## Step 1: Install java jdk 8

sudo apt install openjdk-8-jdk

To check it's there cd /usr/lib/jvm

## Step 2: Add this configuration on bash file

nano ~/.bashrc

open .bashrc file and paste these commands.

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

export PATH=\$PATH:/usr/lib/jvm/java-8-openjdk-amd64/bin

export HADOOP HOME=~/hadoop-3.2.3/

export PATH=\$PATH:\$HADOOP HOME/bin

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

export HADOOP MAPRED HOME=\$HADOOP HOME

export YARN HOME=\$HADOOP HOME

export HADOOP\_CONF\_DIR=\$HADOOP\_HOME/etc/hadoop

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

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

export HADOOP\_STREAMING=\$HADOOP\_HOME/share/hadoop/tools/lib/hadoop-streaming-

3.2.3.jar

export HADOOP\_LOG\_DIR=\$HADOOP\_HOME/logs

export PDSH\_RCMD\_TYPE=ssh

## Step 3: Execute bashrc file

source ~/.bashrc

## Install ssh

sudo apt-get install ssh

# Step 4: hadoop.apache.org website to download the tar file Extract the tar file

Extract the tar me

tar -zxvf ~/Downloads/hadoop-3.2.3.tar.gz

#### Step 5: Add the java path in hadoop-env.h

cd hadoop-3.2.3/etc/hadoop

nano hadoop-env.h

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

## Step 6: Add this file in core-site.xml

#### core-site.xml

<configuration>

cproperty>

```
<name>fs.defaultFS</name>
<value>hdfs://localhost:9000</value> </property>
cproperty>
<name>hadoop.proxyuser.dataflair.groups</name> <value> *</value>
</property>
cproperty>
<name>hadoop.proxyuser.dataflair.hosts</name> <value> *</value>
</property>
cproperty>
<name>hadoop.proxyuser.server.hosts</name> <value> * </value>
</property>
cproperty>
<name>hadoop.proxyuser.server.groups</name> <value>*</value>
</property>
</configuration>
Step 7: Add this file in hdfs-site.xml
hdfs-site.xml
<configuration>
cproperty>
<name>dfs.replication</name>
<value>1</value>
</property>
</configuration>
Step 8: Add this file in mapred-site.xml
mapred-site.xml
<configuration>
cproperty>
<name>mapreduce.framework.name</name> <value>yarn</value>
</property>
cproperty>
<name>mapreduce.application.classpath</name>
<value>$HADOOP_MAPRED_HOME/share/hadoop/mapreduce/*:$HADOOP_MAPRED_HOME/share
/hadoop/mapreduce/lib/*</value>
</property>
</configuration>
Step 9: Add this file in yarn-site.xml
yarn-site.xml
<configuration>
cproperty>
<name>yarn.nodemanager.aux-services</name>
<value>mapreduce_shuffle</value>
</property>
```

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

<value>JAVA\_HOME,HADOOP\_COMMON\_HOME,HADOOP\_HDFS\_HOME,HADOOP\_CONF\_DIR,CLAS
SPATH\_PREP END\_DISTCACHE,HADOOP\_YARN\_HOME,HADOOP\_MAPRED\_HOME</value>

## Step 10: ssh

ssh localhost ssh-keygen -t rsa -P " -f ~/.ssh/id\_rsa cat ~/.ssh/id\_rsa.pub >> ~/.ssh/authorized\_keys chmod 0600 ~/.ssh/authorized keys

## step 11: namenode -format

cd /hadoop-3.2.3/bin

hdfs namenode -format

## format the file system

export PDSH\_RCMD\_TYPE=ssh

## Step 12: Start hadoop

start-all.sh(Start NameNode daemon and DataNode daemon)

## Step 13: open localhost:9870 in browser.