

Peer Assignment

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Assignment (4.2)

Start Kafka using docker-compose and:

1. Create a topic.
2. List Kafka topics.
3. Inspect one of them to see the number of partitions.

Solution

1. We use docker compose to run our containers.

```
sabih@sheikh-muhammad-sabih:~/Documents/emeritus/may_8/assignments$ docker compose up -d
[+] Running 3/3
 ✓ Network assignments_default Created                                0.1s
 ✓ Container zookeeper Started                                       0.3s
 ✓ Container broker Started                                          0.6s
```

2. We have created **topics** with name event1 and event2 in **kafka** with partitions 3 and 5.

```
docker compose exec broker kafka-topics --create --topic event1 --bootstrap-server broker:9092 --partitions 3
docker compose exec broker kafka-topics --create --topic event2 --bootstrap-server broker:9092 --partitions 5
```

```
Created topic event1.
Created topic event2.
```

3. Then we list the topics.

```
docker compose exec broker kafka-topics --list --bootstrap-server broker:9092
```

```
event1
event2
```

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4. Now we can see the partitions by using **describe**.

```
docker compose exec broker kafka-topics --describe --bootstrap-server broker:9092
```

```
Topic: event1  TopicId: AKRgZflUTPmLmTthEAnS2Q PartitionCount: 3      ReplicationFactor: 1      Configs:
  Topic: event1 Partition: 0      Leader: 1      Replicas: 1      Isr: 1
  Topic: event1 Partition: 1      Leader: 1      Replicas: 1      Isr: 1
  Topic: event1 Partition: 2      Leader: 1      Replicas: 1      Isr: 1
Topic: event2  TopicId: fdtBZimAQbaaoJ2nLd3zGQ PartitionCount: 5      ReplicationFactor: 1      Configs:
  Topic: event2 Partition: 0      Leader: 1      Replicas: 1      Isr: 1
  Topic: event2 Partition: 1      Leader: 1      Replicas: 1      Isr: 1
  Topic: event2 Partition: 2      Leader: 1      Replicas: 1      Isr: 1
  Topic: event2 Partition: 3      Leader: 1      Replicas: 1      Isr: 1
  Topic: event2 Partition: 4      Leader: 1      Replicas: 1      Isr: 1
```