

Requirement for the how-tos:

1) Prepare the following 8 how-tos.

1. download and install MobaXterm (draft included) (for windows)
2. log on to server using MobaXterm (for windows)
3. transfer files using MobaXterm (for windows)
4. log on to storm (for Mac/Linux)
5. transfer files (for Mac/Linux)
6. Introduction to Linux environment and emacs (for all)
7. Introduction to Linux environment and vi (for all)
8. Submit programs to autograder

2) Hint: Use the screenshot and screen dump to take a picture of part of your screen, and use Preview (on Mac) to add some highlighting text/circle if needed.

3) Follow the following examples to write draft how-to documents; after revision by the instructors, generate a PDF file for each task.

Start from here....

1. How to: Install MobaXterm (Windows)

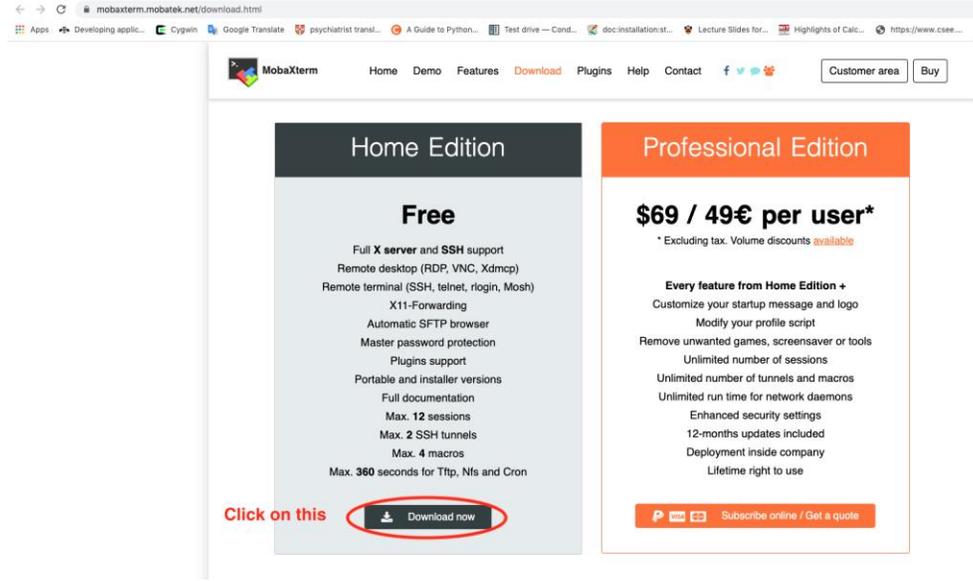
Step 1: Make sure your computer is connected to the Internet. If you are wireless on campus, be sure you are on the Fordham-S wireless network (not Fordham-P).

Step 2: Download MobaXterm:

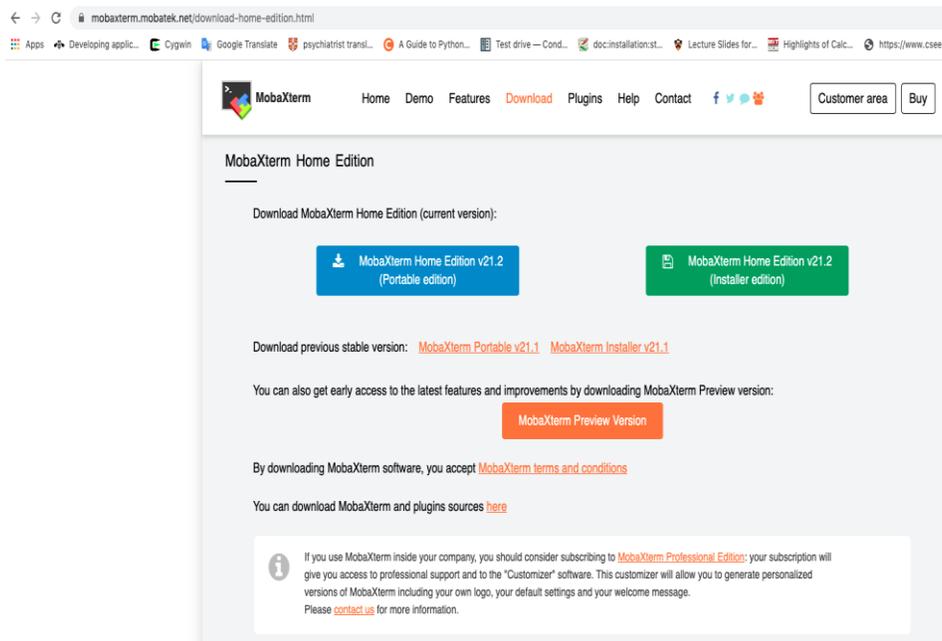
Type the following URL to your browser:

<http://mobaxterm.mobatek.net/download.html>

On the page (as below), click on the “Download now” button under the Home Edition (Free).



Then on the following page, click on the green button “MobaXterm Home Edition...” to start downloading the installer file.



Step 3: Install MobaXterm

A file named MobaXterm_Installer_v21.2.zip is downloaded to your computer. Double click on the file to unzip the file, ...

[Please try this out on a windows computer so that you can fill in with more details if needed.]

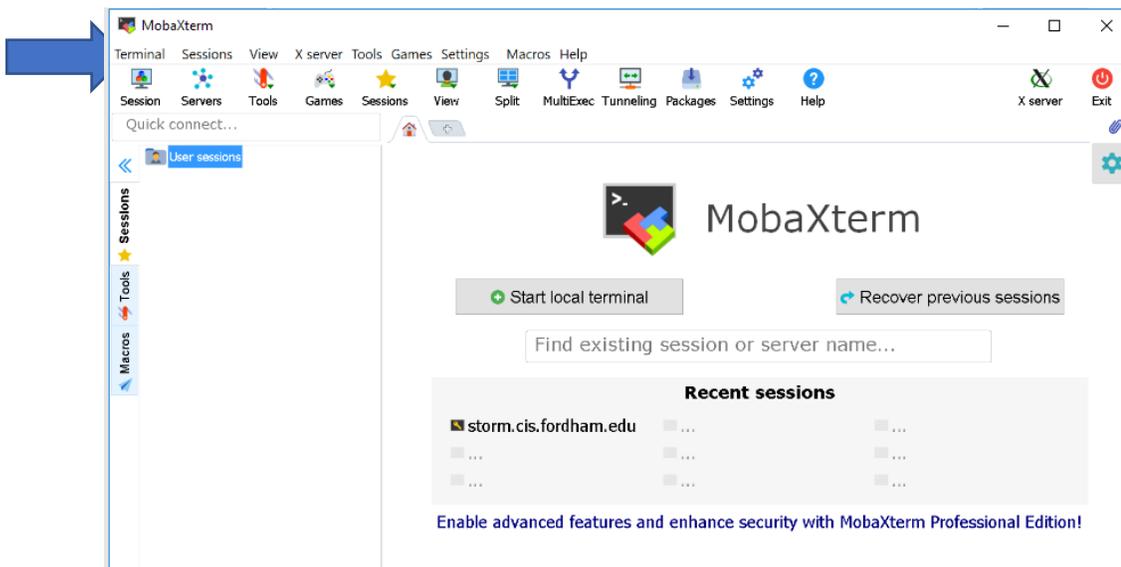
Step 4: Now you can run MobaXterm

Congratulations, you have successfully downloaded and installed MobaXterm. [Create a shortcut in your desktop for this application.] From now on, you can use MobaXterm to log on to a remote server (such as storm.cis.fordham.edu).

