

# **Operációs rendszerek BSc**

## **2.Gyak**

**02.15**

**Készítette: Kazsimér Marcell**

**Mérnökfinromatikus hallgató**

**T9CJ0Z**

1. **Feladat: Az első feladat az volt, hogy a gyakorlaton elvégzett feladat képernyőképeit feltöltsük. Ezek itt láthatóak:**

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.17134.1305]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\TEMP.IIT.000>cd T9C302
C:\Users\TEMP.IIT.000>cd T9C302
C:\Users\TEMP.IIT.000>T9C302>cd bokor
C:\Users\TEMP.IIT.000>T9C302>cd fa
C:\Users\TEMP.IIT.000>T9C302>cd land
C:\Users\TEMP.IIT.000>T9C302>cd bokor
C:\Users\TEMP.IIT.000>T9C302>bokor>cd banan
C:\Users\TEMP.IIT.000>T9C302>bokor>cd mogyoro
C:\Users\TEMP.IIT.000>T9C302>bokor>cd barack
C:\Users\TEMP.IIT.000>T9C302>bokor>cd..
C:\Users\TEMP.IIT.000>T9C302>cd fa
C:\Users\TEMP.IIT.000>T9C302>fax>cd korte
C:\Users\TEMP.IIT.000>T9C302>fax>cd..
C:\Users\TEMP.IIT.000>T9C302>cd land
C:\Users\TEMP.IIT.000>T9C302>land>cd szeder
C:\Users\TEMP.IIT.000>T9C302>land>cd kokusz
C:\Users\TEMP.IIT.000>T9C302>land>cd..
C:\Users\TEMP.IIT.000>T9C302>copy land fa
land\*
The system cannot find the file specified.
0 file(s) copied.
C:\Users\TEMP.IIT.000>T9C302>copy szeder fa
The system cannot find the file specified.
C:\Users\TEMP.IIT.000>T9C302>cd land
C:\Users\TEMP.IIT.000>T9C302>land>copy szeder fa
szeder\*
The system cannot find the file specified.
0 file(s) copied.
C:\Users\TEMP.IIT.000>T9C302>land>cd..
C:\Users\TEMP.IIT.000>T9C302>copy banan fa
The system cannot find the file specified.
C:\Users\TEMP.IIT.000>T9C302>cd bokor
C:\Users\TEMP.IIT.000>T9C302>bokor>copy banan fa
banan\*
The system cannot find the file specified.
0 file(s) copied.
```

```
C:\WINDOWS\system32\cmd.exe
C:\Users\TEMP.IIT.000>T9C302>bokor>cd..
C:\Users\TEMP.IIT.000>T9C302>cd bokor
C:\Users\TEMP.IIT.000>T9C302>bokor>move barack fa
1 dir(s) moved.
C:\Users\TEMP.IIT.000>T9C302>bokor>cd..
C:\Users\TEMP.IIT.000>T9C302>cd land
C:\Users\TEMP.IIT.000>T9C302>land>move kokusz fa
1 dir(s) moved.
C:\Users\TEMP.IIT.000>T9C302>land>cd..
C:\Users\TEMP.IIT.000>T9C302>cd bokor
C:\Users\TEMP.IIT.000>T9C302>bokor>del barack
Could Not Find C:\Users\TEMP.IIT.000\T9C302\bokor\barack
C:\Users\TEMP.IIT.000>T9C302>bokor>cd..
C:\Users\TEMP.IIT.000>T9C302>del land
C:\Users\TEMP.IIT.000>T9C302>land>*, Are you sure (Y/N)? y
C:\Users\TEMP.IIT.000>T9C302>cd bokor
C:\Users\TEMP.IIT.000>T9C302>bokor>cd banan
C:\Users\TEMP.IIT.000>T9C302>bokor>banan>type nul > leiras.txt
C:\Users\TEMP.IIT.000>T9C302>bokor>banan>cd..
C:\Users\TEMP.IIT.000>T9C302>bokor>cd..
C:\Users\TEMP.IIT.000>T9C302>cd fa
C:\Users\TEMP.IIT.000>T9C302>fax>type nul > felsorolas.txt
C:\Users\TEMP.IIT.000>T9C302>fax>cd..
C:\Users\TEMP.IIT.000>T9C302>cd bokor
C:\Users\TEMP.IIT.000>T9C302>bokor>cd banan
C:\Users\TEMP.IIT.000>T9C302>bokor>banan>cd leiras.txt
The directory name is invalid.
C:\Users\TEMP.IIT.000>T9C302>bokor>banan>cd..
C:\Users\TEMP.IIT.000>T9C302>bokor>cd banan
C:\Users\TEMP.IIT.000>T9C302>bokor>banan>cd banan
The system cannot find the path specified.
