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setting up Apache Kafka in windows



F Notes

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1. Download and Setup Java 8 JDK

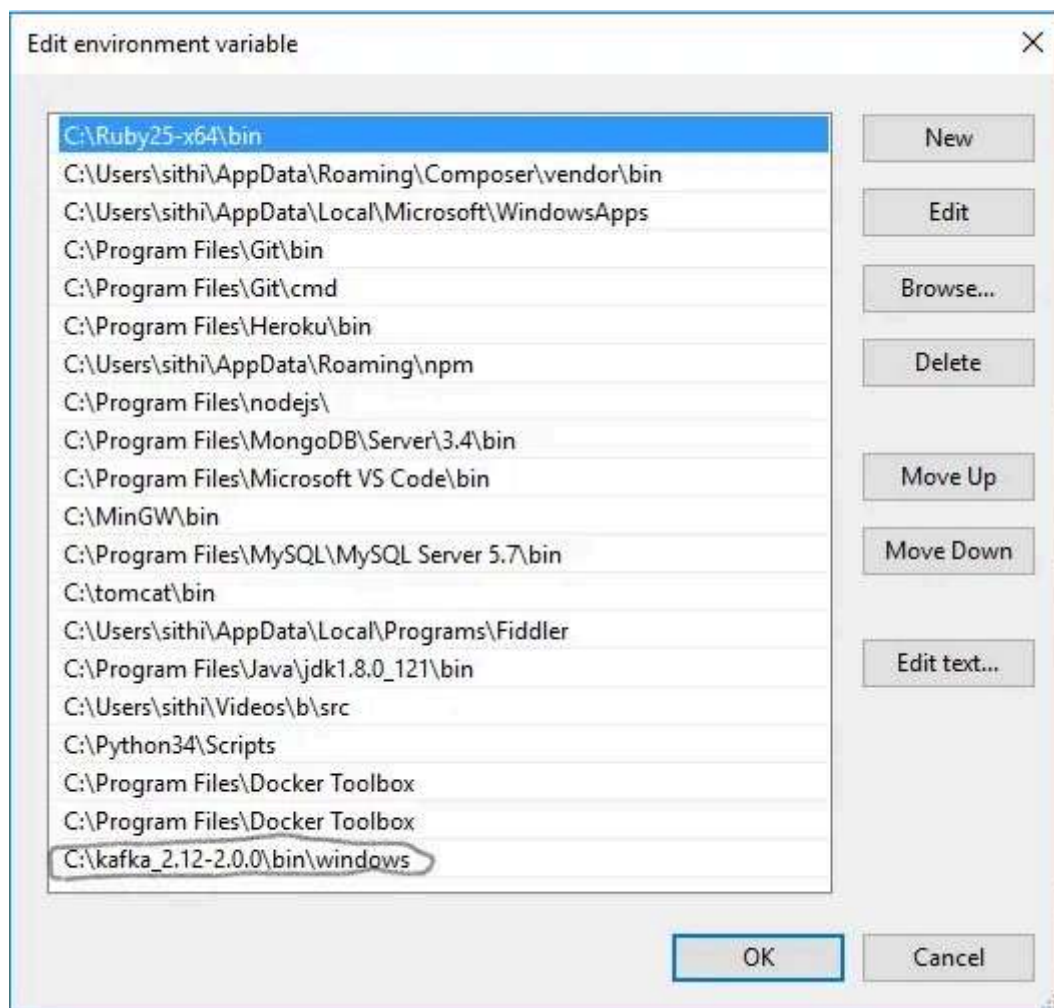
2. Download the Kafka binaries from <https://kafka.apache.org/downloads>

