

```
Activities Terminal Apr 14 16:24 sarthak@sarthak-virtual-machine: ~

@[[|||||] 4.5%] Tasks: 105, 229 thr, 175 kthr; 1 running
1[|] 0.6%] Load average: 0.76 0.32 0.12
Mem[|||||] 1.45G/1.90G Uptime: 04:26:55
Swp[|||||] 224M/2.62G

Main I/O
PID USER PRI NI VIRT RES SHR S CPU% MEM% TIME+ Command
6908 sarthak 20 0 5936 4696 3312 R 2.6 0.2 0:03.11 /snap/htop/3654/usr/local/bin/htop
2456 sarthak 20 0 551M 29308 20580 S 0.6 1.5 0:09.63 /usr/libexec/gnome-terminal-server
1 root 20 0 164M 9512 5072 S 0.0 0.5 0:07.73 /sbin/init auto noprompt splash
363 root 19 -1 56428 13492 12676 S 0.0 0.7 0:05.29 /lib/systemd/systemd-journald
419 root 20 0 26716 2192 1956 S 0.0 0.1 0:00.68 /lib/systemd/systemd-udev
548 systemd-oo 20 0 14828 1576 1428 S 0.0 0.1 0:38.49 /lib/systemd/systemd-oomd
553 systemd-re 20 0 25268 3528 3116 S 0.0 0.2 0:00.91 /lib/systemd/systemd-resolved
556 systemd-ti 20 0 89380 1824 1724 S 0.0 0.1 0:00.68 /lib/systemd/systemd-timesyncd
608 systemd-ti 20 0 89380 1824 1724 S 0.0 0.1 0:00.00 /lib/systemd/systemd-timesyncd
764 root 20 0 242M 4316 3928 S 0.0 0.2 0:01.04 /usr/libexec/accounts-daemon
765 root 20 0 2812 788 780 S 0.0 0.0 0:00.38 /usr/sbin/acpid
768 avahi 20 0 7624 2356 2136 S 0.0 0.1 0:01.39 avahi-daemon: running [sarthak-virtual-machine.local]
770 root 20 0 18148 2120 1988 S 0.0 0.1 0:00.08 /usr/sbin/cron -f -P
772 messagebus 20 0 10992 4712 2768 S 0.0 0.2 0:04.22 @dbus-daemon --system --address=systemd: --nofork --nopidfile
773 root 20 0 263M 7524 6088 S 0.0 0.4 0:07.75 /usr/sbin/NetworkManager --no-daemon
781 root 20 0 82828 2576 2428 S 0.0 0.1 0:01.77 /usr/sbin/irqbalance --foreground
784 root 20 0 49712 3860 3660 S 0.0 0.2 0:00.25 /usr/bin/python3 /usr/bin/networkd-dispatcher --run-startup-t
793 root 20 0 245M 8112 4876 S 0.0 0.4 0:03.13 /usr/libexec/polkitd --no-debug
794 root 20 0 242M 3708 3540 S 0.0 0.2 0:00.07 /usr/libexec/power-profiles-daemon
795 syslog 20 0 217M 2628 2412 S 0.0 0.1 0:00.74 /usr/sbin/rsyslogd -n -iNONE
796 root 20 0 245M 8112 4876 S 0.0 0.4 0:00.00 /usr/libexec/polkitd --no-debug

F1Help F2Setup F3Search F4Filter F5Tree F6SortBy F7Nice F8Nice F9Kill F10Quit
```

```
Activities Terminal Apr 14 16:29 sarthak@sarthak-virtual-machine: ~

sarthak@sarthak-virtual-machine:~$
sarthak@sarthak-virtual-machine:~$
sarthak@sarthak-virtual-machine:~$ ls
case.sh          evenodd.sh      number.sh      test.txt
chmod            ifellf.sh      pattern.sh     until.sh
circle.sh        if.sh          Pictures       Videos
commandline.sh  leapyear.sh    posneg.sh     vita1.sh
demo.txt         Music          Public         while.sh
Desktop          myinext.sh     reader.sh     zip.tar
dir1             my1.sh         snap
Documents        myfile.tar     table.sh
Downloads        myfile.txt     Templates
sarthak@sarthak-virtual-machine:~$ cd dir1/
sarthak@sarthak-virtual-machine:~/dir1$ ls
file1.txt
sarthak@sarthak-virtual-machine:~/dir1$ tar -cvf zip.tar file1.txt
file1.txt
sarthak@sarthak-virtual-machine:~/dir1$ tar -cvf zip.tar *
file1.txt
tar: zip.tar: file is the archive; not dumped
sarthak@sarthak-virtual-machine:~/dir1$ ls
file1.txt  zip.tar
sarthak@sarthak-virtual-machine:~/dir1$ cat zip.tar
file1.txt000066400017500001750000000007114415755052012503 0ustar  sarthaksarthakhey....how are you?
