SECURING YOUR APPLICATION THROUGH HTTPS CHANNEL ON PORT 8443

STEP 1 :

Go to command prompt -> navigate to the tomcat installation directory -> Go into the bin directory -> Issue the following command :

Keytool –genkey -alias tomcat -keyalg RSA -keystore “d:\software and dubs\apache-tomcat-7.0.82\bin\hi”

This will prompt you for some details and a password that can be your own password that you set for the .keystore to be generated and used to route traffic through the HTTPS channel

STEP 2 :

Go to STS and open up tomcat server directory and open up server.xml file that resides within Servers folder and tomcat sub folder.

Uncomment out the lines the denote HTTPS connection through 8443 port and add two more properties to it :

keystoreFIle = “d:\software and dubs\apache-tomcat-7.0.82\bin\hi”

keystorePassword =”Your password that you gave”

STEP 3 : Restart server and check whether the keystore is being loaded from the location that you provided , start the application by going to <http://localhost:8080/FitnessTracker/index.jsp>

This will still work even though we have enabled HTTPS for the application.

But we want to route all traffic to HTTPS , therefore we have to add a property called as

requires-channel=”https” to our security-config.xml to our <intercept-url> tags.

Once that is done , restart the server and you can see that your application , even though you access through http , will be redirected and forced to use HTTPS.

STEP 4 : We needed a certificate in order to use our application through the HTTPS channel , therefore we used a self signed certificate that we created in the first step. Please refrain from doing this in your organization if the organization has a valid certificate authenticated by the company such as VeriSign or any other certificate issuing company.

<http auto-config=*"true"* use-expressions=*"true"*>

<intercept-url pattern=*"/login.html"* access=*"permitAll"* requires-channel=*"https"*/>

<intercept-url pattern=*"/loginFailed.html"* access=*"permitAll"* requires-channel=*"https"* />

<intercept-url pattern=*"/logout.html"* access=*"permitAll"* requires-channel=*"https"* />

<intercept-url pattern=*"/403.html"* access=*"permitAll"* requires-channel=*"https"* />

<intercept-url pattern=*"/405.html"* access=*"permitAll"* requires-channel=*"https"*/>

<intercept-url pattern=*"/\*\*"* access=*"hasRole('ROLE\_USER')"* />

<form-login login-page=*"/login.html"*

authentication-failure-url=*"/loginFailed.html"* />

<logout logout-success-url=*"/logout.html"* />

<access-denied-handler error-page=*"/403.html"* />

<access-denied-handler error-page=*"/405.html"* />

<!-- <http-basic/> To use a basic authentication provided by the browser

for our application. -->

</http>