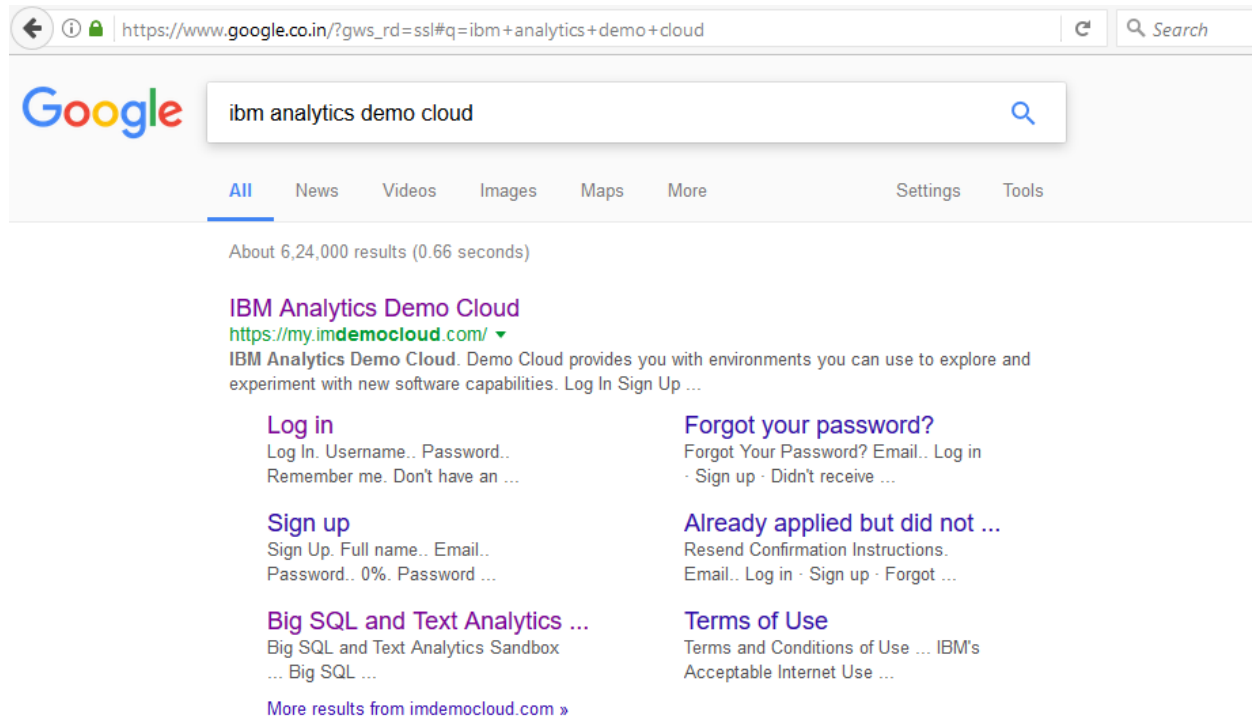
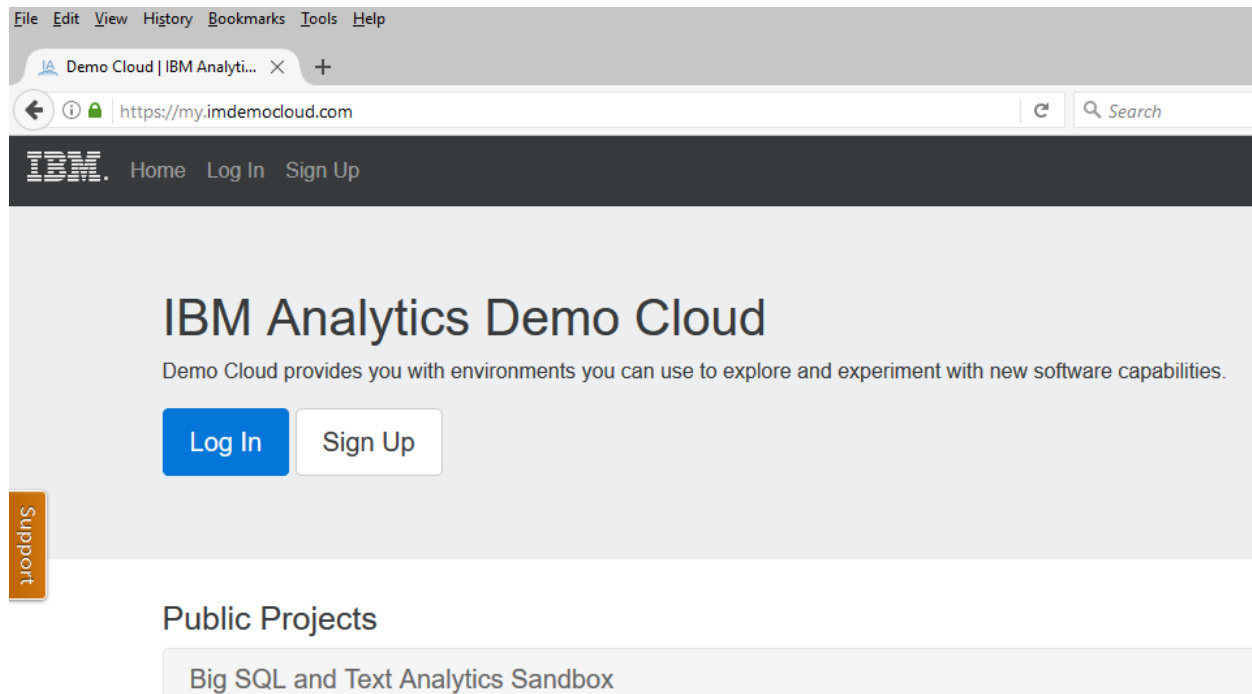


