IBM Software

Hadoop Fundamentals

Lab Setup

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Lab 1 Setup

Before you can start the labs required for this course you will need to setup your workstation. This first lab will enable you to do that and ensure you have everything ready for the remaining exercises.

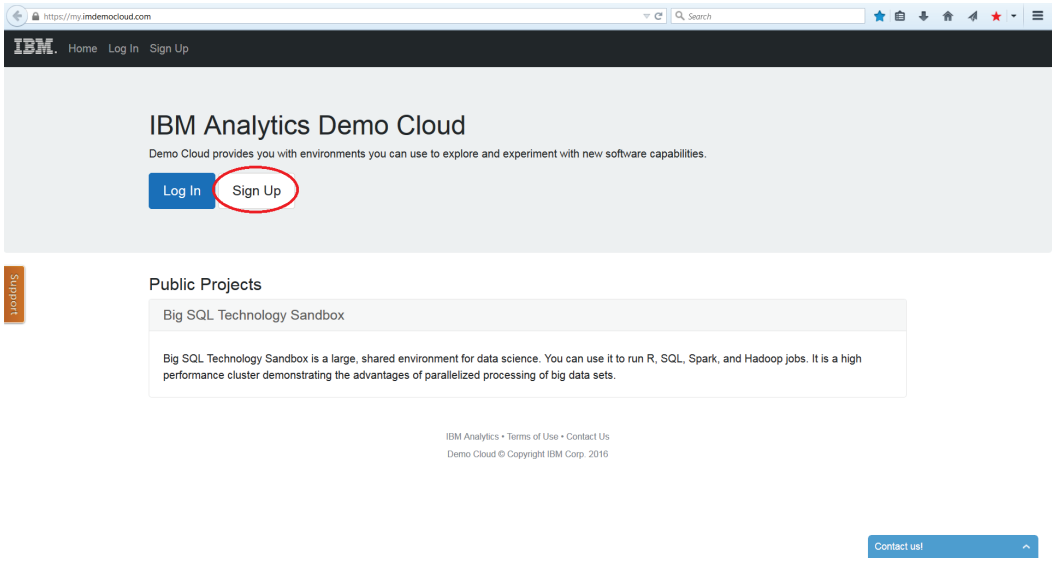
After completing this hands-on lab, you'll have:

- Have an IBM Analytics Demo Cloud Account created
- Install and be able to use the SSH and SFTP programs to connect to the cloud.
- Be able to start up Ambari, which will be used in the following labs.

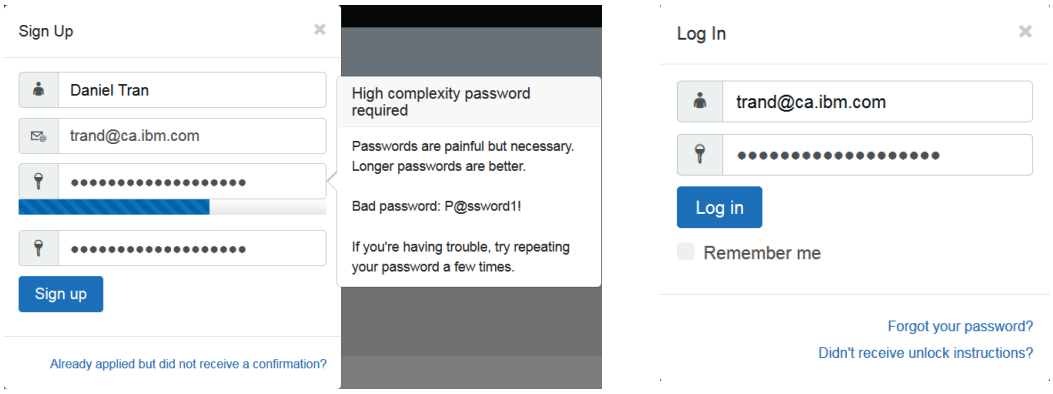
Allow 30 minutes to complete this lab.

