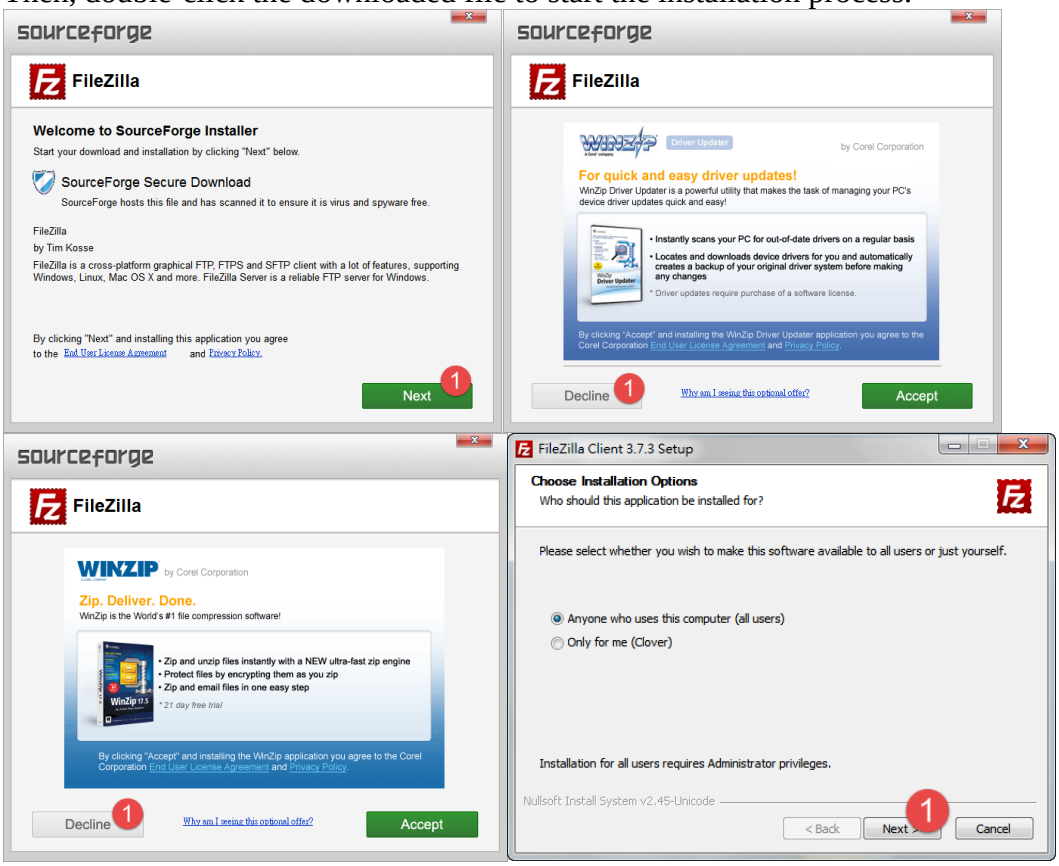
1 FTP with FileZilla

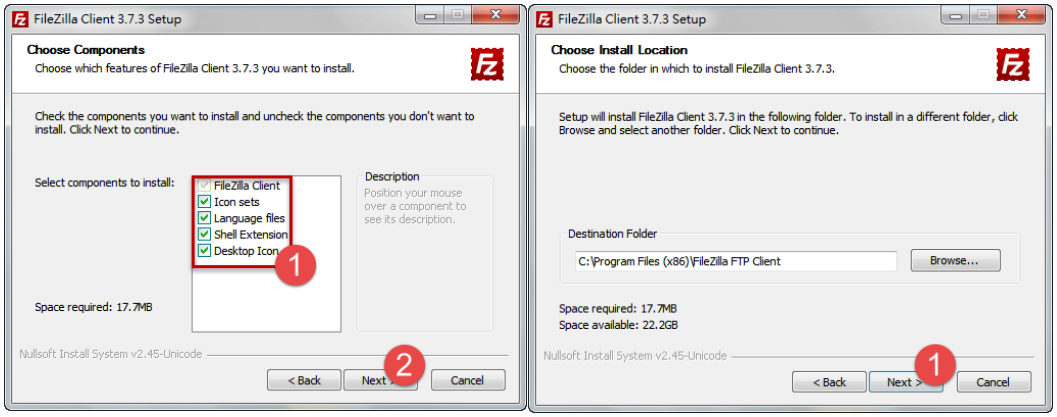
There are two use cases with FileZilla: (1) To download your lab or hw programs from EE workstation to your own PC, which you did at EECS406, and (2) To upload your lab or hw programs to EE workstation for tests. Note that EE workstation are CentOS Linux machines. Program behavior could be different from your Windows machine.

1.1 Download and Install FileZilla

First, you download a latest version of FileZilla from https://filezilla-project.org/.

