

Spring Boot with Docker Container

1. Spring Core

- Introduction to IOC
- Types of DI
 - Setter VS Constructor

2. Spring MVC

- Introduction to Spring MVC
- Handler Mapping
- Controllers
- Views
- Form tags

3. Introduction to Spring Boot

- Intro to Spring Boot - What is Spring Boot and What It Does
- Spring Boot Hello World / Spring Application
- Download and Install STS IDE
- Brief maven Overview
- Configuration
- Spring Boot Annotations
 - SpringApplication
 - EnableAutoConfiguration
 - SpringBootConfiguration
- Embedded server and its uses
- What is Spring Boot Actuator

4. RESTFUL WEB SERVICES

- REST Overview (Characteristics/Capabilities, URI Templates)
- REST and Spring MVC
- Spring support for REST

- @RequestMapping/@PathVariable, @RequestBody, @ResponseBody, HTTP Method conversion
- URI Templates and @PathVariable

5. Accessing Data with Spring Boot and Database Support

- Data Access Introduction
- Spring Boot's JPA Support - spring-boot-starter-data-jpa

6. SPRING MICROSERVICES

- Implement the microservices
- Microservices communication

7. Docker

- Preparing Spring boot App for Container Image
- Publish Image to Container