

Videos provided by ITVersity “Getting started with ITV Big Data Labs”

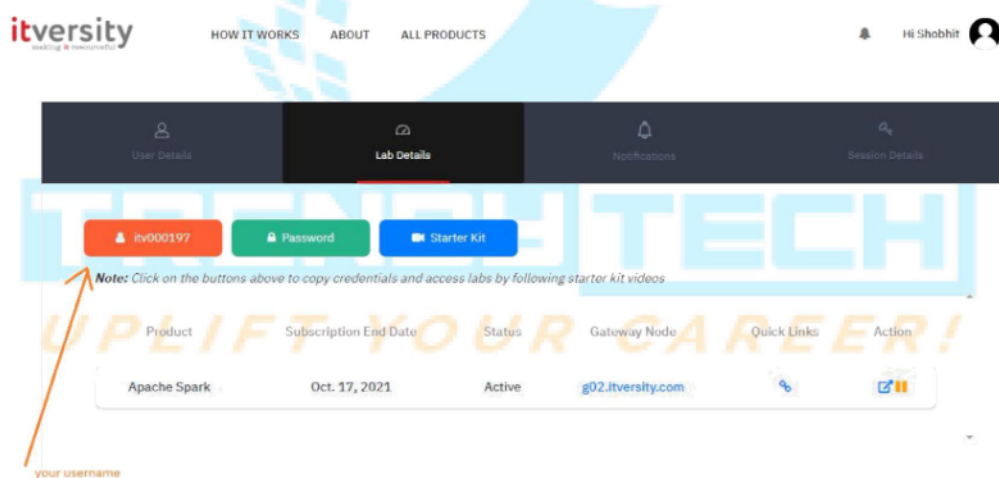
<https://www.youtube.com/playlist?list=PLf0swTFhTI8o5Lb5yw1aDtvVJ8Wo4Lpm->

Launching ITV Lab Machine Terminal

Once you register for the external labs, you will get an email to access the lab links. Once the product is activated, the username and password for the new cluster will be displayed.

https://labs.ITVersity.com/user/profile/lab_details

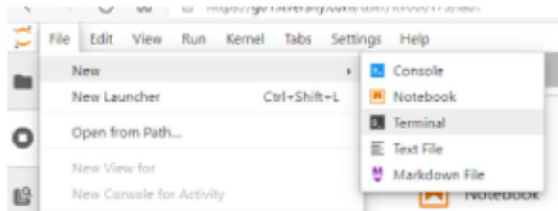
Home Page looks like this: Note down lab username & password.



Click on **gateway node** & login using the lab credentials. Copy credentials using the buttons.

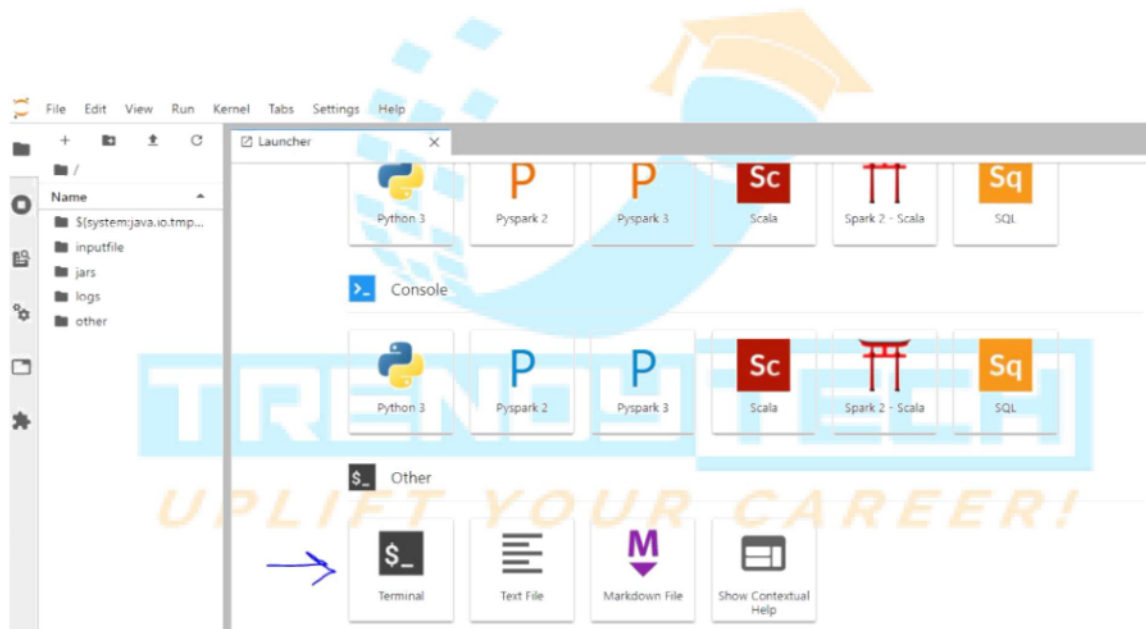
Once you login: you can open terminal in two ways & start practicing the Linux & Hadoop Commands.