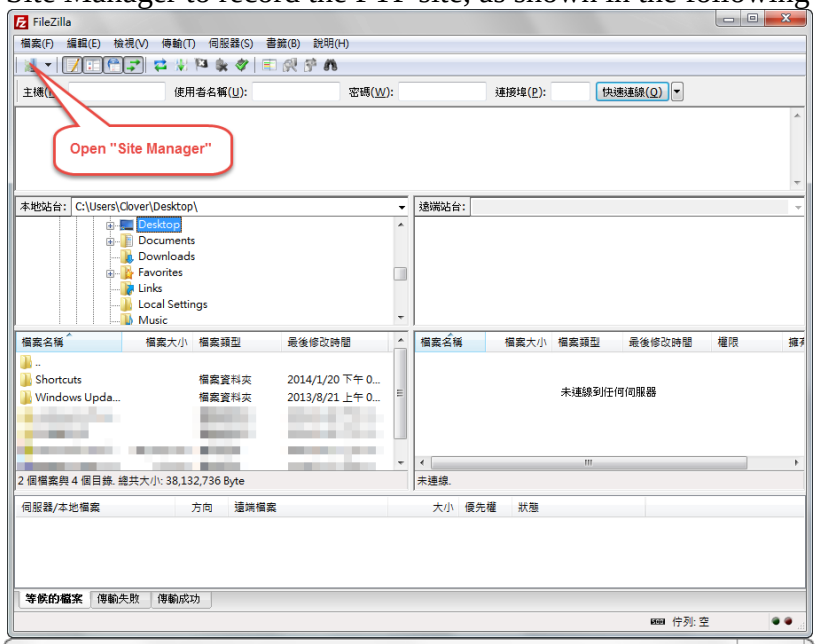
Then, double-click the downloaded file to start the installation process.



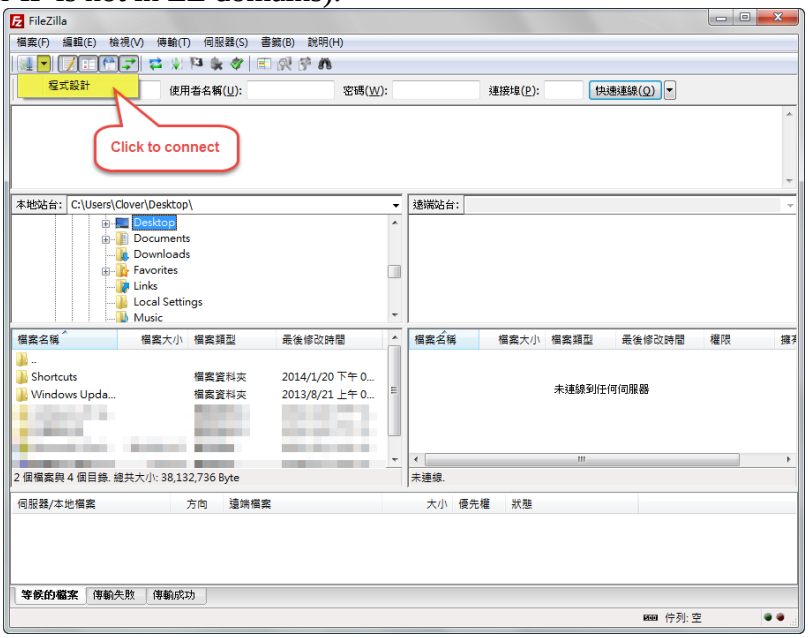


1.2 Login and Logout FTP Server

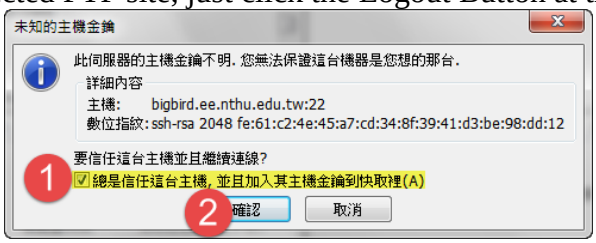
To login a FTP server, you can use the Quick link bar on the top of FileZilla, or you can use the Site Manager to record the FTP site, as shown in the following figures.



After adding the FTP site to Site Manager, you can login the FTP server via the list of Site Manager. (Note that you can only connect to our entry EE server bigbird or daisy if your IP is not in EE domains).