3. Extract Kafka at the root of c:\

4. Setup Kafka bins in the **Environment variables** section by editing **Path**

added the following path to the user variables in environmental variables

C:\kafka_2.12-2.0.0\bin\windows



1. Try Kafka commands using `kafka-topics.bat` (for example)

```

Microsoft Windows [Version 10.0.16299.431]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\sithi>kafka-topics.bat
Create, delete, describe, or change a topic.
Option                                     Description
-----
--alter                                   Alter the number of partitions,
                                         replica assignment, and/or
                                         configuration for the topic.
--config <String: name=value>            A topic configuration override for the
                                         topic being created or altered.The
                                         following is a list of valid
                                         configurations:
                                         cleanup.policy
                                         compression.type
                                         delete.retention.ms
                                         file.delete.delay.ms
                                         flush.messages
                                         flush.ms
                                         follower.replication.throttled.
                                         replicas
                                         index.interval.bytes
                                         leader.replication.throttled.replicas
                                         max.message.bytes
                                         message.downconversion.enable
                                         message.format.version
                                         message.timestamp.difference.max.ms
                                         message.timestamp.type
                                         min.cleanable.dirty.ratio

```

kafka commands in comandline

if the environement variables are set properly you willl get the abpve output.since the env varibalesa are set ypu wont have to always call from the root directory.

then make a new directory in the root folder named data

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inside this make another 2 folders zookeeper and kafka ,copy the paths to both these folders and go to config folder and in zookeeper.properties and server.properties files add these new paths.

Local Disk (C:) > kafka_2.12-2.0.0

| Name | Date modified | Type | Size |
|-----------|-------------------|-------------|-------|
| bin | 9/4/2018 8:07 PM | File folder | |
| config | 9/4/2018 8:07 PM | File folder | |
| data | 9/4/2018 8:15 PM | File folder | |
| libs | 9/4/2018 8:07 PM | File folder | |
| site-docs | 9/4/2018 8:07 PM | File folder | |
| LICENSE | 7/24/2018 7:47 PM | File | 29 KB |
| NOTICE | 7/24/2018 7:47 PM | File | 1 KB |

create data folder and add another 2 folders inside it kafka and zookeeper

in Local Disk (C:) > kafka_2.12-2.0.0 > data

| Name | Date modified | Type |
|-----------|------------------|-------------|
| kafka | 9/4/2018 8:24 PM | File folder |
| zookeeper | 9/4/2018 8:20 PM | File folder |

inside data folder

copy the 2 paths to these two folders because we need to include them in config files . C:\kafka_2.12-2.0.0\data\zookeeper & C:\kafka_2.12-2.0.0\data\kafka

follow the below mentioned steps

1. Edit Zookeeper & Kafka configs using NotePad++ <https://notepad-plus-plus.org/download/>

here i used sublime text .you can use your preferred text editor to get this done.

in Local Disk (C:) > kafka_2.12-2.0.0 > config

| Name | Date modified | Type | Size |
|-------------------------------|-------------------|-----------------|------|
| connect-log4j.properties | 7/24/2018 7:47 PM | PROPERTIES File | 2 KB |
| connect-standalone.properties | 7/24/2018 7:47 PM | PROPERTIES File | 3 KB |
| consumer.properties | 7/24/2018 7:47 PM | PROPERTIES File | 2 KB |
| log4j.properties | 7/24/2018 7:47 PM | PROPERTIES File | 5 KB |
| producer.properties | 7/24/2018 7:47 PM | PROPERTIES File | 2 KB |
| server.properties | 9/4/2018 8:22 PM | PROPERTIES File | 7 KB |
| tools-log4j.properties | 7/24/2018 7:47 PM | PROPERTIES File | 2 KB |
| trogdor.conf | 7/24/2018 7:47 PM | CONF File | 2 KB |
| zookeeper.properties | 9/4/2018 8:17 PM | PROPERTIES File | 2 KB |

