

For installation of Hadoop on Ubuntu:

Ref site :

<https://phoenixnap.com/kb/hadoop-ubuntu>

Login as hadoop user:

Check for java -version

```
$ java -version
```

Check for hadoop version

```
$ hadoop version
```

check for password less login

```
$ssh localhost
```

start the hadoop daemons

```
$ start-dfs.sh
```

```
$ start-yarn.sh
```

Create a text file to hold the contents like data.txt (you can use editor)

create a directory rtest which will hold the inputfile for processing

```
$ hdfs dfs -mkdir /user
```

```
$ hdfs dfs -mkdir /user/hadoop
```

put the data from local file system to hdfs file system

```
$ hdfs dfs -put data.txt /user/hadoop/rtest
```

Run a jar file available in examples directory using following command :

```
$hadoop jar ~/hadoop-3.3.2/share/hadoop/mapreduce/hadoop-mapreduce-examples-3.3.2.jar  
wordcount rtest output
```

once the above command runs successfully a file with name part-r-00000 will be created in the output directory. The output of wordcount program you can check with

```
$ hdfs dfs -cat /user/hadoop/output/part-r-00000
```

you can check the contents of directory using following command :

```
$hdfs dfs -ls /
```

stop the hadoop daemons :

```
$ stop-dfs.sh
```

```
$ stop-yarn.sh
```

```
hadoop@rak123-Inspiron-5559:~$ jps
8355 NameNode
8500 DataNode
9220 NodeManager
9606 Jps
9063 ResourceManager
8749 SecondaryNameNode
```

```
hadoop@rak123-Inspiron-5559:~$ hdfs dfs -cat /user/hadoop/output/part-r-00000
```

```
Hello 1
PICT 2
college 1
engg. 1
is 1
```

```
hadoop@rak123-Inspiron-5559:~$ cat data.txt
```

```
Hello PICT
```

```
PICT is engg. college
```

```
hadoop@rak123-Inspiron-5559:~$
```

```
hadoop jar ~/hadoop-3.3.2/share/hadoop/mapreduce/hadoop-mapreduce-examples-3.3.2.jar wordcount
rtest output
```

```
2022-04-22 09:50:17,979 INFO client.DefaultNoHARMFailoverProxyProvider: Connecting to
ResourceManager at /127.0.0.1:8032
```