Technical ReadMe

[**STEP 1: GET KAFKA**](https://kafka.apache.org/quickstart#quickstart_download)

Download Kafka from: <https://www.apache.org/dyn/closer.cgi?path=/kafka/3.2.1/kafka_2.13-3.2.1.tgz>

#### [STEP 2: START THE KAFKA ENVIRONMENT](https://kafka.apache.org/quickstart#quickstart_startserver)

**# Start the ZooKeeper service, please be noted that in cloudera zookeeper is already installed so this #step is not need**

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

**# Start the Kafka broker service**

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

#### [STEP 3: CREATE A TOPIC TO STORE YOUR EVENTS](https://kafka.apache.org/quickstart#quickstart_createtopic)

**#Create the topic named weather-topic**

$ bin/kafka-topics.sh --create --topic weather-topic --replication-factor 1 --partitions 1 --zookeeper localhost:2181

**#View the created topic**

$ bin/kafka-topics.sh --list --zookeeper localhost:2181

**#Describe Topic**

bin/kafka-topics.sh --zookeeper localhost:2181 --describe --topic weather -topic

**#Delete the topic**

bin/kafka-topics.sh --zookeeper localhost:2181 --delete --topic weather-topic

#### [STEP 4: WRITE SOME EVENTS INTO THE TOPIC](https://kafka.apache.org/quickstart#quickstart_send)

#### $ bin/kafka-console-producer.sh --broklist localhost:9092 --topic weather-topic

#### [STEP 5: READ THE EVENTS](https://kafka.apache.org/quickstart#quickstart_consume)

$ bin/kafka-console-consumer.sh --zookeeper localhost:2181 --topic weather-topic --from-beginning

**Step 6: CHECK THE HIVE SERVER STATUS**

$ sudo service hive-server2 status

$ sudo service hive-server2 restart

Running the Application

**Step 1: Run the Kafka by staying in Kafka folder**

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

**Step 2: Run the Kafka Consumer, named: SparkConsumer**

**Step 3: Run the Kafka Producer, WeatherKafkaProducer**

**Step 4: Run the SparkQL that read the data from HBASE and dump the analysis report in the csv format**