

Download kafka from below link [kafka_2.13-3.5.2](#)

Kafka Download Link - <https://kafka.apache.org/downloads>

Extract the tgz file and its inner folder keep the extracted folder in D: drive or any drive

Commands to start Zookeeper and Kafka in windows :

Open the folder having bin in terminal and execute below commands :-

Command 1 -- `.\bin\windows\zookeeper-server-start.bat .\config\zookeeper.properties`

Command2 - `.\bin\windows\kafka-server-start.bat .\config\server.properties`

Commands to start Zookeeper and Kafka in Linux:-

For Linux users(ubuntu)

Command1 - `bin/zookeeper-server-start.sh config/zookeeper.properties`

Command2 - `bin/kafka-server-start.sh config/server.properties`

To check any topics got created in kafka command for that is :-

For windows -

`.\bin\windows\kafka-topics.bat --list --bootstrap-server localhost:9092`

If Kafka is running, you should see a list of topics.

Now for demo create a springboot project with web and kafka dependency.

```
<dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-web</artifactId>
</dependency>
<dependency>
    <groupId>org.springframework.kafka</groupId>
    <artifactId>spring-kafka</artifactId>
</dependency>
```

Keep below code in controller

```
@RestController
@RequestMapping("/rest/api")
public class FetchMessageFromClient {

    @Autowired
    KafkaProducer kafkaProducer;

    @GetMapping(value = "/producer")
```

```

    public String sendMessage(@RequestParam("message") String message)
    {
        kafkaProducer.sendMessageToTopic(message);
        return "Message sent Successfully to the your code decode topic ";
    }
}

```

And then in service layer create two classes one “KafkaProducer” and the other One “KafkaListners”

```

@Service
public class KafkaProducer {

    @Autowired
    private KafkaTemplate<String, String> kafkaTemplate;
    // first type is topic data type(topic name String) 2nd one type of data to be
    passed
    public void sendMessageToTopic(String message) {
        kafkaTemplate.send("CodeDecodeTopic", message);
    }
}

```

```

@Service
public class KafkaListner {

    @KafkaListener(topics = "CodeDecodeTopic", groupId = "codedecode-group")
    public void listenToCodeDecodeKafkaTopic(String messageReceived) {
        System.out.println("Message received is " + messageReceived);
    }
}

```

Application.yml should have below configurations :-

```

spring:
  kafka:
    producer:
      bootstrap-servers: localhost:9092
      key-serializer: org.apache.kafka.common.serialization.StringSerializer
      value-serializer: org.apache.kafka.common.serialization.StringSerializer

```

same configuration for separate consumer service as well

```

spring:
  kafka:
    consumer:
      bootstrap-servers: localhost:9092
      key-serializer: org.apache.kafka.common.serialization.StringSerializer

```

`value-serializer: org.apache.kafka.common.serialization.StringSerializer`

How to check kafka running is ubuntu or not command

`sudo systemctl status kafka`