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Guide for setup and configure
Apache Kafka

Introduction.

This guide has been created for windows users so the configuration can change depending of the O.S you are using.
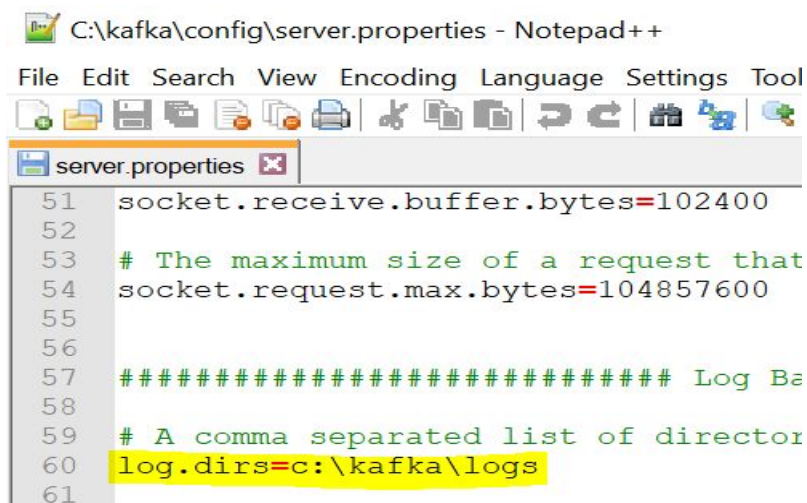
Prerequisites.

Java 8. (*Preferably*).

Download Apache Kafka.

Download the last version of Apache Kafka from the official website.
https://kafka.apache.org/downloads

- **Modify Kafka file '***server.properties***'.**
  C:\kafka\config\server.properties

Open the file

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Download Zookeeper.

https://www.apache.org/dyn/closer.cgi/zookeeper/

Then navigate to the next 'URL' and install 'stable' version preferably.
https://www-us.apache.org/dist/zookeeper/
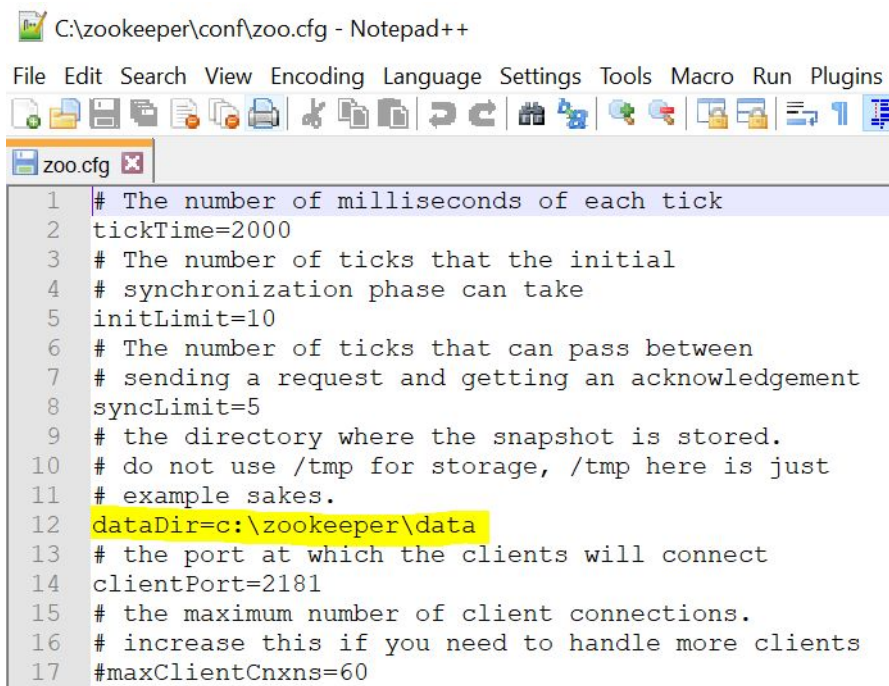
Name	Last modified	Size
Parent Directory		-
current/	2019-04-01 14:46	-
stable/	2019-04-01 14:46	-
zookeeper-3.4.14/	2019-04-01 14:46	-
zookeeper-3.5.4-beta/	2018-10-25 08:35	-
KEYS	2019-02-06 13:18	54K

- **Modify Zookeeper file.**
  C:\zookeeper\conf\zoo.cfg

Open the file xoo.cfg preferably in Notepad++ previously installed in your local machine and modify the *dataDir* as shown in the example below.

C:\zookeeper\conf\zoo.cfg - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins

zoo.cfg

```
1   # The number of milliseconds of each tick
2   tickTime=2000
3   # The number of ticks that the initial
4   # synchronization phase can take
5   initLimit=10
6   # The number of ticks that can pass between
7   # sending a request and getting an acknowledgement
8   syncLimit=5
9   # the directory where the snapshot is stored.
10  # do not use /tmp for storage, /tmp here is just
11  # example sakes.
12  dataDir=c:\zookeeper\data
13  # the port at which the clients will connect
14  clientPort=2181
15  # the maximum number of client connections.
16  # increase this if you need to handle more clients
17  #maxClientCnxns=60
```
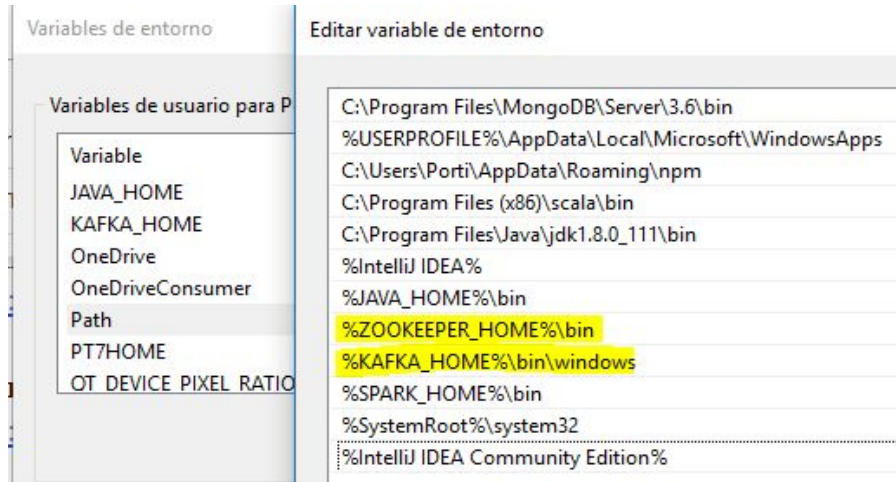
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Environment variables:

Add the next environment variables with the corresponding directory path where you have been installed and saved zookeeper and kafka files:

- ZOOKEEPER_HOME
- KAFKA_HOME

Then add the environment variables to the 'path' as shown in the following image:

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Start services:

Zookeeper server

bin/zookeeper-server-start.bat config/zookeeper.properties

or

dir:\zookeeper\bin**zkServer** (*this succesfully worked for me*).

Once Zookeeper server is running we can proceed to start Kafka server.

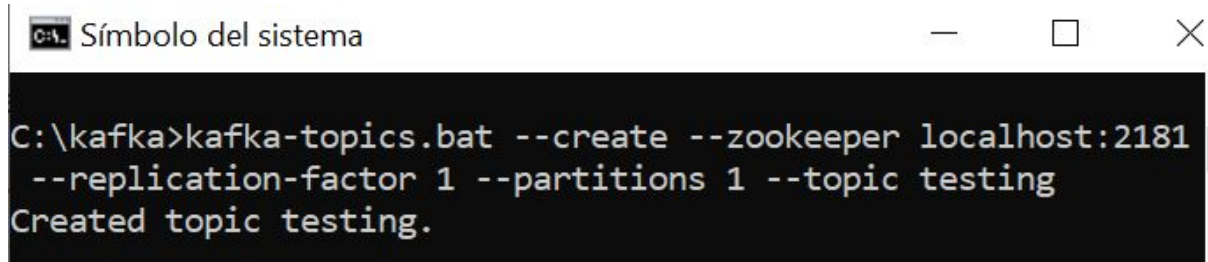## Kafka server.

kafka-server-start.sh config/server.properties
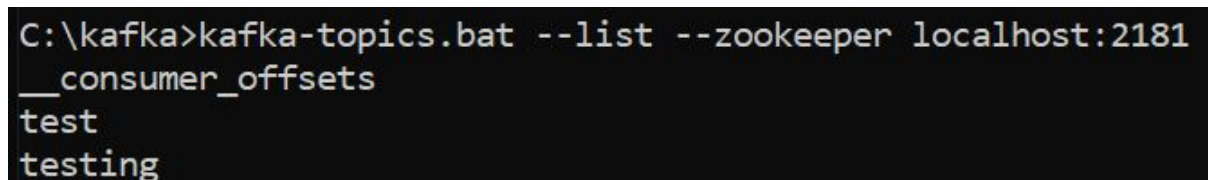
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Producer and Consumers.

