**How to use Kafka to send message between users**

1.install docker desktop

2. set up a docker.yaml file that automates the set-up of kafka and zookeeper

(a server for kafka).

***version: '3.8'***

***services:***

***zookeeper:***

***image: confluentinc/cp-zookeeper:7.4.0***

***container\_name: zookeeper***

***ports:***

***- "2181:2181"***

***environment:***

***ZOOKEEPER\_CLIENT\_PORT: 2181***

***ZOOKEEPER\_TICK\_TIME: 2000***

***kafka:***

***image: confluentinc/cp-kafka:7.4.0***

***container\_name: kafka***

***ports:***

***- "9092:9092"***

***environment:***

***KAFKA\_BROKER\_ID: 1***

***KAFKA\_ZOOKEEPER\_CONNECT: zookeeper:2181***

***KAFKA\_ADVERTISED\_LISTENERS: PLAINTEXT://localhost:9092***

***KAFKA\_OFFSETS\_TOPIC\_REPLICATION\_FACTOR: 1***

***depends\_on:***

***- zookeeper***

4. added config to use kafka in the application.properties

pring.kafka.bootstrap-servers=localhost:9092  
spring.kafka.consumer.group-id=admas-chat  
spring.kafka.consumer.value-deserializer=org.springframework.kafka.support.serializer.JsonDeserializer  
spring.kafka.consumer.properties.spring.json.trusted.packages=\*  
spring.kafka.producer.value-serializer=org.springframework.kafka.support.serializer.JsonSerializer

3. pulled kafka and zookeeper docker images

* **docker pull confluentinc/cp-zookeeper:7.4.0**
* **docker pull confluentinc/cp-kafka:7.4.0**

4. run the container using

* ***docker compose up -d***

5. created a kafka producer and consumer