



How to start Spring Kafka Application with Spring Boot

The **Spring Apache Kafka** (spring-kafka) provides a high-level abstraction for Kafka-based messaging solutions. And in the previous <u>post</u>, We had developed a **Spring Kafka Application** with the **auto-configuration** supported by SpringBoot (from version **1.5**). But when we need explicitly configure **Kafka factories** (**Kafka Producer** and **Kafka Consumer**) for development, how to do it? So in the tutorial, **JavaSampleApproach** will introduce an alternative solution by manually configure **Kafka factories** to build a **Spring Kafka Application**.

Related Articles:

- How to start Apache Kafka
- How to start Spring Apache Kafka Application with SpringBoot Auto-Configuration
- How to use Spring Kafka JsonSerializer(JsonDeserializer) to produce/consume Java Object messages
- How to create Spring RabbitMQ Producer/Consumer application with SpringBoot



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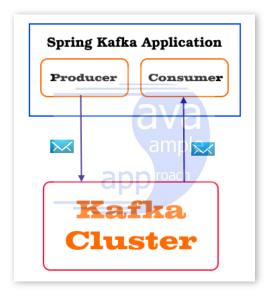
- I. Technologies
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- III. Practice
 - 1. Create a SpringBoot project
 - 2. Create Kafa Factories (ProducerFactory & ConsumerFactory)
 - 2.1 Create ProducerFactory and KafkaTemplate
 - 2.2 Create ConsumerFactory and KafkaListenerContainerFactory
 - 3. Create Services (Producer and Consumer)
 - 4. Export some RestAPIs
 - 5. Deployment

IV. Sourcecode

I. Technologies

- Java 8
- Maven build
- Spring Boot
- Spring Kafka
- Apache Kafka
- Spring Tool Suite editor

II. Overview





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We will explicitly implement a **ProducerFactory** and **ConsumerFactory** with customized properties:

```
@Bean
public ProducerFactory<String, String> producerFactory() {
    Map<String, Object> configProps = new HashMap<();
    ...
    return new DefaultKafkaProducerFactory<>(configProps);
}

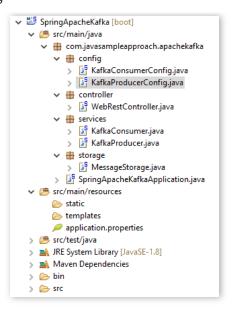
@Bean
public ConsumerFactory<String, String> consumerFactory() {
    Map<String, Object> props = new HashMap<();
    ...
    return new DefaultKafkaConsumerFactory<>(props);
}
```

Then use **ProducerFactory** to build **KafkaTemplate** and use **ConsumerFactory** to build **ConcurrentKafkaListenerContainerFactory** which will handle @KafkaListener later:

```
@Bean
public KafkaTemplate<String, String> kafkaTemplate() {
    return new KafkaTemplate <>(producerFactory());
}
...
@Bean
public ConcurrentKafkaListenerContainerFactory<String, String> kafkaListenerContainerFactory() {
    ConcurrentKafkaListenerContainerFactory<String, String> factory = new ConcurrentKafkaListenerContainerFactory<();
    factory.setConsumerFactory(consumerFactory());
    return factory;
}</pre>
```

III. Practice

We create a **SpringBoot** project with 2 main services: **KafkaProducer** and **KafkaConsumer** for sending and receiving messages from **Apache Kafka** cluster. And export 2 RestAPIs {'/producer', '/consumer'} for interaction.



Step to do:

- Create a SpringBoot project
- Create Kafa Factories (ProducerFactory & ConsumerFactory)
- Create Services (Producer and Consumer)
- Export some RestAPIs
- Deployment

1. Create a SpringBoot project

Use **SpringToolSuite** to create a **SpringBoot** project, then add dependencies {spring-kafka, spring-boot-starter-web}:

2. Create Kafa Factories (ProducerFactory & ConsumerFactory)

Open application.properties, add kafka configuration:

```
jsa.kafka.bootstrap-servers=localhost:9092
jsa.kafka.consumer.group-id=jsa-group
jsa.kafka.topic=jsa-kafka-topic
```

- jsa.kafka.bootstrap-servers is used to indicate the **Kafka Cluster** address.
- jsa.kafka.consumer.group-id is used to indicate the **consumer-group-id**.

