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Kafka Producer CLI Tutorial

How to send data into Kafka?

The Kafka console producer CLI, kafka-console-producer is used to read data from standard input and publish it to Kafka. Make sure you have **started Kafka** beforehand.

CLI Extensions

Use CLI commands with appropriate extensions for your platform, e.g., kafka-console-producer.bat for windows, kafka-console-producer.sh for Linux and Mac

How to Produce a Message into a Kafka Topic using the CLI?

To produce to a Kafka topic, we need to provide the mandatory parameters:

Find your Kafka hostname and port e.g., localhost:9092

If Kafka v2.5+, use the --bootstrap-server option

If older version of Kafka, use the --broker-list option

Provide the mandatory parameters: topic name

Use the kafka-console-producer.sh CLI as outlined below

Example

Make sure the topic first_topic is already created with 3 partitions and a replication factor of 1:

.sh

1 kafka-topics.sh --bootstrap-server localhost:9092 --topic first_topic --create

Start producing to the topic:

Kafka v2.5+:

.sh

1 kafka-console-producer.sh --bootstrap-server localhost:9092 --topic first_topic

◆

Kafka v2.4 or less:

.sh

1 kafka-console-producer.sh --broker-list localhost:9092 --topic first topic

To exit the Kafka console producer, use the keyboard combination Ctrl+C.

Command Output

1 >

After the producer is opened, you should see a > sign. Then any line of text you write afterwards will be sent to the Kafka topic (when pressing Enter)

- 1 \$ kafka-console-producer --bootstrap-server localhost:9092 --topic first topic
- 2 >Hello World
- 3 >My name is Conduktor

```
4 >I love Kafka
5 >^C (<- Ctrl + C is used to exit the producer)
```

Gotchas

←

Here are the common mistakes and caveats with the kafka-console-producer.sh command:

Messages are sent with the null key by default (see below for more options)

If the topic does not exist, it can be auto-created by Kafka:

A topic with the name provided should exist. If you specify a topic that does not exist yet, a new topic with the name provided will be created with the **default number of partitions and replication** factor.

These are controlled by the broker-side settings (in your config/server.properties file), with the following defaults:

```
1 auto.create.topics.enable=true
2 num.partitions=1
```

3 default.replication.factor=1

Extra Important options you can set (advanced)

```
--compression-codec
To enable message compression, default gzip, possible values 'none', 'gzip', 'snappy',
'lz4', or 'zstd'
--producer-property
```

To pass in any producer property, such as the acks=all setting

--request-required-acks

An alternative to set the acks setting directly

How to produce messages from a file with the Kafka Console Producer CLI?

Example file topic-input.txt (make sure each message is on a new line)

- Hello World
- 2 My name is Stephane

Produce messages to the topic from the file (see the end of the command)

1 kafka-console-producer.sh --bootstrap-server localhost:9092 --topic first_topic

How to produce messages with key in the Kafka Console Producer CLI?

By default messages sent to a Kafka topic will result in messages with null keys.

We must use the properties parse.key and key.separator to send the key alongside messages.

In this example, the separator between the key and the value is: :

.sh

1 kafka-console-producer.sh --bootstrap-server localhost:9092 --topic first_topic

Example input:

- 1 >example key:example value
- 2 >name:Stephane

Do not forget to always include your key/value separator otherwise you will get an exception.



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