1.1 Setting up an account

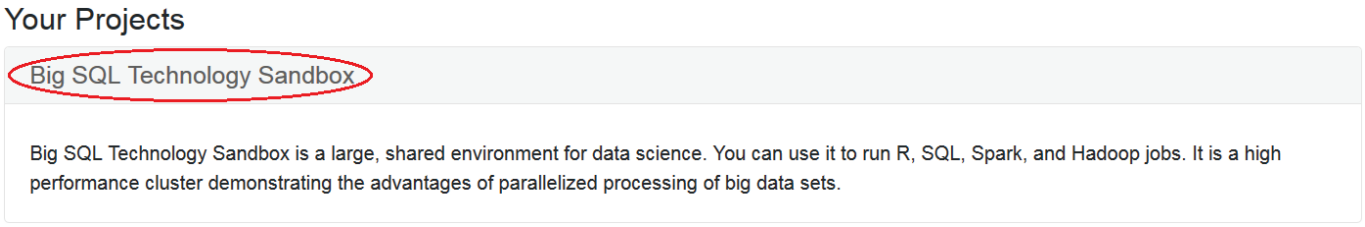
1. Start by navigating to the IBM Analytics Demo Cloud website: https://my.imdemocloud.com/ and clicking the Sign Up button. And fill out the required information.



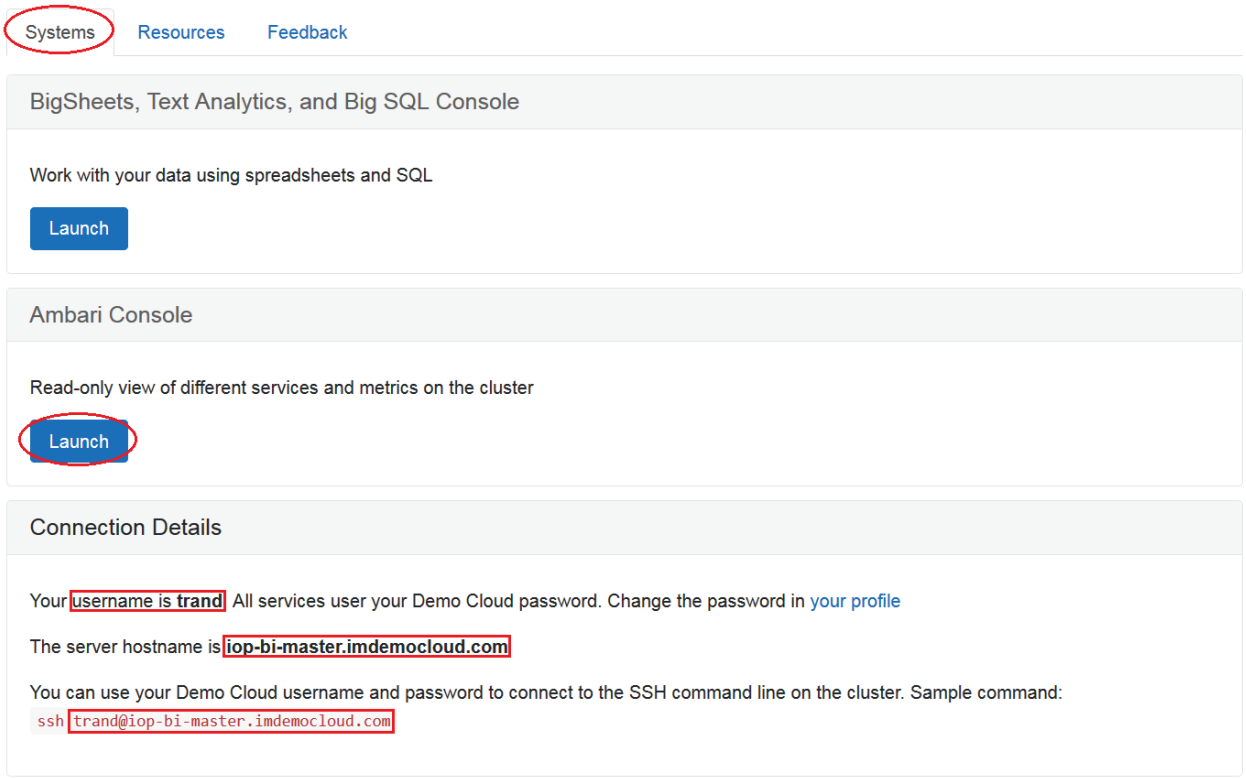
2. An example of Sign Up and Log In.