Using IBM Analytics Demo Cloud

1. Go to Google site and search for IBM Analytics Demo Cloud.



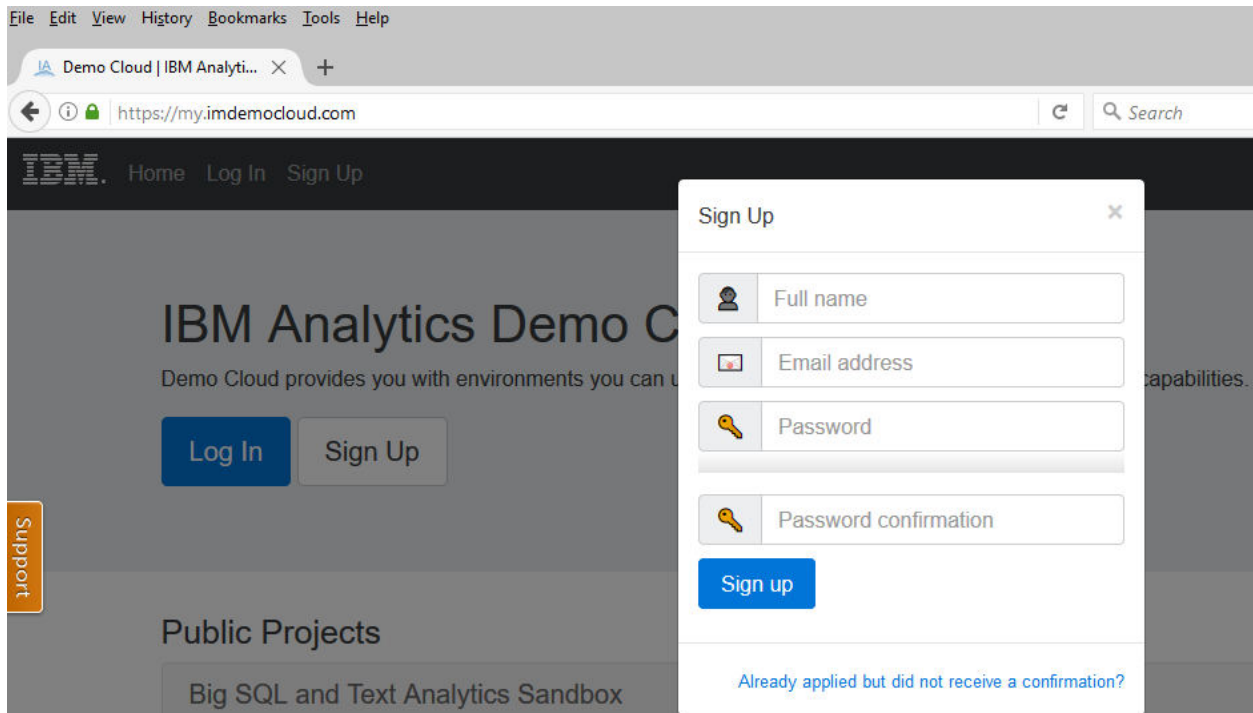
2. Go to the <https://my.imdemocloud.com> website.



Click on Sign Up button to register for the service. This step is for the first time only. Once you register and your account is created you get access to the cloud services.

**** Currently the cloud service is free but IBM may change policy**

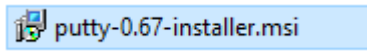
When you click on the Sign Up button following Window opens.

A screenshot of a web browser showing the IBM Analytics Demo Cloud sign-up process. The browser's address bar displays 'https://my.imdemodcloud.com'. The main page features the IBM logo, navigation links for 'Home', 'Log In', and 'Sign Up', and a large 'Sign Up' button. A 'Support' button is visible on the left. A 'Sign Up' modal window is open, containing input fields for 'Full name', 'Email address', 'Password', and 'Password confirmation', followed by a 'Sign up' button. A link at the bottom of the modal reads 'Already applied but did not receive a confirmation?'. The background page also mentions 'Public Projects' and 'Big SQL and Text Analytics Sandbox'.

Provide Full Name and Email address. Provide password. Click Sign Up.

