Open terminal in UBUNTU and execute the fallowing commands one by one

1)sudo apt update

2)sudo apt install openjdk-8-jdk -y

3)java -version; javac -version

4)sudo apt install openssh-server openssh-client -y

5)ssh-keygen -t rsa -P '' -f ~/.ssh/id\_rsa

6)cat ~/.ssh/id\_rsa.pub >> ~/.ssh/authorized\_keys

7)chmod 0600 ~/.ssh/authorized\_keys

8)ssh localhost

9)wget https://downloads.apache.org/hadoop/common/hadoop-3.2.1/hadoop-3.2.1.tar.gz

10)tar xzf hadoop-3.2.1.tar.gz

11)sudo nano .bashrc

#Hadoop Related Options

export HADOOP\_HOME=/home/hadoop-3.2.1

export HADOOP\_INSTALL=$HADOOP\_HOME

export HADOOP\_MAPRED\_HOME=$HADOOP\_HOME

export HADOOP\_COMMON\_HOME=$HADOOP\_HOME

export HADOOP\_HDFS\_HOME=$HADOOP\_HOME

export YARN\_HOME=$HADOOP\_HOME

export HADOOP\_COMMON\_LIB\_NATIVE\_DIR=$HADOOP\_HOME/lib/native

export PATH=$PATH:$HADOOP\_HOME/sbin:$HADOOP\_HOME/bin

export HADOOP\_OPTS=”-Djava.library.path=$HADOOP\_HOME/lib/native”

12)source ~/.bashrc

13)sudo nano $HADOOP\_HOME/etc/hadoop/hadoop-env.sh

export JAVA\_HOME=/usr/lib/jvm/java-8-openjdk-amd64

which javac

readlink -f /usr/bin/javac

14)sudo nano $HADOOP\_HOME/etc/hadoop/core-site.xml

<configuration>

<property>

<name>hadoop.tmp.dir</name>

<value>/home/tmpdata</value>

</property>

<property>

<name>fs.default.name</name>

<value>hdfs://127.0.0.1:9000</value>

</property>

</configuration>

15)sudo nano $HADOOP\_HOME/etc/hadoop/hdfs-site.xml

<configuration>

<property>

<name>dfs.data.dir</name>

<value>/home/dfsdata/namenode</value>

</property>

<property>

<name>dfs.data.dir</name>

<value>/home/dfsdata/datanode</value>

</property>

<property>

<name>dfs.replication</name>

<value>1</value>

</property>

</configuration>

16)sudo nano $HADOOP\_HOME/etc/hadoop/mapred-site.xml

<configuration>

<property>

<name>mapreduce.framework.name</name>

<value>yarn</value>

</property>

</configuration>

17)sudo nano $HADOOP\_HOME/etc/hadoop/yarn-site.xml

<configuration>

<property>

<name>yarn.nodemanager.aux-services</name>

<value>mapreduce\_shuffle</value>

</property>

<property>

<name>yarn.nodemanager.aux-services.mapreduce.shuffle.class</name>

<value>org.apache.hadoop.mapred.ShuffleHandler</value>

</property>

<property>

<name>yarn.resourcemanager.hostname</name>

<value>127.0.0.1</value>

</property>

<property>

<name>yarn.acl.enable</name>

<value>0</value>

</property>

<property>

<name>yarn.nodemanager.env-whitelist</name>

<value>JAVA\_HOME,HADOOP\_COMMON\_HOME,HADOOP\_HDFS\_HOME,HADOOP\_CONF\_DIR,CLASSPATH\_PERPEND\_DISTCACHE,HADOOP\_YARN\_HOME,HADOOP\_MAPRED\_HOME</value>

</property>

</configuration>

18)hdfs namenode -format

Navigate to the hadoop-3.2.1/sbin directory

19)./start-dfs.sh

20)./start-yarn.sh

21)jps

22)http://localhost:9870

23)http://localhost:9864

24)http://localhost:8088