I'm fine thank you...what about you?
sarthak@sarthak-virtual-machine:~/dir1$ tar -cvf zip.tar
tar: Cowardly refusing to create an empty archive
Try 'tar --help' or 'tar --usage' for more information.
sarthak@sarthak-virtual-machine:~/dir1$ tar -tvf zip.tar-rw-rw-r-- sarthak/sarthak 57 2023-04-13 16:02 file1.txt
sarthak@sarthak-virtual-machine:~/dir1$ tar -xvf zip.tarfile1.txt
sarthak@sarthak-virtual-machine:~/dir1$ tar -jcvf zip.tar.bz2 zip.tar
zip.tar
```

```
Activities Terminal Apr 14 16:30
sarthak@sarthak-virtual-machine: ~
sarthak@sarthak-virtual-machine:~/dir1$ groupmod new_group
groupmod: group 'new_group' does not exist
sarthak@sarthak-virtual-machine:~/dir1$ sudo groupmod new_group
[sudo] password for sarthak:
Sorry, try again.
[sudo] password for sarthak:
groupmod: group 'new_group' does not exist
sarthak@sarthak-virtual-machine:~/dir1$ cd ..
sarthak@sarthak-virtual-machine:~$ sudo groupmod new_group
groupmod: group 'new_group' does not exist
sarthak@sarthak-virtual-machine:~$ dfvd
dfvd: command not found
sarthak@sarthak-virtual-machine:~$
sarthak@sarthak-virtual-machine:~$ grep -c 'new_group' /etc/group
0
sarthak@sarthak-virtual-machine:~$ members new_group
Command 'members' not found, but can be installed with:
sudo apt install members
sarthak@sarthak-virtual-machine:~$ sudo apt install members
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
  members
0 upgraded, 1 newly installed, 0 to remove and 228 not upgraded.
Need to get 9,320 B of archives.
After this operation, 34.8 kB of additional disk space will be used.
Get:1 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 members amd64 20080128.1+nmu1build1 [9,320 B]
Fetched 9,320 B in 1s (9,723 B/s)
Selecting previously unselected package members.
(Reading database ... 196575 files and directories currently installed.)
Preparing to unpack .../members_20080128.1+nmu1build1_amd64.deb ...
Unpacking members (20080128.1+nmu1build1) ...
Setting up members (20080128.1+nmu1build1) ...
Processing triggers for man-db (2.10.2-1) ...
