Operációs rendszerek BSc

4. Gyak.

2022. 03. 02.

Készítette:
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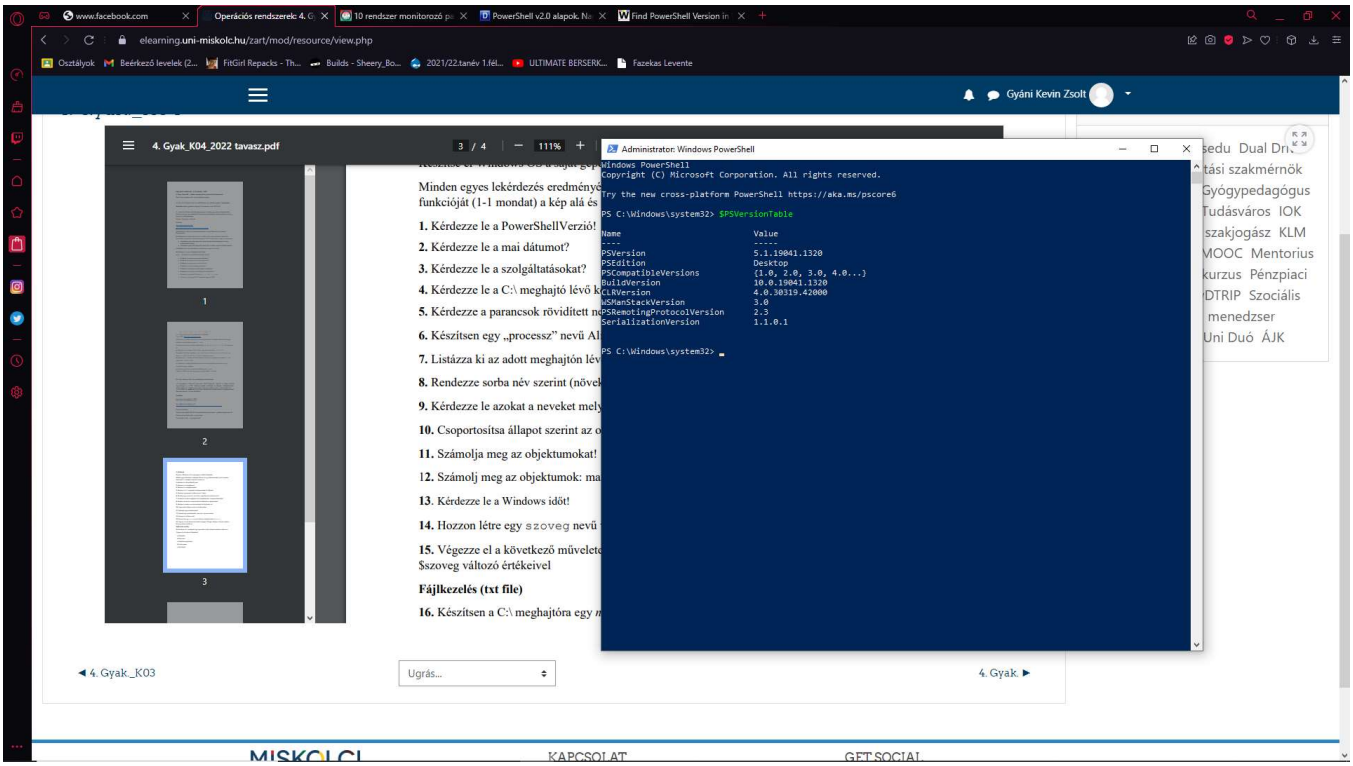
Szak Programtervező informatikus
Neptunkód CBOYZF

Miskolc, 2022

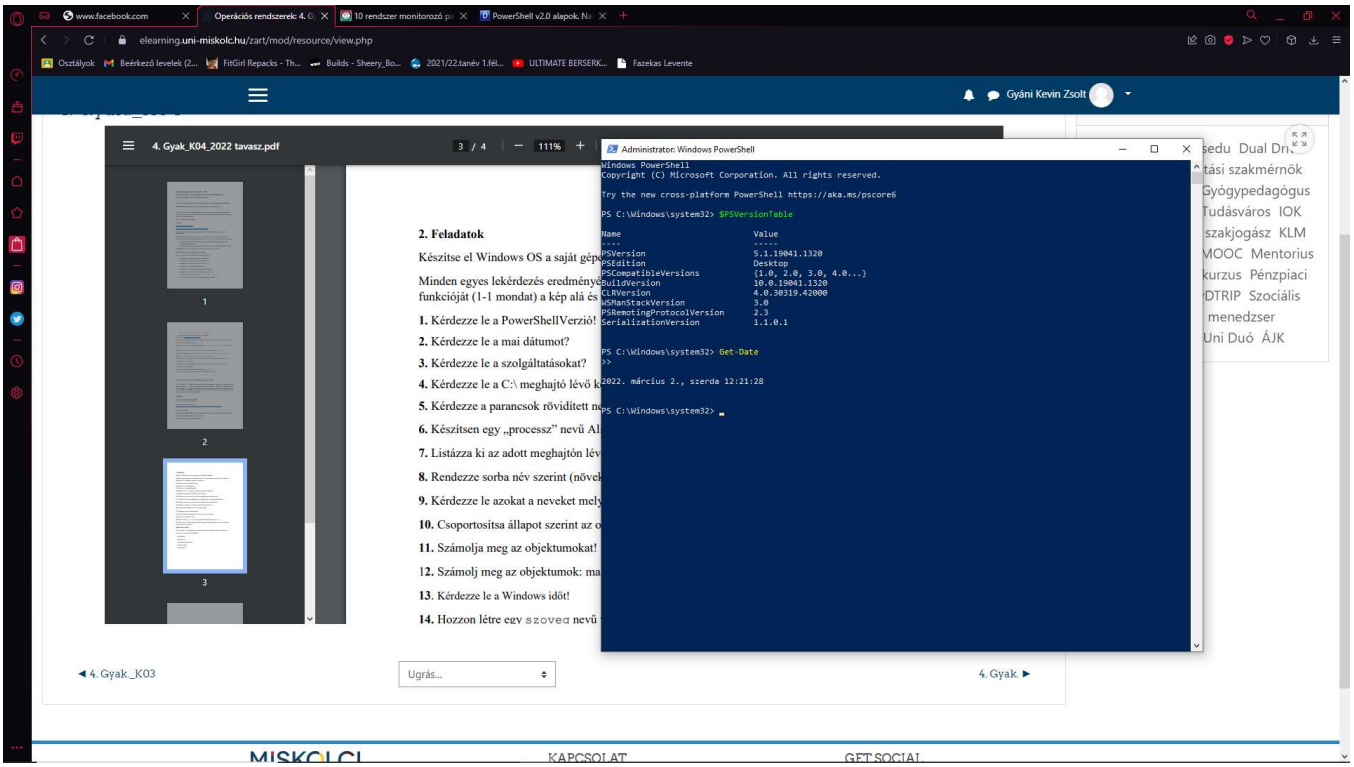
II.téma windows OS

1.feladat – lekérdeztem a powershell verzióját a Psversiontable parancsal



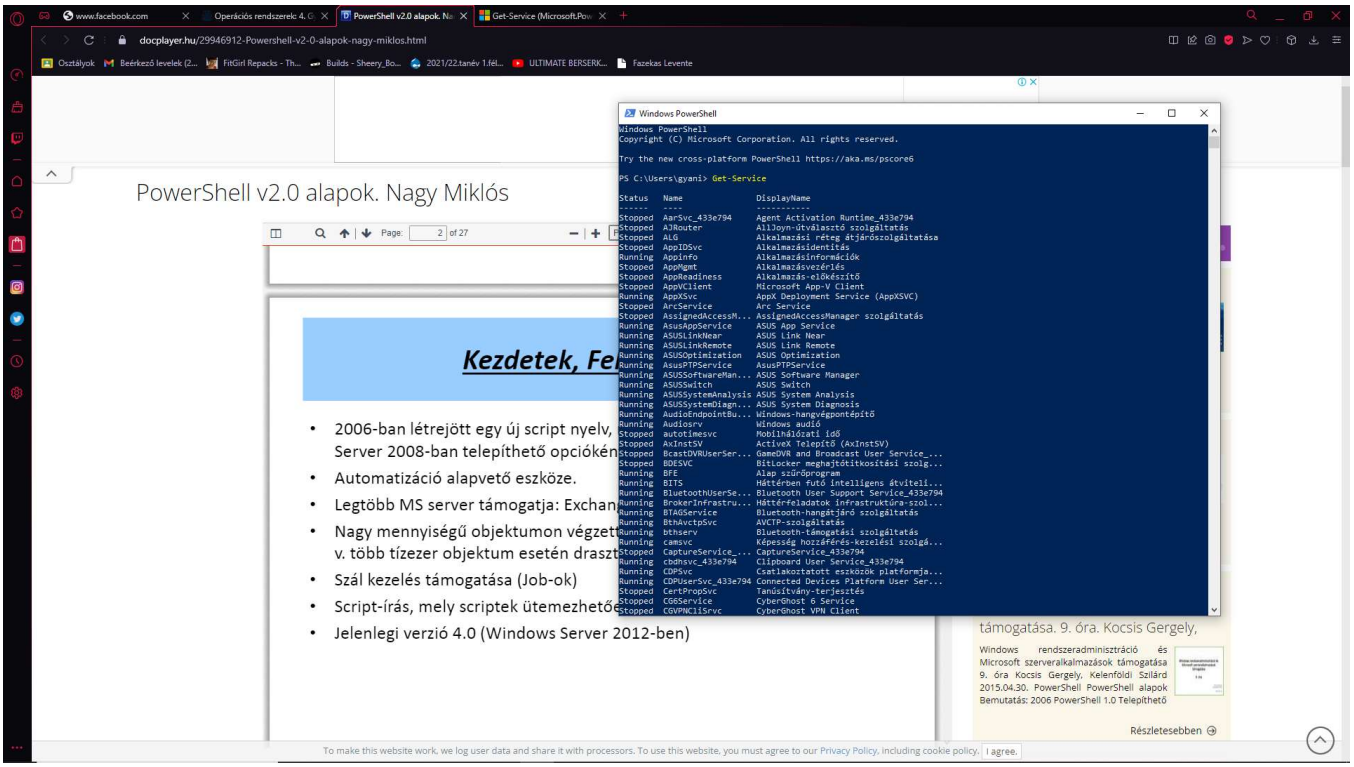
2.feladat

Get-Date parancsal lekérdeztem a mai dátumot

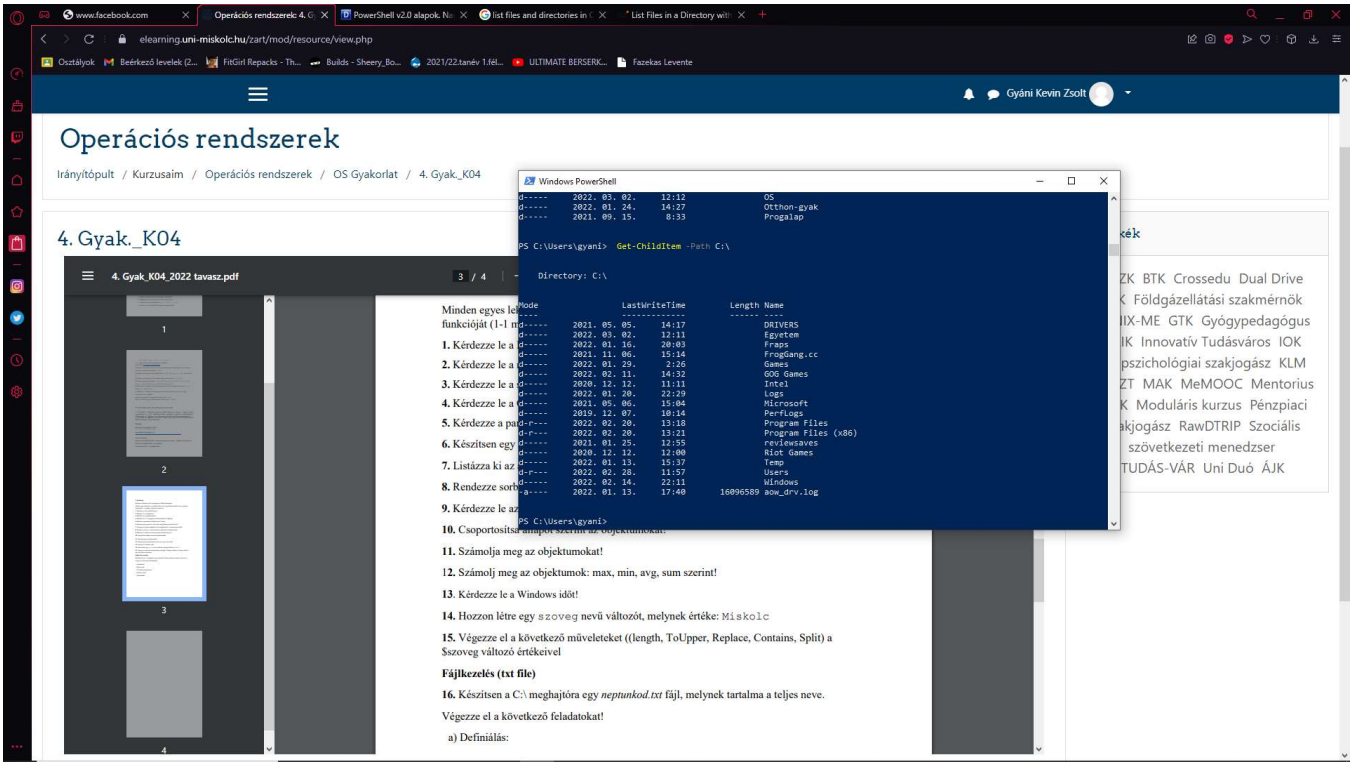


3.feladat.

