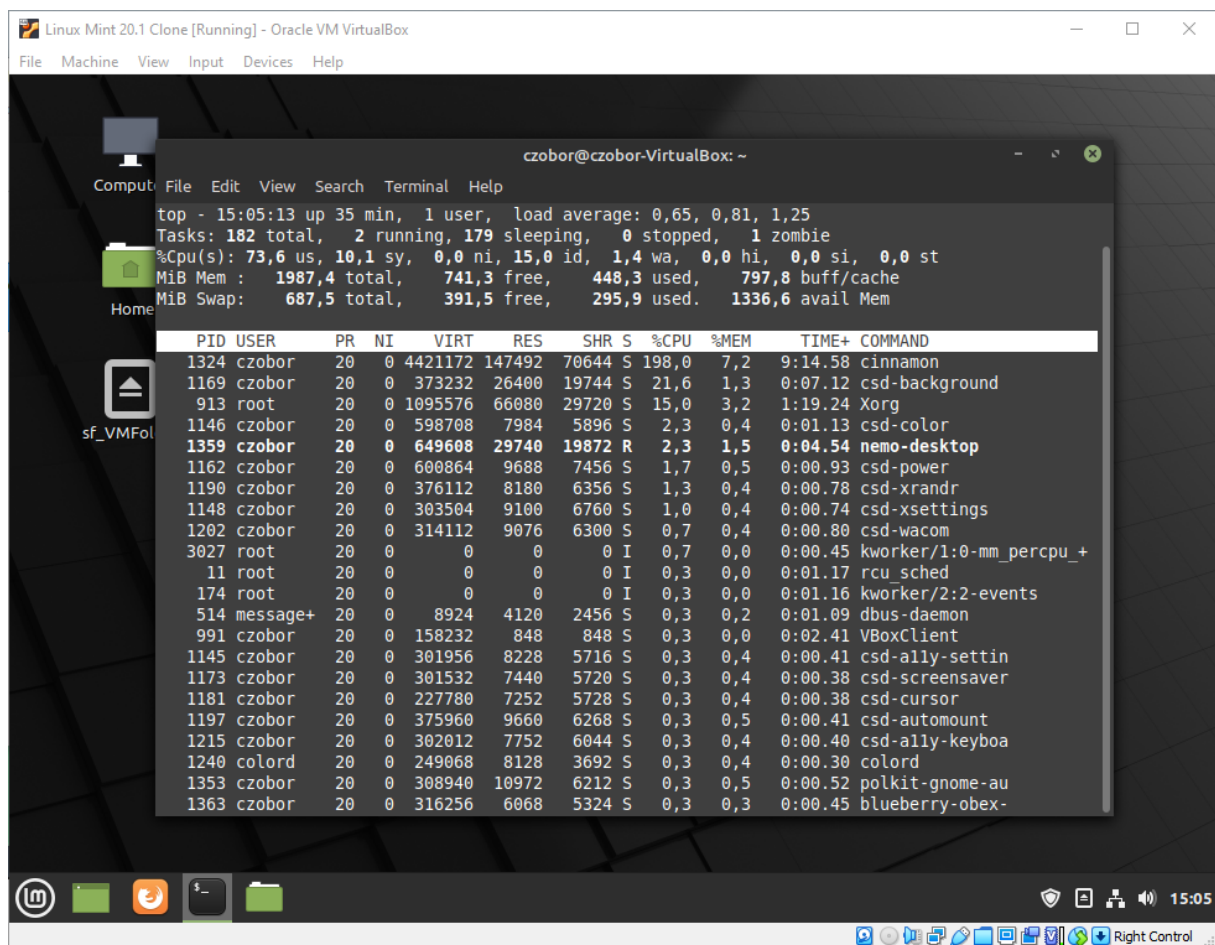


Linux OS-hez hasznos monitorozó parancsok

top:

Valós idejűleg jelentést készít az aktuálisan futó processzekről, megtudhatjuk például ebből a jelentésből, hogy hogyan oszlik el a CPU vagy RAM a sok procesz között.



```
Linux Mint 20.1 Clone [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

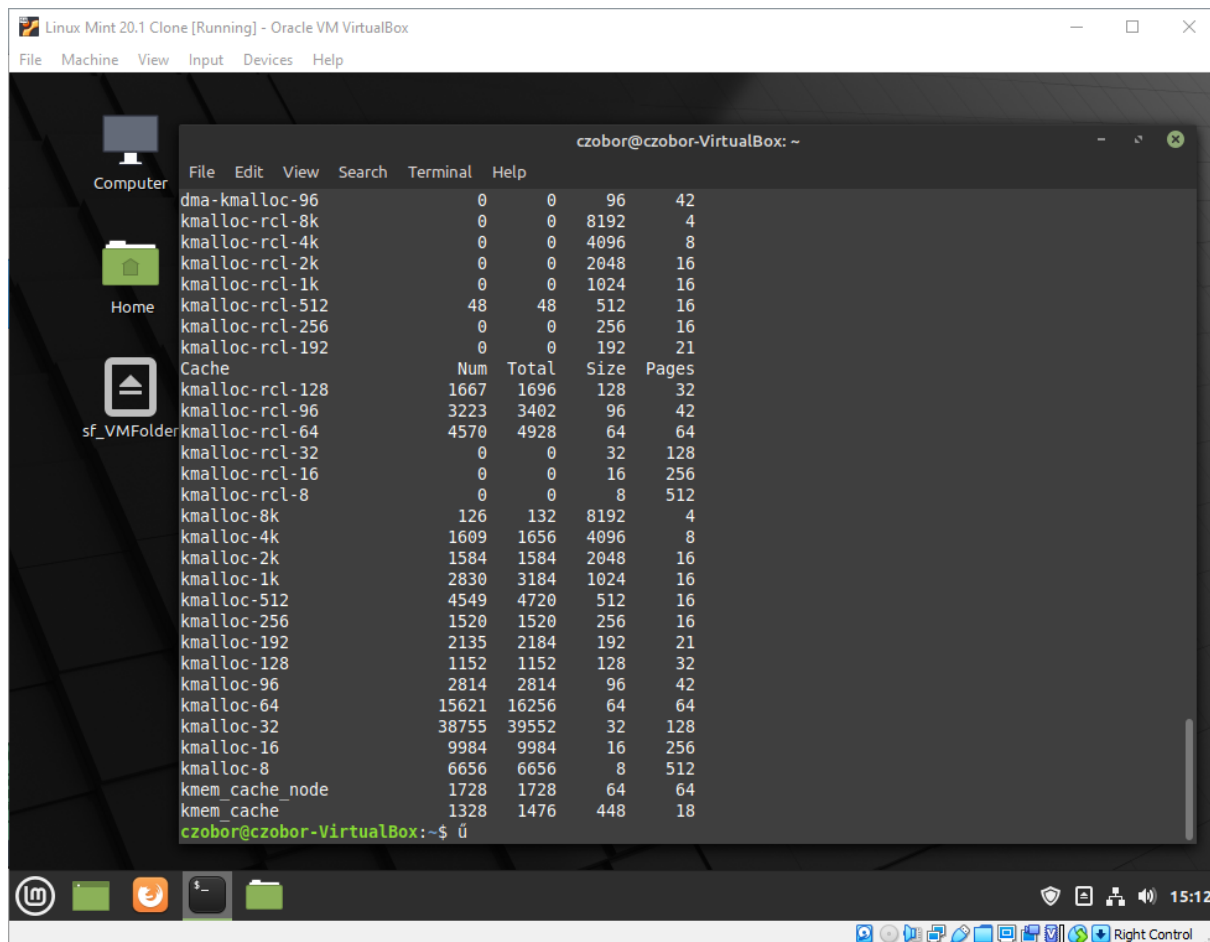
czobor@czobor-VirtualBox: ~
Comput File Edit View Search Terminal Help

top - 15:05:13 up 35 min, 1 user, load average: 0,65, 0,81, 1,25
Tasks: 182 total, 2 running, 179 sleeping, 0 stopped, 1 zombie
%Cpu(s): 73,6 us, 10,1 sy, 0,0 ni, 15,0 id, 1,4 wa, 0,0 hi, 0,0 si, 0,0 st
MiB Mem : 1987,4 total, 741,3 free, 448,3 used, 797,8 buff/cache
MiB Swap: 687,5 total, 391,5 free, 295,9 used. 1336,6 avail Mem

  PID USER      PR  NI  VIRT  RES  SHR  S  %CPU  %MEM    TIME+  COMMAND
 1324 czobor    20   0 4421172 147492 70644 S 198,0  7,2   9:14.58 cinnamon
 1169 czobor    20   0 373232 26400 19744 S 21,6  1,3   0:07.12 csd-background
  913 root      20   0 1095576 66080 29720 S 15,0  3,2   1:19.24 Xorg
 1146 czobor    20   0 598708 7984 5896 S 2,3  0,4   0:01.13 csd-color
 1359 czobor    20   0 649608 29740 19872 R 2,3  1,5   0:04.54 nemo-desktop
 1162 czobor    20   0 600864 9688 7456 S 1,7  0,5   0:00.93 csd-power
 1190 czobor    20   0 376112 8180 6356 S 1,3  0,4   0:00.78 csd-xrandr
 1148 czobor    20   0 303504 9100 6760 S 1,0  0,4   0:00.74 csd-xsettings
 1202 czobor    20   0 314112 9076 6300 S 0,7  0,4   0:00.80 csd-wacom
 3027 root      20   0 0 0 0 I 0,7  0,0   0:00.45 kworker/1:0-mm_percpu_+
  11 root      20   0 0 0 0 I 0,3  0,0   0:01.17 rcu_sched
  174 root      20   0 0 0 0 I 0,3  0,0   0:01.16 kworker/2:2-events
  514 message+ 20   0 8924 4120 2456 S 0,3  0,2   0:01.09 dbus-daemon
  991 czobor    20   0 158232 848 848 S 0,3  0,0   0:02.41 VBoxClient
 1145 czobor    20   0 301956 8228 5716 S 0,3  0,4   0:00.41 csd-ally-settin
 1173 czobor    20   0 301532 7440 5720 S 0,3  0,4   0:00.38 csd-screensaver
 1181 czobor    20   0 227780 7252 5728 S 0,3  0,4   0:00.38 csd-cursor
 1197 czobor    20   0 375960 9660 6268 S 0,3  0,5   0:00.41 csd-automount
 1215 czobor    20   0 302012 7752 6044 S 0,3  0,4   0:00.40 csd-ally-keyboa
 1240 colord    20   0 249068 8128 3692 S 0,3  0,4   0:00.30 colord
 1353 czobor    20   0 308940 10972 6212 S 0,3  0,5   0:00.52 polkit-gnome-au
 1363 czobor    20   0 316256 6068 5324 S 0,3  0,3   0:00.45 blueberry-obex-
```

vmstat:

A rendszerről nyújt hasznos információkat.