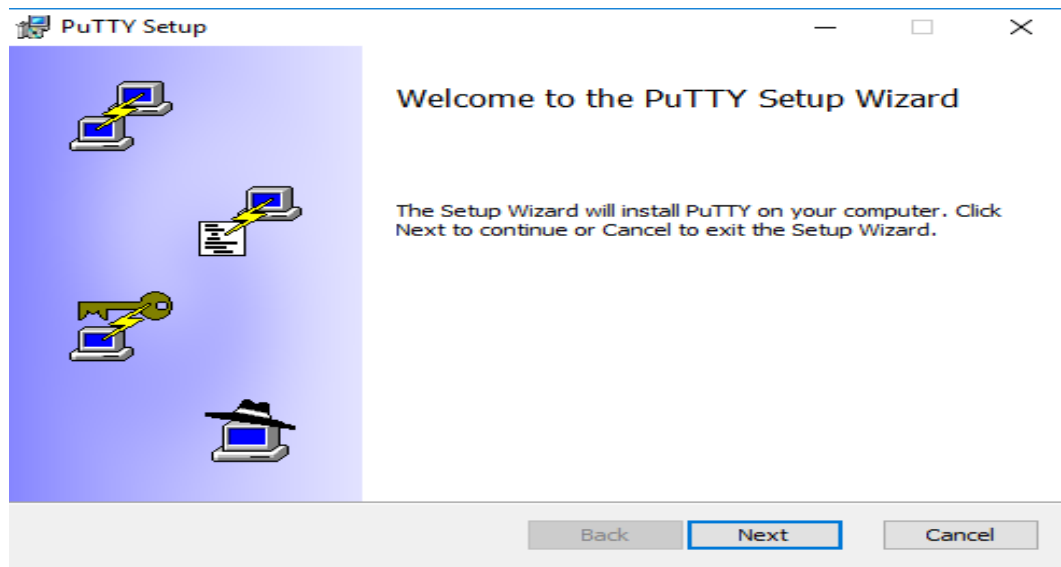
You will receive a confirmation email. It will provide you all the access details.

3. You need to install Putty software which allows you to remotely access a computer.

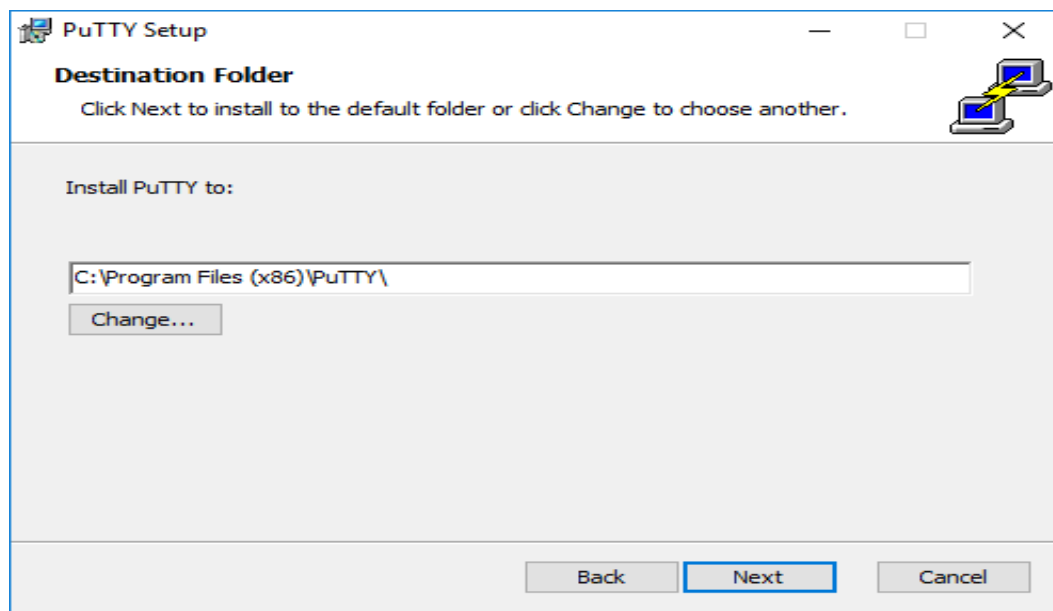


Double click on the above installer file.

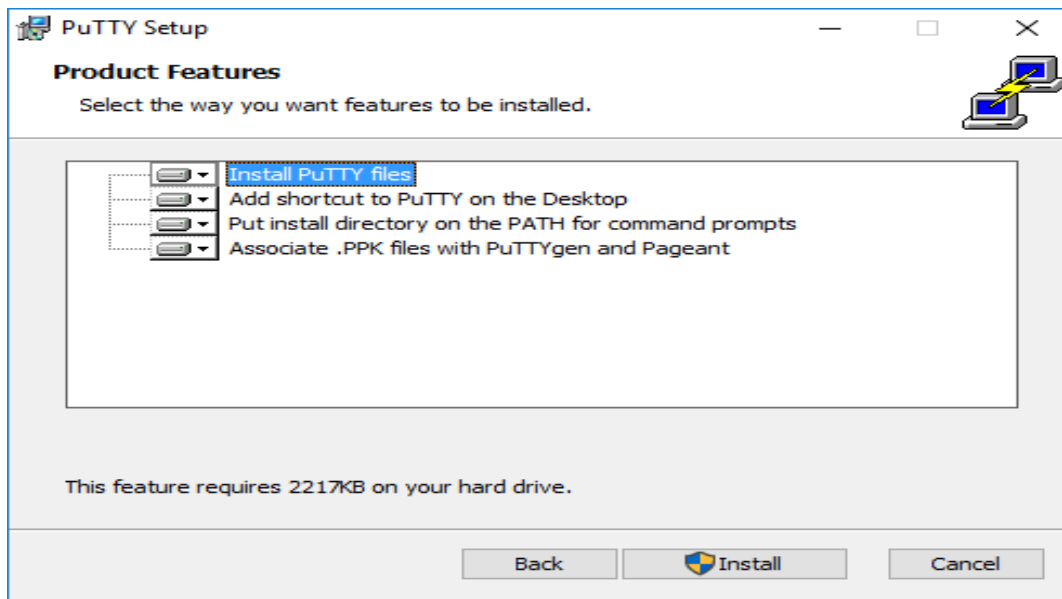
The following screen will open.



