

Install Apache Kafka on Windows

STEP 1: Install JAVA 8 SDK and make sure java SDK installed successfully.

C:\Windows\System32\cmd.exe

```
d:\>java -version
java version "1.8.0_221"
Java(TM) SE Runtime Environment (build 1.8.0_221-b11)
Java HotSpot(TM) 64-Bit Server VM (build 25.221-b11, mixed mode)
d:\>
```

STEP 2: Download and Install Apache Kafka Binaries

We will Apache Kafka binaries for installing Apache Kafka. Go to Apache Kafka official download page (<https://kafka.apache.org/downloads>) and download the binaries.

Download

2.5.0 is the latest release. The current stable version is 2.5.0.

You can verify your download by following these [procedures](#) and using these [KEYS](#).

2.5.0

- Released April 15, 2020
- [Release Notes](#)
- Source download: [kafka-2.5.0-src.tgz](#) ([asc](#), [sha512](#))
- Binary downloads:
 - **Scala 2.12** - [kafka_2.12-2.5.0.tgz](#) ([asc](#), [sha512](#))
 - **Scala 2.13** - [kafka_2.13-2.5.0.tgz](#) ([asc](#), [sha512](#))

We build for multiple versions of Scala. This only matters if you are using Scala and you want a version built for the same Scala version you use. Otherwise any version should work (2.12 is recommended).

Kafka 2.5.0 includes a number of significant new features. Here is a summary of some notable changes:

In The Next Page



We suggest the following mirror site for your download:

https://mirrors.estointernet.in/apache/kafka/2.5.0/kafka_2.12-2.5.0.tgz

Other mirror sites are suggested below.

It is essential that you verify the integrity of the downloaded file using the PGP signature (`.asc` file) or a hash (`.md5` or `.sha*` file).

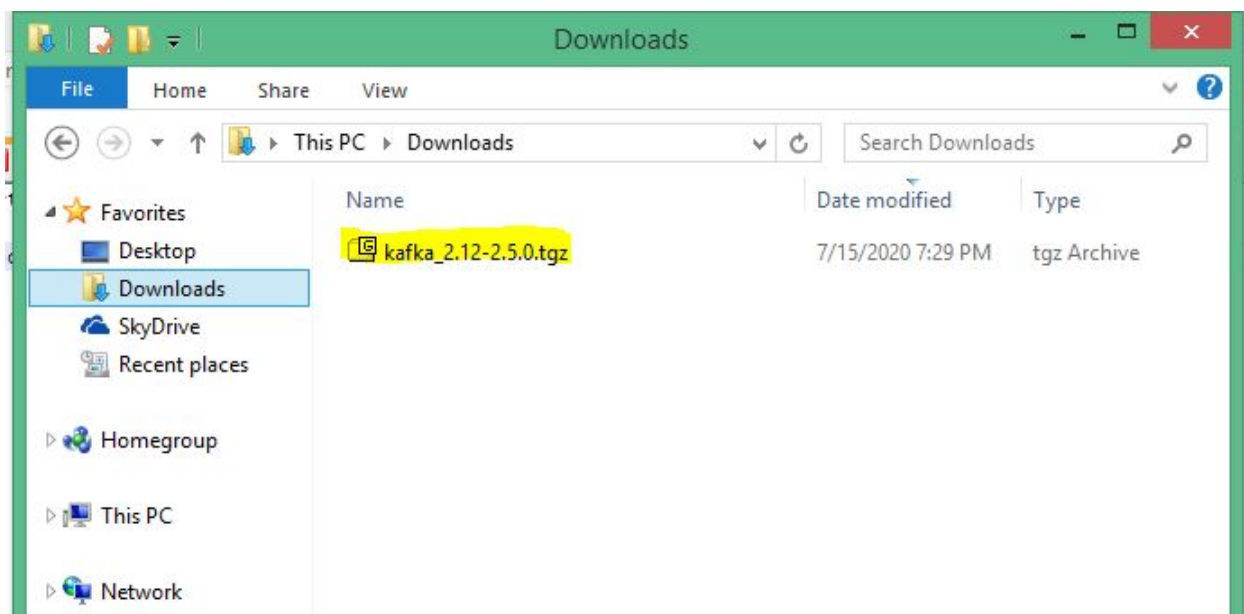
Please only use the backup mirrors to download KEYS, PGP signatures and hashes (SHA* etc) -- or if no other mirrors are working.