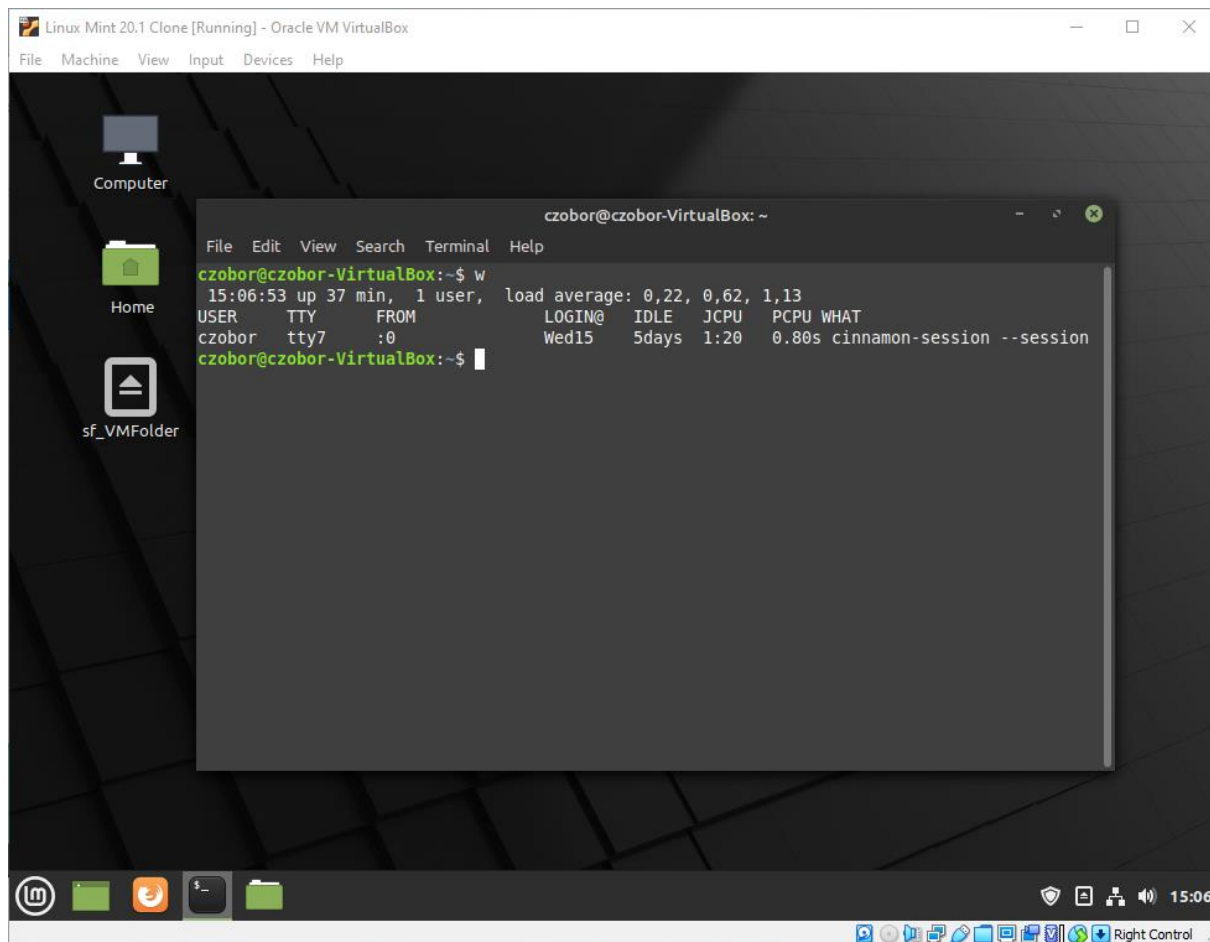
The screenshot shows a Linux Mint 20.1 Clone running in Oracle VM VirtualBox. A terminal window is open, displaying the output of the `vmstat` command. The output is a table with columns for device names, Num, Total, Size, and Pages. The data is as follows:

	Num	Total	Size	Pages
dma-kmalloc-96	0	0	96	42
kmalloc-rcl-8k	0	0	8192	4
kmalloc-rcl-4k	0	0	4096	8
kmalloc-rcl-2k	0	0	2048	16
kmalloc-rcl-1k	0	0	1024	16
kmalloc-rcl-512	48	48	512	16
kmalloc-rcl-256	0	0	256	16
kmalloc-rcl-192	0	0	192	21
Cache				
kmalloc-rcl-128	1667	1696	128	32
kmalloc-rcl-96	3223	3402	96	42
kmalloc-rcl-64	4570	4928	64	64
kmalloc-rcl-32	0	0	32	128
kmalloc-rcl-16	0	0	16	256
kmalloc-rcl-8	0	0	8	512
kmalloc-8k	126	132	8192	4
kmalloc-4k	1609	1656	4096	8
kmalloc-2k	1584	1584	2048	16
kmalloc-1k	2830	3184	1024	16
kmalloc-512	4549	4720	512	16
kmalloc-256	1520	1520	256	16
kmalloc-192	2135	2184	192	21
kmalloc-128	1152	1152	128	32
kmalloc-96	2814	2814	96	42
kmalloc-64	15621	16256	64	64
kmalloc-32	38755	39552	32	128
kmalloc-16	9984	9984	16	256
kmalloc-8	6656	6656	8	512
kmem_cache_node	1728	1728	64	64
kmem_cache	1328	1476	448	18

The terminal prompt is `czobor@czobor-VirtualBox:~$` and the command entered is `vmstat`.

W:

Memutatja melyik felhasználó használja éppen a rendszert.



