

CSC3320 System Level Programming

Lab Assignment 1 - Part 2 (Post-Lab)

Purpose: Know how to install a Unix system in a virtual machine.

Part A: Environment Configuration for Unix system.

Install a virtual machine and Ubuntu in your operating system. x

For **Windows** users, please follow guide [VirtualBox](#) and [Vmware Player](#).

x For **Mac** users, please follow guide [VirtualBox](#)

Note:

You can also refer to the video under link below

For Mac OS https://www.youtube.com/watch?v=_42JLz2izBU

For Windows <https://www.youtube.com/watch?v=ncA85gRAJxk>

Part B: Test your SSH connection in Ubuntu

(1) Log in to your Ubuntu system, and open “Terminal”.

Click **Dash Home** and search “Terminal”. Then select “Terminal” and open it.

In “Terminal”, use command `ssh` to connect server `snowball.cs.gsu.edu`.

`Ssh campusId@snowball.cs.gsu.edu`

E.g. my campus Id is `frondell`, so I use `ssh frondell@snowball.cs.gsu.edu`

Note:

1. Your password for campus Id should be the password for this server.
2. If the server warns you that the authenticity of host cannot be established and ask you if you want to continue connecting, please enter “yes”.
3. Remember to hit “Enter” once you input the command after the prompt ‘\$’.

(3) Attach a screen shot like following figure in your report. Name your screenshot file as L1_P2_FirstnameLastname.png (or .jpg). E.g. L1_P2_FilRondel.png

This figure includes your “terminal” and ssh connection.

A screenshot of a terminal window. The title bar at the top reads "GSUAD\ylong4@snowball:~". The terminal content shows a user at a local machine (ylong@ubuntu:~) running the command "ssh ylong4@snowball.cs.gsu.edu". The terminal then prompts for a password, which is not entered. It then displays the last login information: "Last login: Thu Aug 28 13:34:54 2014 from 131.96.212.84". Finally, the prompt changes to the remote machine: "[GSUAD\ylong4@snowball ~]\$".

```
GSUAD\ylong4@snowball:~
ylong@ubuntu:~$ ssh ylong4@snowball.cs.gsu.edu
Password:
Last login: Thu Aug 28 13:34:54 2014 from 131.96.212.84
[GSUAD\ylong4@snowball ~]$
```

Note : Screen shot short cut in Mac OS, command + shift + 4; in windows, use key PrintScreen.

Submission:

- Upload the screenshots required in Part B to Google Classroom.

Appendix:

To check the ssh connection

x For a Mac user, you can also try the utility “Terminal” in Mac OS.

x For a Windows user, you can also try the terminal emulators, e.g. [PuTTY](#), [Xshell](#) . Note: In the connection configuration, host name is snowball.cs.gsu.edu, login account name is your campus Id, protocol is ssh, and port is usually 22.

Useful links:

1. Download Xshell

https://www.netsarang.com/download/free_license.html

2. Xshell Tutorial <https://www.netsarang.com/tutorial/xshell/1004>