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| | | | |
|-------------------------------|-------------------|-----------------|------|
| connect-log4j.properties | 7/24/2018 7:47 PM | PROPERTIES File | 2 KB |
| connect-standalone.properties | 7/24/2018 7:47 PM | PROPERTIES File | 3 KB |
| consumer.properties | 7/24/2018 7:47 PM | PROPERTIES File | 2 KB |
| log4j.properties | 7/24/2018 7:47 PM | PROPERTIES File | 5 KB |
| producer.properties | 7/24/2018 7:47 PM | PROPERTIES File | 2 KB |
| server.properties | 9/4/2018 8:22 PM | PROPERTIES File | 7 KB |
| tools-log4j.properties | 7/24/2018 7:47 PM | PROPERTIES File | 2 KB |
| trogdor.conf | 7/24/2018 7:47 PM | CONF File | 2 KB |
| zookeeper.properties | 9/4/2018 8:17 PM | PROPERTIES File | 2 KB |

edit these files and add new path to newly created zookeeper and kafka folders in data folder

zookeeper.properties: `dataDir=C:/kafka_2.12-2.0.0/data/zookeeper` (yes the slashes are inversed)

server.properties: `log.dirs=C:/kafka_2.12-2.0.0/data/kafka` (since this is windows make all the backward slashes forward slashes ,yes the slashes are inversed)

1. Start Zookeeper in one command line: `zookeeper-server-start.bat config\zookeeper.properties`

zookeeper server will start running

1. Start Kafka in **another** command line: `kafka-server-start.bat config\server.properties`

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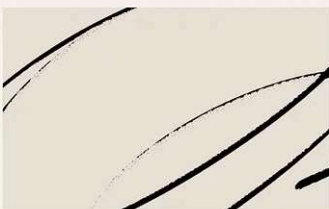
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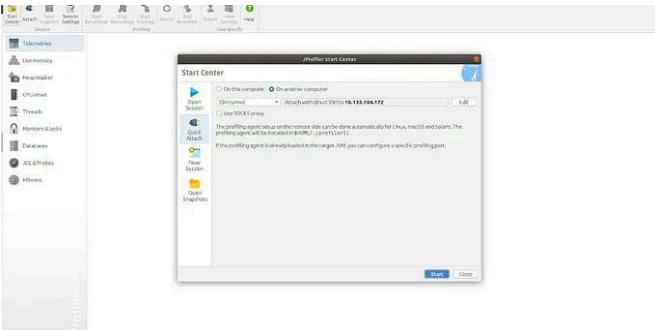




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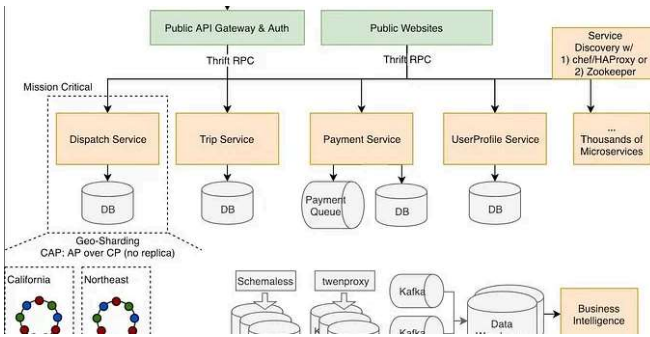
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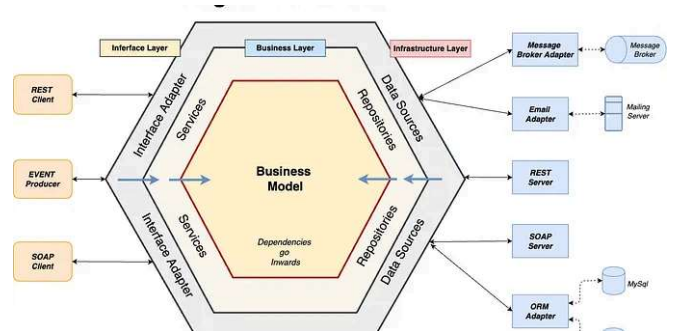


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