

LAB - 03 PRELAB

All screenshots, must have your username at command prompt and screenshot should be legible. Snipping tool is advised for the screen shots, no full page screenshot.			
For LAB REPORT, The screenshots should be pasted in Word Document in order of the lab questions and submitted in Blackboard as a <u>single document</u> only. Plagiarism is awarded zero.			
Refer to course details posted in BB for more info on Lab report and screenshots.			
Do NOT login as root or user with UID=0 to do the lab, use sudo ONLY when required.			
Do not use <u>changeme</u> username to do the lab, the lab(s) MUST be done using your own username as specified in PART-B of LAB-1,00			
Strictly NO screenshots with full screen of terminal or desktop or partly taken screenshots			
It is highly required to following naming conventions and instructions and it would affect evaluation.			

PRE-LAB ACTIVITY: PART-A,B,C (need to be completed before start of LAB-03)

In toronto VM

PART-A: UNIX/LINUX FILE HIERARCHY STANDARD(FHS)

1. Find purpose of the directories by getting the description of the file system hierarchy using **man hier.** Identify the directory for the given descriptions below:

the directory for the given descriptions below.					
i)	provides information about running processes and the kernel	ii)	contains static files for boot loader and holds files required to boot only.		
iii)	users home directory	iv)	log files		
v)	home directory of root	vi)	configuration files		
vii)	temporary mount systems	viii)	device files		
ix)	system administration binary files not required for boot	x)	when new user created files are copied to the user home directory from here		
xi)	object libraries, dynamic libraries including some execurables	xii)	directory which should hold those shared libraries that are necessary to boot the system and to run the commands in the root filesystem		
xiii)	manual pages	xiv)	mailboxess		

Enter the answers for the above in your lab report based on the numbers given as **i)** type the answer, **ii)** type ... likewise upto xiv).

PART-B: FILES MANAGEMENT-I

- 2. Type **Is -I** to find the files on long list format, and understand the information given. Then try with **Is -Ia**, and what is the difference with **Is -I** and **Is -Ia**
- 3. Type cd and Enter, create directory ccgc
- 4. Change to ccgc and then create the directores ccgc5000, ccgc5001, ccgc5002, ccgc5003, ccgc5004, ccgc5050
- 5. Rename the directory ccgc5050 to ccgc5005
- 6. Type cd and Enter, Create two directories labs and lesson in ccgc5000, ccgc5001, ccgc5002, ccgc5003, ccgc5004, ccgc5005 (try to create the directories being in your home directory)



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- 7. Type **cd** and **Enter**, now you should be in your home directory, create non-empty files as specified below in the respective directories. Each file should have their file name as text. (try to create the directories being in your home directory)
 - a. Create files lab1, lab2, lab3 in ccgc5000/labs, ccgc5001/labs, ccgc5002/labs and ccgc5003/labs
 - b. Create files module1, module2, module4, module5 in ccgc5000/lesson, ccgc5001/lesson, ccgc5002/lesson and ccgc5003/lesson
- 8. Type cd and Enter, create a directory backup and copy directory labs and lesson of ccgc5000 and ccgc5001 with its contents to the backup directory

Type cd and Enter, then take these SCREENSHOTS a) tree ccgc b)tree backup c)ls -IR ccgc d) ls -IR backup

PART-C: FILES MANAGEMENT-II

- 9. Type cd and Enter, Create directory /cloud and in cloud create three directories aws, gcp, azure
- 10. Create files aws1, aws2 in /cloud/aws, gcp1, gcp2 in /cloud/gcp.
 - SCREENSHOTS (a) tree /cloud b) Is -IR /cloud
- 11. Delete the directory **/cloud/aws** using **rmdir** command. if **rmdir** does not delete, ascertain the reason why ? and delete it using the right command
- 12. Delete the directory /cloud/azure using rmdir command. If it deletes ascertain the reason why?
- 13. Type cd and Enter, then create a file mylab3 using touch command. SCREENSHOT: stat mylab3; Is -IR /cloud
- 14. Using cat command add the name of the file as text in the file mylab3. SCREENSHOT: stat mylab3
- 15. Using vim command add another line "this is lab3" to mylab3 file. SCREENSHOT: stat mylab3
- 16. Using Is command display various times of the file mylab3 (SCREENSHOT)

PART-D: LINKED FILES (Type **cd** and **Enter** - be in your home directory the following activities)

- 17. Create a softlink named sl-mylab3 for the file mylab3
- 18. Create a hardlink file named hl-mylab3 for the file mylab3
- 19. Create a softlink named **cloudsl** in root for the directory **/cloud**
- 20. Create a hardlink named **cloudhl** in root for the directory **/cloud**

SCREENSHOT: a) Is -li *mylab3* b)Is -li /cloud*

PART-E: SEARCH

- 21. Search the files that start with ccgc using find command starting from your home directory
- 22. Search all the files that starts with lab and module using find starting from your home directory.
- 23. Search all the files whose size is greater than 100MB from root
- 24. Search all files which has your username as owner or files created by your username, starting from root
- 25. Use locate to search file name with module1 (SCREENSHOT history | grep -E 'find | locate')



