

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

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

Putty and WinSCP video by ITVersity

06 Spark - Getting Started - Windows - Setup Putty and WinScp - YouTube

What is Putty?

It helps you to connect with remote machine (in our case ITVersity) with flexibility and user friendliness

What is WinSCP?

It helps you to transfer files between windows/mac and remote machine (in our case ITVersity).

Problem Statement

ITVersity don't have any IDE to write MapReduce Program.

Solution

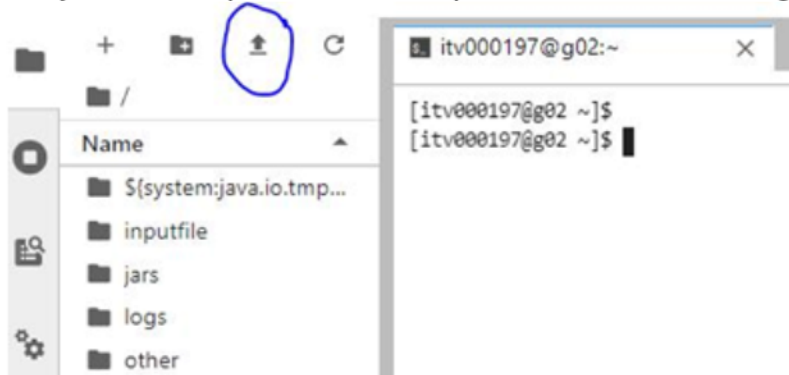
Follow below approach

1. Create jar file in windows/mac using eclipse or any IDE (Jar Creation and Execution - Practical Session2 Video)
2. Copy the jar to ITVersity (WinSCP) (This document with heading - How to move file from laptop to ITV Local)
3. Execute jar on Hadoop (refer same video in step 1)

```
[itv000197@02 ~]$ hadoop jar /home/itv000197/test4.jar /user/itv000197/samplefolder/samplefile.txt /user/itv000197/samplefolder/out2/ ✓
2021-04-25 01:55:55,199 INFO client.DefaultHARMFailoverProxyProvider: Connecting to ResourceManager at m02.itversity.com/172.16.1.104:8032
2021-04-25 01:55:55,491 INFO client.AHSProxy: Connecting to Application History server at m01.itversity.com/172.16.1.103:10200
2021-04-25 01:55:55,836 INFO mapreduce.JobResourceUploader: Disabling Erasure Coding for path: /tmp/hadoop-yarn/staging/itv000197/.staging/jc
```

How to move file from laptop to ITV Local

Way 1: Use upload button, present in the “Lab gateway Node”.



