CPSC 254 Lab 1 – Install Ubuntu

- The laboratory exercises of this course include installing operating systems and other activities which may damage or destroy data on your computer. Students are strongly recommended to make regular backups of their data.
- If you choose to utilize the lab computer, then bring a USB Thumb drive to backup your work each week.
- Students who have a personal laptop may bring it to class each session.
- Installing Virtual Box will provide an environment that allows installing additional OS's without affecting the normal operation of the computer. Please note that virtual machines are somewhat slower than normal installations, but if properly setup, will operate well enough for our purposes.
- Please have a USB memory stick that is at least 4 GB in size.
- All assignments and labs must be uploaded on Canvas.
- Name all files that you send to me using this format:
- All attachments must be named properly so that I can identify them. Please don't name a file "lab1", "assignment1" or "Screenshot.png", etc. File names must clearly indicate sender name, date, and purpose. They will follow this naming convention. CPSC 254 Initial last name assignment date
- Example:
- CPSC 254 lastname assignment1 Jan 24.docx
- In the beginning of the assignment I need the following information
    - Name:
    - CWID:

Lab Task / Project

Install a hypervisor, preferably Virtual Box

1. Download Virtual Box from https://www.virtualbox.org/
2. Install Virtual Box
3. Download and install Ubuntu from https://ubuntu.com/download/desktop

Reference Prof David Heckathorn

Lab Assignment 1

1. Where is your home directory?

2. Try the command `man man`. (Include a screen shot of this in the document)

3. Find a suitable text editor, such as `vi`, and write some text in a file. Save the file in your home directory. Don't know how to use `vi`? Read it's manual page, `man vi`. (Include a screen shot of this in the document)

4. Find a way to print the date to the console. (Include a screen shot of this in the document)

Write down the command

5. Find a way to print this month's calendar to the console. (Include a screen shot of this in the document)

Write down the command

6. Is there a way to create reminders?

What is it?

7. Is there a C or C++ compiler? If so, write a hello world program in your home directory. (Include a screen shot of the output in the document)

Write down the steps with the command

8. Is there a debugger? If so, use the debugger to step through your hello world program.

How did you invoke the debugger?

9. Is there a way to show all the processes? Can you see who owns the processes? (Include a screen shot of the output in the document)

Write down the command

10. Is the system running any daemons? What daemons are running? Is one of the daemons sshd?

Answer

11. Can you add a user to your system?

Write down the command

12. How do you become the super user, aka root?

Write down the command

13. There's a command called `finger`. What does it do?

14. Let's say two different users are logged into the same computer, can they talk or instant message one another?

Answer

Reference Prof David Heckathorn

15. Is there a program named `telnet`? What does it do?

Answer

16. What happens when you run telnet smtp.gmail.com 25?

Answer

Reference Prof David Heckathorn