

LINUX COMMANDS

KEYWORDS

append = adding new information in particular existing file.

override = deletes the previous saved data and overrides with new one.

“;” *(semicolon)*:- Use to write the 2 different commands in one line

EX:- *command 1 ; command 2*

Shell Basics

Commands that are entered at the shell prompt have three basic parts:

- **Command** to run.
- **Options** to adjust the behavior of the command
- **Arguments**, which are typically targets of the command.

COMMANDS

- **ssh(secure shell)** :- आपल्याला दुसऱ्या workplace ला जायचं असेल तर
 - EX:- **student@workstation => student@servera**
- **passwd** :- आपल्याला current workplace चा password change करायचा असेल तर
- **whoami** :- To display the name of user.
- **date** :- Use to display the current Date and Time

```
[user@host ~]$ date
Sun Feb 27 08:32:42 PM EST 2022
```

- **EX:-**
- **file** :- Use to display the file's data-type

```
[user@host ~]$ file /home
/home: directory
```

```
[user@host ~]$ file /etc/passwd
/etc/passwd: ASCII text
```

- **cat** :- Use to display the contents of those file

```
[user@host ~]$ cat file1 file2
Hello World!!
```

ex:- Introduction to Linux commands.

- **head:-** Use to display the starting 10 lines of any file.

```
[user@host ~]$ head /etc/passwd
root:x:0:0:root:/root:/bin/bash
bin:x:1:1:bin:/bin:/sbin/nologin
daemon:x:2:2:daemon:/sbin:/sbin/nologin
adm:x:3:4:adm:/var/adm:/sbin/nologin
lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin
sync:x:5:0:sync:/sbin:/bin/sync
shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown
halt:x:7:0:halt:/sbin:/sbin/halt
mail:x:8:12:mail:/var/spool/mail:/sbin/nologin
operator:x:11:0:operator:/root:/sbin/nologin
```

Ex:-

- **tail:-** Use to display the last 10 lines of any file.

```
[user@host ~]$ tail -n 3 /etc/passwd
gdm:x:42:42::/var/lib/gdm:/sbin/nologin
gnome-initial-setup:x:980:978::/run/gnome-initial-setup:/sbin/nologin
dnsmasq:x:979:977:Dnsmasq DHCP and DNS server:/var/lib/dnsmasq:/sbin/nologin
```

Ex:-

(tail -n 3 means numbers of lines want to display)

- **wc:-** To display the number of lines_(-l), words_(-w), characters_(-c) of your file.
- **history:-** Use to show the list of commands which we have executed.

```
[user@host ~]$ history
...output omitted...
23 clear
24 who
25 pwd
26 ls /etc
27 uptime
28 ls -l
29 date
30 history
```

Ex:-

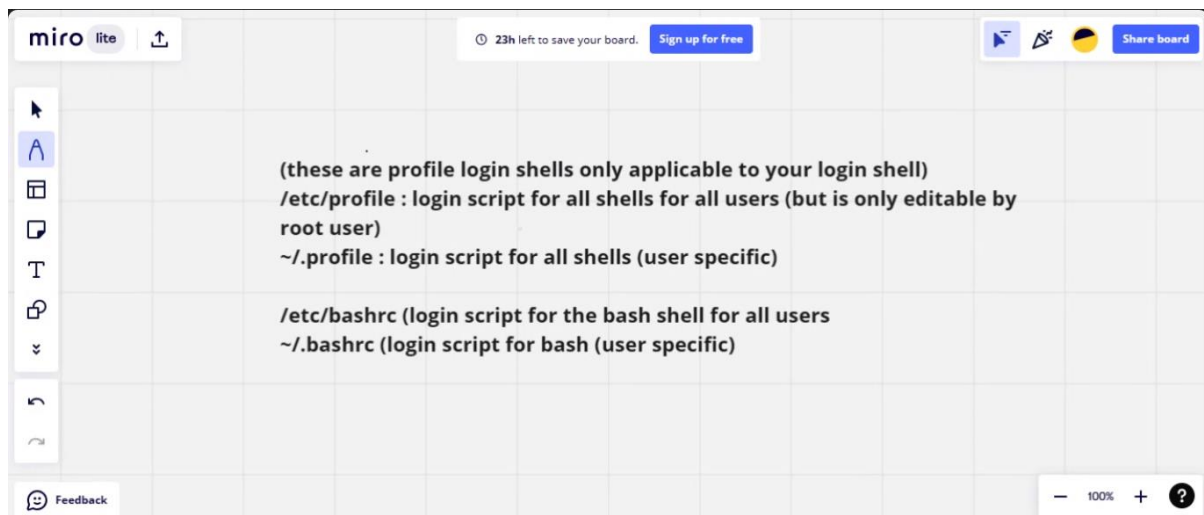
Under this command, we can also access the previous commands
Like this- (Using “!”)

```
[user@host ~]$ !ls
ls -l
total 0
drwxr-xr-x. 2 student student 6 Feb 27 19:24 Desktop
...output omitted...
[user@host ~]$ !26
ls /etc
abrt                                hosts                                pulse
adjtime                            hosts.allow                         purple
aliases                           hosts.deny                          qemu-ga
...output omitted...
```