3. After logging in, you will need to click the "Big SQL Technology Sandbox" link.

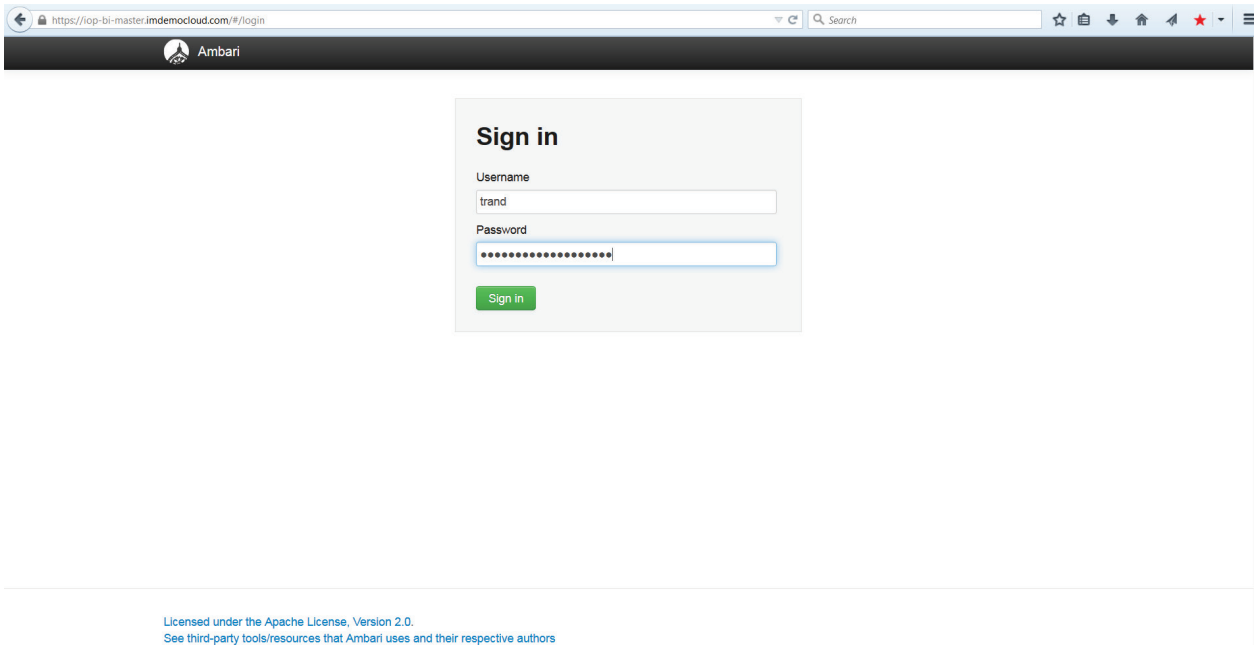


4. Click the "Systems" tab, which will show 3 sections. We are interested in "Ambari Console" and "Connection Details". Pressing the Launch button will open the Ambari Console. In Connection Details, the username is what will be used to log into Ambari. The server host name will be important in later steps (as well as the sample SSH command).

