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Spring IO tutorial in 6 steps

Posted on November 22, 2015 by Arulkumaran Kumaraswamipillai

Spring IO Platform is all about "list of dependencies and their **versions** that work well together". It is implemented as a Maven POM file via Maven Bill-of-Materials dependency that you can import into your projects to set the versions for dependencies. **Spring Boot** is built on top of the "**Spring IO**" platform. Spring Boot makes it easy to create **stand-alone**, **production-grade** Spring applications that you can just run as covered in "Simple Spring Boot Tutorial in 8 steps" and Simple Spring Boot Restful Web Service Tutorial.

Step 1: Create a simple maven project using the maven "archetype" plugin.

1 mvn archetype:generate -DgroupId=com.mytutorial -

Step 2: import it into eclipse by choosing File -> Import -> Maven -> Existing Maven projects and select the folder "simple-spring-io" you had just created with Maven.

Step 3: Modify the **pom.xml** file to as shown below. As you can see after adding "platform-pom", you don't need to

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 - 04 ♦ 17 Spring b
- --05: ♦ 9 Spring Be
 - 06: ♥ Debugging
 - -07: Debugging S

specify the version XML tag for "junit".

```
3
       xsi:schemaLocation="http://maven.apache.org/
4
       <modelVersion>4.0.0</modelVersion>
5
       <groupId>com.mytutorial
6
       <artifactId>simple-io</artifactId>
       <packaging>jar</packaging>
<version>1.0-SNAPSHOT</version>
8
9
       <name>simple-io</name>
10
       <url>http://maven.apache.org</url>
11
12
       <dependencyManagement>
13
           <dependencies>
14
               <dependency>
15
                   <groupId>io.spring.platform</gro</pre>
16
                   <artifactId>platform-bom</artifa</pre>
17
                   <version>2.0.0.RELEASE
18
                   <type>pom</type>
19
                   <scope>import</scope>
20
               </dependency>
21
           </dependencies>
22
       </dependencyManagement>
23
24
25
       <dependencies>
26
           <dependency>
27
               <groupId>junit
28
               <artifactId>junit</artifactId>
29
               <scope>test</scope>
30
           </dependency>
31
       </dependencies>
32
  </project>
33
```

The following dependencies will be added when you execute: "mvn clean package"

```
■ Maven Dependencies

■ init-4.12.jar - /Users/arulk/.m2/repository/junit/junit/4.12

■ init-4.12.jar - /Users/arulk/.m2/repository/org/hamcrest/hamcrest-core/1.3

Spring IO BOM adds following dependency jars.
```

Step 4: Add a Spring dependency to the pom.xml file as shown below

```
1
2 <project xmlns="http://maven.apache.org/POM/4.0.
3     xsi:schemaLocation="http://maven.apache.org/
4     <modelVersion>4.0.0</modelVersion>
5     <groupId>com.mytutorial</groupId>
6     <artifactId>simple-io</artifactId>
```

```
Spring loading p

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```
<packaging>jar</packaging>
8
       <version>1.0-SNAPSHOT</version>
9
       <name>simple-io</name>
10
       <url>http://maven.apache.org</url>
11
12
       <dependencyManagement>
13
            <dependencies>
14
                <dependency>
15
                     <groupId>io.spring.platform</gro</pre>
16
                     <artifactId>platform-bom</artifa</pre>
17
                     <version>2.0.0.RELEASE</version>
18
                     <type>pom</type>
19
                     <scope>import</scope>
20
                </dependency>
21
            </dependencies>
22
       </dependencyManagement>
23
24
25
       <dependencies>
26
            <dependency>
27
                <groupId>junit</groupId>
28
                <artifactId>junit</artifactId>
29
                <scope>test</scope>
30
            </dependency>
31
32
            <dependency>
33
                <groupId>org.springframework</groupI</pre>
34
                <artifactId>spring-context-support
35
            </dependency>
36
       </dependencies>
37
   </project>
```

The following dependencies will be added when you execute: "mvn clean package"

```
    ▼ Maven Dependencies
    □ ijunit-4.12.jar - /Users/arulk/.m2/repository/junit/junit/4.12
    □ ijunit-4.12.jar - /Users/arulk/.m2/repository/jorg/hamcrest/hamcrest-core/1.3
    □ ijunit-4.12.jar - /Users/arulk/.m2/repository/org/springframework/spring-context-support/4.2.3.RELEASE
    □ ijunit-4.2.3.RELEASE
    □ ijunit-5.2.3.RELEASE
    □ ijunit-5.2.3.RELEASE
```

Step 5: Now to bring in the "Spring Data JPA" dependencies, you can add the following without any versions.

