```
--Install Jdk1.8 or above
--Create a folder "E:\hadoop-env"
--Download Hadoop binaries
     link: https://www.apache.org/dyn/closer.cgi/hadoop/common/hadoop-
3.2.1/hadoop-3.2.1.tar.gz
-- Extract hadoop-3.2.1 and copy it in E:\hadoop-env
--Download GitHub repository: https://github.com/cdarlint/winutils
--Extract winutils-master.zip and find winutils-master\hadoop-3.2.1\bin
--Copy all files from winutils-master\hadoop-3.2.1\bin to E:\hadoop-
env/hadoop-3.2.1\bin
--Environment Variables
     1. JAVA HOME: JDK installation folder path
     2. HADOOP HOME: Hadoop installation folder path
     3. classpath jre/bin
     4. path: as jdk/bin homefolder
     5. path as %JAVA HOME\bin
     6. path as %HADOOP HOME%\bin
--Check java path open PowerShell-> hadoop -version
--Replace Progra~1 insted of Program files if JAVA HOME is incorrectly
set error
--HDFS site configuration (create following folders)
     1. E:\hadoop-env\hadoop-3.2.1\data\dfs\namenode
     2. E:\hadoop-env\hadoop-3.2.1\data\dfs\datanode
--Configuring Hadoop cluster
     1. E:\hadoop-3.2.1\etc\hadoop\hdfs-site.xml
           <property>
           <name>dfs.replication</name>
           <value>1</value>
           </property>
           <property>
           <name>dfs.namenode.name.dir</name>
           <value>file:///E:/hadoop-env/hadoop-
3.2.1/data/dfs/namenode</value>
           </property>
           <property>
           <name>dfs.datanode.data.dir</name>
           <value>file:///E:/hadoop-env/hadoop-
3.2.1/data/dfs/datanode</value>
           </property>
     2. E:\hadoop-3.2.1\etc\hadoop\core-site.xml
           <property>
           <name>fs.default.name</name>
           <value>hdfs://localhost:9820</value>
           </property>
     3. E:\hadoop-3.2.1\etc\hadoop\mapred-site.xml
           <property>
           <name>mapreduce.framework.name</name>
           <value>yarn</value>
           <description>MapReduce framework name</description>
```

</property>

-- Download hadoop-hdfs-3.2.1.jar file from
(https://github.com/FahaoTang/big-data/blob/master/hadoop-hdfs-3.2.1.jar)
-- Make 2 copies and rename one file to hadoop-hdfs-3.2.1.bak
-- Copy the downloaded hadoop-hdfs-3.2.1.jar and hadoop-hdfs-3.2.1.bak to
folder E:\hadoop-env\hadoop-3.2.1\share\hadoop\hdfs

- -- Open PowerShell as Admin
- -- Formatting Name node hdfs namenode -format
- -- Open PowerShell open location E:\hadoop-env\hadoop-3.2.1\sbin
- -- Starting Hadoop services ./start-dfs.cmd
- -- Starting Yarn services ./start-yarn.cmd
- -- use jps command to check running servicess

then you cand find following servicess is in running 14560 DataNode 4960 ResourceManager 5936 NameNode 768 NodeManager 14636 Jps

- -- Hadoop Web UI
 - 1. Name node web page: http://localhost:9870/dfshealth.html
 - 2. Data node web page: http://localhost:9864/datanode.html
 - 3. Yarn web page: http://localhost:8088/cluster

--Load Data to HDFS hadoop fs -put c:\testdata.txt \input

-- Stop Hadoop services

./stop-dfs.cmd

-- Stop Yarn services ./stop-yarn.cmd