruga" />

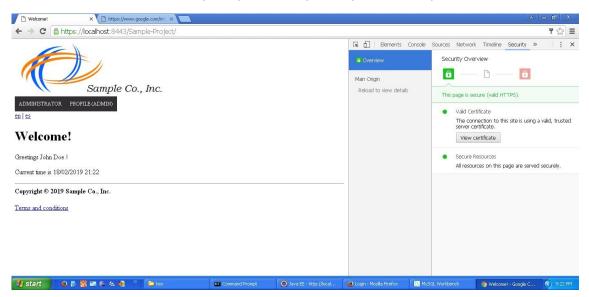
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🦁 Java EE - Servers/Tomcat v7.0 Server at localhost-config/server.xml - Eclipse
File Edit Source Navigate Search Project Run Window Help
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     🛽 server.xml 🖂 🔪
               <Executor name="tomcatThreadPool" namePrefix="catalina-exec-"</pre>
                  maxThreads="150" minSpareThreads="4"/>
<u>66</u>
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(x)=
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               <!-- A "Connector" represents an endpoint by which requests are received
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                    and responses are returned. Documentation at :
       59
                    Java HTTP Connector: /docs/config/http.html (blocking & non-blocking)
       60
                    Java AJP Connector: /docs/config/ajp.html
                    APR (HTTP/AJP) Connector: /docs/apr.html
Define a non-SSL HTTP/1.1 Connector on port 80
 Ð
       61
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 9
               <Connector connectionTimeout="20000" port="80" protocol="HTTP/1.1" redirectPort="443"/>
       64
00
       65
              <Connector port="443" protocol="org.apache.coyote.http11.Http11NioProtocol"</pre>
                       maxThreads="150" SSLEnabled="true" scheme="https" secure="true"
                        clientAuth="false" sslProtocol="TLS" keystoreFile="C:\key\keys"
                       keystorePass="acmemadruga" />
       69
       70
       71
               <!-- A "Connector" using the shared thread pool-->
       72⊖
               21--
       73
               <Connector executor="tomcatThreadPool"
                           port="80" protocol="HTTP/1.1"
       74
                           connectionTimeout="20000"
       75
```

Teniendo en cuenta que ambos puertos sean "443" ya que con el puerto "8443" hemos tenido problemas.

4. El siguiente paso sería irnos a security.xml y añadir requires-channel="https".

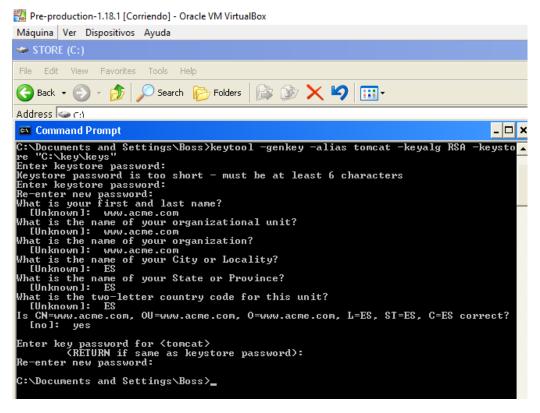
```
🛚 server.xml 🔻 security.xml 🖂
                           <security:intercept-url pattern="/favicon.ico" access="permitAll" />
<security:intercept-url pattern="/saripts/##" access="permitAll" />
<security:intercept-url pattern="/saripts/##" access="permitAll" />
<security:intercept-url pattern="/styles/##" access="permitAll" />
   31
   35
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39
                            <security:intercept-url pattern="/views/misc/index.jsp" access="permitAll" requires-channel="https"/>
                            <security:intercept-url pattern="/security/login.do" access="permitAll" requires-channel="https"/>
<security:intercept-url pattern="/security/loginFailure.do" access="permitAll" />
   40
41
                            <security:intercept-url pattern="/welcome/index.do" access="permitAll"
requires-channel="https"/
<security:intercept-url pattern="/welcome/terms.do" access="permitAll"
requires-channel="https"/5</pre>
   42
43
44
   45
46
47
48
49
50
51
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53
                            <security:intercept-url pattern="/error.do" access="permitAll" requires-channel="https"/>
                            <security:intercept-url pattern="/actor/registerBrotherhood.do" access="isAnonymous()" requires-channel="htt
<security:intercept-url pattern="/actor/registerMember.do" access="isAnonymous()" requires-channel="https"/;</pre>
                           <security:intercept-url pattern="/actor/administrator,brotherhood,member/##" access="isAuthenticated()" />
<security:intercept-url pattern="/actor/administrator/##" access="hasRole('ALMINI')",
<security:intercept-url pattern="/actor/display.do##" access="permitAll" requires-channel="https"/>
<security:intercept-url pattern="/actor/display.do" access="hasRoyRole('ADMIN','BROTHERHOOD','NEMBER')"
requires-channel="https"/>
   54
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                            <security:intercept-url pattern="/area/administrator/##" access="hasRole('ADMIN')" />
<security:intercept-url pattern="/area/display.do##" access="permitAll" />
<security:intercept-url pattern="/brotherhood/brotherhood/selectArea.do"</pre>
                                                       access="hasRole('BROTHERHOOD')" />
```

5. Por último, arrancamos tomcat y comprobamos que use protocolo https.



Configuración en Pre-Production:

- 1. Creamos la carpeta key al igual que en developer.
- 2. Generamos las claves en la carpeta key de la misma forma que en developer con la diferencia de que en vez de localhost pondremos www.acme.com

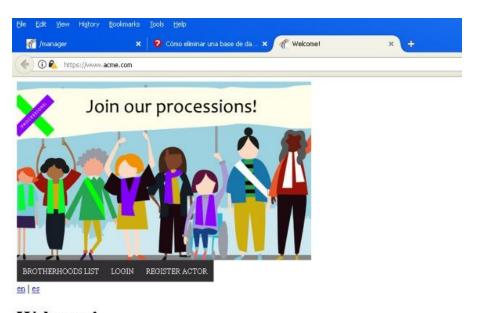


- 3. Para configurar Tomcat nos iremos al archivo server.xml que se encuentra en C:\Program Files\Apache Software Foundation\Tomcat 7.0\conf y añadiremos la siguiente información, cambiando de nuevo el puerto a "443" para evitar errores:
 - <Connector port="443" protocol="HTTP/1.1" maxThreads="150"
 SSLEnabled="true" scheme="https" secure="true" clientAuth="false"
 sslProtocol="TLS" keystoreFile="C:\key\keys" keystorePass="acmemadruga"
 />

4. Por último, reiniciamos el servidor Tomcat desde la aplicación "Monitor Tomcat"



5. Y desplegamos nuestro proyecto como se indicó en la última lección de la asignatura DP1 y accedemos con la url www.acme.com:



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