#### Command line Interface (CLI)

Note - Instead of -- zookeeper 127.0.0.1:2151 use -- bootstrap-server wealthost:9092

### \* Katka topics CLI

2. Create

kafka-topics.sh -- zookeeper 127.0.0.1:2181 -- topic ctopic-name> -- create -- partitions evalue> -- replication-factor evalue>

- eg kafka-topics.sh--zookeeper 127.0.0.1:2181 -topic first-topic
  -- create -- partitions 3 -- replication-factor 1
- You can only create as many replicas as the number of brokers zookeeper works/binds on port 2181 always.
- 2. <u>list</u>: lists names of all kaffea topics. kafka-topics.sh --zookeeper 127.0.0.1:2181 -- list
- 3. <u>Describe</u>: List details for given topic

Kafka-topics.sh -- zookeeper 127.0.0.1:2181 -- topic first-topic -- desail

4. Delete: Deletes a topic

Katka-topics.sh -- zookeeper 127.0.0.1:2181 -- topic first-topic -- delete marks a topic for deletion.

## \* Kafka console producer cu

- To send data to katka, a producer is required.
- Ne of producer is to send or write data/messages to Icafica topics.

### Create

Kafka-console-producer -- broker-list 127.0.0.1:9092 -- topic topics > nello world

- You will get a'>' after pressing enter.
- -9092 is the port of katka
- Press ctol +c to stop writing messages.

what if a topic does not exist?

- A warning will appear (leader-not-available).
- Kafka will create that topic for you and next time you write there will be so warningferrors because the topic comes in existing list now.
- -It is always better to have the topic created first and then write to it as conice writing the topic are

created with default properties.

- You can change default properties in server properties eg no of replicas by default etc.

kafka-console-producer -- broker-list (27.0.0.1: 9092--topic topic3
-- producer-property acks = all

# \* Kafka console consumer CLI

Imp: Apache Kafka consumer will consume only those mersager which are produced when the consumer was in active state.

-The order of mescage may change when there are multiple partition. Within a partition the messages will be read in order.

kaska-console-consumer --bootstrap-server 127.0.0.1:9092 -- topic first-topic

To read from beginning.

kaska-console-consumer -- bootstap-sener localhost: 9092 -- topic

topici -- from-beginning.

Note: The order of Messages in consumer is not 'total', it is per partition. Order is only guaranteed within a partition. If you try a topic with I partition you will see total ordering.

# \* Katka consumers in groups.

Kafka-console-consumer.sh --bootstrap-server localnost: 9092 --topic mytopic --group my-first-group

In 3 terminals, run same I command to get 3 consumers in the group. You will see that wad is being distributed amongst them. If one of them goes down others will handle the loss automatically.

Now, if you want to read from beginning use -- from-beginning. Note if you stop the consumer and re-run the command it will not run from beginning now. Because group how been specified and offset has been stored so it will only read never messages.

-- topic topicz -- group my-second-group -- from-beginning

\* Katka consumer groups CLI

list all consumer groups, describe a consumer group, delete consumer group info, or reset consumer group offsets.

LIST- LIST au consumer groups

katka-consumer-groups -- bootstrap-semer localhost: 9092 -- list

### DESCRIBE

Katka-consumer-groups -- boutstrap-server bcalhost: 9092 -- describe -- group my-second-application

### RESET-OFFSETS

Resets offset of consumer group. Supports one consumer at a time, the instance should be inactive.

rejet specifications: - -- to-datetime, -- by-period, to -earliest.
to-later, -shift-by, from-file, to -current.

to-earliest -> at beginning again

kafka-consumer-groups.sh -- bootstrap-server bocalhost: 9092
-- group my-first-group -- reset-offsets -- to-earliest -- execute
--topic first-topic