

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?

Sol) It will give error , it shows user does not exist or the user entry does not contain all the required fields. We have to give to give correct username to work this command without error

Assignment-2

Password changing

- Login into your account and then change password?
 - O Change your password into IneuROn#42 and hit the Enter key
 - Explain what happen and give screenshot?
 - o Try again to change password but use like password 1234 or abcd

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

Sol) 1. used **passwd** command to change password. It asked current password after that new password and retype new password after pressing enter it given password updated successfully

2) It asked current password after that new password and retype new password after pressing enter it given password updated successfully

```
→ narottam ~ passwd
Changing password for narottam.
Current password:
New password:
Retype new password:
passwor updated successfully
→ narottam ~ |
```

3) No password has been supplied and keep on coming new password and retype new password, It means in Linux password is compulsory

Assignment-3

Working with Directories

- Enter the command cd / and then ls and then hit Enter key
 - O Take screenshot and explain what output we got?
- Sol) **cd** / command changes the current working directory to the root directory and **ls** show the list of files of that current directory.
- cd / and then ls and hit the Enter key, you will see a list of the files and directories that are located in the root directory.

```
→ narottam ~ cd /
→ narottam / ls

lrwxrwxrwx 7 root 19 Oct 2022 pbin -> usr/bin

drwxr-xr-x - root 28 Jan 21:50 boot

drwxr-xr-x - root 31 Jan 07:12 bdev

drwxr-xr-x - root 31 Jan 09:12 betc

drwxr-xr-x - root 31 Jan 09:12 betc

drwxr-xr-x - root 19 Oct 2022 wlib -> usr/lib

lrwxrwxrwx 7 root 19 Oct 2022 blib64 -> usr/lib

drwx----- - root 23 Jan 17:47 blost+found

drwxr-xr-x - root 19 Oct 2022 bmt

drwxr-xr-x - root 19 Oct 2022 bmt

drwxr-xr-x - root 31 Jan 07:12 bproc

drwxr-xr-x - root 31 Jan 07:12 bproc

drwxr-xr-x - root 31 Jan 08:28 brun

lrwxrwxrwx 7 root 19 Oct 2022 bsbin -> usr/bin

drwxr-xr-x - root 14 Dec 2022 bsv

drwxr-xr-x - root 31 Jan 07:12 bsys

drwxr-xr-x - root 31 Jan 09:16 btmp

drwxr-xr-x - root 28 Jan 21:50 busr

drwxr-xr-x - root 28 Jan 21:51 bvar

.rw-r-r-- 8 root 14 Dec 2022 resion

→ narottam /
```

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

Sol) The cd /home command changes the current working directory to the "/home" directory. Each user has their own subdirectory within the "/home" directory where they can store their personal files, settings, and configurations.

the "/home" directory is used to store user-specific files and configurations, allowing each user to have their own personalized environment and separate storage space.

```
→ narottam / cd /home
→ narottam home ls
drwxr-xr-x - narottam 31 Jan 07:12 ▷ narottam
→ narottam home
```

