

Início rápido

- Primeiramente devemos realizar a instalação do docker-compose
- Criar o arquivo docker-compose.yml

```

version: '3'
services:
  # https://hub.docker.com/r/confluentinc/cp-zookeeper
  zookeeper:
    image: confluentinc/cp-zookeeper:latest
    environment:
      ZOOKEEPER_CLIENT_PORT: 2181
      ZOOKEEPER_TICK_TIME: 2000

  # https://hub.docker.com/r/confluentinc/cp-kafka
  kafka:
    # "-----"
    # An important note about accessing Kafka from clients on other machines:
    # -----
    #
    # The config used here exposes port 9092 for _external_ connections to the broker
    # i.e. those from _outside_ the docker network. This could be from the host machine
    # running docker, or maybe further afield if you've got a more complicated setup.
    # If the latter is true, you will need to change the value 'localhost' in
    # KAFKA_ADVERTISED_LISTENERS to one that is resolvable to the docker host from those
    # remote clients
    #
    # For connections _internal_ to the docker network, such as from other services
    # and components, use kafka:29092.
    #
    # See https://rmoff.net/2018/08/02/kafka-listeners-explained/ for details
    # "-----"
    image: confluentinc/cp-kafka:latest
    depends_on:
      - zookeeper
    ports:
      - 9092:9092
    environment:
      KAFKA_BROKER_ID: 1
      KAFKA_ZOOKEEPER_CONNECT: zookeeper:2181
      KAFKA_ADVERTISED_LISTENERS: PLAINTEXT://kafka:29092,PLAINTEXT_HOST://localhost:9092
      KAFKA_LISTENER_SECURITY_PROTOCOL_MAP: PLAINTEXT:PLAINTEXT,PLAINTEXT_HOST:PLAINTEXT
      KAFKA_INTER_BROKER_LISTENER_NAME: PLAINTEXT
      KAFKA_OFFSETS_TOPIC_REPLICATION_FACTOR: 1

```

- Iniciando os containers do Kafka + Zookeeper via docker-compose

```
docker-compose stop && docker-compose rm -f && docker-compose up -d
```

- Acessando o container do Kafka

```
docker-compose exec kafka bash
```

- Verificando a versão do Kafka

```
./usr/bin/kafka-broker-api-versions --bootstrap-server localhost:9092 --version
```

- Criando o primeiro tópico com 3 partições e fator de replicação de 1

```
./usr/bin/kafka-topics --zookeeper zookeeper:2181 --create --topic quickstart-events --partitions 3 --replication-factor 1 --if-not-
```

- Listando os tópicos

```
./usr/bin/kafka-topics --zookeeper zookeeper:2181 --list
```

- Listando os detalhes do tópico

```
./usr/bin/kafka-topics --zookeeper zookeeper:2181 --topic quickstart-events --describe
```

- Enviando mensagens para o tópico

```
./usr/bin/kafka-console-producer --broker-list localhost:9092 --topic quickstart-events
```

- Consumindo as mensagens do início

```
./usr/bin/kafka-console-consumer --bootstrap-server localhost:9092 --topic quickstart-events --from-beginning
```