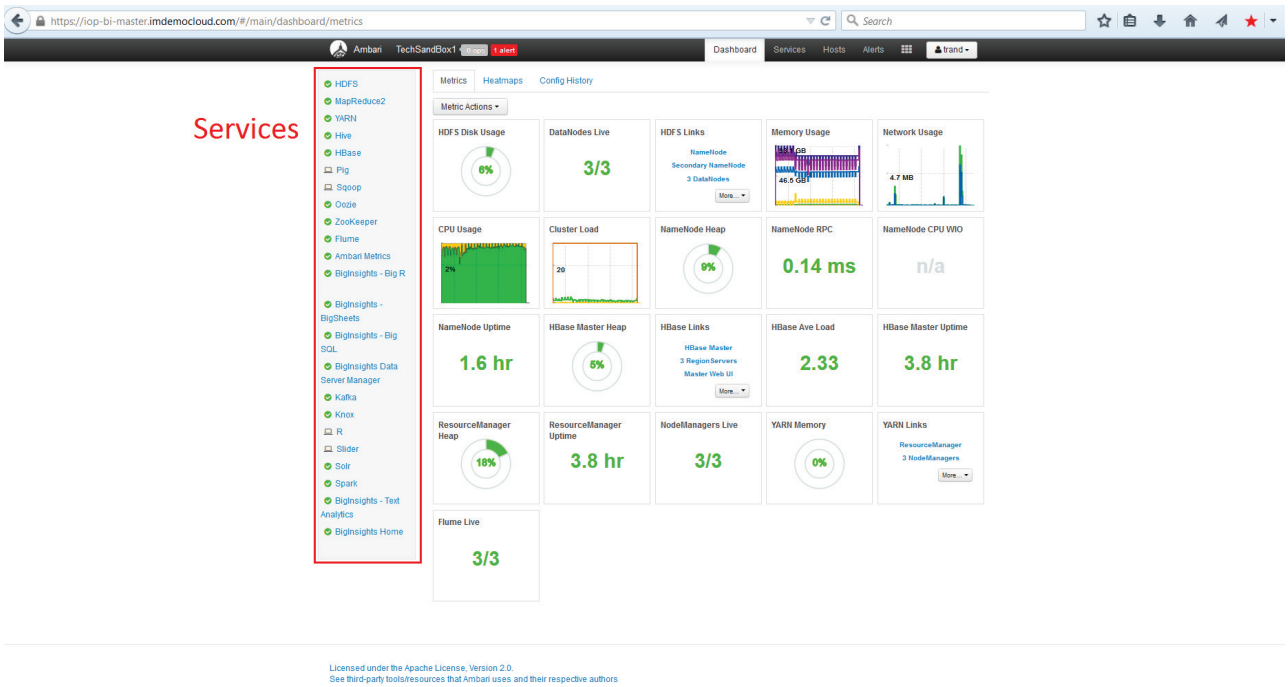


1.2 Ambari Console

1. After pressing the launch button under Ambari Console (seen in 1.1 Step 4), this tab will appear in your browser. Input your username and password (username seen in 1.1 Step 4, password is the same as the one used to sign up for the IBM Analytics Demo Cloud account.



2. After logging in, the screen should look like this. Leave the Ambari Console on throughout the following labs. All of the services should be started.



1.3 SSH and PuTTY

NOTE: A SSH client (e.g. PuTTY, etc.) is necessary to connect to the cloud environment. The suggested client that will be used in the following labs is PuTTY.

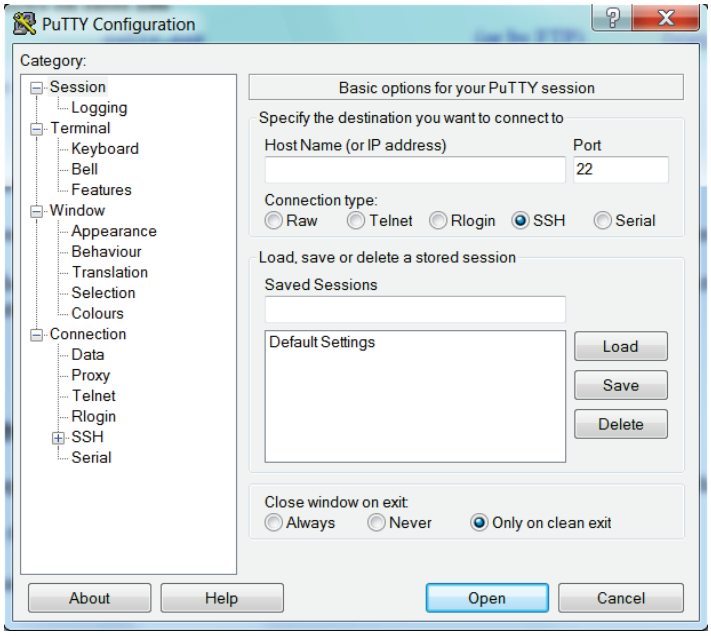
If you already have a SSH program or PuTTY installed, skip this section.

