

# **Operációs rendszerek BSc**

2.gyak.

2022. 02. 20.

**Készítette:**

Szabó Alen Bsc

Progterv. info.

MX6WLR

**Miskolc, 2021**

a.) Hozza létre a következő mappa szerkezetet!

```
C:\Users\alens\MX6WLR>tree
Folder PATH listing
Volume serial number is 9C78-12B9
C:..
|_ bokor
|   |_ banan
|   |_ barack
|   |_ mogyoro
|_ fa
|   |_ korte
|_ land
|   |_ kokusz
|   |_ szeder
C:\Users\alens\MX6WLR>
```

b.) Készítsen másolatot:

c.) Végezze el a következő áthelyezéseket:

```
C:\Users\alens\MX6WLR>tree
Folder PATH listing
Volume serial number is 9C78-12B9
C:..
|_ bokor
|   |_ banan
|   |_ mogyoro
|_ fa
|   |_ banan
|   |_ barack
|   |_ kokusz
|   |_ korte
|   |_ szeder
|_ land
|   |_ szeder
C:\Users\alens\MX6WLR>
```

d.) Törölje a neptunkod/land katalógust a teljes tartalmával. Hozza létre a következő szöveges állományokat:

```

C:\Users\alens\MX6WLR>tree /f
Folder PATH listing
Volume serial number is 9C78-12B9
C:
├── bokor
│   ├── banan
│   │   └── leiras.txt
│   └── mogyoro
└── fa
    ├── felsorolas.txt
    ├── banan
    │   └── leiras.txt
    ├── barack
    ├── kokusz
    ├── korte
    └── szeder

C:\Users\alens\MX6WLR>

```

```

C:\Users\alens\MX6WLR>dir /b/s *e
C:\Users\alens\MX6WLR\fa\korte

C:\Users\alens\MX6WLR>

```

h.) Tegye mindenki számára olvashatóvá a felsorolas.txt file-t.

```

C:\Users\alens\MX6WLR\fa>attrib -r felsorolas.txt

C:\Users\alens\MX6WLR\fa>

```

Jelenítse meg, hogy mennyi helyet foglal a merevlemezen a neptunkod mappa az al-mappáival együtt

```
Directory of C:\Users\alens\MX6WLR

2022. 02. 20. 16:10 <DIR> .
2022. 02. 20. 16:10 <DIR> ..
2022. 02. 20. 16:07 <DIR> bokor
2022. 02. 20. 16:07 <DIR> fa
                0 File(s)                0 bytes
                4 Dir(s) 199 568 601 088 bytes free

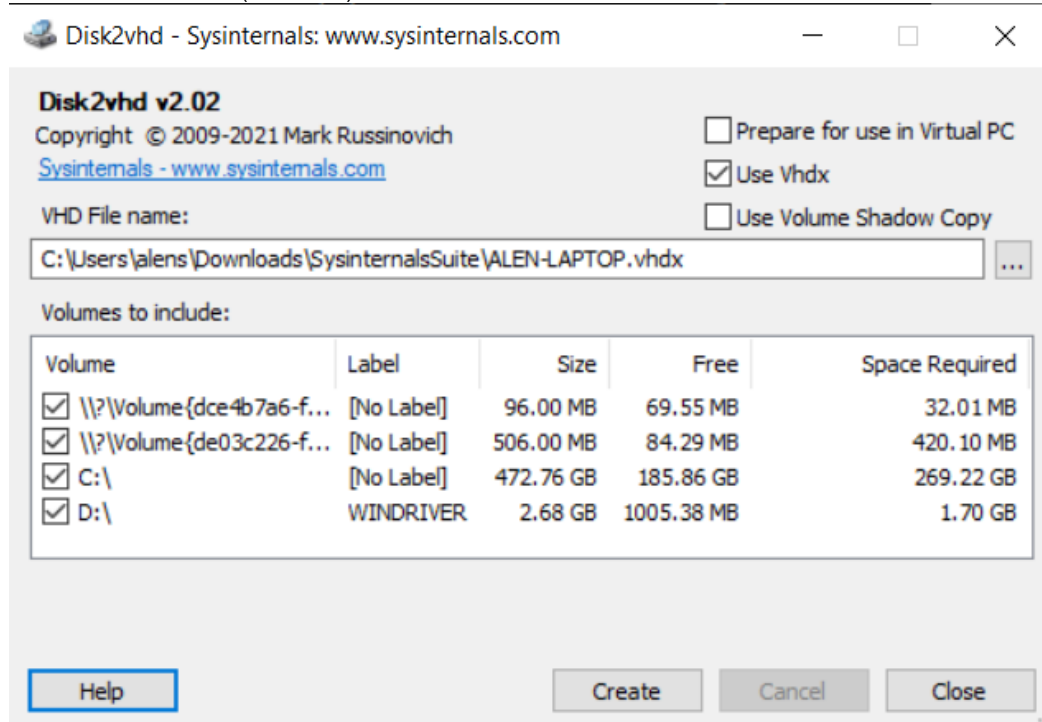
C:\Users\alens\MX6WLR>
```

