

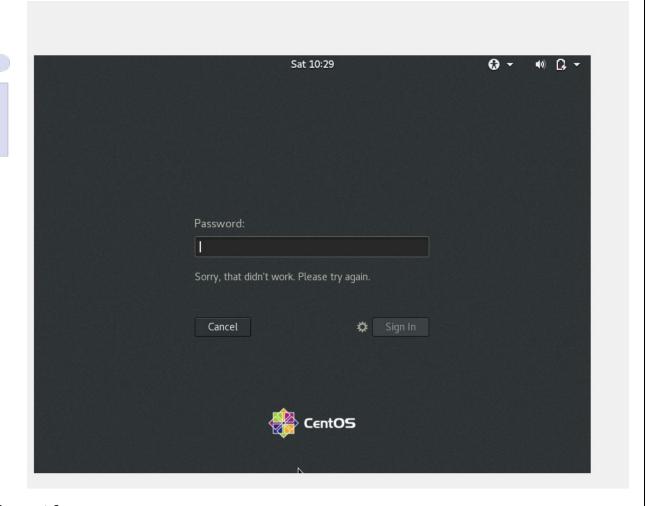
Basic Linux Commands Assignments

Assignment-1

Connect and disconnect with login Access

- What happens when you login a non-existent users or username?
 - o Provide Screenshot and What you understand, explain in short brief?

<u>Answer</u>: When we try to login using a non-existent username, it accepts that and proceeds to the password screen. But once you enter the password, we get the Error as "Sorry that didn't work. Please try again". From this we understand, on entering a username it doesn't validate whether the user exist or not, it only validates after entering password.



Assignment-2

Password changing

- Login into your account and then change password?
 - Change your password into *IneuROn#42* and hit the Enter key
 - Explain what happen and give screenshot?

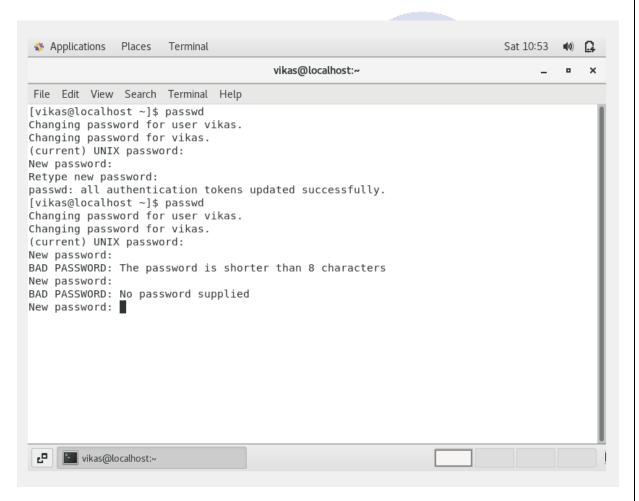
<u>Answer</u>: Once you give keyword passwd, it asks us to enter the current password. On entering the current password it asks to enter the new password and then confirm it again. Once the two passwords (new and confirm) match, it gives the comment saying all authentication tokens updated successfully.

- Try again to change password but use like password 1234 or abcd
 - Explain what happen and give screenshot?

<u>Answer</u>: When you try to change the password as 1234, it prompts the error saying "BAD PASSWORD: The password is shorter than 8 charaters"

- Try again to change password but now don't use any password just hit Enter key
 - Explain what happen and give screenshot?

<u>Answer</u>: When you press enter without entering anything, it prompts the msg saying "BAD PASSWORD: No password supplied"



Assignment-3

Working with Directories (All screenshots attached below)

- Enter the command cd / and then is and then hit Enter key
 - o Take screenshot and explain what output we got?

<u>Answer</u>: Once you give cd / , it goes into the root directory and once you give ls , all the folders present in the root directory is displayed.

```
[vikas@localhost ~]$ cd /
[vikas@localhost /]$ ls
bin dev home lib64 mnt proc run srv tmp var
boot etc lib media opt root sbin sys usr
```

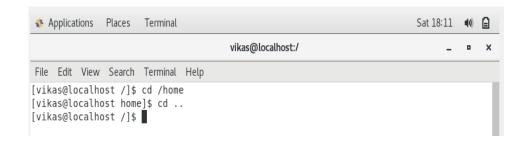
- Enter the command now cd /home and then hit Enter key
 - o Do **Is,** provide screenshot and explain what is **/home** directory used for?

