

=> { Apache - Kafka + SpringBoot }

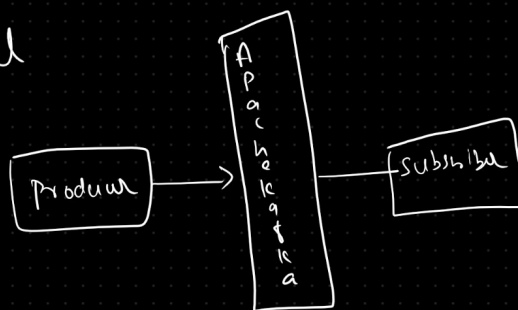
↳ Apache Kafka
↳ Message Broker

app1 → app2



→ used to process real time Data feeds Apache Kafka with low latency

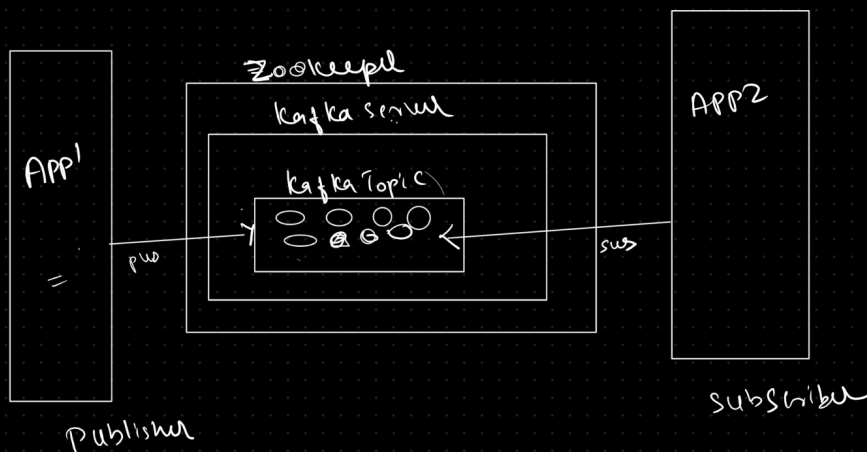
→ producer and subscriber model



- Zookeeper
- Kafka server
- Kafka Topic
- Message
- Publisher
- Subscriber

JRE = Y Server

Apache Kafka



- Connector API
- Publisher API
- subscriber API
- Stream API

=> SpringBoot App + Apache Kafka

Download Zookeeper from below URL :

<https://www.apache.org/dyn/closer.lua/zookeeper/zookeeper-3.7.2/apache-zookeeper-3.7.2-bin.tar.gz>

Download Apache Kafka from below URL:

<https://kafka.apache.org/downloads> or <https://downloads.apache.org/kafka/3.7.0/kafka-3.7.0-src.tgz>

Set Path to ZOOKEEPER in Environment variables : D:\Kafka\apache-zookeeper-3.7.2-bin\apache-zookeeper-3.7.2-bin\bin

Copy zookeeper.properties and server.properties files from kafka/config folder to kafka/bin/windows folder

start Zookeeper server using below command from kafka/bin/windows folder:

zookeeper-server-start.bat zookeeper.properties

Start Kafka Server using below command from Kafka folder

kafka-server-start.bat server.properties

Add below dependencies:

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

  <dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-devtools</artifactId>
    <scope>runtime</scope>
    <optional>true</optional>
  </dependency>
  <dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-test</artifactId>
    <scope>test</scope>
  </dependency>
  <dependency>
    <groupId>org.springframework.kafka</groupId>
    <artifactId>spring-kafka-test</artifactId>
    <scope>test</scope>
  </dependency>
</dependencies>
```