Click Next. The following screen opens. It allows you to select directory where the Putty software will be installed. Click Next.

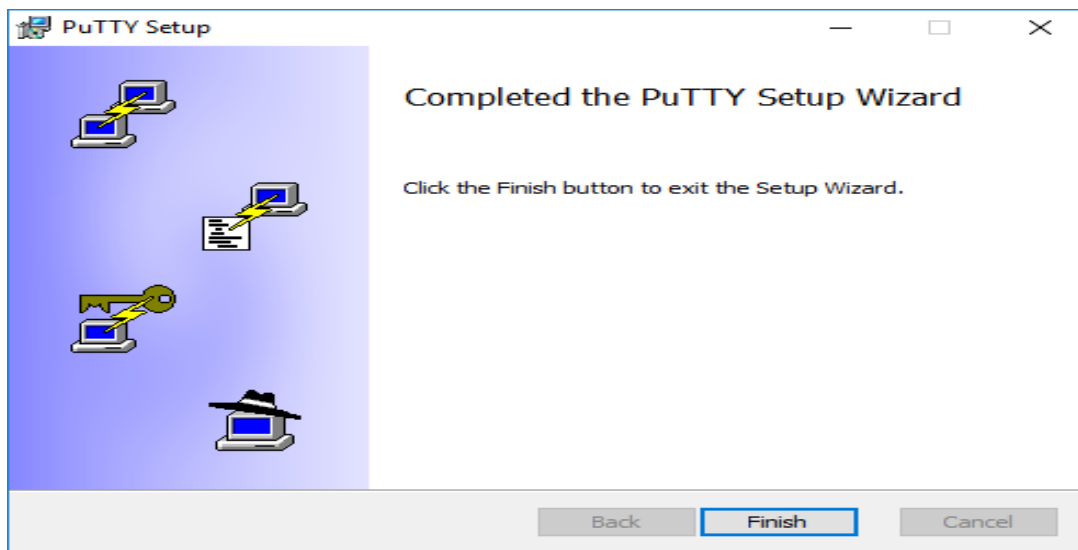


The following screen opens.



Click Install to start Installation. If you have not logged in as Administrator, it may prompt you for a password.

The installation will proceed. The following screen is displayed when it finishes.



Click Finish to complete the installation.

Now log in to the <https://my.imdemocloud.com> site with your username and password. Once you login click on the following tab on the site.

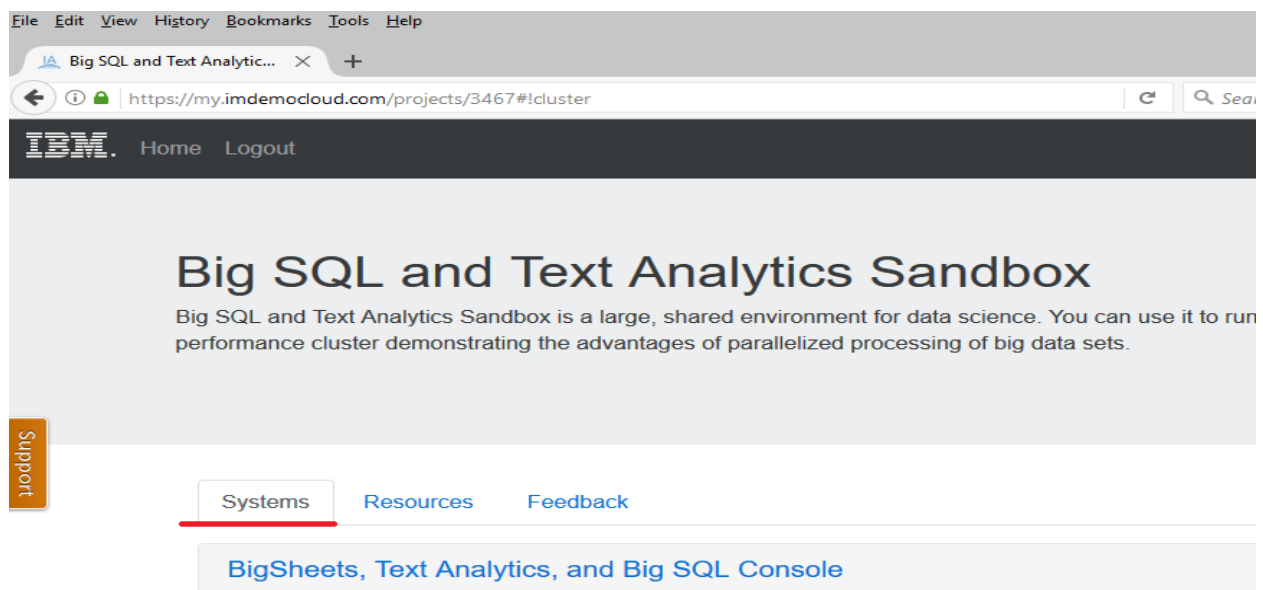
Big SQL and Text Analytics Sandbox

Your Projects

Big SQL and Text Analytics Sandbox

Big SQL and Text Analytics Sandbox is a large, shared environment for data science. You can use it to run R, SQL, Spark, and Hadoop jobs. It is a high performance cluster demonstrating the advantages of parallelized processing of big data sets.

On the page that opens, click the systems tab as shown below.



