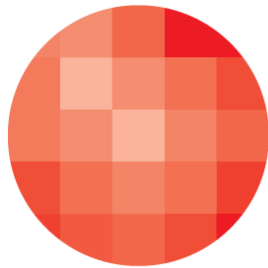


WARSZAWSKA WYŻSZA SZKOŁA INFORMATYKI
SYSTEMY OPERACYJNE

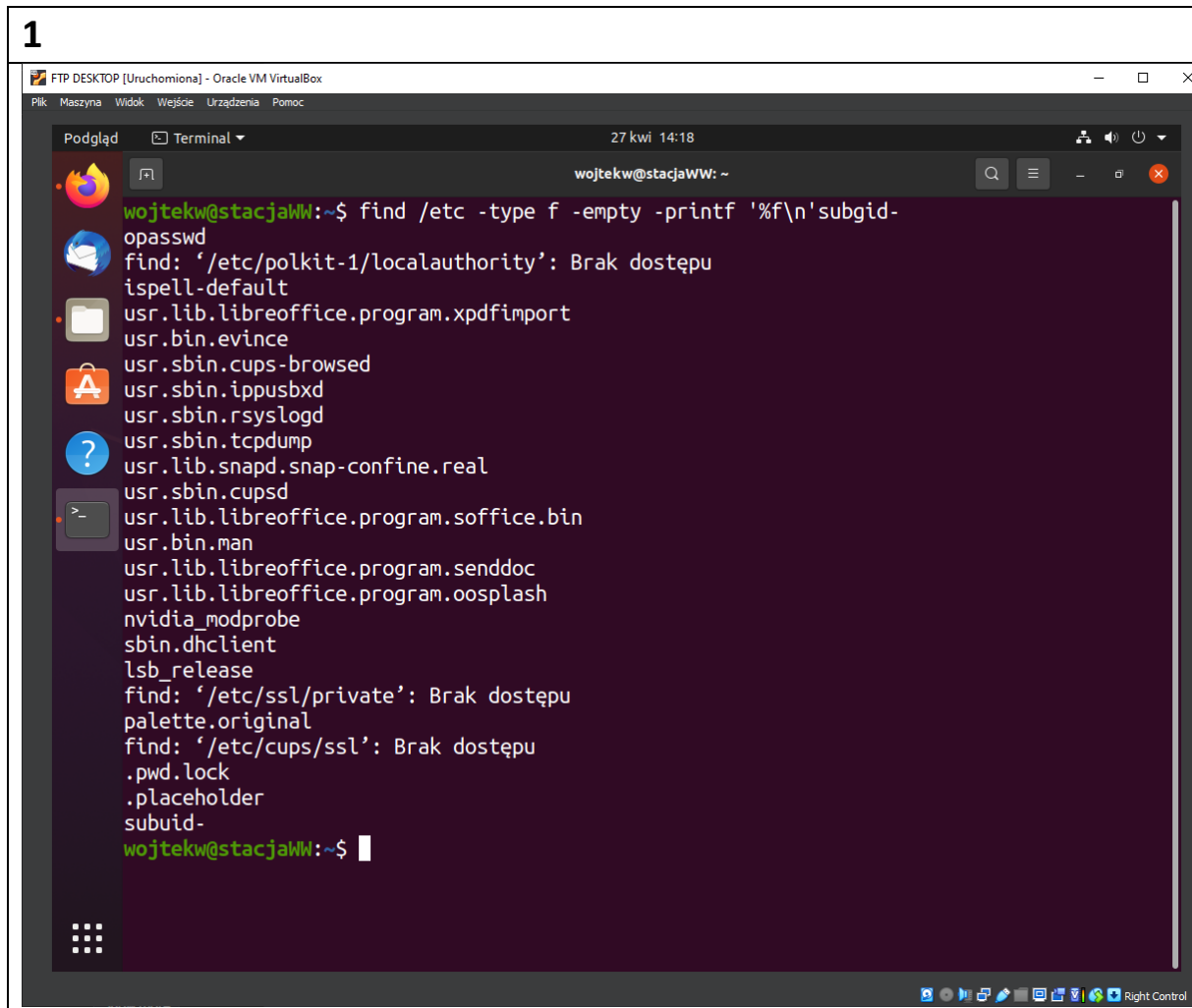


WARSZAWSKA
WYŻSZA SZKOŁA
INFORMATYKI

Zadanie NR 4

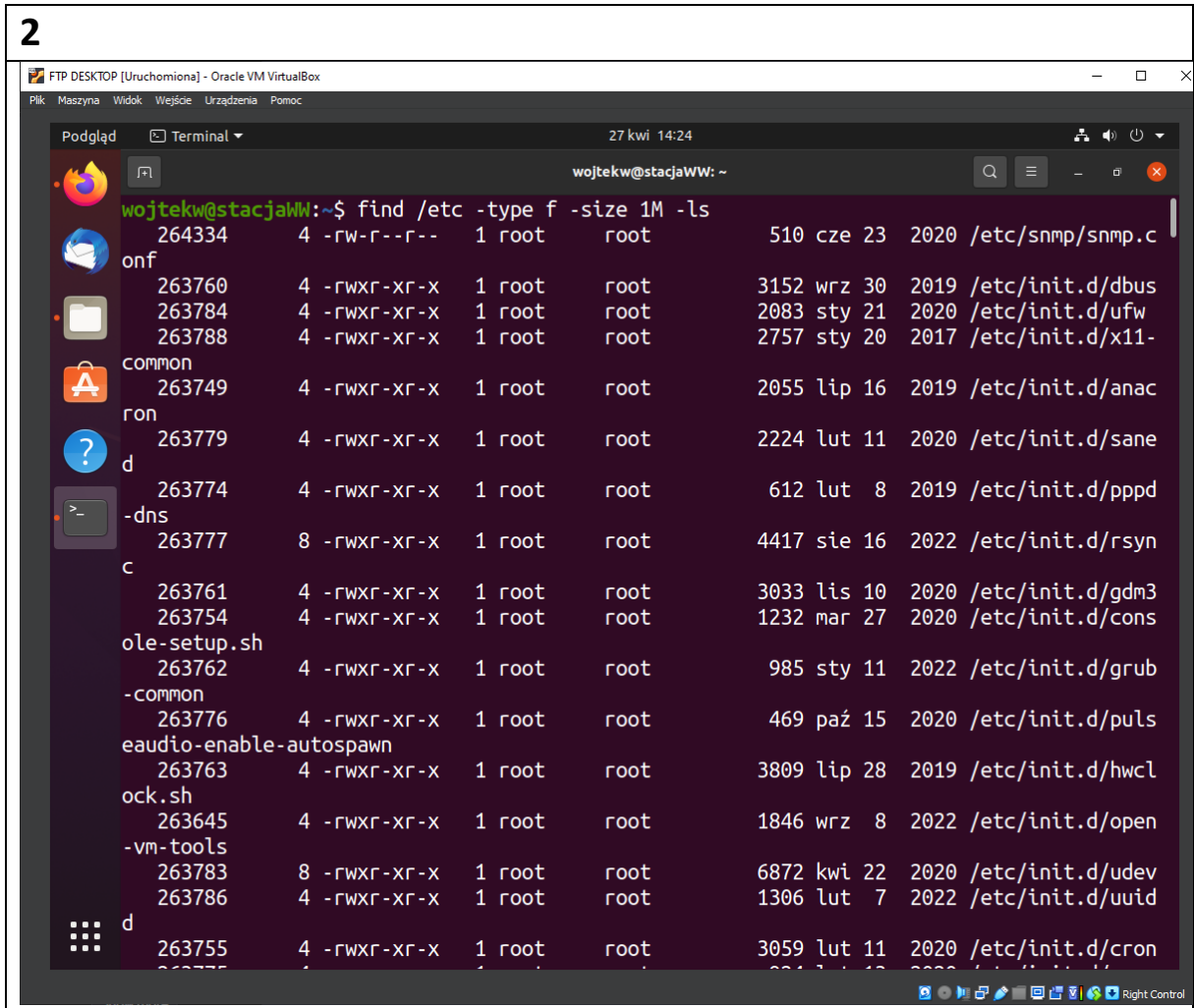
Wykonał
Wojciech Wiącek

1



The screenshot shows a terminal window titled "FTP DESKTOP [Uruchomiona] - Oracle VM VirtualBox". The terminal is running a command to find empty files in the /etc directory. The output lists various system files and directories, including opasswd, ispell-default, usr.lib.libreoffice.program.xpdfimport, usr.bin.evince, usr.sbin.cups-browsed, usr.sbin.ippusbxd, usr.sbin.rsyslogd, usr.sbin.tcpdump, usr.lib.snapd.snap-confine.real, usr.sbin.cupsd, usr.lib.libreoffice.program.soffice.bin, usr.bin.man, usr.lib.libreoffice.program.senddoc, usr.lib.libreoffice.program.oosplash, nvidia_modprobe, sbin.dhclient, lsb_release, palette.original, .pwd.lock, .placeholder, and subuid-. The terminal also shows error messages for access denied in /etc/polkit-1/localauthority and /etc/cups/ssl.

```
wojtekww@stacjaWW: ~$ find /etc -type f -empty -printf '%f\n'subgid-  
opasswd  
find: '/etc/polkit-1/localauthority': Brak dostępu  
ispell-default  
usr.lib.libreoffice.program.xpdfimport  
usr.bin.evince  
usr.sbin.cups-browsed  
usr.sbin.ippusbxd  
usr.sbin.rsyslogd  
usr.sbin.tcpdump  
usr.lib.snapd.snap-confine.real  
usr.sbin.cupsd  
usr.lib.libreoffice.program.soffice.bin  
usr.bin.man  
usr.lib.libreoffice.program.senddoc  
usr.lib.libreoffice.program.oosplash  
nvidia_modprobe  
sbin.dhclient  
lsb_release  
find: '/etc/ssl/private': Brak dostępu  
palette.original  
find: '/etc/cups/ssl': Brak dostępu  
.pwd.lock  
.placeholder  
subuid-  
wojtekww@stacjaWW: ~$
```

