

```
varun@Varun: ~/Demo
-h[uman-readable] | -iec | -j[son] | -p[retty] |
-f[amily] { inet | inet6 | mpls | bridge | link } |
-4 | -6 | -M | -B | -0 |
-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]}
varun@Varun:~/Demo$ echo text.txt
text.txt
varun@Varun:~/Demo$ du
16      .
varun@Varun:~/Demo$ df
Filesystem      1K-blocks      Used Available Use% Mounted on
/dev/sdb        263174212    1114496  248621560    1% /
none            1971452         4    1971448    1% /mnt/wsl
tools          123857916  80962040  42895876   66% /init
none            1971452         4    1971448    1% /run
none            1971452         0    1971452    0% /run/lock
none            1971452         0    1971452    0% /run/shm
none            1971452         0    1971452    0% /run/user
tmpfs           1971452         0    1971452    0% /sys/fs/cgroup
drivers         123857916  80962040  42895876   66% /usr/lib/wsl/drivers
lib             123857916  80962040  42895876   66% /usr/lib/wsl/lib
drvfs           123857916  80962040  42895876   66% /mnt/c
drvfs           976757756  98502668  878255088   11% /mnt/d
varun@Varun:~/Demo$ df -l
Filesystem      1K-blocks      Used Available Use% Mounted on
/dev/sdb        263174212    1114496  248621560    1% /
none            1971452         4    1971448    1% /mnt/wsl
tools          123857916  80962040  42895876   66% /init
none            1971452         4    1971448    1% /run
none            1971452         0    1971452    0% /run/lock
none            1971452         0    1971452    0% /run/shm
none            1971452         0    1971452    0% /run/user

om
niraj
kartik
shiv
vilas
rahul
varun@Varun:~/Demo$ head
^C
varun@Varun:~/Demo$ head text.txt
Hello varun
How are U
where was Uhello linux
varun
sanket
vipul
suraj
rohan
sachin
om
varun@Varun:~/Demo$ head -5 text.txt
Hello varun
How are U
where was Uhello linux
varun
sanket
varun@Varun:~/Demo$ tail text.txt
vipul
suraj
rohan
sachin
om
niraj
kartik
shiv
```

```
varun@Varun: ~/Demo
top - 16:27:38 up 28 min, 0 users, load average: 0.00, 0.00, 0.00
Tasks: 5 total, 1 running, 4 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.0 us, 0.0 sy, 0.0 ni,100.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 3850.5 total, 3710.7 free, 80.7 used, 59.0 buff/cache
MiB Swap: 1024.0 total, 1023.0 free, 1.0 used, 3626.9 avail Mem

  PID USER      PR  NI  VIRT  RES  SHR  S  %CPU  %MEM    TIME+  COMMAND
    1 root        20   0   1816  1184  1108  S   0.0   0.0   0:00.02 init
   56 root        20   0   2164   368    0  S   0.0   0.0   0:00.00 init
   57 root        20   0   2172   368    0  S   0.0   0.0   0:00.18 init
   58 varun       20   0   6072  5108  3392  S   0.0   0.1   0:00.23 bash
  129 varun       20   0   7808  3708  3108  R   0.0   0.1   0:00.00 top
```

```
varun@Varun: ~/Demo
^C
varun@Varun:~/Demo$ ln
ln: missing file operand
Try 'ln --help' for more information.
varun@Varun:~/Demo$ stat
stat: missing operand
Try 'stat --help' for more information.
varun@Varun:~/Demo$ time

real    0m0.000s
user    0m0.000s
sys     0m0.000s
varun@Varun:~/Demo$ w
 16:34:16 up 34 min, 0 users, load average: 0.00, 0.00, 0.00
USER      TTY      FROM          LOGIN@  IDLE   JCPU   PCPU   WHAT
varun@Varun:~/Demo$ halt
System has not been booted with systemd as init system (PID 1). Can't operate.
Failed to connect to bus: Host is down
varun@Varun:~/Demo$ is
Command 'is' not found, but can be installed with:
sudo apt install ironseed
varun@Varun:~/Demo$ ip
Usage: ip [ OPTIONS ] OBJECT { COMMAND | help }
       ip [ -force ] -batch filename
where  OBJECT := { address | addrlabel | fou | help | ila | ioam | l2tp | link |
                macsec | maddress | monitor | mptcp | mroute | mrule |
                neighbor | neighbour | netconf | netns | nexthop | ntable |
                ntbl | route | rule | sr | tap | tcpmetrics |
                token | tunnel | tuntap | vrf | xfrm }
       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 | -M | -B | -0 |
                   -l[oops] { maximum-addr-flush-attempts } | -br[ief] |
```

```

varun@Varun:~/Demo$ ls -ld /sys/fs/cgroup/*
-rw-r--r-- 1 root root 4096 Nov 17 12:01 /sys/fs/cgroup/cgroup
-rw-r--r-- 1 root root 4096 Nov 17 12:01 /sys/fs/cgroup/cpuacct
-rw-r--r-- 1 root root 4096 Nov 17 12:01 /sys/fs/cgroup/blkio
-rw-r--r-- 1 root root 4096 Nov 17 12:01 /sys/fs/cgroup/memory
-rw-r--r-- 1 root root 4096 Nov 17 12:01 /sys/fs/cgroup/devices
-rw-r--r-- 1 root root 4096 Nov 17 12:01 /sys/fs/cgroup/freezer
-rw-r--r-- 1 root root 4096 Nov 17 12:01 /sys/fs/cgroup/net_cls
-rw-r--r-- 1 root root 4096 Nov 17 12:01 /sys/fs/cgroup/perf_event
-rw-r--r-- 1 root root 4096 Nov 17 12:01 /sys/fs/cgroup/net_prio
-rw-r--r-- 1 root root 4096 Nov 17 12:01 /sys/fs/cgroup/hugetlb
-rw-r--r-- 1 root root 4096 Nov 17 12:01 /sys/fs/cgroup/pids
-rw-r--r-- 1 root root 4096 Nov 17 12:01 /sys/fs/cgroup/rdma
-rw-r--r-- 1 root root 4096 Nov 17 12:01 /proc
-rw-r--r-- 1 root root 4096 Nov 17 12:01 /proc/sys/fs/binfmt_misc

varun@Varun:~/Demo$ ls -ld /run/*
-rw-r--r-- 1 root root 4096 Nov 17 12:01 /run
-rw-r--r-- 1 root root 4096 Nov 17 12:01 /run/lock
-rw-r--r-- 1 root root 4096 Nov 17 12:01 /run/shm
-rw-r--r-- 1 root root 4096 Nov 17 12:01 /run/user

varun@Varun:~/Demo$ ls -ld /usr/lib/wsl/drivers
-rw-r--r-- 1 root root 4096 Nov 17 12:01 /usr/lib/wsl/drivers
-rw-r--r-- 1 root root 4096 Nov 17 12:01 /usr/lib/wsl/lib
-rw-r--r-- 1 root root 4096 Nov 17 12:01 /mnt/c
-rw-r--r-- 1 root root 4096 Nov 17 12:01 /mnt/d

varun@Varun:~/Demo$ tee
^C
varun@Varun:~/Demo$ tee suraj.txt
hello suraj
hello suraj
^C
varun@Varun:~/Demo$ cat suraj.txt
hello suraj
varun@Varun:~/Demo$ bc
Command 'bc' not found, but can be installed with:
sudo apt install bc

```

```
varun@Varun: ~/Demo
lsof 196 varun 4r DIR 0,25 0 295 /proc/196/fd
lsof 196 varun 5w FIFO 0,10 0t0 300 pipe
lsof 196 varun 6r FIFO 0,10 0t0 301 pipe
lsof 197 varun cwd DIR 8,16 4096 29342 /home/varun/Demo
lsof 197 varun rtd DIR 8,16 4096 2 /
lsof 197 varun txt REG 8,16 167544 1540 /usr/bin/lsof
lsof 197 varun mem REG 8,16 27002 6259 /usr/lib/x86_64-linux-gnu/gconv/gconv-modules.cache
lsof 197 varun mem REG 8,16 353616 2331 /usr/lib/locale/C.utf8/LC_CTYPE
lsof 197 varun mem REG 8,16 68552 6768 /usr/lib/x86_64-linux-gnu/libresolv.so.2
lsof 197 varun mem REG 8,16 22600 6629 /usr/lib/x86_64-linux-gnu/libkeyutils.so.1.9
lsof 197 varun mem REG 8,16 52080 6635 /usr/lib/x86_64-linux-gnu/libkrb5support.so.0.1
lsof 197 varun mem REG 8,16 18504 6497 /usr/lib/x86_64-linux-gnu/libcom_err.so.2.1
lsof 197 varun mem REG 8,16 182928 6627 /usr/lib/x86_64-linux-gnu/libk5crypto.so.3.1
lsof 197 varun mem REG 8,16 828000 6633 /usr/lib/x86_64-linux-gnu/libkrb5.so.3.3
lsof 197 varun mem REG 8,16 613064 6736 /usr/lib/x86_64-linux-gnu/libpcre2-8.so.0.10.4
lsof 197 varun mem REG 8,16 338712 6581 /usr/lib/x86_64-linux-gnu/libgssapi_krb5.so.2.2
lsof 197 varun mem REG 8,16 2216304 6488 /usr/lib/x86_64-linux-gnu/libc.so.6
lsof 197 varun mem REG 8,16 166280 6775 /usr/lib/x86_64-linux-gnu/libselinux.so.1
lsof 197 varun mem REG 8,16 182912 6807 /usr/lib/x86_64-linux-gnu/libtirpc.so.3.0.0
lsof 197 varun mem REG 8,16 240936 6292 /usr/lib/x86_64-linux-gnu/ld-linux-x86-64.so.2
lsof 197 varun 4r FIFO 0,10 0t0 300 pipe
lsof 197 varun 7w FIFO 0,10 0t0 301 pipe
varun@Varun:~/Demo$ chmod 777 text.txt
varun@Varun:~/Demo$ ls -l
total 8
-rwxrwxrwx 1 varun varun 119 Apr 12 16:22 text.txt
-rw-r--r-- 1 varun varun 119 Apr 12 16:27 varun.txt
varun@Varun:~/Demo$ df
Filesystem      1K-blocks      Used Available Use% Mounted on
/dev/sdb        263174212  1114492 248621564   1% /
none            1971452      4    1971448   1% /mnt/wsl
tools          123857916 80925264  42932652  66% /init
none            1971452      4    1971448   1% /run
none            1971452      0    1971452   0% /run/lock

varun@Varun:~/Demo
;; Query time: 20 msec
;; SERVER: 172.31.176.1#53(172.31.176.1) (UDP)
;; WHEN: Wed Apr 12 16:29:32 IST 2023
;; MSG SIZE rcvd: 86

varun@Varun:~/Demo$ unam
Command 'unam' not found, did you mean:
  command 'unar' from deb unar (1.10.1-2build11)
  command 'uname' from deb coreutils (8.32-4.1ubuntu1)
  command 'nam' from deb nam (1.15-5.2)
Try: sudo apt install <deb name>
varun@Varun:~/Demo$ uname
Linux
varun@Varun:~/Demo$ hostname
Varun
varun@Varun:~/Demo$ free -m
              total        used        free      shared  buff/cache   available
Mem:           3850         83        3643          0         123        3591
Swap:          1024          1         1022

varun@Varun:~/Demo$ wc text.txt
 15  21 119 text.txt
varun@Varun:~/Demo$ wc -l text.txt
15 text.txt
varun@Varun:~/Demo$ ps
  PID TTY          TIME CMD
   58 pts/0    00:00:00 bash
  195 pts/0    00:00:00 ps
varun@Varun:~/Demo$ lsof
COMMAND PID TID TASKCMD  USER  FD      TYPE DEVICE SIZE/OFF  NODE NAME
init      1      root  cwd      unknown /proc/1/cwd (readlink: Permission denied)
init      1      root  rtd      unknown /proc/1/root (readlink: Permission denied)
init      1      root  txt      unknown /proc/1/exe (readlink: Permission denied)
init      1      root  NOFD     /proc/1/fd (opendir: Permission denied)
init      1      5 init  root  cwd      unknown /proc/1/task/5/cwd (readlink: Permission denied)
```

```
varun@Varun: ~/Demo
Command 'cal' not found, but can be installed with:
sudo apt install ncal
varun@Varun:~/Demo$ cal
Command 'cal' not found, but can be installed with:
sudo apt install ncal
varun@Varun:~/Demo$ sudo apt install ncal
[sudo] password for varun:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package ncal
varun@Varun:~/Demo$ cal
Command 'cal' not found, but can be installed with:
sudo apt install ncal
varun@Varun:~/Demo$ w
 16:28:50 up 29 min,  0 users,  load average: 0.00, 0.00, 0.00
USER      TTY      FROM            LOGIN@   IDLE   JCPU   PCPU   WHAT
varun@Varun:~/Demo$ finger user
Command 'finger' not found, but can be installed with:
sudo apt install finger
varun@Varun:~/Demo$ sudo finger user
sudo: finger: command not found
varun@Varun:~/Demo$ dig amazon.com

; <<>> DiG 9.18.1-1ubuntu1.2-Ubuntu <<>> amazon.com
;; global options: +cmd
;; Got answer:
;; ->HEADER<- opcode: QUERY, status: NOERROR, id: 14669
;; flags: qr rd ad; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 0
;; WARNING: recursion requested but not available

;; QUESTION SECTION:
;amazon.com.                IN      A

varun@Varun: ~/Demo

varun@Varun:~/Demo$ bg
-bash: bg: current: no such job
varun@Varun:~/Demo$ fg
-bash: fg: current: no such job
varun@Varun:~/Demo$ date
Wed Apr 12 16:28:22 IST 2023
varun@Varun:~/Demo$ cal
Command 'cal' not found, but can be installed with:
sudo apt install ncal
varun@Varun:~/Demo$ cal
Command 'cal' not found, but can be installed with:
sudo apt install ncal
varun@Varun:~/Demo$ sudo apt install ncal
[sudo] password for varun:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package ncal
varun@Varun:~/Demo$ cal
Command 'cal' not found, but can be installed with:
sudo apt install ncal
varun@Varun:~/Demo$ w
 16:28:50 up 29 min,  0 users,  load average: 0.00, 0.00, 0.00
USER      TTY      FROM            LOGIN@   IDLE   JCPU   PCPU   WHAT
varun@Varun:~/Demo$ finger user
Command 'finger' not found, but can be installed with:
```