Way 2: WinSCP -

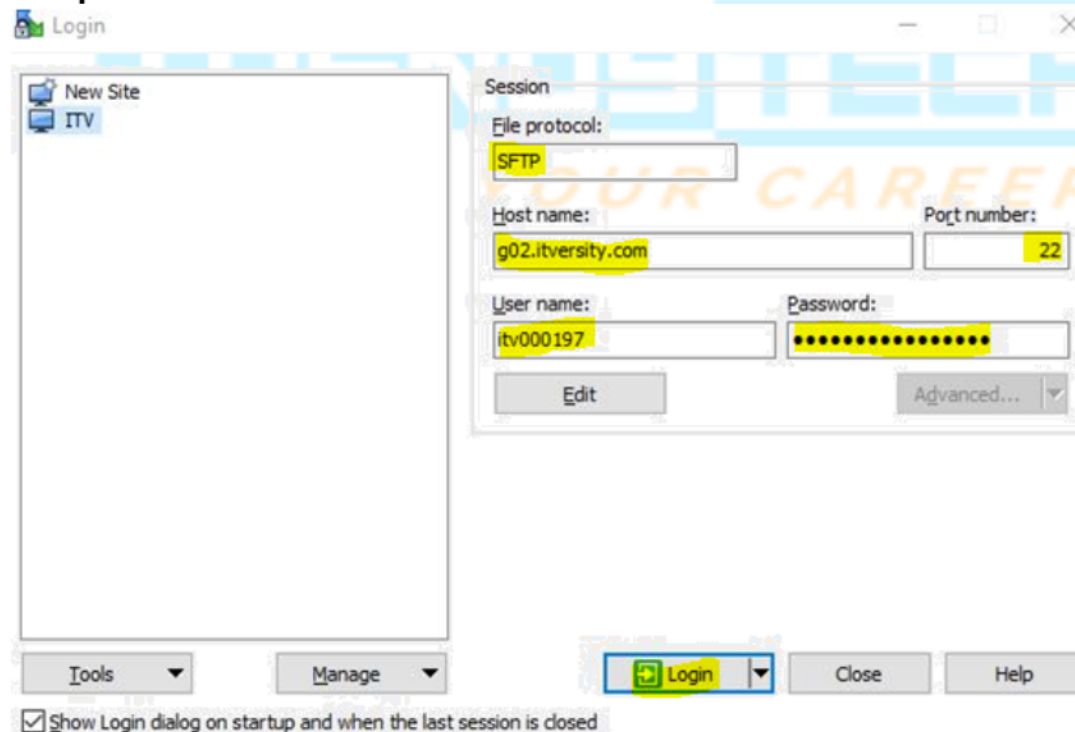
<https://winscp.net/eng/download.php>

Provide these details:

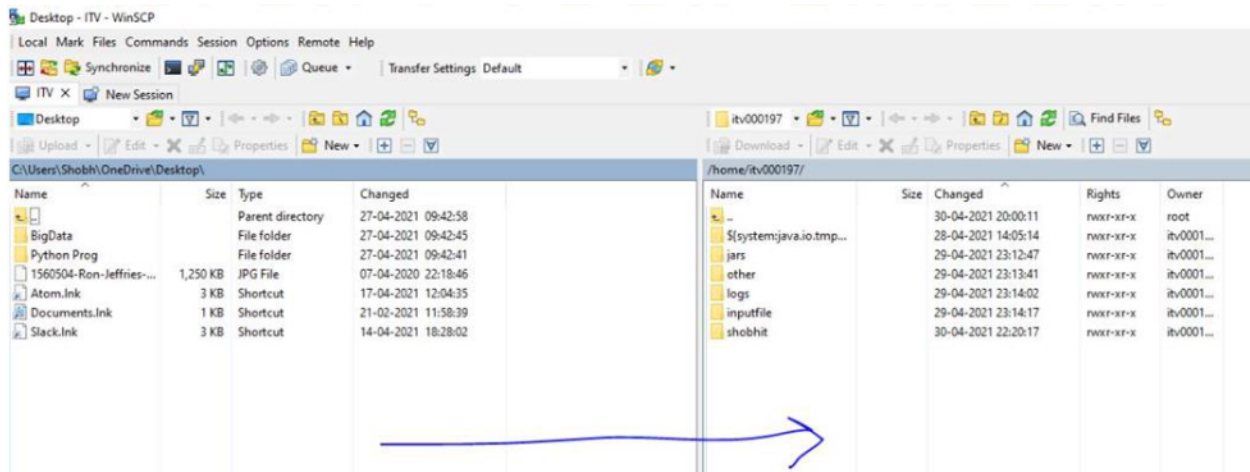
Hostname: g02.itversity.com

Port: 22

File protocol: SFTP



Transfer file from laptop to ITV Lab Machine. Drag n Drop



Access ITV Lab Terminal using Putty

You can also access the lab terminal using the putty tool.

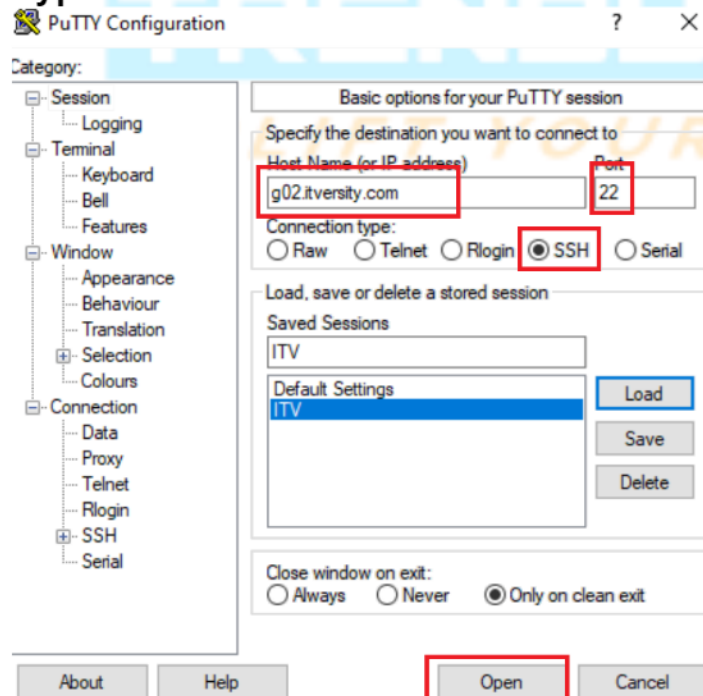
Download putty: <https://www.putty.org/> . Provide below

