

Graded Assignment 4.2

Name: Saad Sameer Khan

Employee #: 2303.KHI.DEG.034

Collaborated with: Hamza Mohammad Asim (2303.KHI.DEG.014)

1. Running the containers with Docker compose.

```
saadsameerkhan@all-MS-7D35: ~/data_engineering_bootcamp_2303/tasks/4_microservices_development/day_2_kafka/playing_with_kafka
(base) saadsameerkhan@all-MS-7D35:~/data_engineering_bootcamp_2303/tasks/4_microservices_development/day_2_kafka/playing_with_kafka$ docker-compose up -d
Starting zookeeper ... done
Starting broker ... done
```

2. Creating a new topic with the name ‘new_topic’ with the broker. container in the docker-compose to be used as the bootstrap server.

```
(base) saadsameerkhan@all-MS-7D35:~/data_engineering_bootcamp_2303/tasks/4_microservices_development/day_2_kafka/playing_with_kafka$ docker-compose exec broker kafka-topics
--bootstrap-server broker:9092 --create --topic new_topic
WARNING: Due to limitations in metric names, topics with a period ('.') or underscore ('_') could collide. To avoid issues it is best to use either, but not both.
Created topic new_topic.
```

3. Listing all created/running topics.

```
(base) saadsameerkhan@all-MS-7D35:~/data_engineering_bootcamp_2303/tasks/4_microservices_development/day_2_kafka/playing_with_kafka$ docker-compose exec broker kafka-topics
--bootstrap-server broker:9092 --list --list
__consumer_offsets
events
new_topic
```

4. Inspecting the topics “new_topic” and “events” (created earlier) to view their number of partitions. We see that both topics have a single partition having an ID 1.

```
(base) saadsameerkhan@all-MS-7D35:~/data_engineering_bootcamp_2303/tasks/4_microservices_development/day_2_kafka/playing_with_kafka$ docker-compose exec broker kafka-topics
--bootstrap-server broker:9092 --describe --topic new_topic
Topic: new_topic      TopicId: 6aeluAq7RH-egdkQfv7bsg PartitionCount: 1      ReplicationFactor: 1      Configs:
  Topic: new_topic    Partition: 0      Leader: 1      Replicas: 1      Isr: 1
(base) saadsameerkhan@all-MS-7D35:~/data_engineering_bootcamp_2303/tasks/4_microservices_development/day_2_kafka/playing_with_kafka$ docker-compose exec broker kafka-topics
--bootstrap-server broker:9092 --describe --topic events
Topic: events         TopicId: _BjAMiqcSe60EnowKK1D-g PartitionCount: 1      ReplicationFactor: 1      Configs:
  Topic: events       Partition: 0      Leader: 1      Replicas: 1      Isr: 1
```