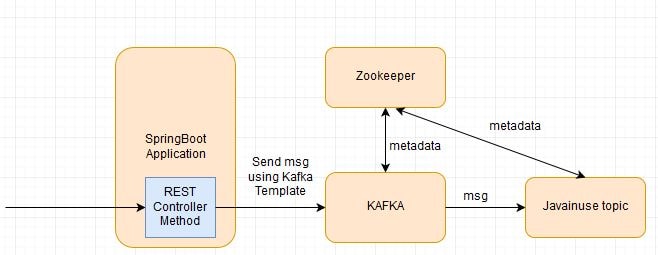
**Spring Boot + Apache Kafka Hello World Example**

In this post we will integrate Spring Boot and Apache Kafka instance.  
[In a previous post](https://www.javainuse.com/misc/apache-kafka-hello-world) we had seen how to get Apache Kafka up and running.  
  


The project will be as follows-  
  
Define the pom.xml as follows- Add the **spring-kafka** dependency.

<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">

<modelVersion>4.0.0</modelVersion>

<groupId>com.javainuse</groupId>

<artifactId>SpringBootApacheKafkaHelloWorld</artifactId>

<version>0.0.1-SNAPSHOT</version>

<packaging>jar</packaging>

<parent>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-parent</artifactId>

<version>1.5.3.RELEASE</version>

<relativePath/>

</parent>

<properties>

<project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>

<project.reporting.outputEncoding>UTF-8</project.reporting.outputEncoding>

<java.version>1.8</java.version>

</properties>

<dependencies>

**<dependency>**

**<groupId>org.springframework.kafka</groupId>**

**<artifactId>spring-kafka</artifactId>**

**</dependency>**

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-web</artifactId>

</dependency>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-test</artifactId>

<scope>test</scope>

</dependency>

</dependencies>

<build>

<plugins>

<plugin>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-maven-plugin</artifactId>

</plugin>

</plugins>

</build>

</project>

Define the KafkaSender class to send message to the kafka topic named as java\_in\_use-topic.

package com.javainuse.service;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.kafka.core.KafkaTemplate;

import org.springframework.stereotype.Service;

@Service

public class KafkaSender {

@Autowired

private KafkaTemplate<String, String> kafkaTemplate;

String kafkaTopic = "java\_in\_use\_topic";

public void send(String message) {

kafkaTemplate.send(kafkaTopic, message);

}

}

Define a Controller which will pass the message and trigger the send message to the Kafka Topic using the KafkaSender class.

package com.javainuse.controller;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.web.bind.annotation.GetMapping;

import org.springframework.web.bind.annotation.RequestMapping;

import org.springframework.web.bind.annotation.RequestParam;

import org.springframework.web.bind.annotation.RestController;

import com.javainuse.service.KafkaSender;

@RestController

@RequestMapping(value = "/javainuse-kafka/")

public class ApacheKafkaWebController {

@Autowired

KafkaSender kafkaSender;

@GetMapping(value = "/producer")

public String producer(@RequestParam("message") String message) {

kafkaSender.send(message);

return "Message sent to the Kafka Topic java\_in\_use\_topic Successfully";

}

}

Finally Define the Spring Boot Class with @SpringBootApplication annotation

package com.javainuse;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class SpringBootHelloWorldApplication {

public static void main(String[] args) {

SpringApplication.run(

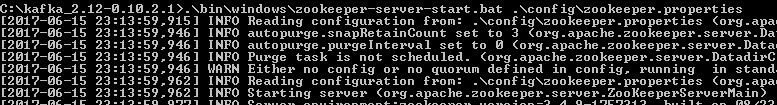
new Object[] { SpringBootHelloWorldApplication.class }, args);

}

}

We are done with the required Java code. Now lets start Apache Kafka. As we had explained in detail in the [Getting started with Apache Kafka](https://www.javainuse.com/misc/apache-kafka-hello-world) perform the following.

* Start Apache Zookeeper-
* C:\kafka\_2.12-0.10.2.1>.\bin\windows\zookeeper-server-start.bat .\config\zookeeper.properties



* Start Apache Kafka-
* C:\kafka\_2.12-0.10.2.1>.\bin\windows\kafka-server-start.bat .\config\server.properties



* Next start the Spring Boot Application by running it as a Java Application.
* Also Start the consumer listening to the java\_in\_use\_topic-
* C:\kafka\_2.12-0.10.2.1>.\bin\windows\kafka-console-consumer.bat --bootstrap-server localhost:9092 --topic java\_in\_use\_topic --from-beginning

* Finally hit the url as follows- http://localhost:8080//javainuse-kafka/producer?message=test  
  
* This will trigger the message to be sent to the java\_in\_use\_topic. We can see in the consumer started the message is recieved.  
  Spring Boot Apache Kafka Consume