Lab 6 submission

Kafka Exercise

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Make a report on the following with proper

screenshots

Step 1: Download and install kafka

Download Binary download of the latest version



DOWNLOAD

3.6.1 is the latest release. The current stable version is 3.6.1

You can verify your download by following these $\underline{\text{procedures}}$ and using these $\underline{\text{KEYS}}$.

3.6.1

- Released Dec 7, 2023
- Release Notes
- Source download: kafka-3.6.1-src.tgz (asc, sha512)
- Binary downloads:
 - o Scala 2.12 kafka_2.12-3.6.1.tgz (asc, sha512)
 - o Scala 2.13 kafka 2.13-3.6.1.tgz (asc, sha512)

We build for multiple versions of Scala. This only matters if you are using Scala and you want a version built for the same Scala version you use. Otherwise any version should work (2.13 is recommended).

Kafka 3.6.1 fixes 30 issues since the 3.6.0 release. For more information, please read the detailed Release Notes.

unzip the folder

```
Viswaksena@ubuntu:~$ mkdir kafka
Viswaksena@ubuntu:~$ cd kafka/
Viswaksena@ubuntu:~/kafka$ tar -xvzf ~/Downloads/kafka_2.12-3.6.1.tgz --strip 1
```

Step 2: Set the Kafka environment

Start Zookeeper (in a new terminal):

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

```
| 12024-01-25 02:51:20,663 | NFO Reading configuration from: confi
```

Start Kafka server (in another terminal):

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

```
Visuaksena@ubuntu:-/kafka$ bin/kafka-server-start.sh config/server.properties
[2024-01-25 02:50:11,139] IMFO Registered kafka:type=kafka.Log4jController MBean (kafka.utils.Log4jControllerRegistration$)
[2024-01-25 02:50:11,354] IMFO Setting -D jdk.tls.rejectCitientIntitatedRenegotiation=true to disable client-initiated TLS renegotiation (org.apache.zookeeper.
common.XS09Util)
[2024-01-25 02:50:11,405] IMFO Registered signal handlers for TERM, INT, HUP (org.apache.kafka.common.utils.LoggingSignalHandler)
[2024-01-25 02:50:11,406] IMFO starting (kafka.server.KafkaServer)
[2024-01-25 02:50:11,406] IMFO Connecting to zookeeper on localhost:2181 (kafka.server.KafkaServer)
[2024-01-25 02:50:11,410] IMFO [ZookeeperCitient Kafka server] Initializing a new session to localhost:2181. (kafka.zookeeper.ZooKeeper)
[2024-01-25 02:50:11,410] IMFO Client environment:zookeeper.version=3.8.3-6ad6d364c7c0bcf0de452d54ebefa3058098ab56, built on 2023-10-05 10:34 UTC (org.apache.zookeeper.ZooKeeper)
```

Step3: Create a topic to store the events you create

bin/kafka-topics.sh --create --topic my topic

- --bootstrap-server localhost:9092 --partitions 1
- --replication-factor 1

```
Viswaksena@ubuntu:-/kafka$ bin/kafka-topics.sh --create --topic my_topic --bootstrap-server localhost:9092 --partitions 1 --replication-factor 1
WARNING: Due to limitations in metric names, topics with a period ('.') or underscore ('_') could collide. To avoid issues it is best to use either, but not b
oth.
Created topic my_topic.
```

Step4: Write events to a topic

bin/kafka-console-producer.sh --topic my topic

--bootstrap-server localhost:9092

```
Viswaksena@ubuntu:~/kafka$ bin/kafka-console-producer.sh --topic my_topic --bootstrap-server localhost:9092
>Hi from server
>Kafka rocks
>This is my first time using of kafka
>Viswaksena here
```

Step5: Read the events

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

```
Viswaksena@ubun'tu:~/kafka$ bin/kafka-console-consumer.sh --topic my_topic --from-beginning --bootstrap-server localhost:9092
Hi from server
Kafka rocks
This is my first time using of kafka
Viswaksena here
```