- Enter cd .. and hit Enter key [Note: here we have space after cd then use double dot]
 O Check what happen and give screenshot?
- Sol) **cd** .. we will move up one level in the file system hierarchy, from the current working directory to its parent directory. Changed current home directory to root directory.

```
→ narottam home cd ..

→ narottam / ls

lrwxrwxrwx 7 root 19 Oct 2022 pbin -> usr/bin

drwxr-xr-x - root 28 Jan 21:50 >> boot

drwxr-xr-x - root 31 Jan 07:12 >> dev

drwxr-xr-x - root 31 Jan 09:12 >> etc

drwxr-xr-x - root 23 Jan 17:54 >> home

lrwxrwxrwx 7 root 19 Oct 2022 <> lib -> usr/lib

lrwxrwxrwx 7 root 19 Oct 2022 >> lib64 -> usr/lib

drwxr-xr-x - root 23 Jan 17:44 >> lost+found

drwxr-xr-x - root 29 Jan 17:47 >> lost+found

drwxr-xr-x - root 31 Jan 07:12 >> proc

drwxr-xr-x - root 31 Jan 07:12 >> proc

drwxr-xr-x - root 31 Jan 07:12 >> proc

drwxr-xr-x - root 31 Jan 08:28 >> run

lrwxrwxrwx 7 root 19 Oct 2022 >> sbin -> usr/bin

drwxr-xr-x - root 31 Jan 09:21 >> sys

drwxr-xr-x - root 31 Jan 09:21 >> sys

drwxr-xr-x - root 31 Jan 09:31 >> tmp

drwxr-xr-x - root 28 Jan 21:50 >> usr

drwxr-xr-x - root 40 Dec 2022 |- urrston -- usr

¬rw-r--r-- 8 root 14 Dec 2022 |- urrston -- usr

¬rarottam /
```

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

Sol) No such file or directory has came as output. That directory doesn't exist at that place.

```
→ narottam ~ cd /var/www/html
bash: cd: /var/www/html: No such file or directory
→ narottam ~
```

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

```
| The proof of th
```

.....

Assignment-4

Working with File Listing

- Go to cd /etc and type Is
 - 0 Take screenshot and explain what files you have seeing?
 - O Take screenshot and explain what different output you found compare to previous command you used?

Sol) The cd /etc command changes the current working directory to the "/etc" directory. from previous command by comparing the output of this command with the output of previous commands, you will notice that the "/etc" directory contains different types of files than the other directories I have explored so far, and these files are essential for the proper functioning of the system and applications.

```
→ narottam ~ cd /etc
→ narottam etc ls

drwxr-xr-x - root 23 Jan 18:44 ⋈ a2ps

drwxr-xr-x - root 24 Dec 2022 ⋈ alsa

drwxr-xr-x - root 23 Jan 19:49 ⋈ apparmor.d

drwxr-xr-x - root 23 Jan 18:44 ⋈ audtt

drwxr-xr-x - root 14 Dec 2022 ⋈ avahi

drwxr-xr-x - root 14 Dec 2022 ⋈ avahi

drwxr-xr-x - root 14 Dec 2022 ⋈ bash_completion.d

drwxr-xr-x - root 23 Jan 17:55 ⋈ bluetooth

drwxr-xr-x - root 14 Dec 2022 ⋈ ca-certificates

drwxr-xr-x - root 14 Dec 2022 ⋈ chromium

drwxr-xr-x - root 14 Dec 2022 ⋈ chromium

drwxr-xr-x - root 23 Jan 18:45 ⋈ cifs-utils

drwxr-xr-x - root 23 Jan 18:45 ⋈ cloud

drwxr-xr-x - root 23 Jan 18:45 ⋈ conf.d

drwxr-xr-x - root 14 Dec 2022 ⋈ cron.d

drwxr-xr-x - root 14 Dec 2022 ⋈ cron.d

drwxr-xr-x - root 14 Dec 2022 ⋈ cron.d

drwxr-xr-x - root 14 Dec 2022 ⋈ cron.monthly

drwxr-xr-x - root 15 Apr 2022 ⋈ cron.monthly

drwxr-xr-x - root 25 Apr 2022 ⋈ cron.monthly

drwxr-xr-x - root 25 Apr 2022 ⋈ cron.weekly

drwxr-xr-x - root 15 Dec 2022 ⋈ cron.weekly

drwxr-xr-x - root 15 Dec 2022 ⋈ cron.weekly

drwxr-xr-x - root 16 Dec 2022 ⋈ clouds-1

drwxr-xr-x - root 17 Dec 2022 ⋈ clouf

drwxr-xr-x - root 18 Dec 2022 ⋈ clouf

drwxr-xr-x - root 19 Dec 2022 ⋈ clouf

drwxr-xr-x - root 29 Jan 18:44 ⋈ daxctl.conf.d

drwxr-xr-x - root 29 Jan 18:44 ⋈ daxctl.conf.d

drwxr-xr-x - root 29 Jan 18:44 ⋈ daxctl.conf.d
```

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

Sol) The ls -al command will display information such as the file permissions, owner, group, size, and last modification time. This information can be useful for troubleshooting and managing files and directories in a Linux system.

- Then use **Is -i** and hit **Enter** key
 - O Now see what different output its shows and take screenshot?

Sol) I am seeing a list of all the files and subdirectories in this directory, along with their associated inode number.

```
→ narottam etc ls -i
10092555 drwxr-xr-x - root 23 Jan 18:44 ⋈ abs
10092556 drwxr-xr-x - root 14 Dec 2022 ⋈ alsa
10092556 drwxr-xr-x - root 23 Jan 19:49 ⋈ apparmor.d
10092559 drwxr-xr-x - root 14 Dec 2022 ⋈ avahi
10092550 drwxr-xr-x - root 14 Dec 2022 ⋈ absa
10092550 drwxr-xr-x - root 14 Dec 2022 ⋈ avahi
10092560 drwxr-xr-x - root 14 Dec 2022 ⋈ absh_completion.d
10092561 drwxr-xr-x - root 14 Dec 2022 ⋈ absh_completion.d
10092562 dr-xr-xr-x - root 23 Jan 19:45 ⋈ absh_completion.d
10092563 drwxr-xr-x - root 14 Dec 2022 ⋈ aca-certificates
10092565 drwxr-xr-x - root 14 Dec 2022 ⋈ aca-certificates
10092566 drwxr-xr-x - root 23 Jan 18:45 ⋈ cloud
10092566 drwxr-xr-x - root 23 Jan 18:45 ⋈ cloud
10092560 drwxr-xr-x - root 23 Jan 18:45 ⋈ cloud
10092560 drwxr-xr-x - root 23 Jan 18:45 ⋈ cloud
10092560 drwxr-xr-x - root 23 Jan 18:45 ⋈ cloud
10092560 drwxr-xr-x - root 23 Jan 18:45 ⋈ cloud
10092560 drwxr-xr-x - root 25 Apr 2022 ⋈ cron.dally
10092570 drwxr-xr-x - root 25 Apr 2022 ⋈ cron.burly
10092573 drwxr-xr-x - root 25 Apr 2022 ⋈ cron.morthly
10092573 drwxr-xr-x - root 25 Apr 2022 ⋈ cron.morthly
10092574 drwxr-xr-x - root 25 Apr 2022 ⋈ cron.weekly
10092575 drwxr-xr-x - root 27 Apr 2022 ⋈ cron.weekly
10092576 drwxr-xr-x - root 27 Apr 2022 ⋈ cron.weekly
10092576 drwxr-xr-x - root 27 Apr 2022 ⋈ cron.weekly
10092576 drwxr-xr-x - root 28 Jan 18:44 ⋈ daxctl.conf.d
10092577 drwxr-xr-x - root 28 Jan 18:44 ⋈ daxctl.conf.d
10092578 drwxr-xr-x - root 28 Jan 18:44 ⋈ daxctl.conf.d
10092579 drwxr-xr-x - root 28 Jan 18:44 ⋈ daxctl.conf.d
10092579 drwxr-xr-x - root 28 Jan 18:44 ⋈ daxctl.conf.d
10092579 drwxr-xr-x - root 28 Jan 18:44 ⋈ daxctl.conf.d
10092579 drwxr-xr-x - root 28 Jan 18:44 ⋈ daxctl.conf.d
10092579 drwxr-xr-x - root 28 Jan 18:44 ⋈ daxctl.conf.d
```

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

Sol) Done

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
 - O Check which location you working, type **pwd** and take screenshot

Sol)

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

Sol)

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