C:\Users\TEMP.IIT.000>T9C302>bokor>banan>echo sarga barack>leiras.txt
C:\Users\TEMP.IIT.000>T9C302>bokor>banan>"leiras.txt"
C:\Users\TEMP.IIT.000>T9C302>bokor>banan>cd..
```

```
C:\WINDOWS\system32\cmd.exe
C:\Users\TEMP.IIT.000\T9C30Z\bokorxcd..
C:\Users\TEMP.IIT.000\T9C30Z>cd fa
C:\Users\TEMP.IIT.000\T9C30Z\fa>echo magas fa>falsorolas.txt
C:\Users\TEMP.IIT.000\T9C30Z\fa>"magas fa"
"magas fa" is not recognized as an internal or external command,
operable program or batch file.
C:\Users\TEMP.IIT.000\T9C30Z\fa>""
"" is not recognized as an internal or external command,
operable program or batch file.
C:\Users\TEMP.IIT.000\T9C30Z\fa>"fa"
"fa" is not recognized as an internal or external command,
operable program or batch file.
C:\Users\TEMP.IIT.000\T9C30Z\fa>"falsorolas.txt"
C:\Users\TEMP.IIT.000\T9C30Z\fa>cd-
cd- is not recognized as an internal or external command,
operable program or batch file.
C:\Users\TEMP.IIT.000\T9C30Z\fa>cd..
C:\Users\TEMP.IIT.000\T9C30Z>dir neptunkod
Volume in drive C is Windows 10
Volume Serial Number is D4A7-7617
Directory of C:\Users\TEMP.IIT.000\T9C30Z
File Not Found
C:\Users\TEMP.IIT.000\T9C30Z>dir T9C30Z
Volume in drive C is Windows 10
Volume Serial Number is D4A7-7617
Directory of C:\Users\TEMP.IIT.000\T9C30Z
File Not Found
C:\Users\TEMP.IIT.000\T9C30Z>dir T9C30Z
Volume in drive C is Windows 10
Volume Serial Number is D4A7-7617
Directory of C:\Users\TEMP.IIT.000\T9C30Z
File Not Found
C:\Users\TEMP.IIT.000\T9C30Z>cd..
C:\Users\TEMP.IIT.000\T9C30Z>dir T9C30Z
Volume in drive C is Windows 10
Volume Serial Number is D4A7-7617
Directory of C:\Users\TEMP.IIT.000\T9C30Z
2022. 02. 16. 12:18 <DIR> .
2022. 02. 16. 12:18 <DIR> ..
2022. 02. 16. 12:30 <DIR> bokor
2022. 02. 16. 12:37 <DIR> fa
2022. 02. 16. 12:31 <DIR> land
0 File(s) 0 bytes
5 Dir(s) 66 653 405 184 bytes free
```

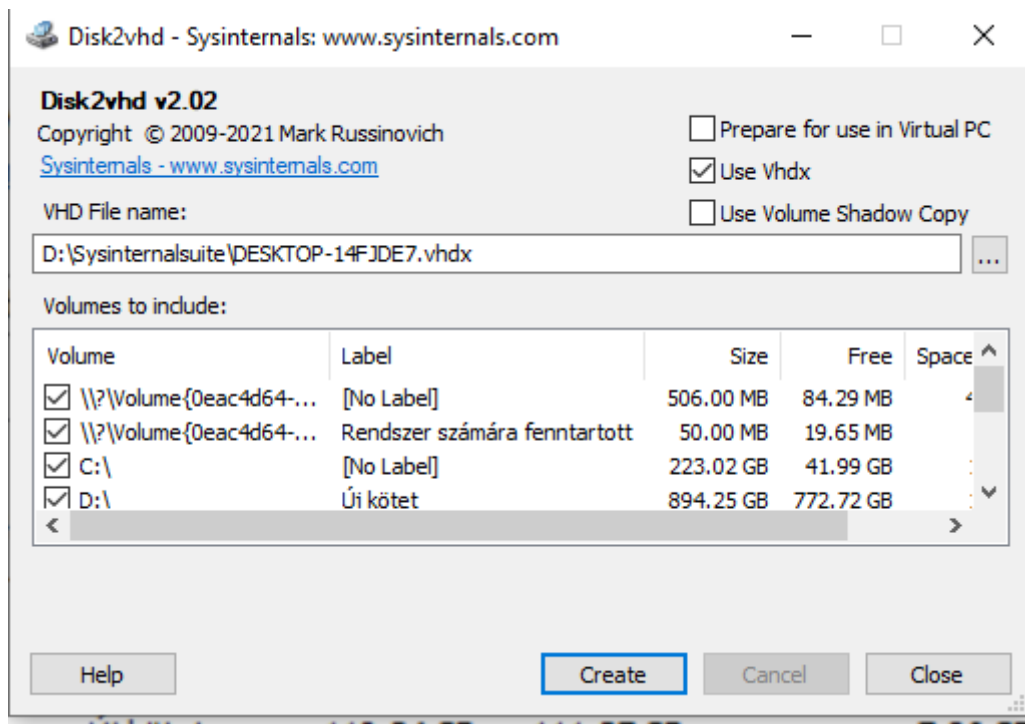
```
C:\Users\TEMP.IIT.000\T9C30Z>dir T9C30Z
Volume in drive C is Windows 10
Volume Serial Number is D4A7-7617
Directory of C:\Users\TEMP.IIT.000\T9C30Z
2022. 02. 16. 12:18 <DIR> .