- jsa.kafka.topic is used to define a Kafka topic name to produce and receive messages.

2.1 Create ProducerFactory and KafkaTemplate

```
package com.javasampleapproach.apachekafka.config;
import java.util.HashMap;
import java.util.Map;
import org.apache.kafka.clients.producer.ProducerConfig;
import org.apache.kafka.common.serialization.StringSerializer;
import org.springframework.beans.factory.annotation.Value;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.kafka.core.DefaultKafkaProducerFactory;
import org.springframework.kafka.core.KafkaTemplate;
import org.springframework.kafka.core.ProducerFactory;
@Configuration
public class KafkaProducerConfig {
  @Value("${jsa.kafka.bootstrap-servers}")
  private String bootstrapServer;
  @Bean
  public ProducerFactory<String, String> producerFactory() {
      Map<String, Object> configProps = new HashMap<>();
      configProps.put(ProducerConfig.BOOTSTRAP_SERVERS_CONFIG, bootstrapServer);
      configProps.put(ProducerConfig.KEY_SERIALIZER_CLASS_CONFIG, StringSerializer.class);
      configProps.put(ProducerConfig.VALUE_SERIALIZER_CLASS_CONFIG, StringSerializer.class);
      return new DefaultKafkaProducerFactory<>(configProps);
 }
  @Bean
  public KafkaTemplate<String, String> kafkaTemplate() {
      return new KafkaTemplate<>(producerFactory());
}
```



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2.2 Create ConsumerFactory and KafkaListenerContainerFactory

```
package com.javasampleapproach.apachekafka.config;
import java.util.HashMap;
import java.util.Map;
import org.apache.kafka.clients.consumer.ConsumerConfig;
import org.apache.kafka.common.serialization.StringDeserializer;
import org.springframework.beans.factory.annotation.Value;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.kafka.annotation.EnableKafka;
import org.springframework.kafka.config.ConcurrentKafkaListenerContainerFactory;
import org.springframework.kafka.core.ConsumerFactory;
import org.springframework.kafka.core.DefaultKafkaConsumerFactory;
@EnableKafka
@Configuration
public class KafkaConsumerConfig {
  @Value("${jsa.kafka.bootstrap-servers}")
  private String bootstrapServer;
  @Value("${jsa.kafka.consumer.group-id}")
  private String groupId;
  public ConsumerFactory<String, String> consumerFactory() {
      Map<String, Object> props = new HashMap<>();
      props.put(ConsumerConfig.BOOTSTRAP_SERVERS_CONFIG, bootstrapServer);
      props.put(ConsumerConfig.GROUP_ID_CONFIG, groupId);
      props.put(ConsumerConfig.KEY_DESERIALIZER_CLASS_CONFIG, StringDeserializer.class);
      props.put(ConsumerConfig.VALUE_DESERIALIZER_CLASS_CONFIG, StringDeserializer.class);
      return new DefaultKafkaConsumerFactory<>(props);
 }
  @Bean
  public ConcurrentKafkaListenerContainerFactory<String, String> kafkaListenerContainerFactory() {
      ConcurrentKafkaListenerContainerFactory<String, String> factory = new ConcurrentKafkaListenerContainerFactory<>();
      factory.setConsumerFactory(consumerFactory());
      return factory;
 }
}
```

@EnableKafka is used to enable detection of @KafkaListener annotation.

