

## Lab - Single Node Cluster

02:30 PM

1. 1 Kafka Cluster, 1 Zookeeper

Pre Setup : Java 8+ / 11

- Java -version

1. Will download - Scala 2.12 - kafka\_2.12-2.8.1.tgz (asc, sha512)

<https://kafka.apache.org/downloads>

1. C: -- thsb kafka --> unzip kafka\_2.12-2.8.1.tgz
2. C:\Kafka\kafka\_2.12-2.8.1\config Directory
3. 2 Files - server.properties, zookeeper.properties

4. will create 2 logs directory to store logs from zookeeper and kafka sever

- thbs\_zlogs
- thbs\_klogs

1. zookeeper.properties - LN - 16 will update above folder path respectively

### STEP 2: START THE KAFKA ENVIRONMENT

Will open cmd on installed --> /bin/windows

C:\Kafka\kafka\_2.12-2.8.1\bin\windows>

Start Zookeeper

**zookeeper-server-start.bat .\..\..\config\zookeeper.properties**

Start Kafka server / Broker

**kafka-server-start.bat .\..\..\config\server.properties**

### Start creation of topic

**kafka-topics.bat --create --topic thbs-demo-topic --bootstrap-server localhost:9092**

**kafka-topics.bat --describe --topic thbs-demo-topic --bootstrap-server localhost:9092**

Adding message inside topic ---

**kafka-console-producer.bat --topic thbs-demo-topic --bootstrap-server localhost:9092**

This is my first event

This is my second event

Read message from topic

**\$ kafka-console-consumer.bat --topic thbs-demo-topic --from-beginning --bootstrap-server localhost:9092**

This is my first event

This is my second event

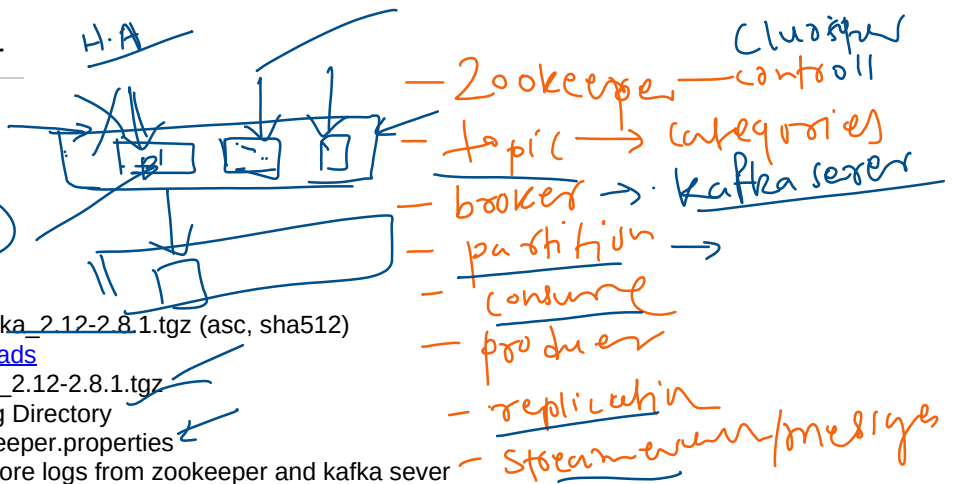
**kafka-console-producer.bat --topic monday --bootstrap-server localhost:9092**

**kafka-console-consumer.bat --topic monday --from-beginning --bootstrap-server localhost:9092**

**kafka-topics.bat --create --topic monday --bootstrap-server localhost:9092**

List brokers in the Kafka cluster

Let's list the broker in the Kafka cluster



Open distributed

**ls /brokers/ids**

**Show details of a Kafka broker**  
**get /brokers/ids/0**

**kafka-topics.bat --create --bootstrap-server localhost:9092 --replication-factor 2 --partitions 3 --topic friday**