

A feladatban le volt írva a működésük a parancsoknak, ezért a működésükről küldök képeket.

```

jerry@it.uni-miskolc.hu - PuTTY
top - 14:57:10 up 130 days, 2:30, 2 users, load average: 0.00, 0.01, 0.05
Tasks: 3 total, 1 running, 2 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.0 us, 0.1 sy, 0.0 ni, 99.9 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 8025292 total, 104464 free, 348768 used, 7572060 buff/cache
MiB Swap: 2097148 total, 2093352 free, 3796 used, 7477672 avail Mem

  PID USER      PR  NI    VIRT    RES    SHR  S  %CPU  %MEM     TIME+ COMMAND
17562 jordan    20   0   87036   4744   3844  S   0.0   0.1   0:00.06 sshd
17563 jordan    20   0   14628   4964   2924  S   0.0   0.1   0:00.06 bash
17573 jordan    20   0   39752   3412   2936  R   0.0   0.0   0:00.14 top

```

```

ubuntu@kali:~$ sudo su -
root@kali:~# ps aux | grep sshd
r  b  swpd  free  buff  cache   si   so    bi   bo   in   cs us sy id wa st
0  0  3796 102724      0 7572072      0  0    0    0    0  0  0  0  0  0  0  0  0  0
jordan@jerry:~$ w
14:58:12 up 130 days, 2:39, 2 users, load average: 0.03, 0.03, 0.05
USER      TTY      FROM          LOGIN@   IDLE   JCPU   PCPU WHAT
jordan@jerry:~$ w jordan
14:58:40 up 130 days, 2:40, 2 users, load average: 0.02, 0.02, 0.05
USER      TTY      FROM          LOGIN@   IDLE   JCPU   PCPU WHAT
jordan@jerry:~$ who
jordan pts/0                2021-02-23 14:55 (78.108.30.72)
vincee6 pts/1                2021-01-05 19:19 (2001:738:6001:500:14)
jordan@jerry:~$ whoami
jordan
jordan@jerry:~$ uname
linux
jordan@jerry:~$ ps
PID TTY      TIME CMD
17563 pts/0    00:00:00 bash
17624 pts/0    00:00:00 ps
jordan@jerry:~$ ps -A
PID TTY      TIME CMD
17562 ?        00:00:00 sshd
17563 pts/0    00:00:00 bash
17625 pts/0    00:00:00 ps
jordan@jerry:~$ ps -AL
PID LWP TTY      TIME CMD
17562 17562 ?        00:00:00 sshd
17563 17563 pts/0    00:00:00 bash
17626 17626 pts/0    00:00:00 ps
jordan@jerry:~$ ps -ALF
UID PID PPID LWP C NLWP SZ RSS RSR STIME TTY      TIME CMD
jordan 17562 17564 17562 0 1 21759 4744 0 14:55 ?    00:00:00 sshd: jordan@pts/0
jordan 17563 17562 17563 0 1 4107 4992 1 14:55 pts/0 00:00:00 -bash
jordan 17627 17563 17627 0 1 8327 3056 3 14:55 pts/0 00:00:00 ps -ALF
jordan@jerry:~$ ps -ALFH
error: thread conflicts with forest display

Usage:
ps [options]

Try 'ps --help <simple>|list|output|threads|misc|all'
or 'ps --help <1|o|t|m|a>'
for additional help text.

For more details see ps(1).
jordan@jerry:~$ ps ax
PID TTY      STAT     TIME COMMAND
17562 ?        S         0:00 sshd: jordan@pts/0
17563 pts/0    Ss        0:00 -bash
17634 pts/0    Rr        0:00 ps ax

