Getting Started

Instructor: Andy Abreu

Grade Distribution

- Homeworks 20% (Usually one hw per week, 2% each)

- Quizzes 10% (Usually one quiz per week, 1% each)

- Submit all homework, questions, or concerns to the following email address: andy.abreu.qc@gmail.com

- Lab website:

  - http://venus.cs.qc.edu/~aabreu/cs111/

- Everything will be on the website

Homework Submission Rules

- Subject headline: Last Name_First Name_CS111_HW#
- All homework should be submitted in a organized and well-formatted fashion, along with reasonable font-size.
- We will talk more about formatting programs later, but it basically means following indentation rules when coding.
- Submit as attachment

All homework should be sent to:
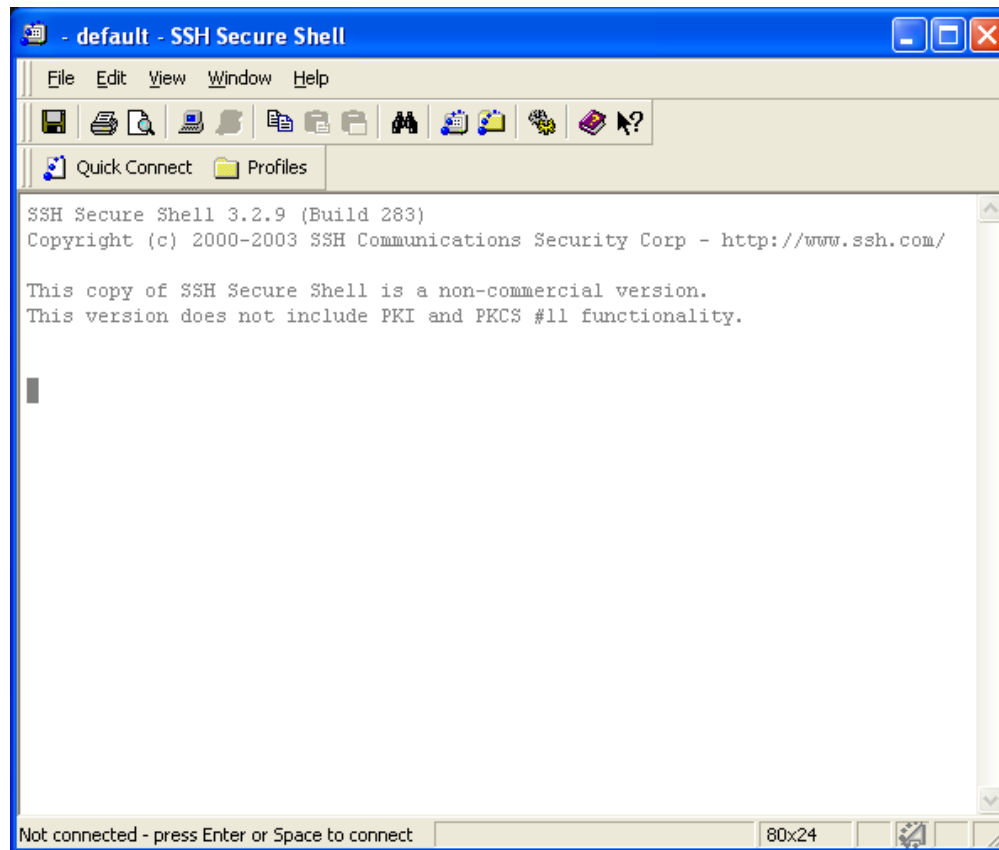
andy.abreu.qc@gmail.com

- No exceptions.

Log on to the machine

- Username:
  - First 2 letters of last name followed by
  - First 2 letters of first name followed by
  - Last 4 digits of CUNYFirst ID
    - (e.g.) aban5678
- Password:
  - 8 digits of CUNYFirst ID
  - (e.g.) 12345678

SSH

- In this course, we will connect to a server called venus using the SSH client.

Download Sites
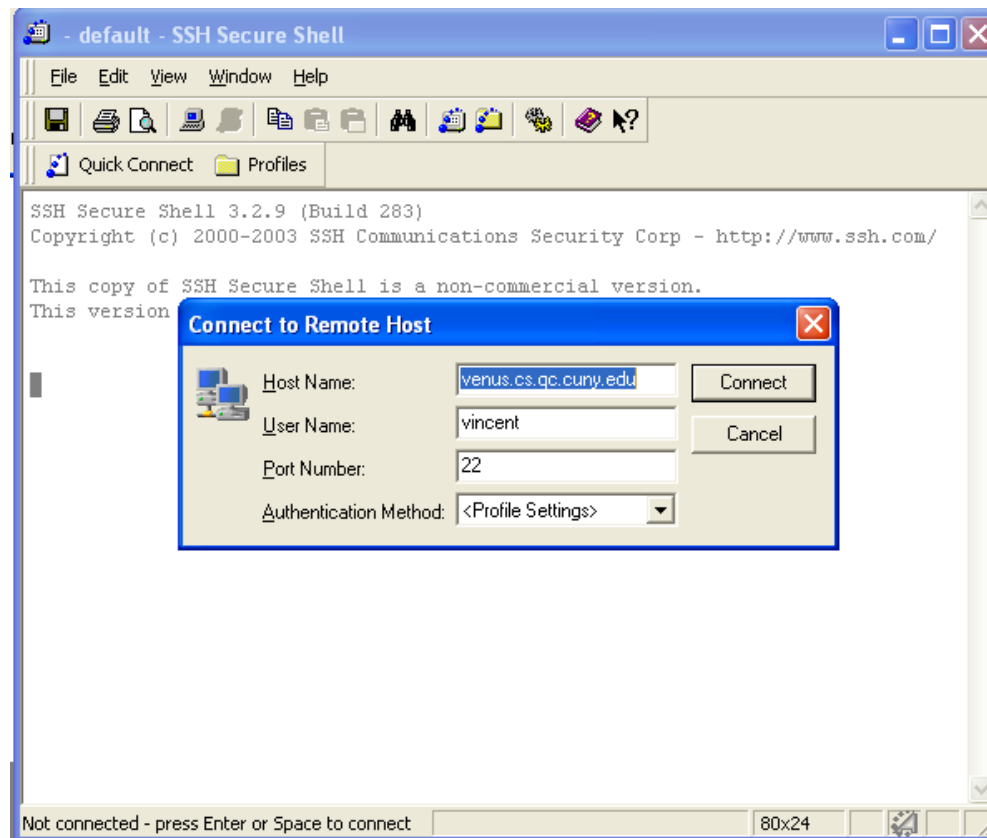
For window users:

- https://shareware.unc.edu/
- http://www.ohlone.edu/org/webcenter/sftptutorial/windows sftp-downloadinstall.html

For mac users:

- Use the Terminal Program and command

    ssh your_login@venus.cs.qc.cuny.edu

- To login, your_login should be your username

Login

- Click Quick Connect
- This should show up

Login info

- Hostname: venus.cs.qc.cuny.edu
- Username:
  - First 2 letters of last name followed by
  - First 2 letters of first name followed by
  - Last 4 digits of CUNYFirst ID
    - (e.g.) aban5678
- Password:
  - 8 digits of CUNYFirst ID
  - (e.g.) 12345678

Linux

- Once you are connected, you will be in the Linux world. One of the reasons why the school uses Linux is because of
  - security → minimum services mean fewer vulnerability
- In order to survive, you will have to know some basic Linux commands. Like all OS, it has a file system to organize and manage files.
- Directory Management
  - Create directory
    - mkdir <name_of_directory>
    - (e.g.) mkdir cs111
  - Delete directory
    - rmdir <name_of_directory>
    - (e.g.) rmdir cs111
  - Change directory
    - cd <name_of_directory>
    - (e.g.) cd cs111

Directory Management (cont.)

- Go up one directory
  - cd ..
- View current working directory
  - pwd
- Jump back to home
  - cd

File Management

- Listing of your files and directories
  - Simple list
    - ls
  - Detailed list
    - ls –l
- Copying file
  - cp <old_filename> <new_filename>
  - cp one.txt one_copy.txt
  - cp one.txt ../
- Moving file (Useful technique to replace old file with new file)
  - mv <old_filename> <new_filename>
  - mv one.txt two.txt
  - mv one.txt cs111/one.txt
- Deleting file
  - rm <filename>
  - rm one.txt

Programs

- Editor:

  - vi

  - pico

- Compilers:

  - g++

Homework (No submission is necessary)

1. Download SSH and install it on your home machine.

2. Try logging in to venus at home.

3. Memorize all the commands (that appears on this slide) necessary to work around the Linux environment.