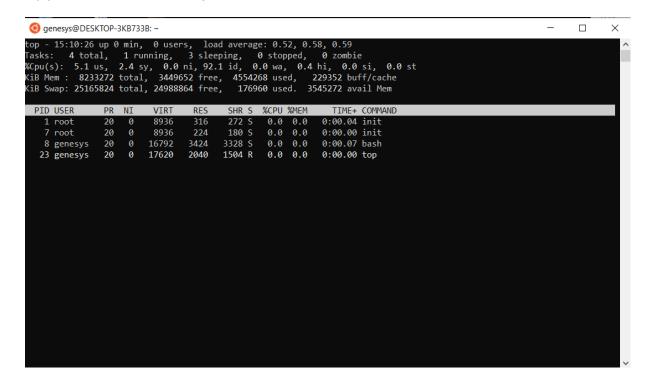
## top processz aktivitását mutatja



#### vmstat -a-m

```
@ genesys@DESKTOP-3KB733B: ~
                                                                                                                             X
    "man sudo_root" for details.
 enesys@DESKTOP-3KB733B:~$ sudo vmstat -a-m
genesys@DESKTOT JRBJJ
[sudo] password for genesys:
/mstat: invalid option --
vmstat [options] [delay [count]]
Options:
 -a, --active
-f, --forks
                         active/inactive memory
                        number of forks since boot
                        slabinfo
 -m, --slabs
                        do not redisplay header
 -n, --one-header
 -s, --stats
-d, --disk
                        event counter statistics
 -D, --disk-sum
                        summarize disk statistics
 -p, --partition <dev> partition specific statistics
 -S, --unit <char>
                        define display unit
                        wide output
 -t, --timestamp
                         show timestamp
               display this help and exit
 -V, --version output version information and exit
For more details see vmstat(8).
 enesys@DESKTOP-3KB733B:~$
```

w felhasználó név

megmutatja hogy ki van bejelentkezve a rendszerbe

```
② genesys@DESKTOP-3KB7338:~

To run a command as administrator (user "root"), use "sudo <command>".

See "man sudo_root" for details.

genesys@DESKTOP-3KB7338:~$ vmstat - [a, m] vmstat: failed to parse argument: '-' genesys@DESKTOP-3KB7338:~$ who genesys@DESKTOP-3KB7338:~$ w USER

15:11:57 up 1 min, 0 users, load average: 0.52, 0.58, 0.59

USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT genesys@DESKTOP-3KB7338:~$ __
```

#### uname

# ps – A kiválasztja az össze processzt

```
To run a command as administrator (user "root"), use "sudo <command>".

See "man sudo_root" for details.

genesys@DESKTOP-3K87338:-% vmstat - [a, m]
vmstat: failed to parse argument: '-'
genesys@DESKTOP-3K87338:-% w USER

15:11:57 up 1 min, 0 users, load average: 0.52, 0.58, 0.59

JSER TTV FROM LOGIN@ IDLE JCPU PCPU WHAT
genesys@DESKTOP-3K87338:-% uname
Linux
genesys@DESKTOP-3K87338:-% ps -A
PID TTY TIME CMD

1 ? 00:00:00 init
25 tty1 00:00:00 bash
45 tty1 00:00:00 bash
45 tty1 00:00:00 ps
genesys@DESKTOP-3K87338:--$ __
```

free megmutatja a memória és a swap által használt/ szabad területet

```
@ genesys@DESKTOP-3KB733B: ~
                                                                                                                                       П
                                                                                                                                               ×
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
enesys@DESKTOP-3KB733B:~$ vmstat - [a, m]
mstat: failed to parse argument:
genesys@DESKTOP-3KB733B:~$ who
genesys@DESKTOP-3KB733B:~$ w USER
15:11:57 up 1 min, 0 users, load average: 0.52, 0.58, 0.59
JSER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT
USER TTY
genesys@DESKTOP-3KB733B:~$ uname
inux
genesys@DESKTOP-3KB733B:~$
genesys@DESKTOP-3KB733B:~$ ps -A
 PID TTY
                      TIME CMD
                 00:00:00 init
   1 ?
   25 tty1
                 00:00:00 init
                 00:00:00 bash
   26 tty1
                00:00:00 ps
   45 tty1
 enesys@DESKTOP-3KB733B:~$ free
                                                                                    available
                                                           shared buff/cache
                            4568632
                                           3435288
                                                                                       3530908
            25165824
                             174736
                                          24991088
wap:
 enesys@DESKTOP-3KB733B:~$
```

### sar aktivitási adatok jelzésé és összegyűjtése

```
X
 ouggested packages
   lm-sensors isag
 The following NEW packages will be installed:
  libsensors4 sysstat
0 upgraded, 2 newly installed, 0 to remove and 0 not upgraded.
Need to get 323 kB of archives.
After this operation, 1305 kB of additional disk space will be used.

Do you want to continue? [Y/n] y

Get:1 http://archive.ubuntu.com/ubuntu bionic/main amd64 libsensors4 amd64 1:3.4.0-4 [28.8 kB]

Get:2 http://archive.ubuntu.com/ubuntu bionic/main amd64 sysstat amd64 11.6.1-1 [295 kB]

Fetched 323 kB in 1s (613 kB/s)
 reconfiguring packages ...
 Selecting previously unselected package libsensors4:amd64.
(Reading database ... 28645 files and directories currently installed.)
Preparing to unpack .../libsensors4_1%3a3.4.0-4_amd64.deb ...
Unpacking libsensors4:amd64 (1:3.4.0-4) ...
Selecting previously unselected package sysstat.
Preparing to unpack .../sysstat_11.6.1-1_amd64.deb ...
Unpacking sysstat (11.6.1-1) ...
Processing triggers for uneadahead (0.100.0-21) ...
Processing triggers for libc-bin (2.27-3ubuntu1) ...
Processing triggers for systemd (237-3ubuntu10.21) ...
Setting up libsensors4:amd64 (1:3.4.0-4) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
Setting up sysstat (11.6.1-1) ...
update-alternatives: using /usr/bin/sar.sysstat to provide /usr/bin/sar (sar) in auto mode
Processing triggers for libc-bin (2.27-3ubuntu1) ...
 oot@DESKTOP-3KB733B:~# sar
 inux 4.4.0-19041-Microsoft (DESKTOP-3KB733B) 02/28/21 _x86_64_
    ot@DESKTOP-3KB733B:~#
```

iostat CPU statisztika és a számítógép I/O eszközei

```
following NEW packages will be installed:
  libsensors4 sysstat
  upgraded, 2 newly installed, 0 to remove and 0 not upgraded.
 leed to get 323 kB of archives
After this operation, 1305 kB of additional disk space will be used.
 o you want to continue? [Y/n] y
 het:1 http://archive.ubuntu.com/ubuntu bionic/main amd64 libsensors4 amd64 1:3.4.0-4 [28.8 kB]
Get:2 http://archive.ubuntu.com/ubuntu bionic/main amd64 sysstat amd64 11.6.1-1 [295 kB]
Fetched 323 kB in 1s (613 kB/s)
 Preconfiguring packages .
Selecting previously unselected package libsensors4:amd64.
(Reading database ... 28645 files and directories currently installed.)
Preparing to unpack .../libsensors4_1%3a3.4.0-4_amd64.deb ...
Unpacking libsensors4:amd64 (1:3.4.0-4) ...
Unpacking libsensors4:amd64 (1:3.4.0-4) ...

Selecting previously unselected package sysstat.

Preparing to unpack .../sysstat_11.6.1-1_amd64.deb ...

Unpacking sysstat (11.6.1-1) ...

Processing triggers for ureadahead (0.100.0-21) ...

Processing triggers for libc-bin (2.27-3ubuntu1) ...

Processing triggers for systemd (237-3ubuntu10.21) ...

Setting up libsensors4:amd64 (1:3.4.0-4) ...

Processing triggers for man-db (2.8.3-2ubuntu0.1)
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...

Setting up sysstat (11.6.1-1) ...

update-alternatives: using /usr/bin/sar.sysstat to provide /usr/bin/sar (sar) in auto mode

Processing triggers for libc-bin (2.27-3ubuntu1) ...
 oot@DESKTOP-3KB733B:~# sar
Linux 4.4.0-19041-Microsoft (DESKTOP-3KB733B) 02/28/21
                                                                                                      _x86_64_
                                                                                                                               (8 CPU)
 oot@DESKTOP-3KB733B:~# iostat
 Cannot find disk data
oot@DESKTOP-3KB733B:~#
```