- 3. Create Services (Producer and Consumer)
- Create a **KafkaProducer** service:

```
package com.javasampleapproach.apachekafka.services;
import org.slf4j.Logger;
```

```
import org.slf4j.LoggerFactory;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.beans.factory.annotation.Value;
import org.springframework.kafka.core.KafkaTemplate;
import org.springframework.stereotype.Service;
@Service
public class KafkaProducer {
 private static final Logger log = LoggerFactory.getLogger(KafkaProducer.class);
 @Autowired
 private KafkaTemplate<String, String> kafkaTemplate;
 @Value("${jsa.kafka.topic}")
 String kafkaTopic = "jsa-test";
 public void send(String data) {
     log.info("sending data='{}'", data);
     kafkaTemplate.send(kafkaTopic, data);
 }
```

- Create a **KafkaConsumer** service:

```
package com.javasampleapproach.apachekafka.services;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.kafka.annotation.KafkaListener;
import org.springframework.stereotype.Component;
import com.javasampleapproach.apachekafka.storage.MessageStorage;
@Component
public class KafkaConsumer {
  private static final Logger log = LoggerFactory.getLogger(KafkaProducer.class);
  @Autowired
  MessageStorage storage;
  @KafkaListener(topics="${jsa.kafka.topic}")
    public void processMessage(String content) {
    log.info("received content = '{}'", content);
    storage.put(content);
}
```

About **MessageStorage**, it is an additional implement to store Kafka-based messages after received. See details the implementation of **MessageStorage**:

```
package com.javasampleapproach.apachekafka.storage;
```

```
import java.util.ArrayList;
import java.util.List;
import org.springframework.stereotype.Component;

@Component
public class MessageStorage {
    private List<String> storage = new ArrayList<String>();
    public void put(String message){
        storage.add(message);
    }
    public String toString(){
        StringBuffer info = new StringBuffer();
        storage.forEach(msg->info.append(msg).append("<br/>"));
        return info.toString();
    }
    public void clear(){
        storage.clear();
    }
}
```

4. Export some RestAPIs

Create a Web Controller to export 2 RestAPIs {'/producer', '/consumer'}

```
package com.javasampleapproach.apachekafka.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.javasampleapproach.apachekafka.services.KafkaProducer;
import com.javasampleapproach.apachekafka.storage.MessageStorage;
@RestController
@RequestMapping(value="/jsa/kafka")
public class WebRestController {
 @Autowired
 KafkaProducer producer;
 @Autowired
 MessageStorage storage;
 @GetMapping(value="/producer")
 public String producer(@RequestParam("data")String data){
    producer.send(data);
```

```
return "Done";
}

@GetMapping(value="/consumer")
public String getAllRecievedMessage(){
   String messages = storage.toString();
   storage.clear();
   return messages;
}
```

- /producer is used to send messages from browser to **KafkaProducer** service.
- /consumer is used to get all recieved messages that are buffered in **MessageStorage**.

5. Deployment

Start Apache Kafka Cluster:

- Start a ZooKeeper:

```
 C: \ kafka\_2.12-0.10.2.1>. \ bin\ windows \ zookeeper-server-start. bat . \ config\ zookeeper.properties
```

- Start the Apache Kafka server:

```
.\bin\windows\kafka-server-start.bat .\config\server.properties
```

>>> More details at: How to start Apache Kafka

Build and Install the SpringBoot project with commandlines: mvn clean install and mvn spring-boot:run

- Make a producer request: http://localhost:8080/jsa/kafka/producer?data=Hello World
- -> Logs:

```
...

2017-06-08 13:49:47.111 INFO 12240 --- [io-8080-exec-10] c.j.apachekafka.services.KafkaProducer : sending data='Hello World'
...

2017-06-08 13:49:47.248 INFO 12240 --- [ntainer#0-0-L-1] c.j.apachekafka.services.KafkaProducer : received content = 'Hello World'
```

- Make another producer request: http://localhost:8080/jsa/kafka/producer?data=This is a SpringBoot Kafka Application
- -> Logs:

```
2017-06-08 13:51:34.909 INFO 12240 --- [nio-8080-exec-7] c.j.apachekafka.services.KafkaProducer : sending data='This is a SpringBoot Kafka Application' : received content = 'This is a Spring spring : received content = 'This is a Spring spring : received content = 'This is a Spring spring
```

- Make a consumer request: http://localhost:8080/jsa/kafka/consumer, result:



IV. Sourcecode

SpringApacheKafka



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Post Tags

Apache Kafka messaging system spring boot spring kafka

9 thoughts on "How to start Spring Kafka Application with Spring Boot"



Venkat

October 13, 2017 at 2:24 pm

Thanks, well explained. But i was facing an error while sending message. Its timed out after long waiting to send message. Any thoughts?