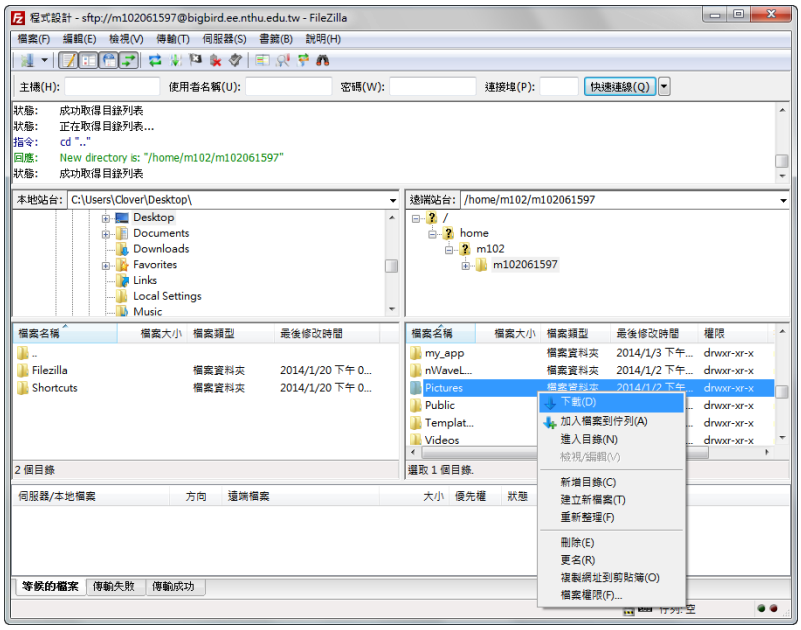


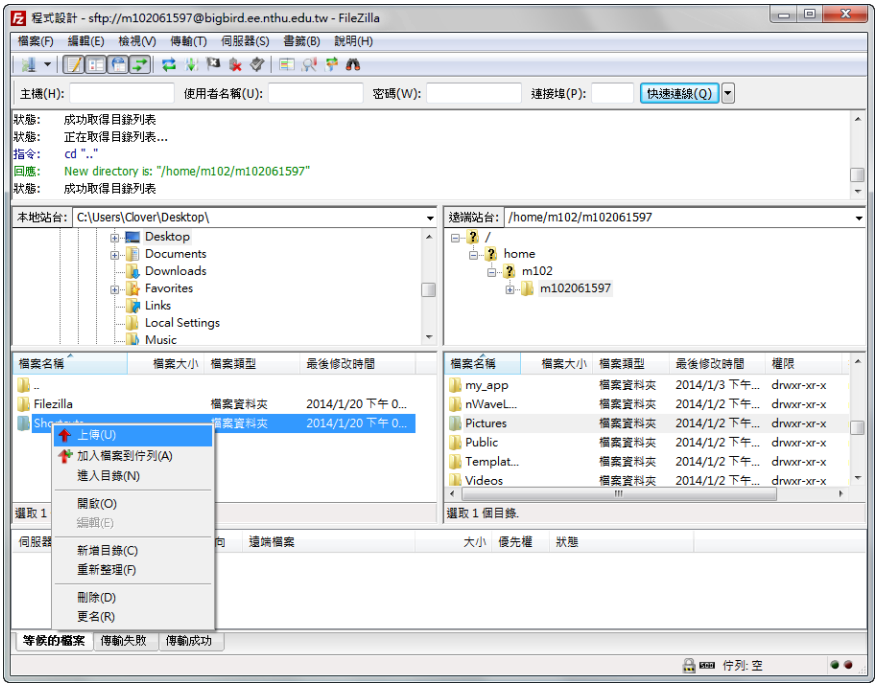
To logout the connected FTP site, just click the Logout Button at the top bar.



1.3 Download and Upload File

It's straightforward to download and upload files with FileZilla. By default, local files in your computer will be listed in the left panel and the remote files will be in the right panel. You can download and upload files by drag-and-drop remote and local files in FileZilla.

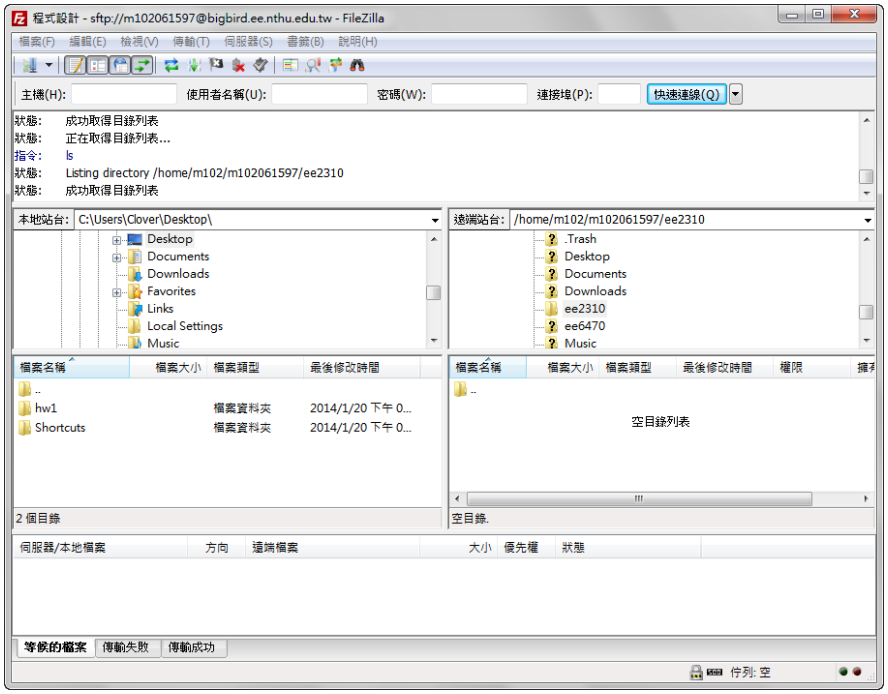




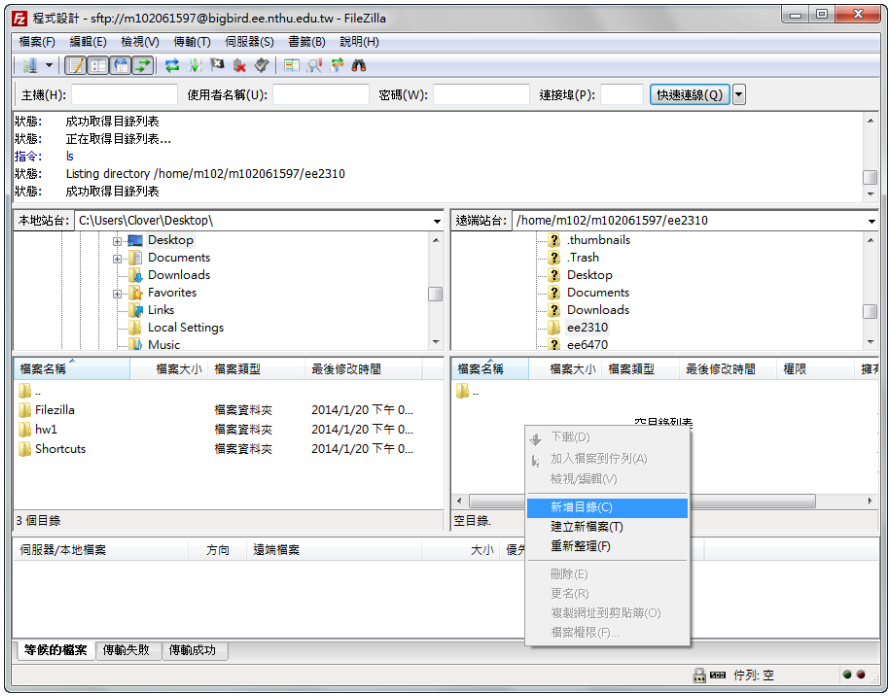
1.4 Upload Codes to EE Workstations for Verification