Get services parancsal lekértem a futó szolgáltatásokat

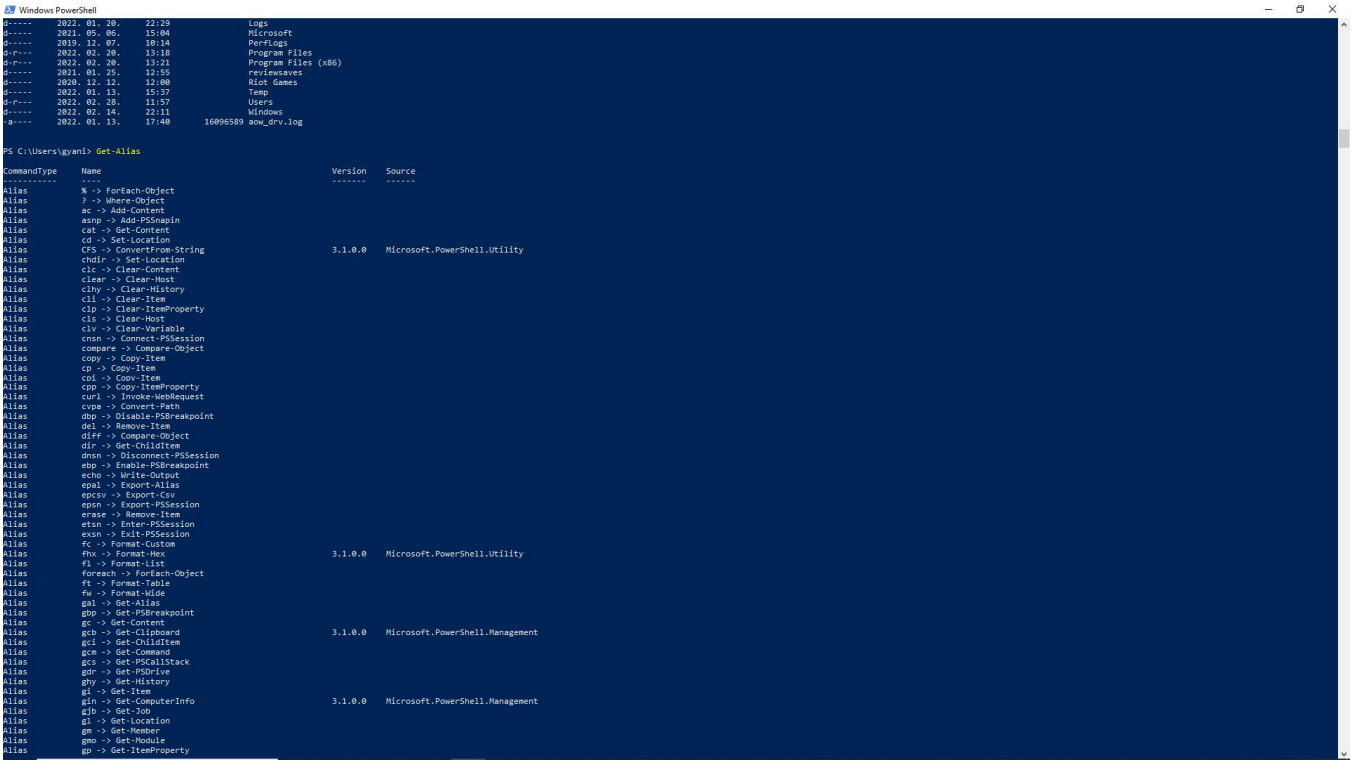


4.feladat, GetChild item parancsal lekérdeztem a megadott



5.feladat

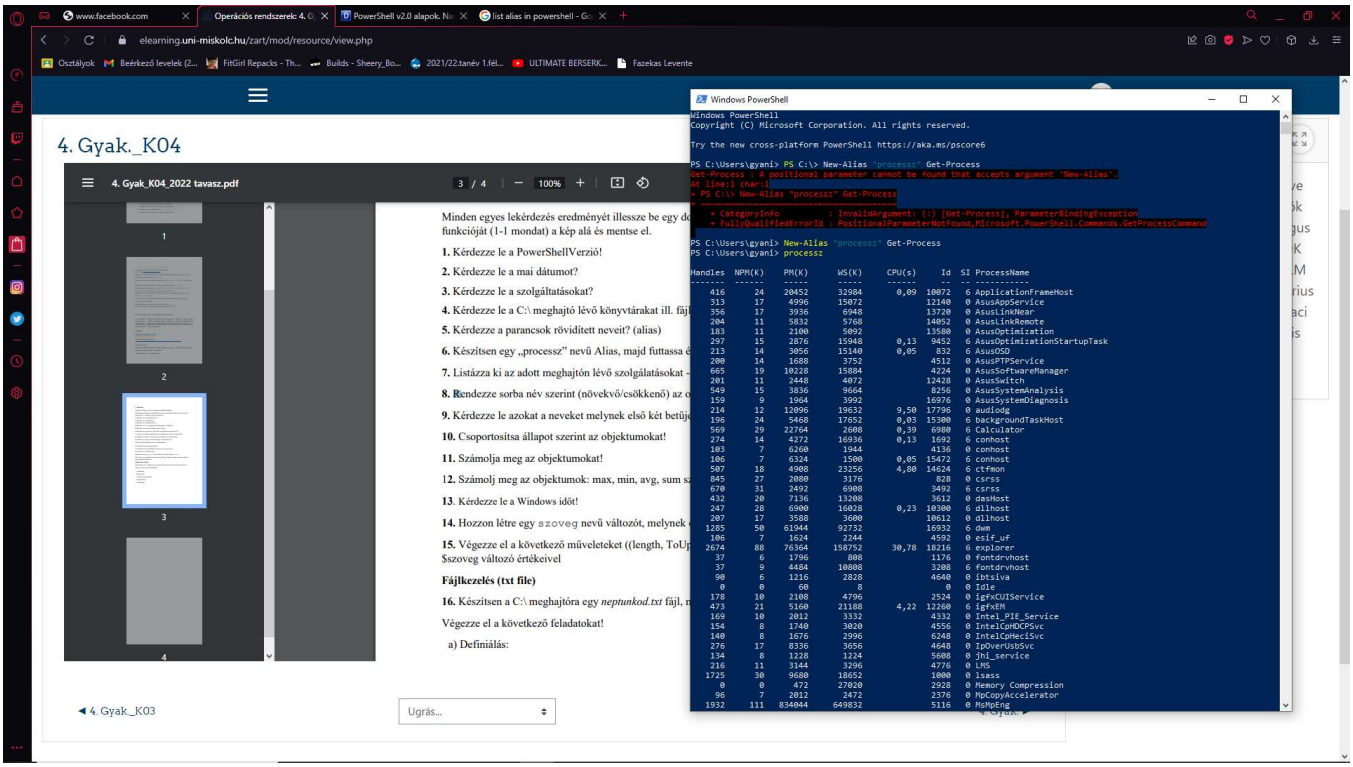
Get alias parancsal lekérdeztem a praancsok rövidített enveit



```
Windows PowerShell
d-----     2022. 01. 20.     22:29                Logs
d-----     2021. 05. 06.     15:04                Microsoft
d-----     2019. 12. 07.     10:14                PerfLogs
d-r---     2022. 02. 20.     13:18                Program Files
d-r---     2022. 02. 20.     13:21                Program Files (x86)
d-----     2021. 01. 25.     12:55                reviewsaves
d-----     2020. 12. 12.     12:00                Riot Games
d-----     2022. 01. 13.     15:57                Temp
d-r---     2022. 02. 28.     11:57                Users
d-----     2022. 02. 14.     22:11                Windows
-a----     2022. 01. 13.     17:40       16096589 aow_drv.log


PS C:\Users\gyani> Get-Alias

CommandType     Name                                               Version    Source
-----------     ----                                               -------    ------
Alias           % -> ForEach-Object
Alias           ? -> Where-Object
Alias           ac -> Add-Content
Alias           asnp -> Add-PSSnapin
Alias           cat -> Get-Content
Alias           cd -> Set-Location
Alias           CFS -> ConvertFrom-String                          3.1.0.0    Microsoft.PowerShell.Utility
Alias           chdir -> Set-Location
Alias           clc -> Clear-Content
Alias           clear -> Clear-Host
Alias           clhy -> Clear-History
Alias           cli -> Clear-Item
Alias           clp -> Clear-ItemProperty
Alias           cls -> Clear-Host
Alias           clv -> Clear-Variable
Alias           cnsn -> Connect-PSSession
Alias           compare -> Compare-Object
Alias           copy -> Copy-Item
Alias           cp -> Copy-Item
Alias           cpi -> Copy-Item
Alias           cpp -> Copy-ItemProperty
Alias           curl -> Invoke-WebRequest
Alias           cvpa -> Convert-Path
Alias           dbp -> Disable-PSBreakpoint
Alias           del -> Remove-Item
Alias           diff -> Compare-Object
Alias           dir -> Get-ChildItem
Alias           dnsn -> Disconnect-PSSession
Alias           ebp -> Enable-PSBreakpoint
Alias           echo -> Write-Output
Alias           epal -> Export-Alias
Alias           epcsv -> Export-Csv
Alias           epsn -> Export-PSSession
Alias           erase -> Remove-Item
Alias           etsn -> Enter-PSSession
Alias           exsn -> Exit-PSSession
Alias           fc -> Format-Custom
Alias           fhx -> Format-Hex                                  3.1.0.0    Microsoft.PowerShell.Utility
Alias           fl -> Format-List
Alias           foreach -> ForEach-Object
Alias           ft -> Format-Table
Alias           fw -> Format-Wide
Alias           gal -> Get-Alias
Alias           gbp -> Get-PSBreakpoint
Alias           gc -> Get-Content
Alias           gcb -> Get-Clipboard                               3.1.0.0    Microsoft.PowerShell.Management
Alias           gci -> Get-ChildItem
Alias           gcm -> Get-Command
Alias           gcs -> Get-PSCallStack
Alias           gdr -> Get-PSDrive
Alias           ghy -> Get-History
Alias           gi -> Get-Item
Alias           gin -> Get-ComputerInfo                            3.1.0.0    Microsoft.PowerShell.Management
Alias           gjb -> Get-Job
Alias           gl -> Get-Location
Alias           gm -> Get-Member
Alias           gmo -> Get-Module
Alias           gp -> Get-ItemProperty
```

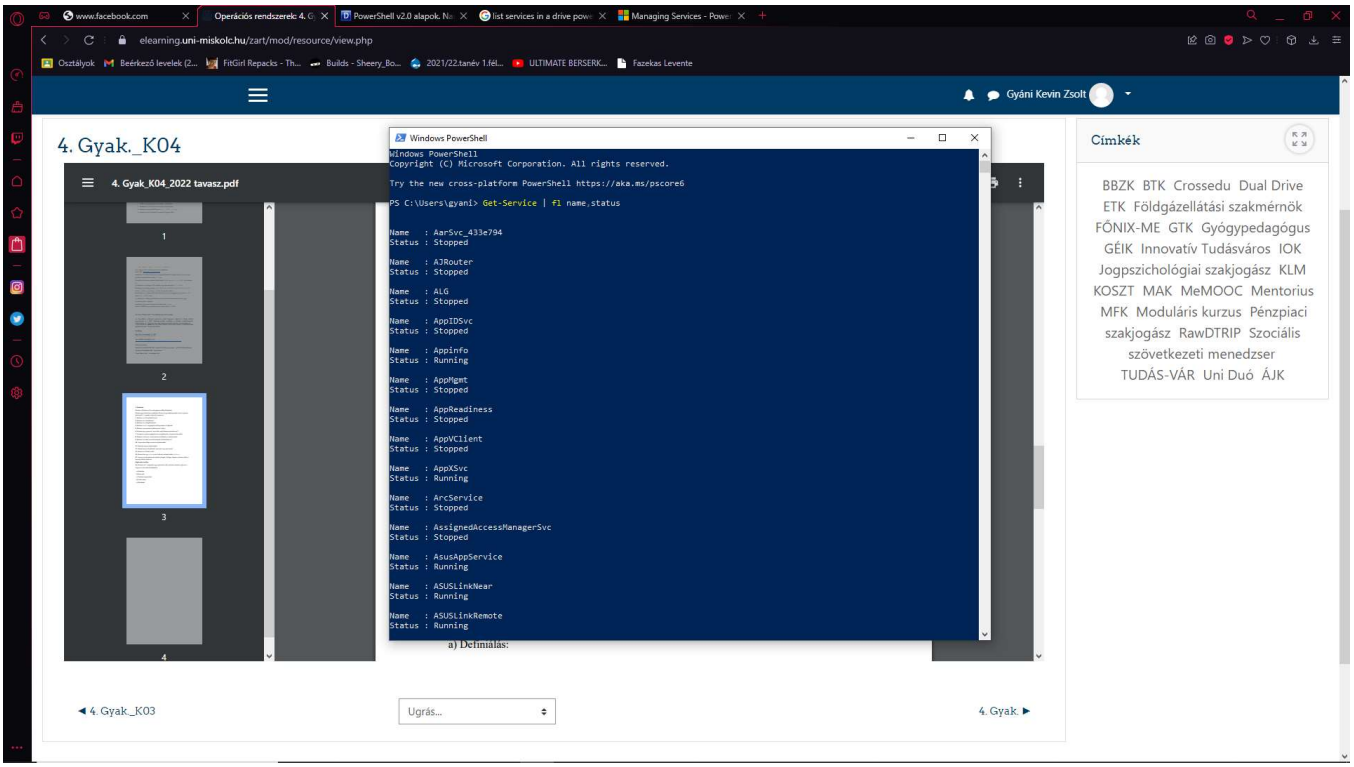
6.feladat

New alias parancsal létrehoztam és get processz parancsal lekrédeztem



7. feladat

Get service-al lerkédzetem ft name,status parancsal formáztam



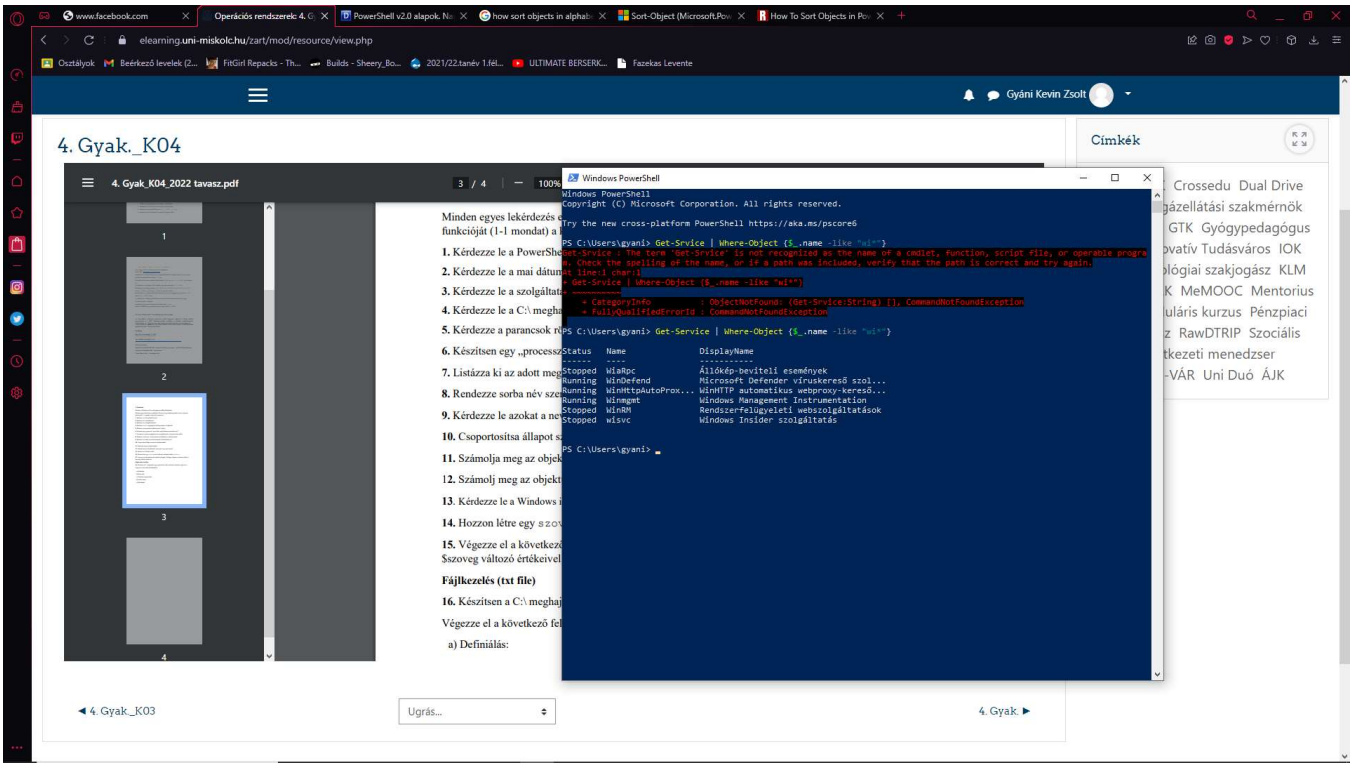
8.feladat

Get-Processel kilistáztam ,Sort-objectel sorba rendeztem

```
Windows PowerShell
Name   : WpnService
Status : Running

Name   : WpnUserService_433e794
Status : Running

Name   : wscsvc
Status : Running

Name   : WSearch
Status : Running

Name   : wuauserv
Status : Stopped

Name   : WwanSvc
Status : Stopped

Name   : XblAuthManager
Status : Stopped

Name   : XblGameSave
Status : Stopped

Name   : XboxGipSvc
Status : Stopped

Name   : XboxNetApiSvc
Status : Stopped

Name   : zksvc
Status : Stopped


PS C:\Users\gyani> Sort-Object
PS C:\Users\gyani> Get-Process | Sort-Object

Handles  NPM(K)    PM(K)      WS(K)     CPU(s)     Id  SI ProcessName
-------  ------    -----      -----     ------     --  -- -----------
    416      24    20452      32984       0,09  10072   6 ApplicationFrameHost
    313      17     5824      15988             12140   0 AsusAppService
    354      17     4272       6948             13720   0 AsusLinkNear
    204      11     5832       5768             14052   0 AsusLinkRemote
    183      11     2100       5092             13580   0 AsusOptimization
    297      15     2876      15948       0,13   9452   6 AsusOptimizationStartupTask
    213      14     3056      15140       0,05    832   6 AsusOSD
    200      14     1688       3752              4512   0 AsusPTPService
    666      19    10420      15804              4224   0 AsusSoftwareManager
    201      11     2448       4072             12428   0 AsusSwitch
    551      15     3964       9784              8256   0 AsusSystemAnalysis
    159       9     1964       3992             16976   0 AsusSystemDiagnosis
    606      15    20436      28192      10,75  17796   0 audiodg
    569      29    22764       2452       0,39   6980   6 Calculator
    106       7     6324       1336       0,06  15472   6 conhost
    274      14     4172      16896       0,44   7224   6 conhost
    103       7     6232       1932              4136   0 conhost
    511      18     4872      23248       5,52  14624   6 ctfmon
    686      32     2544       6964              3492   6 csrss
    835      27     2080       3172               828   0 csrss
    440      20     7508      13628              3612   0 dasHost
    207      17     3584       3600             10612   0 dllhost
    256      28     7048      16080       0,27  10300   6 dllhost
   1218      51    61460      91964             16932   6 dwm
    106       7     1624       2244              4592   0 esif_uf
   2604      88    76792     159848      32,75  18216   6 explorer
     37       8     4344      10436              3208   6 fontdrvhost
     37       6     1796        808              1176   0 fontdrvhost
     90       6     1216       2828              4648   0 ibtsiva
      0       0       60          8                 0   0 Idle
    178      10     2104       4796              2524   0 igfxCUIService
    473      21     5160      21188       4,22  12268   6 igfxEM
    169      10     2012       3332              4332   0 Intel_PIE_Service
    154       8     1740       3020              4556   0 IntelCpHDCPSvc
    140       8     1676       2996              6248   0 IntelCpHeciSvc
```