On that page scroll down and go to the connection details section. In that section the ssh connection information is given. Copy the full name after ssh . This is shown below marked with a red line.

Ambari Console

Ambari Console provides a read-only view of different services and metrics on the cluster

[Launch](#)

Connection Details

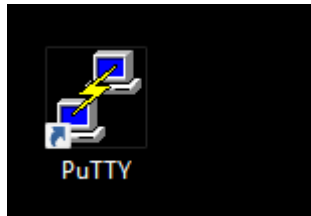
Your username is `systemt`. All services use your Demo Cloud password. Change the password in your profile

The server hostname is `systemt.datascientistworkbench.com`

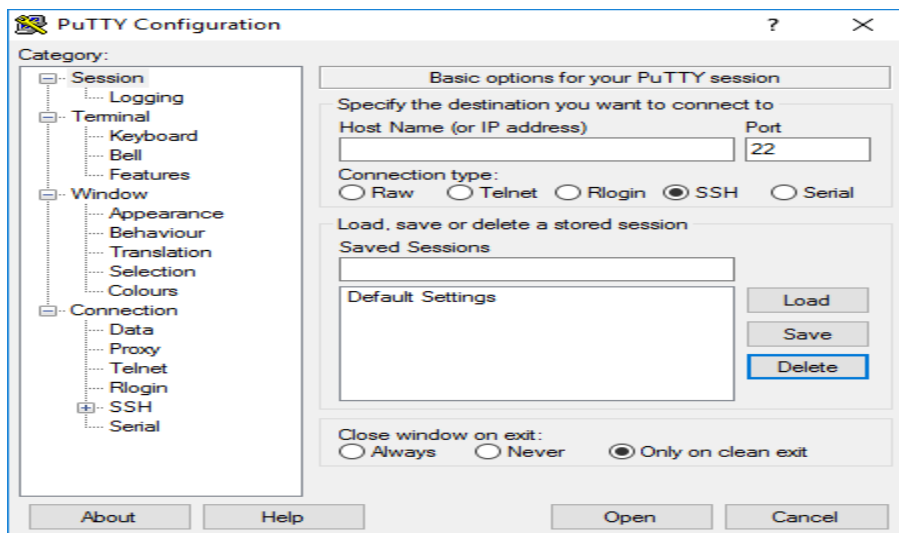
You can use your Demo Cloud username and password to connect to the SSH command line on the cluster. Sample command:

```
ssh systemt@systemt.datascientistworkbench.com
```

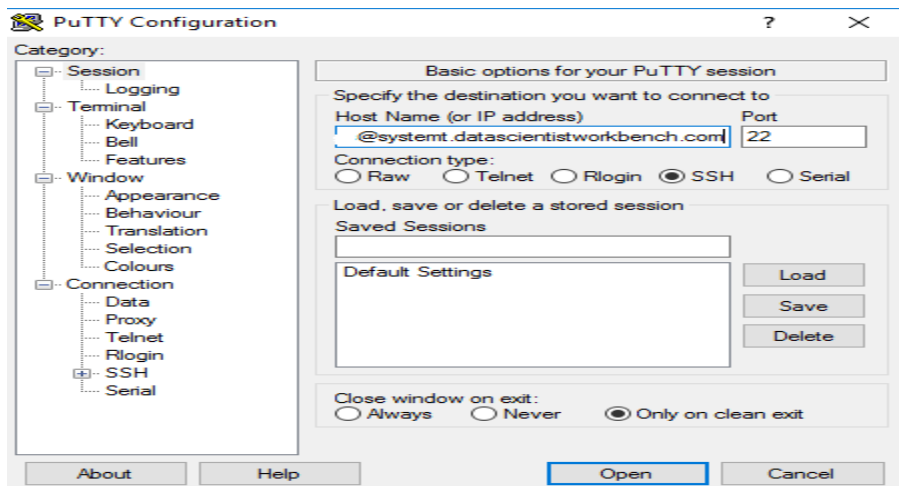
After that double click the following icon on the desktop.



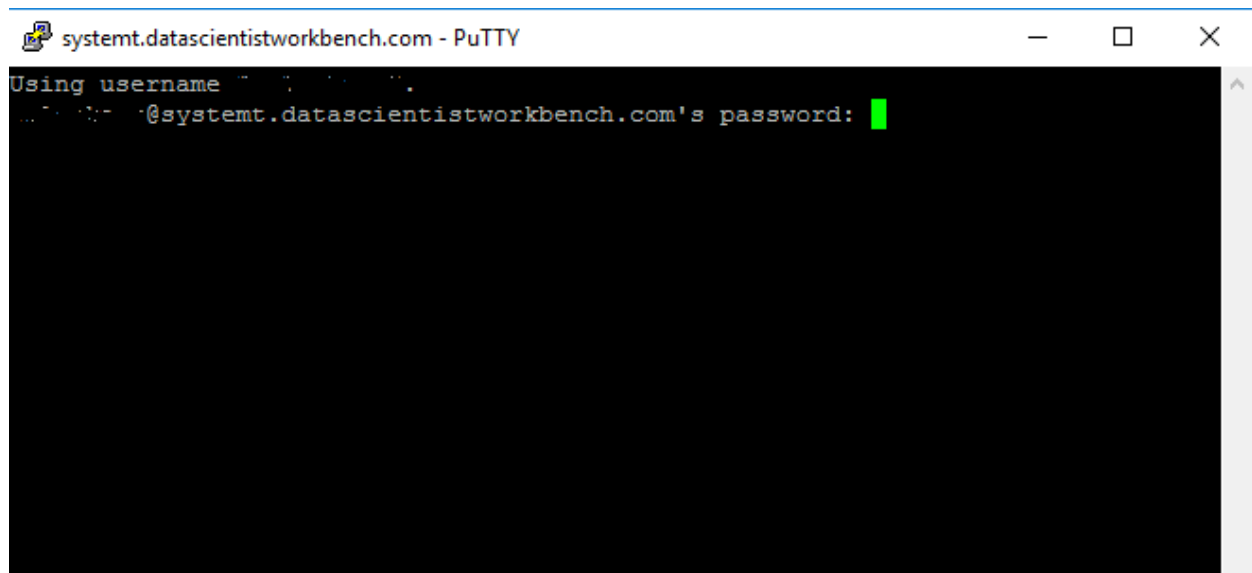
This will start the putty program. The following screen opens.