### mpstat több processzoros sz.gép esetén használják

```
\Box
  root@DESKTOP-3KB733B: ~
                                                                                                                                                                                                                ×
  Reading database ... 28645 files and directories currently installed.)
  Preparing to unpack .../libsensors4_1%3a3.4.0-4_amd64.deb ...
  Unpacking libsensors4:amd64 (1:3.4.0-4) ...
 Selecting previously unselected package sysstat.
Selecting previously unselected package sysstat.

Preparing to unpack .../sysstat_11.6.1-1_amd64.deb ...

Unpacking sysstat (11.6.1-1) ...

Processing triggers for ureadahead (0.100.0-21) ...

Processing triggers for libc-bin (2.27-3ubuntu1) ...

Processing triggers for systemd (237-3ubuntu10.21) ...

Setting up libsensors4:amd64 (1:3.4.0-4) ...

Processing triggers for man-db (2.8.3-2ubuntu0.1) ...

Setting up sysstat (11.6.1-1) ...

update-alternatives: using /usr/bin/sar.sysstat to provide /usr/bin/sar (sar) in auto mode Processing triggers for libc-bin (2.27-3ubuntu1) ...

root@DESKTOP-3KB733B:~# sar

Linux 4.4.0-19041-Microsoft (DESKTOP-3KB733B) 02/28/21 x86 64 (8 CPU)
 Linux 4.4.0-19041-Microsoft (DESKTOP-3KB733B) 02/28/21
                                                                                                                 x86 64
                                                                                                                                             (8 CPU)
 oot@DESKTOP-3KB733B:~# iostat
  Cannot find disk data
  oot@DESKTOP-3KB733B:~# pmstat
  Command 'pmstat' not found, but can be installed with:
apt install pcp
  oot@DESKTOP-3KB733B:~# mpstat
 Linux 4.4.0-19041-Microsoft (DESKTOP-3KB733B) 02/28/21
                                                                                                                 _x86_64_
                                                                                                                                             (8 CPU)
17:54:28
                                                                                           %irq %soft %steal %guest %gnice
                       CPU
                                   %usr %nice
                                                               %sys %iowait
                                                                                                                                                                %idle
 17:54:28
root@DESKTOP-3KB733B:~#
```

pmap processz memória használatát jelzi

```
ot@DESKTOP-3KB733B: ~
                                                                                                                                                                                      ×
                                               do not display header and footer show path in the mapping
  -p, --show-path
   -A, --range=<low>[,<high>] limit results to the given range
 -h, --help display this help and exit -V, --version output version information and exit
For more details see pmap(1).
root@DESKTOP-3KB733B:~# ls proc
ls: cannot access 'proc': No such file or directory
root@DESKTOP-3KB733B:~# /proc
 -bash: /proc: Is a directory
root@DESKTOP-3KB733B:~# ls /proc
1 473 7 893 bus cmdline filesystems loadavg mounts self sys uptime version_signature 23 474 8 92 cgroups cpuinfo interrupts meminfo net stat tty version root@DESKTOP-3KB733B:~# pmap 1
1: /init
00000000000200000
                                144K r---- init
                                4K r--- init

4K r--- init

440K r-x-- init

4K r-x-- init

24K rw--- init
 00000000000224000
 0000000000225000
 0000000000293000
 00000000000294000
                                24K rw--- [ anon ]
12K rw--- [ anon ]
12K rw--- [ anon ]
4K ---- [ anon ]
84K rw--- [ anon ]
8192K rw--- [ anon ]
 0000000000029a000
 000000000091e000
 00007f45dddc0000
 00007f45dddc1000
 00007ffff4428000
                               8192K rw---
 00007ffff50a3000
                               8936K
root@DESKTOP-3KB733B:~#
```