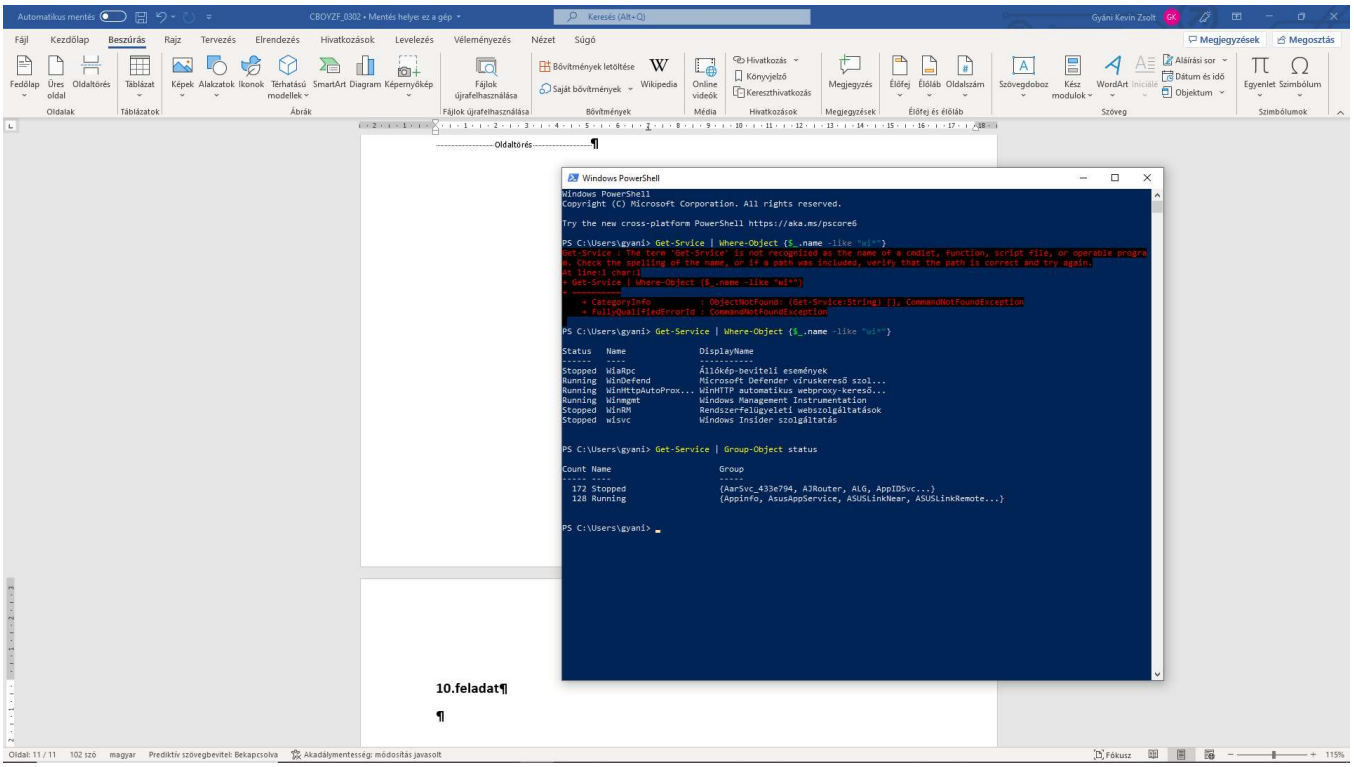
9.feladat

Like parancsal kérdezmte le azokat a serviceket amiknek az első kettő betűje ”wi”