HTTP

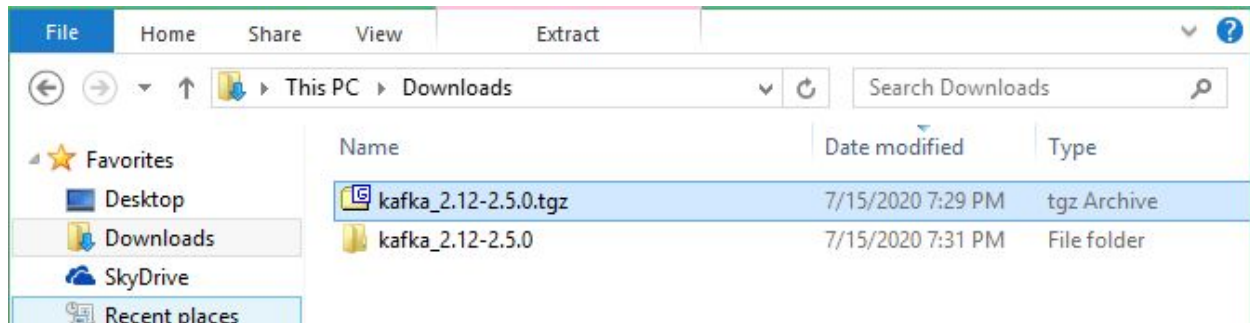
http://apachemirror.wuchna.com/kafka/2.5.0/kafka_2.12-2.5.0.tgz