sarthak@sarthak-virtual-machine:~$
sarthak@sarthak-virtual-machine:~$
sarthak@sarthak-virtual-machine:~$ getent group new_folder
sarthak@sarthak-virtual-machine:~$ getent group new_group
sarthak@sarthak-virtual-machine:~$
sarthak@sarthak-virtual-machine:~$ group sarthak
Command 'group' not found, did you mean:
  command 'groups' from deb coreutils (8.32-4.1ubuntu1)
  command 'grop' from deb grop (2:0.10-1.2)
Try: sudo apt install <deb name>
sarthak@sarthak-virtual-machine:~$ groups sarthak
sarthak : sarthak adm cdrom sudo dip plugdev lpadmin lxd sambashare
sarthak@sarthak-virtual-machine:~$
sarthak@sarthak-virtual-machine:~$ groups
sarthak adm cdrom sudo dip plugdev lpadmin lxd sambashare
sarthak@sarthak-virtual-machine:~$
sarthak@sarthak-virtual-machine:~$ groups linux
groups: 'linux': no such user
sarthak@sarthak-virtual-machine:~$
sarthak@sarthak-virtual-machine:~$
sarthak@sarthak-virtual-machine:~$ man iostst
No manual entry for iostst
sarthak@sarthak-virtual-machine:~$
sarthak@sarthak-virtual-machine:~$ man iostat
```

```
Activities Terminal Apr 14 16:30
sarthak@sarthak-virtual-machine: ~
(Reading database ... 196575 files and directories currently installed.)
Preparing to unpack .../members_20080128.1+nmu1build1_amd64.deb ...
Unpacking members (20080128.1+nmu1build1) ...
Setting up members (20080128.1+nmu1build1) ...
Processing triggers for man-db (2.10.2-1) ...
sarthak@sarthak-virtual-machine:~$
sarthak@sarthak-virtual-machine:~$
sarthak@sarthak-virtual-machine:~$ getent group new_folder
sarthak@sarthak-virtual-machine:~$ getent group new_group
sarthak@sarthak-virtual-machine:~$
sarthak@sarthak-virtual-machine:~$ group sarthak
Command 'group' not found, did you mean:
  command 'groups' from deb coreutils (8.32-4.1ubuntu1)
  command 'grop' from deb grop (2:0.10-1.2)
Try: sudo apt install <deb name>
sarthak@sarthak-virtual-machine:~$ groups sarthak
sarthak : sarthak adm cdrom sudo dip plugdev lpadmin lxd sambashare
sarthak@sarthak-virtual-machine:~$
sarthak@sarthak-virtual-machine:~$ groups
sarthak adm cdrom sudo dip plugdev lpadmin lxd sambashare
sarthak@sarthak-virtual-machine:~$
sarthak@sarthak-virtual-machine:~$ groups linux
groups: 'linux': no such user
sarthak@sarthak-virtual-machine:~$
sarthak@sarthak-virtual-machine:~$
sarthak@sarthak-virtual-machine:~$ man iostst
No manual entry for iostst
sarthak@sarthak-virtual-machine:~$
sarthak@sarthak-virtual-machine:~$ man iostat
```

```
Activities Terminal Apr 14 16:31 sarthak@sarthak-virtual-machine: ~
sarthak@sarthak-virtual-machine:~$ iostat --human
Command 'iostat' not found, but can be installed with:
sudo apt install sysstat
sarthak@sarthak-virtual-machine:~$ sudo apt install sysstat
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Suggested packages:
  isag
The following NEW packages will be installed:
  sysstat
0 upgraded, 1 newly installed, 0 to remove and 228 not upgraded.
Need to get 487 kB of archives.
After this operation, 1,507 kB of additional disk space will be used.
Get:1 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 sysstat amd64 12.5.2-2ubuntu0.1 [487 kB]
Fetched 487 kB in 4s (128 kB/s)
Preconfiguring packages ...
Selecting previously unselected package sysstat.
(Reading database ... 196581 files and directories currently installed.)
Preparing to unpack .../sysstat_12.5.2-2ubuntu0.1_amd64.deb ...
Unpacking sysstat (12.5.2-2ubuntu0.1) ...
Setting up sysstat (12.5.2-2ubuntu0.1) ...

Creating config file /etc/default/sysstat with new version
update-alternatives: using /usr/bin/sar.sysstat to provide /usr/bin/sar (sar) in auto mode
Created symlink /etc/systemd/system/sysstat.service.wants/sysstat-collect.timer → /lib/systemd/system/sysstat-collect.timer.