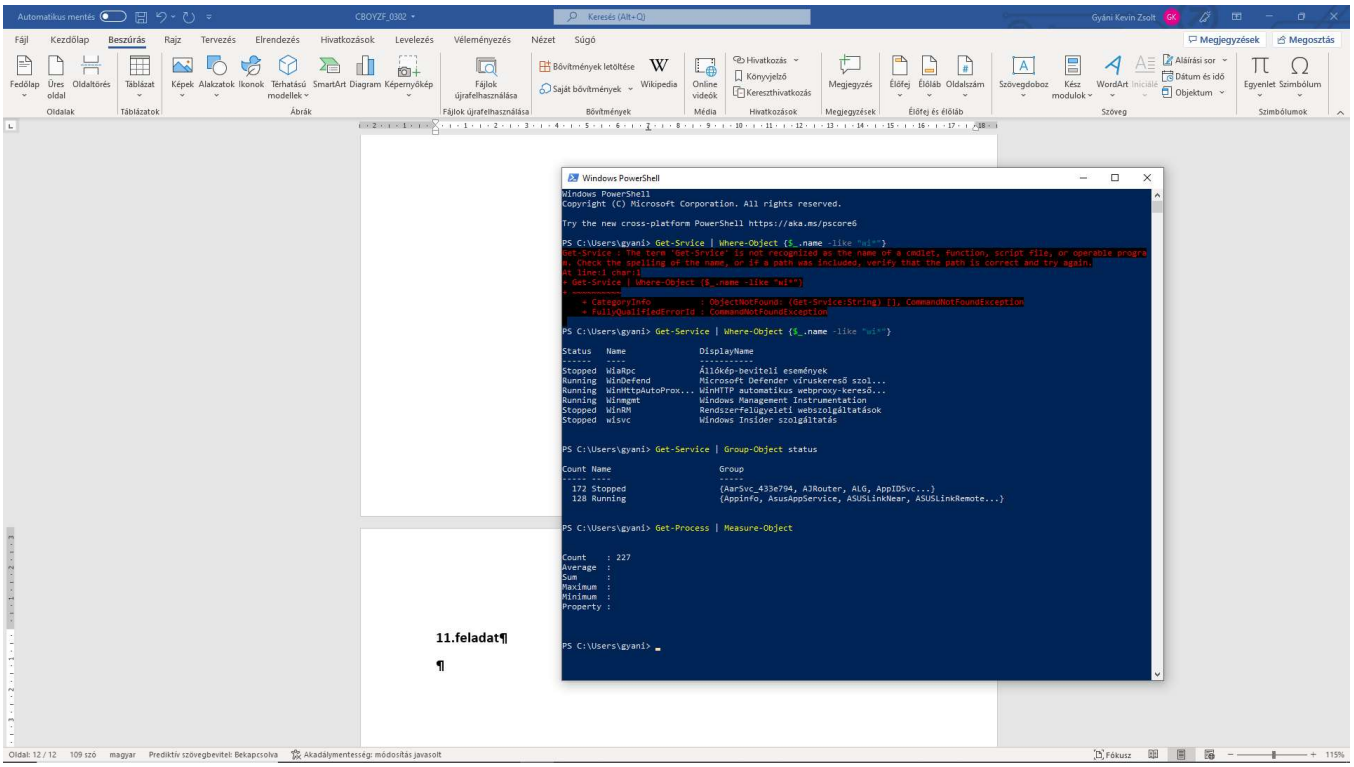
10.feladat

Get-Object statussal állapot szerint csoportosítottam őket



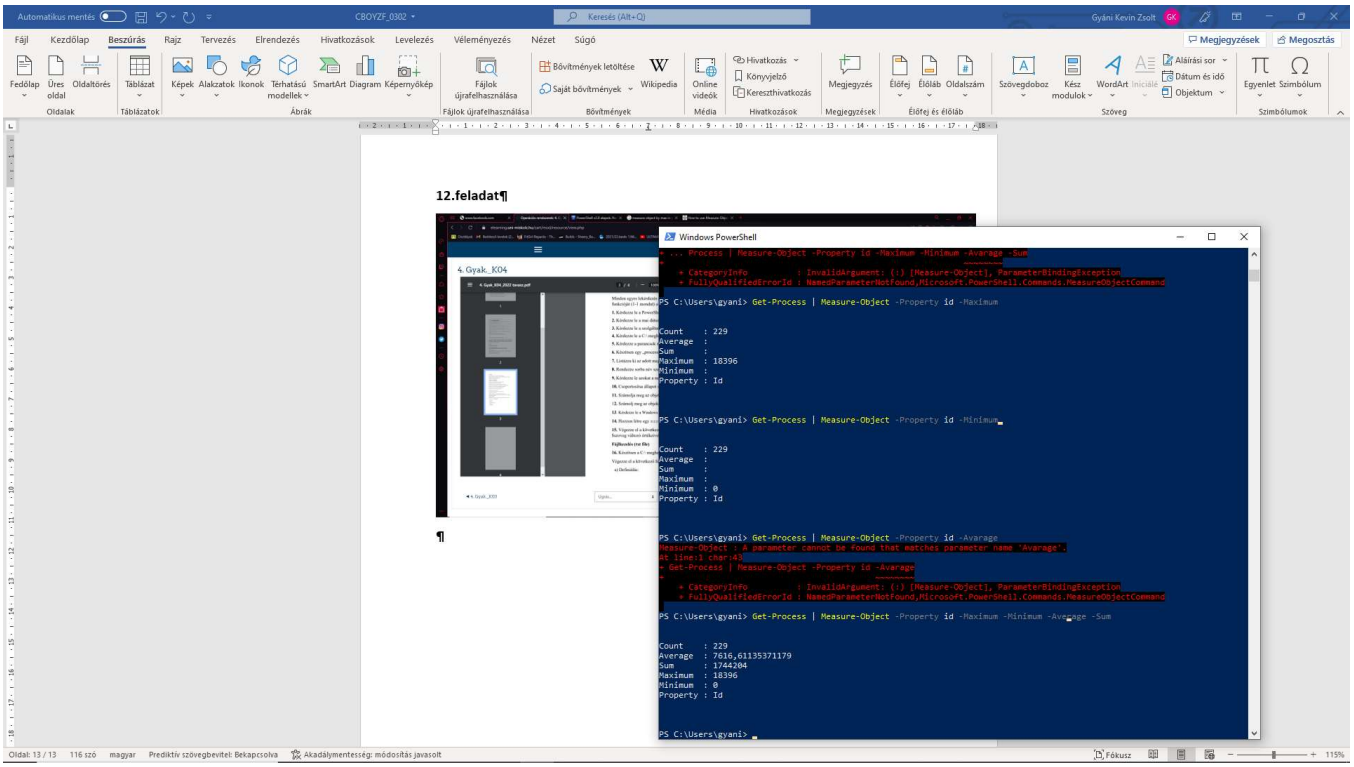
11.feladat

Mesure object paramétrrel megszámoltattam az objektumokat



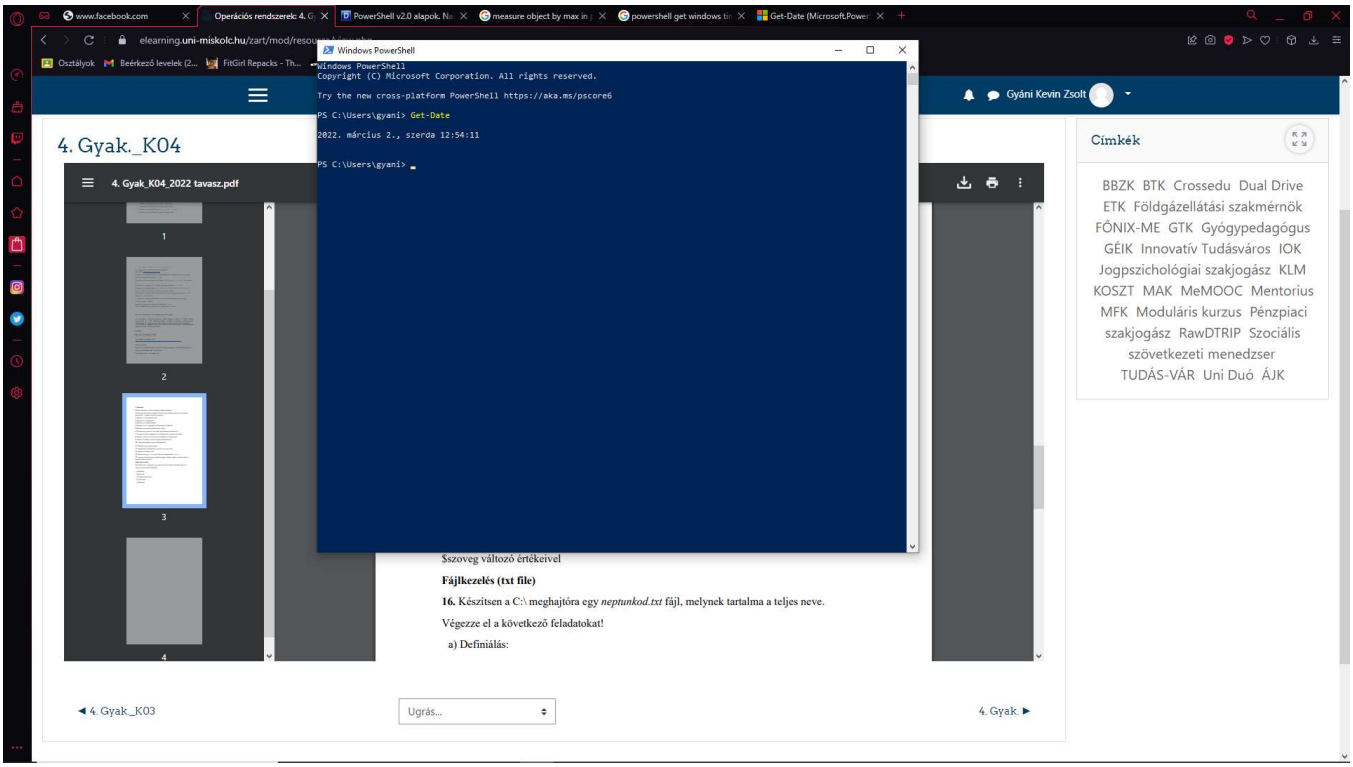
12.feladat

Property -maximum-minimum,-average, -Sum parancsal is megszámoltam őket



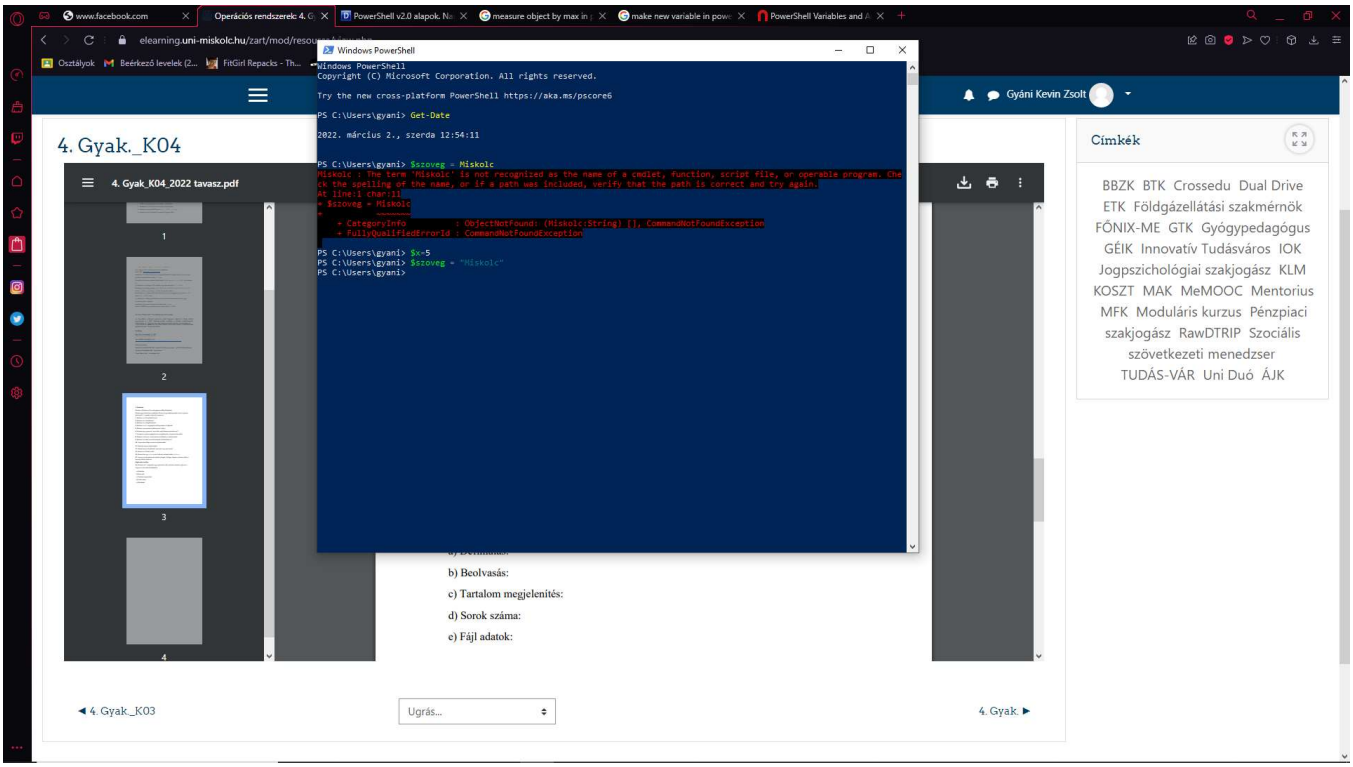
13.feladat

Lekrédeztem a widnows idejét get-date-val

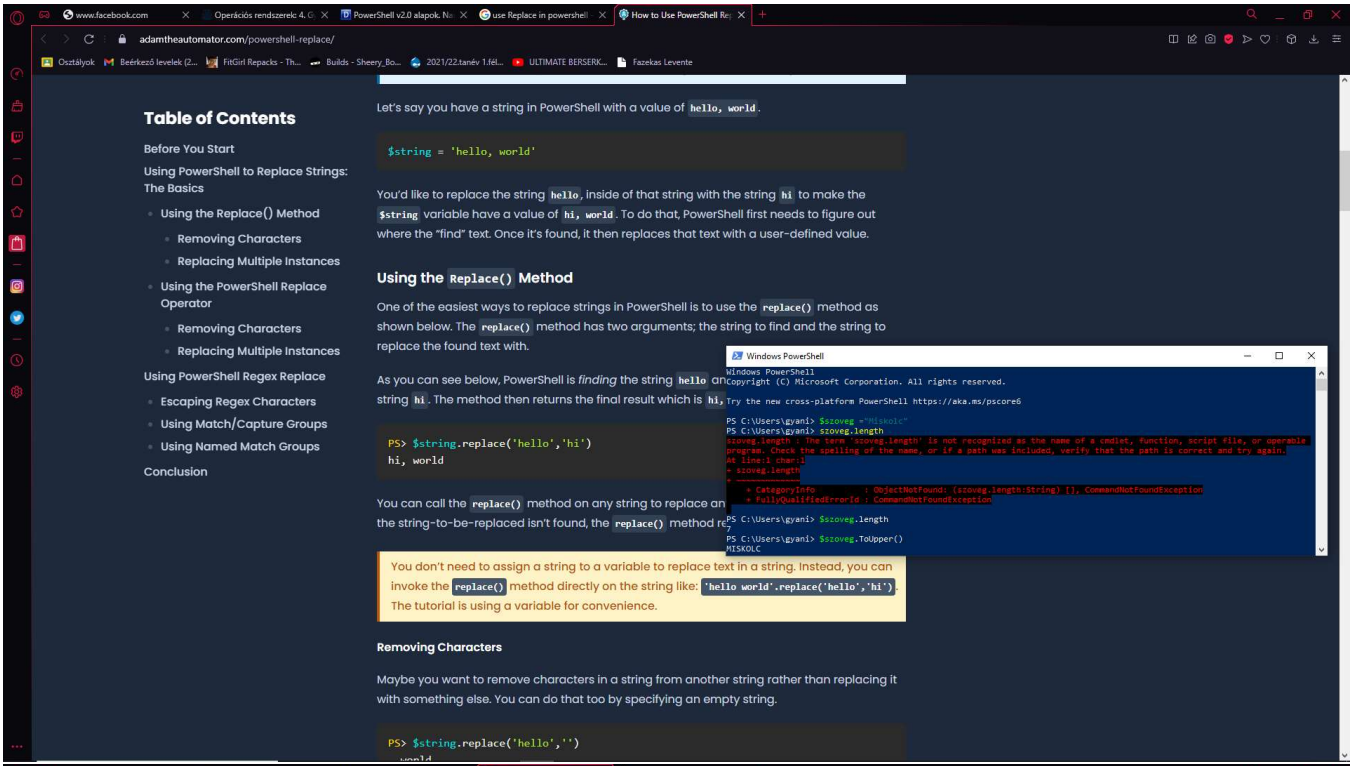


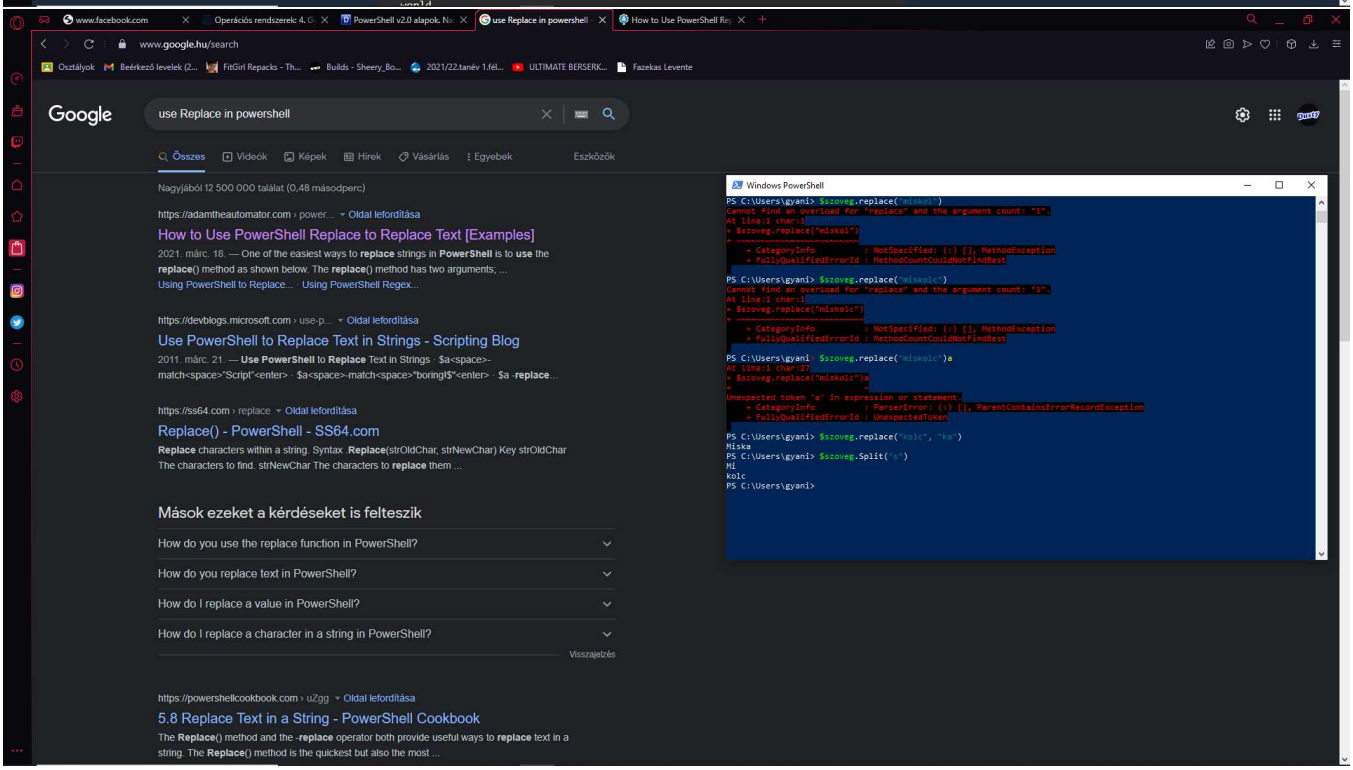
14.feladat

$al létrehoztam egy szöveg nevű változót miskolc értékkel



15.feladat használtam a szövegen a length,toUpper,Replace,Split parancsokat





16.feladat

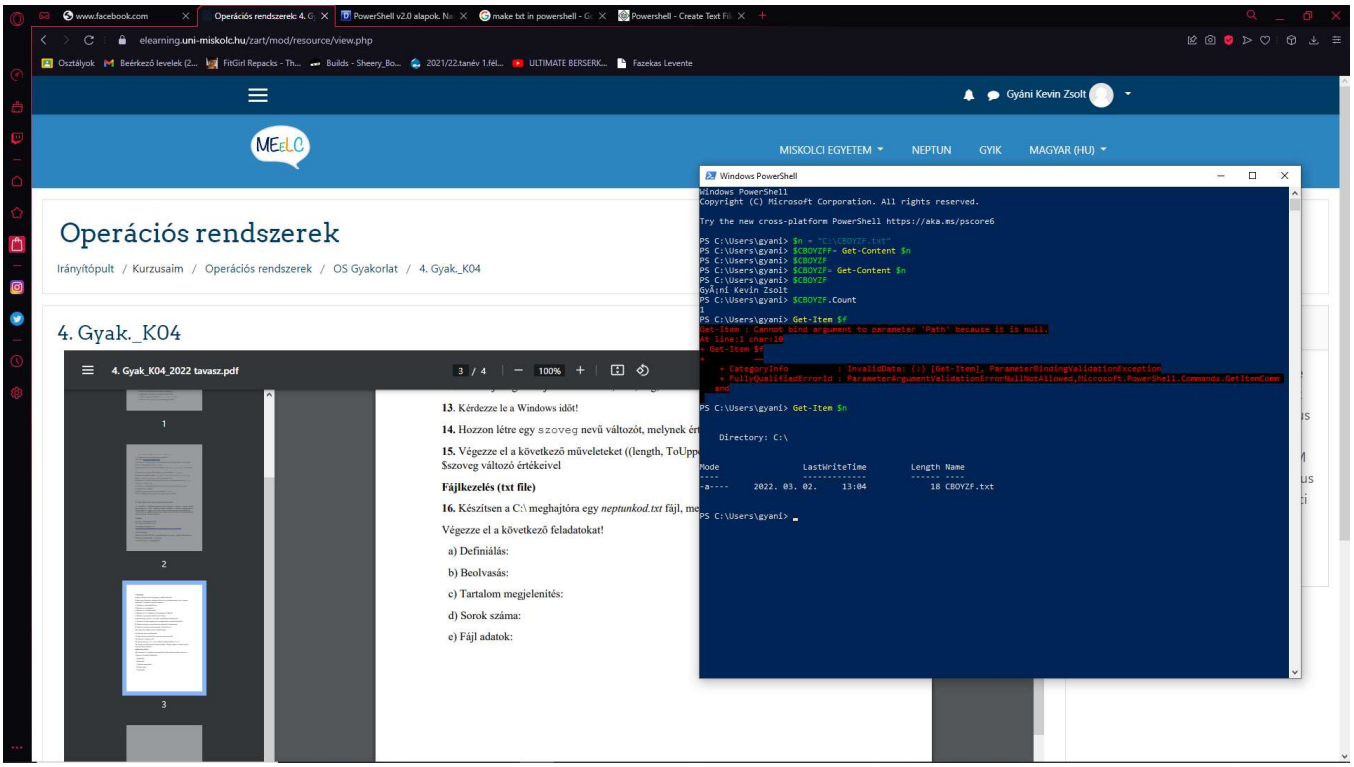
a, definiáltam $n-el egy n változót