https://mirrors.estointernet.in/apache/kafka/2.5.0/kafka_2.12-2.5.0.tgz

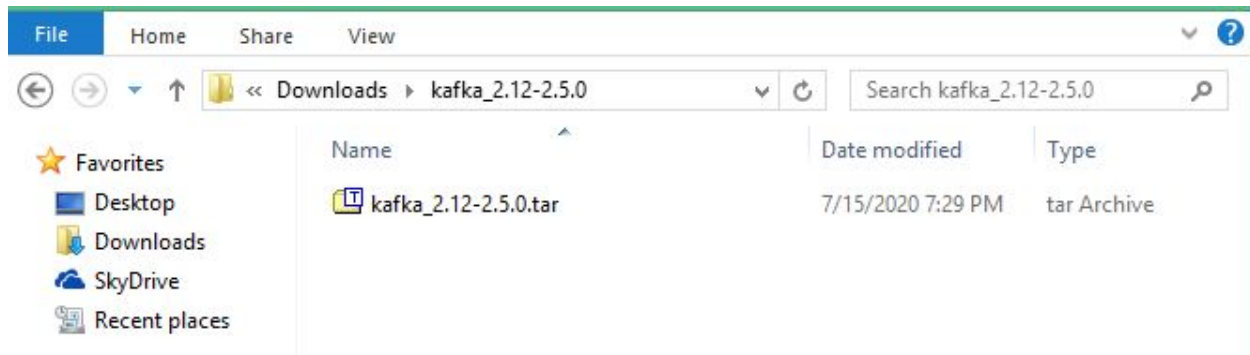
A Zip file will download



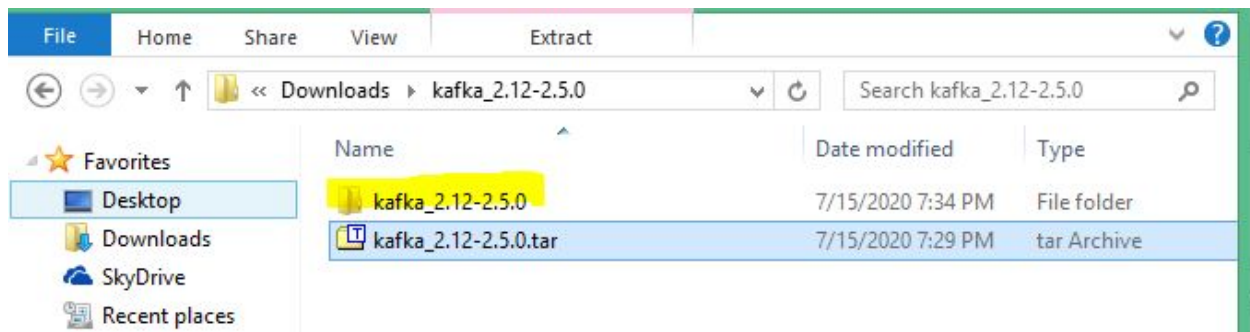
Unzip this file using winrar or 7zip or any other tools.



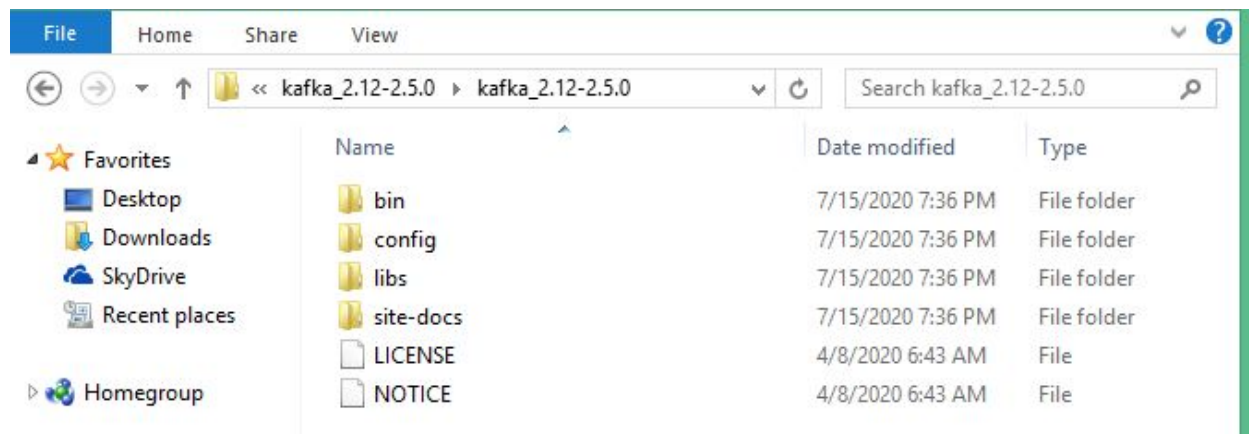
Go Inside Unzipped folder the you will get one more zip file



