

Experiment No - 2

Different types of Commands in LINUX -

1) Name - date

Syntax - date

Description - Displays current date and time

```
tryhackme@linux1:~$ date
Thu Sep 12 08:55:26 UTC 2024
```

2) Name - whoami

Syntax - whoami

Description -

```
tryhackme@linux1:~$ whoami
tryhackme
```

3) Name - whatis

Syntax - whatis ls

Description - Displays the name of current user who is log in

```
tryhackme@linux1:~$ whatis ls
ls (1) - list directory contents
```

4) Name - pwd

Syntax - pwd

Description - Displays the current working directory's full path

```
tryhackme@linux1:~$ pwd
/home/tryhackme
```

5) Name - mkdir

Syntax - mkdir directory_name

Description - Creates new directories in the file system

```
tryhackme@linux1:~$ mkdir akshat
tryhackme@linux1:~$ ls
access.log akshat folder1 folder2 folder3 folder4
```

6) Name - rmdir

Syntax - rmdir directory_name

Description - Removes empty directories from the system.

```
tryhackme@linux1:~$ rmdir akshat
tryhackme@linux1:~$ ls
access.log folder1 folder2 folder3 folder4
```

7) Name - ls

Syntax - ls

Description - Lists files and directories in the current working directory.

```
tryhackme@linux1:~$ ls
access.log  akshat  folder1  folder2  folder3  folder4
```

8) Name - ls-l

Syntax - ls-l

Description - Displays a long list of files and directories in a directory

```
tryhackme@linux1:~$ ls -l
total 84
-rw-rw-r-- 1 tryhackme tryhackme 65522 May 10 2021 access.log
drwxrwxr-x 2 tryhackme tryhackme 4096 Sep 12 09:18 akshat
drwxr-xr-x 2 tryhackme tryhackme 4096 May 10 2021 folder1
drwxr-xr-x 2 tryhackme tryhackme 4096 May 10 2021 folder2
drwxr-xr-x 2 tryhackme tryhackme 4096 May 10 2021 folder3
drwxr-xr-x 2 tryhackme tryhackme 4096 May 10 2021 folder4
```

9) Name - touch

Syntax - touch file_name

Description - Creating empty files and updating the timestamps of existing files.

```
tryhackme@linux1:~$ touch myfile
```

10) Name - cd

Syntax - cd directory_name

Description - Used to change the current working directory.

```
tryhackme@linux1:~$ cd akshat
tryhackme@linux1:~/akshat$ cd ..
tryhackme@linux1:~$
```

11) Name - cat

Syntax - cat file_name

Description - Displays file contents.

```
tryhackme@linux1:~$ cat myfile
Hello my name is Akshat Mehta
```

12) Name - cat>

Syntax - cat>file_name

Description - Overwrite an existing file with new content.

```
tryhackme@linux1:~$ cat>myfile
Hello my name is Akshat Mehta
```

13) Name - cat>>

Syntax - cat>>file_name

Description - Add something in the last of a file.

```
tryhackme@linux1:~$ cat>>myfile
I am from Dewas.
tryhackme@linux1:~$ cat myfile
Hello my name is Akshat Mehta
I am from Dewas.
```

14) Name - cp

Syntax - cp myfile newfile

Description - Copies files and directories.

```
tryhackme@linux1:~$ cp myfile newfile
tryhackme@linux1:~$ cat newfile
Hello my name is Akshat Mehta
I am from Dewas.
```

15) Name - head

Syntax - head file_name

Description - Display the first 10 lines of files.

```
tryhackme@linux1:~$ cat>myfile
abc
def
ghi
jkl
mno
pqr
stu
vyx
yz
123
456
789
101112
```

```
tryhackme@linux1:~$ head myfile
abc
def
ghi
jkl
mno
pqr
stu
vyx
yz
123
```