2. How to: Remote login using MobaXterm (Windows)

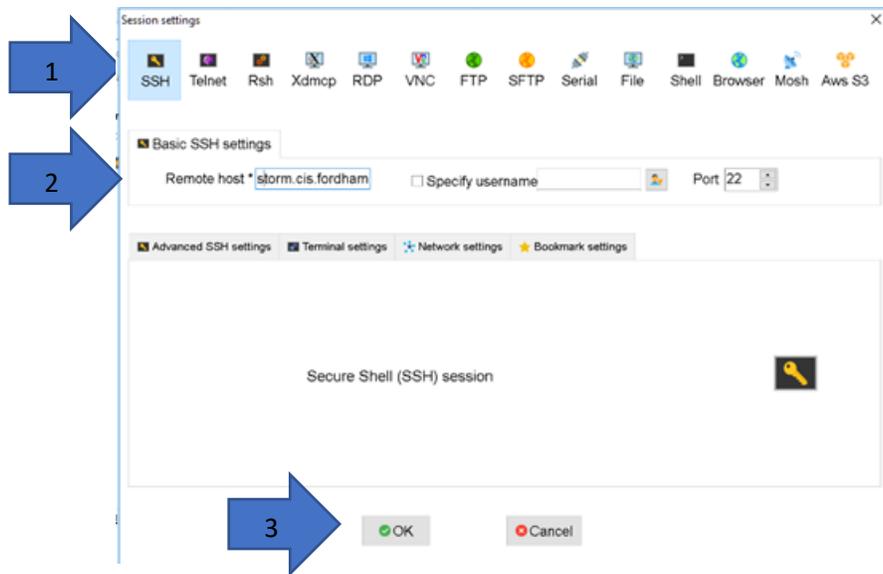
Step 1: If you haven't installed MobaXterm, please follow the **How to: download and install MobaXterm** to install this program on your computer. You will need an account to access the remote server (**storm.cis.fordham.edu** for RH classes, **erdos.cis.fordma.edu** for LC classes). Please speak with your instructor if you don't have one, or forgot your account ID or password.

Step 2: Double click on the MobaXterm icon to start the program. The following window will appear:



Step 3: Click on the **Session** button on the top left of the window:

Step 4: [In the new window], first click the **SSH** button (top left), then in the **Remote Host** text box, enter the host name of the remote server to which you want to connect*, and click the **Ok** button.
storm.cis.fordham.edu



Step 5: Enter your userid and password ...

How to: transfer files to/from remote machine (MobaXterm)

How to: remote login from MAC

Click Spotlight
Type terminal

Type the following command into the prompt:

```
ssh your-id@storm.cis.fordham.edu
```

At the prompt, type in your password, and then press **Enter**.

How to: Transfer files from/to remote machine (Mac)

[[Courtney: Here is a video on how to use scp or sftp command.](#) [YouTube video on scp and sftp.](#)
Please learn how to use scp command, and explain it in step-by-step process.]

Introduction to Linux environment and emacs

Step 1: After you follow the instructions given in xxx to log on to the server, and you will see a prompt message like the following, indicating that you have logged onto the storm server:

```
[zhang@storm ~]$
```

[Courtney: please replace zhang by some common fake user name].

This is a prompt message made up of your account id, the server's name. The system is waiting for you to enter commands. The first command we use is **passwd** for changing passwords.

Step 2: [Only do this if this is your first time login to the server] Type command **passwd** at the prompt, You will be asked to enter your current password, and then enter your new password twice... (Note that the password you type in is not displayed on the terminal for security reasons).

[Please replace the following with a screenshot]

```
[zhang@storm ~]$ passwd
```

Changing password for user zhang.

Changing password for zhang.

(current) UNIX password:

New password:

Retype new password:

passwd: all authentication tokens updated successfully.

Step 3: Storm is a Linux system (a type of operating system) which is considerably different from Windows, and similar to Mac. In order to be more productive in this class, you need to learn some basics about how to get things done in the Linux system. The following two tutorials will help you get started:

- Tutorial One at [here \(http://storm.cis.fordham.edu/~zhang/cs1600/labs/unix1.html\)](http://storm.cis.fordham.edu/~zhang/cs1600/labs/unix1.html)
- Tutorial Two at [here \(http://storm.cis.fordham.edu/~zhang/cs1600/labs/unix2.html\)](http://storm.cis.fordham.edu/~zhang/cs1600/labs/unix2.html)

Step 4: Using emacs

Follow the tutorial here to learn the basics of emacs, to type in a simple hello world program below

http://ergoemacs.org/emacs/emacs_basics.html

In your notebook, write down how to:

- start emacs to edit a file
- exit emacs
- save your file
- move your cursor around in emacs: how to go to next line, how to go to beginning of line
- delete a word, a character, a line, ...

//This program outputs the message "Hello world!" to the monitor

```
#include <iostream>
```

```
using namespace std;
```

```
int main() //C++ programs start by executing the function main
```

```
{
```

```
    cout << "Hello, world!\n"; //output "Hello, World!"
```

```
    return 0;
```

}