Lab Assignment 1

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16/01/2015

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Note: Some command are required root permissions, so test command as root user and assuming that every time it start from home drectory. All directories name and locations are as per Ubuntu that installed on my system.

Q1. Login as guest (password is guest123)

- Add user name ‘guest’ if it is not there.

```
useradd guest
```

- Then set password for ‘guest’.

```
passwd guest
```

- Then Login as guest.

```
su guest
```

Q2. Find the present Directory

```
pwd
```

Q3. Write the / directory structure

- First go to ‘/’ directory and then

```
tree
```

Q4. Write a few commands available in /bin and /sbin directory

- In ‘/bin’ : echo, pwd, cat.
- In ‘/sbin’ : traceroute, ifconfig, netconfig

Q5. Find the guest directory

```
cd
cd ..
cd ..
cd tmp
cd guest-VkcNOO
```

Q6. Write the permissions of guest directory

```
cd
cd ..
cd ..
ls -l /tmp/guest-VkcNOO
```

Q7. Create a new Directory test in guest directory

```
cd
cd ..
cd ..
mkdir /tmp/guest-VkcNOO/test
```

Q8. Write the permissions of test directory

```
cd
cd ..
cd ..
ls -l /tmp/guest-VkcNOO/test
```

Q9. Copy the file /etc/resolv.conf in test directory

```
cd
cd ..
cd ..
cp etc/resolv.conf tmp/guest-VkcNOO/test/
```

Q10. Rename the test directory to testing

```
cd
cd ..
cd ..
mv tmp/guest-VkcNOO/test/ tmp/guest-VkcNOO/testing/
```

Q11. Delete the testing directory

```
cd
cd ..
cd ..
rm -R tmp/guest-VkcNOO/testing/
```

Q12. Change the permissions of guest directory to 775

```
cd
cd ..
cd ..
chmod -R 775 tmp/guest-VkcNOO/
```

Q13. Change the permissions of /tmp directory to 700

```
cd
cd ..
cd ..
chmod -R 775 tmp/
```

Q14. Login as root user

```
su root
```

Q15. Change the permissions of guest directory to 700

```
cd
cd ..
cd ..
chmod -R 700 tmp/guest-VkcNOO/
```

Q16. 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.

- 3.8.0-30-generic

Q17. Login as guest

```
su guest
```

Q18. Change directory to /

```
cd
cd ..
cd ..
```

Q19. List the contents of /home directory

```
cd
cd ..
cd ..
ls /home/
```

Q20. Find the group to which guest belongs

```
groups guest
```

Q21. Create a file sidbi in the home area of guest (hint: use touch command)

```
cd
cd ..
cd ..
cd tmp
cd guest-VkcNOO
touch sidbi
```

Q22. Find the permissions of the file sidbi

```
cd
cd ..
cd ..
ls -l /tmp/guest-VkcNOO/sidbi
```

Q23. Find the inode number of file sidbi (hint: ls –li)

```
cd
cd ..
cd ..
ls -li /tmp/guest-VkcNOO/sidbi
```

Q24. Copy the file sidbi to sidbi1

```
cd
cd ..
cd ..
cp tmp/guest-VkcNOO/sidbi tmp/guest-VkcNOO/sidbi1
```

Q25. Find the inode number of file sidbi1 (hint: ls –li)

```
cd
cd ..
cd ..
ls -li /tmp/guest-VkcNOO/sidbi1
```

Q26. Move the file sidbi to sidbi2

```
cd
cd ..
cd ..
mv tmp/guest-VkcNOO/sidbi tmp/guest-VkcNOO/sidbi2
```

Q27. Find the inode number of file sidbi2 (hint: ls –li)

```
cd
cd ..
cd ..
ls -li /tmp/guest-VkcNOO/sidbi2
```

Q28. Move sidbi2 to sidbi

```
cd
cd ..
cd ..
mv tmp/guest-VkcNOO/sidbi2 tmp/guest-VkcNOO/sidbi
```

Q29. Login as root

```
su root
```

Q30. 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]

Q31. Create a new user guest2 with a different group than the group of guest (hint: use GUI tool Applications→System Settings→ Users and Groups)

Q32. Find, what permissions should the file sidbi have, so that both guest1 and guest2 can write into this file.

```
766
```