2022. 02. 16. 12:18 <DIR> ..
2022. 02. 16. 12:30 <DIR> bokor
2022. 02. 16. 12:37 <DIR> fa
2022. 02. 16. 12:31 <DIR> land
0 File(s) 0 bytes
5 Dir(s) 66 653 405 184 bytes free
Directory of C:\Users\TEMP.IIT.000\T9C30Z\bokor
2022. 02. 16. 12:30 <DIR> .
2022. 02. 16. 12:30 <DIR> ..
2022. 02. 16. 12:36 <DIR> banan
2022. 02. 16. 12:20 <DIR> fa
2022. 02. 16. 12:20 <DIR> mogyoro
0 File(s) 0 bytes
5 Dir(s) 66 653 405 184 bytes free
Directory of C:\Users\TEMP.IIT.000\T9C30Z\bokor\banan
2022. 02. 16. 12:36 <DIR> .
2022. 02. 16. 12:36 <DIR> ..
2022. 02. 16. 12:43 94 leiras.txt
1 File(s) 94 bytes
5 Dir(s) 66 653 405 184 bytes free
Directory of C:\Users\TEMP.IIT.000\T9C30Z\bokor\fa
2022. 02. 16. 12:20 <DIR> .
2022. 02. 16. 12:20 <DIR> ..
0 File(s) 0 bytes
5 Dir(s) 66 653 405 184 bytes free
Directory of C:\Users\TEMP.IIT.000\T9C30Z\bokor\mogyoro
2022. 02. 16. 12:20 <DIR> .
2022. 02. 16. 12:20 <DIR> ..
0 File(s) 0 bytes
5 Dir(s) 66 653 405 184 bytes free
Directory of C:\Users\TEMP.IIT.000\T9C30Z\fa
2022. 02. 16. 12:37 <DIR> .
2022. 02. 16. 12:37 <DIR> ..
2022. 02. 16. 12:45 39 falsorolas.txt
2022. 02. 16. 12:21 <DIR> korte
1 File(s) 39 bytes
5 Dir(s) 66 653 405 184 bytes free
Directory of C:\Users\TEMP.IIT.000\T9C30Z\fa\korte
2022. 02. 16. 12:21 <DIR> .
2022. 02. 16. 12:21 <DIR> ..
0 File(s) 0 bytes
5 Dir(s) 66 653 405 184 bytes free
Directory of C:\Users\TEMP.IIT.000\T9C30Z\land
2022. 02. 16. 12:31 <DIR> .
2022. 02. 16. 12:31 <DIR> ..
```



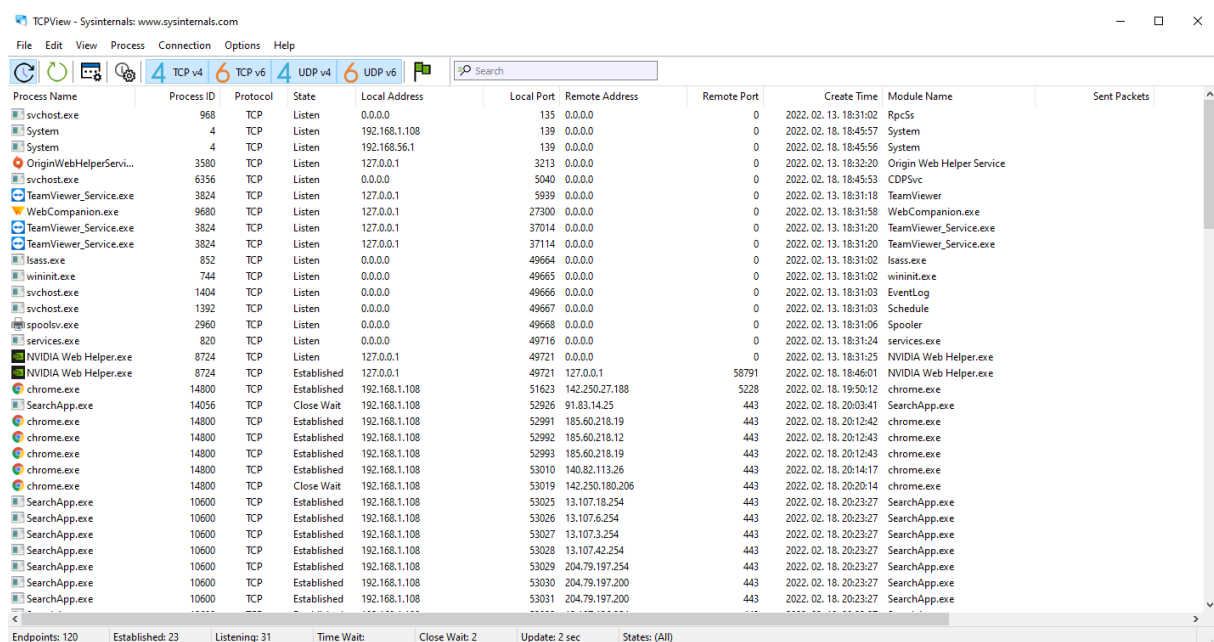
```
C:\WINDOWS\system32\cmd.exe
C:\Users\TEMP.IIT.000\AppData\Roaming\Microsoft\Windows\Templates
C:\Users\TEMP.IIT.000\AppData\Roaming\Microsoft\Windows\Recent\CustomDestinations\7e4dca80246863e3.customDestinations-msC:\Users\TEMP.IIT.000\AppData\Roaming\Microsoft\Windows\SendTo\Desktop (create shortcut).Desktoplink
C:\Users\TEMP.IIT.000\AppData\Roaming\Mozilla\Firefox\Pending Pings
C:\Users\TEMP.IIT.000\Links\Desktop.lnk
C:\Users\TEMP.IIT.000\T9C302\bokor\banan\leiras.txt
C:\Users\TEMP.IIT.000\T9C302\fa\felisorolas.txt
C:\Users\TEMP.IIT.000\T9C302