1. Navigate to www.chiark.greenend.org.uk/~sgtatham/putty/download.html and download PuTTY.

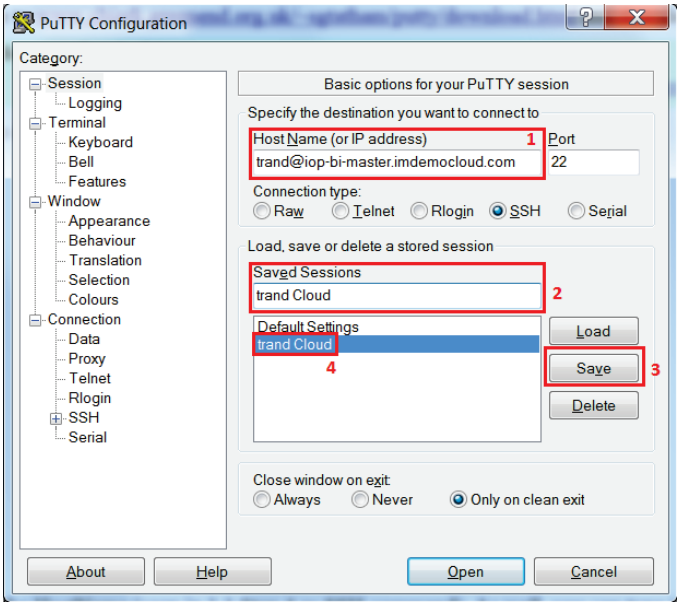
   For Windows on Intel x86

   PuTTY: putty.exe (or by FTP) (signature)

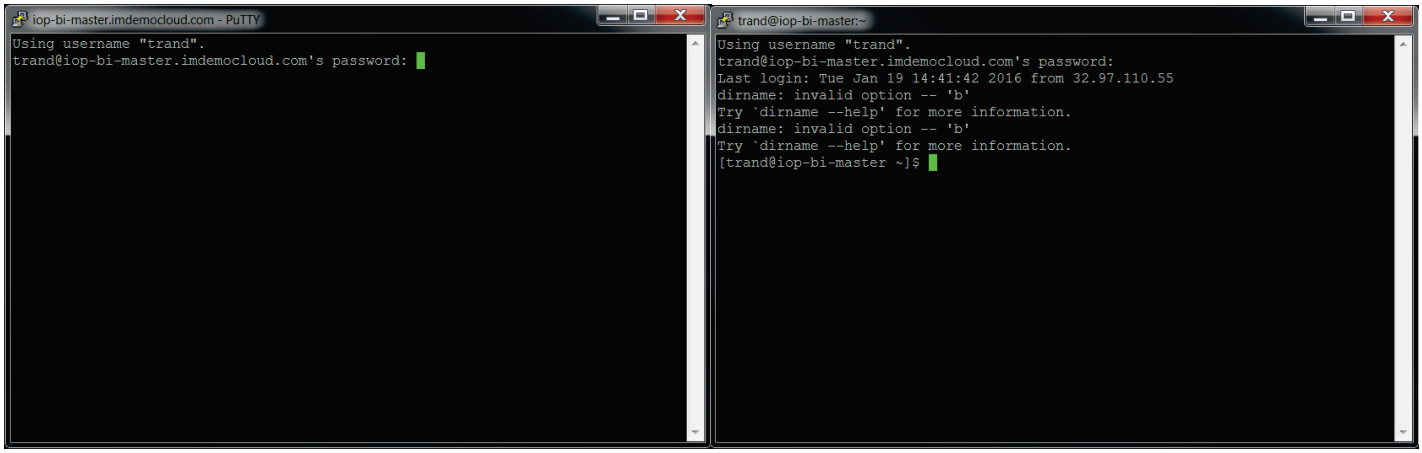
2. After the download, open PuTTY. It should look like this:



3. Type in the HostName (seen in 1.1 Step 4 as SSH command). As well, you can type in a name for the session and press the save button to store the session. Saving the session allows you to click the session next time you open PuTTY and load it without needing to retype the Host Name. Ensure the Connection type is SSH.



4. Click the session and press open. On the new screen, there is a prompt for your password. The password is the same as the one used to sign up/login to the IBM Analytics Demo Cloud website. Input the password and you should be able to run commands on the cloud!