b, Get-Contetnt-el beolvastam

c, $ változónévvel kiatram a fájlt

d, változónév.count-al megszámoltam a sorokat

e, Get-Item $n-el ki írattam a fájl adatokat

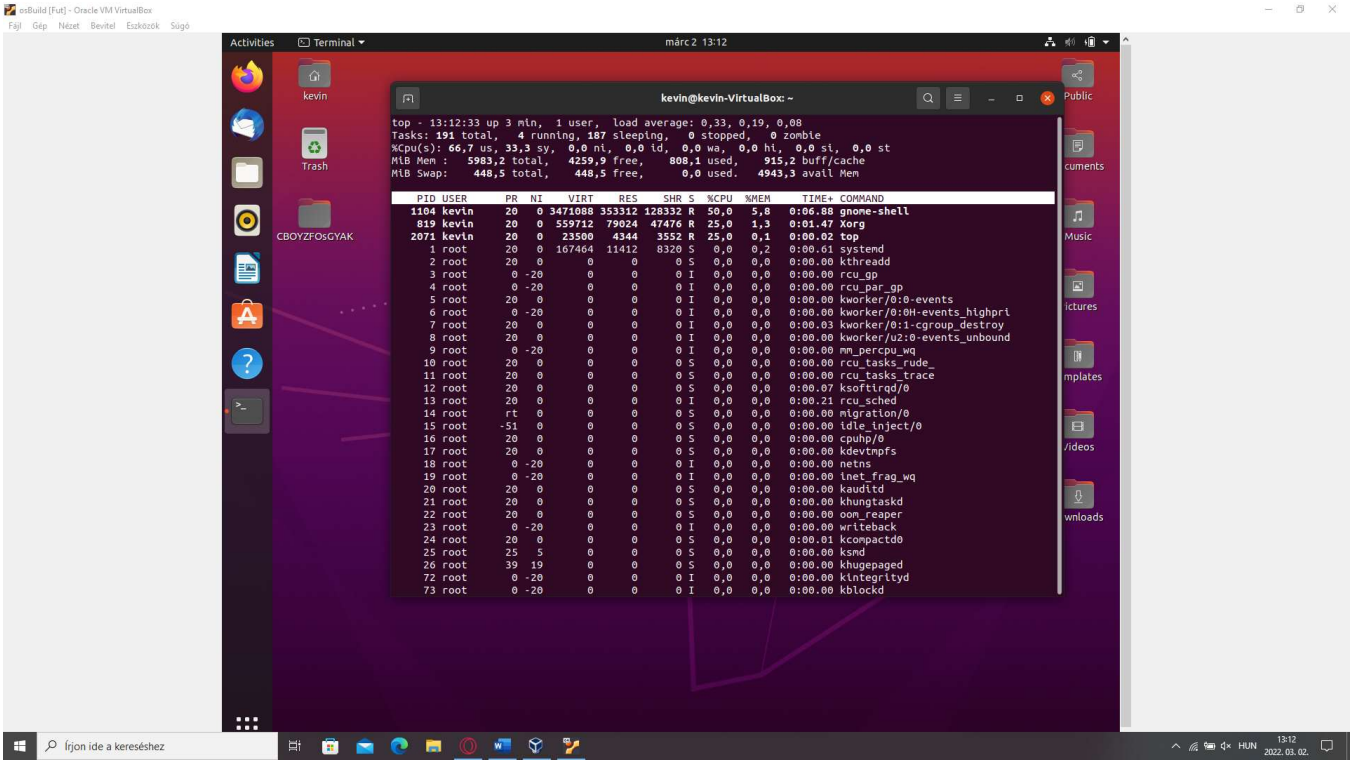


I.Téma: Linux OS - rendszer monitorozó és processz kezelő parancsok

1.feladat

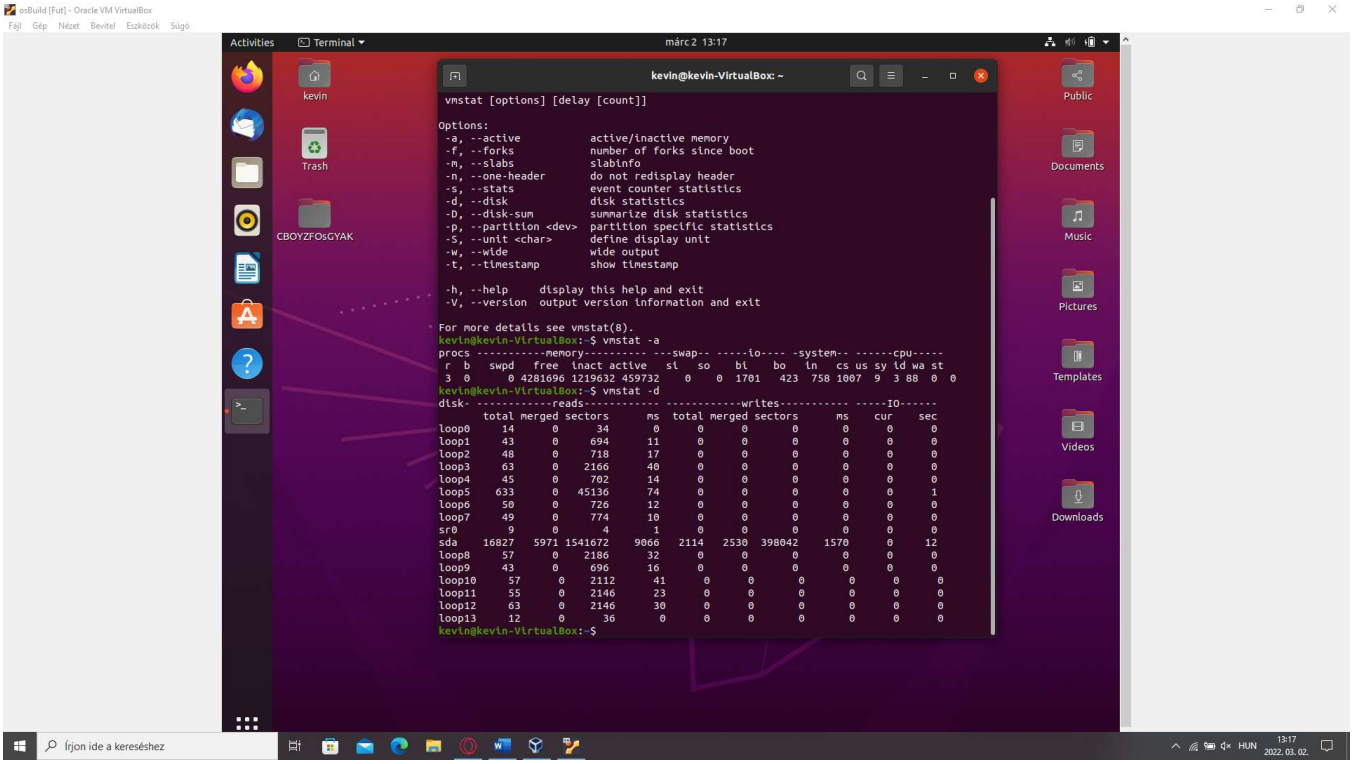
a,

top parancsal kiíratta ma programokat használat szerint



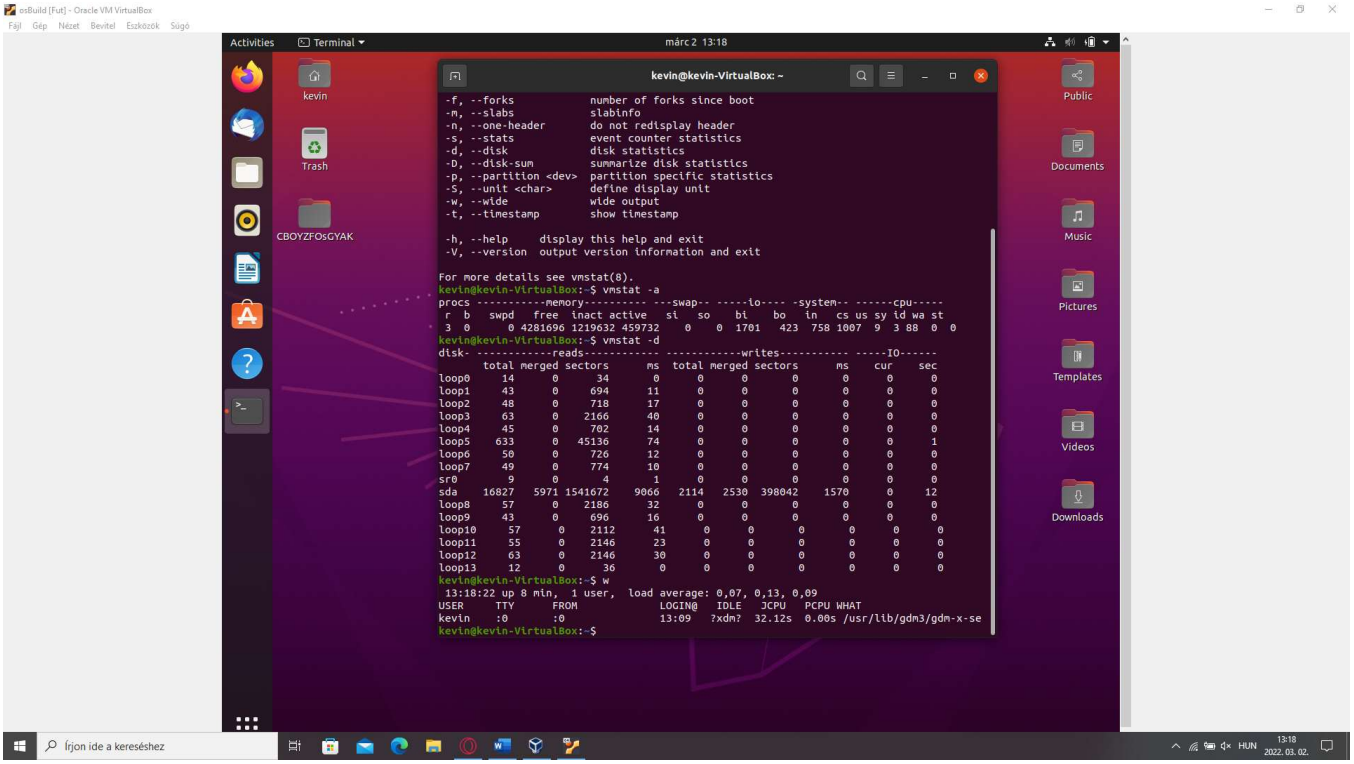
B,

Vm stat parancs és -d, -a kapcsolók segítségével lekérdeztem a kért adatokat

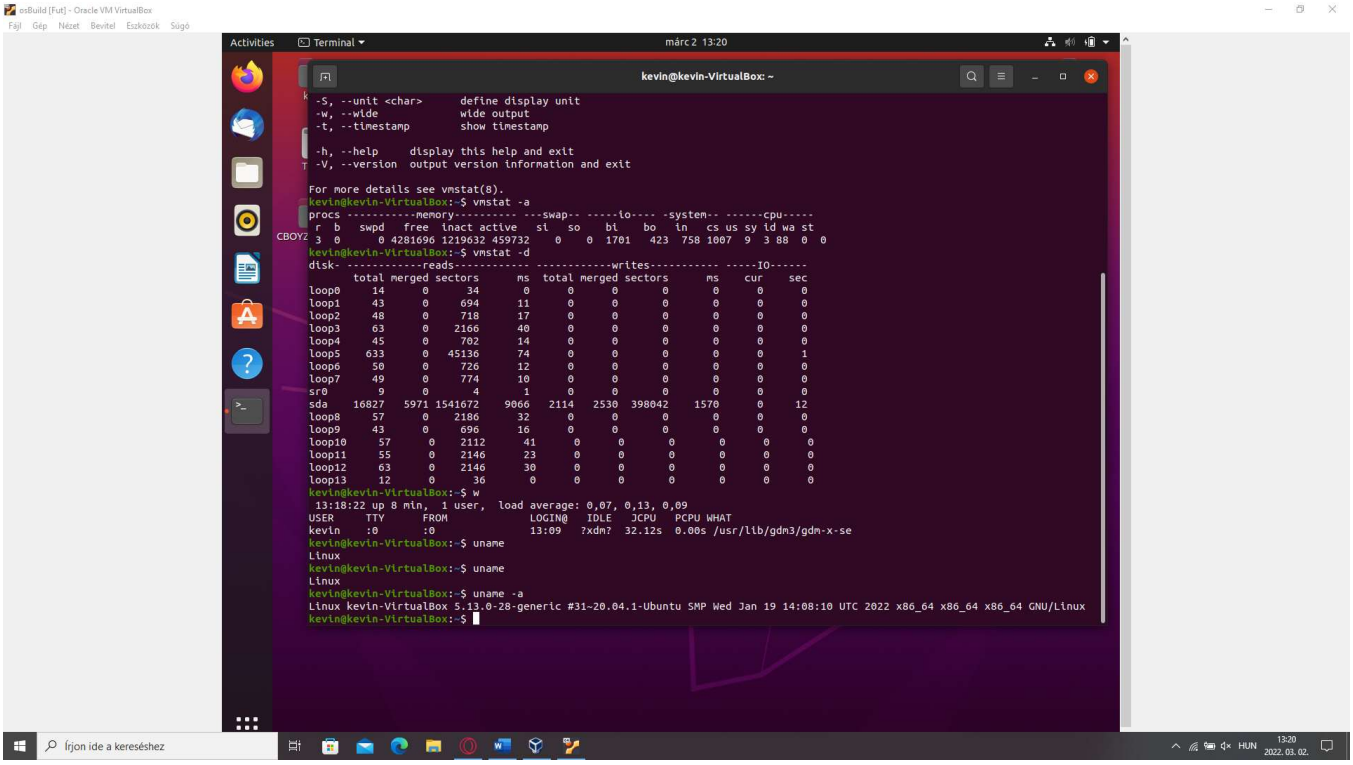


C,

W parancsal lekérdeztem ki van bent a rendszerben és éppen mit csinál

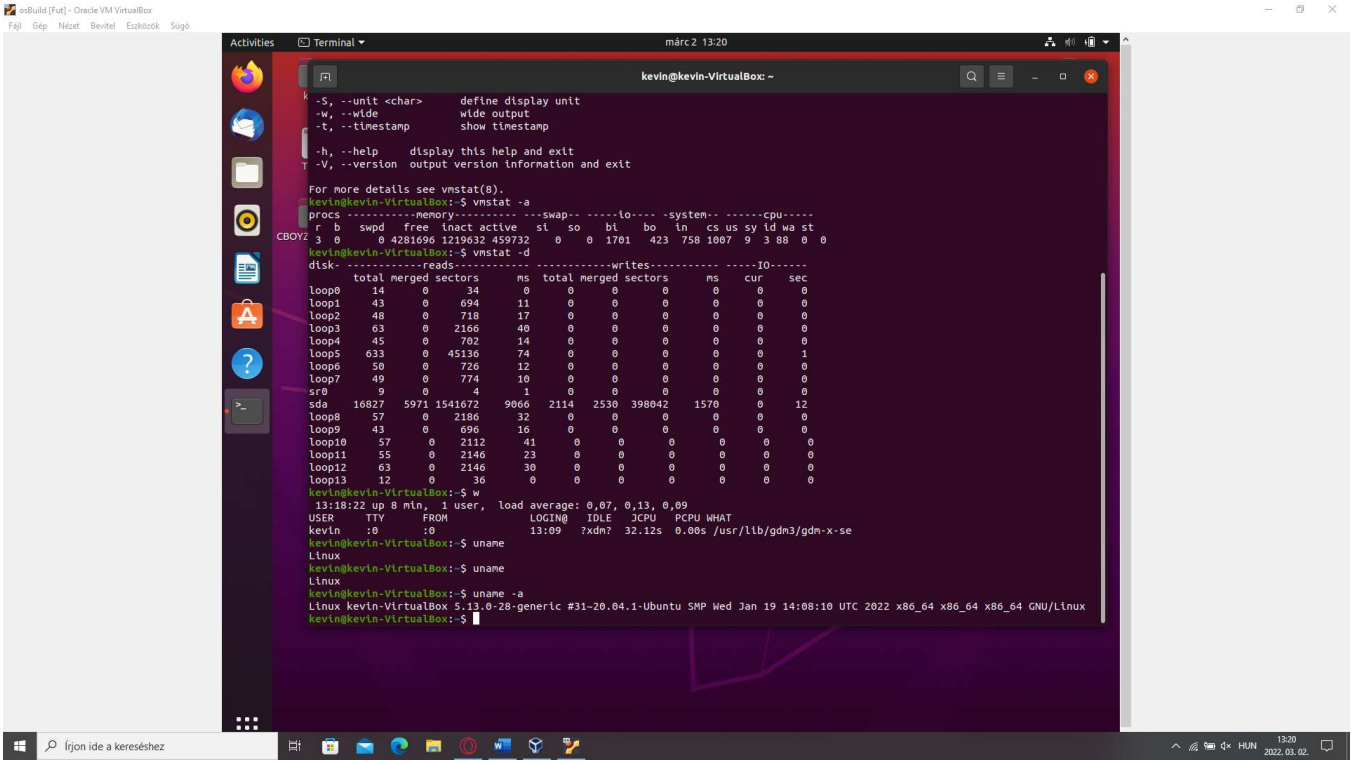


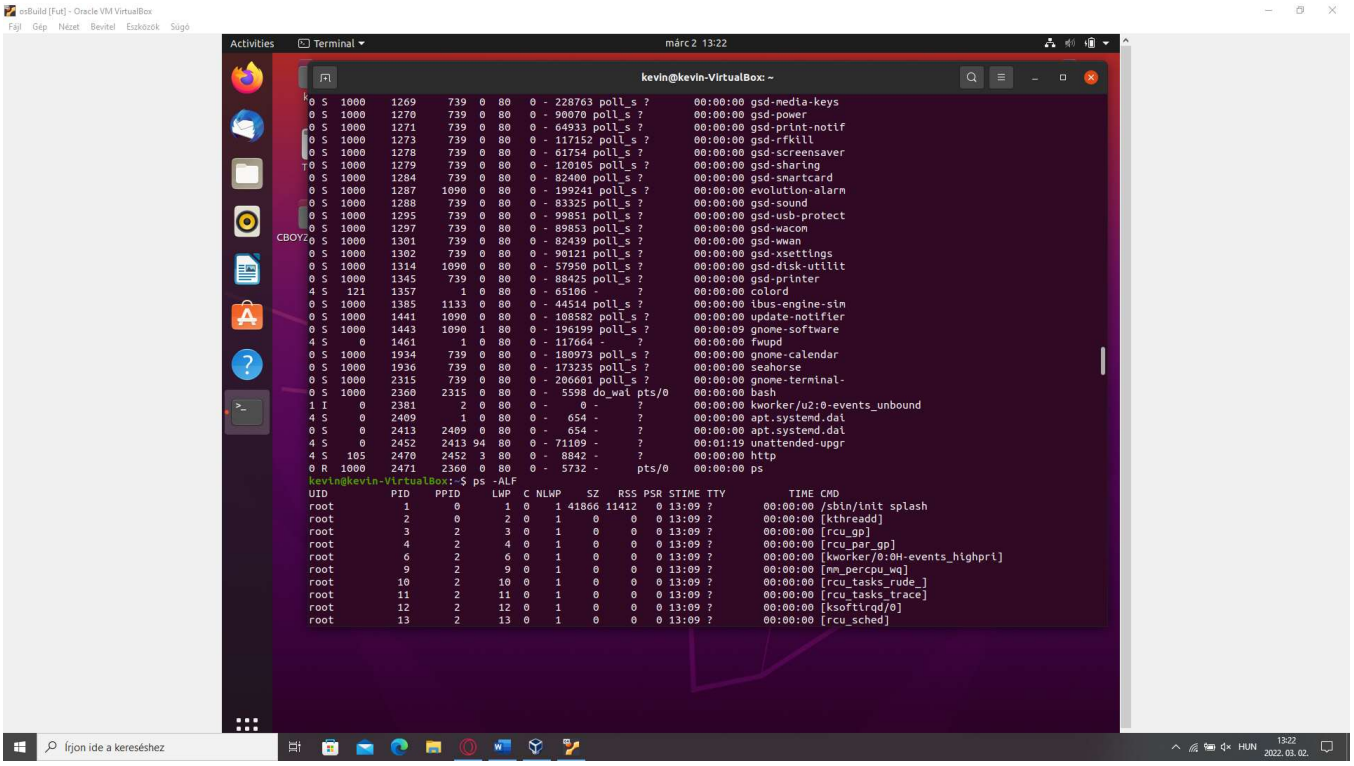
D,lefuttatam az uname parancsot amely kiírja a kért információkat

