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08: Web.xml interview questions and answers

Posted on May 14, 2015 by Arulkumaran Kumaraswamipillai

Since **servlet 3.0 specification**, the web.xml file in a web application is **optional**. The servlet 3.0 API introduced annotations to register servlets. Learn more at Servlet Interview Questions and Answers.

Q1. What is a web.xml file?

A1. The \$ROOT/WEB-INF/web.xml file is the Web Application Deployment Descriptor of your application. This file is an XML document that defines everything about your application that a web container in the application server needs to know except the context path, which is configured via container specific deployment descriptor file. For example the "context path" for jboss web container is define as shown below in jboss-web.xml file

```
1 <!DOCTYPE jboss-web PUBLIC "-//JBoss//DTD Web Ap
2 <jboss-web>
```

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"/my-enterprise-ws" is the context root. So, you will access your application something like

```
1 http://localhost:8180/my-enterprise-ws/blah
```

Q2. Can you list some of the entries a typical web.xml file will have?

Q2.

1) **Servlets**: For a Java servlet to be accessible from a browser, you must tell the servlet container what servlets to deploy, and what URL's to map the servlets to. This is done in the web.xml file of your Java web application.

and then in a browser you can access the servlet as

```
1 http://localhost:8180/my-enterprise-ws/logback-st
```

2. Context parameters: You can also set some context parameters which can be read from all servlets in your application.

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and it will be referred in the logback framework/library as

3) Servlet filters: A Servlet filter is an object that can intercept HTTP requests targeted at your web application. Servlet Filter is used for monitoring request and response from client to the servlet, or to modify the request and response, or to audit and log.

```
<filter>
2
       <filter-name>UrlRewriteFilter</filter-name>
3
       <filter-class>org.tuckey.web.filters.urlrewr
   </filter>
5
   <filter>
6
       <filter-name>Seam Filter</filter-name>
       <filter-class>org.jboss.seam.servlet.SeamFil
8
   </filter>
9
   <filter>
10
       <filter-name>Request Logging Filter</filter-</pre>
11
       <filter-class>com.myapp.filter.RequestLoggin
12
       <init-param>
13
            <param-name>excluded</param-name>
14
            <param-value>.js,css,javax.faces.resourc
15
       </init-param>
16 </filter>
```

4) Servlet listeners: Servlet Listener is used for listening to events in a web containers, such as when you create a session, or place an attribute in an session or if you passivate and activate in another container, to subscribe to these events you can configure listener in web.xml. With listeners you can track application-level, session-level, life-cycle changes, attribute changes etc.

```
package com.myapp.logging;
public class LogbackConfigListener implements Se
    @Override
```

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```

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```

5) Resource mappings: The idea is that specifying resources in the web.xml has the advantage of separating the developer role from the deployer role. Let's say you want to lookup java:comp/env/jdbc/dataSource/mydb, the container finds that web.xml has a <resource-ref&gy; element for jdbc/dataSource/mydb and it returns the object registered under the name of jdbc/dataSource/maindb.

6) Security: The web.xml is the most important Java EE configuration piece allowing configuration of web container security.

BASIC authentication

FORM based authentication

Access control and constraints

```
<security-constraint>
2
      <display-name>excluded</display-name>
3
      <web-resource-collection>
4
          <web-resource-name>No Access</web-resource</pre>
5
          <url-pattern>/excluded/*</url-pattern>
6
          <url-pattern>/restricted/customer/excluded
7
          <url-pattern>/restricted/owner/excluded/*<</pre>
8
      </web-resource-collection>
9
      <web-resource-collection>
10
          <web-resource-name>No Access</web-resource</pre>
11
          <url-pattern>/restricted/*</url-pattern>
12
          <http-method>DELETE</http-method>
13
         <http-method>PUT</http-method>
14
         <http-method>HEAD</http-method>
15
         <http-method>OPTIONS</http-method>
16
         <http-method>TRACE</http-method>
17
         <http-method>GET</http-method>
18
          <http-method>POST</http-method>
19
      </web-resource-collection>
20
      <auth-constraint />
21
      <user-data-constraint>
22
          <transport-guarantee>NONE</transport-guara
23
      </user-data-constraint>
24 </security-constraint>
```

Q3. What are basic steps involved in bootstrapping Spring & Logback with the web container?