The screenshot shows a Linux Mint 20.1 desktop environment running in Oracle VM VirtualBox. A terminal window is open, displaying the output of the 'w' command. The output shows the system load averages and active users.

```
Linux Mint 20.1 Clone [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

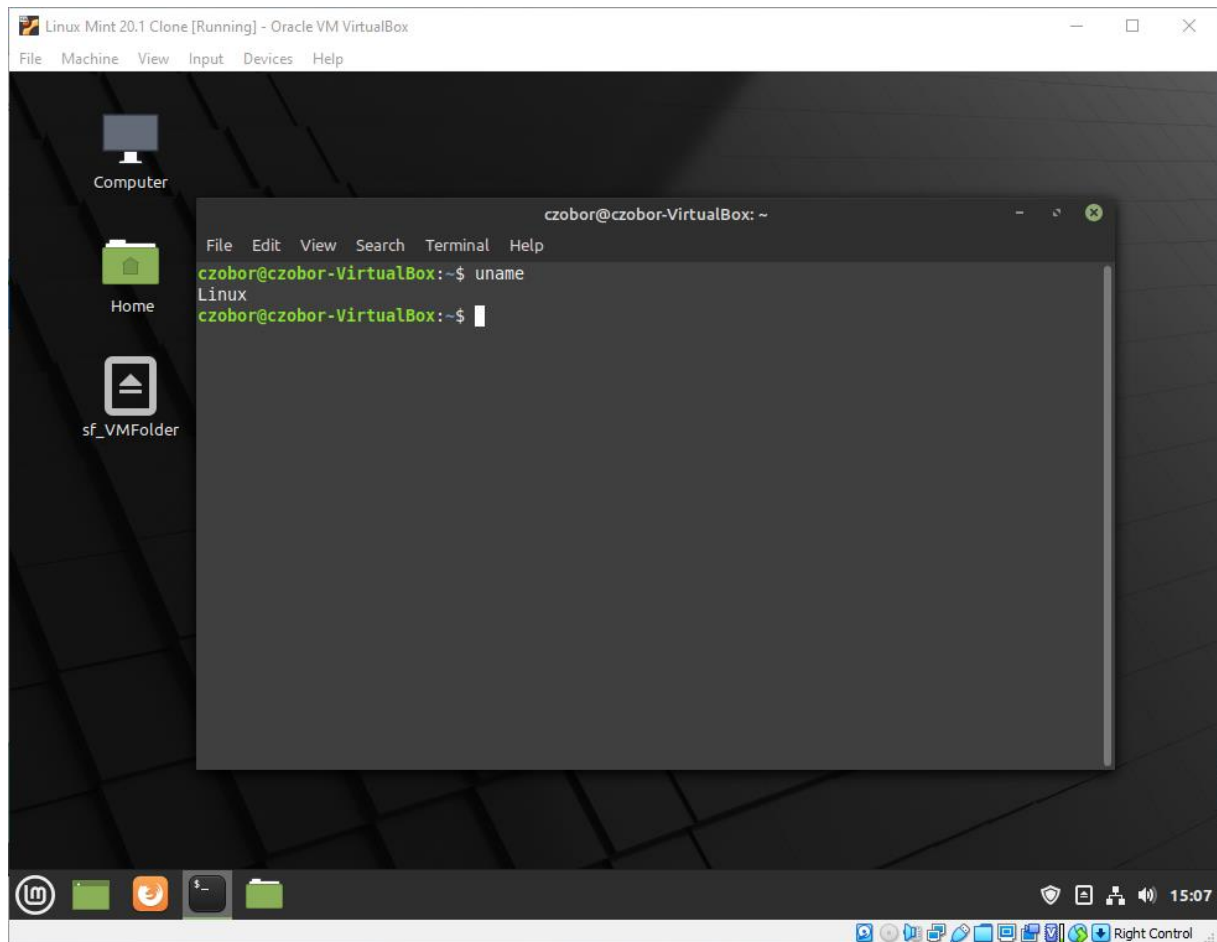
Computer
Home
sf_VMFold

czobor@czobor-VirtualBox: ~
File Edit View Search Terminal Help
czobor@czobor-VirtualBox:~$ w
15:06:53 up 37 min, 1 user, load average: 0,22, 0,62, 1,13
USER      TTY      FROM          LOGIN@  IDLE   JCPU   PCPU WHAT
czobor    tty7     :0            Wed15   5days 1:20   0.80s cinnamon-session --session
czobor@czobor-VirtualBox:~$
```

The desktop environment includes icons for 'Computer', 'Home', and 'sf_VMFold'. The taskbar at the bottom shows the Linux Mint logo, a green square icon, an orange icon, a terminal icon, and a folder icon. The system tray on the right shows the date and time as 15:06.

