
CS135 Lab - Intro

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Exercise 1

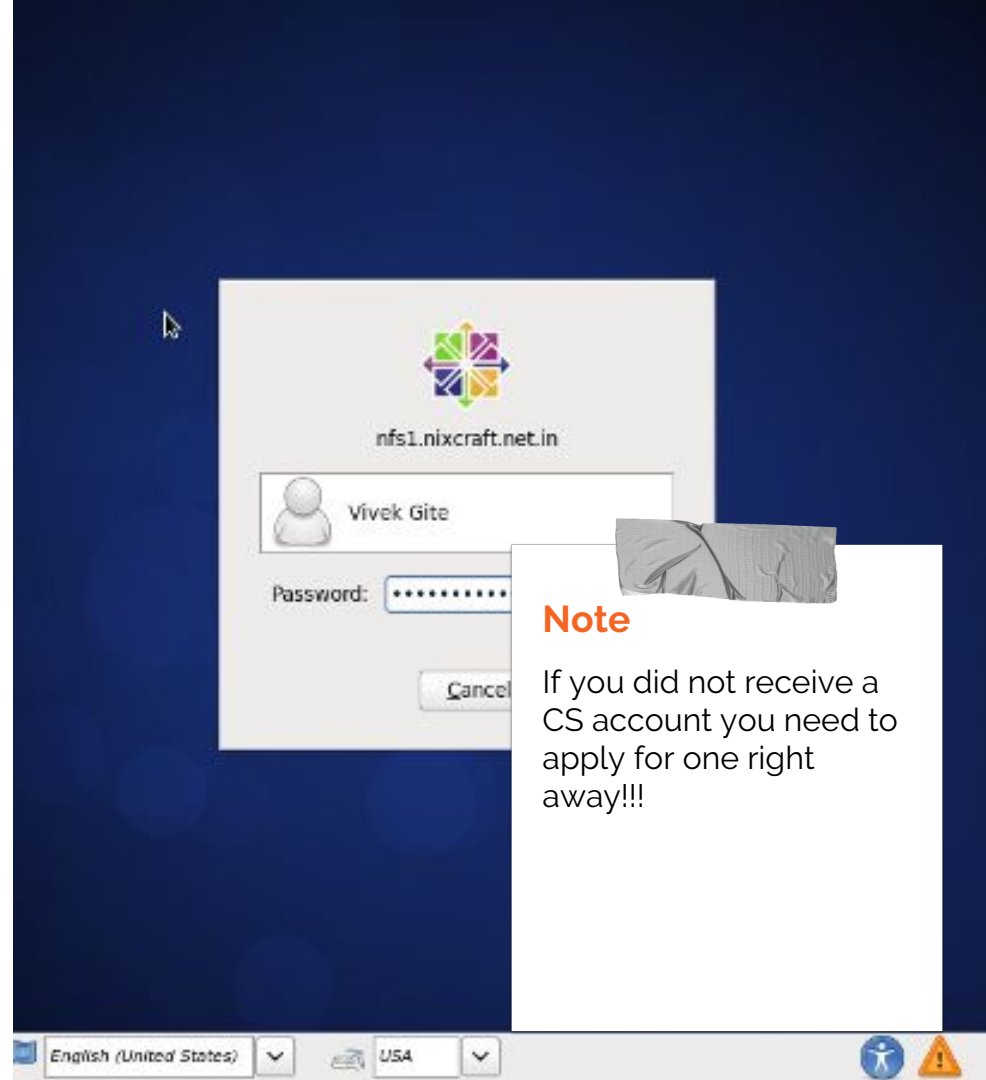
Learn how the lab works!

- Linux vs Windows
- Change your password
- Use the cp command to copy the Exercise 1 .cpp file
- Compile and run the .cpp file
- Edit and save the file with Emacs
- Use the Linux lpr command to print the file

Everyone Sign in Now

Signing in on Windows is straightforward.

On Linux, choose “Other”.



Note

If you did not receive a CS account you need to apply for one right away!!!