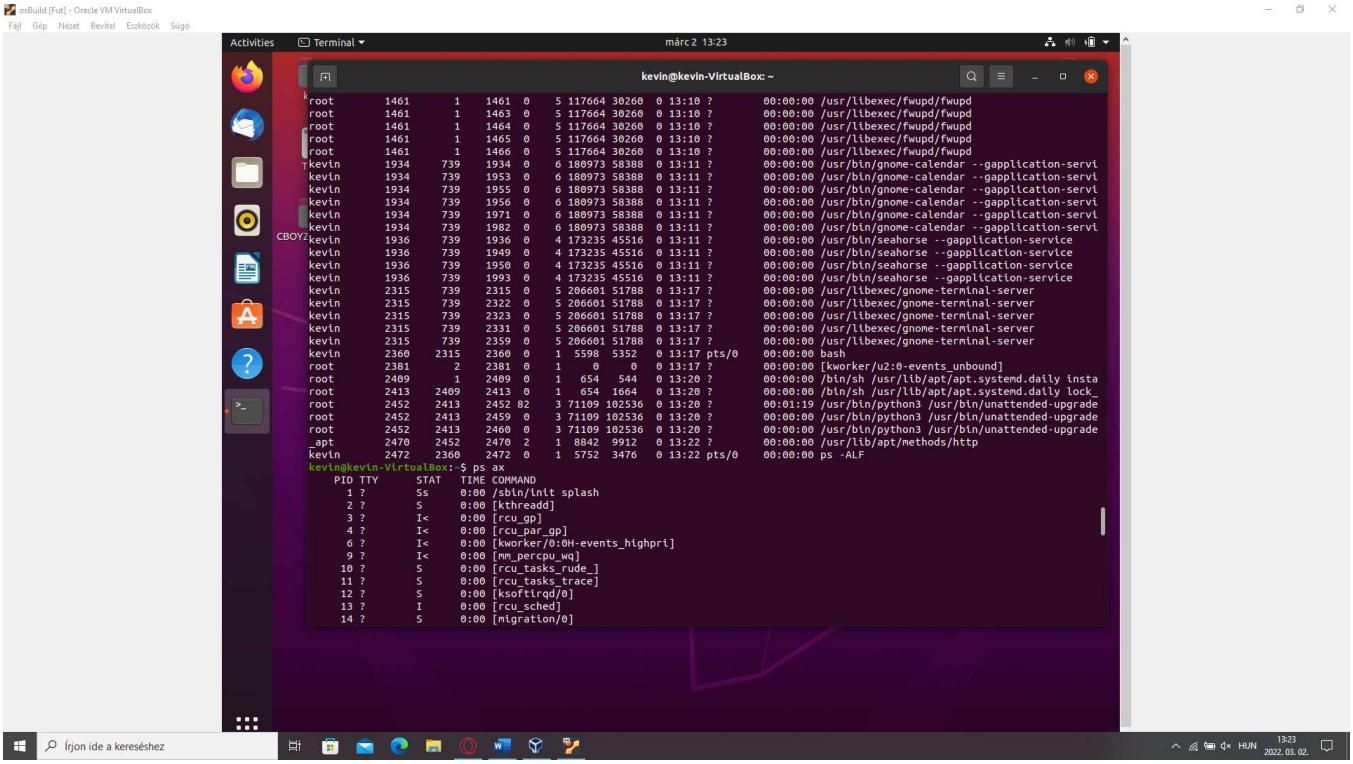


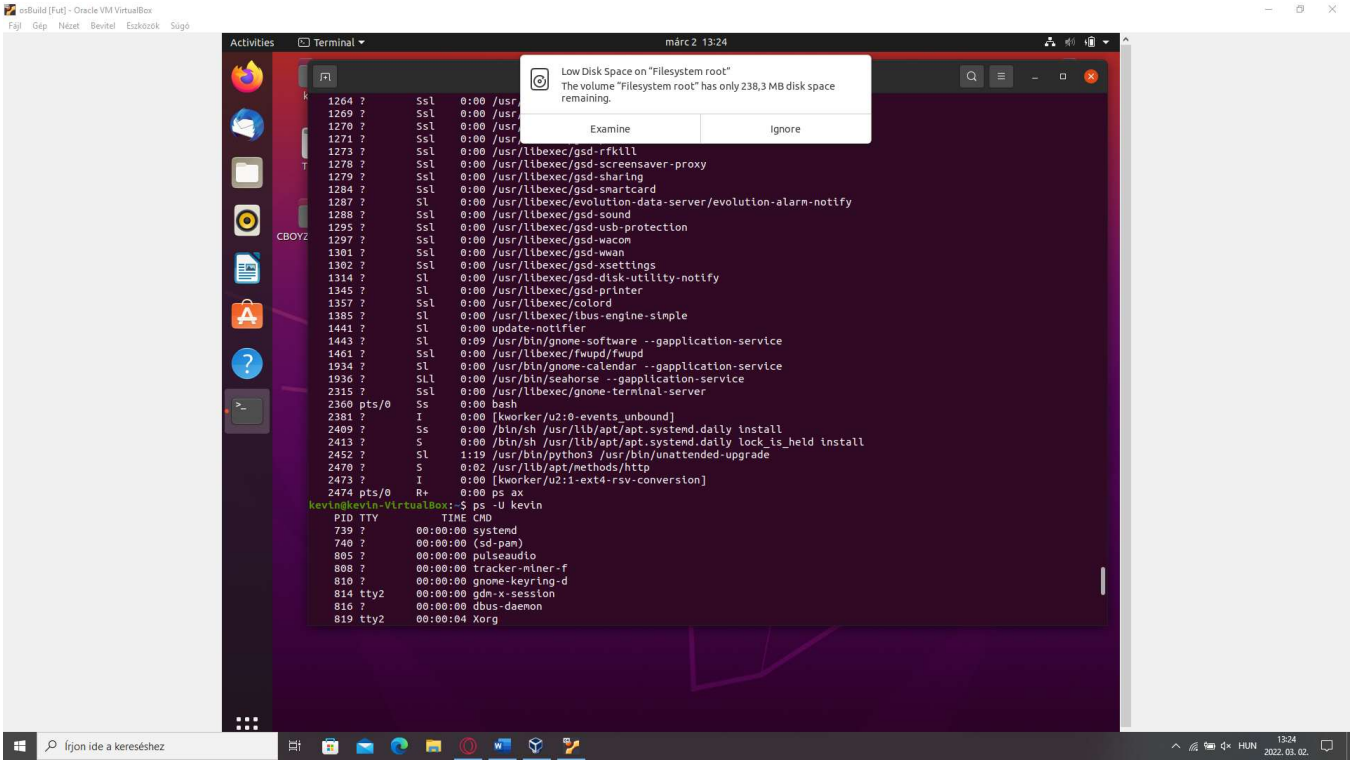
E,

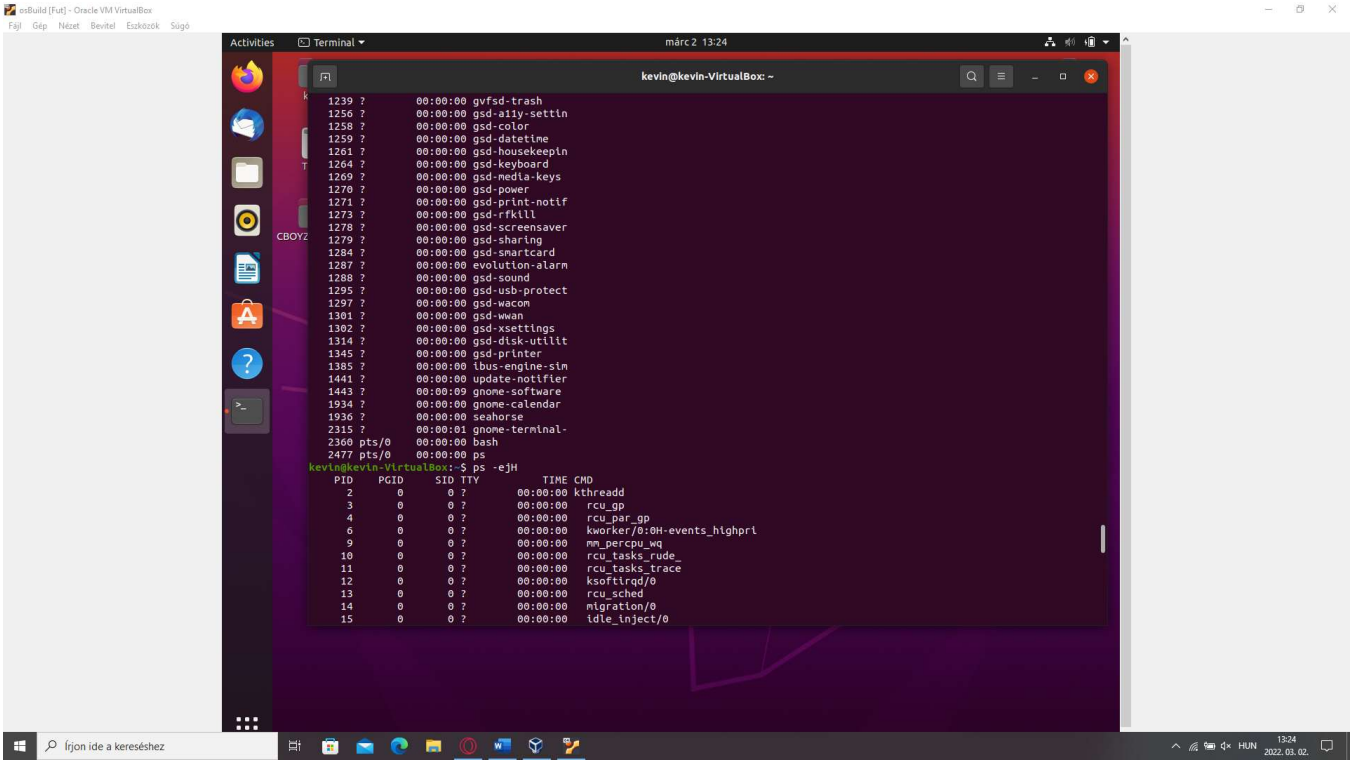
Lefuttatam a ps-t, a kért paraméteerek megadásával