```

```
Activities Terminal Apr 14 16:31 sarthak@sarthak-virtual-machine: ~
Processing triggers for man-db (2.10.2-1) ...
sarthak@sarthak-virtual-machine:~$ iostat --human
Linux 5.19.0-38-generic (sarthak-virtual-machine)      14/04/23      _x86_64_      (2 CPU)

avg-cpu:  %user   %nice %system %iowait  %steal   %idle
           0.5%    0.4%    0.8%    0.2%    0.0%   98.1%

Device            tps    kB_read/s    kB_wrtn/s    kB_dscd/s    kB_read    kB_wrtn    kB_dscd
loop0              0.00         0.0k         0.0k         0.0k        17.0k         0.0k         0.0k
loop1              0.00         0.0k         0.0k         0.0k       348.0k         0.0k         0.0k
loop10             0.14         1.7k         0.0k         0.0k       26.9M         0.0k         0.0k
loop11             0.00         0.0k         0.0k         0.0k      133.0k         0.0k         0.0k
loop12             0.00         0.0k         0.0k         0.0k      157.0k         0.0k         0.0k
loop13             0.00         0.0k         0.0k         0.0k      349.0k         0.0k         0.0k
loop14             0.00         0.0k         0.0k         0.0k      364.0k         0.0k         0.0k
loop15             0.00         0.0k         0.0k         0.0k      348.0k         0.0k         0.0k
loop16             0.12         4.3k         0.0k         0.0k      66.4M         0.0k         0.0k
loop17             0.00         0.0k         0.0k         0.0k       54.0k         0.0k         0.0k
loop18             0.00         0.0k         0.0k         0.0k      584.0k         0.0k         0.0k
loop19             0.00         0.0k         0.0k         0.0k       10.0k         0.0k         0.0k
loop2              0.04         0.5k         0.0k         0.0k        8.3M         0.0k         0.0k
loop3              0.00         0.1k         0.0k         0.0k        1.1M         0.0k         0.0k
loop4              0.00         0.1k         0.0k         0.0k        1.1M         0.0k         0.0k
loop5              0.00         0.1k         0.0k         0.0k        1.1M         0.0k         0.0k
loop6              0.00         0.1k         0.0k         0.0k        1.0M         0.0k         0.0k
loop7              0.00         0.0k         0.0k         0.0k      363.0k         0.0k         0.0k
loop8              0.00         0.1k         0.0k         0.0k        1.1M         0.0k         0.0k
loop9              0.04         0.4k         0.0k         0.0k        6.1M         0.0k         0.0k
sda                7.69       167.6k       96.9k         0.0k       2.5G       1.5G         0.0k
sr0                0.01         0.3k         0.0k         0.0k       5.1M         0.0k         0.0k
```

```
Activities Terminal Apr 14 16:31
sarthak@sarthak-virtual-machine: ~
sarthak@sarthak-virtual-machine:~$
sarthak@sarthak-virtual-machine:~$ iostat --pretty
Linux 5.19.0-38-generic (sarthak-virtual-machine) 14/04/23 _x86_64_ (2 CPU)

avg-cpu:  %user   %nice %system %iowait  %steal   %idle
           0.53    0.40    0.78    0.20    0.00   98.09

   tps    kB_read/s    kB_wrtn/s    kB_dscd/s    kB_read    kB_wrtn    kB_dscd Device
   0.00         0.00         0.00         0.00         17         0         0 loop0
   0.00         0.02         0.00         0.00         348         0         0 loop1
   0.14         1.72         0.00         0.00       27512         0         0 loop10
   0.00         0.01         0.00         0.00         133         0         0 loop11
   0.00         0.01         0.00         0.00         157         0         0 loop12
   0.00         0.02         0.00         0.00         349         0         0 loop13
   0.00         0.02         0.00         0.00         364         0         0 loop14
   0.00         0.02         0.00         0.00         348         0         0 loop15
   0.12         4.26         0.00         0.00       67945         0         0 loop16
   0.00         0.00         0.00         0.00          54         0         0 loop17