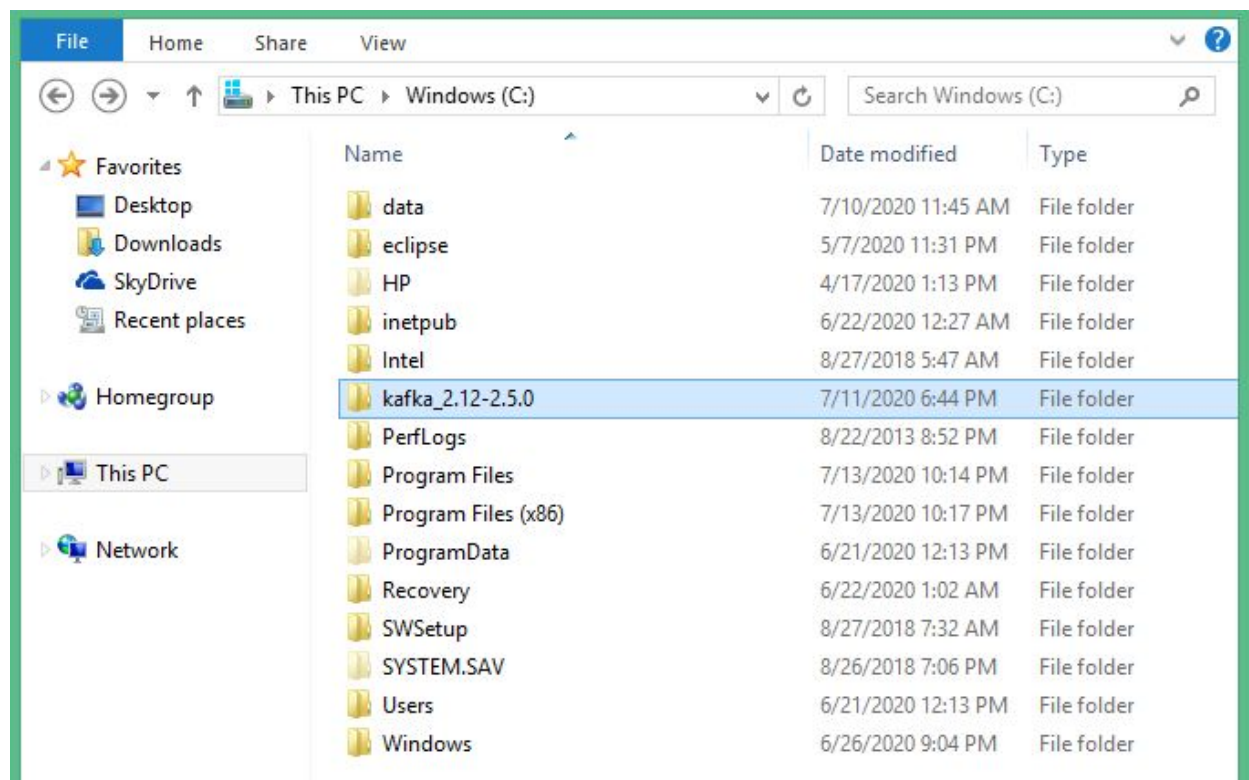
Unzip This file again



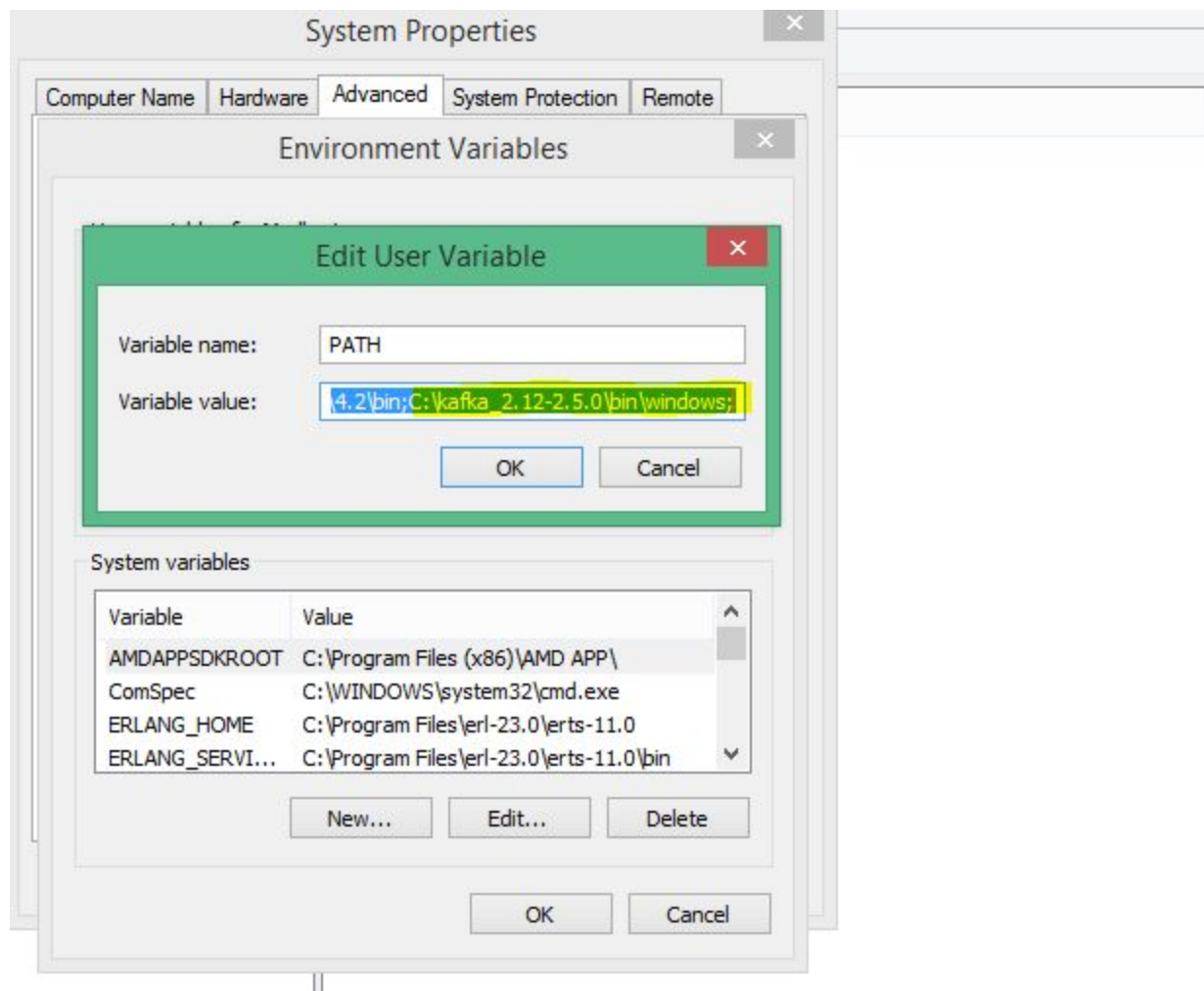
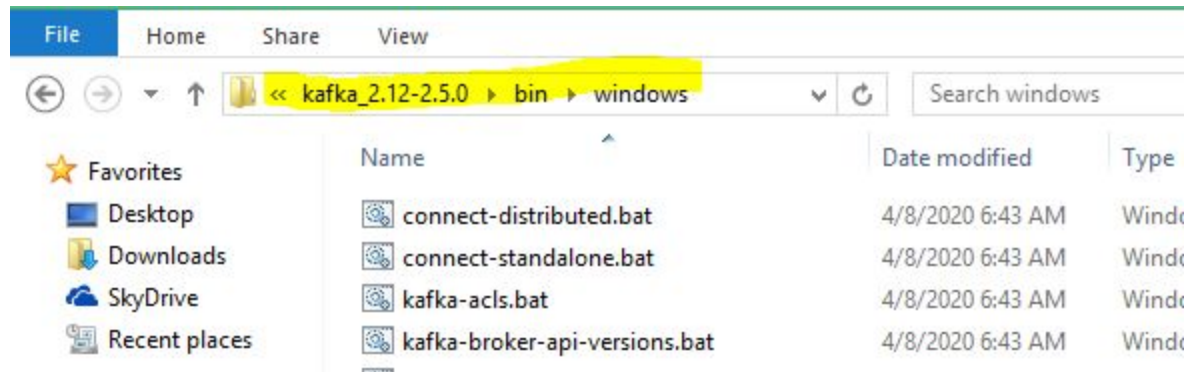
You will get below files inside the folder



Take this folder and keep it into your c: or d: drive directly



Step : 3 Take below path and set into environment variables



Click Ok->Ok->Ok(Open again and make sure it got sticked)