Now paste the username@systemname that was copied in the above step in the Host Name field. This is as shown below.

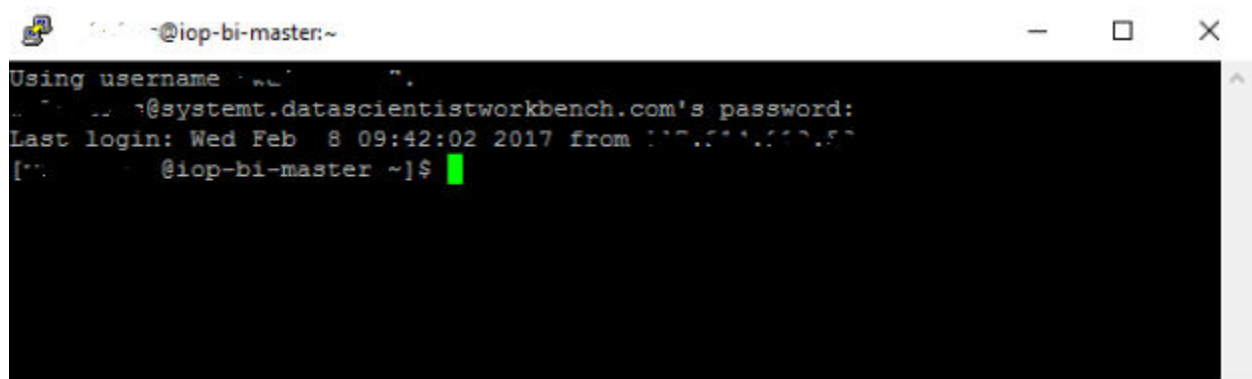


Then click Open button a command window will open as shown below. It will prompt for the password. Specify the same password that you used to login to IBM cloud site.

A terminal window titled "systemt.datascientistworkbench.com - PuTTY". The text inside shows a login prompt: "Using username 'root'." followed by a password prompt: "root@systemt.datascientistworkbench.com's password:". A green cursor is visible at the end of the password prompt.

```
systemt.datascientistworkbench.com - PuTTY
Using username 'root'.
root@systemt.datascientistworkbench.com's password: 
```

Once you type the correct password the system will provide a command prompt. This is as shown below.

A terminal window titled "root@iop-bi-master:~". The text inside shows the login process: "Using username 'root'." followed by a password prompt: "root@systemt.datascientistworkbench.com's password:". After the password is entered, it shows the last login information: "Last login: Wed Feb 8 09:42:02 2017 from 107.171.112.50" and the command prompt: "[root@iop-bi-master ~]#". A green cursor is visible at the end of the command prompt.

```
root@iop-bi-master:~
Using username 'root'.
root@systemt.datascientistworkbench.com's password:
Last login: Wed Feb 8 09:42:02 2017 from 107.171.112.50
[root@iop-bi-master ~]# 
```

This a Linux system with Hadoop pre-installed. Just run some Hadoop commands as show below.

```

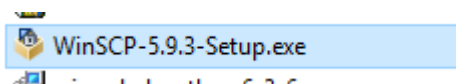
[...@iop-bi-master ~]$ hdfs dfs -ls /
Found 12 items
drwxrwxrwx   - yarn   hadoop           0 2017-02-08 22:31 /app-logs
drwxr-xr-x   - hdfs   hdfs            0 2015-10-13 16:46 /apps
drwxrwxr-x   - hdfs   hadoop           0 2015-12-23 11:31 /biginsights
drwxrwx---   - bigr   hdfs            0 2016-03-02 10:56 /home
drwxr-xr-x   - hdfs   hdfs            0 2015-12-22 19:39 /ibmpacks
drwxr-xr-x   - hdfs   hdfs            0 2015-10-13 16:43 /iop
drwxr-xr-x   - mapred hdfs            0 2015-10-13 16:43 /mapred
drwxr-xr-x   - hdfs   hdfs            0 2015-10-13 16:43 /mr-history
drwxrwxrwx   - hdfs   hdfs            0 2017-02-07 23:58 /public
drwxrwxr-x   - hdfs   hdfs            0 2016-01-28 13:32 /sample_data
drwxrwxrwx   - hdfs   hdfs            0 2017-02-07 20:21 /tmp
drwxrwx--x+  - hdfs   hdfs            0 2017-02-08 22:37 /user
[...@iop-bi-master ~]$