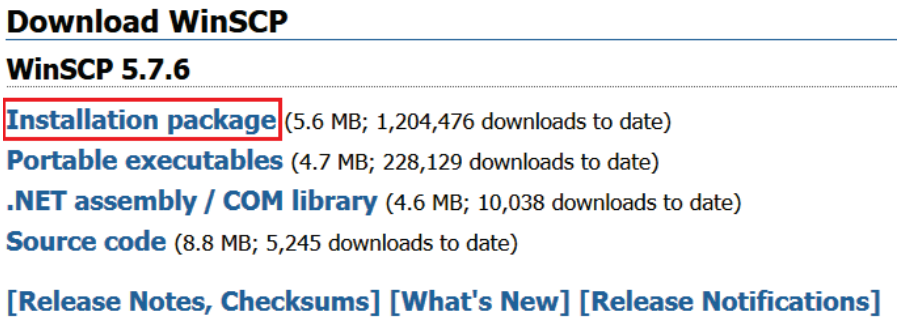


1.4 FTP and WinSCP File Transfer

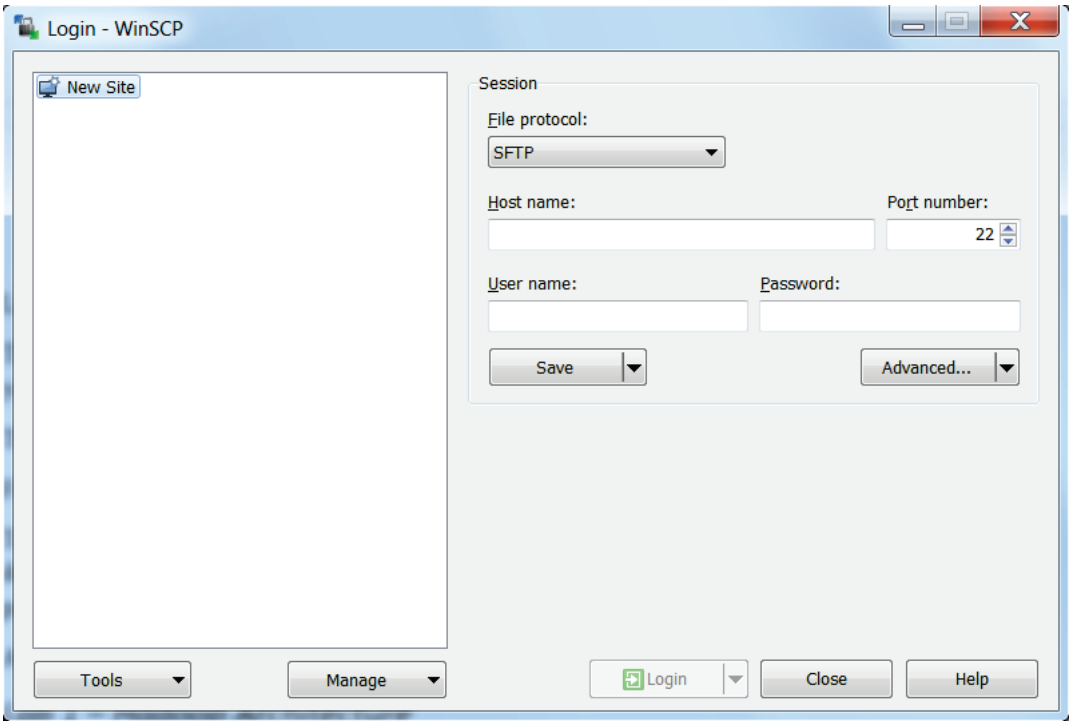
NOTE: A FTP tool (e.g. WinSCP, FileZilla, etc.) is necessary to transfer files. The suggested client that will be used in the following labs is WinSCP.

If you already have an FTP file transfer program or WinSCP, you can skip this step.

