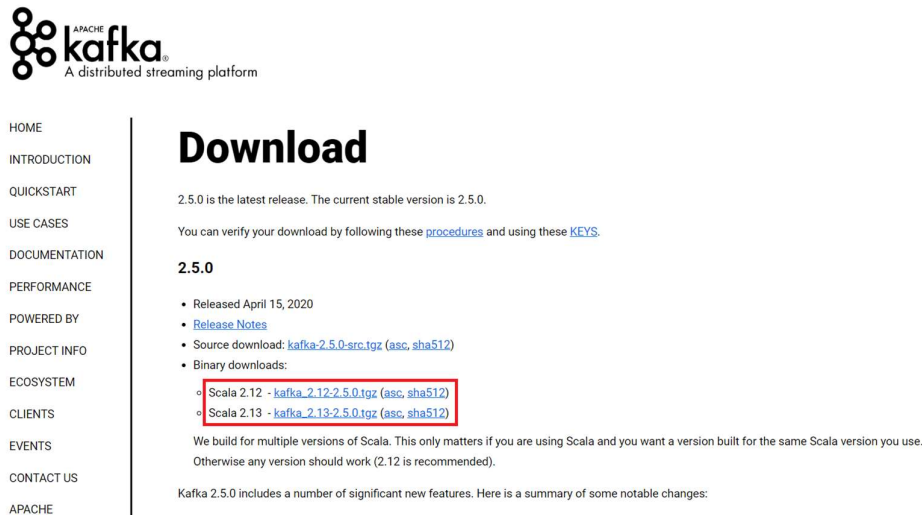


[Apache Kafka](#) is an open-source application used for real-time streams for data in huge amount. Apache Kafka is a publish-subscribe messaging system. A messaging system lets you send messages between processes, applications, and servers. Broadly Speaking, Apache Kafka is software where topics can be defined and further processed.

## Downloading and Installation

Apache Kafka can be downloaded from its official site [kafka.apache.org](https://kafka.apache.org)



For the installation process, follow the steps given below:

**Step 1:** Go to the Downloads folder and select the downloaded Binary file.

**Step 2:** Extract the file and move the extracted folder to the directory where you wish to keep the files.

**Step 3:** Copy the path of the Kafka folder. Now go to *config* inside kafka folder and open *zookeeper.properties* file. Copy the path against the field *dataDir* and add */zookeeper-data* to the path

```
13 # See the License for the specific language governing permissions and
14 # limitations under the License.
15 # the directory where the snapshot is stored.
16 dataDir=c:/kafka/zookeeper-data
17 # the port at which the clients will connect
18 clientPort=2181
19 # disable the per-ip limit on the number of connections since
20 maxClientCnxns=0
```

For example if the path is *c:/kafka*

Add the CLASSPATH property in that same file

```
CLASSPATH=.;C:/kafka/libs/
```

**Step 4:** Now in the same folder *config* open *server.properties* and scroll down to *log.dirs* and paste the path. To the path add */kafka-logs*

**Step 5:** This completes the configuration of zookeeper and kafka server. Now open command prompt and change the directory to the kafka folder. First start zookeeper using the command given below:

```
.\bin\windows\zookeeper-server-start.bat .\config\zookeeper.properties
```

```
C:\kafka>.\bin\windows\zookeeper-server-start.bat .\config\zookeeper.properties
[2020-06-09 00:17:04,344] INFO Reading configuration from: .\config\zookeeper.properties (org.apache.zookeeper.server.quorum.QuorumPeerConfig)
[2020-06-09 00:17:04,352] INFO autopurge.snapRetainCount set to 3 (org.apache.zookeeper.server.DataDirCleanupManager)
[2020-06-09 00:17:04,353] INFO autopurge.purgeInterval set to 0 (org.apache.zookeeper.server.DataDirCleanupManager)
[2020-06-09 00:17:04,355] INFO Purge task is not scheduled. (org.apache.zookeeper.server.DataDirCleanupManager)
[2020-06-09 00:17:04,356] WARN Either no config or no quorum defined in config, running in standalone mode (org.apache.zookeeper.server.quorum.QuorumPeerMain)
[2020-06-09 00:17:04,381] INFO Reading configuration from: .\config\zookeeper.properties (org.apache.zookeeper.server.quorum.QuorumPeerConfig)
[2020-06-09 00:17:04,383] INFO Starting server (org.apache.zookeeper.server.ZooKeeperServerMain)
```

**Step 6:** Now open another command prompt and change the directory to the kafka folder. Run kafka server using the command:

```
.\bin\windows\kafka-server-start.bat .\config\server.properties
```

```
C:\kafka>.\bin\windows\kafka-server-start.bat .\config\server.properties
[2020-06-09 00:30:10,103] INFO Registered kafka:type=kafka.Log4jController MBean (kafka.utils.Log4jController)
[2020-06-09 00:30:10,985] INFO starting (kafka.server.KafkaServer)
[2020-06-09 00:30:10,991] INFO Connecting to zookeeper on localhost:2181 (kafka.server.KafkaServer)
[2020-06-09 00:30:11,016] INFO [ZooKeeperClient] Initializing a new session to localhost:2181. (kafka.ZooKeeperClient)
```

Now kafka is running and ready to stream data.