**Hadoop 2.8.4 installation -G.MUKTADIR**

[**https://ricma.co/install-apache-hadoop-27-on-buntu-1604.html**](https://ricma.co/install-apache-hadoop-27-on-buntu-1604.html)

**Update repositories**

***Remain at original user***

sudo apt update

sudo apt upgrade -y

**Install Java-8**

***Remain at original user***

sudo apt purge openjdk\*

sudo add-apt-repository -y ppa:webupd8team/java

sudo apt update

sudo apt install -y oracle-java8-installer

**Check Installation of Java-8**

***Remain at original user***

java -version

The installed version will appear in the terminal

**Create JAVA\_HOME environment variable**

***Remain at original user***

sudo nano /etc/profile

export JAVA\_HOME=/usr

(append above then CTRL+X then Y and finally ENTR)

source /etc/profile

**Disable IPv6**

***Remain at original user***

sudo editor /etc/sysctl.conf (or nano instead of editor then append…)

# Disable IPv6

net.ipv6.conf.all.disable\_ipv6 = **1**

net.ipv6.conf.default.disable\_ipv6 = **1**

net.ipv6.conf.lo.disable\_ipv6 = **1**

sudo reboot

**Configure SSH keys**

***Remain at original user***

sudo addgroup hadoopgroup

sudo adduser -ingroup hadoopgroup hadoopuser

sudo apt install ssh

sudo systemctl enable ssh

sudo systemctl start ssh

***Make change to Hadoop user***

su - hadoopuser

ssh-keygen -t rsa -P "" (hit ENTR again)

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

chmod **600** ~/.ssh/authorized\_keys

ssh-copy-id -i ~/.ssh/id\_rsa.pub localhost

ssh localhost

**Install Hadoop**

***Make change to original user***

Browse **hadoop.apache.org/releases.html** (click binary under version 2.8.4 and copy link as below )

#switch to main user and click

su h

cd

sudo wget <http://download.nextag.com/apache/hadoop/common/hadoop-2.8.4/hadoop-2.8.4.tar.gz>

(Hit ENTR - take time to install)

sudo tar xzf hadoop-2.8.4.tar.gz

sudo rm -rf hadoop-2.8.4.tar.gz

sudo mv hadoop-2.8.4 /usr/local

sudo ln -sf /usr/local/hadoop-2.8.4/ /usr/local/hadoop

sudo chown -R hadoopuser:hadoopgroup /usr/local/hadoop-2.8.4/

(Don’t forget to change 2.7.3 to 2.8.4 if you are copying from ricma)

***Make change to Hadoop user***

su – hadoopuser

nano ~/.bashrc (or editor ~/.bashrc)

Append the below

# Hadoop config

export HADOOP\_PREFIX=/usr/local/hadoop

export HADOOP\_HOME=/usr/local/hadoop

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\_CONF\_DIR=${HADOOP\_HOME}/etc/hadoop

# Native path

export HADOOP\_COMMON\_LIB\_NATIVE\_DIR=${HADOOP\_PREFIX}/lib/native

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

# Java path

export JAVA\_HOME="/usr"

# OS path

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

export HADOOP\_INSTALL=/usr/local/hadoop/bin/hadoop

(Don’t forget to type last line additionally, if you are copying from ricma)

source ~/.bashrc

***Make change to original user***

sudo editor /usr/local/hadoop/etc/hadoop/hadoop-env.sh **(can use nano instead of editor)**

Append the below

export JAVA\_HOME="/usr"

**Configure Hadoop**

***Remain at original user***

su h

cd /usr/local/hadoop/etc/hadoop

### sudo nano core-site.xml

Append the below

**<configuration>**

**<property>**

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

**<value>**hdfs://localhost:9000**</value>**

**</property>**

**</configuration>**

### sudo nano hdfs-site.xml

Append the below

**<configuration>**

**<property>**

**<name>**dfs.replication**</name>**

**<value>**1**</value>**

**</property>**

**<property>**

**<name>**dfs.name.dir**</name>**

**<value>**file:/usr/local/hadoop/hadoopdata/hdfs/namenode**</value>**

**</property>**

**<property>**

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

**<value>**file:/usr/local/hadoop/hadoopdata/hdfs/datanode**</value>**

**</property>**

**</configuration>**

### sudo nano mapred-site.xml.template

**Append below and** (Don’t forget to delete **template** from file name-finally hit y again)

**<configuration>**

**<property>**

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

**<value>**yarn**</value>**

**</property>**

**</configuration>**

### sudo nano yarn-site.xml

**Append the below**

**<configuration>**

**<property>**

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

**<value>**mapreduce\_shuffle**</value>**

**</property>**

**</configuration>**

**Format namenode**

***Make change to Hadoop user***

su hadoopuser

hadoop namenode -format

**Start Services**

***Remain in Hadoop user***

start-dfs.sh

start-yarn.sh

**Check Services**

***Remain in Hadoop user***

jps Hit ENTR

All the 6 services to appear

**(i.e. Jps/SecondaryNamenode/NodeManager/Datanode/ResouceManager/NameNode)**

Note: can be used by copying the commands