   0.00         0.04         0.00         0.00         584         0         0 loop18
   0.00         0.00         0.00         0.00          10         0         0 loop19
   0.04         0.53         0.00         0.00      8461         0         0 loop2
   0.00         0.07         0.00         0.00      1083         0         0 loop3
   0.00         0.07         0.00         0.00      1160         0         0 loop4
   0.00         0.07         0.00         0.00      1078         0         0 loop5
   0.00         0.07         0.00         0.00      1073         0         0 loop6
   0.00         0.02         0.00         0.00         363         0         0 loop7
   0.00         0.07         0.00         0.00      1096         0         0 loop8
   0.04         0.39         0.00         0.00      6272         0         0 loop9
   7.69       167.44       96.81         0.00    2672549    1545213         0 sda
   0.01         0.33         0.00         0.00       5230         0         0 sr0
```

```
Activities Terminal Apr 14 16:32
sarthak@sarthak-virtual-machine: ~
sarthak@sarthak-virtual-machine:~$
sarthak@sarthak-virtual-machine:~$ htop
sarthak@sarthak-virtual-machine:~$
sarthak@sarthak-virtual-machine:~$ iostat
Linux 5.19.0-38-generic (sarthak-virtual-machine) 14/04/23 _x86_64_ (2 CPU)

avg-cpu:  %user   %nice %system %iowait  %steal   %idle
           0.54    0.43    0.81    0.21    0.00   98.01

Device      tps    kB_read/s    kB_wrtn/s    kB_dscd/s    kB_read    kB_wrtn    kB_dscd
loop0         0.00         0.00         0.00         0.00         17         0         0
loop1         0.00         0.02         0.00         0.00         348         0         0
loop10        0.14         1.70         0.00         0.00       27512         0         0
loop11        0.00         0.01         0.00         0.00         133         0         0
loop12        0.00         0.02         0.00         0.00         390         0         0
loop13        0.00         0.02         0.00         0.00         349         0         0
loop14        0.00         0.02         0.00         0.00         364         0         0
loop15        0.00         0.02         0.00         0.00         348         0         0
loop16        0.12         4.49         0.00         0.00       72878         0         0
loop17        0.00         0.00         0.00         0.00          54         0         0
loop18        0.00         0.04         0.00         0.00         584         0         0
loop19        0.00         0.00         0.00         0.00          10         0         0
loop2         0.04         0.64         0.00         0.00     10461         0         0
loop3         0.00         0.07         0.00         0.00      1083         0         0
loop4         0.00         0.07         0.00         0.00      1160         0         0
loop5         0.00         0.07         0.00         0.00      1078         0         0
loop6         0.00         0.07         0.00         0.00      1073         0         0
loop7         0.00         0.02         0.00         0.00         363         0         0
loop8         0.00         0.07         0.00         0.00      1096         0         0
loop9         0.04         0.39         0.00         0.00      6272         0         0
sda           7.68       166.62       95.78         0.00    2703169    1553945         0
```

```
Activities Terminal Apr 14 16:32 sarthak@sarthak-virtual-machine: ~
sarthak@sarthak-virtual-machine:~$ iostat -x
Linux 5.19.0-38-generic (sarthak-virtual-machine) 14/04/23 _x86_64_ (2 CPU)
avg-cpu:  %user   %nice %system %iowait  %steal   %idle
           0.54    0.43    0.81    0.21    0.00   98.01

Device            r/s    kB/s    rrqm/s    %rrqm    r_await    rareq-sz    w/s    kB/s    wrqm/s    %wrqm    w_await    wareq-sz    d/s
loop0              0.00    0.00    0.00    0.00    0.00    0.07    1.21    0.00    0.00    0.00    0.00    0.00    0.00
loop1              0.00    0.00    0.00    0.00    0.00    1.11    7.73    0.00    0.00    0.00    0.00    0.00    0.00
loop10             0.14    1.70    0.00    0.00    0.60    12.25    0.00    0.00    0.00    0.00    0.00    0.00    0.00
loop11             0.00    0.01    0.00    0.00    0.00    1.41    3.41    0.00    0.00    0.00    0.00    0.00    0.00
loop12             0.00    0.02    0.00    0.00    0.00    1.89    7.22    0.00    0.00    0.00    0.00    0.00    0.00
loop13             0.00    0.02    0.00    0.00    0.00    1.74    8.12    0.00    0.00    0.00    0.00    0.00    0.00
loop14             0.00    0.02    0.00    0.00    0.00    1.55    7.43    0.00    0.00    0.00    0.00    0.00    0.00
loop15             0.00    0.02    0.00    0.00    0.00    2.23    8.09    0.00    0.00    0.00    0.00    0.00    0.00
loop16             0.12    4.49    0.00    0.00    0.00    2.48    36.29    0.00    0.00    0.00    0.00    0.00    0.00
loop17             0.00    0.00    0.00    0.00    0.00    0.95    2.70    0.00    0.00    0.00    0.00    0.00    0.00
loop18             0.00    0.04    0.00    0.00    0.00    0.68    12.43    0.00    0.00    0.00    0.00    0.00    0.00
loop19             0.00    0.00    0.00    0.00    0.00    0.60    1.00    0.00    0.00    0.00    0.00    0.00    0.00
```

```
Activities Terminal Apr 14 16:32 sarthak@sarthak-virtual-machine: ~
sarthak@sarthak-virtual-machine:~$ iostat -c
Linux 5.19.0-38-generic (sarthak-virtual-machine) 14/04/23 _x86_64_ (2 CPU)
avg-cpu:  %user   %nice %system %iowait  %steal   %idle
           0.54    0.43    0.81    0.21    0.00   98.01

Device            tps    kB_read/s    kB_wrtn/s    kB_dscd/s    kB_read    kB_wrtn    kB_dscd
loop0              0.00    0.00    0.00    0.00    17    0    0
loop1              0.00    0.02    0.00    0.00    348    0    0
loop10             0.14    1.69    0.00    0.00    27512    0    0
loop11             0.00    0.01    0.00    0.00    133    0    0
loop12             0.00    0.02    0.00    0.00    390    0    0
loop13             0.00    0.02    0.00    0.00    349    0    0
loop14             0.00    0.02    0.00    0.00    364    0    0
loop15             0.00    0.02    0.00    0.00    348    0    0
loop16             0.12    4.49    0.00    0.00    72878    0    0
loop17             0.00    0.00    0.00    0.00    54    0    0
loop18             0.00    0.04    0.00    0.00    584    0    0
loop19             0.00    0.00    0.00    0.00    10    0    0
loop2              0.04    0.64    0.00    0.00    10461    0    0
loop3              0.00    0.07    0.00    0.00    1083    0    0
loop4              0.00    0.07    0.00    0.00    1160    0    0
```



```
Activities Terminal Apr 14 16:34 sarthak@sarthak-virtual-machine: ~

sarthak@sarthak-virtual-machine:~$ iostat -xd
Linux 5.19.0-38-generic (sarthak-virtual-machine) 14/04/23 _x86_64_ (2 CPU)

Device      kB/s      r/s      rkB/s      rrqm/s      %rrqm      r_await      rareq-sz      w/s      wkB/s      wrqm/s      %wrqm      w_await      wareq-sz      d/s
loop0      0.00      0.00      0.00      0.00      0.00      0.00      0.07      1.21      0.00      0.00      0.00      0.00      0.00      0.00
loop1      0.00      0.00      0.02      0.00      0.00      0.00      1.11      7.73      0.00      0.00      0.00      0.00      0.00      0.00
loop10     0.00      0.14      1.69      0.00      0.00      0.00      0.60      12.25      0.00      0.00      0.00      0.00      0.00      0.00
loop11     0.00      0.00      0.01      0.00      0.00      0.00      1.41      3.41      0.00      0.00      0.00      0.00      0.00      0.00
loop12     0.00      0.00      0.02      0.00      0.00      0.00      1.89      7.22      0.00      0.00      0.00      0.00      0.00      0.00
loop13     0.00      0.00      0.02      0.00      0.00      0.00      1.74      8.12      0.00      0.00      0.00      0.00      0.00      0.00
loop14     0.00      0.00      0.02      0.00      0.00      0.00      1.55      7.43      0.00      0.00      0.00      0.00      0.00      0.00
loop15     0.00      0.00      0.02      0.00      0.00      0.00      2.23      8.09      0.00      0.00      0.00      0.00      0.00      0.00
loop16     0.00      0.12      4.49      0.00      0.00      0.00      2.48      36.29      0.00      0.00      0.00      0.00      0.00      0.00
loop17     0.00      0.00      0.00      0.00      0.00      0.00      0.95      2.70      0.00      0.00      0.00      0.00      0.00      0.00
loop18     0.00      0.00      0.04      0.00      0.00      0.00      0.68      12.43      0.00      0.00      0.00      0.00      0.00      0.00
loop19     0.00      0.00      0.00      0.00      0.00      0.00      0.60      1.00      0.00      0.00      0.00      0.00      0.00      0.00
loop2      0.00      0.04      0.64      0.00      0.00      0.00      2.26      14.37      0.00      0.00      0.00      0.00      0.00      0.00
```

```
Activities Terminal Apr 14 16:35 sarthak@sarthak-virtual-machine: ~

sarthak@sarthak-virtual-machine:~$ iostat -k
Linux 5.19.0-38-generic (sarthak-virtual-machine) 14/04/23 _x86_64_ (2 CPU)

avg-cpu:  %user   %nice %system %iowait  %steal   %idle
           0.54    0.43    0.81    0.21    0.00   98.01

Device      tps      kB_read/s      kB_wrtn/s      kB_dscd/s      kB_read      kB_wrtn      kB_dscd
loop0      0.00      0.00      0.00      0.00      17      0      0
loop1      0.00      0.02      0.00      0.00      348      0      0
loop10     0.14      1.69      0.00      0.00      27512      0      0
loop11     0.00      0.01      0.00      0.00      133      0      0
loop12     0.00      0.02      0.00      0.00      390      0      0
loop13     0.00      0.02      0.00      0.00      349      0      0
loop14     0.00      0.02      0.00      0.00      364      0      0
loop15     0.00      0.02      0.00      0.00      348      0      0
loop16     0.12      4.48      0.00      0.00      72878      0      0
loop17     0.00      0.00      0.00      0.00      54      0      0
loop18     0.00      0.04      0.00      0.00      584      0      0
loop19     0.00      0.00      0.00      0.00      10      0      0
loop2      0.04      0.64      0.00      0.00      10461      0      0
loop3      0.00      0.07      0.00      0.00      1083      0      0
loop4      0.00      0.07      0.00      0.00      1160      0      0
loop5      0.00      0.07      0.00      0.00      1078      0      0
loop6      0.00      0.07      0.00      0.00      1073      0      0
loop7      0.00      0.02      0.00      0.00      363      0      0
loop8      0.00      0.07      0.00      0.00      1096      0      0
loop9      0.04      0.39      0.00      0.00      6272      0      0
sda       7.67      166.33      95.62      0.00      2703197      1554057      0
sr0       0.01      0.39      0.00      0.00      6276      0      0
```

```
Activities Terminal Apr 14 16:36 sarthak@sarthak-virtual-machine: ~
sda 7.67 166.33 95.62 0.00 2703197 1554057 0
sr0 0.01 0.39 0.00 0.00 6276 0 0

sarthak@sarthak-virtual-machine:~$ iostat -p
Linux 5.19.0-38-generic (sarthak-virtual-machine) 14/04/23 _x86_64_ (2 CPU)

avg-cpu:  %user   %nice %system %iowait  %steal   %idle
           0.54    0.43    0.81    0.21    0.00   98.01

Device            tps    kB_read/s    kB_wrtn/s    kB_dscd/s    kB_read    kB_wrtn    kB_dscd
loop0              0.00         0.00         0.00         0.00         17         0         0
loop1              0.00         0.02         0.00         0.00         348         0         0
loop2              0.04         0.64         0.00         0.00        10461         0         0
loop3              0.00         0.07         0.00         0.00         1083         0         0
loop4              0.00         0.07         0.00         0.00         1160         0         0
loop5              0.00         0.07         0.00         0.00         1078         0         0