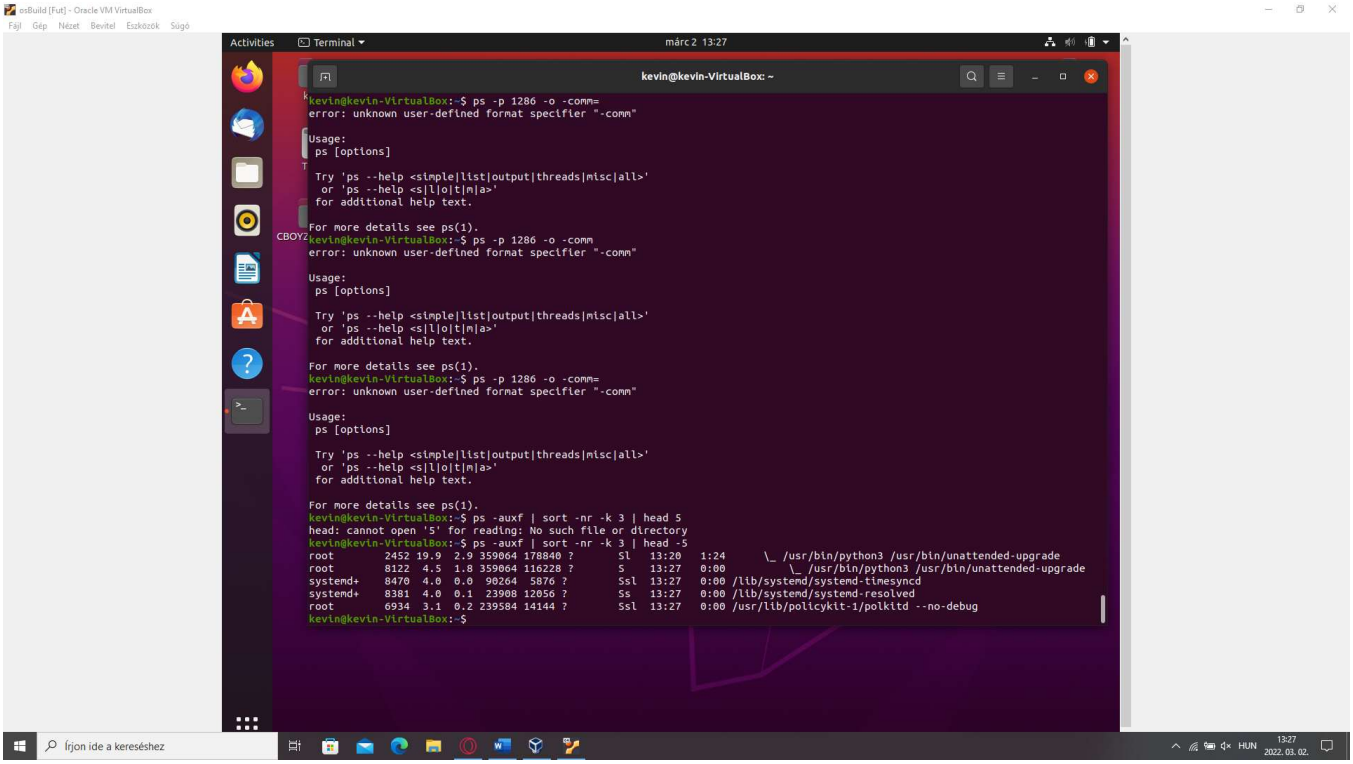





osBuild [Fut] - Oracle VM VirtualBox
Fájl Gép Nézet Bevitel Eszközök Súgó
Activities
Terminal
márc 2 13:23
kevin@kevin-VirtualBox: ~
root 1461 1 1461 0 5 117664 30260 0 13:10 ? 00:00:00 /usr/libexec/fwupd/fwupd
root 1461 1 1463 0 5 117664 30260 0 13:10 ? 00:00:00 /usr/libexec/fwupd/fwupd
root 1461 1 1464 0 5 117664 30260 0 13:10 ? 00:00:00 /usr/libexec/fwupd/fwupd
root 1461 1 1465 0 5 117664 30260 0 13:10 ? 00:00:00 /usr/libexec/fwupd/fwupd
root 1461 1 1466 0 5 117664 30260 0 13:10 ? 00:00:00 /usr/libexec/fwupd/fwupd
kevin 1934 739 1934 0 6 180973 58388 0 13:11 ? 00:00:00 /usr/bin/gnome-calendar --gapplication-servi
kevin 1934 739 1953 0 6 180973 58388 0 13:11 ? 00:00:00 /usr/bin/gnome-calendar --gapplication-servi
kevin 1934 739 1955 0 6 180973 58388 0 13:11 ? 00:00:00 /usr/bin/gnome-calendar --gapplication-servi
kevin 1934 739 1956 0 6 180973 58388 0 13:11 ? 00:00:00 /usr/bin/gnome-calendar --gapplication-servi
kevin 1934 739 1971 0 6 180973 58388 0 13:11 ? 00:00:00 /usr/bin/gnome-calendar --gapplication-servi
kevin 1934 739 1982 0 6 180973 58388 0 13:11 ? 00:00:00 /usr/bin/gnome-calendar --gapplication-servi
kevin 1936 739 1936 0 4 173235 45516 0 13:11 ? 00:00:00 /usr/bin/seahorse --gapplication-service
kevin 1936 739 1949 0 4 173235 45516 0 13:11 ? 00:00:00 /usr/bin/seahorse --gapplication-service
kevin 1936 739 1950 0 4 173235 45516 0 13:11 ? 00:00:00 /usr/bin/seahorse --gapplication-service
kevin 1936 739 1993 0 4 173235 45516 0 13:11 ? 00:00:00 /usr/bin/seahorse --gapplication-service
kevin 2315 739 2315 0 5 206601 51788 0 13:17 ? 00:00:00 /usr/libexec/gnome-terminal-server
kevin 2315 739 2322 0 5 206601 51788 0 13:17 ? 00:00:00 /usr/libexec/gnome-terminal-server
kevin 2315 739 2323 0 5 206601 51788 0 13:17 ? 00:00:00 /usr/libexec/gnome-terminal-server
kevin 2315 739 2331 0 5 206601 51788 0 13:17 ? 00:00:00 /usr/libexec/gnome-terminal-server
kevin 2315 739 2359 0 5 206601 51788 0 13:17 ? 00:00:00 /usr/libexec/gnome-terminal-server
kevin 2360 2315 2360 0 1 5598 5352 0 13:17 pts/0 00:00:00 bash
root 2381 2 2381 0 1 0 0 0 13:17 ? 00:00:00 [kworker/u2:0-events_unbound]
root 2409 1 2409 0 1 654 544 0 13:20 ? 00:00:00 /bin/sh /usr/lib/apt/apt.systemd.daily insta
root 2413 2409 2413 0 1 654 1664 0 13:20 ? 00:00:00 /bin/sh /usr/lib/apt/apt.systemd.daily lock_
root 2452 2413 2452 82 3 71109 102536 0 13:20 ? 00:01:19 /usr/bin/python3 /usr/bin/unattended-upgrade
root 2452 2413 2459 0 3 71109 102536 0 13:20 ? 00:00:00 /usr/bin/python3 /usr/bin/unattended-upgrade
root 2452 2413 2460 0 3 71109 102536 0 13:20 ? 00:00:00 /usr/bin/python3 /usr/bin/unattended-upgrade
_apt 2470 2452 2470 2 1 8842 9912 0 13:22 ? 00:00:00 /usr/lib/apt/methods/http
kevin 2472 2360 2472 0 1 5752 3476 0 13:22 pts/0 00:00:00 ps -ALF
kevin@kevin-VirtualBox:~$ ps ax
PID TTY STAT TIME COMMAND
1 ? Ss 0:00 /sbin/init splash
2 ? S 0:00 [kthreadd]
3 ? I< 0:00 [rcu_gp]
4 ? I< 0:00 [rcu_par_gp]
6 ? I< 0:00 [kworker/0:0H-events_highpri]
9 ? I< 0:00 [mm_percpu_wq]
10 ? S 0:00 [rcu_tasks_rude_]
11 ? S 0:00 [rcu_tasks_trace]
12 ? S 0:00 [ksoftirqd/0]
13 ? I 0:00 [rcu_sched]
14 ? S 0:00 [migration/0]
Írjon ide a kereséshez
HUN
13:23
2022. 03. 02.

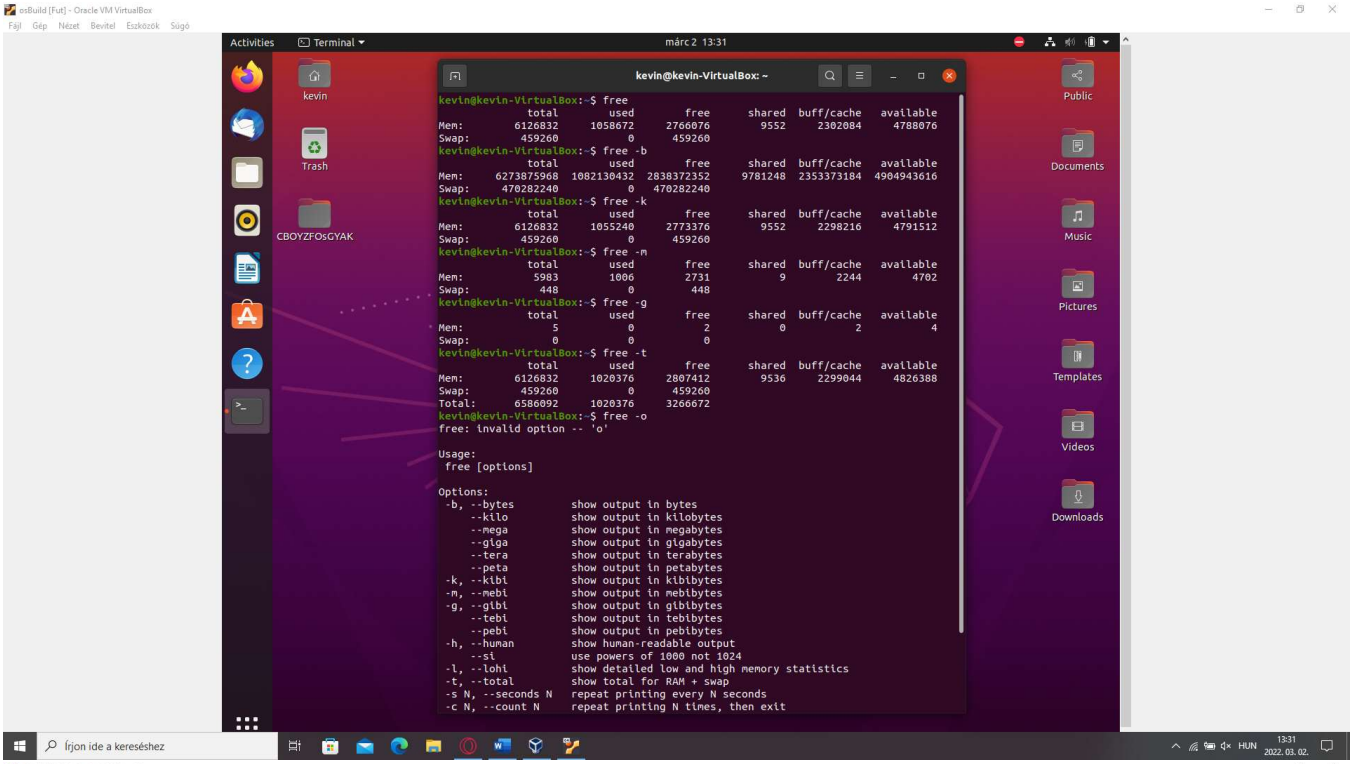

osBuild [Fut] - Oracle VM VirtualBox
Fájl Gép Nézet Bevitel Eszközök Súgó
Activities
Terminal
márc 2 13:24
Low Disk Space on "Filesystem root"
The volume "Filesystem root" has only 238,3 MB disk space remaining.
Examine
Ignore
1264 ? Ssl 0:00 /usr
1269 ? Ssl 0:00 /usr
1270 ? Ssl 0:00 /usr
1271 ? Ssl 0:00 /usr
1273 ? Ssl 0:00 /usr/libexec/gsd-rfkill
1278 ? Ssl 0:00 /usr/libexec/gsd-screensaver-proxy
1279 ? Ssl 0:00 /usr/libexec/gsd-sharing
1284 ? Ssl 0:00 /usr/libexec/gsd-smartcard
1287 ? Sl 0:00 /usr/libexec/evolution-data-server/evolution-alarm-notify
1288 ? Ssl 0:00 /usr/libexec/gsd-sound
1295 ? Ssl 0:00 /usr/libexec/gsd-usb-protection
1297 ? Ssl 0:00 /usr/libexec/gsd-wacom
1301 ? Ssl 0:00 /usr/libexec/gsd-wwan
1302 ? Ssl 0:00 /usr/libexec/gsd-xsettings
1314 ? Sl 0:00 /usr/libexec/gsd-disk-utility-notify
1345 ? Sl 0:00 /usr/libexec/gsd-printer
1357 ? Ssl 0:00 /usr/libexec/colord
1385 ? Sl 0:00 /usr/libexec/ibus-engine-simple
1441 ? Sl 0:00 update-notifier
1443 ? Sl 0:09 /usr/bin/gnome-software --gapplication-service
1461 ? Ssl 0:00 /usr/libexec/fwupd/fwupd
1934 ? Sl 0:00 /usr/bin/gnome-calendar --gapplication-service
1936 ? SLl 0:00 /usr/bin/seahorse --gapplication-service
2315 ? Ssl 0:00 /usr/libexec/gnome-terminal-server
2360 pts/0 Ss 0:00 bash
2381 ? I 0:00 [kworker/u2:0-events_unbound]
2409 ? Ss 0:00 /bin/sh /usr/lib/apt/apt.systemd.daily install
2413 ? S 0:00 /bin/sh /usr/lib/apt/apt.systemd.daily lock_is_held install
2452 ? Sl 1:19 /usr/bin/python3 /usr/bin/unattended-upgrade
2470 ? S 0:02 /usr/lib/apt/methods/http
2473 ? I 0:00 [kworker/u2:1-ext4-rsv-conversion]
2474 pts/0 R+ 0:00 ps ax
kevin@kevin-VirtualBox:~$ ps -U kevin
PID TTY TIME CMD
739 ? 00:00:00 systemd
740 ? 00:00:00 (sd-pam)
805 ? 00:00:00 pulseaudio
808 ? 00:00:00 tracker-miner-f
810 ? 00:00:00 gnome-keyring-d
814 tty2 00:00:00 gdm-x-session
816 ? 00:00:00 dbus-daemon
819 tty2 00:00:04 Xorg
Írjon ide a kereséshez
HUN
13:24
2022. 03. 02.

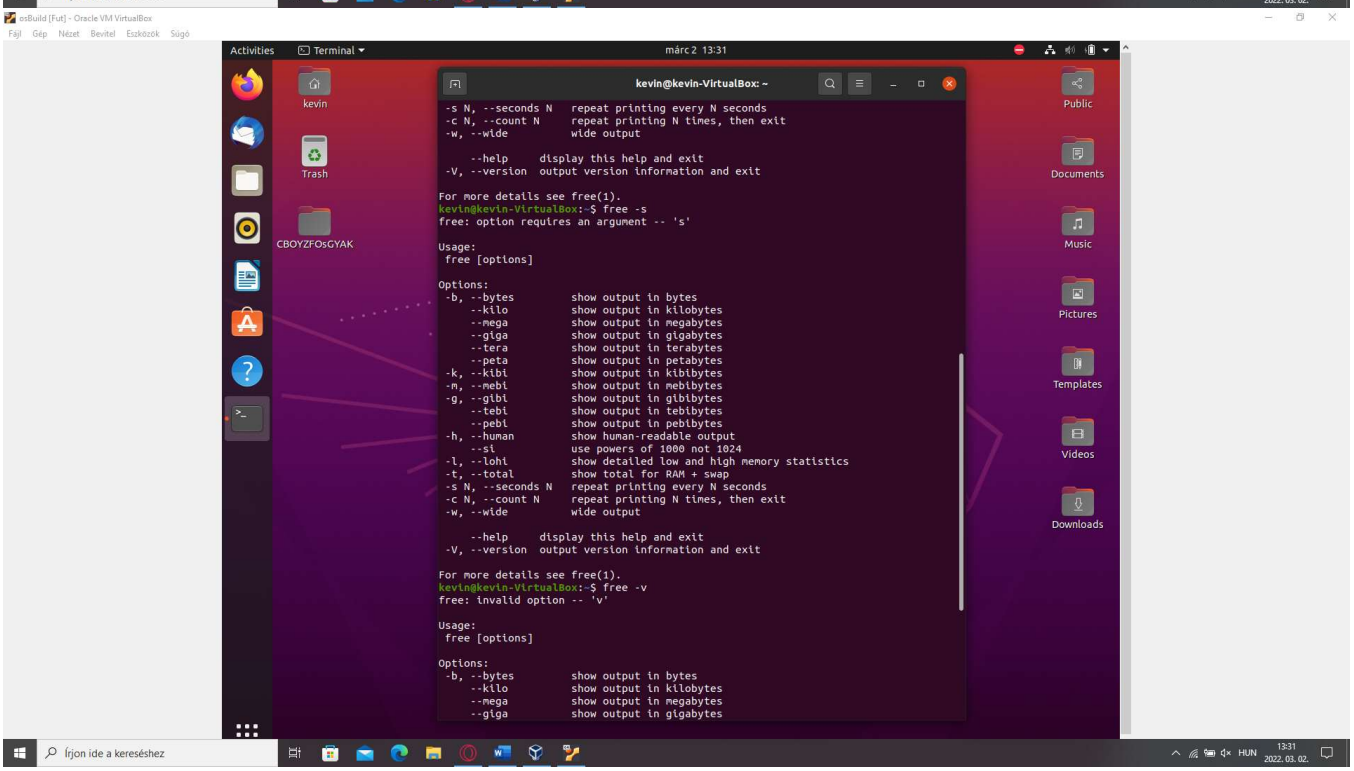

osBuild [Fut] - Oracle VM VirtualBox
Fájl Gép Nézet Bevitel Eszközök Súgó
Activities
Terminal
márc 2 13:24
kevin@kevin-VirtualBox: ~
1239 ? 00:00:00 gvfsd-trash
1256 ? 00:00:00 gsd-a11y-settin
1258 ? 00:00:00 gsd-color
1259 ? 00:00:00 gsd-datetime
1261 ? 00:00:00 gsd-housekeepin
1264 ? 00:00:00 gsd-keyboard
1269 ? 00:00:00 gsd-media-keys
1270 ? 00:00:00 gsd-power
1271 ? 00:00:00 gsd-print-notif
1273 ? 00:00:00 gsd-rfkill
1278 ? 00:00:00 gsd-screensaver
1279 ? 00:00:00 gsd-sharing
1284 ? 00:00:00 gsd-smartcard
1287 ? 00:00:00 evolution-alarm
1288 ? 00:00:00 gsd-sound
1295 ? 00:00:00 gsd-usb-protect
1297 ? 00:00:00 gsd-wacom
1301 ? 00:00:00 gsd-wwan
1302 ? 00:00:00 gsd-xsettings
1314 ? 00:00:00 gsd-disk-utilit
1345 ? 00:00:00 gsd-printer
1385 ? 00:00:00 ibus-engine-sim
1441 ? 00:00:00 update-notifier
1443 ? 00:00:09 gnome-software
1934 ? 00:00:00 gnome-calendar
1936 ? 00:00:00 seahorse
2315 ? 00:00:01 gnome-terminal-
2360 pts/0 00:00:00 bash
2477 pts/0 00:00:00 ps
kevin@kevin-VirtualBox:~$ ps -ejH
PID PGID SID TTY TIME CMD
2 0 0 ? 00:00:00 kthreadd
3 0 0 ? 00:00:00 rcu_gp
4 0 0 ? 00:00:00 rcu_par_gp
6 0 0 ? 00:00:00 kworker/0:0H-events_highpri
9 0 0 ? 00:00:00 mm_percpu_wq
10 0 0 ? 00:00:00 rcu_tasks_rude_
11 0 0 ? 00:00:00 rcu_tasks_trace
12 0 0 ? 00:00:00 ksoftirqd/0
13 0 0 ? 00:00:00 rcu_sched
14 0 0 ? 00:00:00 migration/0
15 0 0 ? 00:00:00 idle_inject/0
Írjon ide a kereséshez
HUN
13:24
2022. 03. 02.