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```
<version>1.0-SNAPSHOT</version>
9
       <name>simple-io</name>
10
       <url>http://maven.apache.org</url>
11
12
       <dependencyManagement>
13
           <dependencies>
14
                <dependency>
15
                    <groupId>io.spring.platform</gro</pre>
                    <artifactId>platform-bom</artifa</pre>
16
17
                    <version>2.0.0.RELEASE
18
                    <type>pom</type>
19
                    <scope>import</scope>
20
                </dependency>
21
           </dependencies>
22
       </dependencyManagement>
23
24
       <dependencies>
25
           <dependency>
26
                <groupId>junit
27
                <artifactId>junit</artifactId>
28
                <scope>test</scope>
29
           </dependency>
30
31
           <dependency>
32
                <groupId>org.springframework</qroupI</pre>
33
                <artifactId>spring-context-support
34
           </dependency>
35
36
           <!-- Database (H2) -->
37
           <dependency>
38
                <groupId>com.h2database
39
                <artifactId>h2</artifactId>
40
           </dependency>
41
42
           <!-- DataSource (HikariCP) -->
43
           <dependency>
44
                <groupId>com.zaxxer</groupId>
45
                <artifactId>HikariCP</artifactId>
46
           </dependency>
47
           <!-- JPA Provider (Hibernate) -->
48
49
           <dependency>
50
                <groupId>org.hibernate
51
                <artifactId>hibernate-entitymanager<</pre>
52
           </dependency>
53
54
           <!-- Spring Data JPA -->
55
           <dependency>
56
                <groupId>org.springframework.data
57
                <artifactId>spring-data-jpa</artifac
58
           </dependency>
59
       </dependencies>
60 </project>
61
```

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The following dependencies will be added when you execute: "mvn clean package"

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```
Maven Dependencies

| mint-4.12.jar - | Usersjarulik|.m2/repository/ginht/junit/4.12| |
| mancrest-core-1.3.jar - | Usersjarulik|.m2/repository/orghamcrest/hamcrest-core/1.3|
| pancrest-core-1.3.jar - | Usersjarulik|.m2/repository/orghamcrest/hamcrest-core/1.3|
| pancrest-core-1.3.jar - | Usersjarulik|.m2/repository/orghamcrest/hamcrest-core/1.3|
| pancrest-core-1.3.jar - | Usersjarulik|.m2/repository/orghamcrest/hamcrest-core-1.3|
| pancrest-core-1.3.jar - | Userslarulik|.m2/repository/orghamcrest/hamcrest-core-1.3|
| pancrest-core-1.3.jar - | Userslarulik|.m2/repository/orghamcrest/hamcrest-core-1.4.2.3.RELEASE|
| paring-context-4.2.3.RELEASE.jar - | Userslarulik|.m2/repository/orghamcrest/hamcrest-core-1.4.2.3.RELEASE|
| paring-core-4.2.3.RELEASE.jar - | Userslarulik|.m2/repository/orghamcrest/hamcrest-core-1.4.2.3.RELEASE|
| paring-core-4.2.3.RELEASE.jar - | Userslarulik|.m2/repository/orghamcrest/hamcrest-core-1.4.2.3.RELEASE|
| paring-expression-4.2.3.RELEASE.jar - | Userslarulik|.m2/repository/orghamcrest-core-1.4.2.3.RELEASE|
| paring-expression-4.2.3.RELEASE.jar - | Userslarulik|.m2/repository/orghamcrest-core-1.4.2.3.RELEASE|
| paring-expression-4.2.3.RELEASE.jar - | Userslarulik|.m2/repository/orghamcrest-core-1.4.2.3.RELEASE|
| paring-expression-4.2.3.RELEASE.jar - | Userslarulik|.m2/repository/orghamcrest-core-1.4.3.3.RELEASE|
| paring-expression-4.2.3.RELEASE|.jar - | Userslarulik|.m2/repository/orghamcrest-core-1.4.3.3.RELEASE|
| paring-data-jan-1.0.0.2.jar - | Userslarulik|.m2/repository/orghamcrest-core-1.4.3.RELEASE|.jar - | Userslarulik|.m2/repository/orghamcrest-core-1.4.3.RELEASE|.jar - | Userslarulik|.m2/repository/orghamcrest-core-1.4.3.RELEASE|.jar-1.jar-1.1.4.RELEASE|.jar-1.1.4.R
```

Step 6: To bring in the web dependencies

```
1
2 <!-- Spring Web -->
3 <dependency>
4 <groupId>org.springframework</groupId>
5 <artifactId>spring-webmvc</artifactId>
6 </dependency>
7
```

The following web dependencies will be included when you execute: "mvn clean package"

```
spring-webmvc-4.2.3.RELEASE.jar - /Use
spring-expression-4.2.3.RELEASE.jar - /L
spring-web-4.2.3.RELEASE.jar - /Users/a
Spring web dependencies added with Spring
IO BOM
```

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