**Spring Boot**

**Setup Instructions**

**Overview**

Each student machine, and the instructor machine, must be set up as follows:

* Course materials
* Java SE 21 JDK
* IntelliJ IDEA (Ultimate edition)
* Docker

**Course materials setup**

1. Unzip **spring-boot-dev.zip**
2. Unzip **Slides.zip** or **SlidesPDF.zip**
3. Unzip **Labdocs.zip** or **LabdocsPDF.zip**

**To download and install Java SE 21 JDK**

1. Browse to [**https://www.oracle.com/java/technologies/**](https://www.oracle.com/java/technologies/)
2. In the Newest Downloads section, click the **Java SE 21.xxxx (LTS)** link.
3. In the Java SE Development Kit 21.xxxx page, click the appropriate tab for your operating system (e.g., Windows), and then click the appropriate link to commence download (e.g., for Windows, click the link for **jdk-21\_windows-x64\_bin.exe**.
4. You may be asked to sign in using an Oracle user name and password (if you don't have an Oracle account, click **Sign Up**).
5. After the download is complete, run the JDK Installer.
6. Follow the instructions in the Installer, accepting all defaults, to install the JDK.
7. Set the following environment variables:
   * Set the **JAVA\_HOME** environment variable so that it points to the JDK installation folder.
   * Edit the **PATH** environment variable so that the first location in the path is the Java bin folder.

**To download / install IntelliJ IDEA**

1. Browse to <https://www.jetbrains.com/idea/download/> and click one of the **Download** buttons, to download the *Ultimate edition*.
2. Complete the steps to install the Ultimate edition (you can install a free 30-day trial if you don’t already have a licence).

**To download and install Docker (e.g., for Windows)**

1. Browse to <https://hub.docker.com/editions/community/docker-ce-desktop-windows>.
2. Click the **Get Docker Desktop** button, to download the installer.
3. When the installer has completely downloaded, run it.
4. When the installation is complete, click the **Close** button.
5. Docker does not start automatically after installation, so you must run it manually. To do this, hit the "Window" button and run **Docker Desktop**.
6. Give Docker a few minutes to get started. Then test it's working as follows:
   * Open a Command Prompt window.
   * Run the command **docker --version**. It should display a message such as the following:

