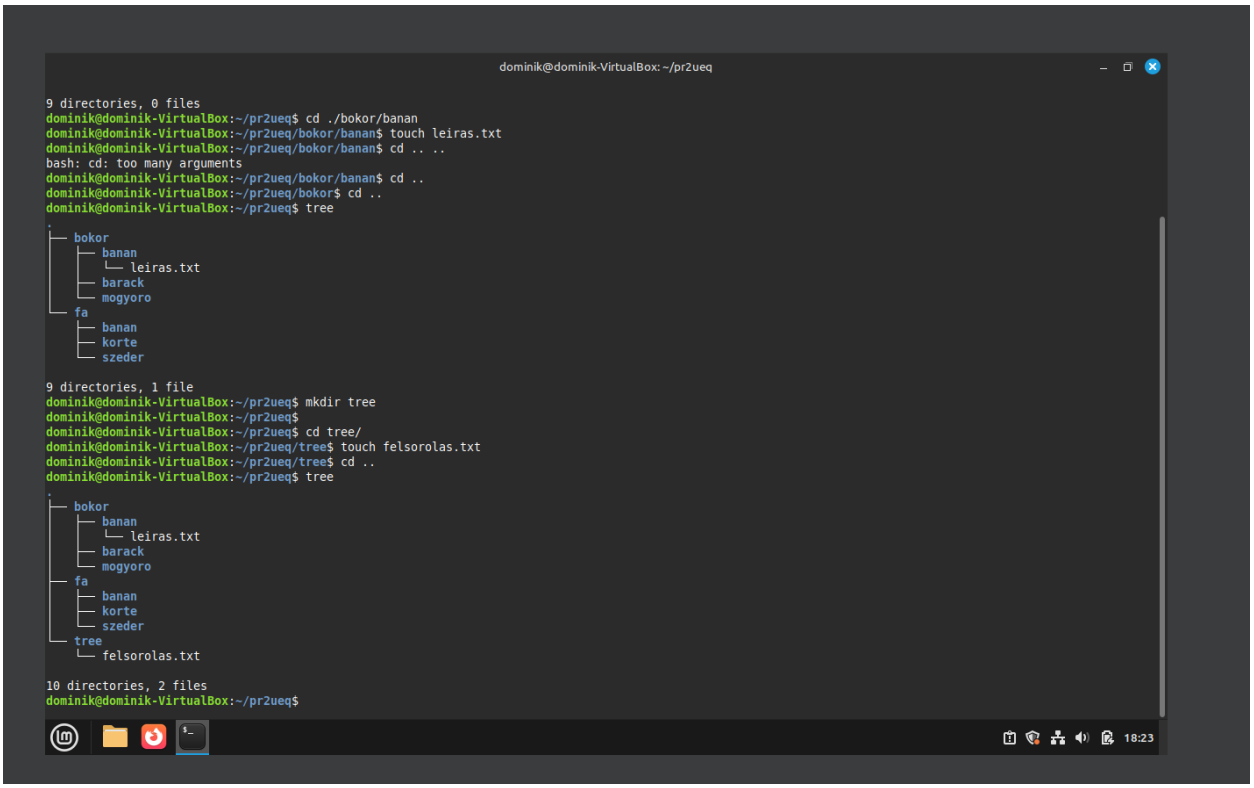
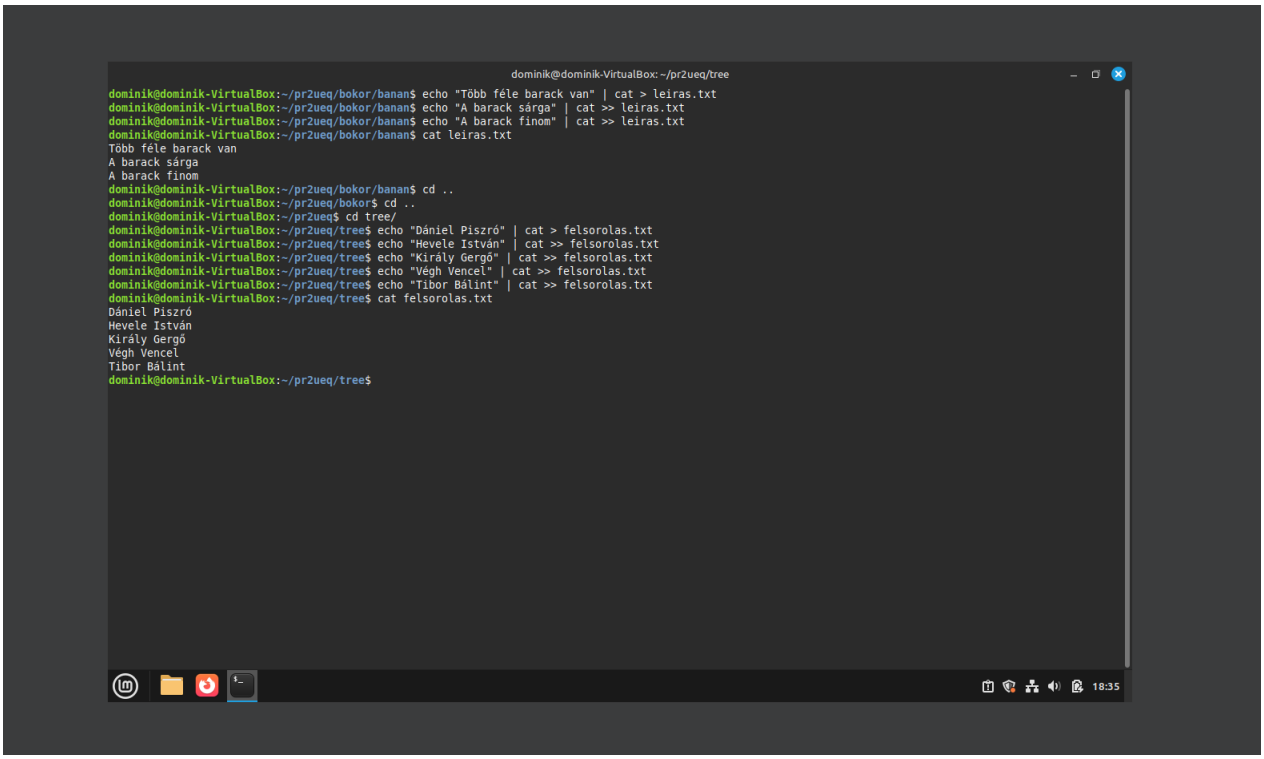
1.

```
dominik@dominik-VirtualBox:~/pr2ueq$ mcopy ./land/szeder pr2ueq/fa
Failure to make directory pr2ueq/fa: No such file or directory
dominik@dominik-VirtualBox:~/pr2ueq$ mcopy ./land/szeder ./fa
dominik@dominik-VirtualBox:~/pr2ueq$ cd fa
dominik@dominik-VirtualBox:~/pr2ueq/fa$ ls
korte  szeder
dominik@dominik-VirtualBox:~/pr2ueq/fa$ mcopy ./bokor/banan ./fa
./bokor/banan: No such file or directory
dominik@dominik-VirtualBox:~/pr2ueq/fa$ tree
Command 'tree' not found, but can be installed with:
sudo apt install tree
dominik@dominik-VirtualBox:~/pr2ueq/fa$ cd ..
dominik@dominik-VirtualBox:~/pr2ueq$ mcopy ./bokor/banan ./fa
dominik@dominik-VirtualBox:~/pr2ueq$ cd ..
dominik@dominik-VirtualBox:~$ tree
Command 'tree' not found, but can be installed with:
sudo apt install tree
dominik@dominik-VirtualBox:~$ sudo apt install tree
[sudo] password for dominik:
```

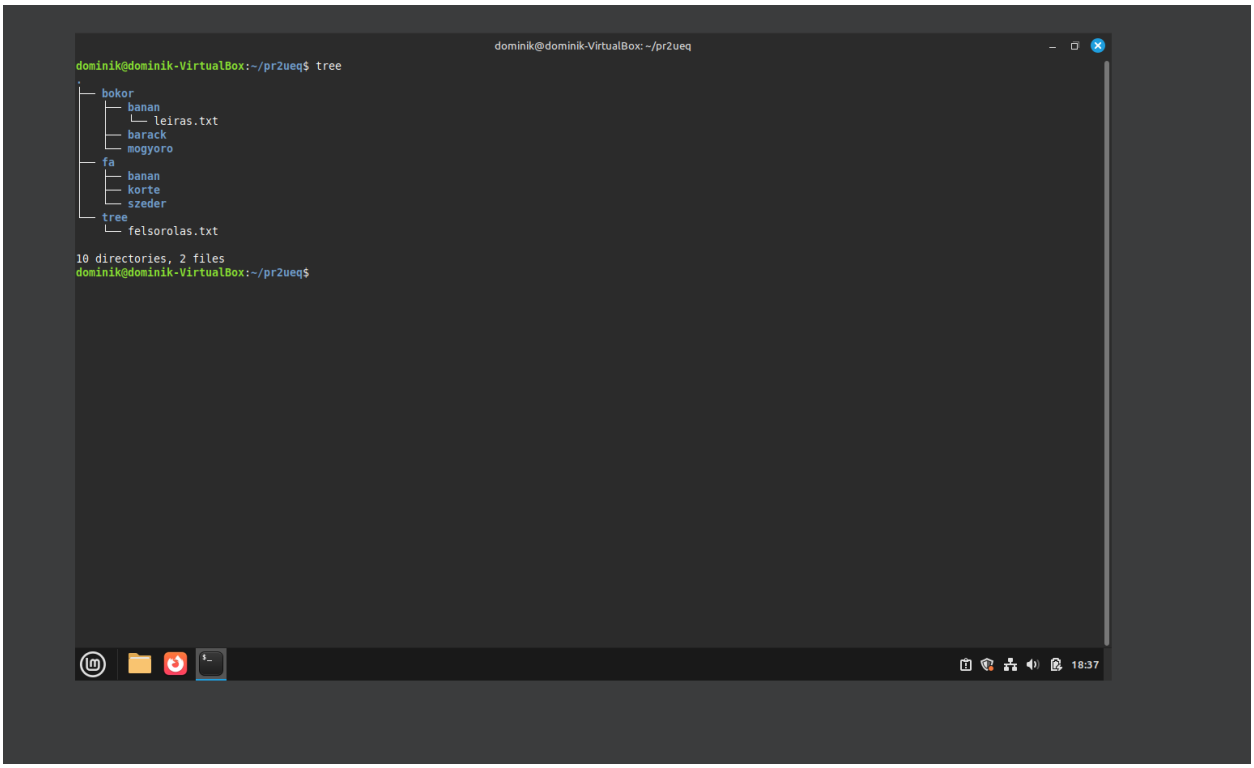
2



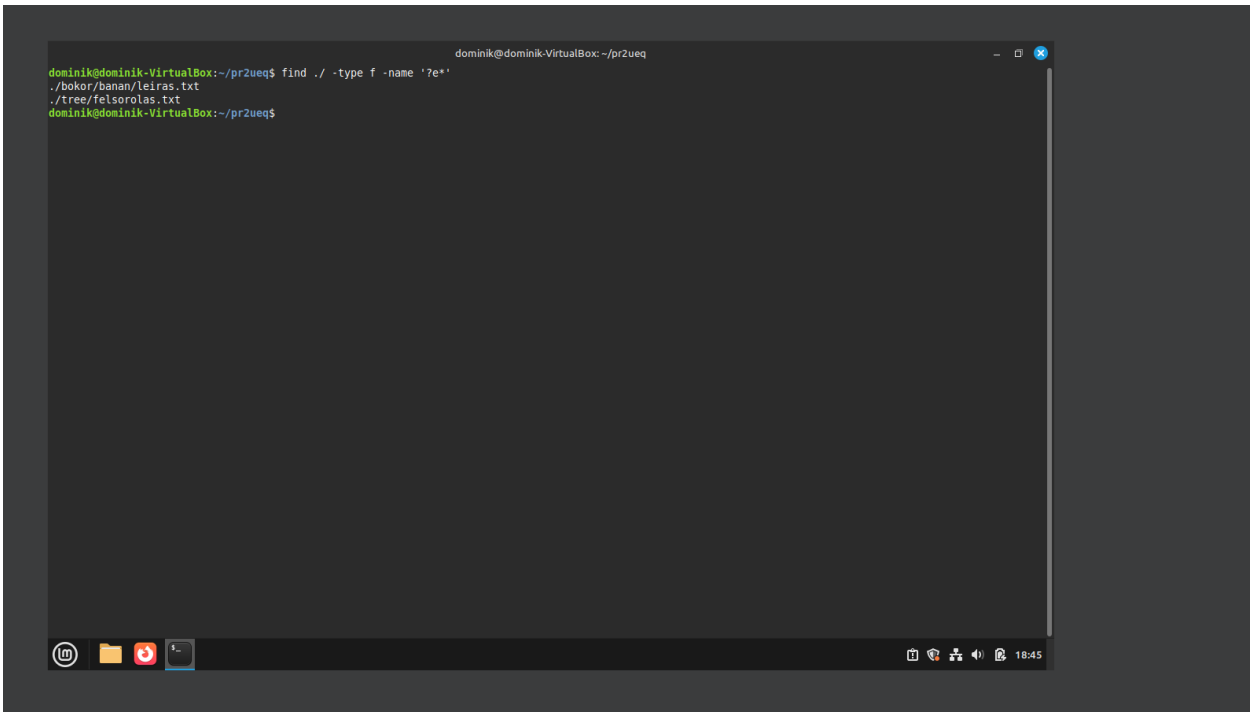
3


dominik@dominik-VirtualBox: ~/pr2ueq/tree
dominik@dominik-VirtualBox:~/pr2ueq/bokor/banan$ echo "Több féle barack van" | cat > leiras.txt
dominik@dominik-VirtualBox:~/pr2ueq/bokor/banan$ echo "A barack sárga" | cat >> leiras.txt
dominik@dominik-VirtualBox:~/pr2ueq/bokor/banan$ echo "A barack finom" | cat >> leiras.txt
dominik@dominik-VirtualBox:~/pr2ueq/bokor/banan$ cat leiras.txt
Több féle barack van
A barack sárga
A barack finom
dominik@dominik-VirtualBox:~/pr2ueq/bokor/banan$ cd ..
dominik@dominik-VirtualBox:~/pr2ueq/bokor$ cd ..
dominik@dominik-VirtualBox:~/pr2ueq$ cd tree/
dominik@dominik-VirtualBox:~/pr2ueq/tree$ echo "Dániel Piszró" | cat > felsorolas.txt
dominik@dominik-VirtualBox:~/pr2ueq/tree$ echo "Hevele István" | cat >> felsorolas.txt
dominik@dominik-VirtualBox:~/pr2ueq/tree$ echo "Király Gergő" | cat >> felsorolas.txt
dominik@dominik-VirtualBox:~/pr2ueq/tree$ echo "Végh Vencel" | cat >> felsorolas.txt
dominik@dominik-VirtualBox:~/pr2ueq/tree$ echo "Tibor Bálint" | cat >> felsorolas.txt
dominik@dominik-VirtualBox:~/pr2ueq/tree$ cat felsorolas.txt
Dániel Piszró
Hevele István
Király Gergő
Végh Vencel
Tibor Bálint
dominik@dominik-VirtualBox:~/pr2ueq/tree$
18:35

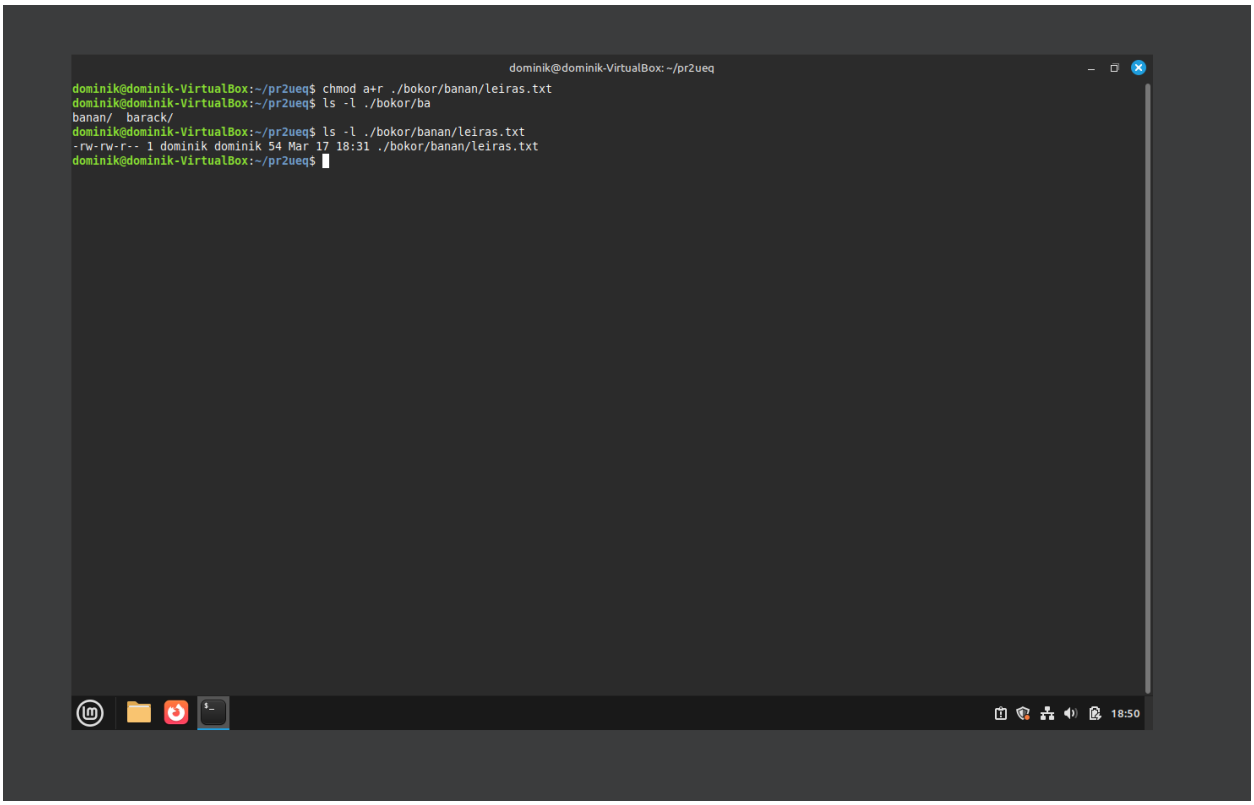
4


dominik@dominik-VirtualBox: ~/pr2ueq
dominik@dominik-VirtualBox:~/pr2ueq$ tree
.
├── bokor
│ ├── banan
│ │ └── leiras.txt
│ ├── barack
│ └── mogyoro
├── fa
│ ├── banan
│ ├── korte
│ └── szeder
└── tree
└── felsorolas.txt
10 directories, 2 files
dominik@dominik-VirtualBox:~/pr2ueq$
18:37

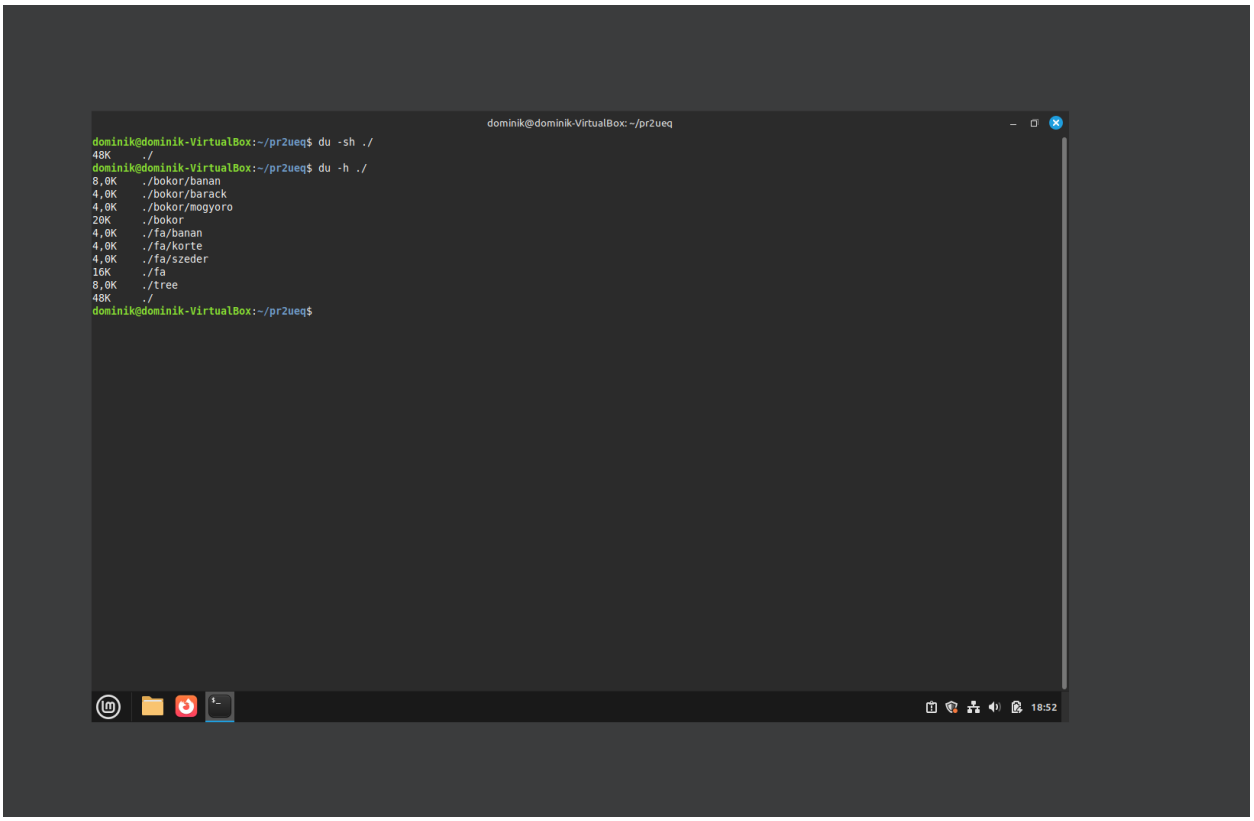
5


dominik@dominik-VirtualBox: ~/pr2ueq
dominik@dominik-VirtualBox:~/pr2ueq$ find ./ -type f -name '?e*'
./bokor/banan/leiras.txt
./tree/felsorolas.txt
dominik@dominik-VirtualBox:~/pr2ueq$
18:45

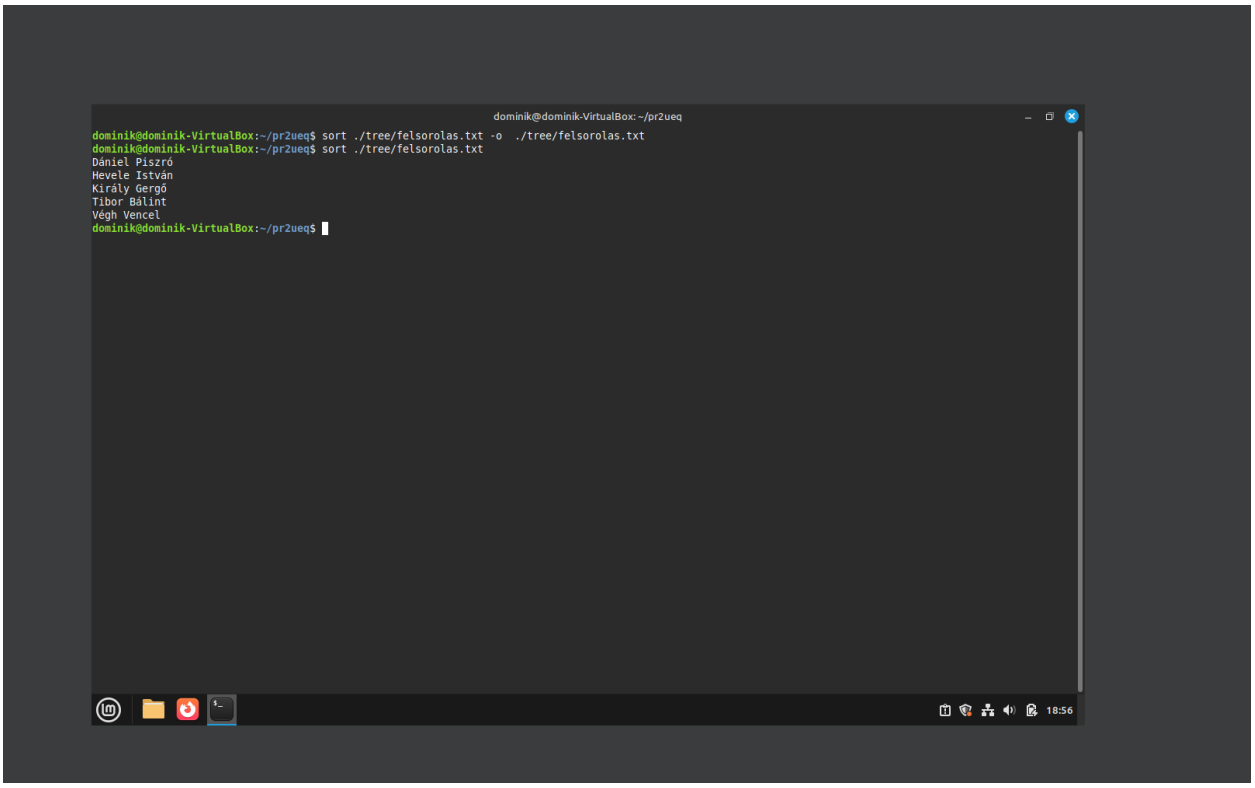
6


dominik@dominik-VirtualBox: ~/pr2ueq
dominik@dominik-VirtualBox:~/pr2ueq$ chmod a+r ./bokor/banan/leiras.txt
dominik@dominik-VirtualBox:~/pr2ueq$ ls -l ./bokor/ba
banan/ barack/
dominik@dominik-VirtualBox:~/pr2ueq$ ls -l ./bokor/banan/leiras.txt
-rw-rw-r-- 1 dominik dominik 54 Mar 17 18:31 ./bokor/banan/leiras.txt
dominik@dominik-VirtualBox:~/pr2ueq$
18:50

7

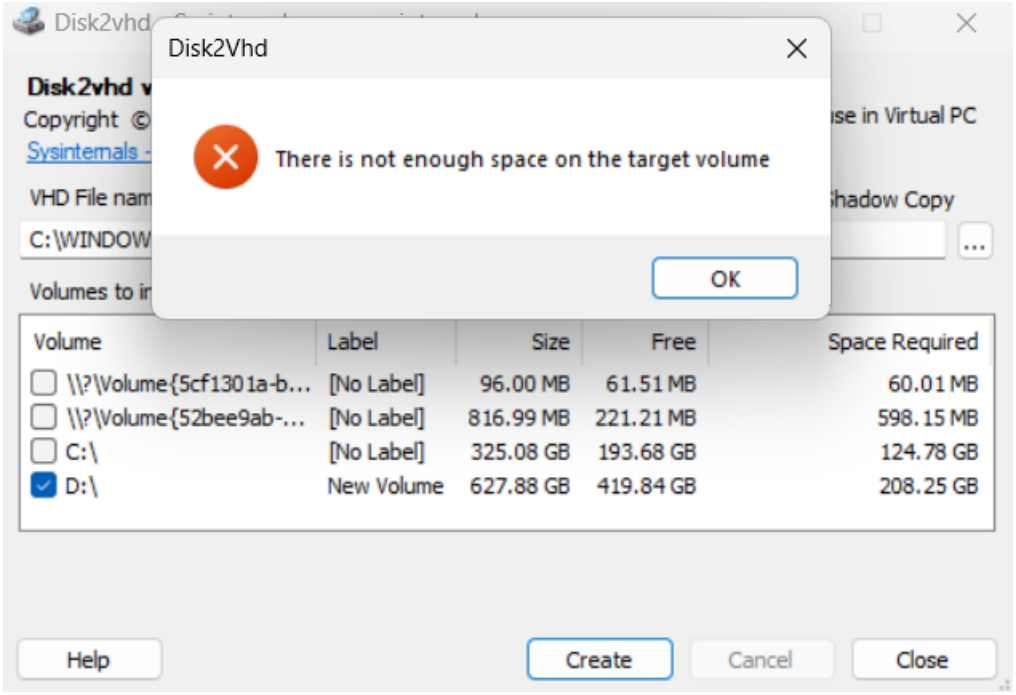

dominik@dominik-VirtualBox: ~/pr2ueq
dominik@dominik-VirtualBox:~/pr2ueq$ du -sh ./
48K ./
dominik@dominik-VirtualBox:~/pr2ueq$ du -h ./
8,0K ./bokor/banan
4,0K ./bokor/barack
4,0K ./bokor/mogyoro
20K ./bokor
4,0K ./fa/banan
4,0K ./fa/korte
4,0K ./fa/szeder
16K ./fa
8,0K ./tree
48K ./
dominik@dominik-VirtualBox:~/pr2ueq$
18:52

8

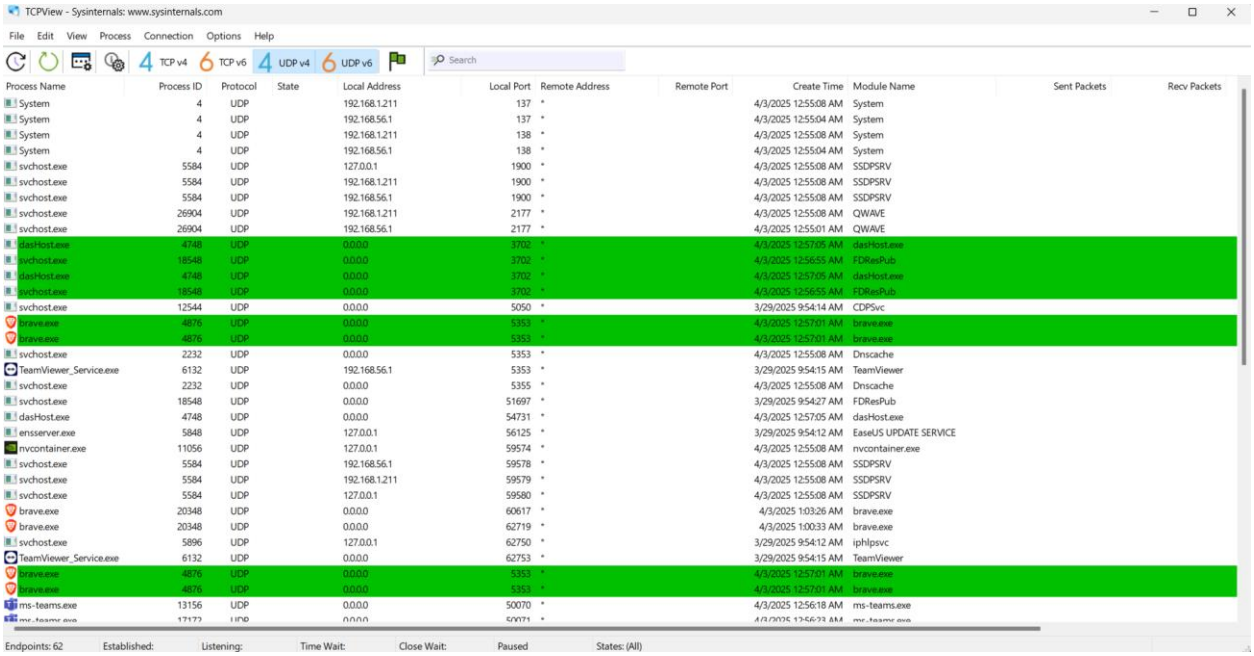

dominik@dominik-VirtualBox: ~/pr2ueq
dominik@dominik-VirtualBox:~/pr2ueq$ sort ./tree/felsorolas.txt -o ./tree/felsorolas.txt
dominik@dominik-VirtualBox:~/pr2ueq$ sort ./tree/felsorolas.txt
Dániel Piszró
Hevele István
Király Gergő
Tibor Bálint
Végh Vencel
dominik@dominik-VirtualBox:~/pr2ueq$
18:56

4

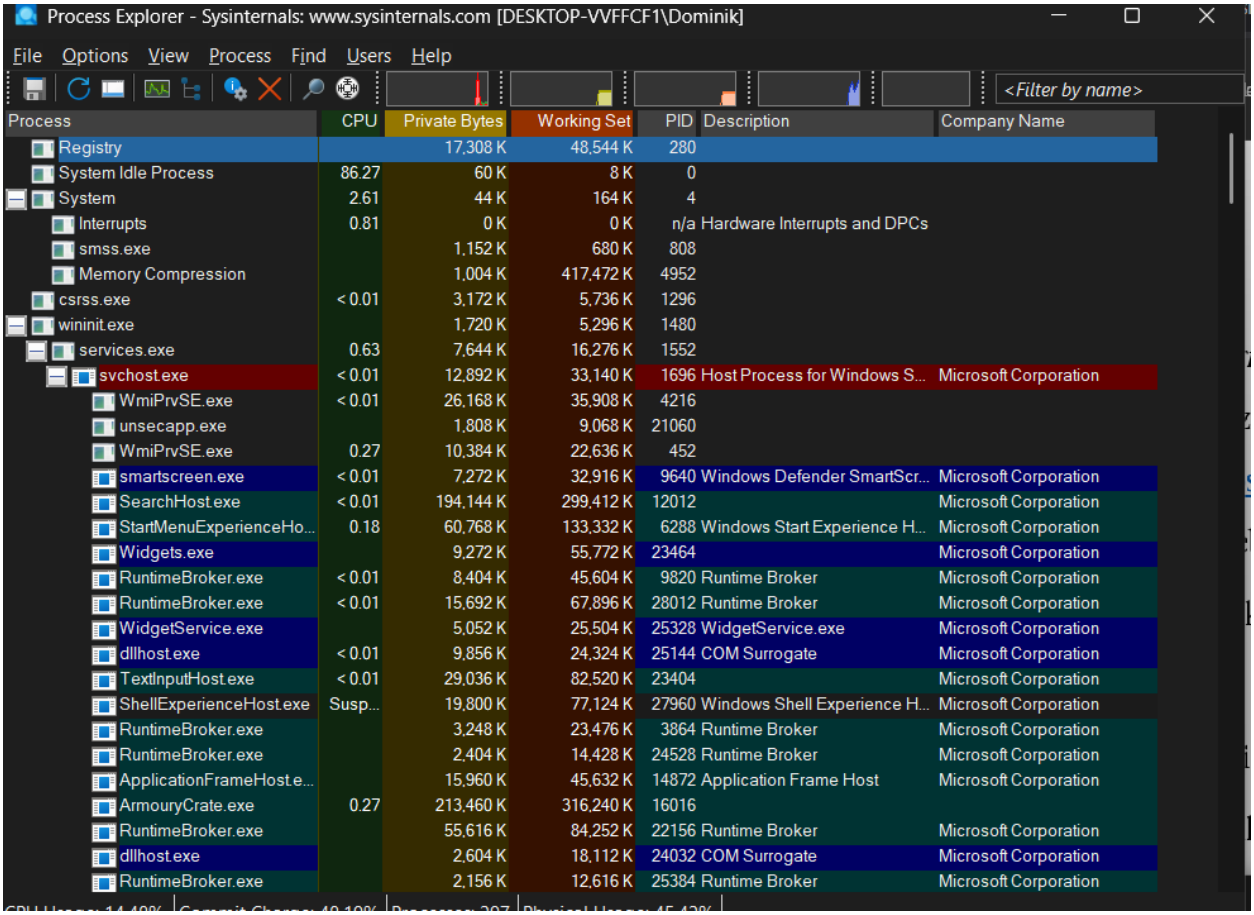
1

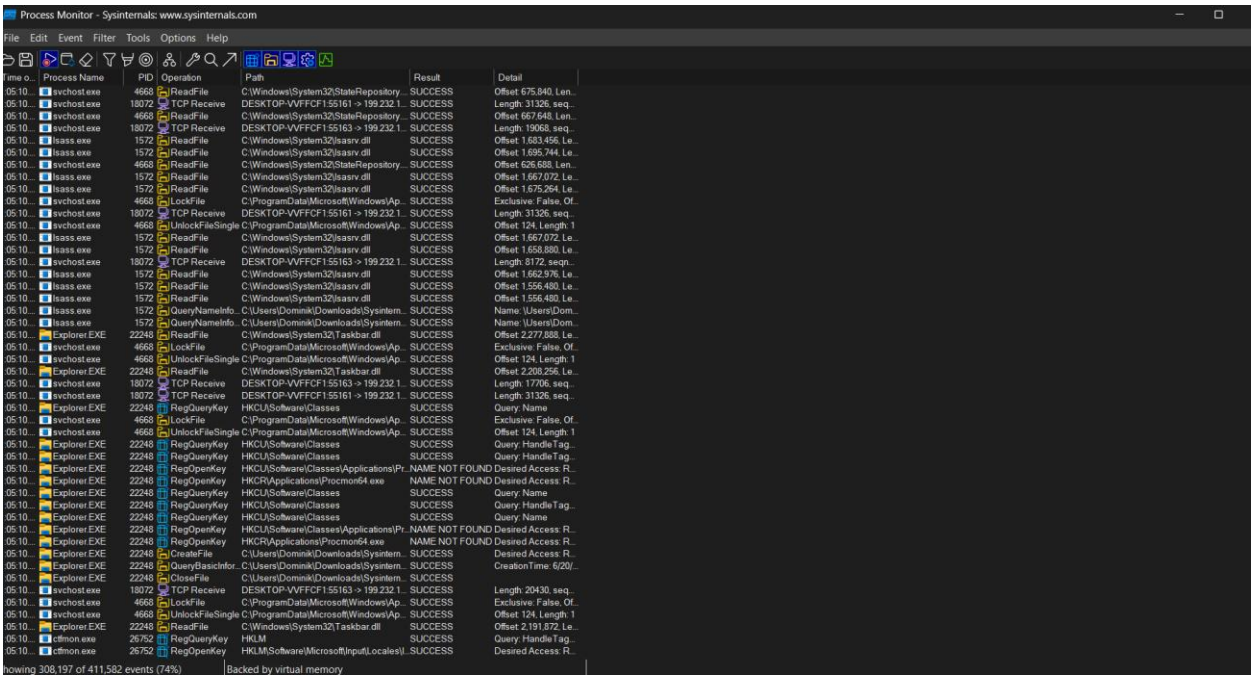

Disk2vhd
Disk2Vhd
There is not enough space on the target volume
OK
Disk2vhd v
Copyright ©
Sysinternals -
VHD File nam
C:\WINDOW
Volumes to in
Volume
Label
Size
Free
Space Required
\\?\Volume{5cf1301a-b...
[No Label]
96.00 MB
61.51 MB
60.01 MB
\\?\Volume{52bee9ab-...
[No Label]
816.99 MB
221.21 MB
598.15 MB
C:\
[No Label]
325.08 GB
193.68 GB
124.78 GB
D:\
New Volume
627.88 GB
419.84 GB
208.25 GB
Help
Create
Cancel
Close

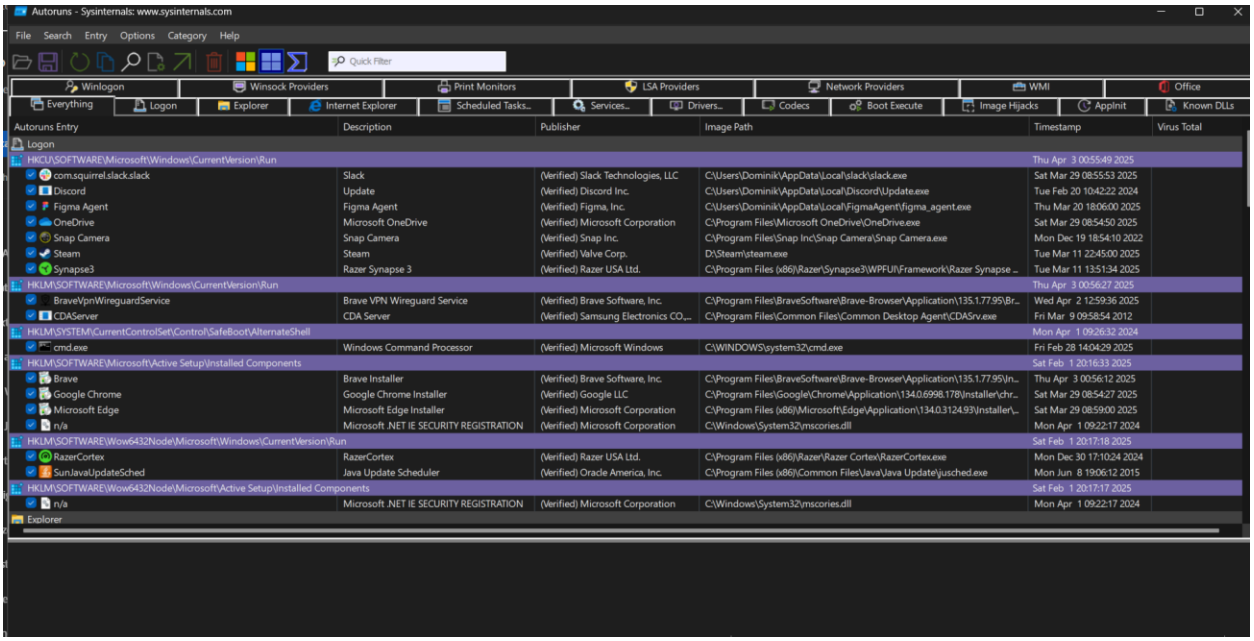
2


TCPView - Sysinternals: www.sysinternals.com
File Edit View Process Connection Options Help
Endpoints: 62 Established: Listening: Time Wait: Close Wait: Paused States: (All)

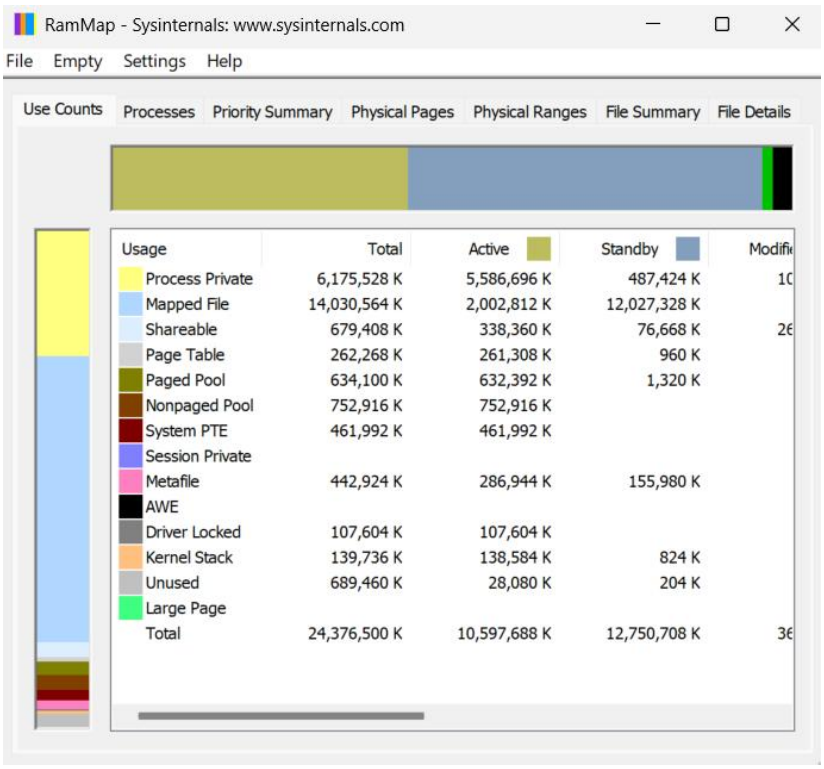
3


Process Explorer - Sysinternals: www.sysinternals.com [DESKTOP-VVFFCF1\Dominik]
File Options View Process Find Users Help
<Filter by name>
Process CPU Private Bytes Working Set PID Description Company Name
Registry 17,308 K 48,544 K 280
System Idle Process 86.27 60 K 8 K 0
System 2.61 44 K 164 K 4
Interrupts 0.81 0 K 0 K n/a Hardware Interrupts and DPCs
smss.exe 1,152 K 680 K 808
Memory Compression 1,004 K 417,472 K 4952
csrss.exe < 0.01 3,172 K 5,736 K 1296
wininit.exe 1,720 K 5,296 K 1480
services.exe 0.63 7,644 K 16,276 K 1552
svchost.exe < 0.01 12,892 K 33,140 K 1696 Host Process for Windows S... Microsoft Corporation
WmiPrvSE.exe < 0.01 26,168 K 35,908 K 4216
unsecapp.exe 1,808 K 9,068 K 21060
WmiPrvSE.exe 0.27 10,384 K 22,636 K 452
smartscreen.exe < 0.01 7,272 K 32,916 K 9640 Windows Defender SmartScr... Microsoft Corporation
SearchHost.exe < 0.01 194,144 K 299,412 K 12012 Microsoft Corporation
StartMenuExperienceHo... 0.18 60,768 K 133,332 K 6288 Windows Start Experience H... Microsoft Corporation
Widgets.exe 9,272 K 55,772 K 23464 Microsoft Corporation
RuntimeBroker.exe < 0.01 8,404 K 45,604 K 9820 Runtime Broker Microsoft Corporation
RuntimeBroker.exe < 0.01 15,692 K 67,896 K 28012 Runtime Broker Microsoft Corporation
WidgetService.exe 5,052 K 25,504 K 25328 WidgetService.exe Microsoft Corporation
dllhost.exe < 0.01 9,856 K 24,324 K 25144 COM Surrogate Microsoft Corporation
TextInputHost.exe < 0.01 29,036 K 82,520 K 23404 Microsoft Corporation
ShellExperienceHost.exe Susp... 19,800 K 77,124 K 27960 Windows Shell Experience H... Microsoft Corporation
RuntimeBroker.exe 3,248 K 23,476 K 3864 Runtime Broker Microsoft Corporation
RuntimeBroker.exe 2,404 K 14,428 K 24528 Runtime Broker Microsoft Corporation
ApplicationFrameHost.e... 15,960 K 45,632 K 14872 Application Frame Host Microsoft Corporation
ArmouryCrate.exe 0.27 213,460 K 316,240 K 16016
RuntimeBroker.exe 55,616 K 84,252 K 22156 Runtime Broker Microsoft Corporation
dllhost.exe 2,604 K 18,112 K 24032 COM Surrogate Microsoft Corporation
RuntimeBroker.exe 2,156 K 12,616 K 25384 Runtime Broker Microsoft Corporation


Process Monitor - Sysinternals: www.sysinternals.com
File Edit Event Filter Tools Options Help
Time o... Process Name PID Operation Path Result Detail
Showing 308,197 of 411,582 events (74%)
Backed by virtual memory

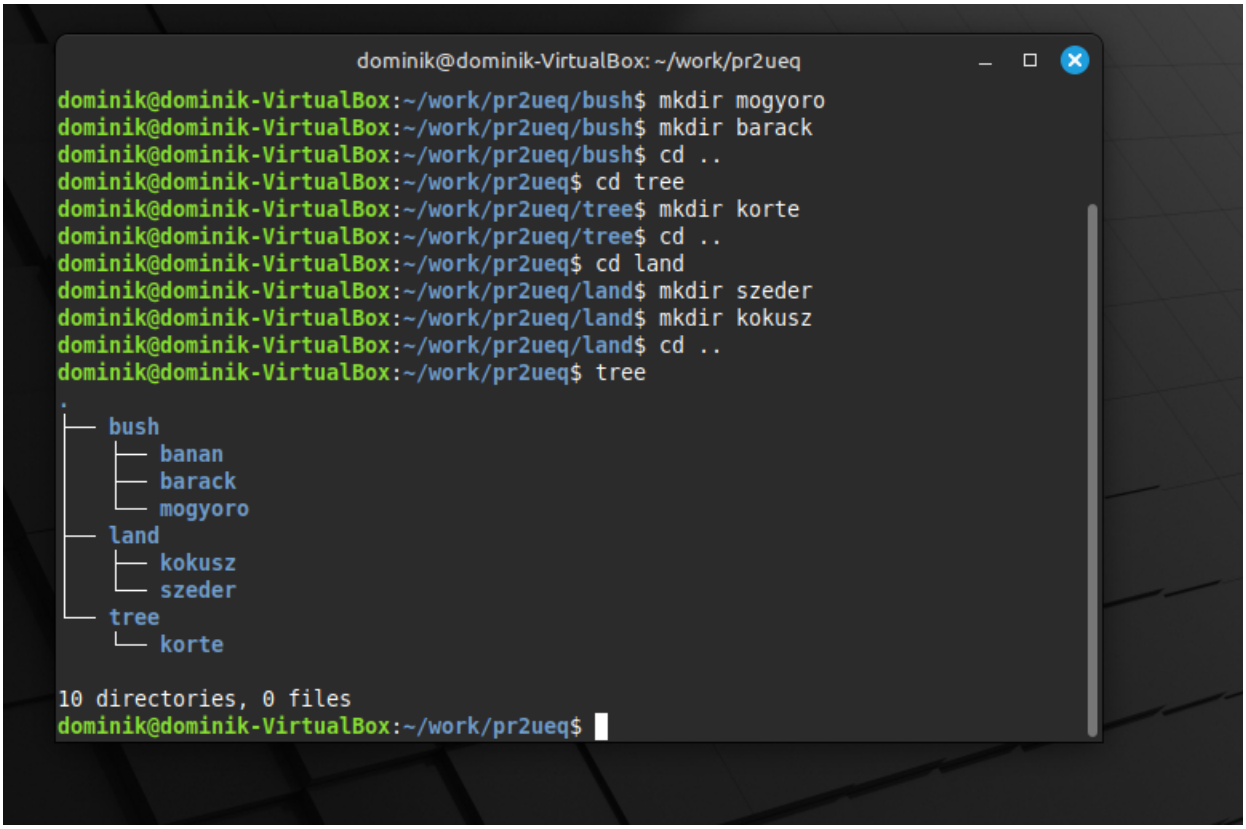

Autoruns - Sysinternals: www.sysinternals.com
File Search Entry Options Category Help
Quick Filter
Winlogon Winsock Providers Print Monitors LSA Providers Network Providers WMI Office
Everything Logon Explorer Internet Explorer Scheduled Tasks... Services... Drivers... Codecs Boot Execute Image Hijacks AppInit Known DLLs
Autoruns Entry Description Publisher Image Path Timestamp Virus Total
Logon
HKCU\SOFTWARE\Microsoft\Windows\CurrentVersion\Run Thu Apr 3 00:55:49 2025
com.squirrel.slack.slack Slack (Verified) Slack Technologies, LLC C:\Users\Dominik\AppData\Local\slack\slack.exe Sat Mar 29 08:55:53 2025
Discord Update (Verified) Discord Inc. C:\Users\Dominik\AppData\Local\Discord\Update.exe Tue Feb 20 10:42:22 2024
Figma Agent Figma Agent (Verified) Figma, Inc. C:\Users\Dominik\AppData\Local\FigmaAgent\figma_agent.exe Thu Mar 20 18:06:00 2025
OneDrive Microsoft OneDrive (Verified) Microsoft Corporation C:\Program Files\Microsoft OneDrive\OneDrive.exe Sat Mar 29 08:54:50 2025
Snap Camera Snap Camera (Verified) Snap Inc. C:\Program Files\Snap Inc\Snap Camera\Snap Camera.exe Mon Dec 19 18:54:10 2022
Steam Steam (Verified) Valve Corp. D:\Steam\steam.exe Tue Mar 11 22:45:00 2025
Synapse3 Razer Synapse 3 (Verified) Razer USA Ltd. C:\Program Files (x86)\Razer\Synapse3\WPFUI\Framework\Razer Synapse ... Tue Mar 11 13:51:34 2025
HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Run Thu Apr 3 00:56:27 2025
BraveVpnWireguardService Brave VPN Wireguard Service (Verified) Brave Software, Inc. C:\Program Files\BraveSoftware\Brave-Browser\Application\135.1.77.95\Br... Wed Apr 2 12:59:36 2025
CDAServer CDA Server (Verified) Samsung Electronics CO,... C:\Program Files\Common Files\Common Desktop Agent\CDASrv.exe Fri Mar 9 09:58:54 2012
HKLM\SYSTEM\CurrentControlSet\Control\SafeBoot\AlternateShell Mon Apr 1 09:26:32 2024
cmd.exe Windows Command Processor (Verified) Microsoft Windows C:\WINDOWS\system32\cmd.exe Fri Feb 28 14:04:29 2025
HKLM\SOFTWARE\Microsoft\Active Setup\Installed Components Sat Feb 1 20:16:33 2025
Brave Brave Installer (Verified) Brave Software, Inc. C:\Program Files\BraveSoftware\Brave-Browser\Application\135.1.77.95\In... Thu Apr 3 00:56:12 2025
Google Chrome Google Chrome Installer (Verified) Google LLC C:\Program Files\Google\Chrome\Application\134.0.6998.178\Installer\chr... Sat Mar 29 08:54:27 2025
Microsoft Edge Microsoft Edge Installer (Verified) Microsoft Corporation C:\Program Files (x86)\Microsoft\Edge\Application\134.0.3124.93\Installer\... Sat Mar 29 08:59:00 2025
n/a Microsoft .NET IE SECURITY REGISTRATION (Verified) Microsoft Corporation C:\Windows\System32\mscories.dll Mon Apr 1 09:22:17 2024
HKLM\SOFTWARE\Wow6432Node\Microsoft\Windows\CurrentVersion\Run Sat Feb 1 20:17:18 2025
RazerCortex RazerCortex (Verified) Razer USA Ltd. C:\Program Files (x86)\Razer\Razer Cortex\RazerCortex.exe Mon Dec 30 17:10:24 2024
SunJavaUpdateSched Java Update Scheduler (Verified) Oracle America, Inc. C:\Program Files (x86)\Common Files\Java\Java Update\jusched.exe Mon Jun 8 19:06:12 2015
HKLM\SOFTWARE\Wow6432Node\Microsoft\Active Setup\Installed Components Sat Feb 1 20:17:17 2025
n/a Microsoft .NET IE SECURITY REGISTRATION (Verified) Microsoft Corporation C:\Windows\System32\mscories.dll Mon Apr 1 09:22:17 2024
Explorer

5

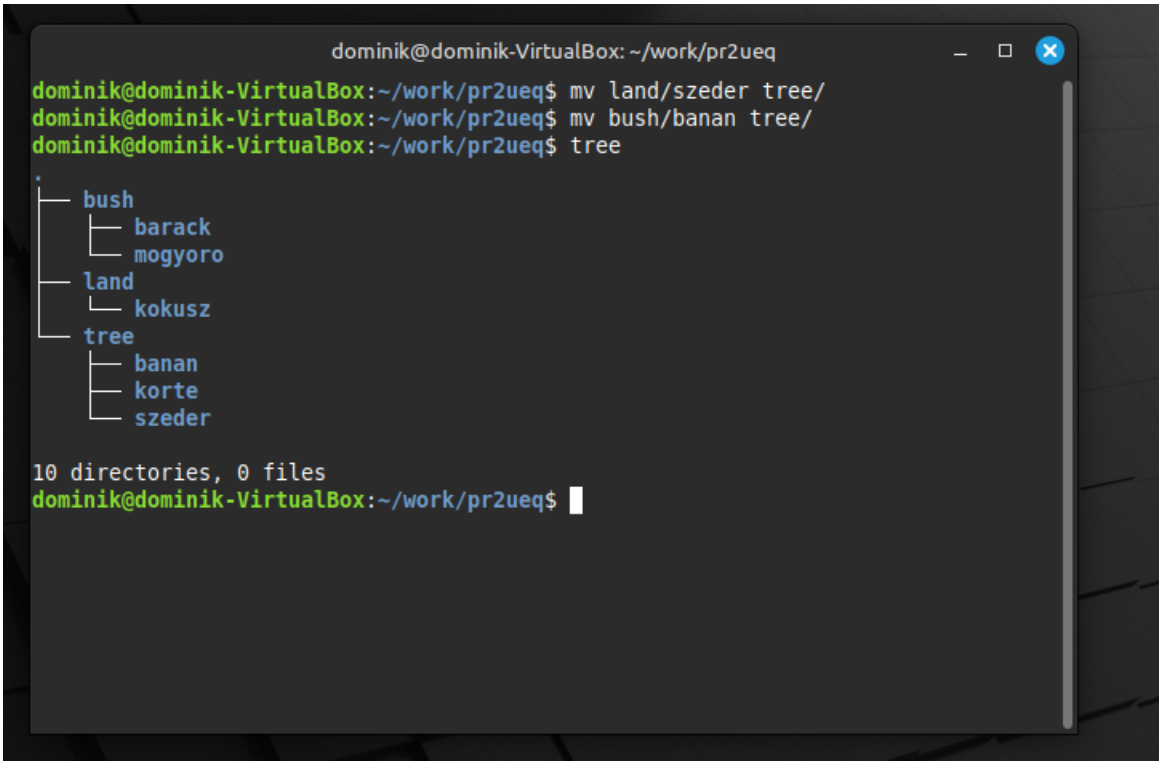

RamMap - Sysinternals: www.sysinternals.com
File Empty Settings Help
Use Counts Processes Priority Summary Physical Pages Physical Ranges File Summary File Details
Usage Total Active Standby Modifi
Process Private 6,175,528 K 5,586,696 K 487,424 K 1(
Mapped File 14,030,564 K 2,002,812 K 12,027,328 K
Shareable 679,408 K 338,360 K 76,668 K 2(
Page Table 262,268 K 261,308 K 960 K
Paged Pool 634,100 K 632,392 K 1,320 K
Nonpaged Pool 752,916 K 752,916 K
System PTE 461,992 K 461,992 K
Session Private
Metafile 442,924 K 286,944 K 155,980 K
AWE
Driver Locked 107,604 K 107,604 K
Kernel Stack 139,736 K 138,584 K 824 K
Unused 689,460 K 28,080 K 204 K
Large Page
Total 24,376,500 K 10,597,688 K 12,750,708 K 3(

6

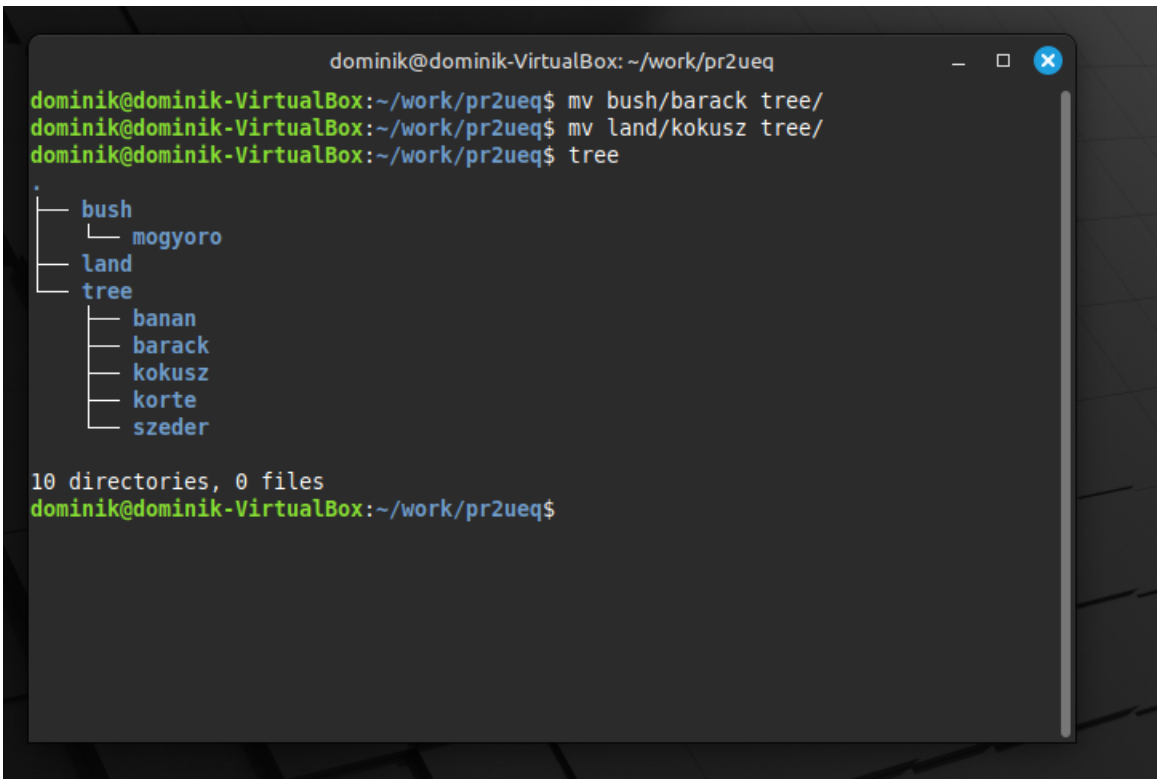
1


dominik@dominik-VirtualBox: ~/work/pr2ueq
dominik@dominik-VirtualBox:~/work/pr2ueq/bush$ mkdir mogyoro
dominik@dominik-VirtualBox:~/work/pr2ueq/bush$ mkdir barack
dominik@dominik-VirtualBox:~/work/pr2ueq/bush$ cd ..
dominik@dominik-VirtualBox:~/work/pr2ueq$ cd tree
dominik@dominik-VirtualBox:~/work/pr2ueq/tree$ mkdir korte
dominik@dominik-VirtualBox:~/work/pr2ueq/tree$ cd ..
dominik@dominik-VirtualBox:~/work/pr2ueq$ cd land
dominik@dominik-VirtualBox:~/work/pr2ueq/land$ mkdir szeder
dominik@dominik-VirtualBox:~/work/pr2ueq/land$ mkdir kokusz
dominik@dominik-VirtualBox:~/work/pr2ueq/land$ cd ..
dominik@dominik-VirtualBox:~/work/pr2ueq$ tree
.
├── bush
│ ├── banan
│ ├── barack
│ └── mogyoro
├── land
│ ├── kokusz
│ └── szeder
└── tree
└── korte
10 directories, 0 files
dominik@dominik-VirtualBox:~/work/pr2ueq$

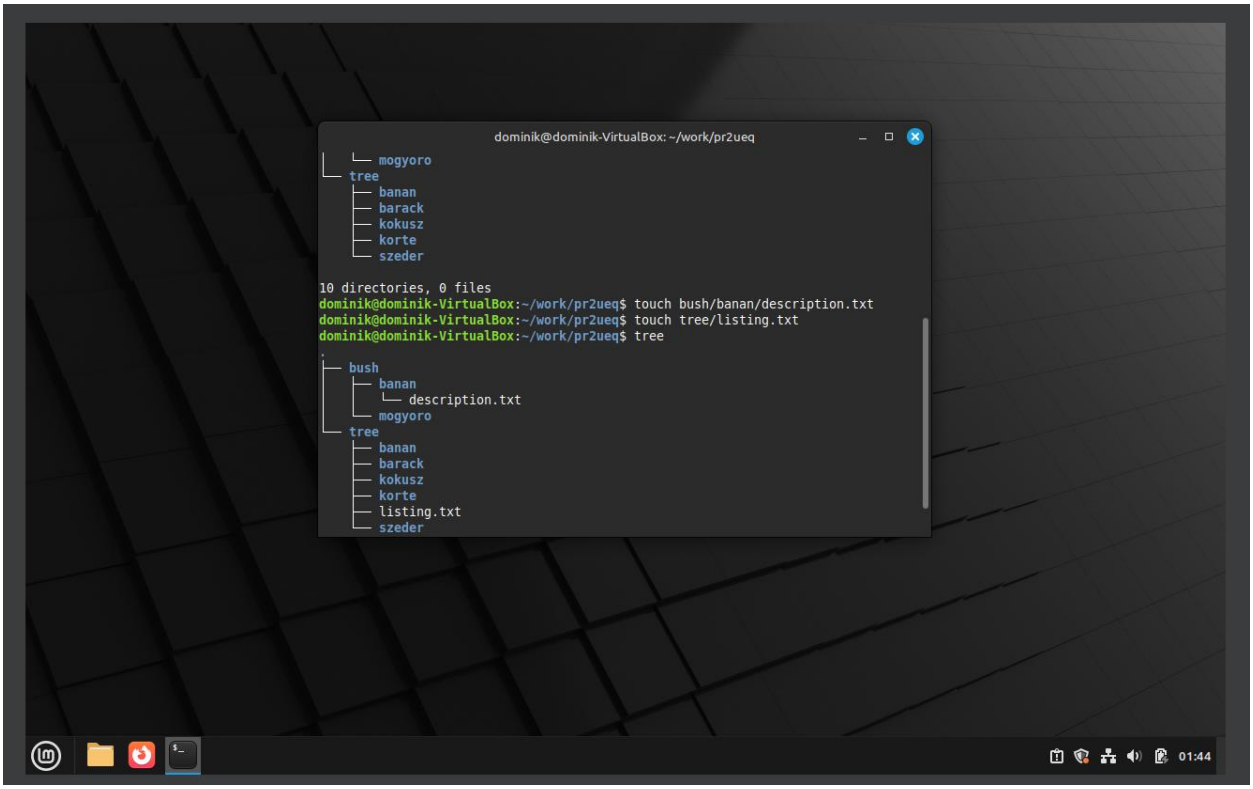
2


dominik@dominik-VirtualBox: ~/work/pr2ueq
dominik@dominik-VirtualBox:~/work/pr2ueq$ mv land/szeder tree/
dominik@dominik-VirtualBox:~/work/pr2ueq$ mv bush/banan tree/
dominik@dominik-VirtualBox:~/work/pr2ueq$ tree
.
├── bush
│   ├── barack
│   └── mogyoro
├── land
│   └── kokusz
└── tree
    ├── banan
    ├── korte
    └── szeder
10 directories, 0 files
dominik@dominik-VirtualBox:~/work/pr2ueq$

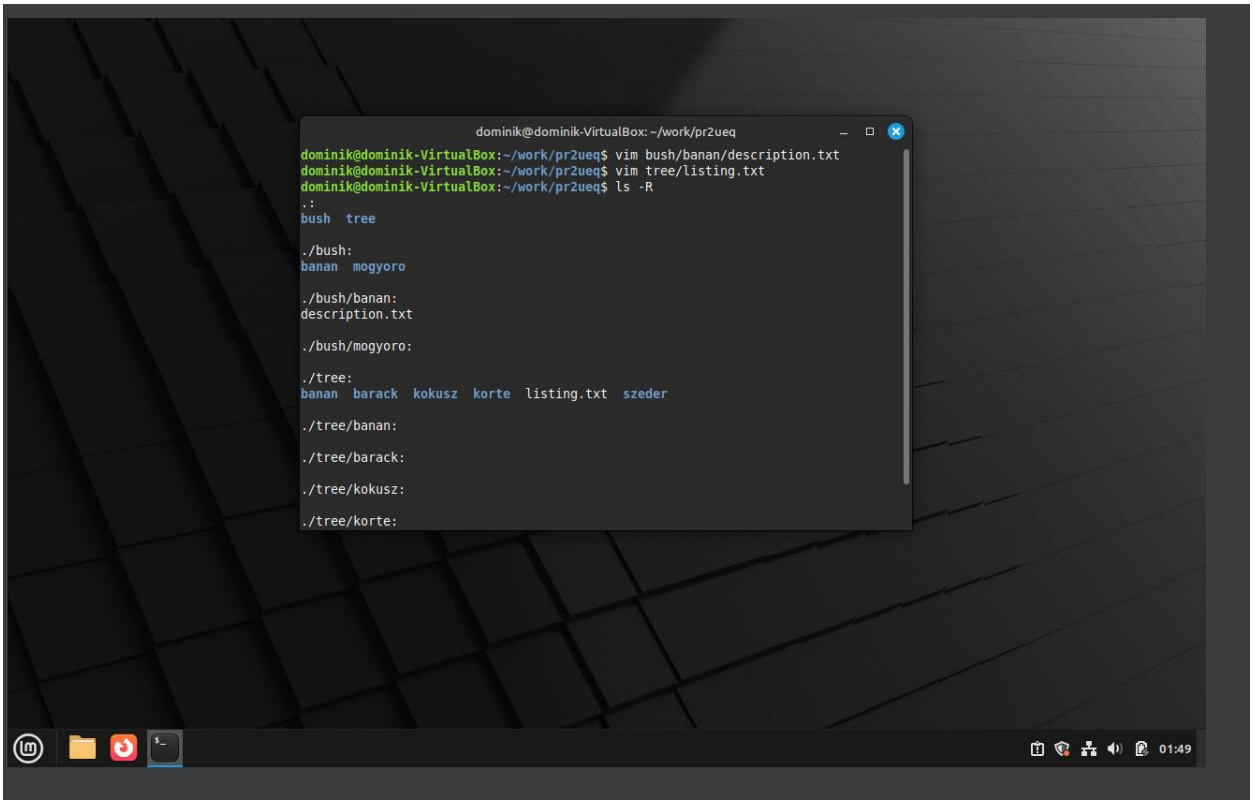
3


dominik@dominik-VirtualBox: ~/work/pr2ueq
dominik@dominik-VirtualBox:~/work/pr2ueq$ mv bush/barack tree/
dominik@dominik-VirtualBox:~/work/pr2ueq$ mv land/kokusz tree/
dominik@dominik-VirtualBox:~/work/pr2ueq$ tree
.
├── bush
│   └── mogyoro
├── land
└── tree
    ├── banan
    ├── barack
    ├── kokusz
    ├── korte
    └── szeder
10 directories, 0 files
dominik@dominik-VirtualBox:~/work/pr2ueq$

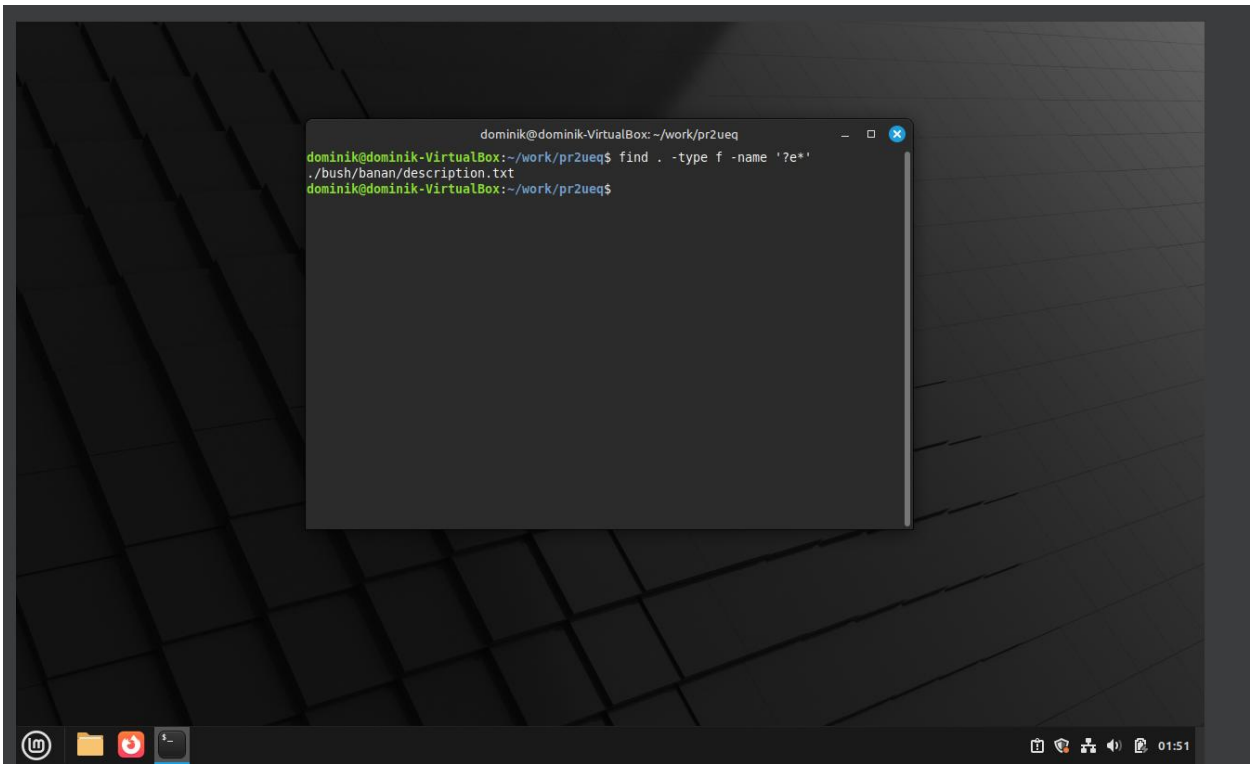
4


dominik@dominik-VirtualBox: ~/work/pr2ueq
└── mogyoro
└── tree
├── banan
├── barack
├── kokusz
├── korte
└── szeder
10 directories, 0 files
dominik@dominik-VirtualBox:~/work/pr2ueq$ touch bush/banan/description.txt
dominik@dominik-VirtualBox:~/work/pr2ueq$ touch tree/listing.txt
dominik@dominik-VirtualBox:~/work/pr2ueq$ tree
.
├── bush
│ ├── banan
│ │ └── description.txt
│ └── mogyoro
└── tree
├── banan
├── barack
├── kokusz
├── korte
├── listing.txt
└── szeder
01:44

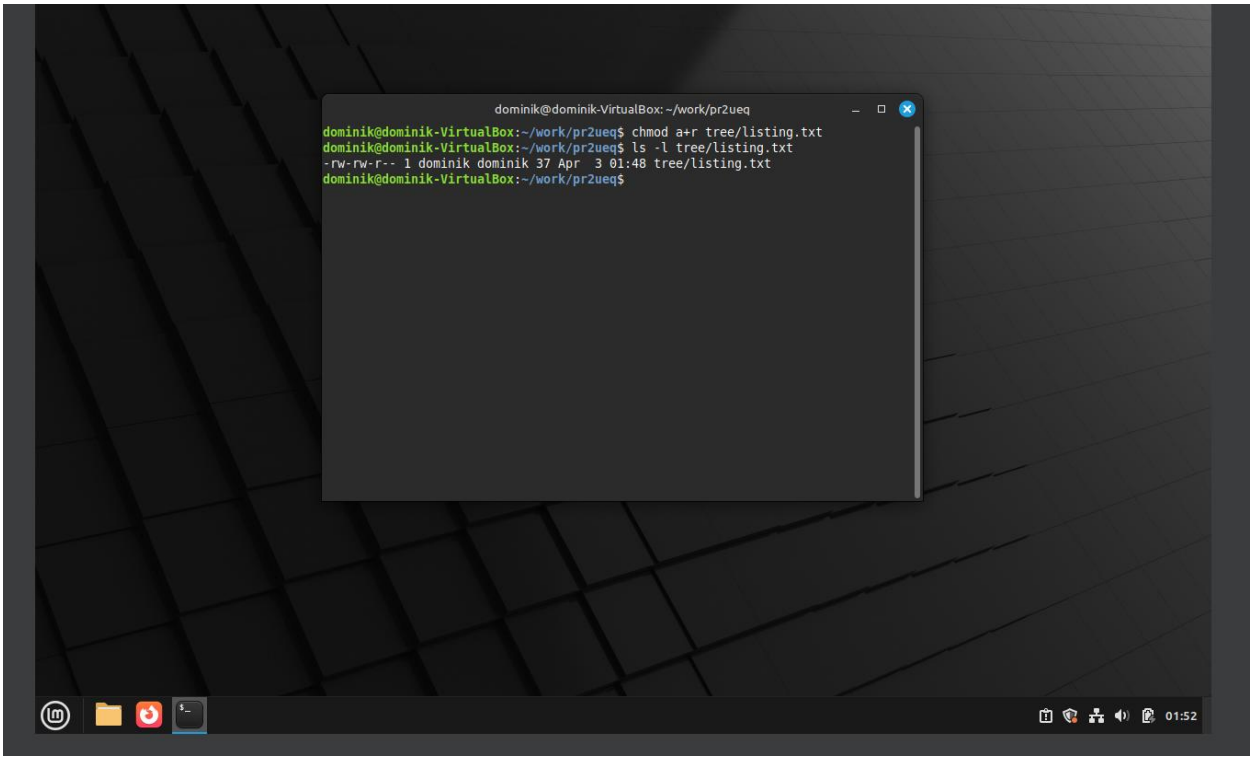
6


dominik@dominik-VirtualBox: ~/work/pr2ueq
dominik@dominik-VirtualBox:~/work/pr2ueq$ vim bush/banan/description.txt
dominik@dominik-VirtualBox:~/work/pr2ueq$ vim tree/listing.txt
dominik@dominik-VirtualBox:~/work/pr2ueq$ ls -R
.:
bush tree
./bush:
banan mogyoro
./bush/banan:
description.txt
./bush/mogyoro:
./tree:
banan barack kokusz korte listing.txt szeder
./tree/banan:
./tree/barack:
./tree/kokusz:
./tree/korte:
01:49

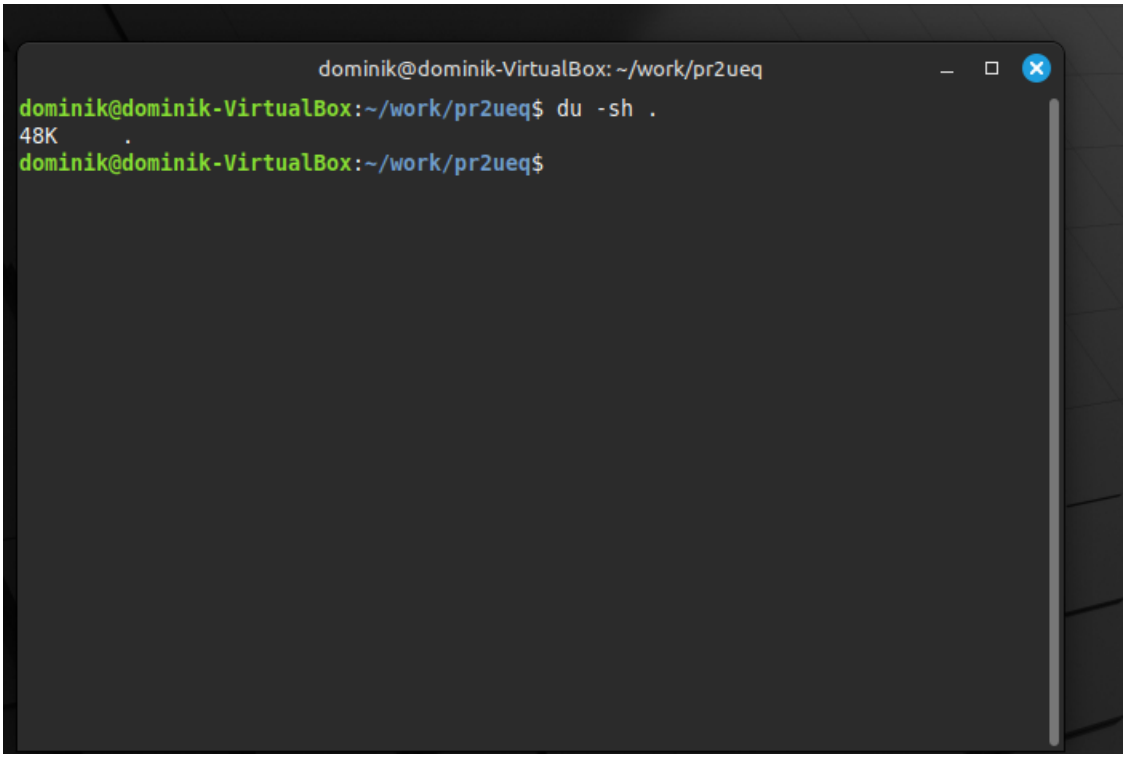
7


dominik@dominik-VirtualBox: ~/work/pr2ueq
dominik@dominik-VirtualBox:~/work/pr2ueq$ find . -type f -name '?e*'
./bush/banan/description.txt
dominik@dominik-VirtualBox:~/work/pr2ueq$
01:51

8


dominik@dominik-VirtualBox: ~/work/pr2ueq
dominik@dominik-VirtualBox:~/work/pr2ueq$ chmod a+r tree/listing.txt
dominik@dominik-VirtualBox:~/work/pr2ueq$ ls -l tree/listing.txt
-rw-rw-r-- 1 dominik dominik 37 Apr 3 01:48 tree/listing.txt
dominik@dominik-VirtualBox:~/work/pr2ueq$
01:52

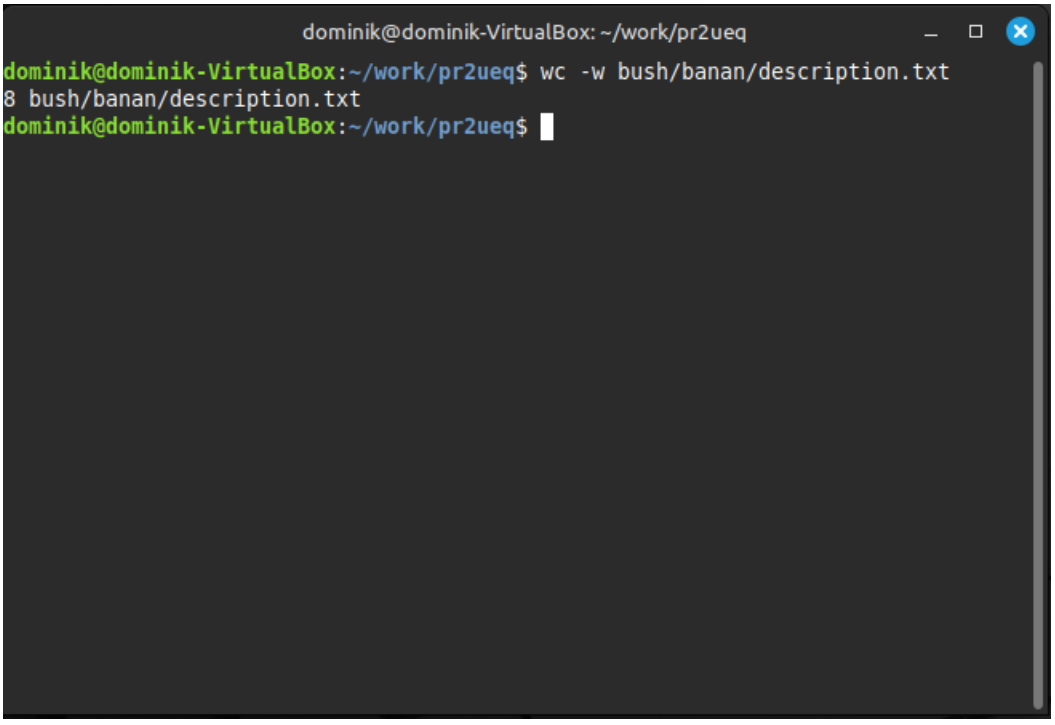
9


dominik@dominik-VirtualBox: ~/work/pr2ueq
dominik@dominik-VirtualBox:~/work/pr2ueq$ du -sh .
48K .
dominik@dominik-VirtualBox:~/work/pr2ueq$

10

dominik@dominik-VirtualBox: ~/work/pr2ueq
dominik@dominik-VirtualBox:~/work/pr2ueq$ sort tree/listing.txt
Alma
Barack
Cseresznye
Körte
Szilva
dominik@dominik-VirtualBox:~/work/pr2ueq$

11


dominik@dominik-VirtualBox: ~/work/pr2ueq
dominik@dominik-VirtualBox:~/work/pr2ueq$ wc -w bush/banan/description.txt
8 bush/banan/description.txt
dominik@dominik-VirtualBox:~/work/pr2ueq$