<u>Answer</u>: /home directory is one's individual directory in the linux system. This directory is automatically created once you login and also called as login directory. The user can store his individual files in this directory

```
[vikas@localhost /]$ cd /home
[vikas@localhost home]$ ls
vikas
```

- Enter cd .. and hit Enter key [Note: here we have space after cd then use double dot]
 - o Check what happen and give screenshot?

Answer: cd .. takes us to one directory level up



- Now enter cd /var/www/html and then type cd and hit Enter key
 - o Explain what happen and give screenshot?

<u>Answer</u>: We get an error as no such file or directory since the var folder doesn't have a file called www inside it.

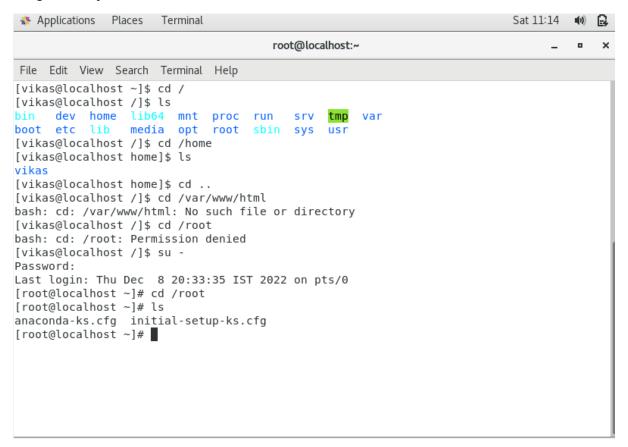
```
[vikas@localhost home]$ cd ..
[vikas@localhost /]$ cd /var/www/html
bash: cd: /var/www/html: No such file or directory
```

- Now type **cd /root** and then hit **Enter** key
 - o Do **Is,** check any output we have on screen if yes then take screenshot?

Answer: When we give cd/root, we get error as "Permission denied" since we are not logged in as a root user. So use su-to login as root user and then give cd/root followed by ls to get the files in the home directory of root user

```
[vikas@localhost /]$ cd /root
bash: cd: /root: Permission denied
[vikas@localhost /]$ su -
Password:
Last login: Thu Dec 8 20:33:35 IST 2022 on pts/0
[root@localhost ~]# cd /root
[root@localhost ~]# ls
anaconda-ks.cfg initial-setup-ks.cfg
[root@localhost ~]# |
```

Assignment 3 full screenshot:

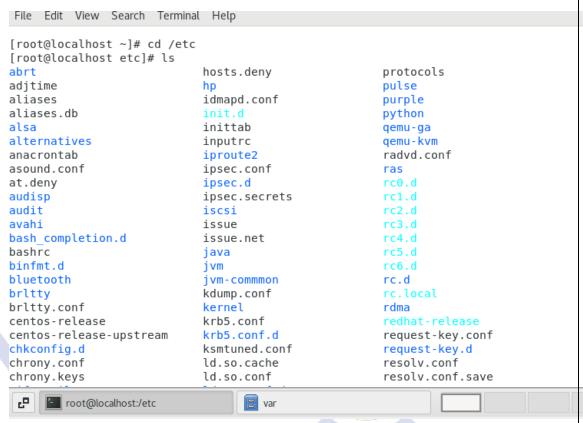


Assignment-4

Working with File Listing

- Go to cd /etc and type Is
 - o Take screenshot and explain what files you have seeing?

<u>Answer</u>: On giving cd /etc followed by ls , we see all the files present in the etc directory (It has all the config files)



 Take screenshot and explain what different output you found compare to previous command you used?

<u>Answer</u>: For all the commands used before we didn't see any config related files. But in etc directory we see those

- Then type Is -al and hit Enter key
 - o Take screenshot and explain what new file or directory you found?

<u>Answer</u> This command gives us the hidden files in the directory in a long list. We can view files starting with "." displayed here. We can see the first two lines have file with "." and ".."

Then use Is -i and hit Enter key

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Now see what different output its shows and take screenshot?

<u>Answer</u>: This gives us the Index number (inode) of each file in the directory.

```
_____
[root@localhost etc]# ls -i
34542840 abrt
                                          2992966 mcelog
                                        17226377 mke2fs.conf
17445510 adjtime
16777834 aliases
                                        17378801 modprobe.d
                                    17378801 modprobe.d
1228840 modules-load.d
16777848 motd
16777284 mtab
17048473 mtools.conf
17574002 multipath
17349872 my.cnf
17349873 my.cnf.d
17960032 nanorc
34590756 ndctl
17933946 aliases.db
 1689682 alsa
33927954 alternatives
17445482 anacrontab
17192591 asound.conf
17926600 at.deny
51146806 audisp
17523893 audit
   176763 avahi 34590756 ndctl
74276 bash_completion.d 17226398 netconfig
777835 bashrc 34493618 NetworkManager
35176763 avahi
16777835 bashrc
17523873 oddjobd.conf
17545048 chrony.keys
                                           1552480 oddjobd.conf.d
51967965 cifs-utils
```

- Then use is -help and see other options about is command
 - Explore it and try with other attribute we can use with Is command

```
vikas@localhost etc]$ ls --help
sage: ls [OPTION]... [FILE]...
ist information about the FILEs (the current directory by default).
ort entries alphabetically if none of -cftuvSUX nor --sort is specified.
andatory arguments to long options are mandatory for short options too.
 -a, --all
                            do not ignore entries starting with .
 -A, --almost-all
                            do not list implied . and ..
     --author
                            with -l, print the author of each file
 -b, --escape
                            print C-style escapes for nongraphic characters
     --block-size=SIZE
                            scale sizes by SIZE before printing them; e.g.,
                              '--Block-size=M' prints sizes in units of
                              1,048,576 bytes; see SIZE format below
 -B, --ignore-backups
                            do not list implied entries ending with ~
                            with -lt: sort by, and show, ctime (time of last
 - C
                              modification of file status information);
                              with -l: show ctime and sort by name;
                              otherwise: sort by ctime, newest first
                            list entries by columns
     --color[=WHEN]
                            colorize the output; WHEN can be 'never', 'auto',
                            or 'always' (the default); more info below
```

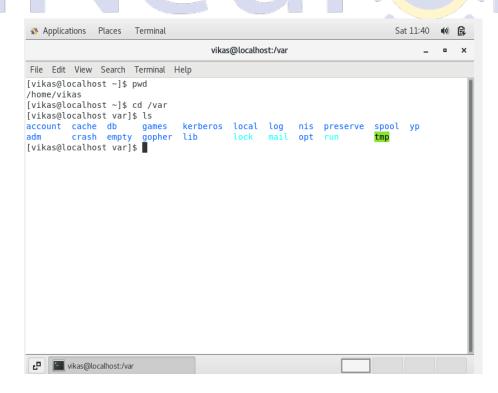
Assignment-5

Know where you are and where you working

Here we use **pwd, cd and Is** as combine task to understand where you working on terminal and how you can switch from one directory to another one.

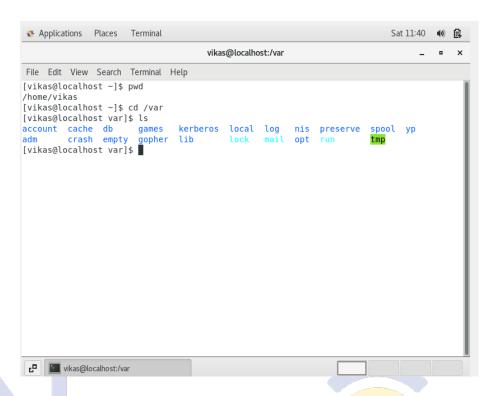
- Open terminal after restart the linux
 - Check which location you working, type pwd and take screenshot

Answer: This tells us the present working directory (/home/vikas)



- Now use cd /var and hit Enter key
 - o Do **Is,** and see what output comes, give screenshot?

Answer: This lists the files present in var directory



Do explore other help options of each command to learn more other things we can do with these commands