Accounts

UNLV

Department of Computer Science

If you don't have an account, you will have to apply for one!

Please fill in the following information, and press the appropriate button:

Account Request

RebelMail email address

First Name

Middle Initial

Last Name

Press this button to submit this request: .

Password Reset

RebelMail Name

Press this button to submit this request: .



Computer



willij6's Home



Trash

Linux



Recycle Bin



Acrobat
Reader DC



Mozilla
Firefox



NetBeans IDE
7.3.1



SSH Secure
File Transf...



SSH Secure
Shell Client

Windows



Browse and run installed applications



Computer



willij6's Home



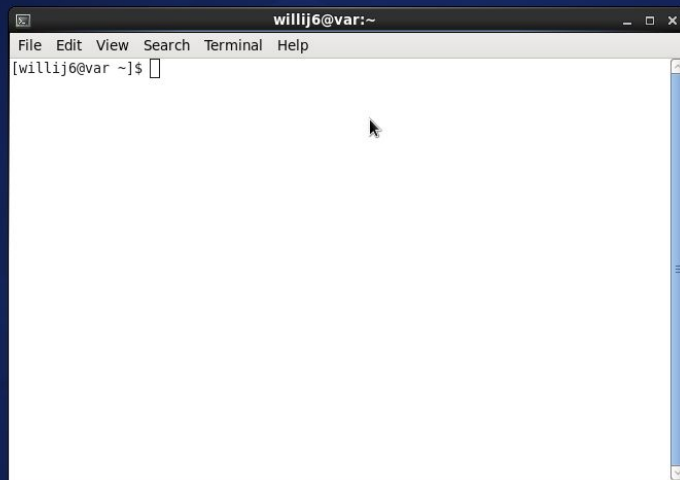
Trash

Linux

Note

You can open a terminal from the Applications menu:

Applications > System Tools > Terminal





Recycle Bin



Acrobat
Reader DC



Mozilla
Firefox



NetBeans IDE
7.3.1



SSH Secure
File Transf...



SSH Secure
Shell Client Location: SshClient (C:\Program Files (x86)\SSH Communications Security\SSH Secure Shell)

Windows



10:41 AM
1/23/2017



Recycle Bin



Acrobat
Reader DC



Mozilla
Firefox



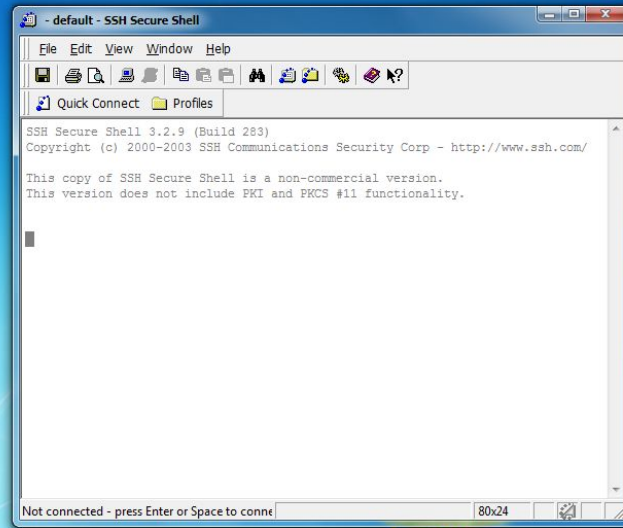
NetBeans IDE
7.3.1



SSH Secure
File Transf...