details in putty: like host & port **Hostname:**

g02.itversity.com

Port: 22

Type: SSH



Once you click on open → provide your username and password.

Copy your password from the lab home page buttons:

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

```
itv000197@g02:~  
login as: itv000197  
itv000197@g02.itversity.com's password:  
Last login: Fri Apr 30 12:36:32 2021 from 223.177.124.178  
  
CentOS Linux 7 (Core)  
  
Linux g02.itversity.com 4.19-ovh-xxxx-std-ipv6-64 #1554269 SMP Tue Dec 15 08:31:57 UTC 2020 x86_64 x86_64 x86_64 GNU/Linux  
  
Server      : 346006  
IPv4        : 51.161.13.110  
IPv6        : 2607:5300:203:676e::  
Hostname    : g02.itversity.com  
  
[itv000197@g02 ~]$ pwd  
/home/itv000197  
[itv000197@g02 ~]$ hadoop fs -ls  
Found 3 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 2021-04-23 08:58 warehouse  
[itv000197@g02 ~]$
```

Access ITV Lab Terminal using SSH

You can also access the lab terminal using the ssh command.

`ssh <your-username>@g02.itversity.com`

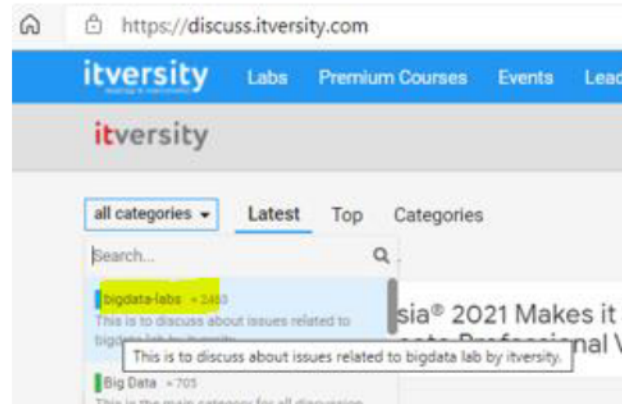
`ssh itv000197@g02.itversity.com`

```
itv000197@g02:~  
Windows PowerShell  
Copyright (C) Microsoft Corporation. All rights reserved.  
  
Try the new cross-platform PowerShell https://aka.ms/pscore6  
  
PS C:\Users\Shobh [ssh itv000197@g02.itversity.com]  
itv000197@g02.itversity.com's password:  
Last login: Fri Apr 30 12:36:32 2021 from 223.177.124.178  
  
CentOS Linux 7 (Core)  
  
Linux g02.itversity.com 4.19-ovh-xxxx-std-ipv6-64 #1554269 SMP Tue Dec 15 08:31:57 UTC 2020 x86_64 x86_64 x86_64 GNU/Linux  
  
Server      : 346006  
IPv4        : 51.161.13.110  
IPv6        : 2607:5300:203:676e::  
Hostname    : g02.itversity.com  
  
[itv000197@g02 ~]$ pwd  
/home/itv000197  
[itv000197@g02 ~]$ hadoop fs -ls /user/itv000197  
Found 3 items  
drwx----- - itv000197 supergroup          0 2021-04-15 10:07 /user/itv000197/.Trash  
drwxr-xr-x - itv000197 supergroup          0 2021-04-27 10:14 /user/itv000197/_sqoop  
drwxr-xr-x - itv000197 supergroup          0 2021-04-23 08:58 /user/itv000197/warehouse  
[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.