

# Lab 2 - Deploying a Web Application with an Embedded Container

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## Build and Run with Embedded Apache Tomcat

Spring Boot will embed Apache Tomcat by default.

1. Change to the lab directory (or continue to build off of lab01):

```
$ cd $COURSE_HOME/day_01/session_01/lab_02/initial/hello-spring-boot
```

2. Build the application:

```
$ mvn package
```

3. Run the application:

```
$ java -jar target/hello-spring-boot-0.0.1-SNAPSHOT.jar
```

You should see the application start up an embedded Apache Tomcat server on port 8080:

```
2015-05-03 13:20:51.690 INFO 2465 --- [main] s.b.c.e.t.TomcatEmbeddedServletContainer : Tomcat
started on port(s): 8080 (http)
2015-05-03 13:20:51.691 INFO 2465 --- [main] i.p.s.hello.HelloSpringBootApplication : Started
HelloSpringBootApplication in 3.023 seconds (JVM running for 3.432)
```

4. Visit the application in the browser (<http://localhost:8080>), and you should see the following:

```
Hello World!
```

## Build and Run with Embedded Eclipse Jetty

Spring Boot also supports embedding a Jetty server.

1. Open `pom.xml` and replace the following:

```
<dependency>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-starter-web</artifactId>
</dependency>
```

with:

```
<dependency>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-starter-web</artifactId>
  <exclusions>
    <exclusion>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-tomcat</artifactId>
    </exclusion>
  </exclusions>
</dependency>
<dependency>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-starter-jetty</artifactId>
</dependency>
```

## 2. Build the application:

```
$ mvn package
```

## 3. Run the application:

```
$ java -jar target/hello-spring-boot-0.0.1-SNAPSHOT.jar
```

You should see the application start up an embedded Jetty server on port 8080:

```
2015-05-03 13:26:31.370 INFO 3078 --- [          main] .s.b.c.e.j.JettyEmbeddedServletContainer : Jetty
started on port(s) 8080 (http/1.1)
2015-05-03 13:26:31.371 INFO 3078 --- [          main] i.p.s.hello.HelloSpringBootApplication : Started
HelloSpringBootApplication in 3.671 seconds (JVM running for 4.079)
```

## 4. Visit the application in the browser (<http://localhost:8080>), and you should see the following:

```
Hello World!
```

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