Week 12

Project: Kafka + Spark Streaming + PySpark

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**Kafka QuickStart — Apache Kafka + Kafka-Python**

1.The latest version of Kafka binary distribution is available at <https://kafka.apache.org/downloads.>

Graphical user interface, text, application, email

Description automatically generated

2. Starting Zookeeper. Unzip it, get into the folders cd into it





3. Starting Kafka Brokers

Create another terminal, do not close zookeeper

Text

Description automatically generated

**4.Creating Kafka Topics.**

**Create another terminal, do not close zookeeper and kafka brokers**

**bin/kafka-topics.sh --create --topic input\_recommend\_product --zookeeper localhost:2181 -- partitions 3 --replication-factor 1**

Text, letter

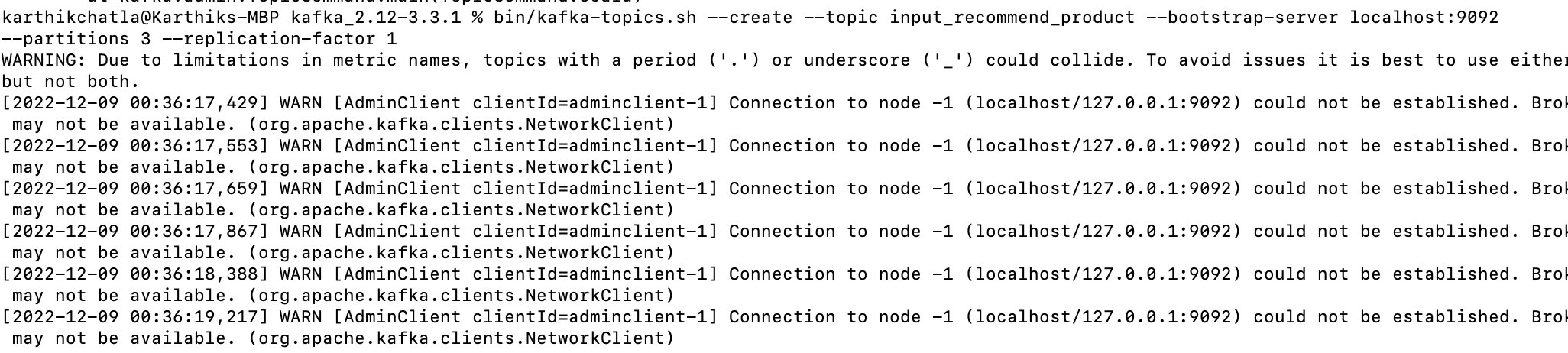
Description automatically generated

Meet with problem. Solve it : <https://stackoverflow.com/questions/69297020/exception-inthread-main-joptsimple-unrecognizedoptionexception-zookeeper-is>

Graphical user interface, text, application

Description automatically generated

bin/kafka-topics.sh --create --topic input\_recommend\_product --bootstrap-server localhost:9092 --partitions 3 --replication-factor 1



To see the topics: bin/kafka-topics.sh --bootstrap-server localhost:9092 –list

5 Creating Producer and Consumer using Kafka-python

5.1 Create producer.py

from kafka import KafkaProducer

producer = KafkaProducer(bootstrap\_servers='localhost:9092')

producer.send('input\_recommend\_product', b'(1, Main Menu), (2, Phone) ,(3, Smart Phone), (4, iPhone)')

producer.close()

5.2 Create Consumerr.py

Code

from kafka import KafkaConsumer

consumer = KafkaConsumer('input\_recommend\_product',

bootstrap\_servers=['localhost:9092'])

for msg in consumer:

print(msg)

5.3 Run comsumer.py first (you can run it in your IDE)

5.4 Create another terminal, run the producer.py

5.5 Go to the consumer terminal, you can see the result