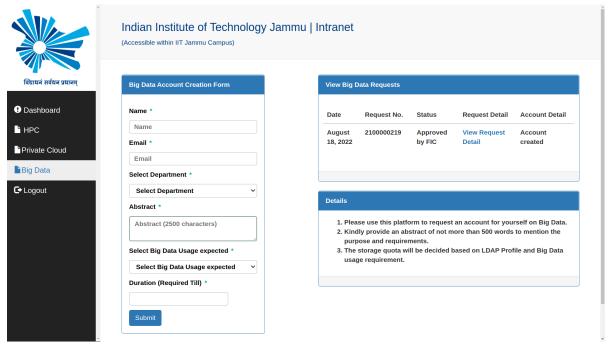
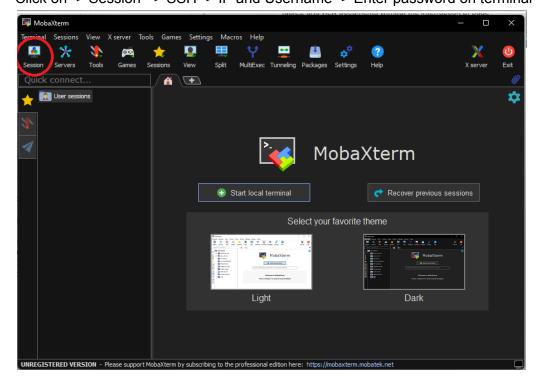
How to Access Big Data Cluster?

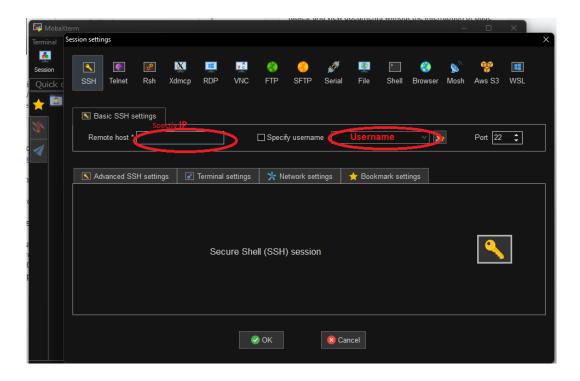
1. Request for the Big data user access credentials : Link: intranet.iitjammu.ac.in



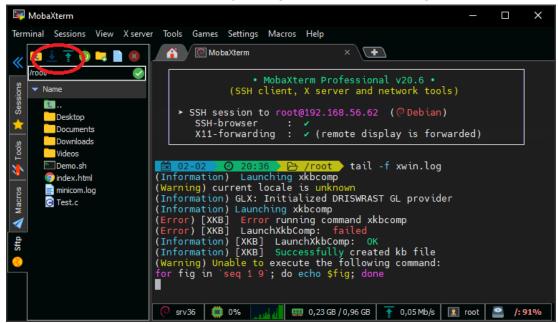
- 2. You will be provided user credentials after approval from authorities to access your Big data user account:
 - Credentials: USERNAME, PASSWORD, IP Address.
- SSH the machine using Moba xterm. https://mobaxterm.mobatek.net/download.html

Click on -> Session -> SSH -> IP and Username -> Enter password on terminal





- 4. Write the mapper and reducer code that you want to run on the Hadoop cluster. You can follow the link for the word count program.
 - :https://www.michael-noll.com/tutorials/writing-an-hadoop-mapreduce-program-in-python/
- 5. Upload the mapper and reducer to your BigData user space using mobaXterm.



Run map reduce program for wordcount

- 1. Create a file data.txt with sample data,
- 2. Upload data.txt to HDFS(hadoop distributed file system),
 - A. Create a directory in HDFS

```
hdfs dfs -mkdir /data

B. Put local data.txt into that folder in HDFS.

hdfs dfs -put /home/username/data.txt /data
```

3. Run mapper.py and reducer.py on data.txt to perform word count. hadoop jar

```
/usr/hdp/3.1.4.0-315/hadoop-mapreduce/hadoop-streaming.ja
r -input data.txt -output output001/ou5 -mapper
mapper.py -reducer reducer.py
```

Brief Explanation:

hadoop jar <location of hadoop jar file>

- -input < location of input data in HDFS>
- -output <location of output folder(unique name) in HDFS>
- -mapper <Location of mapper in local>
- -reducer <location of reducer in local>