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**Setting Up Kafka**

MacWindows

* Make sure you are inside the **bin/windows** directory.

**Start Zookeeper and Kafka Broker**

* Start up the Zookeeper.

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

* Start up the Kafka Broker.

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

**How to create a topic ?**

kafka-topics.bat --create --topic test-topic -zookeeper localhost:2181 --replication-factor 1 --partitions 4

**How to instantiate a Console Producer?**

**Without Key**

kafka-console-producer.bat --broker-list localhost:9092 --topic test-topic

**With Key**

kafka-console-producer.bat --broker-list localhost:9092 --topic test-topic --property "key.separator=-" --property "parse.key=true"

**How to instantiate a Console Consumer?**

**Without Key**

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

**With Key**

kafka-console-consumer.bat --bootstrap-server localhost:9092 --topic test-topic --from-beginning -property "key.separator= - " --property "print.key=true"

**With Consumer Group**

kafka-console-consumer.bat --bootstrap-server localhost:9092 --topic test-topic --group <group-name>

**Setting Up Multiple Kafka Brokers**

* The first step is to add a new **server.properties**.
* We need to modify three properties to start up a multi broker set up.

broker.id=<unique-broker-d>

listeners=PLAINTEXT://localhost:<unique-port>

log.dirs=/tmp/<unique-kafka-folder>

auto.create.topics.enable=false

* Example config will be like below.

broker.id=1

listeners=PLAINTEXT://localhost:9093

log.dirs=/tmp/kafka-logs-1

auto.create.topics.enable=false

**Starting up the new Broker**

* Provide the new **server.properties** thats added.

./kafka-server-start.sh ../config/server-1.properties

./kafka-server-start.sh ../config/server-2.properties

**Advanced Kafka CLI operations:**

MacWindows

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**Setting Up Kafka**

MacWindows

**Setting Up Multiple Kafka Brokers**

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listeners=PLAINTEXT://localhost:<unique-port>

log.dirs=/tmp/<unique-kafka-folder>

auto.create.topics.enable=false

* Example config will be like below.

broker.id=1

listeners=PLAINTEXT://localhost:9093

log.dirs=/tmp/kafka-logs-1

auto.create.topics.enable=false

**Starting up the new Broker**

* Provide the new **server.properties** thats added.

./kafka-server-start.sh ../config/server-1.properties

./kafka-server-start.sh ../config/server-2.properties

**Advanced Kafka CLI operations:**

MacWindows

* Make sure you are inside the **bin/windows** directory.

**List the topics in a cluster**

kafka-topics.bat --zookeeper localhost:2181 --list

**Describe topic**

* The below command can be used to describe all the topics.

kafka-topics.bat --zookeeper localhost:2181 --describe

* The below command can be used to describe a specific topic.

kafka-topics.bat --zookeeper localhost:2181 --describe --topic <topic-name>

**Alter the min insync replica**

kafka-topics.bat --alter --zookeeper localhost:2181 --topic library-events --config min.insync.replicas=2

**Delete a topic**

kafka-topics.bat --zookeeper localhost:2181 --delete --topic <topic-name>

**How to view consumer groups**

kafka-consumer-groups.bat --bootstrap-server localhost:9092 --list

**Consumer Groups and their Offset**

kafka-consumer-groups.bat --bootstrap-server localhost:9092 --describe --group console-consumer-27773

**Viewing the Commit Log**

kafka-run-class.bat kafka.tools.DumpLogSegments --deep-iteration --files /tmp/kafka-logs/test-topic-0/00000000000000000000.log

E:\MicroService\kafka\_2.12-2.2.1\bin\windows

Kafka version used - kafka\_2.12-2.2.1

C:\Program Files\Java\jdk-11.0.7

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