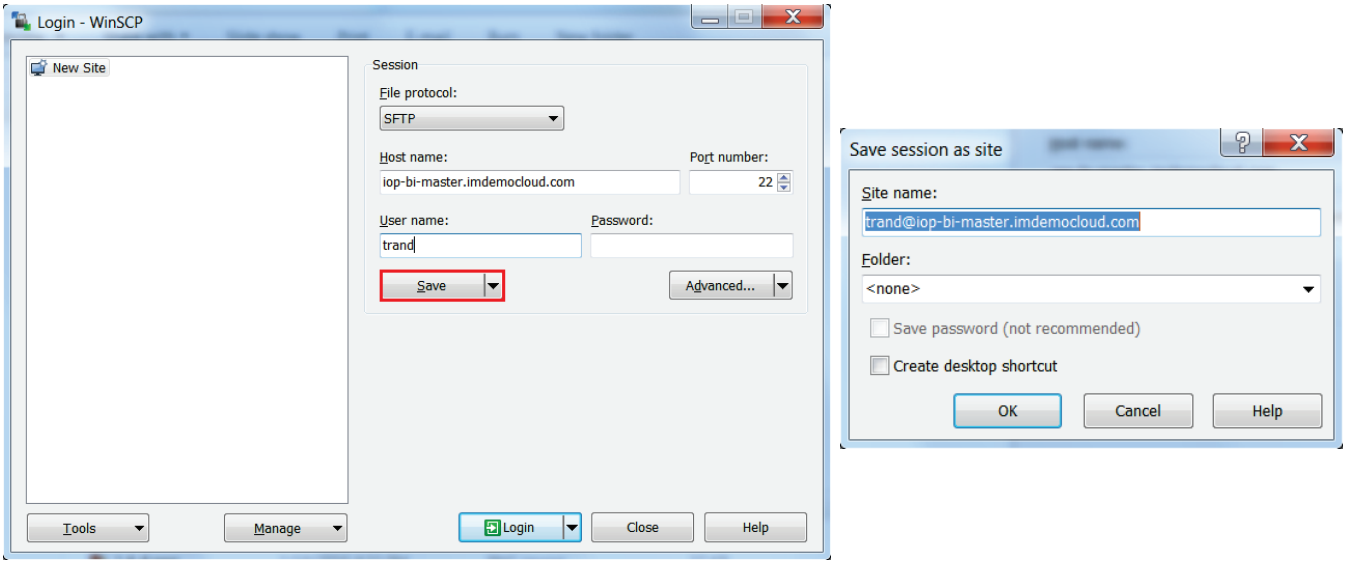
1. Navigate to https://winscp.net/eng/download.php and click on the Installation Package link to start downloading the program. Install and set up WinSCP.



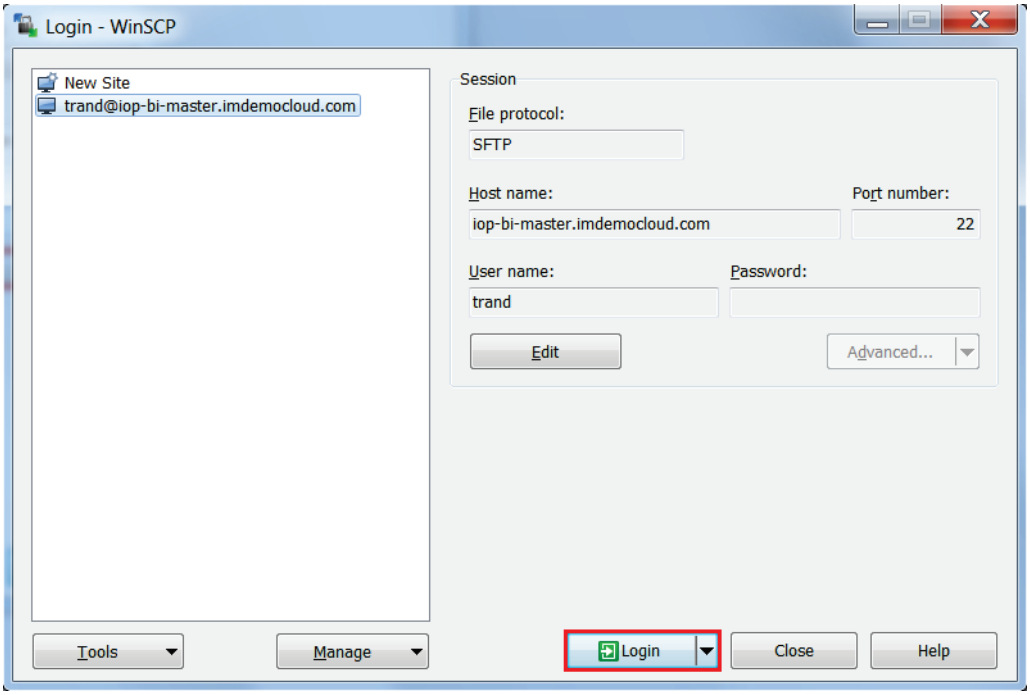
2. After finishing installation, we need to set up WinSCP for file transfer to the cloud. Open WinSCP.