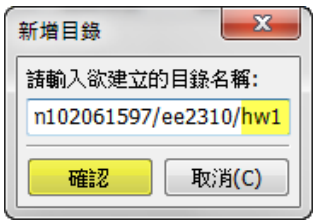
This section describes the steps to upload your codes (homeworks) to EE workstations. Once you have uploaded the codes, you can use putty to login (see Remote Login with Putty), compile and run your programs in command mode (see Programming in Command Line) or login with MobaXterm to the workstations for both command and X windows (see Using MobaXterm).

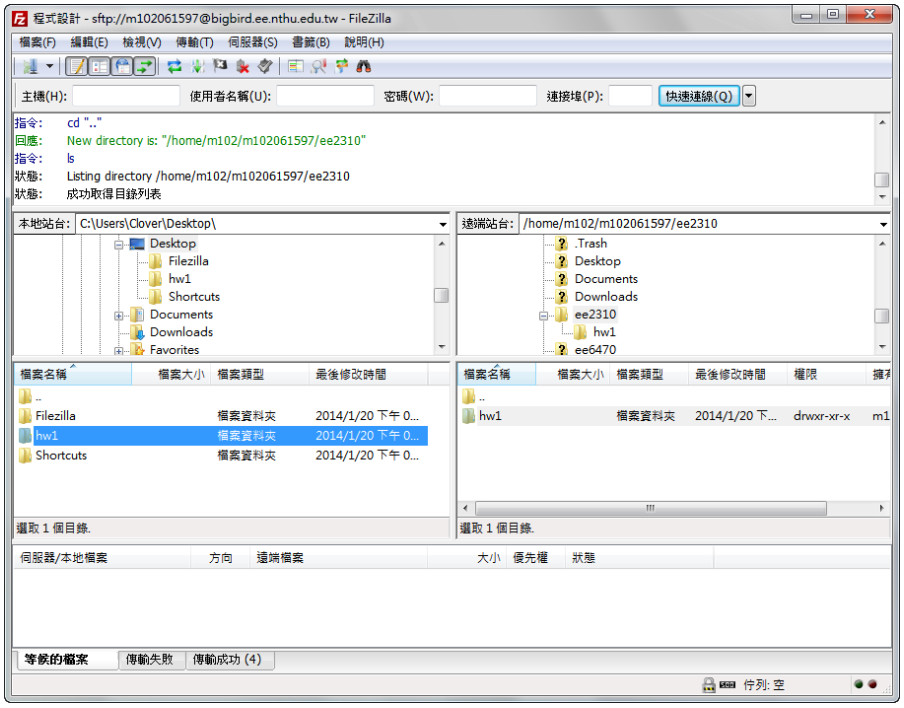
- Use FileZilla connect to EE workstation, such as bigbird or daisy.
- After the FTP connection, change remote directory to “ee2310” (double-click).



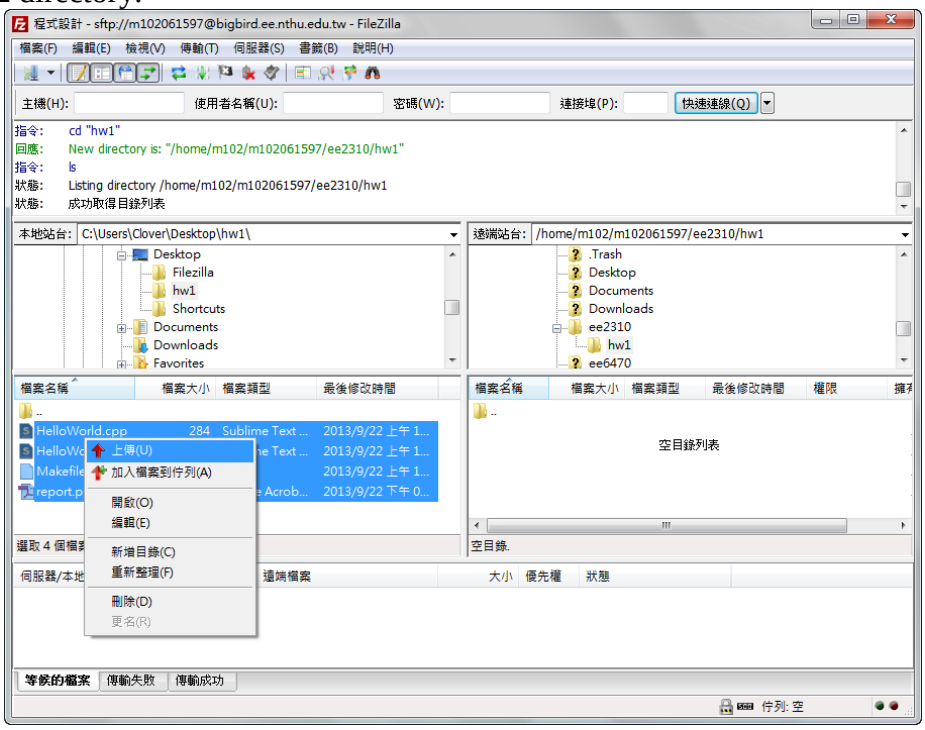
- Change remote directory to “hw2” (“hw2” is the homework directory you want to save the program). If the directory does not exist, right-click in the remote directory to create one.



