# Kafka Messaging

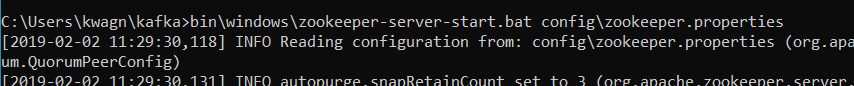
## Kafka Console

### Download & extract

cd C:\Users\kwagn\kafka\bin\windows

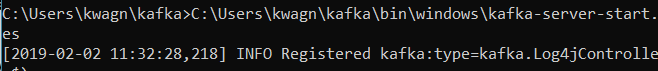
### Start zookeeper

C:\Users\kwagn\kafka\bin\windows\zookeeper-server-start.bat C:\Users\kwagn\kafka\config\zookeeper.properties



### Start kafka

C:\Users\kwagn\kafka\bin\windows\kafka-server-start.bat C:\Users\kwagn\kafka\config\server.properties

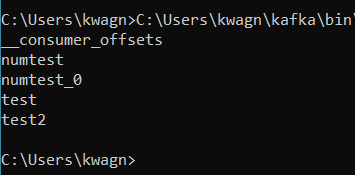


### Create topic

C:\Users\kwagn\kafka\bin\windows\kafka-topics.bat --create --zookeeper localhost:2181 --replication-factor 1 --partitions 1 --topic test

### Show available topics

C:\Users\kwagn\kafka\bin\windows\kafka-topics.bat --list --zookeeper localhost:2181



### Initiate a producer

C:\Users\kwagn\kafka\bin\windows\kafka-console-producer.bat --broker-list localhost:9092 --topic test

>input

### Stored in logs

Windows (C:) > tmp > kafka-logs > test-O 
Name 
00000000000000000000. index 
oooooooooooooooooooo.log 
leader-epoch-checkpoint 

### Show the message log

kafka-run-class.bat kafka.tools.DumpLogSegments --deep-iteration --print-data-log --files \tmp\kafka-logs\test-0\00000000000000000000.log

tarting offset: e 
fset: e position: 
0 CreateTime: 1547465113478 isvalid: true keysize: -1 valuesize: 5 magic: 2 compresscodec: 
WNE producerld: 
-1 producerEpoch: -1 sequence: -1 isTransactiona1: false headerKeys: l] payload: Hello 
fset: 1 position: 
73 createTime: 1547465115027 isvalid: true keysize. 
• -1 valuesize: 5 magic: 2 compresscodec 
WNE producerld: 
-1 producerEpoch: 
-1 sequence: -1 isTransactiona1: false headerKeys: [l payload: World 
fset: 2 position: 
146 CreateTime: 154746545624ø isvalid: true keysize: -1 valuesize: 4 magic: 2 compresscode 
WNE producerld: 
-1 producerEpoch: -1 sequence: -1 isTransactiona1: false headerKeys: [l payload: Moin 

### Consuming messages

C:\Users\kwagn\kafka\bin\windows\kafka-console-consumer.bat --bootstrap-server localhost:9092 --topic test --from-beginning



### Second consumer

C:\Users\kwagn\kafka\bin\windows\kafka-console-consumer.bat --bootstrap-server localhost:9092 --topic test2 --group group2

mand Prompt - 
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: Wsers : s \kafka - console - 
producer. bat 
- -broker-list --topic test2 
>ha110 
>test 
Command Prompt - - 
:licrosoft Windows [Version 10.0-17134. 523] 
(c) 2e18 Microsoft Corporation. All rights reserved. 
C : \Users \ kwagn>C : \Users \ kwagn -console - consumer. bat 
"ver localhost:gø92 - -topic test2 --from-beginning 
hallo 
test 
(c) 2018 microsoft Corporation. All rights reserved. 
--bQQt 
: : \kafka- console -consumer. bat 
er localhost:9Ø92 - -topic test2 
- -group group2 
- - bootstrap - se 
-bootstrap-serv 

## Kafka Python

<https://towardsdatascience.com/kafka-python-explained-in-10-lines-of-code-800e3e07dad1>

### Start zookeeper, kafka and create topic

C: \Users \Users \kwagn \kafka \bin -topics. bat 
Created topic "numtest" 
- create 
- -zookeeper 2181 
-replication-factor I 
- -partitions I 
-topic numtest 

### Coding a producer / consumer demo

### Testing

Start zookeeper + start kafka + start demo

#### Broker Problems

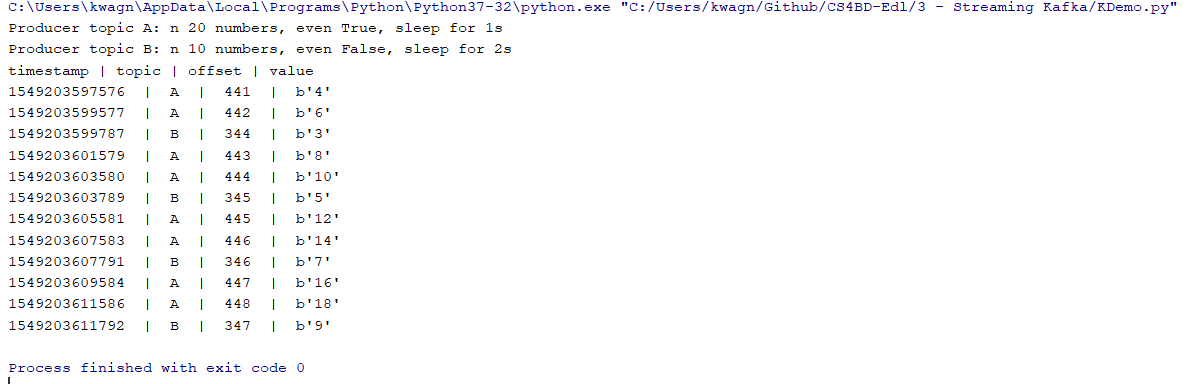
kafka.errors.NoBrokersAvailable: NoBrokersAvailable



<https://stackoverflow.com/questions/47168342/kafka-1-0-stops-with-fatal-shutdown-error-logs-directory-failed>

after restart, the topic need to be recreated

#### Log from a successful run



# Kafka Streams

# AlphaGo

