

LINUX LAB- 1 ASSIGNMENT

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1. Login as guest (password is guest123)

Ans: ->su student

2. Find the present Directory

Ans: ->pwd output : /home/student

3. Write the / directory structure

Ans: ->tree

4. Write a few commands available in /bin and /sbin directory

Ans:

/bin directory:

1. mkdir //makes new directory
2. touch // changes file timestamp
3. rmdir //deletes/removes directory
4. ping //check connection
5. pwd //Shows present working directory

/sbin directory:

1. lsmod //shows status of linux modules
2. modinfo // shows information of linux kernel module eg: version ,release
3. ip //ip settings
4. halt //reboots system
5. route //Shows routing table

5. Find the guest directory

Ans: ->find / -name "directory name"

Output: /home/student

 /var/spool/mail/student

6. Write the permissions of guest directory

Ans: ->dwxr-----

7. Create a new Directory test in guest directory

Ans: ->cd, cd /home/student/guest, mkdir test

8. Write the permissions of test directory

Ans: ->rwxrwxr-x

9. Copy the file /etc/resolv.conf in test directory

Ans: ->cd /etc

 ->cp resolv.conf /home/student/test

10. Rename the test directory to testing

Ans: ->mv test testing

11. Delete the testing directory

Ans: ->rm -R testing

12. Change the permissions of guest directory to 775

Ans: -> chmod 775 "student"

13. Change the permissions of /tmp directory to 700

Ans: ->cd /

->chmod 700 tmp //due to this some graphics are not loaded. Hence we cannot start ubuntu

14. Login as root user

Ans: ->su root

15. Change the permissions of guest directory to 700

Ans: ->cd /home

->chmod 700 "student"

16. The location of kernel files in Unix File System is /boot and by looking at the kernel file, write the kernel version you are using in your system.

Ans: ->uname -v output: 57-Ubuntu SMP

17. Login as guest

Ans: ->su student

18. Change directory to /

Ans: ->cd /

19. List the contents of /home directory

Ans: ->cd home

->ls output: student

20. Find the group to which guest belongs

Ans: ->ls -l output:student

21. Create a file sidbi in the home area of guest (hint: use touch command)

Ans: ->touch sidbi

22. Find the permissions of the file sidbi

Ans: ->ls -l output: rw-r--r--

23. Find the inode number of file sidbi (hint: ls -li)

Ans: ->ls -li output: 29262699

24. Copy the file sidbi to sidbi1

Ans: ->cp sidbi sidbi1

25. Find the inode number of file sidbi1 (hint: ls -li)

Ans: ->ls -li output: 29262700

26. Move the file sidbi to sidbi2

Ans: ->mv sidbi sidbi2

27. Find the inode number of file sidbi2 (hint: ls -li)

Ans: ->ls -li output: 29262699 //inode number remains same as file sidbi

28. Move sidbi2 to sidbi

Ans: ->mv sidbi2 sidbi

29. Login as root

Ans: ->su root

30. Create a new user guest1 with same group as guest (hint: use GUI tool Applications→System Settings→ Users and Groups)[More on this later in the course]

31. Create a new user guest2 with a different group than the group of guest (hint: use GUI tool Applications→System Settings→ Users and Groups)

32. Find, what permissions should the file sidbi have, so that both guest1 and guest2 can write into this file.

Ans: output: rwxrwx-w- //any permission for root and group user can be given. But for others it should be -w-