Step:4 Now go to any directory and make sure below command is working


```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

E:\>kafka-topics.bat
```

If it works the you will find something like below

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

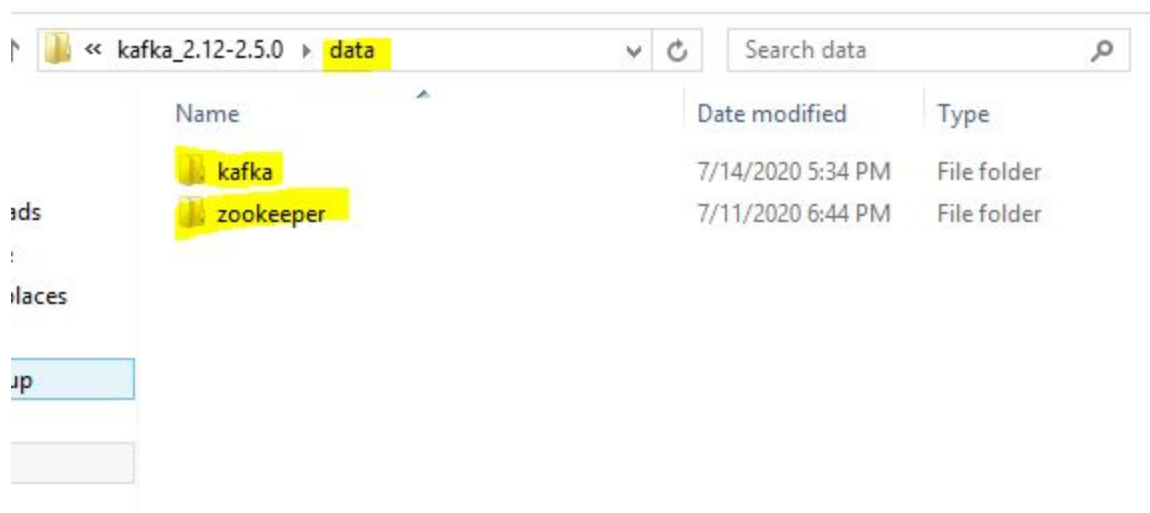
E:\>kafka-topics.bat
Create, delete, describe, or change a topic.
Option                                Description
-----                                -
--alter                                Alter the number of partitions,
                                     replica assignment, and/or
                                     configuration for the topic.
--at-min-isr-partitions                if set when describing topics, only
                                     show partitions whose isr count is
                                     equal to the configured minimum. Not
                                     supported with the --zookeeper
                                     option.
```

Now create data folder

Windows Explorer view showing the contents of the `kafka_2.12-2.5.0` directory. The `data` folder is highlighted.

| Name | Date modified | Type |
|-----------|-------------------|-------------|
| bin | 7/11/2020 1:55 PM | File folder |
| config | 7/11/2020 1:56 PM | File folder |
| data | 7/11/2020 6:40 PM | File folder |
| libs | 7/11/2020 1:56 PM | File folder |
| logs | 7/15/2020 8:06 PM | File folder |
| site-docs | 7/11/2020 1:56 PM | File folder |
| LICENSE | 4/8/2020 6:43 AM | File |
| NOTICE | 4/8/2020 6:43 AM | File |

Inside data folder create kafka and zookeeper folder as below



STEP 5: Change the default configuration value

Update zookeeper data directory path in “config/zookeeper.Properties” configuration file. (Keep the path correct with backslash as below)