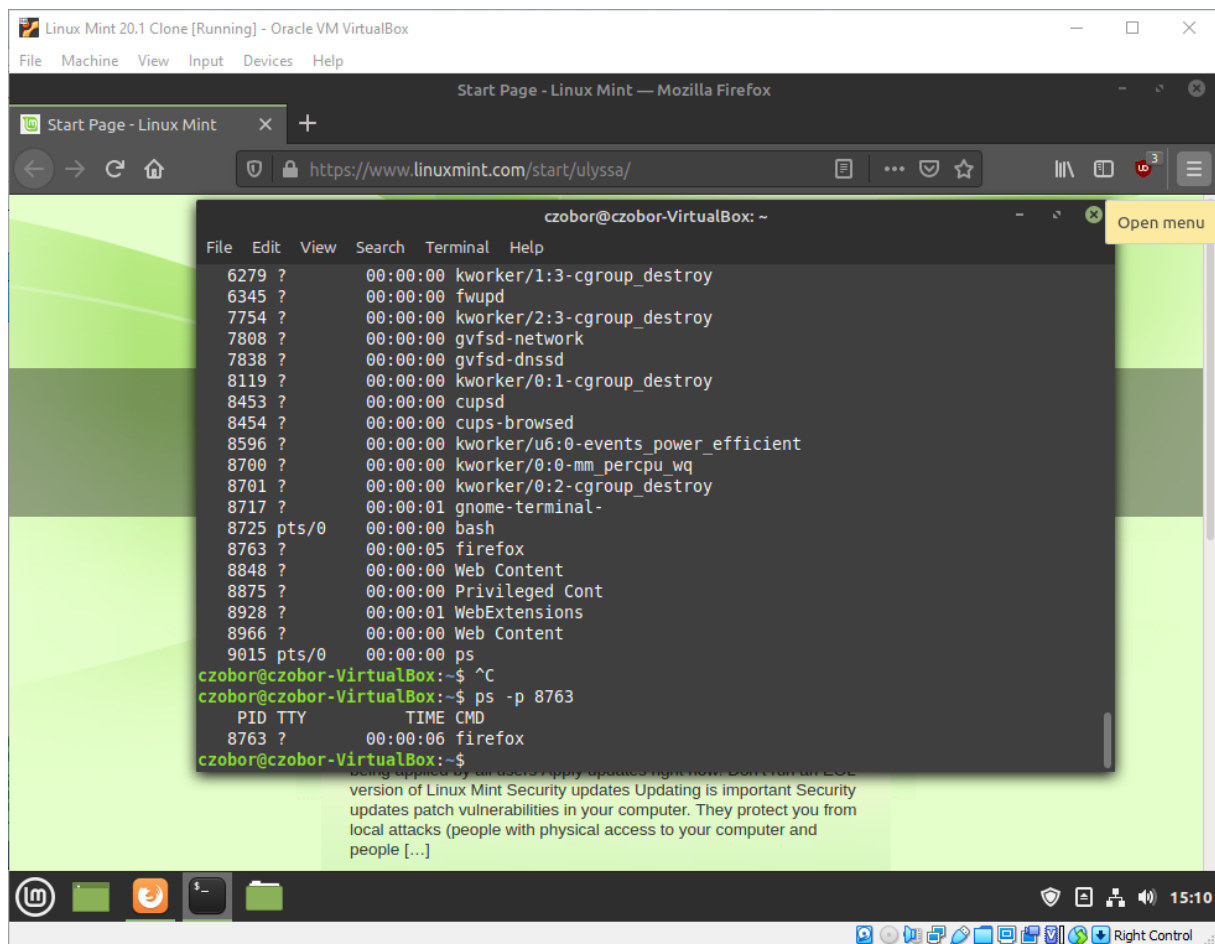
uname:

Szerver futásának kezdő ideje.



ps:

Jelentést készít a processzekről, leírja a processzek PID-jét, nevét.(Firefox processz-t vizsgálva)



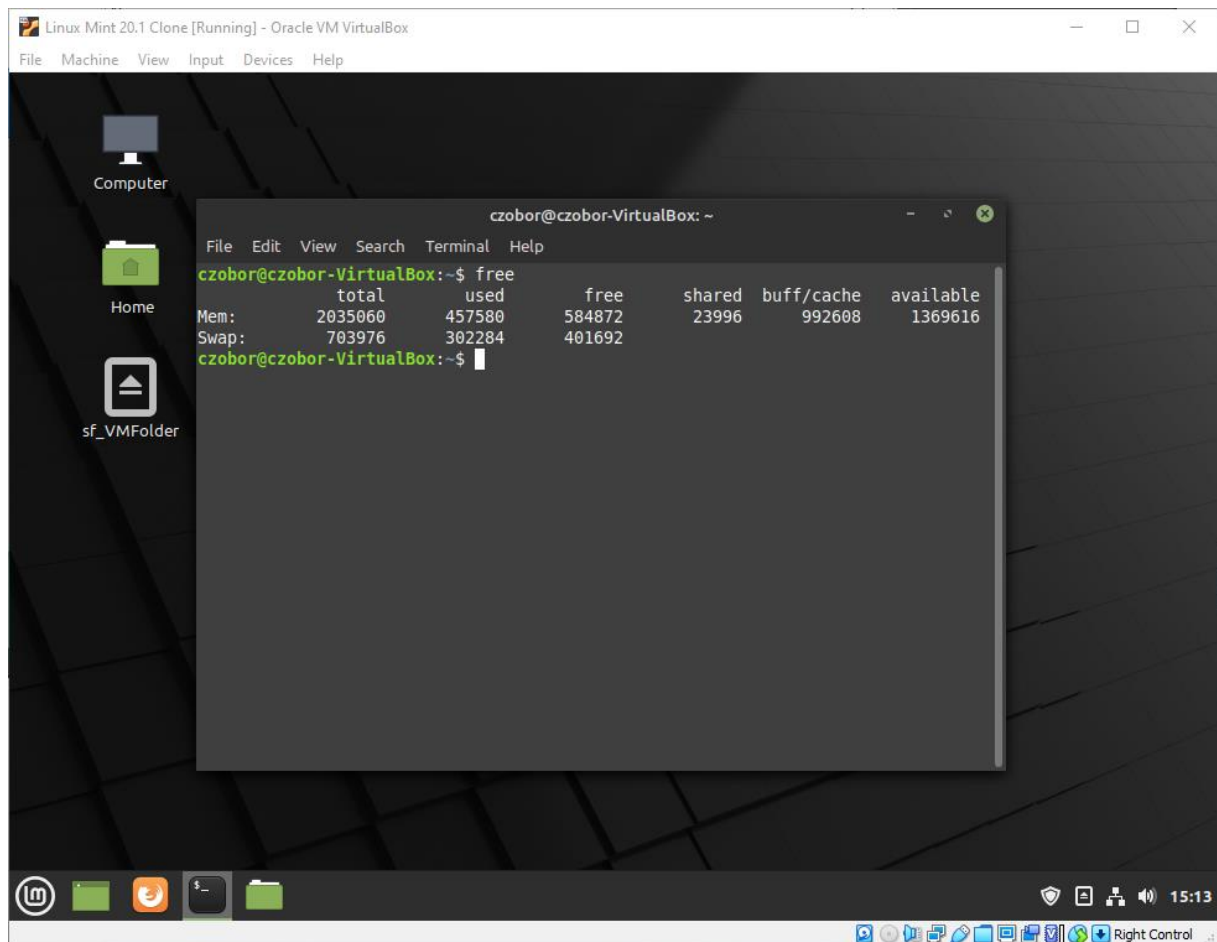
The screenshot shows a Linux Mint 20.1 Clone running in an Oracle VM VirtualBox. A Mozilla Firefox browser window is open, displaying the Linux Mint start page. A terminal window is overlaid on the browser, showing the output of the 'ps' command. The terminal title is 'czobor@czobor-VirtualBox: ~'. The output lists various system processes and their details. The user then runs 'ps -p 8763' to get more details about the Firefox process (PID 8763).

```
czobor@czobor-VirtualBox: ~  
File Edit View Search Terminal Help  
6279 ?      00:00:00 kworker/1:3-cgroup_destroy  
6345 ?      00:00:00 fwupd  
7754 ?      00:00:00 kworker/2:3-cgroup_destroy  
7808 ?      00:00:00 gvfsd-network  
7838 ?      00:00:00 gvfsd-dnssd  
8119 ?      00:00:00 kworker/0:1-cgroup_destroy  
8453 ?      00:00:00 cupsd  
8454 ?      00:00:00 cups-browsed  
8596 ?      00:00:00 kworker/u6:0-events_power_efficient  
8700 ?      00:00:00 kworker/0:0-mm_percpu_wq  
8701 ?      00:00:00 kworker/0:2-cgroup_destroy  
8717 ?      00:00:01 gnome-terminal-  
8725 pts/0    00:00:00 bash  
8763 ?      00:00:05 firefox  
8848 ?      00:00:00 Web Content  
8875 ?      00:00:00 Privileged Cont  
8928 ?      00:00:01 WebExtensions  
8966 ?      00:00:00 Web Content  
9015 pts/0    00:00:00 ps  
czobor@czobor-VirtualBox:~$ ^C  
czobor@czobor-VirtualBox:~$ ps -p 8763  
PID TTY          TIME CMD  
8763 ?      00:00:06 firefox  
czobor@czobor-VirtualBox:~$
```

