

ASSIGNMENT 4.2
on
Asynchronous messaging and Kafka

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Task 01 :

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.

1. Creating topic

```
haseebullah@all-MS-7035: ~/Haseebullah Learnings/Git-Assignment/Haseebullah-Shaikh-2303.KHI.DEG.015-/Module-4/Assignment 4.2
(base) haseebullah@all-MS-7035:~/Haseebullah Learnings/Git-Assignment/Haseebullah-Shaikh-2303.KHI.DEG.015-/Module-4/Assignment 4.2$ sudo docker compose up -d
[+] Running 3/3
 ✓ Network assignment42_default Created
 ✓ Container zookeeper Started
 ✓ Container broker Started
(base) haseebullah@all-MS-7035:~/Haseebullah Learnings/Git-Assignment/Haseebullah-Shaikh-2303.KHI.DEG.015-/Module-4/Assignment 4.2$ ./create_kafka_topic.sh events
Created topic events.
(base) haseebullah@all-MS-7035:~/Haseebullah Learnings/Git-Assignment/Haseebullah-Shaikh-2303.KHI.DEG.015-/Module-4/Assignment 4.2$ ./create_kafka_topic.sh messages
Created topic messages.
(base) haseebullah@all-MS-7035:~/Haseebullah Learnings/Git-Assignment/Haseebullah-Shaikh-2303.KHI.DEG.015-/Module-4/Assignment 4.2$
```

2. Listing Kafka topics

```
(base) haseebullah@all-MS-7035:~/Haseebullah Learnings/Git-Assignment/Haseebullah-Shaikh-2303.KHI.DEG.015-/Module-4/Assignment 4.2$ sudo docker compose exec broker kafka-topics --bootstrap-server localhost:9092 --list
events
messages
(base) haseebullah@all-MS-7035:~/Haseebullah Learnings/Git-Assignment/Haseebullah-Shaikh-2303.KHI.DEG.015-/Module-4/Assignment 4.2$
```

3. Inspecting partitions in each topic

```
(base) haseebullah@all-MS-7035:~/Haseebullah Learnings/Git-Assignment/Haseebullah-Shaikh-2303.KHI.DEG.015-/Module-4/Assignment 4.2$ sudo docker compose exec broker kafka-topics --bootstrap-server localhost:9092 --describe --topic events
Topic: events TopicId: S-jlgOWoTMueorISshy0dg PartitionCount: 1 ReplicationFactor: 1 Configs:
Topic: events Partition: 0 Leader: 1 Replicas: 1 Isr: 1
(base) haseebullah@all-MS-7035:~/Haseebullah Learnings/Git-Assignment/Haseebullah-Shaikh-2303.KHI.DEG.015-/Module-4/Assignment 4.2$ sudo docker compose exec broker kafka-topics --bootstrap-server localhost:9092 --describe --topic messages
Topic: messages TopicId: jABEehwCRtnHds6nLLTjzw PartitionCount: 1 ReplicationFactor: 1 Configs:
Topic: messages Partition: 0 Leader: 1 Replicas: 1 Isr: 1
(base) haseebullah@all-MS-7035:~/Haseebullah Learnings/Git-Assignment/Haseebullah-Shaikh-2303.KHI.DEG.015-/Module-4/Assignment 4.2$
```