loop6              0.00         0.07         0.00         0.00         1073         0         0
loop7              0.00         0.02         0.00         0.00         363         0         0
sda                7.67        166.29        95.60         0.00      2703197      1554057         0
sda1               0.00         0.01         0.00         0.00         104         0         0
sda2               0.01         0.40         0.00         0.00         6536         5         0
sda3               7.65        165.68        95.60         0.00     2693277      1554052         0
sr0                0.01         0.39         0.00         0.00         6276         0         0
loop9              0.04         0.39         0.00         0.00         6272         0         0
loop10             0.14         1.69         0.00         0.00        27512         0         0
loop8              0.00         0.07         0.00         0.00         1096         0         0
loop11             0.00         0.01         0.00         0.00         133         0         0
loop12             0.00         0.02         0.00         0.00         390         0         0
loop13             0.00         0.02         0.00         0.00         349         0         0
loop15             0.00         0.02         0.00         0.00         348         0         0
loop14             0.00         0.02         0.00         0.00         364         0         0
```

```
Activities Terminal Apr 14 16:36 sarthak@sarthak-virtual-machine: ~
sarthak@sarthak-virtual-machine:~$ iostat -N
Linux 5.19.0-38-generic (sarthak-virtual-machine) 14/04/23 _x86_64_ (2 CPU)

avg-cpu:  %user   %nice %system %iowait  %steal   %idle
           0.54    0.43    0.81    0.21    0.00   98.01

Device            tps    kB_read/s    kB_wrtn/s    kB_dscd/s    kB_read    kB_wrtn    kB_dscd
loop0              0.00         0.00         0.00         0.00         17         0         0
loop1              0.00         0.02         0.00         0.00         348         0         0
loop10             0.14         1.69         0.00         0.00        27512         0         0
loop11             0.00         0.01         0.00         0.00         133         0         0
loop12             0.00         0.02         0.00         0.00         390         0         0
loop13             0.00         0.02         0.00         0.00         349         0         0
loop14             0.00         0.02         0.00         0.00         364         0         0
loop15             0.00         0.02         0.00         0.00         348         0         0
loop16             0.12         4.48         0.00         0.00        72878         0         0
loop17             0.00         0.00         0.00         0.00         54         0         0
loop18             0.00         0.04         0.00         0.00         584         0         0
loop19             0.00         0.00         0.00         0.00         10         0         0
loop2              0.04         0.64         0.00         0.00        10461         0         0
loop3              0.00         0.07         0.00         0.00         1083         0         0
loop4              0.00         0.07         0.00         0.00         1160         0         0
loop5              0.00         0.07         0.00         0.00         1078         0         0
loop6              0.00         0.07         0.00         0.00         1073         0         0
loop7              0.00         0.02         0.00         0.00         363         0         0
loop8              0.00         0.07         0.00         0.00         1096         0         0
loop9              0.04         0.39         0.00         0.00         6272         0         0
sda                7.67        166.25        95.58         0.00     2703225      1554057         0
sr0                0.01         0.39         0.00         0.00         6276         0         0

sarthak@sarthak-virtual-machine:~$
```