16) Name - tail

Syntax - tail file_name

Description - Displays the last 10 lines of files.

```
tryhackme@linux1:~$ cat>myfile
abc
def
ghi
jkl
mno
pqr
stu
vyx
yz
123
456
789
101112
```

```
tryhackme@linux1:~$ tail myfile
jkl
mno
pqr
stu
vyx
yz
123
456
789
101112
```

17) Name - ls -a

Syntax - ls -a

Description - List all files including hidden files.

```
tryhackme@linux1:~$ ls -a
.          .bash_history  .cache        akshat       folder3
..         .bash_logout  .profile      folder1      folder4
.Xauthority .bashrc       access.log    folder2      myfile
```

18) Name - mv

Syntax -

Description - To move a file or directory to a new location.

```
tryhackme@linux1:~$ mv myfile newmyfile
tryhackme@linux1:~$ ls -l
total 88
-rw-rw-r-- 1 tryhackme tryhackme 65522 May 10 2021 access.log
drwxrwxr-x 2 tryhackme tryhackme 4096 Sep 13 07:16 akshat
drwxr-xr-x 2 tryhackme tryhackme 4096 May 10 2021 folder1
drwxr-xr-x 2 tryhackme tryhackme 4096 May 10 2021 folder2
drwxr-xr-x 2 tryhackme tryhackme 4096 May 10 2021 folder3
drwxr-xr-x 2 tryhackme tryhackme 4096 May 10 2021 folder4
-rw-rw-r-- 1 tryhackme tryhackme 54 Sep 13 07:10 newmyfile
```

19) Name - grep

Syntax - grep [options] pattern [files]

Description - Used to search for specific patterns in a file.

```
tryhackme@linux1:~$ grep "Akshat" myfile
Hello my name is Akshat Mehta
```

20) Name - um

Syntax -

Description -

21) Name - su

Syntax - Used to switch from one user to another user.

Description -

```
tryhackme@linux1:~$ su tryhackme
Password: █
```

22) Name - sudo

Syntax - sudo [command]

Description - To run programs with elevated privileges as another user, such as the root user.

```
tryhackme@linux1:~$ sudo -V
Sudo version 1.8.31
Sudoers policy plugin version 1.8.31
Sudoers file grammar version 46
Sudoers I/O plugin version 1.8.31
```

23) Name - ipconfig

Syntax - ipconfig [options]

Description - Displays information about your computer network settings.

```

tryhackme@linux1:~$ ip
Usage: ip [ OPTIONS ] OBJECT { COMMAND | help }
       ip [ -force ] -batch filename
where  OBJECT := { link | address | addrlabel | route | rule | neigh | ntable
|
               tunnel | tuntap | maddress | mroute | mrule | monitor | xfr
m |
               netns | l2tp | fou | macsec | tcp metrics | token | netconf
| ila |
               vrf | sr | nexthop }
      OPTIONS := { -V[ersion] | -s[tatistics] | -d[etails] | -r[esolve] |
                  -h[uman-readable] | -iec | -j[son] | -p[retty] |
                  -f[amily] { inet | inet6 | mpls | bridge | link } |
                  -4 | -6 | -I | -D | -M | -B | -O |
                  -l[oops] { maximum-addr-flush-attempts } | -br[ief] |
                  -o[neline] | -t[imestamp] | -ts[hort] | -b[atch] [filename
] |
                  -rc[vbuf] [size] | -n[etns] name | -N[umeric] | -a[ll] |
                  -c[olor]}

```

24) Name - ifconfig

Syntax - ifconfig [interface] [options]

Description - Used to view and configure network interface settings

25) Name - nano*

Syntax - nano filename

Description - Edit files directly from the command line of Unix-based systems.

```

GNU nano 4.8      myfile
Hello my name is Akshat Mehta

[ Read 1 line ]
^G Get Help      ^O Write Out     ^W Where Is      ^K Cut Text      ^J Justify
^X Exit          ^R Read File     ^\ Replace       ^U Paste Text    ^T To Spell

```

26) Name - find

Syntax - find [directory/to/search] [parameter] [filename]

Description - Search for files and directories based on various criteria.

