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1. First, we configured the create_kafka_topic.sh file so that it creates topics and presents a list of all topics after creating.

```
4.2_assignment > playing_with_kafka > $ create_kafka_topic.sh
1  #!/bin/bash
2
3
4  # Commands to create topics
5
6  docker-compose exec broker kafka-topics --create --topic events_initial --bootstrap-server broker:9092
7  docker-compose exec broker kafka-topics --create --topic events_urgent --bootstrap-server broker:9092
8  docker-compose exec broker kafka-topics --create --topic events_consumer --bootstrap-server broker:9092 --partitions 4
9  # //////////////////////////////////
10
11
12  # Command to list all Topics
13  docker-compose exec broker kafka-topics --bootstrap-server broker:9092 --list
14  |
```

2. Running Docker compose.

```
Stopping zookeeper ... done
(base) muhammadsafi@all-MS-7035:~/Desktop/assignment_repo/tasks/4.2_assignment/playing_with_kafka$ docker-compose up -d
/snap/docker/2746/lib/python3.6/site-packages/paramiko/transport.py:32: CryptographyDeprecationWarning: Python 3.6 is no longer supported by the Python core team. Therefore, support for it is d
eprecated in cryptography. The next release of cryptography (40.0) will be the last to support Python 3.6.
  from cryptography.hazmat.backends import default_backend
Starting zookeeper ... done
Starting broker ... done
```

3. Running create_kafka_topic.sh to run the script and display the list of all created topics.

```
(base) muhammadsafi@all-MS-7035:~/Desktop/assignment_repo/tasks/4.2_assignment/playing_with_kafka$ ./create_kafka_topic.sh
/snap/docker/2746/lib/python3.6/site-packages/paramiko/transport.py:32: CryptographyDeprecationWarning: Python 3.6 is no longer supported by the Python core team. Therefore, support for it is deprecated in cryptography. The next release of cryptography (40.0) will be the last to support Python 3.6.
  from cryptography.hazmat.backends import default_backend
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 events initial.
/snap/docker/2746/lib/python3.6/site-packages/paramiko/transport.py:32: CryptographyDeprecationWarning: Python 3.6 is no longer supported by the Python core team. Therefore, support for it is deprecated in cryptography. The next release of cryptography (40.0) will be the last to support Python 3.6.
  from cryptography.hazmat.backends import default_backend
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 events urgent.
/snap/docker/2746/lib/python3.6/site-packages/paramiko/transport.py:32: CryptographyDeprecationWarning: Python 3.6 is no longer supported by the Python core team. Therefore, support for it is deprecated in cryptography. The next release of cryptography (40.0) will be the last to support Python 3.6.
  from cryptography.hazmat.backends import default_backend
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 events consumer.
/snap/docker/2746/lib/python3.6/site-packages/paramiko/transport.py:32: CryptographyDeprecationWarning: Python 3.6 is no longer supported by the Python core team. Therefore, support for it is deprecated in cryptography. The next release of cryptography (40.0) will be the last to support Python 3.6.
  from cryptography.hazmat.backends import default_backend
events_consumer
events_initial
events_urgent
```

4. Running the --describe command to inspect the partitions in events_consumer topic.

```
(base) muhammadsafi@all-MS-7035:~/Desktop/assignment_repo/tasks/4.2_assignment/playing_with_kafka$ docker-compose exec broker kafka-topics --bootstrap-server localhost:9092 --topic events_consumer --describe
/snap/docker/2746/lib/python3.6/site-packages/paramiko/transport.py:32: CryptographyDeprecationWarning: Python 3.6 is no longer supported by the Python core team. Therefore, support for it is deprecated in cryptography. The next release of cryptography (40.0) will be the last to support Python 3.6.
  from cryptography.hazmat.backends import default_backend
Topic: events_consumer TopicId: sRCnIOVUS0WR9he-BdoZjA PartitionCount: 4 ReplicationFactor: 1 Configs:
  Topic: events_consumer Partition: 0 Leader: 1 Replicas: 1 Isr: 1
  Topic: events_consumer Partition: 1 Leader: 1 Replicas: 1 Isr: 1
  Topic: events_consumer Partition: 2 Leader: 1 Replicas: 1 Isr: 1
  Topic: events_consumer Partition: 3 Leader: 1 Replicas: 1 Isr: 1
(base) muhammadsafi@all-MS-7035:~/Desktop/assignment_repo/tasks/4.2_assignment/playing_with_kafka$
```