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How to Produce Messages to Kafka Topics using Apache Kafka CLI

Apache Kafka is a distributed streaming platform that allows you to publish and subscribe to streams of data. In this tutorial, you will learn how to use the Apache Kafka command-line interface (CLI) to produce messages to Kafka topics.

A Kafka topic is a logical name for a stream of data. You can create multiple topics in Kafka, and each topic can have multiple partitions. Partitions are the units of parallelism in Kafka, and they allow you to scale up your data processing.

How to produce messages to Kafka topics without a key

To produce messages to Kafka topics without a key, you will use the `kafka-console-producer.sh` script that comes with the Kafka installation. This script allows you to send messages to a Kafka topic from the standard input (stdin).

Before you run the script, you need to make sure that you have a running Kafka cluster.

In this tutorial, I will assume that you have a Kafka cluster running on `localhost:9092`. You can change this to match your cluster configuration.

To produce messages to a Kafka topic called `product-created-events-topic`, you can run the following command in a terminal:

```
./kafka-console-producer.sh --bootstrap-server localhost:9092 --topic product-created-events-topic
```

The `--bootstrap-server` option specifies the address of the Kafka broker that the producer will connect to. The `--topic` option specifies the name of the topic that the producer will send messages to.

After you run the command, you will see a `>` prompt, indicating that the producer is ready to accept messages from stdin. You can type any message you want, and press enter to send it to the topic. For example: