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CSC 2510: DevOps

Lab 02 – CLI II

General Instructions

Use your knowledge of Unix, previous course material, and reference material to fill out each question on this lab. Type the answer to your questions in **red**.

Submission Instructions

To submit, **change the name in the header** and save this document as a PDF. Attach your PDF document to the iLearn dropbox.

Lab Questions

1. (2) Briefly, what information does the `--help` option display for the tar utility? How would you display this information one screen at a time? It shows the possible commands and usage of a specific command (e.g. chmod --help) shows them. --help|less will show one screen at a time about a specific command (e.g. chmod --help|less).
2. (2) How would you display a list of utilities that compress files? apropos compress
3. (2) How would you find out which Linux utilities create and work with archive files? I would type apropos archive to retrieve a list of programs that create and work with archiving files.
4. (2) What is the `man` utility? How would you use `man`? the man utility shows the usage and explanation of a command (e.g. man test)
5. (5) Is each of the following an absolute pathname, a relative pathname, or a simple filename?
    a. `Milk_co simple file name`
    b. `correspond/business/milk_co` relative pathname
    c. `/home/max absolute pathname`
    d. `/home/max/literature/promo absolute pathname`
    e. `..relative pathname`
6. (3) What do the following do?
    - `chmod take away or give permissions (change file mode bits)`
    - `echo prints exactly what you type after the command on the screen (display a line of text)`
    - `test check file types and compare values`
7. (2) What is the purpose of `sudo`? Why can `sudo` be risky to use? The purpose of sudo is to elevate permission to super user which is executing command as another user. It is

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risky, because it does not have any restraints which may cause the system to have error(s).

8. (2) What commands can you use to view currently running processes? htop or top
9. (5) Try giving these two commands:
    i. $ `echo cat this prints the word cat on the next line`
    ii. $ `cat echo tries to print out content in a file called echo but there is no file with such name`
    iii. Explain the differences between the output of each command. so echo cat just simply prints out the word followed by the echo command. Cat echo command looks for the file called echo to print out the contents inside the echo file.