being applied by distrosec / apply updates right now. Don't run an EOL version of Linux Mint Security updates Updating is important Security updates patch vulnerabilities in your computer. They protect you from local attacks (people with physical access to your computer and people [...])

free:

Szabad területeket írja ki, pufferek szabad pufferek számát.



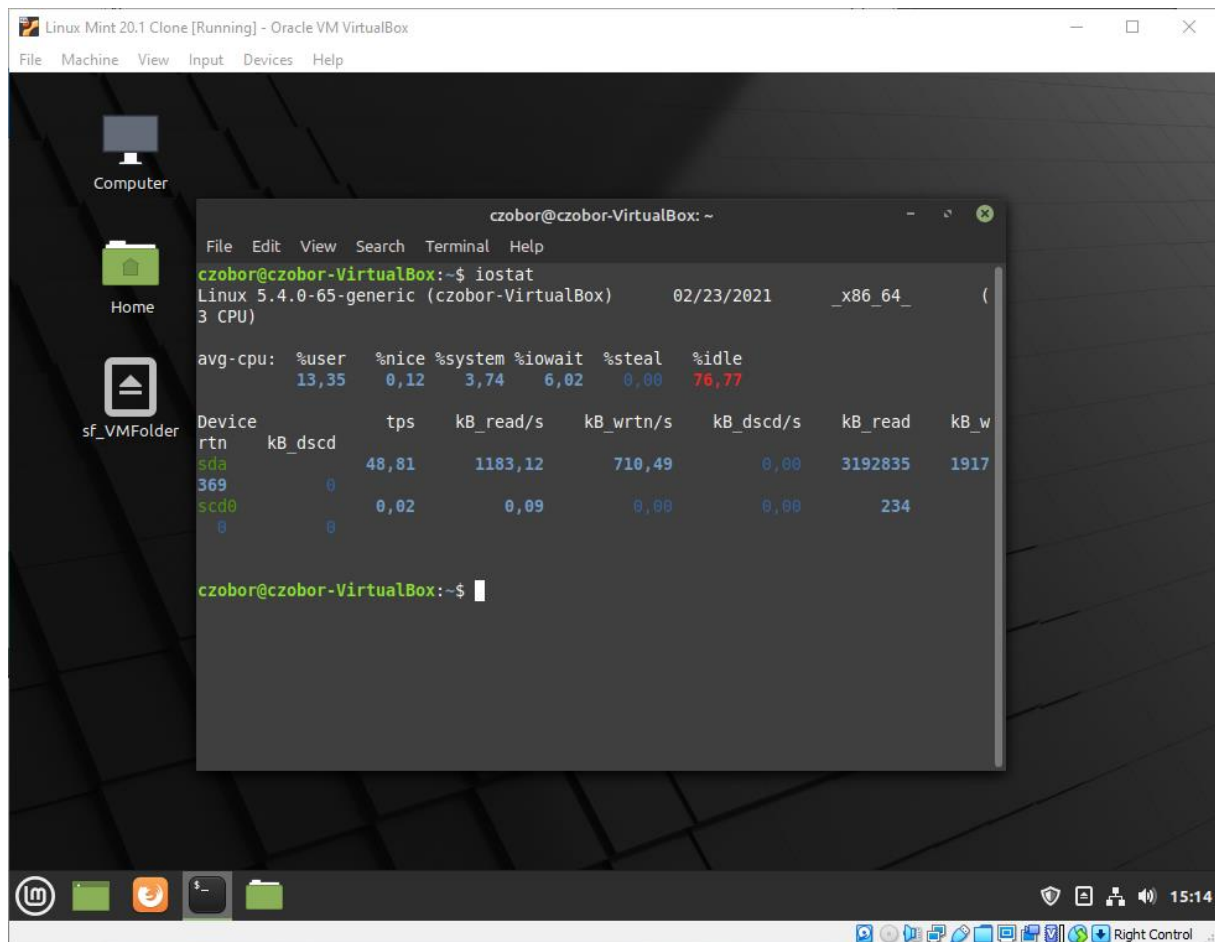
The screenshot shows a Linux Mint 20.1 desktop environment running in an Oracle VM VirtualBox. A terminal window is open, displaying the output of the 'free' command. The desktop background is dark with a grid pattern. On the left side, there are icons for 'Computer', 'Home', and 'sf_VMFolder'. The terminal window has a title bar that reads 'czobor@czobor-VirtualBox: ~'. The output of the 'free' command is as follows:

```
czobor@czobor-VirtualBox:~$ free
              total        used          free      shared  buff/cache   available
Mem:      2035060      457580          584872         23996         992608      1369616
Swap:      703976       302284          401692
```

The terminal window also shows the prompt 'czobor@czobor-VirtualBox:~\$' at the bottom. The desktop environment includes a taskbar at the bottom with various application icons and a system tray on the right showing the time as 15:13.

iostat:

CPU statisztikái.

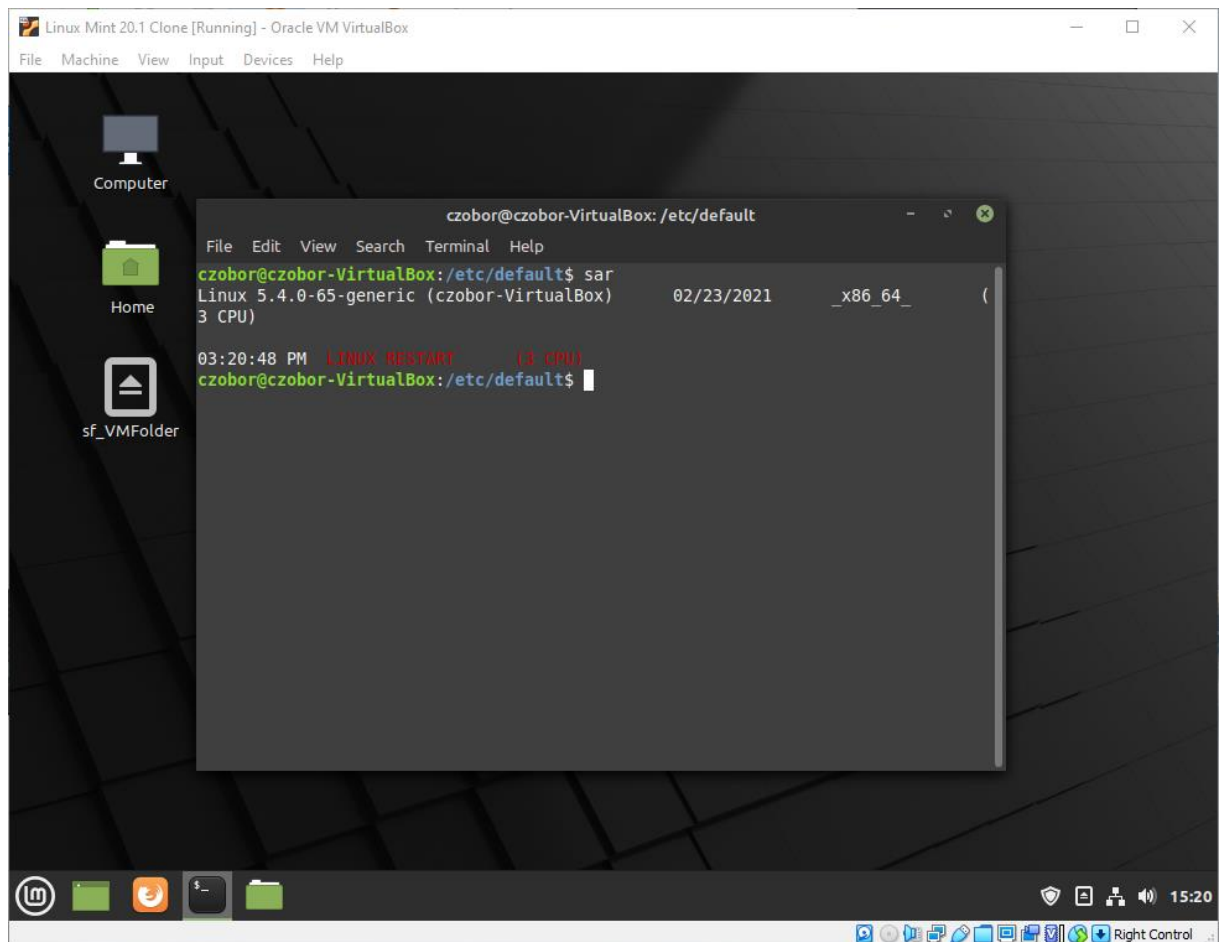


The screenshot shows a Linux Mint 20.1 desktop environment running in Oracle VM VirtualBox. A terminal window is open, displaying the output of the `iostat` command. The output includes CPU statistics and disk I/O statistics for `sda` and `scd0`.

```
czobor@czobor-VirtualBox: ~  
File Edit View Search Terminal Help  
czobor@czobor-VirtualBox:~$ iostat  
Linux 5.4.0-65-generic (czobor-VirtualBox) 02/23/2021 _x86_64_  
3 CPU)  
  
avg-cpu:  %user   %nice %system %iowait  %steal   %idle  
           13,35    0,12   3,74    6,02    0,00   76,77  
  
