



# Spring Security using in memory UserService

In this lab, u will be working on 01spring-security-inmemory-start project given to you.

1) Open web.xml and complete TODO-1 by configuring DelegatingFilterProxy as shown below

```
<filter>
  <filter-name>springSecurityFilterChain</filter-name>
  <filter-class>org.springframework.web.filter.DelegatingFilterProxy</filter-class>
</filter>

<filter-mapping>
  <filter-name>springSecurityFilterChain</filter-name>
  <url-pattern>/*</url-pattern>
</filter-mapping>
```

2) open /WEB-INF/security.xml and complete TODO-2 by configuring security:http tag as shown below

```
<security:http auto-config="true" use-expressions="true">
  <security:intercept-url pattern="/**" access="hasRole('ROLE_ADMIN')"/>
  <security:form-login/>
</security:http>
```

3) In security.xml and complete TODO-3 by configuring authentication manager as shown below

```
<security:authentication-manager >
  <security:authentication-provider>
    <security:user-service>
      <security:user name="siva" password="secret" authorities="ROLE_ADMIN"/>
    </security:user-service>
  </security:authentication-provider>
</security:authentication-manager>
```

3) Deploy the application and give a request to /. You should be prompted with a login page. Give wrong credentials and observe that it shows an error message. Now give correct credentials and observe that you are logged in successfully.

4) Can you configure the same application to use Http Basic Authentication instead of Form-based authentication? Try it.



5) Passwords are plain passwords right now. Open PasswordGenerator.java in com.way2learnonline.controllers package and observe the code. Change the code to give your own password and run it. Copy the password into your security.xml.

Now Configure StandardPasswordEncoder as a bean and inject it inside authentication provider  
Your configuration should look like below

```
<security:authentication-manager >
    <security:authentication-provider>
        <security:user-service>
            <security:user name="siva"
                password="c7c9e9d5159fb45860ce8873e3e1ea5d9d4257f3d70839b355558a801934c5875166fcba35eaa69f"
                authorities="ROLE_ADMIN"/>
        </security:user-service>
        <security:password-encoder ref="passwordEncoder" />
    </security:authentication-provider>
</security:authentication-manager>

<bean id="passwordEncoder"
class="org.springframework.security.crypto.password.StandardPasswordEncoder" />
```

6) Deploy the application and try to login!

**Congratulations !! U have Configured your first application using Spring security**