My propeties here:

```
jsa.kafka.bootstrap-servers=localhost:9092
jsa.kafka.consumer.group-id=test-consumer-group
jsa.kafka.topic=test-topic
```

```
2017-10-13 09:18:05.603 ERROR 48523 --- [nio-8080-exec-2] o.s.k.support.LoggingProducerListener : Exception thrown when sending a message with key='null' and payload='torg.apache.kafka.common.errors.TimeoutException: Failed to update metadata after 60000 ms.
```



JavaSampleApproach &

October 14, 2017 at 4:12 am

Hi Venkat,

I had tried to re-produce your case. But can NOT in my environment.

Do you try the tutorial with your local environment or any cloud or docker?

The time-out exception may be related with your server Kafka setup. I had the experience when done with other tech-stacks.

May be, your cursor in cmd stops the excution of Kafka engine -> So please check it by do an enter keyboard on Kafka starting server cmd.

If having any difficult for setup and running, you can follow the video guide: https://youtu.be/A2FXupo7FLs

Regards,

JSA



Talha

December 6, 2017 at 4:42 pm

Hi! I am not receiving any messages when I make request to http://localhost:8080/jsa/kafka/consumer what should I do? I debug the code too but no success.

Thanks



JavaSampleApproach &

December 7, 2017 at 9:20 am

Hello Talha,

You can follow 2 steps for working with the tutorial:

- Start Apache Kafka Cluster, follow at Deployment session.

More practice with Kafka startup, follow link: How to start Apache Kafka

- Then download sourcecode, build and run it.

More details, See guide video for practicing: https://youtu.be/A2FXupo7FLs

Regards,

JSA



Joe Ann Midhun

February 16, 2018 at 9:17 am

I am getting the following error while doing mvn spring-boot:run.Any help??

