Team 31 – PhisherMan

CMPE 272

Fall 2021

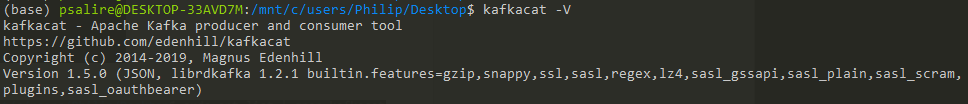
Kafka Assignment

1. *Spin up dockerized containers for Kafka and Zookeeper using Kafka on Docker*
   1. Run the provided Docker Compose based Kafka cluster (kafka/docker-compose.yml):

Graphical user interface, text, application

Description automatically generated

1. *Install kafkacat*
   1. Install Kafkacat via “apt install kafkacat” and check version:



* 1. Verify that it can connect to our Kafka cluster:

Text

Description automatically generated

1. *Create a topic in the Kafka cluster using kafkacat*
   1. Create a new topic:



* 1. Verify that the topic was created by consuming the topic:



1. *Produce to and consume from the topic using kafkacat*
   1. Run a Producer and Consumer simultaneously with Kafkacat:

Graphical user interface, text, application

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1. *Write a Java application to produce and consume from the Kafka topic using the kafka-clients directory in the repo*

Often, Kafka Consumers are used to push to a database. As such, we’ve developed some code by modifying the kafka-clients code, which produces by reading from a CSV file and consumes to push to a SQLite database:

* 1. Build the source with mvn package
  2. Run the Consumer with java -cp target\kafka-client-java.jar assignment2.Consumer
  3. Run the Producer with java -cp target\kafka-client-java.jar assignment2.Producer example.csv

Text

Description automatically generated

(Producer on the left, Consumer on the right)

* 1. Query assignment2.sqlite that was created and see that the CSV values were inserted

Graphical user interface, application

Description automatically generated