osBuild [Fut] - Oracle VM VirtualBox
Fájl Gép Nézet Bevitel Eszközök Súgó
Activities
Terminal
márc 2 13:27
kevin@kevin-VirtualBox: ~
kevin@kevin-VirtualBox:~$ ps -p 1286 -o -comm=
error: unknown user-defined format specifier "-comm"
Usage:
ps [options]
Try 'ps --help <simple|list|output|threads|misc|all>'
or 'ps --help <s|l|o|t|m|a>'
for additional help text.
For more details see ps(1).
kevin@kevin-VirtualBox:~$ ps -p 1286 -o -comm
error: unknown user-defined format specifier "-comm"
Usage:
ps [options]
Try 'ps --help <simple|list|output|threads|misc|all>'
or 'ps --help <s|l|o|t|m|a>'
for additional help text.
For more details see ps(1).
kevin@kevin-VirtualBox:~$ ps -p 1286 -o -comm=
error: unknown user-defined format specifier "-comm"
Usage:
ps [options]
Try 'ps --help <simple|list|output|threads|misc|all>'
or 'ps --help <s|l|o|t|m|a>'
for additional help text.
For more details see ps(1).
kevin@kevin-VirtualBox:~$ ps -auxf | sort -nr -k 3 | head 5
head: cannot open '5' for reading: No such file or directory
kevin@kevin-VirtualBox:~$ ps -auxf | sort -nr -k 3 | head -5
root 2452 19.9 2.9 359064 178840 ? Sl 13:20 1:24 _ /usr/bin/python3 /usr/bin/unattended-upgrade
root 8122 4.5 1.8 359064 116228 ? S 13:27 0:00 _ /usr/bin/python3 /usr/bin/unattended-upgrade
systemd+ 8470 4.0 0.0 90264 5876 ? Ssl 13:27 0:00 /lib/systemd/systemd-timesyncd
systemd+ 8381 4.0 0.1 23908 12056 ? Ss 13:27 0:00 /lib/systemd/systemd-resolved
root 6934 3.1 0.2 239584 14144 ? Ssl 13:27 0:00 /usr/lib/policykit-1/polkitd --no-debug
kevin@kevin-VirtualBox:~$
Írjon ide a kereséshez
HUN
13:27
2022. 03. 02.

F,

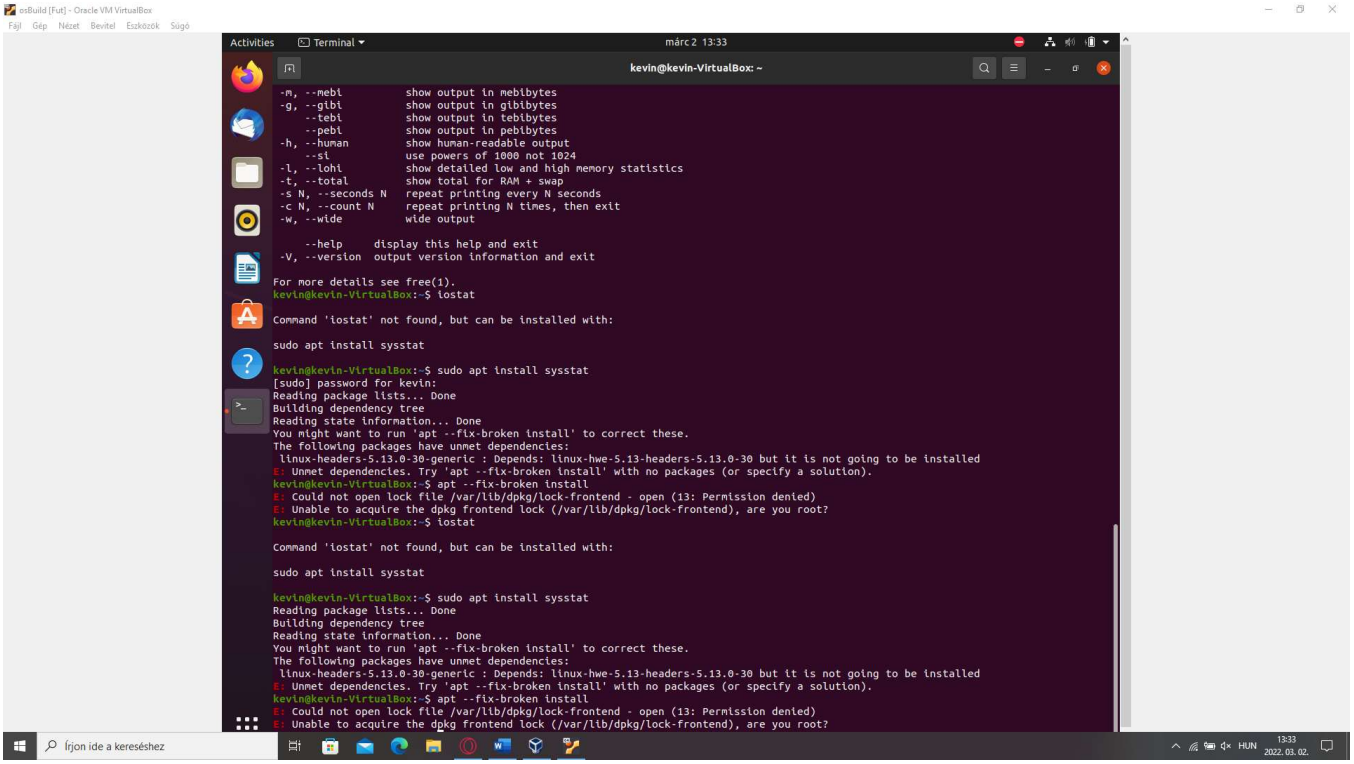
Free parancsal lekérdeztem a kért dolgokat



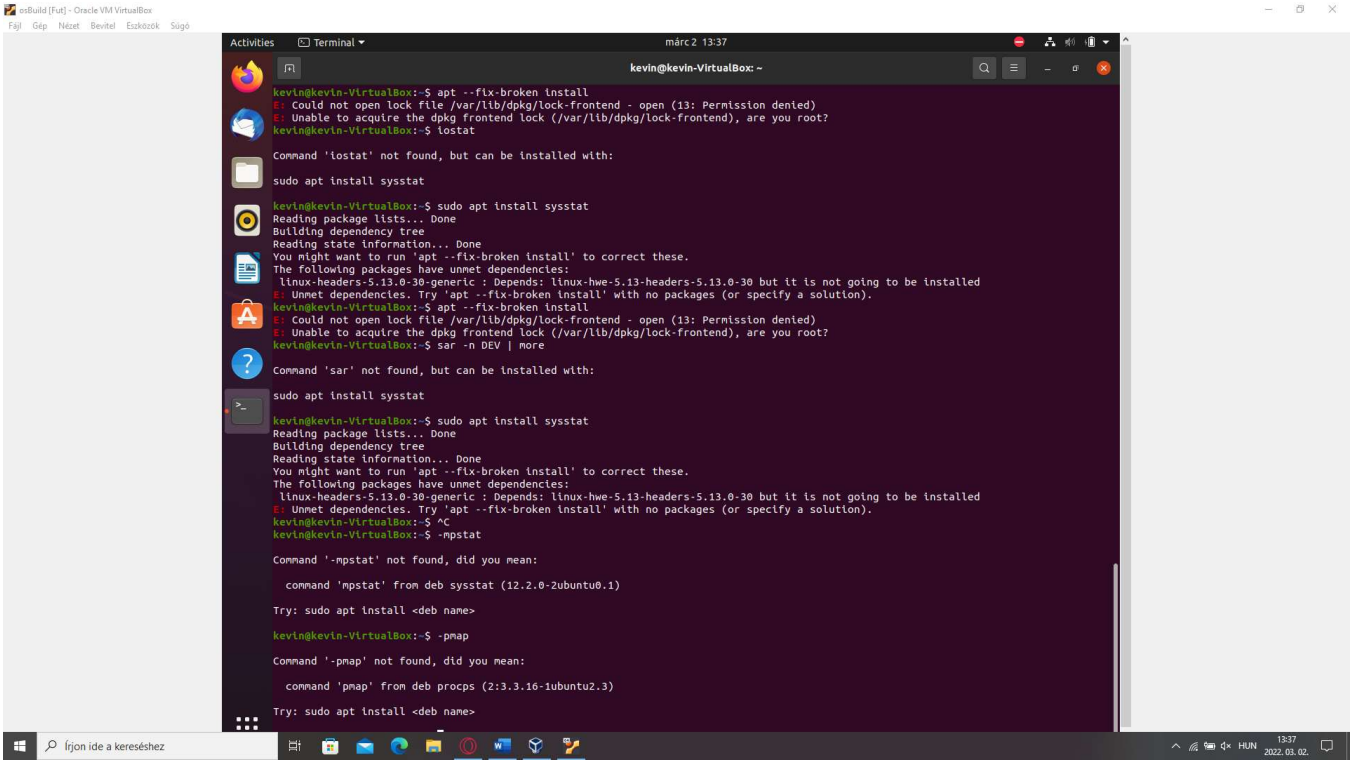


G,

Iostat parancsal lekérdeztem őket

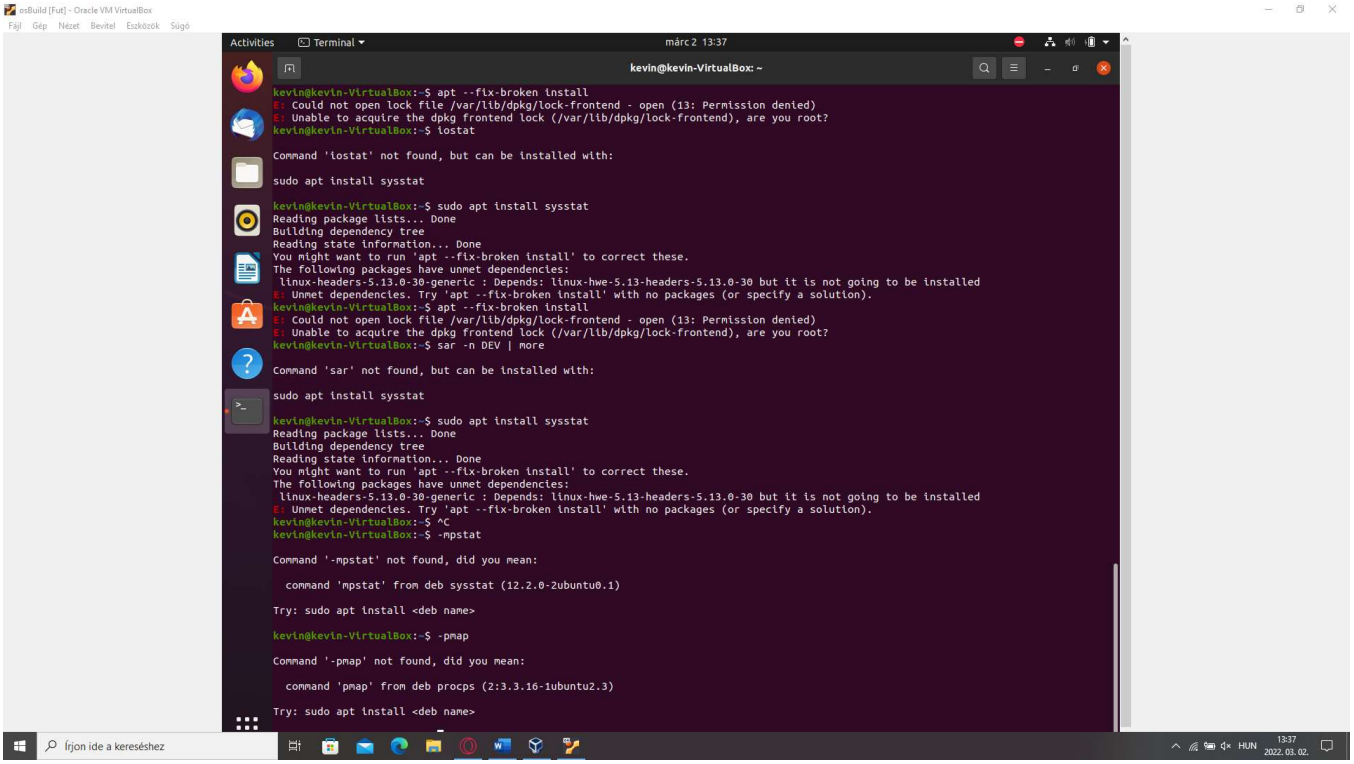
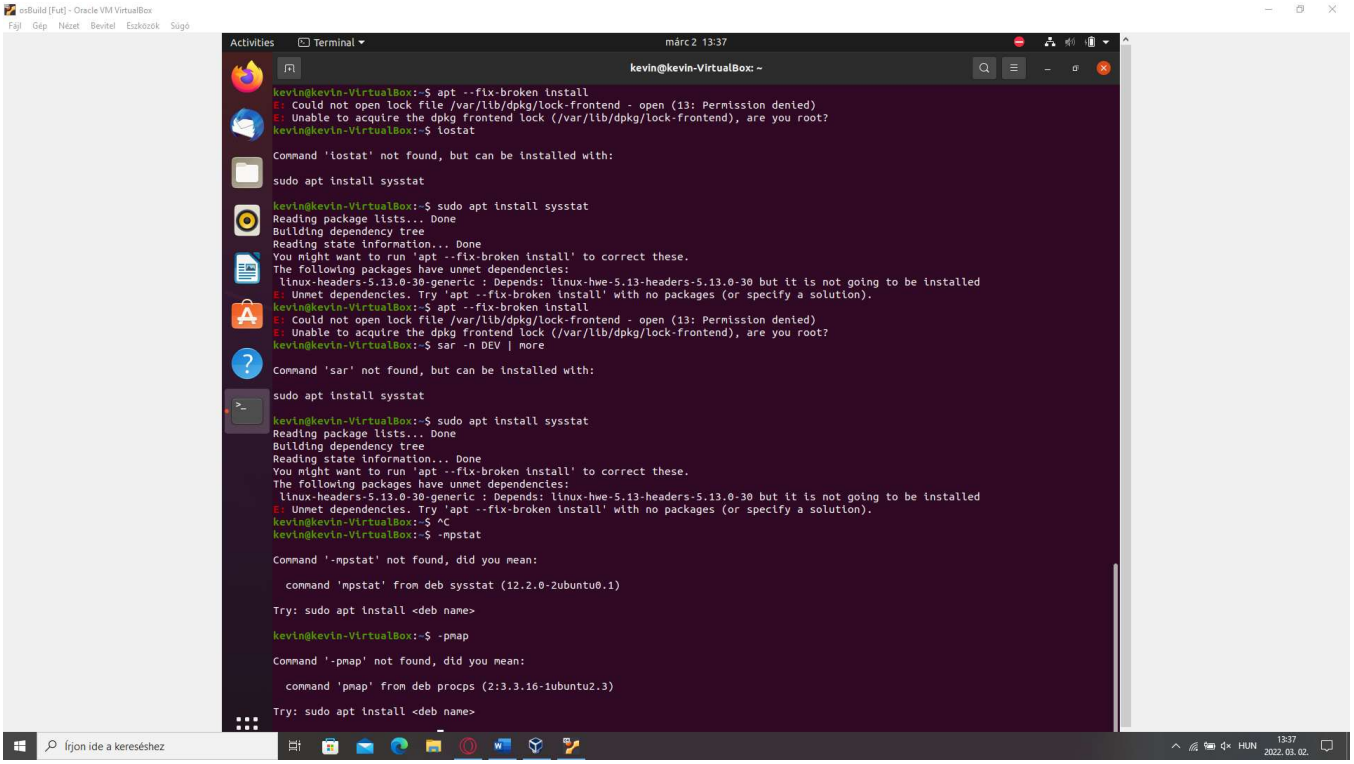


H,lefuttatam a kért prancsot



I,

Lefutatta ma kért parancsot



J, lefuttatam a kért prancsot