Device    kB_dscd    tps    kB_read/s    kB_wrtn/s    kB_dscd/s    kB_read    kB_w  
rtn  
sda      48,81    1183,12    710,49      0,00    3192835    1917  
369      0  
scd0     0,02     0,09     0,00      0,00      234  
0      0  
  
czobor@czobor-VirtualBox:~$
```

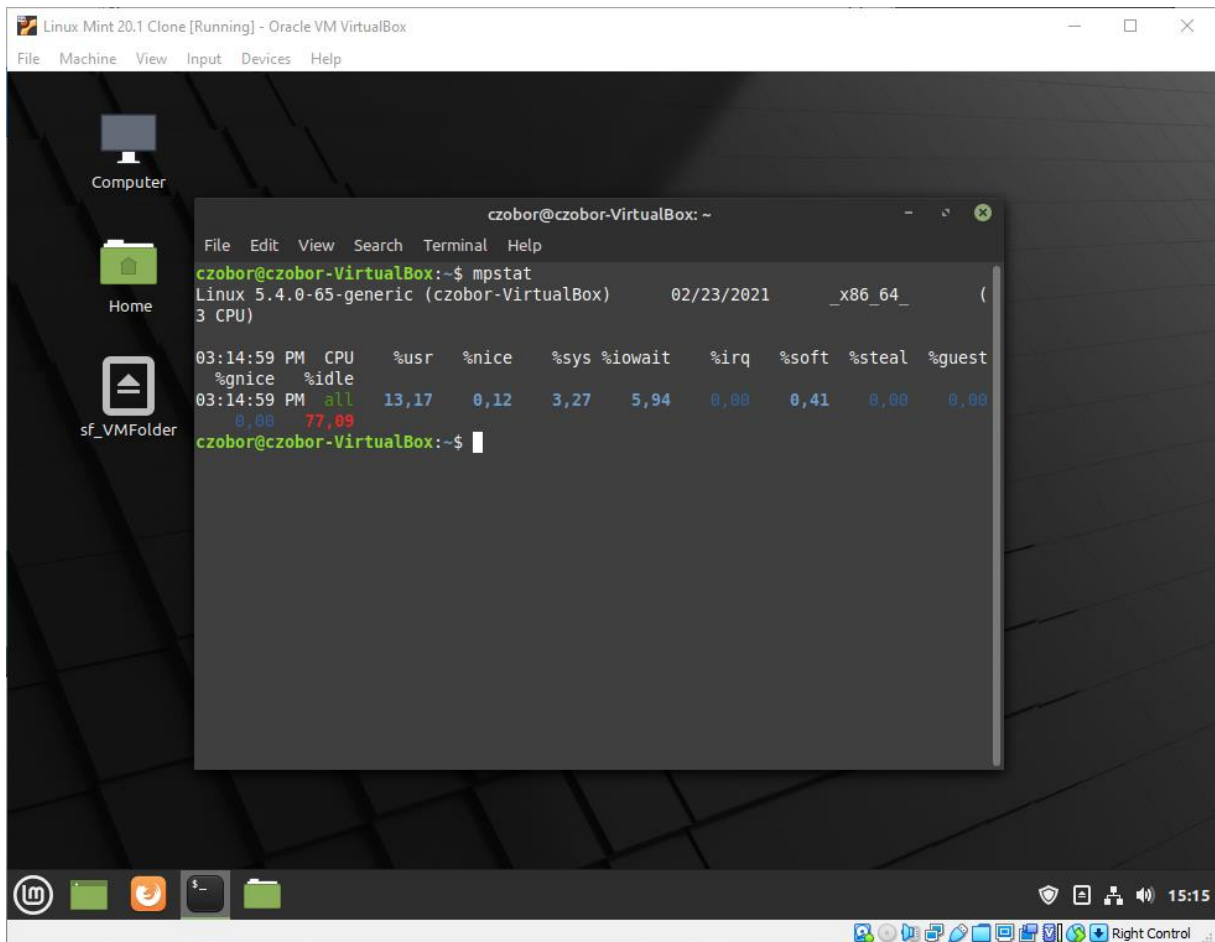
sar:

Aktivitási adatok jelzése.



mpstat:

Több processzorról képes jelentés készíteni.



```
Linux Mint 20.1 Clone [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

Computer
Home
sf_VMFoldr

czobor@czobor-VirtualBox: ~
File Edit View Search Terminal Help
czobor@czobor-VirtualBox:~$ mpstat
Linux 5.4.0-65-generic (czobor-VirtualBox) 02/23/2021 _x86_64_ (
3 CPU)
03:14:59 PM CPU %usr %nice %sys %iowait %irq %soft %steal %guest
%gnice %idle
03:14:59 PM all 13,17 0,12 3,27 5,94 0,00 0,41 0,00 0,00
0,00 77,09
czobor@czobor-VirtualBox:~$
```

pmap:

Processz memória használatát jelzi. (Firefox processz-t vizsgálva)