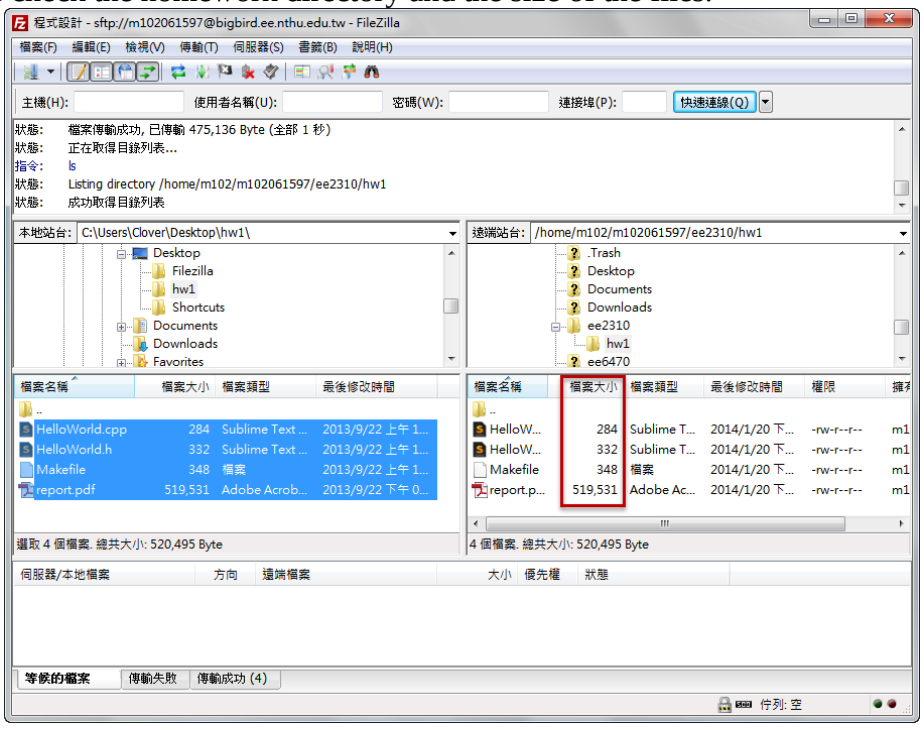




- Select and upload your source codes, homework report (hw2.pdf) or related files to the hw2 directory.



- Double check the homework directory and the size of the files.

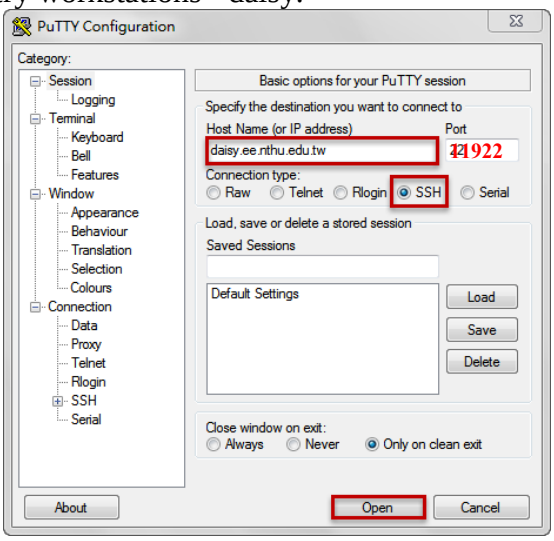


- Logout the EE workstation.

2 Remote Login with Putty

If you want to login EE workstation from your PC (or when you are not in EE Workstation Room at EECS406), you will need a software which supports ssh protocol, such as putty. Please google and download for versions that run on your PC. It's a single executable file. You simply copy it to your desktop and double-click will run the program. However, note that only command-line environment is available with putty or any ssh programs (you need to type commands; there is no GUI).When operating with command line, some knowledge with Linux commands will be very helpful (check http://linux.vbirg.org to learn more), e.g., ls, cp and mv. Moreover, you have to ssh to entry workstations first: bigbird or daisy. And then ssh to other Linux workstations for your work such as ws23."

- First, we ssh to an entry workstations - daisy.



- key in account and password to login, then we can login the entry workstation and get a command-line environment.

```
login as: m9861569
Using keyboard-interactive authentication.
Password:
Last login: Mon Feb 13 12:48:14 2012 from s9861569.HUNG.a
Sun Microsystems Inc.   SunOS 5.10     Generic January 2005
$
```

- We can login to another workstation with ssh command under the command-line environment.

```
$ ssh ws23
m9861569@ws23's password:
Last login: Mon Feb 13 13:09:59 2012 from daisy
```

- When you finish the work, please use command logout or exit to logout the workstation.