```

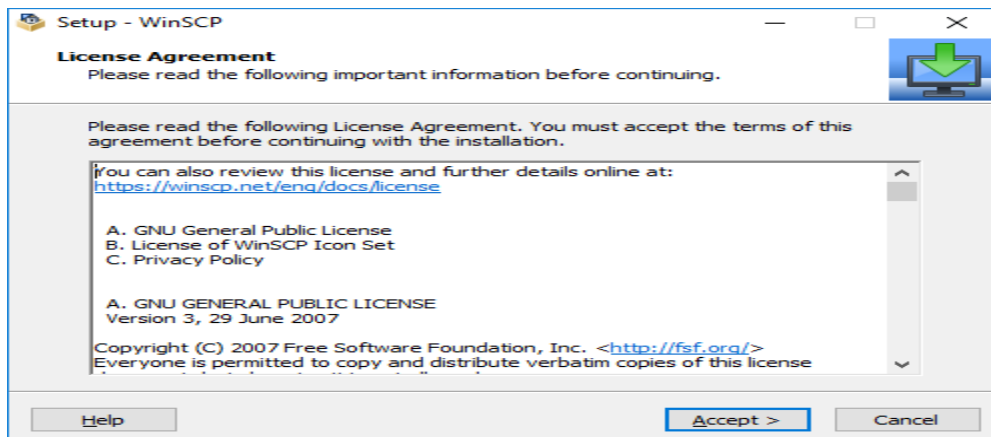
Thus now you can execute your Hadoop applications on this cloud computer.

To copy data from your local machine to this cloud system a utility called WinSCP is used. The following steps guide you through installation of WinSCP and its use.

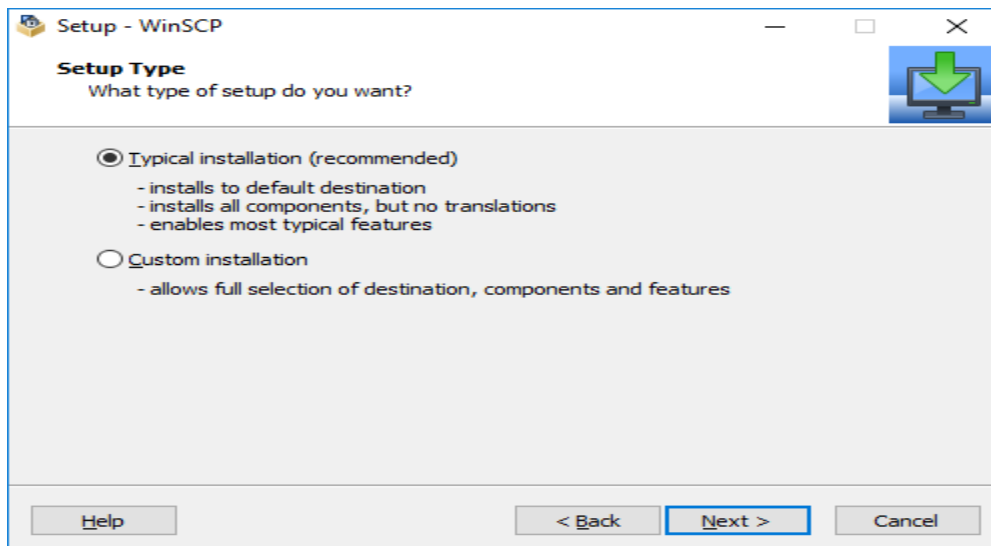
Double click the following installer.



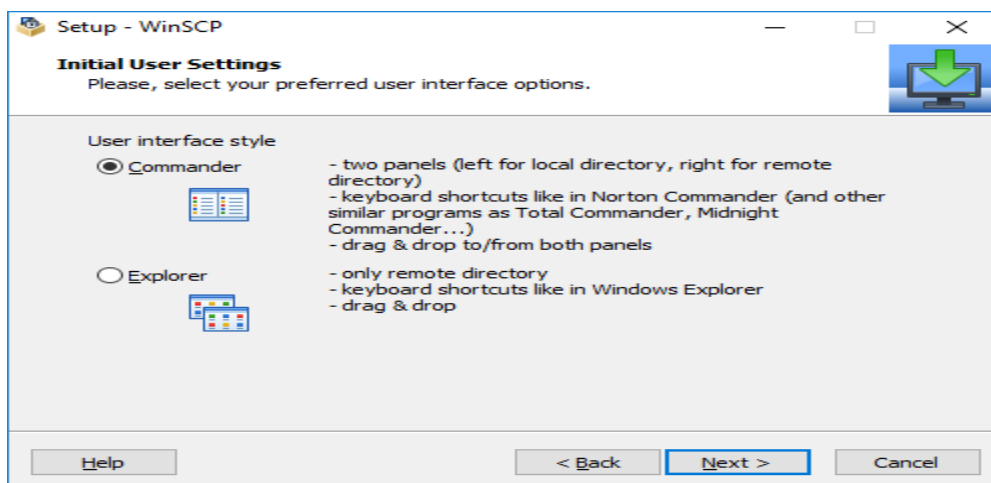
It will start installation process. The following screen will be displayed. It may prompt for the administrator password if you have not logged in as administrator.



