

UNIVERSIDAD NACIONAL DE SAN AGUSTÍN DE AREQUIPA

FACULTAD DE PRODUCCION Y SERVICIOS

ESCUELA PROFESIONAL CIENCIA DE LA COMPUTACIÓN



CURSO: BIG DATA

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REPOSTORIO: https://github.com/tigerofmurder/apache_kafka

AREQUIPA – PERÚ

2021

Ejecutar ZooKeeper

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

Ejecutar Kafka

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

Crear un Productor Consumidor

Nombre: quickstart-events

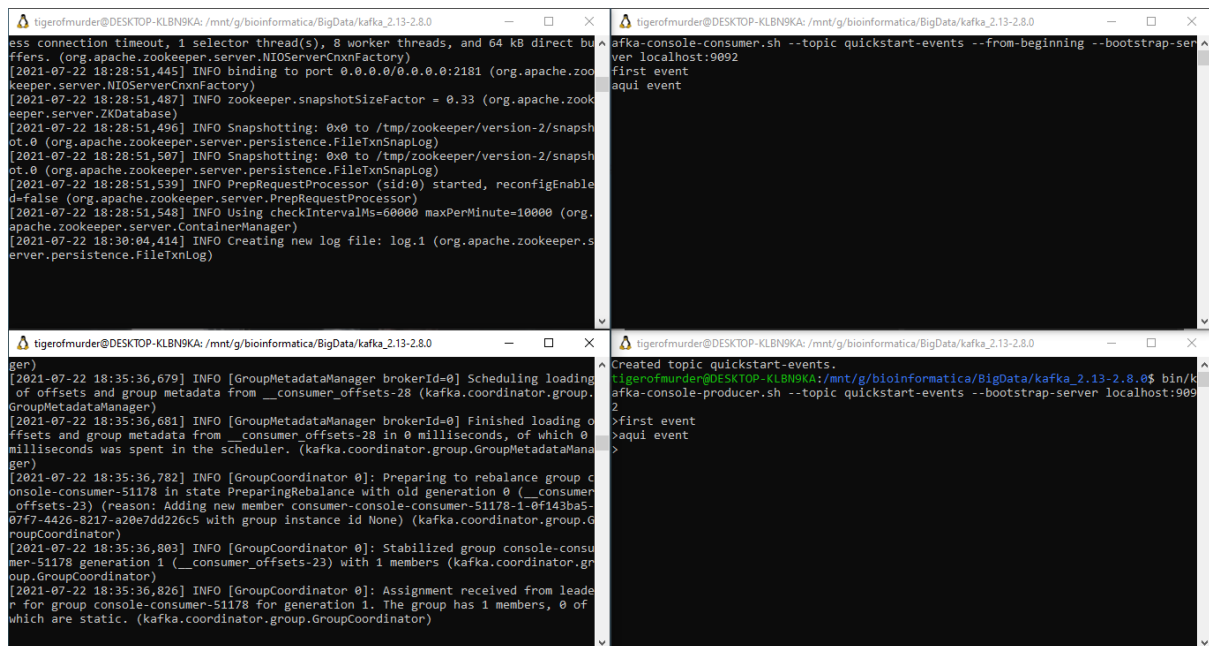
bin/kafka-topics.sh --create --topic quickstart-events --bootstrap-server localhost:9092

Consumidor

bin/kafka-console-consumer.sh --topic quickstart-events --from-beginning --bootstrap-server localhost:9092

Productor

bin/kafka-console-producer.sh --topic quickstart-events --bootstrap-server localhost:9092



The image displays four terminal windows from a user named 'tigerofmunder' on a desktop named 'KLB9KA'. The windows show the following content:

- Top Left:** Logs for the ZooKeeper server starting up. It shows the server binding to port 2181 and initializing the snapshotting process.
- Top Right:** Logs for the Kafka console consumer. It shows the consumer starting and receiving the first event, 'aqui event'.
- Bottom Left:** Logs for the Kafka console producer. It shows the producer scheduling and loading offsets, and then sending the first event, 'aqui event'.
- Bottom Right:** A terminal window showing the command to create the topic: `bin/kafka-topics.sh --create --topic quickstart-events --bootstrap-server localhost:9092`. The output shows the topic was created successfully.

LIST

./bin/kafka-topics.sh --bootstrap-server=localhost:9092 --list

Eliminar Topic

```
bin/kafka-topics.sh --bootstrap-server localhost:9092 --delete --topic quickstart-events
```

Ejecutar Word Count

1. Crear wordcount-input topic:

```
bin/kafka-topics.sh --bootstrap-server localhost:9092 --create --topic wordcount-input
```

```
--partitions 1 --replication-factor 1
```

```
bin/kafka-topics.sh --bootstrap-server localhost:9092 --create --topic wordcount-output
```

```
--partitions 1 --replication-factor 1
```

2. Escribir contenido al topic input para cerrar usar Ctrl+c

```
bin/kafka-console-producer.sh --broker-list localhost:9092 --topic wordcount-input
```

3. Ejecutar Word Count

- ```
bin/kafka-console-consumer.sh --bootstrap-server localhost:9092 --topic wordcount-output --from-beginning --zookeeper localhost:2181 --formatter kafka.tools.DefaultMessageFormatter --property print.key=true --property print.value=true --property key.deserializer=org.apache.kafka.common.serialization.StringDeserializer --property value.deserializer=org.apache.kafka.common.serialization.LongDeserializer
```

```
tigerofmurder@DESKTOP-KLBN9KA:/mnt/g/bioinformatica/BigData/kafka/kafka_2.13-2.8.0$ bin/kafka-console-consumer.sh --bootstrap-server localhost:9092 --topic wordcount-input --from-beginning --zookeeper localhost:2181 --formatter kafka.tools.DefaultMessageFormatter --property print.key=true --property print.value=true --property key.deserializer=org.apache.kafka.common.serialization.StringDeserializer --property value.deserializer=org.apache.kafka.common.serialization.LongDeserializer
```

- ```
java -cp target/kafka-streams-wordcount.jar com.tigerofmurder.examples.streams.wordcount.WordCount
```
- ```
bin/kafka-console-consumer.sh --topic wordcount-output --from-beginning --bootstrap-server localhost:9092 --property print.key=true
```

```
tigerofmurder@DESKTOP-KLBN9KA:/mnt/g/bioinformatica/BigData/kafka/kafka_2.13-2.8.0$ bin/kafka-console-consumer.sh --topic wordcount-output --from-beginning --bootstrap-server localhost:9092 --property print.key=true
1
es 1
la 1
aqui 1
mas 2
larga 2
esta 3
palabra 3
```

## SI ESTAMOS EN WINDOWS ES NECESARIO DESCARGAR LA TERMINAL DE UNA MÁQUINA LINUX

### 1. Abrir PowerShell en modo administrador

#### 1.1. Ejecutar las siguientes líneas

```
dism.exe /online /enable-feature /featurename:Microsoft-Windows-Subsystem-Linux /all /norestart
```

```
dism.exe /online /enable-feature /featurename:VirtualMachinePlatform /all /norestart
```

```
wsl --set-default-version 2
```

2. Abrir la tienda de Microsoft

2.1. Buscar Linux

2.2. Instalar Ubuntu 20.04 LTS

3. Luego Abrir Ubuntu para que se abra la consola

3.1 ejecutar las siguientes lineas

```
sudo apt-get update && sudo apt-get upgrade -y
```

```
sudo apt install openjdk-8-jdk -y
```