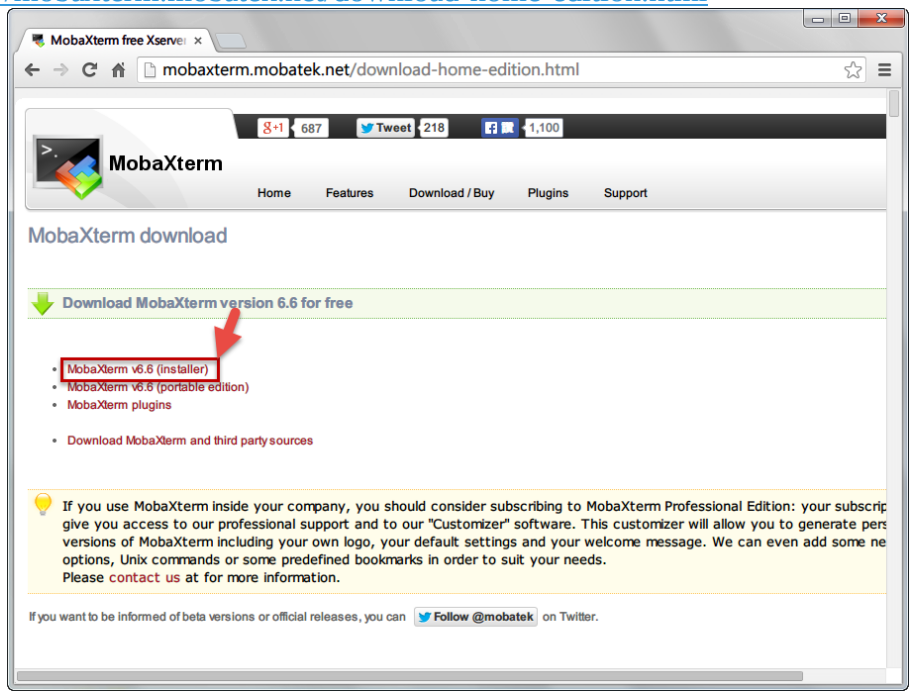
```
$ exit
```

3 Using MobaXterm

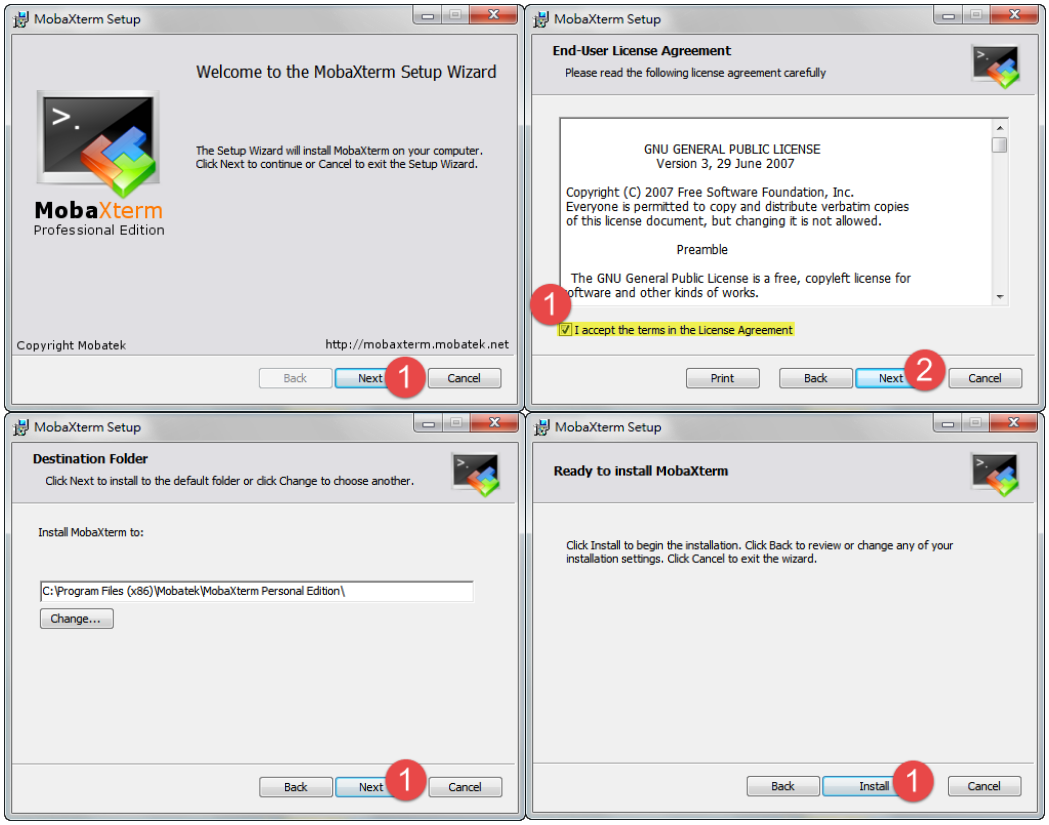
MobaXterm is a X Window Server for Microsoft Windows XP or 7. We can use it to run remote Qt session if your network speed is reasonably fast, such as in Tsing Hua domains.

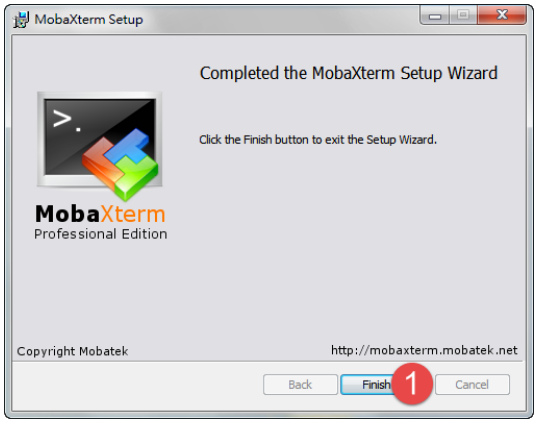
3.1 Install MobaXterm

First, download MobaXterm from website as shown in http://mobaxterm.mobatek.net/download-home-edition.html



Double-click on the downloaded file and install MobaXterm as shown below.

