

Lab 6 submission

Kafka Exercise

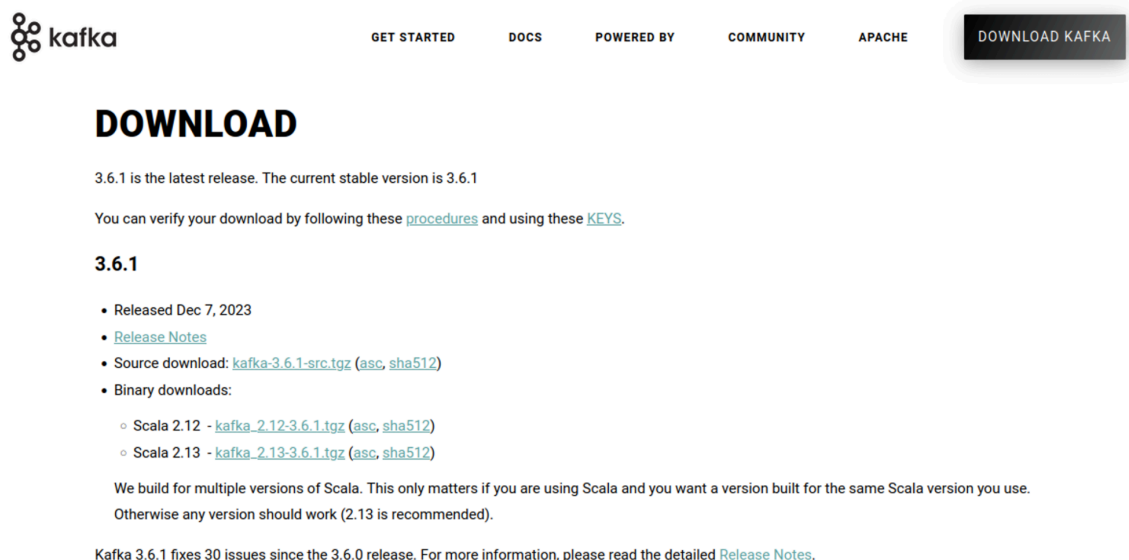
Name: J Viswaksena

Roll.No: AM.EN.U4AIE21035

Make a report on the following with proper screenshots

Step 1: Download and install kafka

Download Binary download of the latest version



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

[illegible]

Start Kafka server (in another terminal):

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

```

VLswaksena@ubuntu:~/kafka$ bin/kafka-server-start.sh config/server.properties
[2024-01-25 02:50:11,139] INFO Registered kafka:type=KafkaLog4jController MBean (kafka.utils.Log4jControllerRegistration$)
[2024-01-25 02:50:11,354] INFO Setting -D jdk.tls.rejectClientInitiatedRenegotiation=true to disable client-initiated TLS renegotiation (org.apache.zookeeper.
Common.X509Util)
[2024-01-25 02:50:11,405] INFO Registered signal handlers for TERM, INT, HUP (org.apache.kafka.common.utils.LoggingSignalHandler)
[2024-01-25 02:50:11,406] INFO starting (kafka.server.KafkaServer)
[2024-01-25 02:50:11,406] INFO Connecting to zookeeper on localhost:2181 (kafka.server.KafkaServer)
[2024-01-25 02:50:11,416] INFO [ZooKeeperClient Kafka server] Initializing a new session to localhost:2181. (kafka.zookeeper.ZooKeeperClient)
[2024-01-25 02:50:11,419] INFO Client environment:zookeeper.version=3.8.3-6ad6d364c70bc6f0de452d54ebef3a958098ab56, 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
```

```

$ 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 --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@ubuntu:~/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
```