

INFOTC 3850: Computer System Administration
Spring 2019
Laboratory # 1
Linux Basic Commands and VIM text editor
Due February 7, Hrs. 11:59 pm

I. Objectives

- 1) Examine the shell aspects and history mechanism.
- 2) Understand the execution of Linux basic commands.
- 3) Understand the usage of Linux VIM text editor

II. Material Required

CentOS Linux terminal

III. Activity

- 1) Download and install VMware Workstation or Fusion from
<http://e5.onthefhub.com/d.ashx?s=d1l8jhxjyz>
- 2) Download and install CentOS. It is available at
<https://www.centos.org/download/>

IV. Review Questions

Answer the following questions:

1. What is the difference between GUI and CLI?
2. List three types of shells
3. What is the command to list all the commands you have previously typed?
4. How can we quickly access the last command typed?
5. What are the three modes of the Vim editor?

List the commands to answer the questions (execute them in your terminal and post the answers in your report)

6. Display your current directory.
7. Change to the `/etc` directory.
8. Change to your home directory using only three keystrokes.
9. Change to the `/boot/grub` directory using only eleven or less keystrokes (how would you do it?)

10. Go to the parent directory of the current directory.
11. In which directory are you located? (from now this will be your current directory, you shouldn't change from this directory. You can use absolute or relative paths)
12. List a 'long listing' of the `/etc` directory.
13. List all the files (including hidden files) in your home directory.
14. List the files (including hidden files) in `/boot` in a human readable format and sorted by size.
15. Create a directory `newdir` in your home directory.
16. Using `mkdir` only one time (in your home directory) create the directories `dir1/dir2/dir3` (`dir3` is a subdirectory of `dir2`, and `dir2` is a subdirectory of `dir1`)
17. Copy the `dir1` directory and its content to `newdir`
18. Using the `touch` command only one time, create the files `file1.txt`, `file2.txt` and `file3.txt` inside `newdir`
19. Use the `echo` command to create a `weekend.txt` file inside `newdir` with *Saturday* and *Sunday* words, each word in one line.
20. Move the `weekend.txt` from `newdir` to your home directory.
21. Using the `vim` editor, add the weekdays and your pawprint into the `weekend.txt` file (the file should have 8 lines: Monday, Tuesday,...,Sunday, pawprint)
22. Rename the `weekend.txt` file name to `week.txt`
23. Display the last 5 lines of the `week.txt` file with `tail` command
24. Take a screenshot of the output (where your pawprint is visible) and paste it to your homework report
25. Remove the `newdir` and `dir1` directories using `rm` command only one time