C:\Users\TEMP.IIT.000\T9C302\cd T9C302
C:\Users\TEMP.IIT.000\T9C302\dir /b/s %* .txt
C:\Users\TEMP.IIT.000\T9C302\bokor\banan\leiras.txt
C:\Users\TEMP.IIT.000\T9C302\fa\felisorolas.txt
C:\Users\TEMP.IIT.000\T9C302\icacls felisorolas.txt /grant everyone
Invalid parameter "everyone"
C:\Users\TEMP.IIT.000\T9C302\icacls felisorolas.txt /grant Everyone
Invalid parameter "Everyone"
C:\Users\TEMP.IIT.000\T9C302\icacls felisorolas.txt /grant Everyone :R
Invalid parameter "Everyone"
C:\Users\TEMP.IIT.000\T9C302\icacls felisorolas.txt /grant Everyone:(R)
felisorolas.txt: The system cannot find the file specified.
Successfully processed 0 files; Failed processing 1 files
C:\Users\TEMP.IIT.000\T9C302\cd fa
C:\Users\TEMP.IIT.000\T9C302\fa\icacls felisorolas.txt /grant Everyone:(R)
'icacls' is not recognized as an internal or external command,
operable program or batch file.
C:\Users\TEMP.IIT.000\T9C302\fa\icacls felisorolas.txt /grant Everyone:(R)
processed file: felisorolas.txt
Successfully processed 1 files; Failed processing 0 files
C:\Users\TEMP.IIT.000\T9C302\fa\cd..
C:\Users\TEMP.IIT.000\T9C302\cd..
C:\Users\TEMP.IIT.000\dir /a /on T9C302
Volume in drive C is Windows 10
Volume Serial Number is 04A7-7617
Directory of C:\Users\TEMP.IIT.000\T9C302
2022. 02. 16. 12:18 <DIR> .
2022. 02. 16. 12:18 <DIR> ..
2022. 02. 16. 12:18 <DIR> bokor
2022. 02. 16. 12:17 <DIR> fa
2022. 02. 16. 12:11 <DIR> land
0 File(s) 0 bytes
Directory of C:\Users\TEMP.IIT.000\T9C302\bokor
2022. 02. 16. 12:30 <DIR> .
2022. 02. 16. 12:30 <DIR> ..
2022. 02. 16. 12:30 <DIR> banan
2022. 02. 16. 12:29 <DIR> fa
2022. 02. 16. 12:29 <DIR> mogyoro
0 File(s) 0 bytes
Directory of C:\Users\TEMP.IIT.000\T9C302\bokor\banan
2022. 02. 16. 12:36 <DIR> .
2022. 02. 16. 12:36 <DIR> ..
2022. 02. 16. 12:43 <FILE> 94 leiras.txt
1 File(s) 94 bytes
Directory of C:\Users\TEMP.IIT.000\T9C302\bokor\fa
2022. 02. 16. 12:20 <DIR> .
2022. 02. 16. 12:20 <DIR> ..
0 File(s) 0 bytes
Directory of C:\Users\TEMP.IIT.000\T9C302\bokor\mogyoro
2022. 02. 16. 12:20 <DIR> .
2022. 02. 16. 12:20 <DIR> ..
0 File(s) 0 bytes
Directory of C:\Users\TEMP.IIT.000\T9C302\fa
2022. 02. 16. 12:37 <DIR> .
2022. 02. 16. 12:37 <DIR> ..
2022. 02. 16. 12:45 <FILE> 39 felisorolas.txt
2022. 02. 16. 12:21 <DIR> korte
1 File(s) 39 bytes
Directory of C:\Users\TEMP.IIT.000\T9C302\fa\korte
2022. 02. 16. 12:21 <DIR> .
2022. 02. 16. 12:21 <DIR> ..
0 File(s) 0 bytes
Directory of C:\Users\TEMP.IIT.000\T9C302\land
2022. 02. 16. 12:31 <DIR> .
2022. 02. 16. 12:31 <DIR> ..
2022. 02. 16. 12:21 <DIR> fa
2022. 02. 16. 12:21 <DIR> szeder
0 File(s) 0 bytes
Directory of C:\Users\TEMP.IIT.000\T9C302\land\fa
2022. 02. 16. 12:21 <DIR> .
2022. 02. 16. 12:21 <DIR> ..
0 File(s) 0 bytes
Directory of C:\Users\TEMP.IIT.000\T9C302\land\szeder
2022. 02. 16. 12:21 <DIR> .
2022. 02. 16. 12:21 <DIR> ..
0 File(s) 0 bytes
Total Files Listed:
2 File(s) 133 bytes
29 Dir(s) 46 587 398 144 bytes free
C:\Users\TEMP.IIT.000\cd T9C302
C:\Users\TEMP.IIT.000\T9C302\cd fa
C:\Users\TEMP.IIT.000\T9C302\fa\sort felisorolas.txt
fa\ls
fa\ls /nt
```

```
C:\WINDOWS\system32\cmd.exe
2022. 02. 16. 12:36 <DIR> .
2022. 02. 16. 12:36 <DIR> ..
2022. 02. 16. 12:43 <FILE> 94 leiras.txt
1 File(s) 94 bytes
Directory of C:\Users\TEMP.IIT.000\T9C302\bokor\fa
2022. 02. 16. 12:20 <DIR> .
2022. 02. 16. 12:20 <DIR> ..
0 File(s) 0 bytes
Directory of C:\Users\TEMP.IIT.000\T9C302\bokor\mogyoro
2022. 02. 16. 12:20 <DIR> .
2022. 02. 16. 12:20 <DIR> ..
0 File(s) 0 bytes
Directory of C:\Users\TEMP.IIT.000\T9C302\fa
2022. 02. 16. 12:37 <DIR> .
2022. 02. 16. 12:37 <DIR> ..
2022. 02. 16. 12:45 <FILE> 39 felisorolas.txt
2022. 02. 16. 12:21 <DIR> korte
1 File(s) 39 bytes
Directory of C:\Users\TEMP.IIT.000\T9C302\fa\korte
2022. 02. 16. 12:21 <DIR> .
2022. 02. 16. 12:21 <DIR> ..
0 File(s) 0 bytes
Directory of C:\Users\TEMP.IIT.000\T9C302\land
2022. 02. 16. 12:31 <DIR> .
2022. 02. 16. 12:31 <DIR> ..
2022. 02. 16. 12:21 <DIR> fa
2022. 02. 16. 12:21 <DIR> szeder
0 File(s) 0 bytes
Directory of C:\Users\TEMP.IIT.000\T9C302\land\fa
2022. 02. 16. 12:21 <DIR> .
2022. 02. 16. 12:21 <DIR> ..
0 File(s) 0 bytes
Directory of C:\Users\TEMP.IIT.000\T9C302\land\szeder
2022. 02. 16. 12:21 <DIR> .
2022. 02. 16. 12:21 <DIR> ..
0 File(s) 0 bytes
Total Files Listed:
2 File(s) 133 bytes
29 Dir(s) 46 587 398 144 bytes free
C:\Users\TEMP.IIT.000\cd T9C302
C:\Users\TEMP.IIT.000\T9C302\cd fa
C:\Users\TEMP.IIT.000\T9C302\fa\sort felisorolas.txt
fa\ls
fa\ls /nt
```





## b) Networking Utilities (TCPView)



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



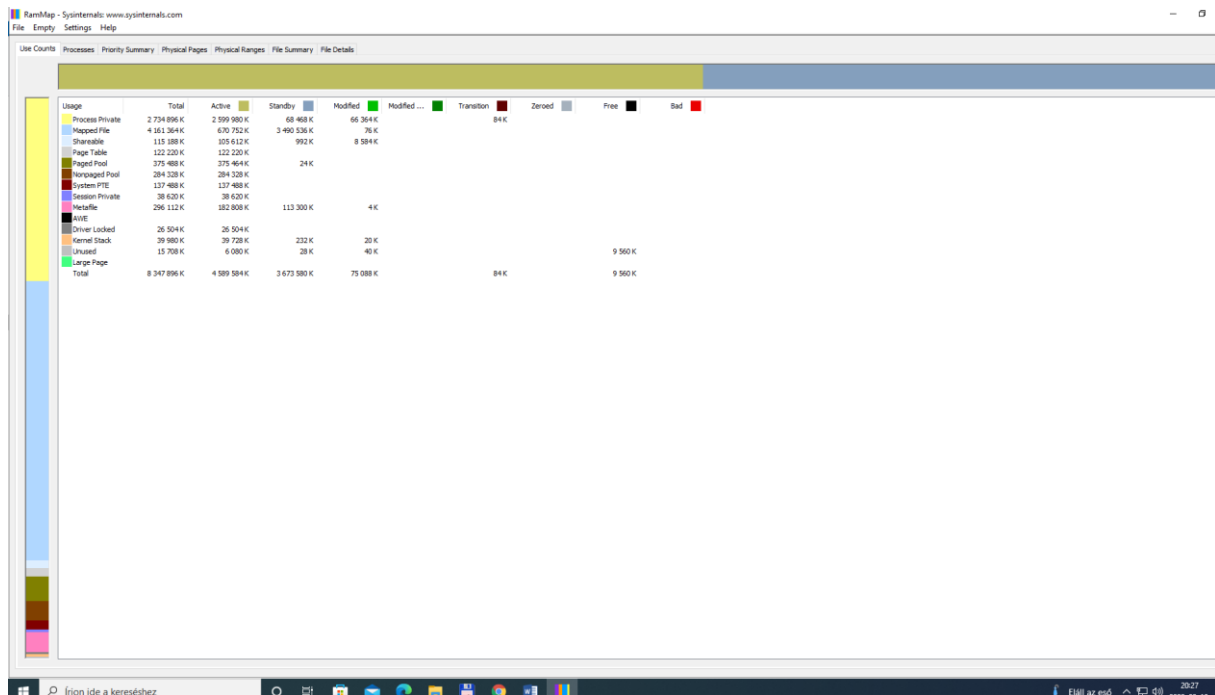
Process Explorer - Sysinternals: www.sysinternals.com [DESKTOP-14FJDE7\marce]

File Options View Process Find Users Help

Process	CPU	Private Bytes	Working Set	PID	Description	Company Name
Registry		9 292 K	32 952 K	108		
System Idle Process	70.70	60 K	8 K	0		
System	0.84	220 K	3 744 K	4		
Interrupts	0.56	0 K	0 K	n/a	Hardware Interrupts and DPCs	
smss.exe		1 092 K	224 K	484		
Memory Compression	< 0.01	2 572 K	251 628 K	2088		
csrss.exe	< 0.01	1 904 K	1 728 K	656		
wininit.exe		1 428 K	80 K	744		
services.exe	0.28	5 624 K	5 812 K	820		
svchost.exe	< 0.01	14 896 K	20 956 K	464	Windows-szolgáltatások gaz...	Microsoft Corporation
SettingSyncHost.exe		18 432 K	4 412 K	6620	Host Process for Setting Syn...	Microsoft Corporation
StartMenuExperience...	< 0.01	55 568 K	66 800 K	6312		
RuntimeBroker.exe		6 768 K	14 160 K	7440	Runtime Broker	Microsoft Corporation
RuntimeBroker.exe		15 000 K	28 252 K	7336	Runtime Broker	Microsoft Corporation
YourPhone.exe	Susp...	54 632 K	23 396 K	8984		Microsoft Corporation
LockApp.exe	Susp...	34 300 K	22 912 K	9648	LockApp.exe	Microsoft Corporation
RuntimeBroker.exe		8 268 K	19 256 K	9812	Runtime Broker	Microsoft Corporation
TextInputHost.exe	< 0.01	32 836 K	13 228 K	10932		Microsoft Corporation
RuntimeBroker.exe		3 624 K	10 488 K	10608	Runtime Broker	Microsoft Corporation
ShellExperienceHost...	Susp...	46 148 K	64 620 K	12600	Windows Shell Experience H...	Microsoft Corporation
RuntimeBroker.exe	< 0.01	6 040 K	13 668 K	7372	Runtime Broker	Microsoft Corporation
ApplicationFrameHost...		19 532 K	26 196 K	12024	Application Frame Host	Microsoft Corporation
UserOOBEBroker.exe	< 0.01	2 096 K	3 880 K	10004	User OOBEBroker	Microsoft Corporation
SearchApp.exe	Susp...	303 068 K	13 936 K	5668	Search application	Microsoft Corporation
dllhost.exe	< 0.01	4 532 K	7 412 K	9840	COM Surrogate	Microsoft Corporation
YourPhoneServer.exe	< 0.01	39 100 K	12 916 K	1348		
MoUsocoreWorker.exe		31 836 K	25 964 K	7380		
Calculator.exe	Susp...	41 052 K	1 060 K	4648		
RuntimeBroker.exe		1 604 K	1 008 K	11592	Runtime Broker	Microsoft Corporation
dllhost.exe	< 0.01	4 208 K	7 960 K	2024	COM Surrogate	Microsoft Corporation
SearchApp.exe	Susp...	182 348 K	200 748 K	14056	Search application	Microsoft Corporation
Video.UI.exe	Susp...	39 348 K	5 932 K	13924		
Microsoft.Photos.exe	Susp...	74 876 K	44 336 K	5504		
RuntimeBroker.exe		11 904 K	21 948 K	6536	Runtime Broker	Microsoft Corporation
RuntimeBroker.exe		7 600 K	17 660 K	11888	Runtime Broker	Microsoft Corporation
RuntimeBroker.exe		1 456 K	1 408 K	13100	Runtime Broker	Microsoft Corporation
SystemSettings.exe	Susp...	43 096 K	3 476 K	6576	Gépház	Microsoft Corporation
SearchApp.exe	< 0.01	125 748 K	173 508 K	10600	Search application	Microsoft Corporation
smartscreen.exe		8 180 K	23 980 K	3836	Windows Defender SmartScr...	Microsoft Corporation
backgroundTaskHost...	Susp...	4 212 K	19 916 K	7152	Background Task Host	Microsoft Corporation
RuntimeBroker.exe		2 108 K	12 960 K	10520	Runtime Broker	Microsoft Corporation
WmiPrvSE.exe		2 268 K	9 208 K	7692		
FileCoAuth.exe	1.12	4 776 K	17 856 K	15624	Microsoft OneDriveFile Co-A...	Microsoft Corporation
svchost.exe	0.28	11 448 K	13 828 K	968	Windows-szolgáltatások gaz...	Microsoft Corporation
svchost.exe	< 0.01	2 760 K	3 300 K	1060	Windows-szolgáltatások gaz...	Microsoft Corporation
svchost.exe		2 244 K	3 820 K	1232	Windows-szolgáltatások gaz...	Microsoft Corporation
svchost.exe		1 564 K	1 700 K	1312	Windows-szolgáltatások gaz...	Microsoft Corporation
svchost.exe		2 064 K	4 188 K	1332	Windows-szolgáltatások gaz...	Microsoft Corporation
svchost.exe		6 464 K	8 260 K	1392	Windows-szolgáltatások gaz...	Microsoft Corporation
taskhostw.exe	< 0.01	17 880 K	17 916 K	4468	Gazdafolyamat Windows-fela...	Microsoft Corporation
taskhostw.exe		8 128 K	3 796 K	5232		
svchost.exe		16 176 K	10 756 K	1404	Windows-szolgáltatások gaz...	Microsoft Corporation
svchost.exe		4 096 K	4 688 K	1484	Windows-szolgáltatások gaz...	Microsoft Corporation
svchost.exe	< 0.01	2 896 K	5 776 K	1588	Windows-szolgáltatások gaz...	Microsoft Corporation
sihost.exe	< 0.01	20 676 K	25 372 K	4676	Shell Infrastructure Host	Microsoft Corporation
svchost.exe	< 0.01	5 792 K	3 472 K	1624	Windows-szolgáltatások gaz...	Microsoft Corporation
svchost.exe	< 0.01	1 700 K	1 816 K	1676	Windows-szolgáltatások gaz...	Microsoft Corporation
svchost.exe	< 0.01	2 564 K	3 432 K	1700	Windows-szolgáltatások gaz...	Microsoft Corporation

d) Security Utilities (LogonSession)

e) Information Utilities (RAMMap)

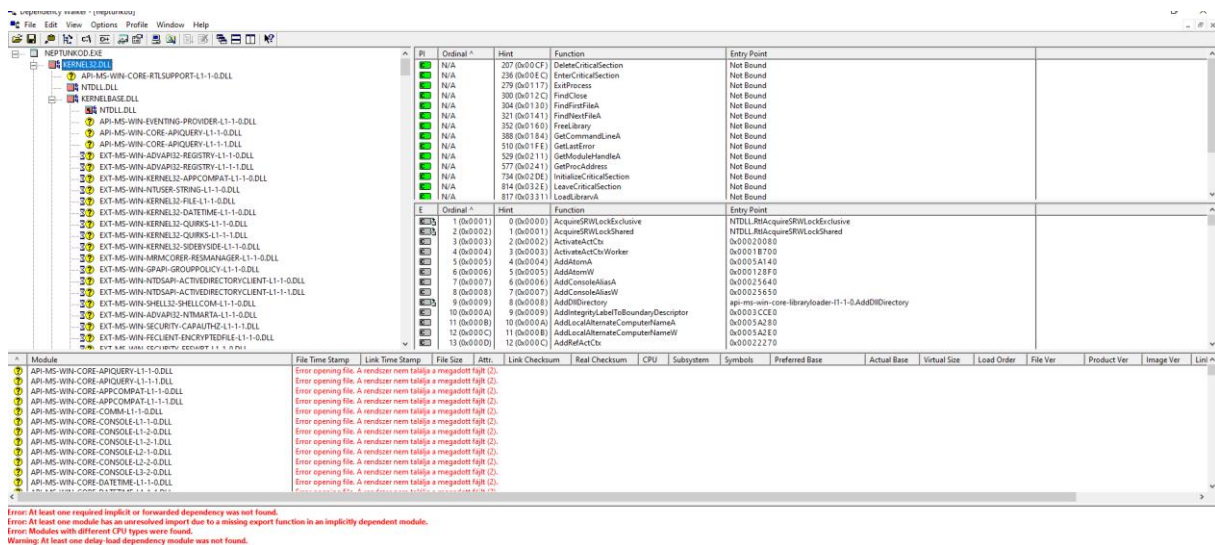


**3.Feladat: A Dependency Walker letöltése. Készítsen egy neptunkod.c nevű forráskódot, amely egy vezeteknev.txt fájlt létrehoz, olvas, majd bezár. Tartalma: Név, Szak, Neptunkod etc. Fordítsa le kódot a C fordító, majd tegye futtathatóvá az állományt: neptunkod.exe A Dependency Walker segítségével végezze el a következő feladatokat. Nyissa meg a neptunkod.exe fájlt! a.) Vizsgálja meg, hogy a neptunkod.exe milyen API hívásokat használ a kernel32.dll-ből (Win alrendszer DLL)! b.) Keresse meg NTDLL.DLL-t! Mi ennek a szerepe? Vizsgálja meg az exportált függvényeket, milyen információkat kap az NT API-ról! „ Mentés: Írja le a program szolgáltatásait és a futtatás eredményét a feladat számával a megadott jegyzőkönyvbe (képernyőkép is).**

# Képe a Dependency Walkerről:



a, Vizsgálja meg, hogy a neptunkod.exe milyen API hívásokat használ a kernel32.dll-ből (Win alrendszer DLL)!



b.) Keresse meg NTDLL.DLL-t! Mi ennek a szerepe? Vizsgálja meg az exportált függvényeket, milyen információkat kap az NT API-ról!

Dependency Walker - [NTDLL.DLL]

File Edit View Options Profile Window Help

NTDLL.DLL

Pi	Ordinal ^	Hint	Function	Entry Point
E	Ordinal ^	Hint	Function	Entry Point
8 (0x0008)	N/A	N/A		0x0077F110
9 (0x0009)	0 (0x0000)	A_SHAFinal		0x00040230
10 (0x000A)	1 (0x0001)	A_SHAInit		0x00041060
11 (0x000B)	2 (0x0002)	A_SHAUpdate		0x000410A0
12 (0x000C)	3 (0x0003)	AlpcAdjustCompletionListConcurrencyCount		0x000E0740
13 (0x000D)	4 (0x0004)	AlpcFreeCompletionListMessage		0x00070620
14 (0x000E)	5 (0x0005)	AlpcGetCompletionListMessageInformation		0x000E0770
15 (0x000F)	6 (0x0006)	AlpcGetCompletionListMessageAttributes		0x000E0790
16 (0x0010)	7 (0x0007)	AlpcGetHeaderSize		0x00070350
17 (0x0011)	8 (0x0008)	AlpcGetMessageAttribute		0x00070310
18 (0x0012)	9 (0x0009)	AlpcGetMessageFromCompletionList		0x00010A60
19 (0x0013)	10 (0x000A)	AlpcGetOutstandingCompletionListMessageCount		0x00035C40
20 (0x0014)	11 (0x000B)	AlpcIndicateMessageAttribute		0x000702B0

Module	File Time Stamp	Link Time Stamp	File Size	Attr.	Link Checksum	Real Checksum	CPU	Subsystem	Symbols	Preferred Base	Actual Base	Virtual Size	Load Order	File Ver	Product Ver	Image Ver	Linker Ver	OS Ver	Subsystem Ver
NTDLL.DLL	2021/10/16 18:58	2056/05/24 0:48	2 024 736	A	0x001F842B	0x001F842B	x64	Console	CV:Unknown	0x0000000180000000	Unknown	0x001F5000	Not Loaded	10.0.19041.1288	10.0.19041.1288	10.0	14.20	10.0	10.0

**Szerepe:** Az NTDLL.DLL a rendszerkönyvtár, amely felelős az operációs rendszer mozgatásáért, másolásáért, összehasonlításáért és más hasonló műveleteiért.