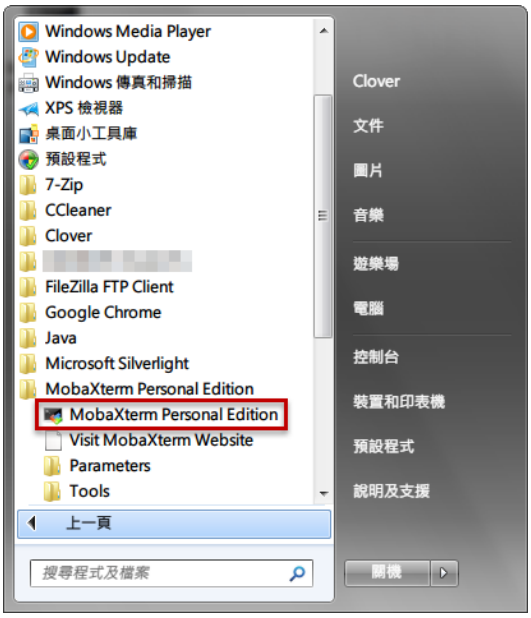




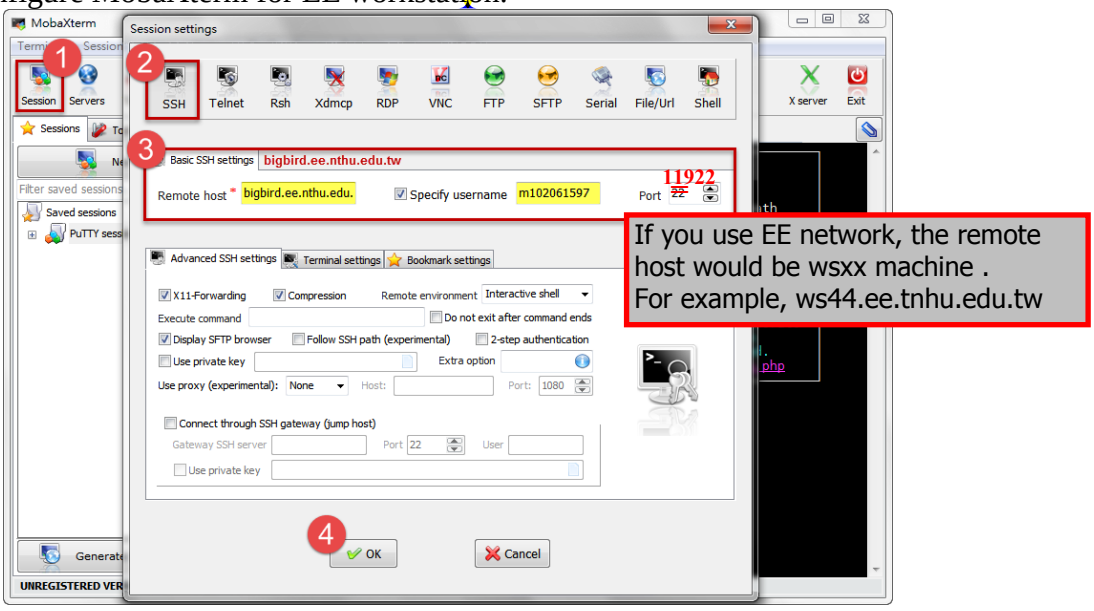
3.2 Execute MobaXterm

After installing MobaXterm on your PC, you may run it to connect to our workstation with X windows support.

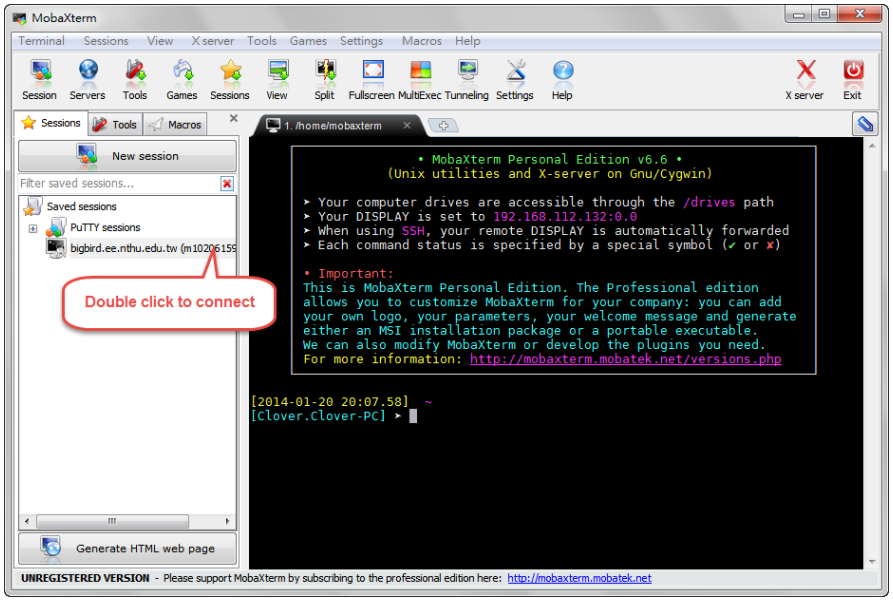
- Execute MobaXterm from the Start menu.

