

Linux Operating System

Exercise 2

1. Create a file 'lab2.log' in the cdsclab/ex2 directory. Write at least 20 pages of text in the 'lab2.log' using your favorite editor. Display the contents of the 'lab2.log' from the fifth line using the *more* command.
2. Use 'll' and 'more' command to display the /etc directory information. 'll /etc | more -10'
3. Display the contents of the 'lab2.log' file and display the line number. 'less -N lab2.log'
4. Create a file 'lab3.log' in cdsclab/ex2 directory. Display the first 5 lines of 'lab2.log' and 'lab3.log' using the 'head -n 5' command.
5. When new content is added to the 'lab2.log' it is updated automatically and you can view this using 'tail -f' command.
6. To confirm whether gcc is installed use 'which' command.
7. Search for the path to the gcc source code. 'whereis -s gcc'
8. Search for all files beginning with sh in the /etc directory. 'locate /etc/sh'
9. Print all the names ending with .txt or .pdf in the current directory. 'find . \(-name "*.pdf" or -name "*.txt" \)'

10. Print all file names in the current directory that don't end with .txt. `find . ! -name "*.txt"`
11. Print all files whose permissions under the current directory are not 777 and 664. `find . -type f \(! -perm 777 -and ! -perm 644 \)`
12. To find all the 'txt' files in the current directory and display their detailed information. `find . -name "*.php" -exec ls -l {} \;`
13. Create a text file called 'lab3.txt' in the cdsclab/ex2 directory and type the following text '1i2i3i4i5i6i7i8i9'. Convert a single line input to multiple lines of output. `cat lab3.txt | xargs -d i -n 3`
14. Count the number of bytes, lines, and characters of a file, print only numbers, and do not print the file name. `cat lab3.txt | wc -c/l/m`
15. Take out the root line in the /etc/passwd file, and add the color to the keyword. `grep "root" /etc/passwd --color=auto`
16. What command is used on Linux in order to change the owner of a file or directory?
17. Which file contains a list of users on a Linux system?
18. If a directory with "r w x r w x r w x" permissions is copied using the cp command, will the permissions be the same on the new directory?

19. List the file system type. *'df -T'*
20. Display the space occupied by the specified file and display it in a format that is easy to read. *'du -h lab3.txt'*