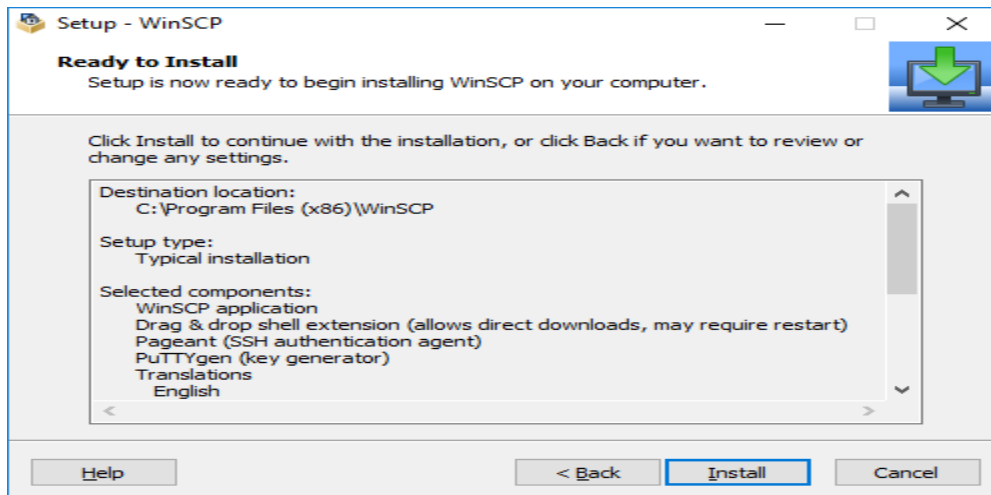
Click Accept.



Click Next on the above screen.



Click Next on the above screen.



Click Install.



Uncheck the required boxes. Click Finish.

This installs WinSCP on your computer.

Now using WinSCP transfer required files to the IBM cloud computer.

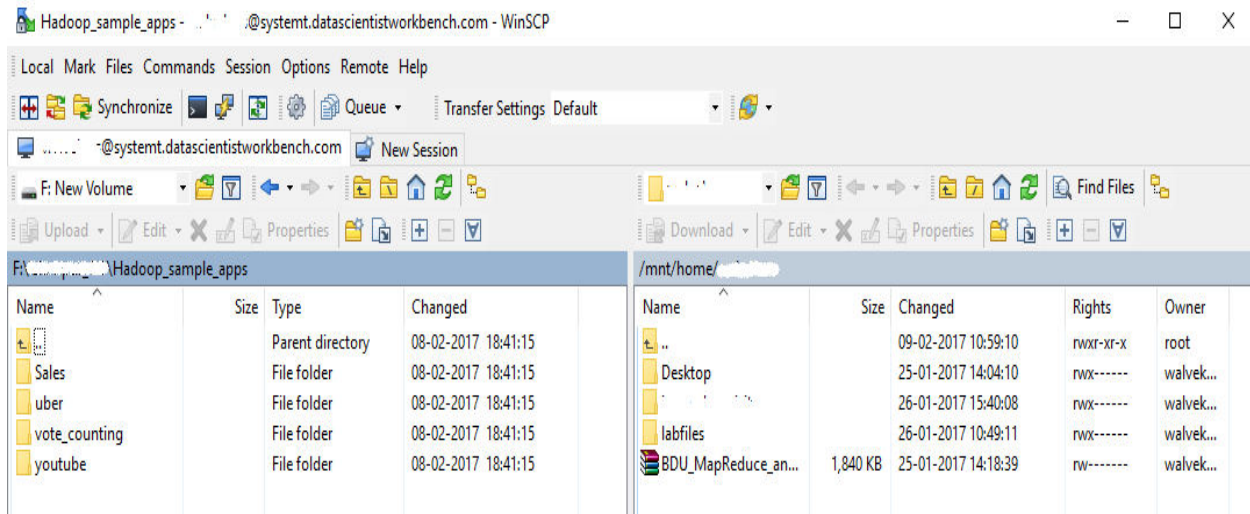
Open WinSCP. The following window opens.

The screenshot shows a window titled "Login" with a standard Windows-style title bar (minimize, maximize, close buttons). On the left is a large empty box labeled "New Site". To the right is a "Session" configuration panel. It includes a "File protocol:" dropdown menu set to "SFTP". Below this are fields for "Host name:" (empty), "Port number:" (set to 22), "User name:" (empty), and "Password:" (empty). There are "Save" and "Advanced..." buttons below these fields. At the bottom of the window are four buttons: "Tools" (with a dropdown arrow), "Manage" (with a dropdown arrow), "Login" (with a green arrow icon and a dropdown arrow), and "Close". A "Help" button is also present on the far right.

In the host name field paste the username@systemname information copied from the connection details page of IBM cloud site. Also provide your username and password. This as shown below.

This screenshot shows the same "Login" window, but now the fields are populated. The "Host name:" field contains "systemt.datascientistworkbench.com". The "Port number:" field remains at 22. The "User name:" field is empty. The "Password:" field is filled with 12 dots. The "Save" and "Advanced..." buttons are still present. The "Login" button at the bottom is now highlighted with a blue border, indicating it is the next step in the process.

Click Login. Once you login successfully the following screen opens.



In the above window the left pane displays the files on your computer. The right side pane displays the files on the cloud computer. Now copy the required files to the cloud computer.

To copy the files just select the folder or file that you want to copy, drag and put it on other side. Now just type ls in the putty session window and you will be able to see the new data.

You can copy this data to hadoop and run your applications on the IBM cloud computer.