A3. Start with the web.xml

Step 1: web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
23
   <web-app version="2.5" xmlns="http://java.sun.col</pre>
       xsi:schemaLocation="http://java.sun.com/xml/
4
5
       <display-name>Myapp Enterprise Service</disp</pre>
6
7
       <context-param>
8
            <param-name>logbackConfigLocation</param</pre>
9
            <param-value>classpath:myapp-enterprise-
10
       </context-param>
11
12
       <context-param>
13
            <param-name>logbackExposeWebAppRoot</par</pre>
14
            <param-value>false</param-value>
15
       </context-param>
16
17
       <!-- Spring logback configuration listener
18
       tener>
19
            <listener-class> com.myapp.logging.Logba
20
       </listener>
21
22
       <servlet>
23
            <servlet-name>myapp-enterprise-endpoint<</pre>
24
            <servlet-class>org.springframework.web.s
25
            <init-param>
26
                <param-name>contextClass</param-name</pre>
27
                <param-value>org.springframework.web
```

```
28
            </init-param>
29
            <init-param>
30
                <param-name>contextConfigLocation
31
                <param-value>com.myapp.myapp.configu
32
            </init-param>
33
            <init-param>
34
                <param-name>contextInitializerClasse
35
                <param-value>com.myapp.myapp.Enterpr
36
            </init-param>
37
            <load-on-startup>1</load-on-startup>
38
       </servlet>
39
40
       <servlet-mappina>
41
            <servlet-name>myapp-enterprise-endpoint<</pre>
42
            <url-pattern>/*</url-pattern>
43
       </servlet-mapping>
44
45
       <servlet>
46
            <servlet-name>logback-status</servlet-na</pre>
47
            <servlet-class>ch.gos.logback.classic.Vi
48
       </servlet>
49
50
       <servlet-mapping>
51
            <servlet-name>logback-status</servlet-na</pre>
52
            <url-pattern>/logback-status</url-patter</pre>
53
       </servlet-mapping>
54 </web-app>
```

Step 2: Define the Java classes wired up above like "LogbackConfigListener", "MyAppEnterpriseEndpointConfiguration", and MyAppEnterpriseApplicationContextInitializer.

```
public class LogbackConfigListener implements Se
3
4
       @Override
5
       public void contextDestroyed(final ServletCo
6
          //logic
7
8
9
       @Override
10
       public void contextInitialized(final Servlet
11
           //logic
12
13 }
```

```
@Configuration
3
   @EnableWebMvc
  @ComponentScan("com.myapp.endpoint")
5
   public class MyAppEnterpriseEndpointConfiguratio
6
7
       @Override
8
       public void configureMessageConverters(final
9
           converters.add(new Jaxb2RootElementHttpM
10
11
           final MappingJackson2HttpMessageConverte
           jsonConverter.setObjectMapper(objectMapp)
```

```
converters.add(isonConverter);
13
14
       }
15
16
       @Bean
17
       public ObjectMapper objectMapper() {
18
           final ObjectMapper objectMapper = new Ob
19
           objectMapper.registerModule(new JodaModu
20
           return objectMapper;
21
22
```

```
<del>//</del>....
3
   public class MyAppEnterpriseApplicationContextIn
4
       ApplicationContextInitializer<ConfigurableAp
5
6
       public static final String DEFAULT_APPLICATI
8
       private static final Logger LOG = LoggerFact
9
10
       @Override
11
       public void initialize(final ConfigurableApp)
12
            final ConfigurableEnvironment environmen
13
            final MutablePropertySources propertySou
14
            propertySources.addAfter(SYSTEM_ENVIRONM
15
16
17
       protected PropertySource<?> getApplicationPr
18
            try
19
                final Resource propertiesResource =
20
                final ResourcePropertySource propert
                LOG.info("Configured application pro return propertySource;
21
22
23
            } catch (final IOException ex) {
24
                throw new RuntimeException("Unable t
25
                     + DEFAULT_APPLICATION_PROPERTIES
26
            }
27
       }
28 }
```

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