**Exercise 1**

**Agenda:** Learn basics of Kafka Broker, Topics, Producer and Consumer through inbuilt console application

1. Go to home directory of kafka installation package
2. Start zookeeper instance if not yet

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

1. Start a kafka server instance. By the way, Server is same as Broker

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

*NOTE: You might need to adjust the memory in server.properties file, if it gives JVM error.*

*Refer* [*here*](●%09https:/stackoverflow.com/questions/21448907/kafka-8-and-memory-there-is-insufficient-memory-for-the-java-runtime-environme) *for more information.*

1. Create a topic

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

1. Verify that topic has been created

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

1. Create Producer

*bin/kafka-console-producer.sh --broker-list localhost:9092 --topic test*

Here, --broker-list is the list of brokers who would be receiving the published messages in the form of host:port

Try running *bin/kafka-console-producer.sh* without any parameters and you will see a whole bunch of parameters it accepts

1. Create Consumer

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

Reference:

* <https://kafka.apache.org/documentation/#gettingStarted>
* <https://stackoverflow.com/questions/21448907/kafka-8-and-memory-there-is-insufficient-memory-for-the-java-runtime-environme>