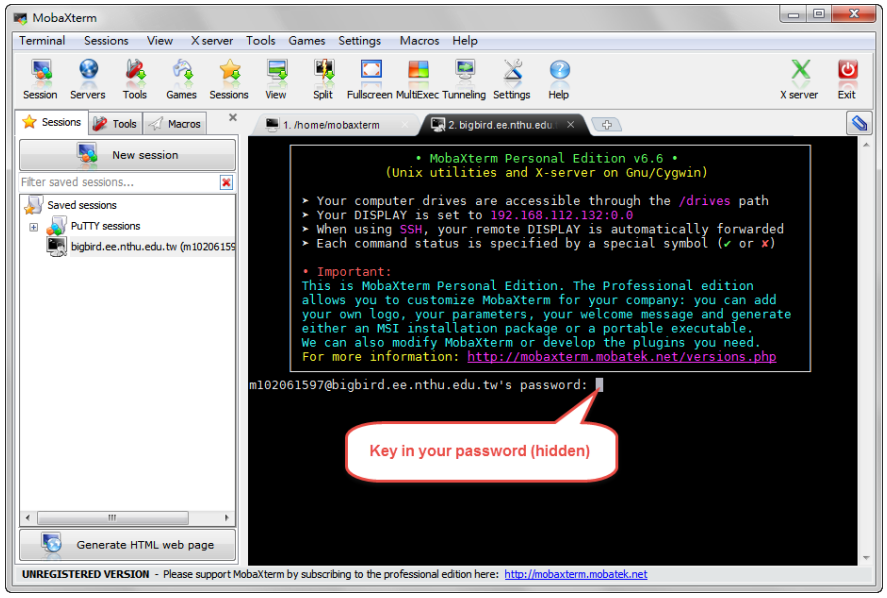


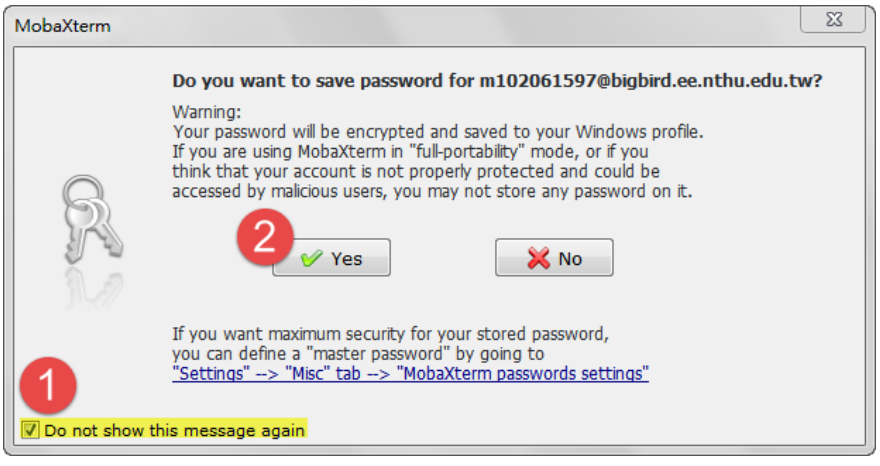
- Configure MobaXterm for EE workstation.



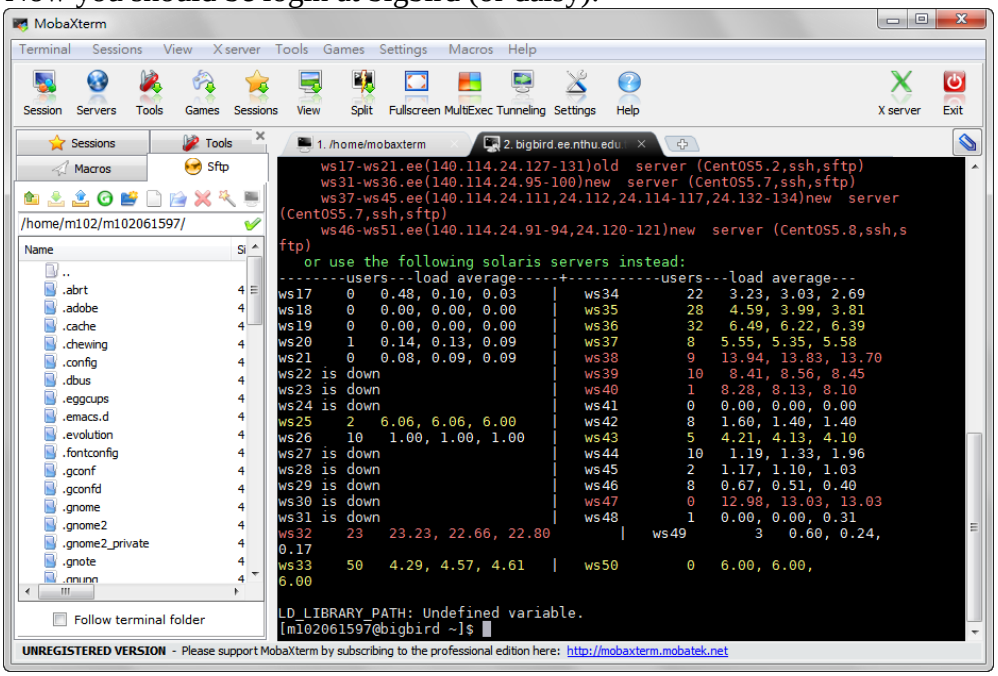
- Connect to EE workstation.







- Now you should be login at bigbird (or daisy).



#. Please use ssh to login wsXX machines if you try to access some softwares for your courses. For example, we may login ws44 with the following command: ssh -X ws44. Please add "-X" option to forward X windows to your desktop screen. Now you may launch any X applications remotely. For example, run “gedit” editor with “gedit &”.

```
$ ssh -X ws44
$ gedit &
$
```