java.net.BindException: Address already in use: bind at sun.nio.ch.Net.bind0(Native Method) ~[na:1.8.0_111] at sun.nio.ch.Net.bind(Net.java:433) ~[na:1.8.0_111] at sun.nio.ch.Net.bind(Net.java:425) ~[na:1.8.0_111]

```
at sun.nio.ch.ServerSocketChannelImpl.bind(ServerSocketChannelImpl.java:223) ~[na:1.8.0_111]
at sun.nio.ch.ServerSocketAdaptor.bind(ServerSocketAdaptor.java:74) ~[na:1.8.0 111]
at org.apache.tomcat.util.net.NioEndpoint.bind(NioEndpoint.java:210) ~[tomcat-embed-core-8.5.14.jar:8.5.14]
at org.apache.tomcat.util.net.AbstractEndpoint.start(AbstractEndpoint.java:978) ~[tomcat-embed-core-8.5.14.jar:8.5.14]
at org.apache.coyote.AbstractProtocol.start(AbstractProtocol.java:628) ~[tomcat-embed-core-8.5.14.jar:8.5.14]
at org.apache.catalina.connector.Connector.startInternal(Connector.java:993) [tomcat-embed-core-8.5.14.jar:8.5.14]
at org.apache.catalina.util.LifecycleBase.start(LifecycleBase.java:150) [tomcat-embed-core-8.5.14.jar:8.5.14]
at org.apache.catalina.core.StandardService.addConnector(StandardService.java:225) [tomcat-embed-core-8.5.14.jar:8.5.14]
at
org.springframework.boot.context.embedded.tomcat.TomcatEmbeddedServletContainer.addPreviouslyRemovedConnectors(TomcatEmbeddedServletContainer.java:247
) [spring-boot-1.5.3.RELEASE.jar:1.5.3.RELEASE]
at org.springframework.boot.context.embedded.tomcat.TomcatEmbeddedServletContainer.start(TomcatEmbeddedServletContainer.java:190) [spring-boot-
1.5.3.RELEASE.jar:1.5.3.RELEASE]
at org.springframework.boot.context.embedded.EmbeddedWebApplicationContext.startEmbeddedServletContainer(EmbeddedWebApplicationContext.java:297)
[spring-boot-1.5.3.RELEASE.jar:1.5.3.RELEASE]
at org.springframework.boot.context.embedded.EmbeddedWebApplicationContext.finishRefresh(EmbeddedWebApplicationContext.java:145) [spring-boot-
1.5.3.RELEASE.jar:1.5.3.RELEASE]
at org.springframework.context.support.AbstractApplicationContext.refresh(AbstractApplicationContext.java:545) [spring-context-4.3.8.RELEASE.jar:4.3.8.RELEASE]
at org.springframework.boot.context.embedded.EmbeddedWebApplicationContext.refresh(EmbeddedWebApplicationContext.java:122) [spring-boot-
1.5.3.RELEASE.jar:1.5.3.RELEASE]
at org.springframework.boot.SpringApplication.refresh(SpringApplication.java:737) [spring-boot-1.5.3.RELEASE.jar:1.5.3.RELEASE]
at org.springframework.boot.SpringApplication.refreshContext(SpringApplication.java:370) [spring-boot-1.5.3.RELEASE.jar:1.5.3.RELEASE]
at org.springframework.boot.SpringApplication.run(SpringApplication.java:314) [spring-boot-1.5.3.RELEASE.jar:1.5.3.RELEASE]
at org.springframework.boot.SpringApplication.run(SpringApplication.java:1162) [spring-boot-1.5.3.RELEASE.jar:1.5.3.RELEASE]
at org.springframework.boot.SpringApplication.run(SpringApplication.java:1151) [spring-boot-1.5.3.RELEASE.jar:1.5.3.RELEASE]
at com.javasampleapproach.apachekafka.SpringBootApacheKafkaApplication.main(SpringBootApacheKafkaApplication.java:10) [classes/:na]
at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method) ~[na:1.8.0_111]
at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62) ~[na:1.8.0 111]
at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43) ~[na:1.8.0 111]
at java.lang.reflect.Method.invoke(Method.java:498) ~[na:1.8.0 111]
at org.springframework.boot.maven.AbstractRunMojo$LaunchRunner.run(AbstractRunMojo.java:527) [spring-boot-maven-plugin-1.5.3.RELEASE.jar:1.5.3.RELEASE]
at java.lang.Thread.run(Thread.java:745) [na:1.8.0 111]
2018-02-16 14:45:25.381 ERROR 9564 — [main] o.apache.catalina.core.StandardService: Failed to start connector [Connector[HTTP/1.1-8080]]
org.apache.catalina.LifecycleException: Failed to start component [Connector[HTTP/1.1-8080]]
at org.apache.catalina.util.LifecycleBase.start(LifecycleBase.java:167) ~[tomcat-embed-core-8.5.14.jar:8.5.14]
at org.apache.catalina.core.StandardService.addConnector(StandardService.java:225) ~[tomcat-embed-core-8.5.14.jar:8.5.14]
