**Reactive Spring Boot**

* This training assumes no prior knowledge of Spring Boot and Spring Cloud, but assumes strong working knowledge of the following:
* Spring Core - Dependency Injection, XML, Annotation and Java Config, ApplicationContext
* Resource Configurations, Datasources etc
* Spring MVC and RESTful Services
* Java 8 New Features

**Note :** If these pre-requisites are not being met, it is strongly recommended to go through Core Spring training first or the duration needs to increase

**Recommended Learning Resources:**

* Spring Reference Documentation.

**Software& Hardware requirements:**

* **Pentium iSeries with 8GB RAM and sufficient HDD space (Free 10GB+)**
* Java JDK 1.8
* Eclipse for JEE [Photon] along with Spring Tool Suite installed
* Pivotal CF account (Optional)
* MySql database
* Rabbit MQ
* Docker Toolbox installed
* A reliable and unrestricted internet connection (Must let you download JARs and Zips from remote sites)

**Duration: 3 Days**

**Introduction to Spring Boot**

Spring Boot

Spring Applications

Spring Boot to the Rescue

Why Spring Boot?

Spring Boot Features

**Your First Spring Boot Application**

Installing Spring Boot CLI

Spring Boot with Maven

Spring Boot Using External Tools

Spring Boot Using the Spring Initializr

Using the Spring Initializr with UNIX cURL

Spring Boot Using Spring Tool Suite (STS)

Your First Spring Boot Application

How Spring Boot Works

**Spring Boot Auto-Confi guration, Features, and More**

Auto-Confi guration

Disabling a Specifi c Auto-Configuration

@EnableAutoConfiguration and @Enable<Technology> Annotations

Spring Boot Features

SpringApplication Class

SpringApplicationBuilder

Application Arguments

ApplicationRunner and CommandLineRunner

Application Configuration

Configuration Properties Examples

Custom Properties Prefix

**Spring Boot CLI**

Spring Boot CLI

The run Command

The test Command

The grab Command

The jar Command

The war Command

The install Command

The uninstall Command

The init Command

The shell Command

The help Command

**Web Development with Spring Boot**

Spring MVC

Spring Boot Web Applications

Playing with the HAL Browser

**Reactive Spring Boot - Introduction**

Reactive Spring Boot: Introduction

**Functional Spring**

Introduction to Kotlin

Functional Spring with Java

Functional Spring with Kotlin

**Data**

Reactive data access

Write data to the database

**Reactive Web Apps**

Spring MVC-style controllers

Functional Reactive Endpoints in Java

Functional Reactive Endpoints in Kotlin

**Reactive Streams Redux**

Reactive Streams specification

Processing data with Akka Actors

**Testing**

Virtualizing time

Testing remote web calls

**Integration**

Reactive Spring Integration

Spring Cloud Stream

**Spring Boot Actuator**

Spring Boot Actuator

/actuator

/autoconfi g

/beans

/confi gprops

/docs

/dump

env

/fl yway

/health

/info

/liquibase

/logfi le

/metrics

/mappings

/shutdown

/trace