Single Node Installation

```
sudo apt-get update

ssh-keygen

cat ~/.ssh/id_rsa.pub >> ~/.ssh/authorized_keys
```

----downloading and installing java (Hadoop requires a working Java 1.6+)**----**

```
sudo apt-get install openjdk-8-jdk -y
```

---------------------------downloading hadoop**----------------------**

```
wget
https://archive.apache.org/dist/hadoop/common/hadoop-1.2.1/hadoop-
1.2.1.tar.gz

tar -xzvf hadoop-1.2.1.tar.gz

sudo mv hadoop-1.2.1 /usr/local/hadoop
```

------------------------configuring bashrc linux env setup**--------------**

#Configuring bashrc linux env setup

```
nano ~/.bashrc

export HADOOP_PREFIX=/usr/local/hadoop/
export PATH=$PATH:$HADOOP_PREFIX/bin
export JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64
export PATH=$PATH:$JAVA_HOME
```

#Setting hadoop env

```
nano /usr/local/hadoop/conf/hadoop-env.sh

export JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64
export HADOOP_OPTS=-Djava.net.preferIPV4Stack=true
```

#Configuring core-site.xml

```
nano /usr/local/hadoop/conf/core-site.xml
```

```
<property>
<name>fs.default.name</name>
<value>hdfs://localhost:9000</value>
</property>

<property>
<name>hadoop.tmp.dir</name>
<value>/usr/local/hadoop/tmp</value>
</property>
```

#Configuring hdfs-site.xml

```
nano /usr/local/hadoop/conf/hdfs-site.xml
```

```
<property>
<name>dfs.replication</name>
<value>1</value>
</property>
```

#Configuring mapred-site.xml

```
nano /usr/local/hadoop/conf/mapred-site.xml
```

```
<property>
<name>mapred.job.tracker</name>
<value>hdfs://localhost:9001</value>
</property>
```

----------**making tmp dir**---------

```
mkdir /usr/local/hadoop/tmp
```

-------------**exec bash**-------

```
exec bash
```

----------------**formatting hadoop namenode**--------------

```
hadoop namenode -format
```

---------------starting hadoop
services(daemons)**------------------**

```
start-dfs.sh
start-mapred.sh
jps
```