

Multiple brokers

Docker command

1. To start kafka process

1. Start yml process

```
docker-compose up -d
```

2. To create a new topic

1. Start the broker (kafka1)

```
docker exec -it kafka1 /bin/bash
```

2. Create a new topic

```
kafka-topics --bootstrap-server localhost:9092 --create --topic randomTopic --partitions 2  
--replication-factor 3
```

3. To create a producer

1. Start producer

```
kafka-console-producer --bootstrap-server localhost:9092 --topic  
randomTopic
```

- Type somethings

4. To create a consumer

1. Open a new terminal

2. Start the broker (kafka2)

```
docker exec -it kafka2 /bin/bash
```

3. Start consuming

```
kafka-console-consumer --bootstrap-server localhost:9092 --topic  
randomTopic --from-beginning
```

Miscellaneous commands

List all topics

```
kafka-topics --bootstrap-server localhost:9092 --list
```

Describe a topic

```
kafka-topics --bootstrap-server localhost:9092 --describe --topic randomTopic
```

Delete a topic

```
kafka-topics --bootstrap-server localhost:9092 --delete --topic <topic_name>
```

Question

What happens if one broker is shut down?

Reference

1. <https://docs.ksqldb.io/en/latest/concepts/apache-kafka-primer/>
2. More understanding about partition and offset
<https://developer.confluent.io/tutorials/kafka-console-consumer-read-specific-offsets-partitions/kafka.html>
3. How to use key value
 - a. kafka-console-producer --bootstrap-server localhost:9092 --topic t1 --property "parse.key=true" --property "key.separator=,"
>aaa,test9