At this point Zookeeper server and Kafka server have been initialized so you can start getting involve creating messages from a '*Producer*' to a '*Consumer*' by the cmd console of your PC as you will see in the next example:

Create a topic.

```
C:\kafka>kafka-topics.bat --create --zookeeper localhost:2181
 --replication-factor 1 --partitions 1 --topic testing
Created topic testing.
```
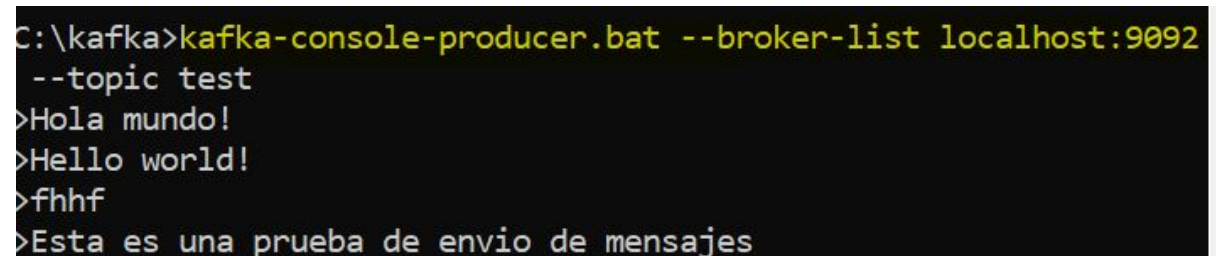
List of topics created

```
C:\kafka>kafka-topics.bat --list --zookeeper localhost:2181
__consumer_offsets
test
testing
```
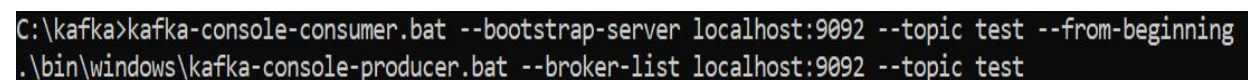
Producer

Initialize a Producer sending some messages.

```
C:\kafka>kafka-console-producer.bat --broker-list localhost:9092
 --topic test
>Hola mundo!
>Hello world!
>fhhf
>Esta es una prueba de envio de mensajes
```
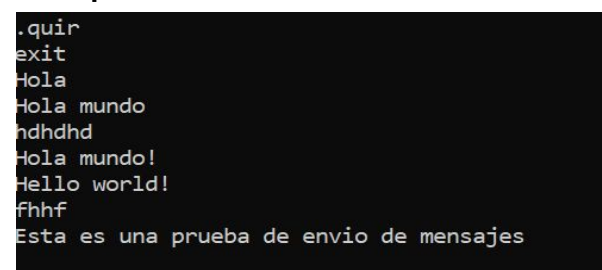
Consumer

Initialize consumer. This consumer console will receive the messages sent by Producer console.

```
C:\kafka>kafka-console-consumer.bat --bootstrap-server localhost:9092 --topic test --from-beginning
.\bin\windows\kafka-console-producer.bat --broker-list localhost:9092 --topic test
```

Example:

```
.quir
exit
Hola
Hola mundo
hdhdhd
Hola mundo!
Hello world!
fhhf
Esta es una prueba de envio de mensajes
```

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References.

Guides.
Kafka Guide
https://kafka.apache.org/quickstart

Zookeeper Guide
https://zookeeper.apache.org/doc/r3.3.3/zookeeperStarted.html

Tutorials and additional resources.
Tutorial to setup and configure Apache Kafka. (Windows).
https://www.youtube.com/watch?v=OJKesEpO6ok&t=558s

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(Open Source)
https://www.analyticshut.com/apache-kafka-tutorial/

(Not Open Source)
- Apache Kafka Series - Learn Apache Kafka for Beginners

https://learning.oreilly.com/videos/apache-kafka-series/9781789342604