SSH Secure
Shell Client



10:42 AM
1/23/2017



Recycle Bin



Acrobat
Reader DC



Mozilla
Firefox



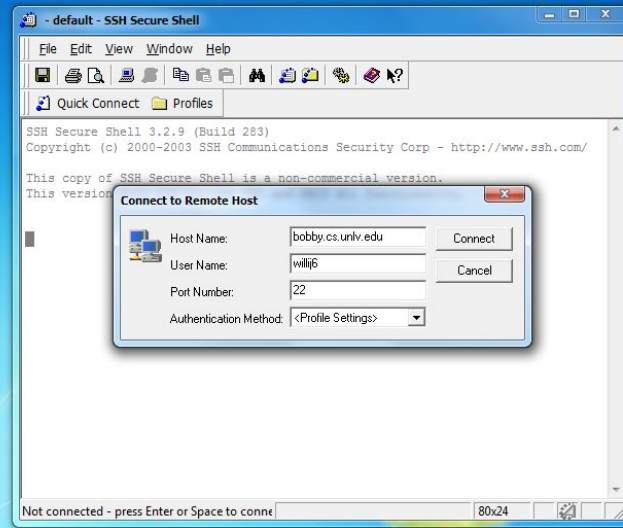
NetBeans IDE
7.3.1



SSH Secure
File Transf...



SSH Secure
Shell Client



10:43 AM
1/23/2017



Recycle Bin



Acrobat
Reader DC



Mozilla
Firefox



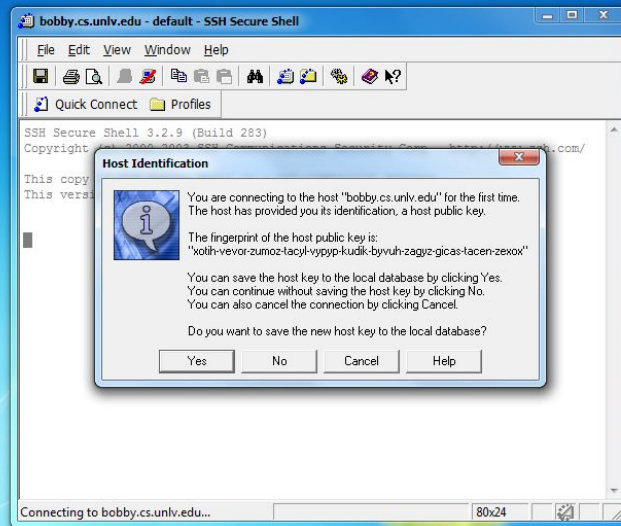
NetBeans IDE
7.3.1



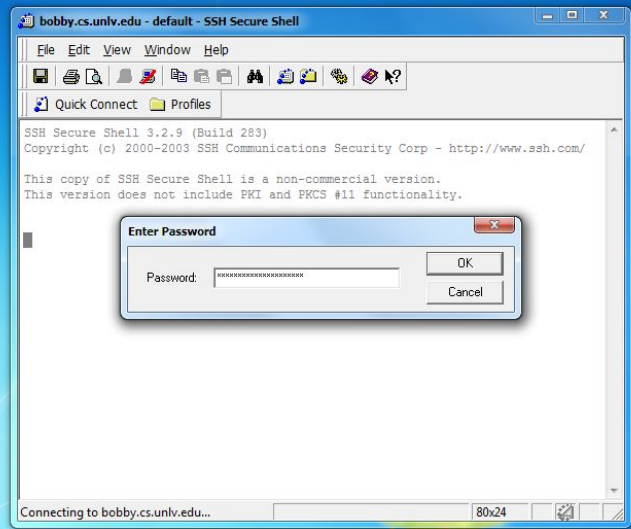
SSH Secure
File Transf...



