Pre-requisite:

Apache Kafka 3.3.1

Java 1.8

Windows 10

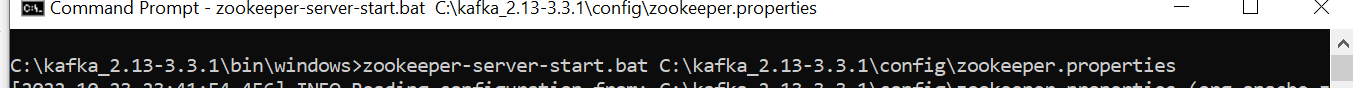
In this proof of concept, we will be using Apache kafka 3.3.1 on windows 10. we'll use 2 brokers, 1 zookeeper instance and we'll create one topic. please use the following steps after downloading the Apache Kafka 3.3.1.

Let us assume that the Apache Kafka downloaded is extracted in a folder.

C:\kafka\_2.13-3.3.1

In this setup we'll be starting two brokers on the same windows machine, we need to create two separate configuration files in the config folder please check the attached server.properties. there will be only one zookeeper service for the two broker services

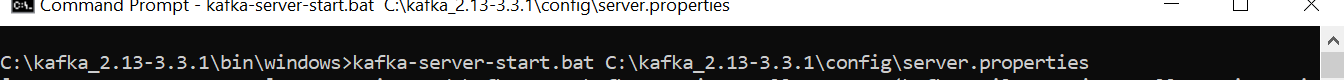
1. please start the zookeeper service



Please see the zookeeper.properties in the repository.

zookeeper-server-start.bat C:\kafka\_2.13-3.3.1\config\zookeeper.properties

1. Start the first broker as follows:



Please see the server dot properties in the repository

1. start the second broker as follows



Please see the server one dot properties in the repository

1. Create a topic as follows:

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

Description automatically generated

Apache Kafka Overview:

Graphical user interface, diagram

Description automatically generated

How to test

Please build the application using maven

**mvn clean package**

**#Create topic**

**access the kafka bin/windows folder and use the following command to create a topic.**

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

**# producer**

**java -Daction=producer -Dbroker=localhost:9092,localhost:9093 -Dtopic=cityinfo -jar .\target\kafka-producer-consumer-0.0.1-SNAPSHOT.jar**

**#consumer**

**java -DGroupName=cityConsumerGrp -Daction=consumer -Dbroker=localhost:9092,localhost:9093 -Dtopic=cityinfo -jar .\target\kafka-producer-consumer-0.0.1-SNAPSHOT.jar**