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IN Vim

yank/put = copy/paste

A screenshot of a Linux terminal window. The title bar shows "Activities", "Terminal", and the date/time "Apr 11 09:58". The terminal prompt is "student@workstation:~". The following commands and their outputs are shown:

```
[student@workstation ~]$ COUNT=100
[student@workstation ~]$ echo COUNT
COUNT
[student@workstation ~]$ echo $COUNT
100
[student@workstation ~]$ file1=/tmp/data
[student@workstation ~]$ ls -l $file1
```

Here are 50 basic Linux commands that are useful for navigating and managing your system:

1. **pwd** - Print working directory.
2. **ls** - List directory contents.
3. **cd** - Change directory.
4. **touch** - To create a file without any content.
5. **cat** - Concatenate and display file content.
6. **cp** - Copy files or directories.
7. **mv** - Move or rename files or directories.
8. **rm** - Remove files or directories.
9. **mkdir** - Create a new directory.

10. **rmdir** - Remove an empty directory.
11. **echo** - Display a line of text or a variable value.
12. **nano** - A simple text editor.
13. **vi** - A powerful text editor.
14. **chmod** - Change file or directory permissions.
15. **chown** - Change file or directory owner and group.
16. **find** - Search for files in a directory hierarchy.
17. **grep** - Search text using patterns.
18. **man** - Display the manual for a command.
19. **ps** - Display information about running processes.
20. **kill** - Terminate processes by PID.
21. **top** - Display and update sorted information about processes.
22. **df** - Report file system disk space usage.
23. **du** - Estimate file space usage.
24. **free** - Display memory usage.
25. **uname** - Print system information.
26. **uptime** - Tell how long the system has been running.
27. **whoami** - Display the current user.
28. **sudo** - Execute a command as another user, typically the superuser.
29. **apt-get** - Package handling utility for Debian-based distributions.
30. **yum** - Package manager for RPM-based distributions.
31. **tar** - Archive files.
32. **zip** - Package and compress (archive) files.
33. **unzip** - Extract compressed files.
34. **wget** - Retrieve files from the web.
35. **curl** - Transfer data from or to a server.
36. **ssh** - OpenSSH client (remote login program).
37. **scp** - Secure copy (remote file copy program).
38. **rsync** - Remote file and directory synchronization.

- 39. **hostname** - Show or set the system's host name.
- 40. **ping** - Send ICMP ECHO_REQUEST to network hosts.
- 41. **netstat** - Print network connections, routing tables, interface statistics, masquerade connections, and multicast memberships.
- 42. **ifconfig** - Configure a network interface.
- 43. **ip** - Show/manipulate routing, devices, policy routing, and tunnels.
- 44. **iptables** - Administration tool for IPv4 packet filtering and NAT.
- 45. **systemctl** - Control the systemd system and service manager.
- 46. **journalctl** - Query and display messages from the journal.
- 47. **crontab** - Schedule periodic background jobs.
- 48. **sudo su** - allows us to switch to a different user and execute one or more commands in the shell without logging out from our current session
- 49. **mount** - Mount a file system.
- 50. **umount** - Unmount a file system.

These commands form the basis of interacting with a Linux system and performing various administrative tasks.

Goodluck from Vallabh Deshpande..(●'∪'●)!!