27) Name - ps

Syntax - ps [options]

Description - Displays information about the processes running on your system.

28) Name - *vi

Syntax - vi [filename]

Description - Edit an existing file or create a new file from scratch.

```
tryhackme@linux1:~$ vi myfile
```

```
My name is Akshat Mehta and i am from dewas
-- INSERT -- 1,44
```

```
tryhackme@linux1:~$ cat myfile
My name is Akshat Mehta and i am from dewas
```

29) Name - ln

Syntax - ln [options] source_file target_file

Description - Used to create links to files or directories

30) Name - pid

Syntax - pidof [options] process_name.

Description - Used to find process id(PID) of a running process.

```
tryhackme@linux1:~$ pidof bash
1027
tryhackme@linux1:~$ pidof -s bash
1027
tryhackme@linux1:~$ pidof -x bash
1027
```

31) Name - gid

Syntax -

Description -

```
tryhackme@linux1:~$ id
uid=1001(tryhackme) gid=1001(tryhackme) groups=1001(tryhackme)
tryhackme@linux1:~$ id -g tryhackme
1001
```

32) Name - chmod

Syntax -

Description -

33) Name - man

Syntax -

Description -

```
tryhackme@linux1:~$ man ls
LS(1)                                User Commands                                LS(1)

NAME
    ls - list directory contents

SYNOPSIS
    ls [OPTION]... [FILE]...

DESCRIPTION
    List information about the FILEs (the current directory by default).
    Sort entries alphabetically if none of -cftuvSUX nor --sort is speci-
    fied.

    Mandatory 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
        with -l, scale sizes by SIZE when printing them; e.g.,
        '--block-size=M'; see SIZE format below

    -B, --ignore-backups
        do not list implied entries ending with ~

    -c          with -lt: sort by, and show, ctime (time of last modification
                of file status information); with -l: show ctime and sort by
                name; otherwise: sort by ctime, newest first
```

34) Name - uid

Syntax -

Description -

```
tryhackme@linux1:~$ id
uid=1001(tryhackme) gid=1001(tryhackme) groups=1001(tryhackme)
tryhackme@linux1:~$ id -u tryhackme
1001
```

35) Name - wc

Syntax - wc filename

Description - Used to find out number of lines, word count, byte and characters count in the files specified in the file arguments.

```
tryhackme@linux1:~$ wc myfile
1 6 30 myfile
```

36) Name - df

Syntax - df

Description -

```
tryhackme@linux1:~$ df
Filesystem      1K-blocks    Used Available Use% Mounted on
/dev/root        10089288 2799104   7273800  28% /
devtmpfs         469512      0    469512    0% /dev
tmpfs            477836      0    477836    0% /dev/shm
tmpfs            95568       860    94708    1% /run
tmpfs            5120        0     5120    0% /run/lock
tmpfs            477836      0    477836    0% /sys/fs/cgroup
/dev/loop0       28800      28800      0 100% /snap/amazon-ssm-agent/2012
/dev/loop1       25856     25856      0 100% /snap/amazon-ssm-agent/7993
/dev/loop2       57088     57088      0 100% /snap/core18/2829
/dev/loop3       56704     56704      0 100% /snap/core18/1885
/dev/loop5       94080     94080      0 100% /snap/lxd/24061
/dev/loop6      106752    106752      0 100% /snap/core/17200
/dev/loop4       72320     72320      0 100% /snap/lxd/16922
/dev/loop7       65536     65536      0 100% /snap/core20/2318
tmpfs            95564      0    95564    0% /run/user/1001
```

37) Name - less

Syntax - less file_name

Description -

```
tryhackme@linux1:~$ less myfile
Hello my name is Akshat Mehta
(END)
```

38) Name - du

Syntax - du file_name

Description -

```
tryhackme@linux1:~$ du myfile
4      myfile
```