at
org.springframework.boot.context.embedded.tomcat.TomcatEmbeddedServletContainer.addPreviouslyRemovedConnectors(TomcatEmbeddedServletContainer.java:247
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1.5.3.RELEASE.jar:1.5.3.RELEASE]
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[spring-boot-1.5.3.RELEASE.jar:1.5.3.RELEASE]
at org.springframework.boot.context.embedded.EmbeddedWebApplicationContext.finishRefresh(EmbeddedWebApplicationContext.java:145) [spring-boot-
```

```
1.5.3.RELEASE.jar:1.5.3.RELEASE]
at org.springframework.context.support.AbstractApplicationContext.refresh(AbstractApplicationContext.java:545) [spring-context-4.3.8.RELEASE.jar:4.3.8.RELEASE]
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at org.springframework.boot.SpringApplication.run(SpringApplication.java:1151) [spring-boot-1.5.3.RELEASE.jar:1.5.3.RELEASE]
at com.javasampleapproach.apachekafka.SpringBootApacheKafkaApplication.main(SpringBootApacheKafkaApplication.java:10) [classes/:na]
at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method) ~[na:1.8.0 111]
at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62) ~[na:1.8.0 111]
at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43) ~[na:1.8.0 111]
at java.lang.reflect.Method.invoke(Method.java:498) ~[na:1.8.0 111]
at org.springframework.boot.maven.AbstractRunMojo$LaunchRunner.run(AbstractRunMojo.java:527) [spring-boot-maven-plugin-1.5.3.RELEASE.jar:1.5.3.RELEASE]
at java.lang.Thread.run(Thread.java:745) [na:1.8.0 111]
Caused by: org.apache.catalina.LifecycleException: service.getName(): "Tomcat"; Protocol handler start failed
at org.apache.catalina.connector.Connector.startInternal(Connector.java:1000) ~[tomcat-embed-core-8.5.14.jar:8.5.14]
at org.apache.catalina.util.LifecycleBase.start(LifecycleBase.java:150) ~[tomcat-embed-core-8.5.14.jar:8.5.14]
... 19 common frames omitted
Caused by: java.net.BindException: Address already in use: bind
at sun.nio.ch.Net.bind0(Native Method) ~[na:1.8.0 111]
at sun.nio.ch.Net.bind(Net.java:433) ~[na:1.8.0 111]
at sun.nio.ch.Net.bind(Net.java:425) ~[na:1.8.0 111]
at sun.nio.ch.ServerSocketChannelImpl.bind(ServerSocketChannelImpl.java:223) \sim[na:1.8.0 111]
at sun.nio.ch.ServerSocketAdaptor.bind(ServerSocketAdaptor.java:74) ~[na:1.8.0 111]
at org.apache.tomcat.util.net.NioEndpoint.bind(NioEndpoint.java:210) ~[tomcat-embed-core-8.5.14.jar:8.5.14]
at org.apache.tomcat.util.net.AbstractEndpoint.start(AbstractEndpoint.java:978) ~[tomcat-embed-core-8.5.14.jar:8.5.14]
at org.apache.coyote.AbstractProtocol.start(AbstractProtocol.java:628) ~[tomcat-embed-core-8.5.14.jar:8.5.14]
at org.apache.catalina.connector.Connector.startInternal(Connector.java:993) ~[tomcat-embed-core-8.5.14.jar:8.5.14]
... 20 common frames omitted
2018-02-16 14:45:25.431 INFO 9564 — [main] o.apache.catalina.core.StandardService: Stopping service Tomcat
2018-02-16 14:45:25.449 INFO 9564 — [ntainer#0-0-C-1] o.a.k.c.c.internals.AbstractCoordinator: Discovered coordinator D-113060917.wipro.com:9092 (id:
2147483647 rack: null) for group isa-group.
2018-02-16 14:45:25.462 INFO 9564 — [ntainer#0-0-C-1] o.a.k.c.c.internals.ConsumerCoordinator: Revoking previously assigned partitions [] for group jsa-group
2018-02-16 14:45:25.464 INFO 9564 — [ main] utoConfigurationReportLoggingInitializer:
Error starting ApplicationContext. To display the auto-configuration report re-run your application with 'debug' enabled.
2018-02-16 14:45:25.469 INFO 9564 — [ntainer#0-0-C-1] o.s.k.l.KafkaMessageListenerContainer: partitions revoked:[]
2018-02-16 14:45:25.472 INFO 9564 — [ntainer#0-0-C-1] o.a.k.c.c.internals.AbstractCoordinator: (Re-)joining group jsa-group
2018-02-16 14:45:25.476 ERROR 9564 — [ main] o.s.b.d.LogqingFailureAnalysisReporter :
*********
APPLICATION FAILED TO START
*********
```