```

```
jerry@uni-miskolc.hu - PuTTY
jordan@jerry:~$ ps -auxf
UID          PID    PPID  FPP  C   STATE  SMP  RSS  PSR  STIME  TTY          TIME CMD
jordan    17562  17554  17562   0   1 21759  4744   0 14:55 ?        00:00:00 sshd: jordan@pts/0
jordan    17563  17562  17563   0   1 4107  4992   1 14:55 pts/0    00:00:00 -bash
jordan    17627  17563  17627   0   1 8327  3056   3 14:59 pts/0    00:00:00 ps -auxf
jordan@jerry:~$ ps -auxf
error: thread display conflicts with forest display

Usage:
ps [options]

Try 'ps --help <simple|list|output|threads|misc|all>'
or 'ps --help <sl|o|t|m|a>'
for additional help text.

For more details see ps(1).
jordan@jerry:~$ ps ax
          PID TTY          STAT       TIME COMMAND
17562 ?        S           0:00 sshd: jordan@pts/0
17563 pts/0      Ss          0:00 -bash
17634 pts/0      R+          0:00 ps ax
jordan@jerry:~$ ps aux
jordan@jerry:~$ clear
jordan@jerry:~$ ps aux
USER          PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
jordan    17562  0.0  0.0 87036  4744 ?        S    14:55   0:00 sshd: jordan@pts/0
jordan    17563  0.0  0.0 16428  4992 pts/0    Ss   14:55   0:00 -bash
jordan    17655  0.0  0.0 33312  3088 pts/0    R+   15:00   0:00 ps aux
jordan@jerry:~$ ps -ejH
          PID PGID   SID TTY          TIME CMD
17562 17554 17554 ?        00:00:00 sshd
17563 17563 17563 pts/0      00:00:00 -bash
17656 17656 17563 pts/0      00:00:00 ps
jordan@jerry:~$ ps auxf
PPID    PID    PGID   SID TTY          TPGID STAT   UID          TIME COMMAND
17554   17562 17554 17554 ?        15101 Ss          0:00 \_ -bash
17562   17563 17563 17563 pts/0      17659 Ss          0:00 \_ -bash
17563   17659 17659 17563 pts/0      17659 R+          0:00 \_ ps auxf
jordan@jerry:~$ ps -auxf
?-----sshd-----ps-tree
jordan@jerry:~$ ps -p 1286 -o comm
jordan@jerry:~$ ps -p 1286 -o comm
COMMAND
jordan@jerry:~$ ps -auxf | sort -nr -k 3 | head -5
USER          PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
jordan    17671  0.0  0.0 8308   672 pts/0    S+   15:01   0:00 \_ head -5
jordan    17670  0.0  0.0 27060  2024 pts/0    S+   15:01   0:00 \_ sort -nr -k 3
jordan    17669  0.0  0.0 33076  3076 pts/0    R+   15:01   0:00 \_ ps -auxf
jordan    17563  0.0  0.0 16428  4992 pts/0    Ss   14:55   0:00 \_ -bash
jordan@jerry:~$ free
              total        used        free      shared  buff/cache   available
Mem:           802592      34948      10336        156420    7572168     7476692
Swap:          2097148           3796       2093352
```

Aktiválja a Windowst
Aktiválja a Windows rendszert a Gépházban.

```
jerry@uni-miskolc.hu - PuTTY
avg-cpu:  %user   %nice %system %iowait  %steal   %idle
           0.09    0.00    0.08    0.00    0.00   99.82

Device:            tps    kB_read/s    kB_wrtn/s    kB_read    kB_wrtn
jordan@jerry:~$ sar
Linux 4.1.6-grsec (jerry)      02/23/2021    _x86_64_      (6 CPU)

12:00:01 AM  CPU      %user   %nice %system %iowait  %steal   %idle
12:05:01 AM  all      0.09    0.00    0.07    0.00    0.17   99.67
12:10:01 AM  all      0.09    0.00    0.07    0.00    0.15   99.69
12:15:01 AM  all      0.09    0.00    0.07    0.00    0.15   99.70
12:20:01 AM  all      0.09    0.00    0.07    0.00    0.15   99.70
12:25:01 AM  all      0.11    0.00    0.10    0.00    0.15   99.64
12:30:01 AM  all      0.09    0.00    0.07    0.00    0.13   99.72
12:35:01 AM  all      0.09    0.00    0.06    0.00    0.16   99.69
12:40:01 AM  all      0.07    0.00    0.06    0.00    0.16   99.71
01:05:01 AM  all      0.07    0.00    0.06    0.00    0.14   99.73
01:10:01 AM  all      0.05    0.00    0.05    0.00    0.16   99.75
01:15:01 AM  all      0.06    0.00    0.06    0.00    0.15   99.74
01:20:01 AM  all      0.10    0.00    0.09    0.00    0.15   99.66
01:25:01 AM  all      0.15    0.00    0.12    0.00    0.13   99.60
02:05:01 AM  all      0.16    0.00    0.12    0.00    0.13   99.59
02:10:01 AM  all      0.13    0.00    0.11    0.00    0.14   99.62
02:15:01 AM  all      0.09    0.00    0.08    0.00    0.15   99.68
02:20:01 AM  all      0.13    0.00    0.11    0.00    0.15   99.61
02:25:01 AM  all      0.04    0.00    0.04    0.00    0.15   99.76
02:30:01 AM  all      0.06    0.00    0.05    0.00    0.14   99.74
03:05:01 AM  all      0.13    0.00    0.10    0.00    0.12   99.65
03:10:01 AM  all      0.07    0.00    0.06    0.00    0.17   99.69
03:15:01 AM  all      0.04    0.00    0.04    0.00    0.63   99.30
03:20:01 AM  all      0.04    0.00    0.03    0.00    0.67   99.26
03:25:01 AM  all      0.05    0.00    0.04    0.00    0.31   99.60
03:30:01 AM  all      0.05    0.00    0.04    0.00    0.17   99.74
04:05:01 AM  all      0.08    0.00    0.07    0.00    0.17   99.68
04:10:01 AM  all      0.11    0.00    0.09    0.00    0.15   99.66
04:15:01 AM  all      0.14    0.00    0.11    0.00    0.13   99.63
04:20:01 AM  all      0.14    0.00    0.11    0.00    0.14   99.61
04:25:01 AM  all      0.15    0.00    0.10    0.00    0.14   99.61
04:30:01 AM  all      0.14    0.00    0.11    0.00    0.13   99.62
04:35:01 AM  all      0.11    0.00    0.08    0.00    0.16   99.64
04:40:01 AM  all      0.09    0.00    0.07    0.00    0.25   99.59
04:45:01 AM  all      0.10    0.00    0.08    0.00    0.46   99.37
04:50:01 AM  all      0.12    0.00    0.09    0.00    0.12   99.67
04:55:01 AM  all      0.15    0.00    0.12    0.00    0.14   99.59
05:00:01 AM  all      0.18    0.00    0.15    0.00    0.13   99.54
05:05:01 AM  all      0.10    0.00    0.08    0.00    0.13   99.68
05:10:01 AM  all      0.10    0.00    0.09    0.00    0.14   99.67
05:15:01 AM  all      0.10    0.00    0.08    0.00    0.15   99.66
05:20:01 AM  all      0.23    0.00    0.17    0.00    0.14   99.46
05:25:01 AM  all      0.15    0.00    0.12    0.00    0.14   99.59
05:30:01 AM  all      0.17    0.00    0.13    0.00    0.13   99.57
05:35:01 AM  all      0.17    0.00    0.13    0.00    0.14   99.56
```

Aktiválja a Windowst
Aktiválja a Windows rendszert a Gépházban.

```
jenyitani-miskolc.hu - PuTTY
jordan@jerry:~$ mpstat
Linux 4.1.6-grsec (jerry)      02/23/2021      _x86_64_      (6 CPU)

03:02:47 PM CPU    %usr   %nice    %ys %iowait  %irq   %soft  %steal   %guest   %gnice   %idle
03:02:47 PM all    0.09    0.00    0.00  0.08    0.00    0.00    0.00    0.00    0.00    99.82
jordan@jerry:~$ pmap

Usage:
pmap [options] PID [PID ...]

Options:
-X, --extended          show details
-X                      show even more details
-XX                     WARNING: format changes according to /proc/PID/mmap
                        show everything the kernel provides
-C, --read-rc            read the default rc
-C, --read-rc-from=<file> read the rc from file
-N, --create-rc          create new default rc
-N, --create-rc-to=<file> create new rc to file
                        NOTE: pid arguments are not allowed with -n, -N
-d, --device            show the device format
-q, --quiet             do not display header and footer
-p, --show-path         show path in the mapping
-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).
jordan@jerry:~$
```

Aktiválja a Windowst
Aktiválja a Windows rendszert a Gépházban.