Way 1: File → New → Terminal



Way 2:

You can click on terminal to open terminal for this machine



Check your username in Linux terminal

`echo ${USER}`

`whoami`

```
[itv000197@g02 ~]$ whoami
itv000197
[itv000197@g02 ~]$ echo ${USER}
itv000197
```

Home Directory for Local ITV Machine

`/home/<your-username>`

`/home/${USER}`

```
[itv000197@g02 ~]$ echo ${USER}
itv000197
[itv000197@g02 ~]$ pwd
/home/itv000197
[itv000197@g02 ~]$
```

Home Directory for Hadoop ITV Machine

`hadoop fs -ls /user/<your-username>`

`hadoop fs -ls /user/${USER}`

```
[itv000197@g02 ~]$ hadoop fs -ls
Found 3 items
drwx----- - itv000197 supengroup          0 2021-04-15 10:07 .Trash
drwxr-xr-x - itv000197 supengroup          0 2021-04-27 10:14 _sqoop
drwxr-xr-x - itv000197 supengroup          0 2021-04-23 08:58 warehouse
[itv000197@g02 ~]$ hadoop fs -ls /user/itv000197
Found 3 items
drwx----- - itv000197 supengroup          0 2021-04-15 10:07 /user/itv000197/.Trash
drwxr-xr-x - itv000197 supengroup          0 2021-04-27 10:14 /user/itv000197/_sqoop
drwxr-xr-x - itv000197 supengroup          0 2021-04-23 08:58 /user/itv000197/warehouse
[itv000197@g02 ~]$ hadoop fs -ls /user/${USER}
Found 3 items
drwx----- - itv000197 supengroup          0 2021-04-15 10:07 /user/itv000197/.Trash
drwxr-xr-x - itv000197 supengroup          0 2021-04-27 10:14 /user/itv000197/_sqoop
drwxr-xr-x - itv000197 supengroup          0 2021-04-23 08:58 /user/itv000197/warehouse
[itv000197@g02 ~]$
```

Do we have access to create files & directory anywhere in the ITV Hadoop environment?

No. We don't have permissions to create files/directory anywhere, we have to work within our home directory.

Hadoop: /user/<user-name>

Local: /home/<user-name>

This is your home directory in Hadoop, you have permissions to create files & directory under this only.

By default, home directory is empty hence we need to create a directory first.

```
[itv000197@g02 ~]$ hadoop fs -mkdir /shobhit
mkdir: Permission denied: user=itv000197, access=WRITE, inode="/:hdfs:supergroup:drwxr-xr-x
[itv000197@g02 ~]$ hadoop fs -mkdir /user/itv000197/shobhit
[itv000197@g02 ~]$ hadoop fs -ls
Found 4 items
drwx----- - itv000197 supergroup          0 2021-04-15 10:07 .Trash
drwxr-xr-x - itv000197 supergroup          0 2021-04-27 10:14 _sqoop
drwxr-xr-x - itv000197 supergroup          0 2021-04-30 12:47 shobhit
drwxr-xr-x - itv000197 supergroup          0 2021-04-23 08:58 warehouse
[itv000197@g02 ~]$
```

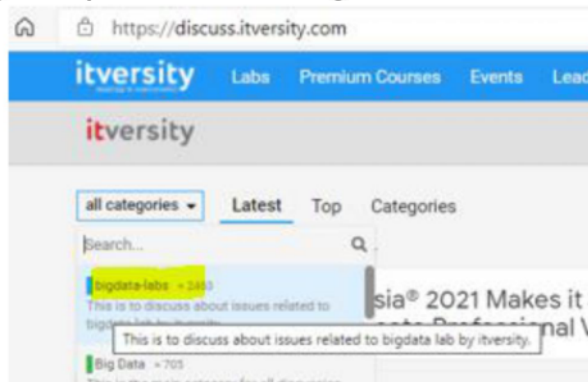
But we can explore other directories. See below example of root in Hadoop.

```
[itv000197@g02 ~]$ hadoop fs -ls /
Found 8 items
drwxr-xr-x - hbase supergroup          0 2021-03-01 00:11 /hbase
drwxr-xr-x - hdfs supergroup          0 2021-03-02 14:41 /public
drwxr-xr-x - hdfs supergroup          0 2020-12-29 01:52 /spark-jars
drwxrwxrwx - spark hadoop            0 2021-04-30 11:54 /spark-logs
drwxr-xr-x - hdfs supergroup          0 2020-12-29 01:56 /spark2-jars
drwxrwxrwx - spark hadoop            0 2021-04-30 12:35 /spark2-logs
drwxrwx--x - hdfs supergroup          0 2021-03-31 07:17 /tmp
drwxr-xr-x - hdfs supergroup          0 2021-04-30 11:17 /user
[itv000197@g02 ~]$
```

Other Information:

You can search as well as post your queries as mentioned below.

1. Web → [discuss.ITVersity.com](https://discuss.itversity.com)([ITVersity](https://discuss.itversity.com)) → make sure to post your queries inside bigdata-labs.



2. ITV Slack - Join "labs-support channel".
https://join.slack.com/t/itv-data-engineers/shared_invite/zt-cmyt24hd-oxY8_YfCtLew~~Q_kg3U2~w

You can also post a query in "labs-support channel" ITV Slack

Note: In case if you can't see the labs-support channel then you can search for that channel and join.