j.) Rendezze ABC-szerint a felsorolas.txt file tartalmát.

```
C:\Users\alens\MX6WLR\fa>sort felsorolas.txt
Adam
Balazs
Bence
Sanyi
Tomi

C:\Users\alens\MX6WLR\fa>
```

a) File and Disk Utilities (Disk2vhd)



## b) Networking Utilities (TCPView)

TCPView - Sysinternals: www.sysinternals.com

File Edit View Process Connection Options Help

4 TCP v4 6 TCP v6 4 UDP v4 6 UDP v6 Search

Process Name	Process ID	Protocol	State	Local Address	Local Port	Remote Address
svchost.exe	1360	TCP	Listen	0.0.0.0	135	0.0.0.0
System	4	TCP	Listen	192.168.0.221	139	0.0.0.0
System	4	TCP	Listen	192.168.56.1	139	0.0.0.0
svchost.exe	7004	TCP	Listen	0.0.0.0	5040	0.0.0.0
uTorrent.exe	12244	TCP	Established	127.0.0.1	9911	127.0.0.1
uTorrent.exe	12244	TCP	Listen	0.0.0.0	30893	0.0.0.0
lsass.exe	1108	TCP	Listen	0.0.0.0	49664	0.0.0.0
wininit.exe	1016	TCP	Listen	0.0.0.0	49665	0.0.0.0
svchost.exe	1692	TCP	Listen	0.0.0.0	49666	0.0.0.0
svchost.exe	1904	TCP	Listen	0.0.0.0	49667	0.0.0.0
spoolsv.exe	3456	TCP	Listen	0.0.0.0	49668	0.0.0.0
services.exe	1088	TCP	Listen	0.0.0.0	49669	0.0.0.0
helper.exe	13000	TCP	Listen	127.0.0.1	50111	0.0.0.0
svchost.exe	4148	TCP	Established	192.168.0.221	62492	20.199.120.151
firefox.exe	11660	TCP	Established	127.0.0.1	62549	127.0.0.1
firefox.exe	11660	TCP	Established	127.0.0.1	62550	127.0.0.1
firefox.exe	2372	TCP	Established	127.0.0.1	62557	127.0.0.1
firefox.exe	2372	TCP	Established	127.0.0.1	62558	127.0.0.1
firefox.exe	7072	TCP	Established	127.0.0.1	62564	127.0.0.1
firefox.exe	7072	TCP	Established	127.0.0.1	62565	127.0.0.1
firefox.exe	13052	TCP	Established	127.0.0.1	62579	127.0.0.1
firefox.exe	13052	TCP	Established	127.0.0.1	62580	127.0.0.1
firefox.exe	11660	TCP	Established	192.168.0.221	62596	20.199.120.151

Endpoints: 109 Established: 37 Listening: 27 Time Wait: 3 Close Wait: Update: 2 sec States: (All)

Megmutatja hogy adott program milyen protocolon, milyen státuszban van illetve hogy milyen címen.

## Process Utilities (Process Explorer, Process Monitor, AutoRuns)

AutoRuns - Sysinternals: www.sysinternals.com

File Search Entry Options Category Help

Quick Filter

Applint Known DLLs WinLogon Winsock Providers Print Monitors LSA Providers Network Providers WMI Office

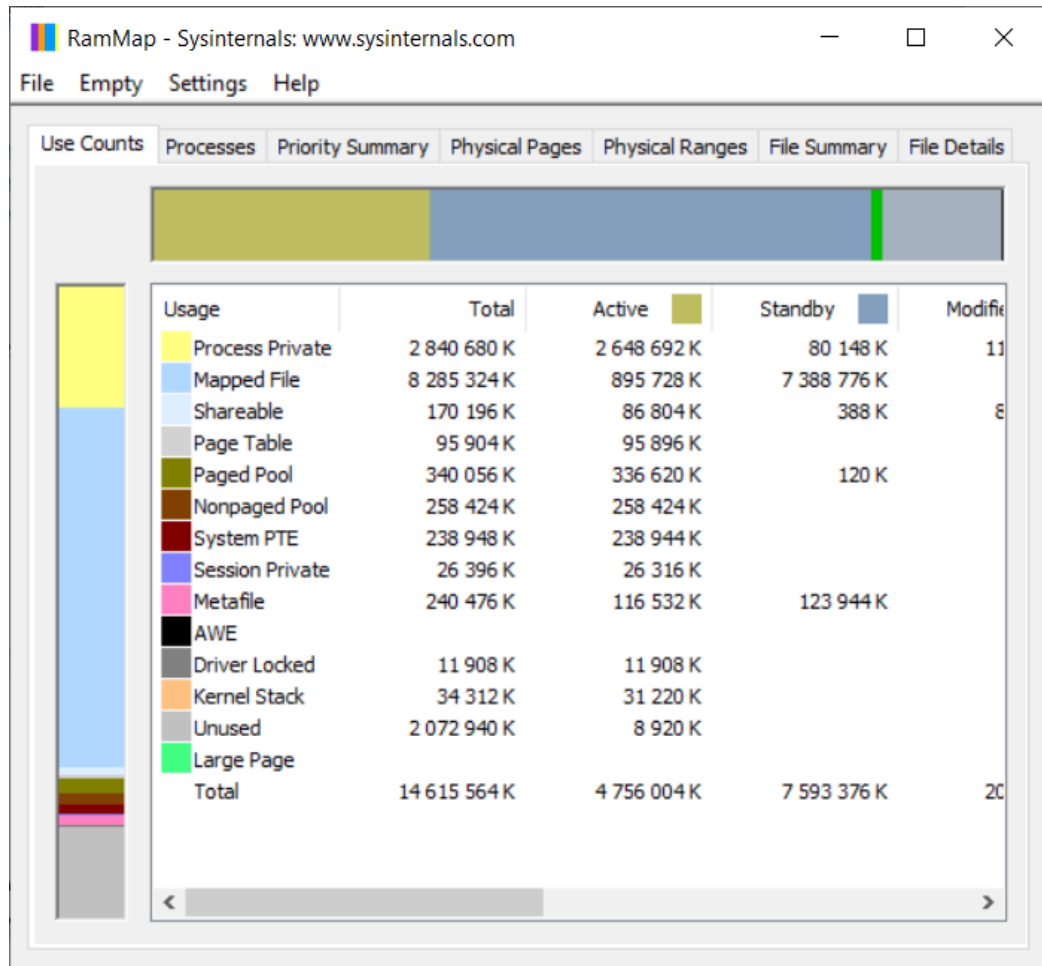
Everything Logon Explorer... Internet Explorer Scheduled Tasks... Services... Drivers... Codecs... Boot Execute Image Hijacks

Autoruns Entry	Description	Publisher	Image Path
Logon			
HKCU\SOFTWARE\Microsoft\Windows\CurrentVersion\Run			
btweb			File not found: "C:\Users\alens\AppData\Roaming\B...
com.squirrel.Teams.Teams	Microsoft Teams	(Verified) Microsoft 3rd Party Appl...	C:\Users\alens\AppData\Local\Microsoft\Teams\Upd...
Discord	Update	(Verified) Discord Inc.	C:\Users\alens\AppData\Local\Discord\Update.exe
OneDrive	Microsoft OneDrive	(Verified) Microsoft Corporation	C:\Users\alens\AppData\Local\Microsoft\OneDrive\C...
Steam	Steam	(Verified) Valve Corp.	C:\Program Files (x86)\Steam\steam.exe
ut	µTorrent	(Verified) BitTorrent Inc.	C:\Users\alens\AppData\Roaming\µTorrent\µTorrent...
Wargaming.net Game Center	Wargaming.net Game Center	(Verified) Wargaming.net Limited	C:\ProgramData\Wargaming.net\GameCenter\wgce...
HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Run			
RtkAudUService	Realtek HD Audio Universal Service	(Verified) Realtek Semiconductor C...	C:\Windows\System32\DriverStore\FileRepository\ve...
HKLM\SYSTEM\CurrentControlSet\Control\SafeBoot\AlternateShell			
cmd.exe	Windows Command Processor	(Verified) Microsoft Windows	C:\Windows\system32\cmd.exe
HKLM\SOFTWARE\Microsoft\Active Setup\Installed Components			

Scanning Known DLLs... Done. Press ESC to Cancel

Megmutatja adott processzek leírását illetve érélési helyét.

RamMap:



Ram kihasználtságot mutat.

NTLL DLL:



```
#include <stdio.h>
#include <stdlib.h>

int main()
{
    FILE * fPointer;
    fPointer = fopen("szabo.txt", "w");
    fprintf(fPointer, "Nev: Szabo Alen \nSzak: Programtervező \nNeptun: mx6wlr \n");
    fclose(fPointer);
    return 0;
}
```