```
# See the license for the specific language governing
# limitations under the License.
# the directory where the snapshot is stored.
dataDir=C:/kafka_2.12-2.5.0/data/zookeeper
# the port at which the clients will connect
clientPort=2181
```

Update Apache Kafka log file path in “config/server.properties” configuration file.

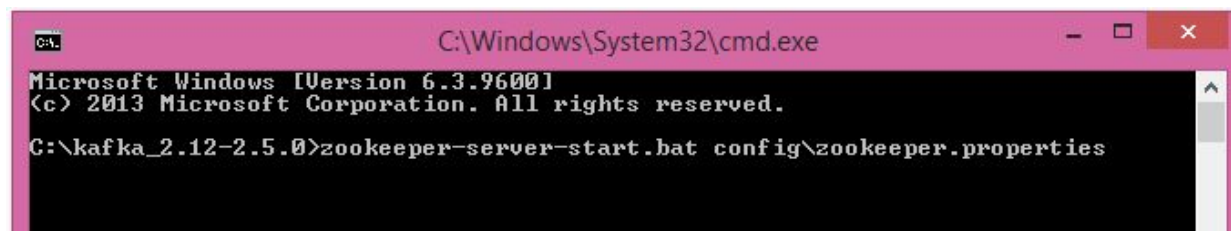
```
##### Log Basics #####

# A comma separated list of directories under which to store log files
log.dirs=C:/kafka_2.12-2.5.0/data/kafka

# The default number of log segments per topic. Most topics have at least
```

STEP 6: Start Zookeeper

zookeeper-server-start.bat config\zookeeper.properties

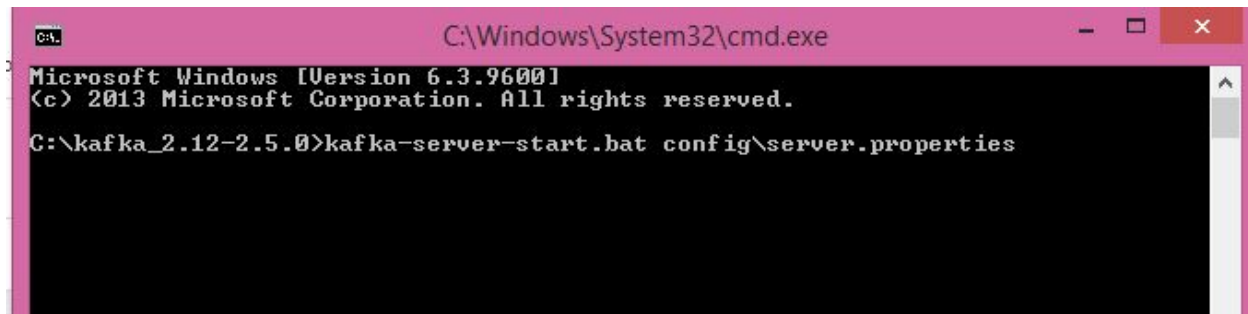


make sure zookeeper started successfully

```
[2020-07-15 20:06:05,292] INFO Configuring NIO connection handler with 10s sessionless connection timeout, 1 selector thread(s), 8 worker threads, and 64 kB direct buffers. <org.apache.zookeeper.server.NIOServerCnxnFactory>  
[2020-07-15 20:06:05,320] INFO binding to port 0.0.0.0/0.0.0.0:2181 <org.apache.zookeeper.server.NIOServerCnxnFactory>  
[2020-07-15 20:06:05,378] INFO zookeeper.snapshotSizeFactor = 0.33 <org.apache.zookeeper.server.ZKDatabase>  
[2020-07-15 20:06:05,639] INFO Reading snapshot C:\kafka_2.12-2.5.0\data\zookeeper\version-2\snapshot.d8 <org.apache.zookeeper.server.persistence.FileSnap>
```

STEP 6: Start Apache Kafka(Start in new command prompt)

kafka-server-start.bat config\server.properties



The screenshot shows a Windows Command Prompt window titled "C:\Windows\System32\cmd.exe". The window content displays the following text:

```
Microsoft Windows [Version 6.3.9600]  
(c) 2013 Microsoft Corporation. All rights reserved.  
  
C:\kafka_2.12-2.5.0>kafka-server-start.bat config\server.properties
```

This will start our Apache Kafka successfully.