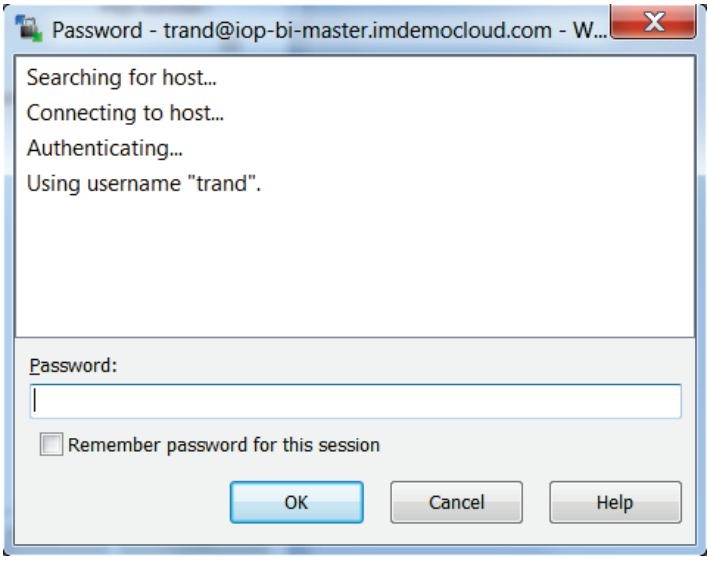
3. The Host Name is iop-bi-master.imdemocloud.com (seen in 1.1 Step 4 as Server Host Name). Set the User Name as seen in 1.1 Step 4. The Password section can be left blank, as a prompt for the password will always appear when trying to login. Press save, and it will prompt for a name for the session.



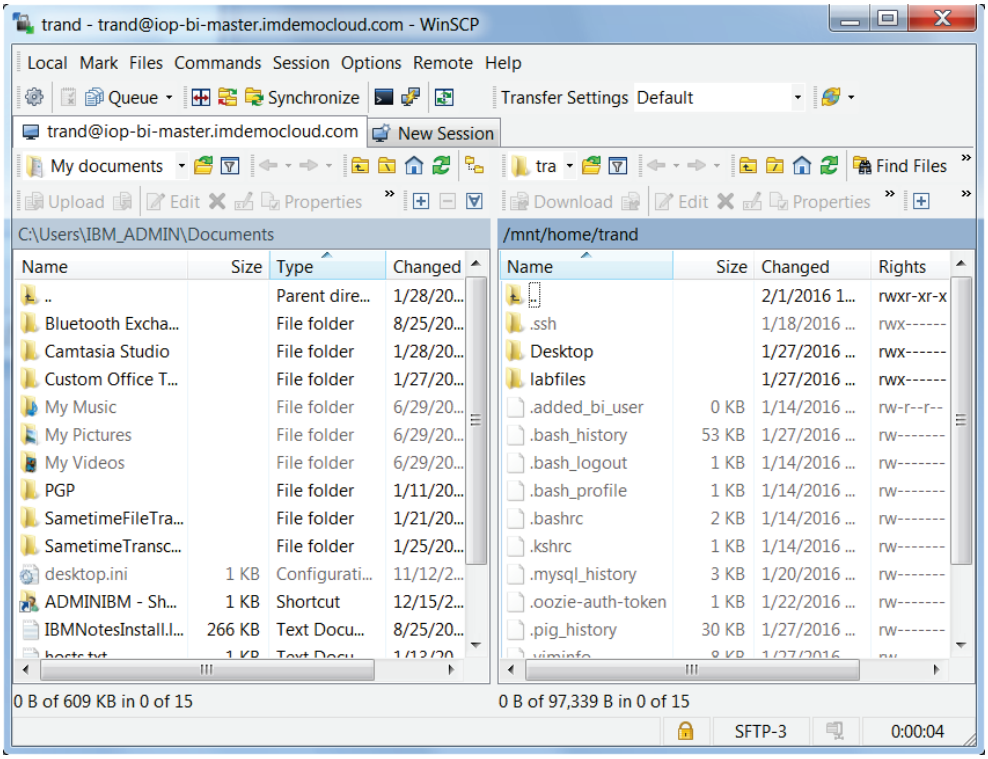
4. Afterwards, WinSCP should return to the start screen, but this time have the session you just created. Select that session and press Login.



5. Input your password into the prompt (same password used to create your account).



6. After Login, the screen should look like this. The left-hand side is your computers' directories, while the right-hand side is the Clouds' directory. Files can be transferred by dragging and dropping them from the left-hand side to the right-hand side and vice-versa.



1.5 Summary

Congratulations! You have completed the lab setup, you are now ready to start the labs.

You may move on to the next unit.

NOTES

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