Description:

The Tomcat connector configured to listen on port 8080 failed to start. The port may already be in use or the connector may be misconfigured.

Action:

```
Verify the connector's configuration, identify and stop any process that's listening on port 8080, or configure this application to listen on another port.
```

```
2018-02-16 14:45:25.498 INFO 9564 — [main] ationConfigEmbeddedWebApplicationContext : Closing
org.springframework.boot.context.embedded.AnnotationConfigEmbeddedWebApplicationContext@4f055159: startup date [Fri Feb 16 14:45:22 IST 2018]; root of
context hierarchy
2018-02-16 14:45:25.503 INFO 9564 — [ main] o.s.c.support.DefaultLifecycleProcessor: Stopping beans in phase 0
2018-02-16 14:45:25.508 INFO 9564 — [ntainer#0-0-C-1] essageListenerContainer$ListenerConsumer : Consumer stopped
2018-02-16 14:45:25.508 INFO 9564 — [ main] o.s.j.e.a.AnnotationMBeanExporter: Unregistering JMX-exposed beans on shutdown
[WARNING]
java.lang.reflect.InvocationTargetException
at sun.reflect.NativeMethodAccessorImpl.invokeO(Native Method)
at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)
at \ sun.reflect. Delegating Method Accessor Impl. in voke (Delegating Method Accessor Impl. java: 43)
at java.lang.reflect.Method.invoke(Method.java:498)
at org.springframework.boot.maven.AbstractRunMojo$LaunchRunner.run(AbstractRunMojo.java:527)
at java.lang.Thread.run(Thread.java:745)
Caused by: org.springframework.boot.context.embedded.tomcat.ConnectorStartFailedException: Connector configured to listen on port 8080 failed to start
org.springframework.boot.context.embedded.tomcat.TomcatEmbeddedServletContainer.checkThatConnectorsHaveStarted(TomcatEmbeddedServletContainer.java:219
at org.springframework.boot.context.embedded.tomcat.TomcatEmbeddedServletContainer.start(TomcatEmbeddedServletContainer.java:195)
at org.springframework.boot.context.embedded.EmbeddedWebApplicationContext.startEmbeddedServletContainer(EmbeddedWebApplicationContext.java:297)
at org.springframework.boot.context.embedded.EmbeddedWebApplicationContext.finishRefresh(EmbeddedWebApplicationContext.java:145)
at org.springframework.context.support.AbstractApplicationContext.refresh(AbstractApplicationContext.java:545)
at org.springframework.boot.context.embedded.EmbeddedWebApplicationContext.refresh(EmbeddedWebApplicationContext.java:122)
at org.springframework.boot.SpringApplication.refresh(SpringApplication.java:737)
at org.springframework.boot.SpringApplication.refreshContext(SpringApplication.java:370)
at org.springframework.boot.SpringApplication.run(SpringApplication.java:314)
at org.springframework.boot.SpringApplication.run(SpringApplication.java:1162)
at org.springframework.boot.SpringApplication.run(SpringApplication.java:1151)
at com.javasampleapproach.apachekafka.SpringBootApacheKafkaApplication.main(SpringBootApacheKafkaApplication.java:10)
... 6 more
[INFO] -----
[INFO] BUILD FAILURE
[INFO] -----
[INFO] Total time: 8.289 s
[INFO] Finished at: 2018-02-16T14:45:25+05:30
```

[ERROR] Failed to execute goal org.springframework.boot:spring-boot-maven-plugin:1.5.3.RELEASE:run (default-cli) on project SpringBootApacheKafka: An exception

[INFO] Final Memory: 36M/274M

[INFO] -----

occurred while running. null: InvocationTargetException: Connector configured to listen on port 8080 failed to start -> [Help 1]

[ERROR]

[ERROR] To see the full stack trace of the errors, re-run Maven with the -e switch.

[ERROR] Re-run Maven using the -X switch to enable full debug logging.

[ERROR]

[ERROR] For more information about the errors and possible solutions, please read the following articles:

[ERROR] [Help 1] http://cwiki.apache.org/confluence/display/MAVEN/MojoExecutionException



Joe Ann Midhun

February 16, 2018 at 9:25 am

I sorted out!.



Andy Harris

March 23, 2018 at 7:25 am

The error messages are clearly telling you that you have a port conflict as something else on your machine is using the same port (8080). Stop that process and try again.



Andy Harris

March 23, 2018 at 7:24 am

Awesome quick tutorial and it worked perfectly. Huge thanks for that.



dhakshina

April 26, 2018 at 3:07 pm

wonderful tutorial!!!!!:)

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ABOUT US

We are passionate engineers in software development by Java Technology & Spring Framework. We believe that creating little good thing with specific orientation everyday can make great influence on the world someday.