SSH Secure
Shell Client



10:43 AM
1/23/2017



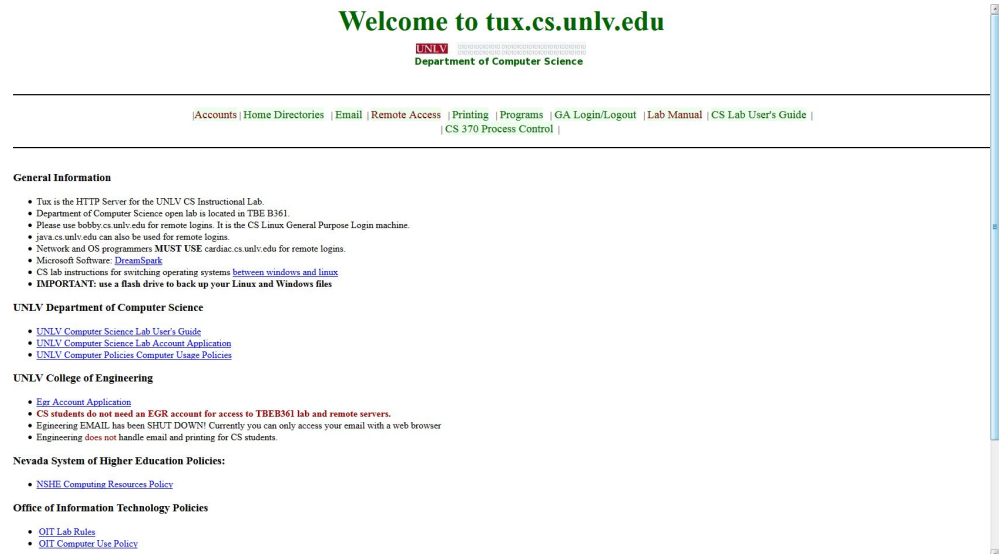


Tux Website (TBE B361 - Computer Lab Website)

This website contains all the information you need for this lab (and future labs!)
Refer to it often for Linux commands, & the lab manual.

URL: <http://tux.cs.unlv.edu/>

Or just Google “UNLV tux”



The screenshot shows the homepage of the Tux website. At the top, it says "Welcome to tux.cs.unlv.edu" in green. Below that is the UNLV logo and "Department of Computer Science". A horizontal navigation bar contains links: /Accounts | Home Directories | Email | Remote Access | Printing | Programs | GA Login/Logout | Lab Manual | CS Lab User's Guide | CS 370 Process Control |. The main content area is titled "General Information" and lists several bullet points about the lab's services and policies. Below this is a section for "UNLV Department of Computer Science" with links to user guides and policies. Another section for "UNLV College of Engineering" lists links for EGR account applications and email status. At the bottom, there are sections for "Nevada System of Higher Education Policies" and "Office of Information Technology Policies" with links to specific policies.

UNLV
Department of Computer Science

[/Accounts](#) | [Home Directories](#) | [Email](#) | [Remote Access](#) | [Printing](#) | [Programs](#) | [GA Login/Logout](#) | [Lab Manual](#) | [CS Lab User's Guide](#) | [CS 370 Process Control](#) |

General Information

- Tux is the HTTP Server for the UNLV CS Instructional Lab.
- Department of Computer Science open lab is located in TBE B361.
- Please use bobby.cs.unlv.edu for remote logins. It is the CS Linux General Purpose Login machine.
- java.cs.unlv.edu can also be used for remote logins.
- Network and OS programmers MUST USE cardiac.cs.unlv.edu for remote logins.
- Microsoft Software: [DreamSpark](#)
- CS lab instructions for switching operating systems [between windows and linux](#)
- IMPORTANT: use a flash drive to back up your Linux and Windows files

UNLV Department of Computer Science

- [UNLV Computer Science Lab User's Guide](#)
- [UNLV Computer Science Lab Account Application](#)
- [UNLV Computer Policies Computer Usage Policies](#)

UNLV College of Engineering

- [Egr Account Application](#)
- CS students do not need an EGR account for access to TBE B361 lab and remote servers.
- Engineering EMAIL has been SHUT DOWN! Currently you can only access your email with a web browser
- Engineering does not handle email and printing for CS students.

Nevada System of Higher Education Policies:

- [NSHE Computing Resources Policy](#)

Office of Information Technology Policies

- [OIT Lab Rules](#)
- [OIT Computer Use Policy](#)

Changing your password

Instructions are located under the
“Accounts” tab on the Tux website.

LINUX	WINDOWS
<p>***Changing your CS password in Linux***</p> <p>After logging into Linux, open a terminal. At the prompt, enter the command: passwd then press Enter. Once prompted, enter your current CS password and press Enter. After that, you will be asked to enter your new password twice (KEEP IN MIND: As you enter your new password, it will not show any typing occurring on the screen. Your password is still being entered as you type).</p> <p>Make sure your password conforms to the following guidelines.</p> <ul style="list-style-type: none">• Must be at least 8 characters• Must contain an uppercase letter, a lowercase letter, and a number• Cannot be your name, your login name• Cannot contain blanks or dictionary words <p>Note: This will change your CS password for both Windows and Linux.</p>	<p>***Changing your CS password in Windows***</p> <p>After logging into Windows 7 press Ctrl-Alt-Del all at the same time. This will bring up a menu window with the Change Password option. Follow the instructions. NOTE: This will change your CS password for both Windows and Linux.</p> <p>cache: You can set your cache to a small amount; however this does will not matter because the cache for each user is save on each local machine she/he logs into and upon logout the profile gets deleted by the system.</p> <p><i>Note: there are a few users where their profile does not get deleted if this is true for you please follow these steps otherwise your local profile will get full with temp files/cookies/cache then you will have problems login in to your CS account.</i></p> <p>open Internet Explorer go to Tools select Internet Options select Settings Now set the "Amount of disk space to use:" to 1MB. click OK.</p>

Lee Misch
Lecturer
Computer Science Department

Lee Misch's Website

URL: <http://web.cs.unlv.edu/lee/>

Class Links for Spring 2017

IMPORTANT MESSAGES TO CS 135 STUDENTS:

Current CS 135 students must type in the following information to login to this website:


- user name: cs login name
- password: your NSHE #

All C++ programs submitted must compile and run on bobby.cs.unlv.edu using the g++ compiler.

Before submitting programs for evaluation, make sure you test them on bobby.

Please report any problems accessing materials on this website to lee.misch@unlv.edu.

Authentication Required

 A username and password are being requested by <http://web.cs.unlv.edu>. The site says: "CS 135 Materials"

User Name:

Password:

Compiling and Executing a Program

- What are Linux commands?
- What are arguments?
- What kind of commands are there?

The file, `exercise1.cpp` is located in the following directory: `~lee/cs135labs`.

1. Use the following command to copy the file into your account:

```
cp ~lee/cs135labs/exercise1.cpp yourfilename.cpp
```

(press Enter)

(you may choose what you want to call the file, but make sure the name ends with `.cpp`)

2. Use the `more` or `cat` command to look at what is in the file.

Compiling and Executing a Program

- G++ compiler
- Running a compiled program

Compiler - a program that converts instructions into a machine-code or lower-level form so that they can be read and executed by a computer.

3. Compile the program with the command: `g++ yourfilename.cpp`
(press Enter)

4. Execute (run) the program, type: `./a.out` (press Enter)

Editing a Program File with Emacs

- Open the file in emacs
 - Add a comment to the **very top** of the file
5. Open a new terminal window.
 6. Start emacs by typing the command: **emacs yourfilename.cpp**
(press Enter)

A comment is a non-executable statement that provides information about a program to a reader. A comment begins with two forward slashes (`//`). The remainder of the line will be ignored by the compiler (g++).

7. Place a comment at the **start of the program file**. The comment should contain your name, lecture and lab section #s, and the exercise #.
8. Save your changes (Ctrl-x, Ctrl-s).

Editing a Program File with Emacs

- Compile and run your program again
- Print it out using the lpr command

9. Move back to the other terminal window and try to compile the program.

10. If it does not compile, read the error message(s) and go back to the terminal window with emacs.

Make the appropriate changes and save. Continue this process until the program compiles.

11. Run your program to confirm that it still works.

12. Print a copy of your program file to hand in to your lab instructor. If in TBE

B361, the command: **lpr yourfilename.cpp** will send the print job to ponderosa

(the student printer). Do **NOT** issue this command if working from home. It will not send the file to your local printer.

13. When you have finished editing your file, exit emacs with (Ctrl-x, Ctrl-c).



You are **Done!**
(Don't Forget to Logout).

You can leave or you can familiarize
yourself with the terminal, emacs, and
the tux website.