

Step by step procedure for HADOOP installation on UBUNTU

[September 14, 2020](#)

Open terminal in UBUNTU and execute the following 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 gedit $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 gedit $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 gedit $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 gedit \$HADOOP_HOME/etc/hadoop/mapred-site.xml

```
<configuration>
<property>
  <name>mapreduce.framework.name</name>
  <value>yarn</value>
</property>
```

```
</configuration>
```

17) sudo gedit \$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
```

Thank You