Getting Started

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Grade Distribution

- Lab Attendance is not mandatory except for quizzes.
- Homework 10 pts (Usually one hw per week, 1% each)
- Quizzes 20 pts(Usually one quiz per week, 2% each)
- Submit all homework on Blackboard.
- Submit questions, or concerns to: kmahavadi@qc.cuny.edu
- Lab website:
- http://venus.cs.qc.edu/~krishna/cs111/
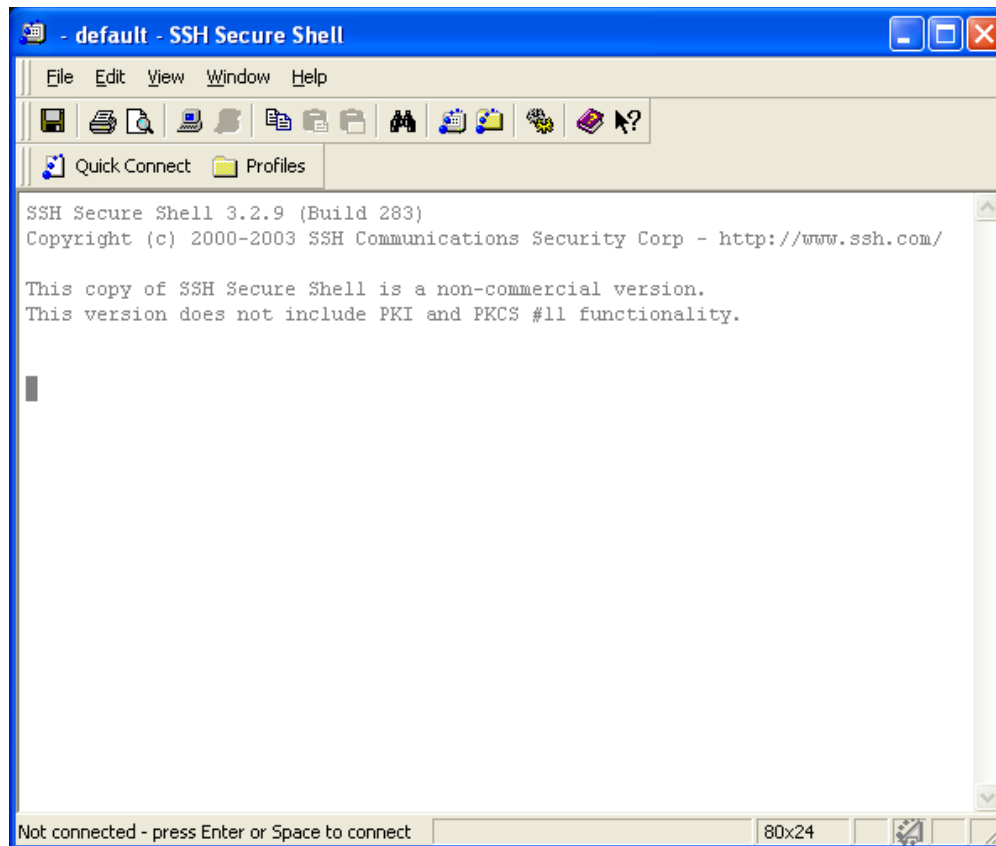- Everything will be on the website

Homework Submission Rules

- Submit your homework on Blackboard
- All homework should be organized and formatted, which basically means following indentation rules when coding
- All programs should be compiled and debugged
- Only programs that compile should be submitted
- Programs that don't compile will get a score of 0
- You will have 1 attempt to submit homework.

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.) abcd5678
- 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
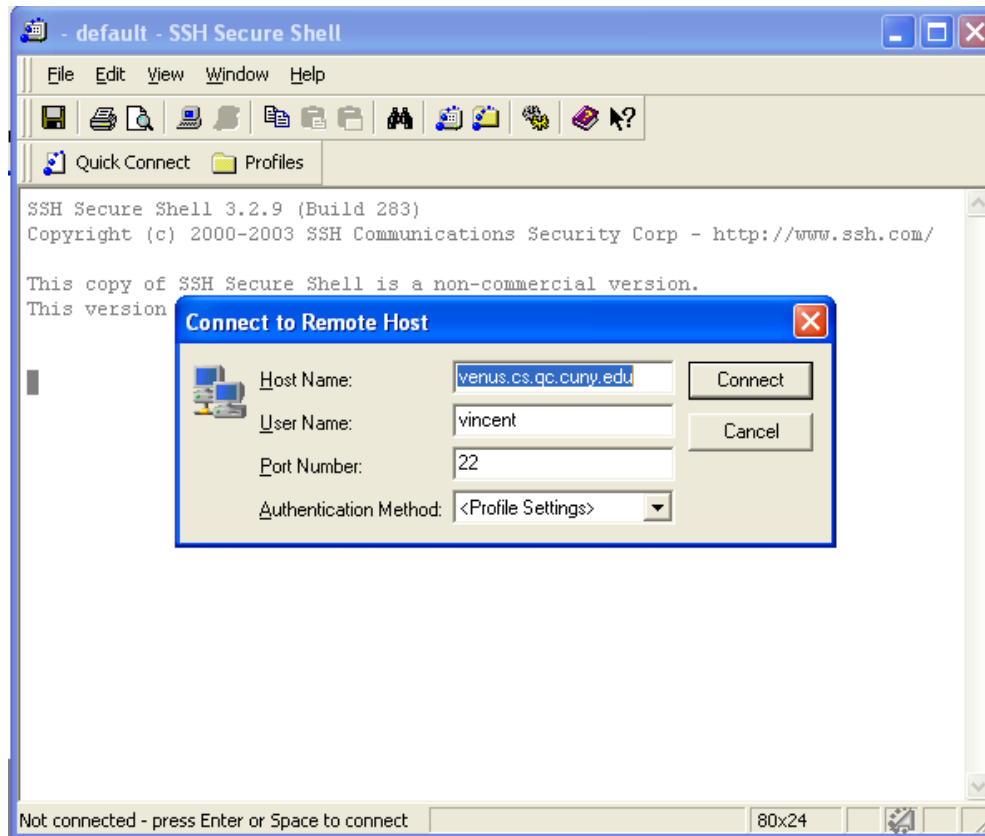
For windows users:

- 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.) abcd5678
- 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 less vulnerability
- In order to function, 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>
  - *Example:* mkdir cs111
- Delete directory
  - rmdir <name_of_directory>
  - *Example:* rmdir cs111
- Change directory
  - cd <name_of_directory>
  - *Example:* 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 test.txt edit.text

    - cp test.txt ../

File Management (cont.)

- Moving file (Useful technique to replace old file with new file)

    - mv <old_filename> <new_filename>

    - mv test.txt edit.txt

    - mv print.cpp cs111/hello.txt

- Deleting file

    - rm <filename>

    - rm print1.cpp

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 appear on the above four slides) necessary to work around the Linux environment.