

## 1.man

```
NAME
man - an interface to the system reference manuals

SYNOPSIS
man [man options] [[section] page ...] ...
man -k [apropos options] regexp ...
man -K [man options] [section] term ...
man -f [whatis options] page ...
man -l [man options] file ...
man -w|-W [man options] page ...

DESCRIPTION
man is the system's manual pager. Each page argument given to man is normally the name of a program, utility or function. The manual page associated with each of these arguments is then found and displayed. A section, if provided, will direct man to look only in that section of the manual. The default action is to search in all of the available sections following a pre-defined order (see DEFAULTS), and to show only the first page found, even if page exists in several sections.

The table below shows the section numbers of the manual followed by the types of pages they contain.

1 Executable programs or shell commands
2 System calls (functions provided by the kernel)
3 Library calls (functions within program libraries)
4 Special files (usually found in /dev)
5 File formats and conventions, e.g. /etc/passwd
6 Games
7 Miscellaneous (including macro packages and conventions), e.g. man(7), groff(7), man-pages(7)
8 System administration commands (usually only for root)
9 Kernel routines [Non standard]
```

## 2.uname

Linux vivek-Lenovo-Legion-Y540-15IRH-PG0 6.2.0-39-generic #40~22.04.1-Ubuntu SMP PREEMPT\_DYNAMIC Thu Nov 16 10:53:04 UTC 2 x86\_64 x86\_64 x86\_64 GNU/Linux

## 3.pwd

/home/vivek/Desktop/sunbeam/os

## 4.hostname

vivek-Lenovo-Legion-Y540-15IRH-PG0

## 5.date

Tuesday 26 December 2023 04:56:26 PM IST

## 6.cal

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ cal
    December 2023
Su Mo Tu We Th Fr Sa
                1  2
 3  4  5  6  7  8  9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30
31
```

7.ls, dir

assign1.odt err.txt name.txt no.txt out.txt rep.txt select.txt sort.txt test.txt vivek

8.cat

9.cat>>

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ cat > hello.txt
hi dmc^C
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ cat hello.txt
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ cat >> hello.txt
hi
dmc
^C
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ cat hello.txt
hi
dmc
```

10.cp

vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os\$ cp hello.txt hi.txt

vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os\$ cat hi.txt

hi

dmc

11.mv

12.mv

```
mv: cannot stat 'hi.txt': No such file or directory
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ ls
assign1.odt err.txt hello.txt name.txt no.txt out.txt rep.txt select.txt sort.txt sunbeam test.txt vivek
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ mv sunbeam.txt hi
mv: cannot stat 'sunbeam.txt': No such file or directory
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ mv sunbeam hi
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ ls
assign1.odt err.txt hello.txt hi name.txt no.txt out.txt rep.txt select.txt sort.txt test.txt vivek
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ mv hi /vivek
mv: cannot move 'hi' to '/vivek': Permission denied
```

13.tac, rev

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ tac hi
dmc
hi
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ rev hi
ih
cmd
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$
```

#### 14.wc

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ wc hi
2 2 8 hi
```

#### 15.mkdir

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ mkdir dmc
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ ls
assign1.odt dmc err.txt hello.txt hi name.txt no.txt out.txt rep.txt select.txt sort.txt test.txt
vivek
```

#### 16.cd

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop$ cd sunbeam
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam$ ls
advjav college 'dbda prc' hybridprac javaprac os
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam$ cd os
```

#### 17.rm

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ ls
assign1.odt err.txt hi no.txt rep.txt select.txt test.txt vivek
dmc hello.txt name.txt out.txt scripts sort.txt vdemo.txt
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ rm hi
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ ls
assign1.odt err.txt name.txt out.txt scripts sort.txt vdemo.txt
dmc hello.txt no.txt rep.txt select.txt test.txt vivek
```

#### 18.touch

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ touch no.txt
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ stat no.txt
  File: no.txt
  Size: 38          Blocks: 8          IO Block: 4096   regular file
Device: 804h/2052d Inode: 12860365    Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1000/   vivek)   Gid: ( 1000/   vivek)
Access: 2023-12-29 14:23:22.672992172 +0530
Modify: 2023-12-29 14:23:22.672992172 +0530
Change: 2023-12-29 14:23:22.672992172 +0530
 Birth: 2023-12-26 14:20:49.698960994 +0530
```

#### 19.rmdir

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ dir
assign1.odt err.txt name.txt out.txt scripts sort.txt vdemo.txt
dmc hello.txt no.txt rep.txt select.txt test.txt vivek
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ rmdir err.txt
rmdir: failed to remove 'err.txt': Not a directory
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ rmdir vivek
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ ls
assign1.odt err.txt name.txt out.txt scripts sort.txt vdemo.txt
dmc hello.txt no.txt rep.txt select.txt test.txt
```

20. sort

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ sort no.txt
1
1
11
123
2
2
221
3
3
3
3234
4
5
6
7
```

21.uniq

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ cat hello.txt
hi
dmc
hi
dmcvivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ sort hello.txt | uniq
dmc
hi
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$
```

22.head

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ cat hello.txt
hi
dmc
hi
dmcvivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ head -n 3 hellxtt
hi
dmc
hi
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$
```

23.tail

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ tail -2 hello.txt
hi
dmcvivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$
```

24.

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ factor 20
20: 2 2 5
```

## 25.alias

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ alias list="ls -h -i"
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ list
12861596 assign1.odt 12860379 name.txt 12848048 scripts 12861808 vdemo.txt
12860594 dmc 12860365 no.txt 12860414 select.txt
12860380 err.txt 12860374 out.txt 12860366 sort.txt
12860510 hello.txt 12860425 rep.txt 12860381 test.txt
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$
```

## 26.unalias

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ unalias list
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ list
Command 'list' not found, did you mean:
  command 'mist' from snap mist (master)
  command 'lift' from deb lift (2.6.0-1)
  command 'dist' from deb mmh (0.4-4)
  command 'dist' from deb nmh (1.7.1-11)
```

## 27.echo

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ echo "hello from dmc "
hello from dmc
```

## 28.ps

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ ps
  PID TTY          TIME CMD
  4556 pts/0        00:00:00 bash
  4791 pts/0        00:00:00 ps
```

## 29.kill

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ kill
kill: usage: kill [-s sigspec | -n signum | -sigspec] pid | jobspec ... or kill -l [sigspec]
```

## 30.env

```
vivek@vivek-Lenovo-Legion-Y540-15IRH-PG0:~/Desktop/sunbeam/os$ env
SHELL=/bin/bash
SESSION_MANAGER=local/vivek-Lenovo-Legion-Y540-15IRH-PG0:@/tmp/.ICE-unix/1699,unix/vivek-Lenovo-Legion-Y540-15IRH-PG0:/tmp/.ICE-unix/1699
QT_ACCESSIBILITY=1
COLORTERM=truecolor
XDG_CONFIG_DIRS=/etc/xdg/xdg-ubuntu:/etc/xdg
SSH_AGENT_LAUNCHER=gnome-keyring
XDG_MENU_PREFIX=gnome-
GNOME_DESKTOP_SESSION_ID=this-is-deprecated
LANGUAGE=en_IN:en
GNOME_SHELL_SESSION_MODE=ubuntu
SSH_AUTH_SOCK=/run/user/1000/keyring/ssh
XMODIFIERS=@im=ibus
DESKTOP_SESSION=ubuntu
```