Kafka Setup

Make sure you download the binaries

Kafka needs Zookeeper, so we will start Zookeeper using below command.

|  |  |
| --- | --- |
|  | kafka\_2.12-2.0.0\bin\windows\zookeeper-server-start.bat kafka\_2.12-2.0.0\config\zookeeper.properties |

Start a new command window and start Kafka Broker using below command.

|  |  |
| --- | --- |
|  | kafka\_2.12-2.0.0\bin\windows\kafka-server-start.bat kafka\_2.12-2.0.0\config\server.properties |

Execute below command to test the Zookeeper and Kafka broker registration to the Zookeeper server.

|  |  |
| --- | --- |
|  | kafka\_2.12-2.0.0\bin\windows\zookeeper-shell.bat localhost:2181 ls /brokers/ids |

You can create a new Kafka topic using below command.

|  |  |
| --- | --- |
|  | kafka\_2.12-2.0.0\bin\windows\kafka-topics.bat --create --zookeeper localhost:2181 --replication-factor 1 --partitions 1 --topic test |

[**view raw**](https://gist.github.com/LearningJournal/c246cfbda6661bbc567dd6cb38403b78/raw/193fca602689c82c62a740440dc8a55b066acc8e/KA44.sh)[**KA44.sh**](https://gist.github.com/LearningJournal/c246cfbda6661bbc567dd6cb38403b78#file-ka44-sh) hosted with ❤ by [**GitHub**](https://github.com/)

You can list the available topics using below command.

|  |  |
| --- | --- |
|  | kafka\_2.12-2.0.0\bin\windows\kafka-topics.bat --list --zookeeper localhost:2181 |

[**view raw**](https://gist.github.com/LearningJournal/c246cfbda6661bbc567dd6cb38403b78/raw/193fca602689c82c62a740440dc8a55b066acc8e/KA45.sh)[**KA45.sh**](https://gist.github.com/LearningJournal/c246cfbda6661bbc567dd6cb38403b78#file-ka45-sh) hosted with ❤ by [**GitHub**](https://github.com/)

You can start a console producer and send some messages using below command.

|  |  |
| --- | --- |
|  | kafka\_2.12-2.0.0\bin\windows\kafka-console-producer.bat --broker-list localhost:9092 --topic test |

[**view raw**](https://gist.github.com/LearningJournal/c246cfbda6661bbc567dd6cb38403b78/raw/193fca602689c82c62a740440dc8a55b066acc8e/KA46.sh)[**KA46.sh**](https://gist.github.com/LearningJournal/c246cfbda6661bbc567dd6cb38403b78#file-ka46-sh) hosted with ❤ by [**GitHub**](https://github.com/)

You can start a console consumer and check the messages that you sent using below command.

|  |  |
| --- | --- |
|  | kafka\_2.12-2.0.0\bin\windows\kafka-console-consumer.bat --bootstrap-server localhost:9092 --topic test --from-beginning |

Rkafka – as an alternative

producer1 = rkafka.createProducer("172.31.16.0:9092")

rkafka.send(producer1, "testKafka", "172.31.16.0:9092", "TestingKafka")

consumer1 = rkafka.createConsumer("172.31.16.0:9092", "testKafka")

from kafka/bin/windows run:

kafka-topics.bat --create --zookeeper localhost:2181 --replication-factor 1 --partitions 1 --topic test

created topic test

from /windows

kafka-console-producer.bat --broker-list localhost:9092 --topic test

**Some Other Useful Commands**

1. List Topics: kafka-topics.bat --list --zookeeper localhost:2181
2. Describe Topic: kafka-topics.bat --describe --zookeeper localhost:2181 --topic [Topic Name]
3. Read messages from the beginning
   1. Before version < 2.0: kafka-console-consumer.bat --zookeeper localhost:2181 --topic [Topic Name] --from-beginning
   2. After version > 2.0:  kafka-console-consumer.bat --bootstrap-server localhost:9092 --topic [Topic Name] --from-beginn
4. Delete Topic: kafka-run-class.bat kafka.admin.TopicCommand --delete --topic [topic\_to\_delete] --zookeeper localhost:2181

kafka-topics[#](https://sodocumentation.net/apache-kafka/topic/8990/kafka-console-tools#kafka-topics) - from another source

This tool let you list, create, alter and describe topics.

**List topics:**

kafka-topics --zookeeper localhost:2181 --list

**Create a topic:**

kafka-topics --create --zookeeper localhost:2181 --replication-factor 1 --partitions 1 --topic test

creates a topic with one partition and no replication.

**Describe a topic:**

kafka-topics --zookeeper localhost:2181 --describe --topic test

**Alter a topic:**

# change configuration

kafka-topics --zookeeper localhost:2181 --alter --topic test --config max.message.bytes=128000

# add a partition

kafka-topics --zookeeper localhost:2181 --alter --topic test --partitions 2

(Beware: Kafka does not support reducing the number of partitions of a topic) (see [this list of configuration properties](https://kafka.apache.org/documentation/#topic-config))

kafka-console-producer[#](https://sodocumentation.net/apache-kafka/topic/8990/kafka-console-tools#kafka-console-producer)

This tool lets you produce messages from the command-line.

**Send simple string messages to a topic:**

kafka-console-producer --broker-list localhost:9092 --topic test

here is a message

here is another message

^D

(each new line is a new message, type ctrl+D or ctrl+C to stop)

**Send messages with keys:**

kafka-console-producer --broker-list localhost:9092 --topic test-topic \

--property parse.key=true \

--property key.separator=,

key 1, message 1

key 2, message 2

null, message 3

^D

**Send messages from a file:**

kafka-console-producer --broker-list localhost:9092 --topic test\_topic < file.log

kafka-console-consumer[#](https://sodocumentation.net/apache-kafka/topic/8990/kafka-console-tools#kafka-console-consumer)

This tool let's you consume messages from a topic.

to use the old consumer implementation, replace --bootstrap-server with --zookeeper.

**Display simple messages:**

kafka-console-consumer --bootstrap-server localhost:9092 --topic test

**Consume old messages:**

In order to see older messages, you can use the --from-beginning option.

**Display key-value messages**:

kafka-console-consumer --bootstrap-server localhost:9092 --topic test-topic \

--property print.key=true \

--property key.separator=,