LAB 1: LINUX INTRO

CSCE1030

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Lab 1: What it is about?

Practicing Linux commands on a remote computer (CSE machine)

Q: How many people have experience with coding?

Options

The lab is due on Friday by 11.59pm

1. WORK BY YOURSELF: This lab instructions are available on Canvas. If you feel comfortable with this assignment, you can do it by yourself. Ask me to check it in the very end before you submit it.
2. WORK WITH ME: Follow the steps I describe on the slides.

Software

PuTTY – to access the remote computer (CSE machine) and to perform commands on it.

WinSCP – to transfer files between remote computer and your computer

What Do You Need to Submit?

Three files:

1. musings
2. sortedIntegers
3. typescript

Step 1: Accessing another computer remotely

1. Use PuTTY to perform operations (“to give instructions what to do”) on a remote computer. We will need it in the beginning of the class and throughout.

- Click on PuTTY;
- For Host Name type one of the followings:

cse01.cse.unt.edu

cse02.cse.unt.edu

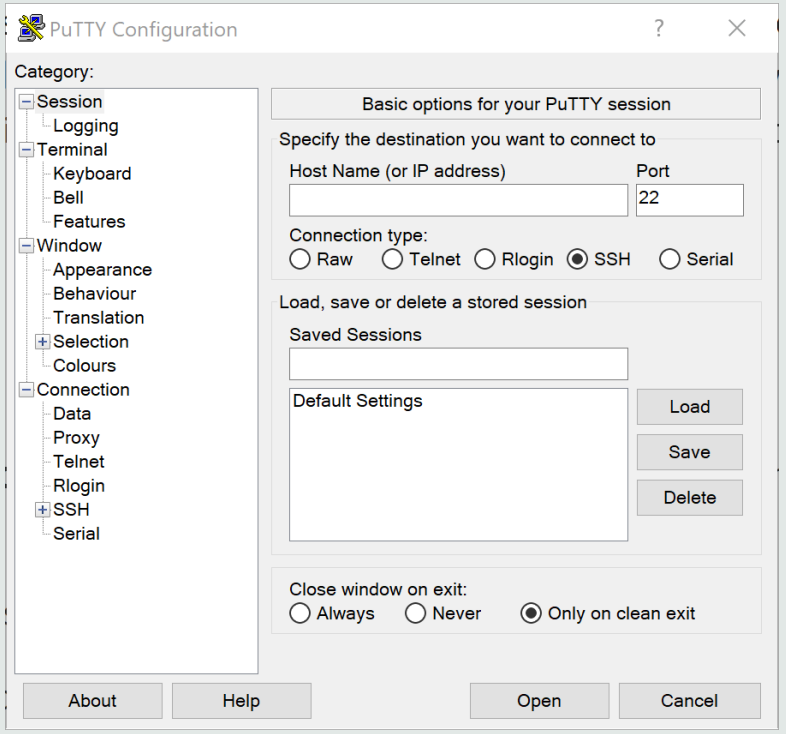
cse03.cse.unt.edu

cse04.cse.unt.edu

cse05.cse.unt.edu

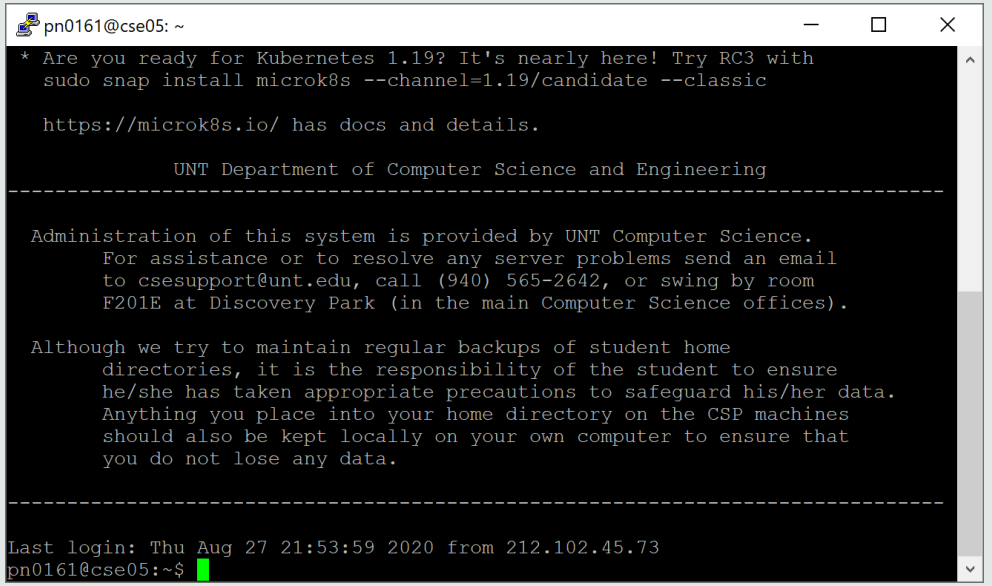
cse06.cse.unt.edu

- Type in your EUID as login and your password



Step 2: Explore Linux!

