Spring Boot Getting Started

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Estimated time: 25 minutes

Requirements

Lab Requirements (/spring-boot-primer/labs-setup)

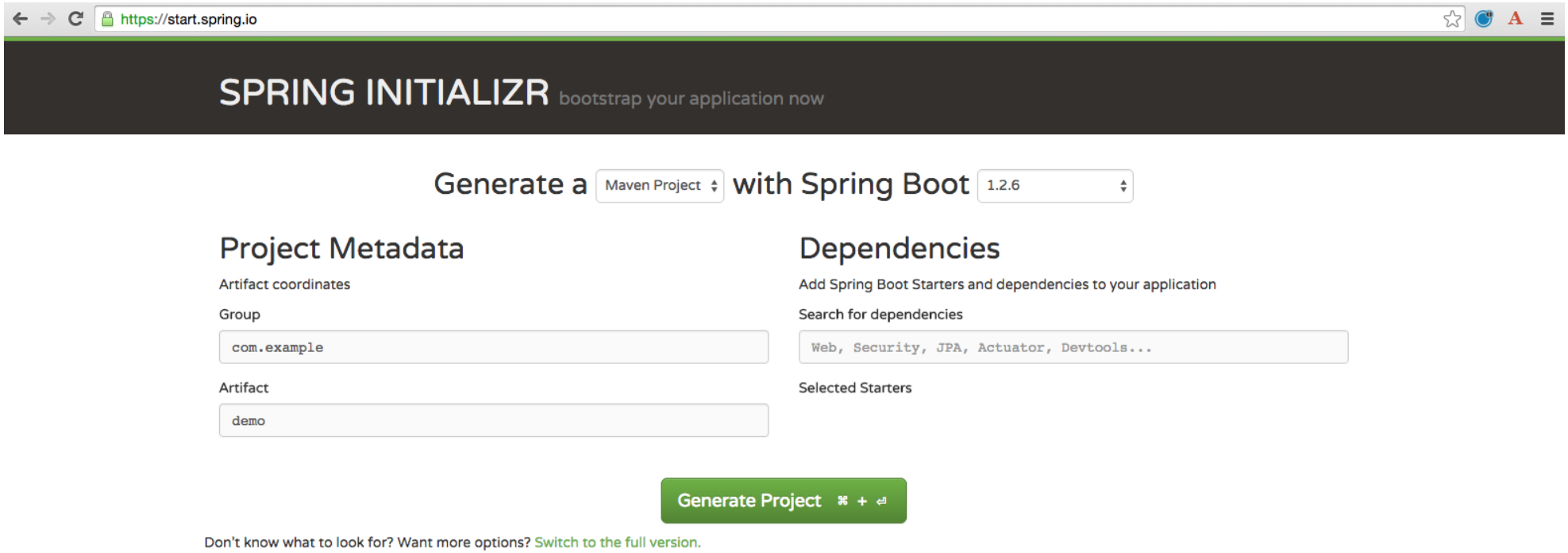
What You Will Learn

- How to create a Spring Boot Project

Exercises

Create A Spring Boot Project

1) Browse to https://start.spring.io/ (https://start.spring.io/)



Fill Out the Form Accordingly:

2) Generate a `Maven Project` with Spring Boot `1.3` (if this version is unavailable then get the latest 1.3.X version, but no SNAPSHOTS).

3) In the **Project Metadata** section, add the following:

Group

```
io.pivotal
```

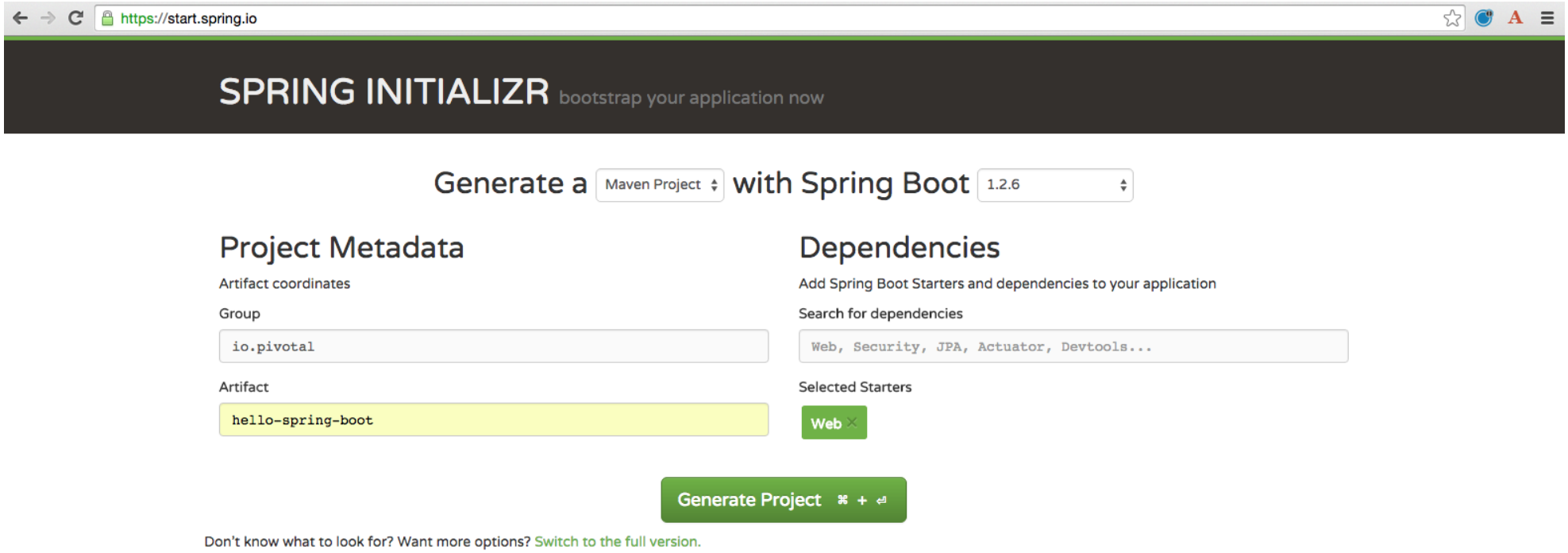
Artifact

```
hello-spring-boot
```

4) In the **Dependencies** section, add the following:

- `Web`

Completed Form:



5) Click the Generate Project button. Your browser will download a zip file. Unpack that zip file into the repos directory (`$REPOS_HOME`). If you don't know what `$REPOS_HOME` is then go back and do the setup (../labs-setup).

6) Import the project's `pom.xml` into your editor/IDE of choice.

STS Import Help:

Select File > Import… Then select Maven > Existing Maven Projects. On the Import Maven Projects page, browse to your `$REPOS_HOME/hello-spring-boot` (e.g. `~/repos/hello-spring-boot`).

Add an Endpoint

1) Add a `@RestController` annotation to the class `io.pivotal.HelloSpringBootApplication` (`$REPOS_HOME/hello-spring-boot/src/main/java/io/pivotal/HelloSpringBootApplication.java`).

```
package io.pivotal;

import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.web.bind.annotation.RestController;

@SpringBootApplication
@RestController
public class HelloSpringBootApplication {

    public static void main(String[] args) {
        SpringApplication.run(HelloSpringBootApplication.class, args);
    }
}
```

STS Shortcut Help:

Need help adding an import?

Use the `organize imports` command:

- **PC:** Ctrl + Shift + O
- **Mac:** Cmd + Shift + O

Not sure how to resolve the problem STS is reporting?

Try the `quick-fix` (magic shortcut) command:

- **PC:** Ctrl + 1
- **Mac:** Cmd + 1

Other helpful shortcuts (https://blog.codecentric.de/en/2012/08/my-top-10-shortcuts-for-eclipse-on-mac-os-x-and-windows-and-how-you-survive-the-change-from-windows-to-mac/).

2) Add the following request handler to the class `io.pivotal.HelloSpringBootApplication` (`$REPOS_HOME/hello-spring-boot/src/main/java/io/pivotal/HelloSpringBootApplication.java`).

```
@RequestMapping("/")
public String hello() {
    return "Hello World!";
}
```

Completed:

```
package io.pivotal;

import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;

@SpringBootApplication
@RestController
public class HelloSpringBootApplication {

    public static void main(String[] args) {
        SpringApplication.run(HelloSpringBootApplication.class, args);
    }

    @RequestMapping("/")
    public String hello() {
        return "Hello World!";
    }
}
```

Run the `hello-spring-boot` Application

1) Open a terminal window and change to `hello-spring-boot` directory:

```
$ cd $REPOS_HOME/hello-spring-boot
```

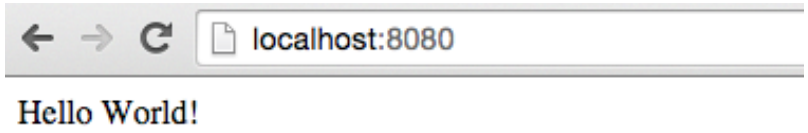
2) Run the application

```
mvn clean spring-boot:run
```

3) You should see the application start up an embedded Apache Tomcat server on port 8080 (review terminal output):

```
2015-10-02 13:26:59.264  INFO 44749 --- [lication.main()] s.b.c.e.t.TomcatEmbeddedServletCon
tainer : Tomcat started on port(s): 8080 (http)
2015-10-02 13:26:59.267  INFO 44749 --- [lication.main()] io.pivotal.hello.HelloSpringBootAp
plication     : Started HelloSpringBootApplication in 2.541 seconds (JVM running for 9.141)
```

4) Browse to: http://localhost:8080/ (http://localhost:8080/)



5) Stop the `hello-spring-boot` application. In the terminal window: `Ctrl + C`

Congratulations! You've just completed your first Spring Boot application.

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