(/)

Spring Boot with Docker

This guide walks you through the process of building a Docker (https://docker.com) image for running a Spring Boot application.

What you'll build

Docker (https://docker.com) is a Linux container management toolkit with a "social" aspect, allowing users to publish container images and consume those published by others. A Docker image is a recipe for running a containerized process, and in this guide we will build one for a simple Spring boot application.

> There is also a Topical Guide on Docker (https://spring.io/guides/topicals/spring-boot-docker), which covers a wider range of choices that we have here, and in much more detail.

What you'll need

- About 15 minutes
- A favorite text editor or IDE
- JDK 1.8 (http://www.oracle.com/technetwork/java/javase/downloads/index.html) or later
- Gradle 4+ (http://www.gradle.org/downloads) or Maven 3.2+ (https://maven.apache.org/download.cgi)
- You can also import the code straight into your IDE:
  - Spring Tool Suite (STS) (/guides/gs/sts)
  - IntelliJ IDEA (/guides/gs/intellij-idea/)

If you are NOT using a Linux machine, you will need a virtualized server. By installing VirtualBox, other tools like the Mac's boot2docker, can seamlessly manage it for you. Visit VirtualBox's download site (https://www.virtualbox.org/wiki/Downloads) and pick the version for your machine. Download and install. Don't worry about actually running it.

You will also need Docker (https://docker.com), which only runs on 64-bit machines. See https://docs.docker.com/installation/#installation (https://docs.docker.com/installation/#installation) for details on setting Docker up for your machine. Before proceeding further, verify you can run `docker` commands from the shell. If you are using boot2docker you need to run that **first**.