1. Where am I?
   Type: **pwd**
   (print working directory)
2. What do I have here? Type: **ls**
   (list files and directories)
3. How do I go to a different folder(directory)?
   Type: **cd** (+path to directory)



Step 3: Try to create and to modify files

Type **nano**

- Create a file (CTRL+0)
- Save a file with saving it or not (CTRL+X)
- Crate and Modify a file: **cat >> list1**
  (to exit from typing mode (CTRL+D))
  Sort a file: **sort <list1 >sortedList1**
  ls
  more sortedList1
- **sort -g <integers >sortedList1**

Step 3: Compiling & Running C++ code

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cd

cd Lab01
ls

cd programs
g++ 01-08.cpp
will give us an executable file a.out

ls – lt
./a.out
pm a.out

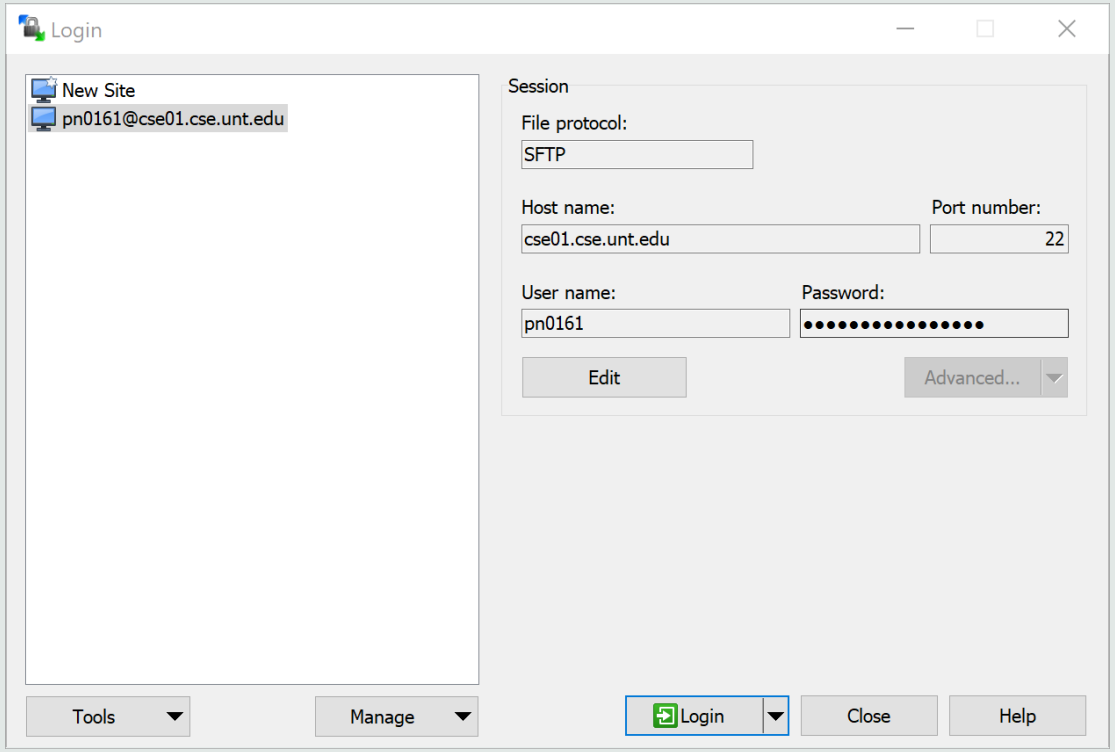
Step 4: Searching for patterns

(typescript)

```
cd

cd Lab01

cd programs

script

grep number *.cpp

grep Number *.cpp

exit
```

Last Step: Getting the Files to Submit

1. Open **WinSCP**
2. Use the same host name you used in Putty



Last Step: Getting the Files to Submit

1. Open **WinSCP**
2. Use the same host name you used in Putty
3. Copy files *musings*, *sortedIntegers*, *typescript* on your computer
4. Submit these files on Canvas