LINUX LAB- 1

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1. Login as guest (password is guest123)
   sudo -i -u guest-v8peUb

2. Find the present Directory
   pwd

3. Write the / directory structure
   sudo apt-get install tree
   tree

4. Write a few commands available in /bin and /sbin directory
   /bin (pwd ,cat ,echo,cd,dash,dd,df etc...)

   /sbin (traceroute,netconfig,ifconfig,iw,tc,ntfcp,etc...)

5. Find the guest directory
   /tmp/guest-v8peUb

6. Write the permissions of guest directory
   cd tmp

   ls –l

   drwxr-xr-x 2 guest-v8peUb guest-v8peUb 40 Jan 21 23:29 desktop

   drwxr-xr-x 2 guest-v8peUb guest-v8peUb 40 Jan 21 23:29 documents

   drwxr-xr-x 2 guest-v8peUb guest-v8peUb 40 Jan 21 23:29 downloads

   drwxr-xr-x 2 guest-v8peUb guest-v8peUb 40 Jan 21 23:29 exmaples.desktop

   drwxr-xr-x 2 guest-v8peUb guest-v8peUb 40 Jan 21 23:29 music

   drwxr-xr-x 2 guest-v8peUb guest-v8peUb 40 Jan 21 23:29 pictures

   drwxr-xr-x 2 guest-v8peUb guest-v8peUb 40 Jan 21 23:29 public

7. Create a new Directory test in guest directory.
   mkdir test

8. Write the permissions of test directory
   drwxr-xr-x 2

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

10. Rename the test directory to testing
    mv test testing

11. Delete the testing directory
    rm testing

12. Change the permissions of guest directory to 775
    cd /
    cd tmp
    chmod 775 guest-v8peUb

13. Change the permissions of /tmp directory to 700
    cd ..
    chmod 700 tmp

14. Login as root user
    sudo passwd root@123$ (when first time creating password)
    su root

15. Change the permissions of guest directory to 700
    chmod 700 guest-nqH2DB

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.
    uname -v
    #57-Ubuntu SMP Tue Jul 15 03:51:08 UTC 2014

17. Login as guest
    sudo -i -u guest-v8peUb

18. Change directory to /
    cd /

19. List the contents of /home directory
    ls

    ls -a (if something is hidden)

20. Find the group to which guest belongs
    id guest-v8peUb

uid=116(guest-v8peUb) gid=125(guest-v8peUb) groups=125(guest-v8peUb)

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

22. Find the permissions of the file sidbi
    ls -l
    -rw-r--r-- 1 guest-v8peUb guest-v8peUb 0 Jan 22 01:41 sibdi

23. Find the inode number of file sidbi (hint: ls –li)
    166235

24. Copy the file sidbi to sidbi1
    cp sidbi sidbi1

25. Find the inode number of file sidbi1 (hint: ls –li)
    164715

26. Move the file sidbi to sidbi2
    mv sidbi sidbi2

27. Find the inode number of file sidbi2 (hint: ls –li)
    166235

28. Move sidbi2 to sidbi
    mv sidbi2 sidbi

29. Login as root
    su root

30. Find, what permissions should the file sidbi have, so that both guest1 and guest2 can write into this file.
    777

31. 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]

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

    Home work : Linux installation step by step . Prefer manual installation to get deep understanding.

Guest login is presumed. Students may work in their individual logins.
Step 29 to 32 are based on your student access rights policy. Otherwise it may be followed on your personal laptops.