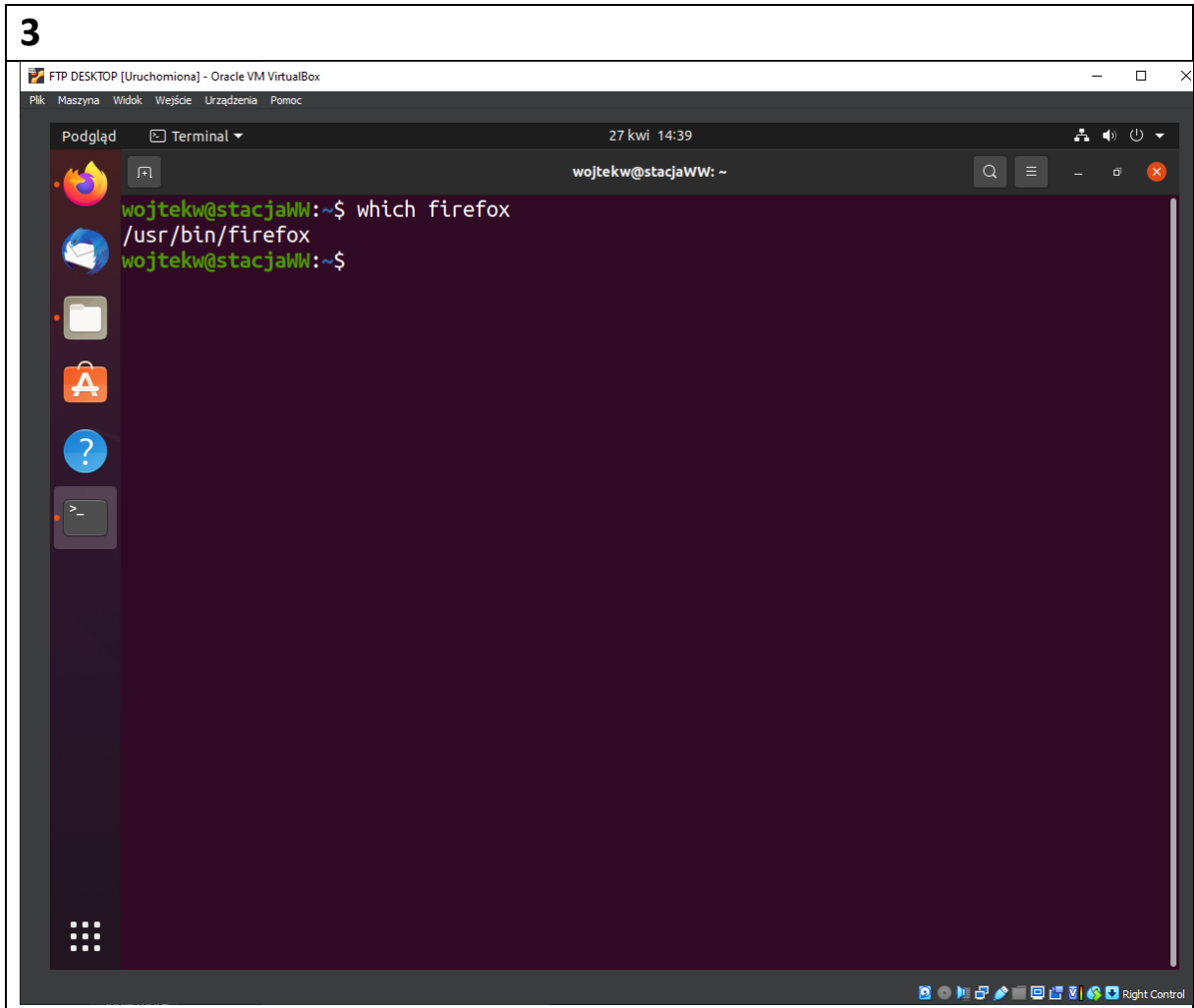


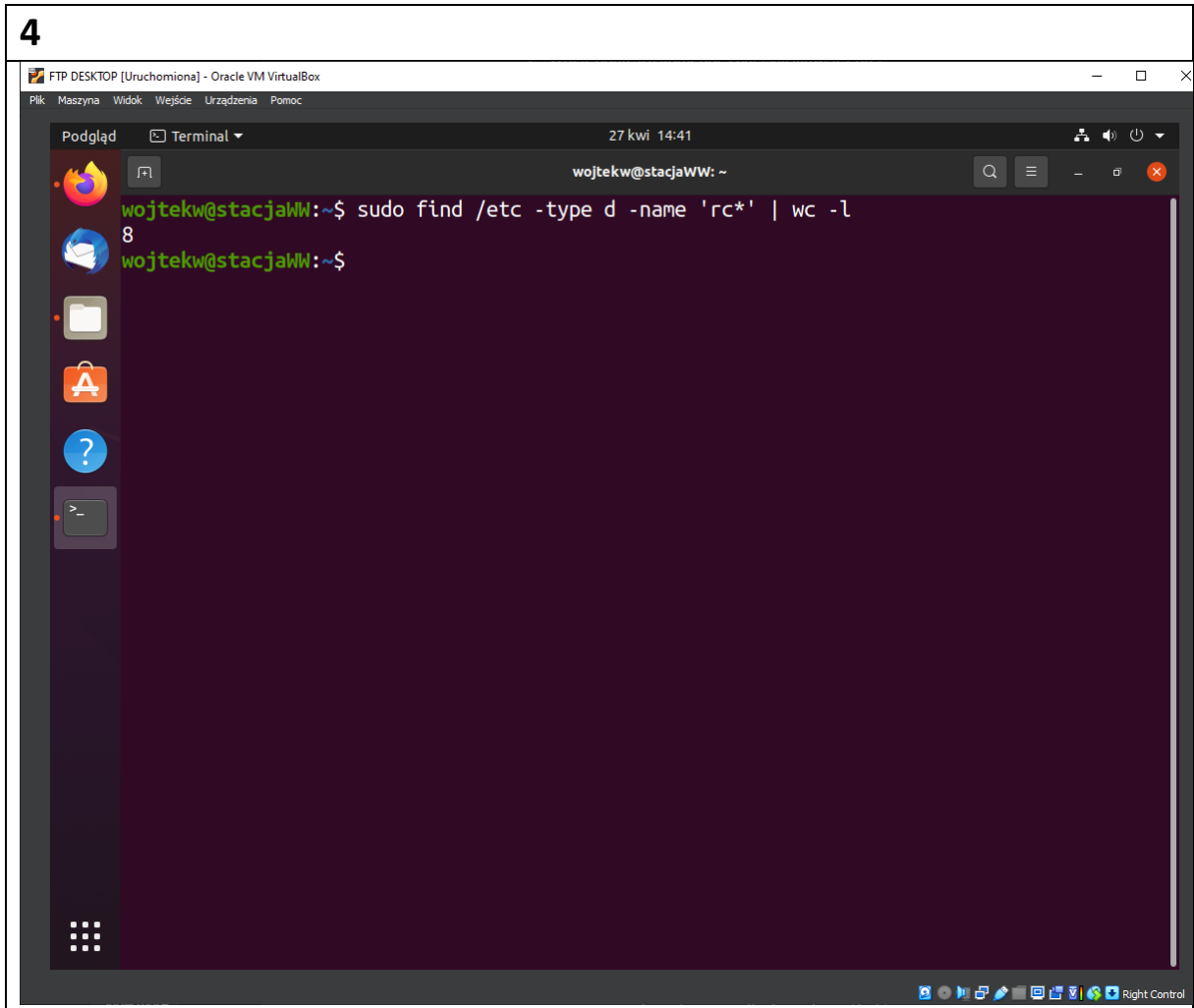
```
FTP DESKTOP [Uruchomiona] - Oracle VM VirtualBox
Plik Maszyna Widok Wejście Urządzenia Pomoc

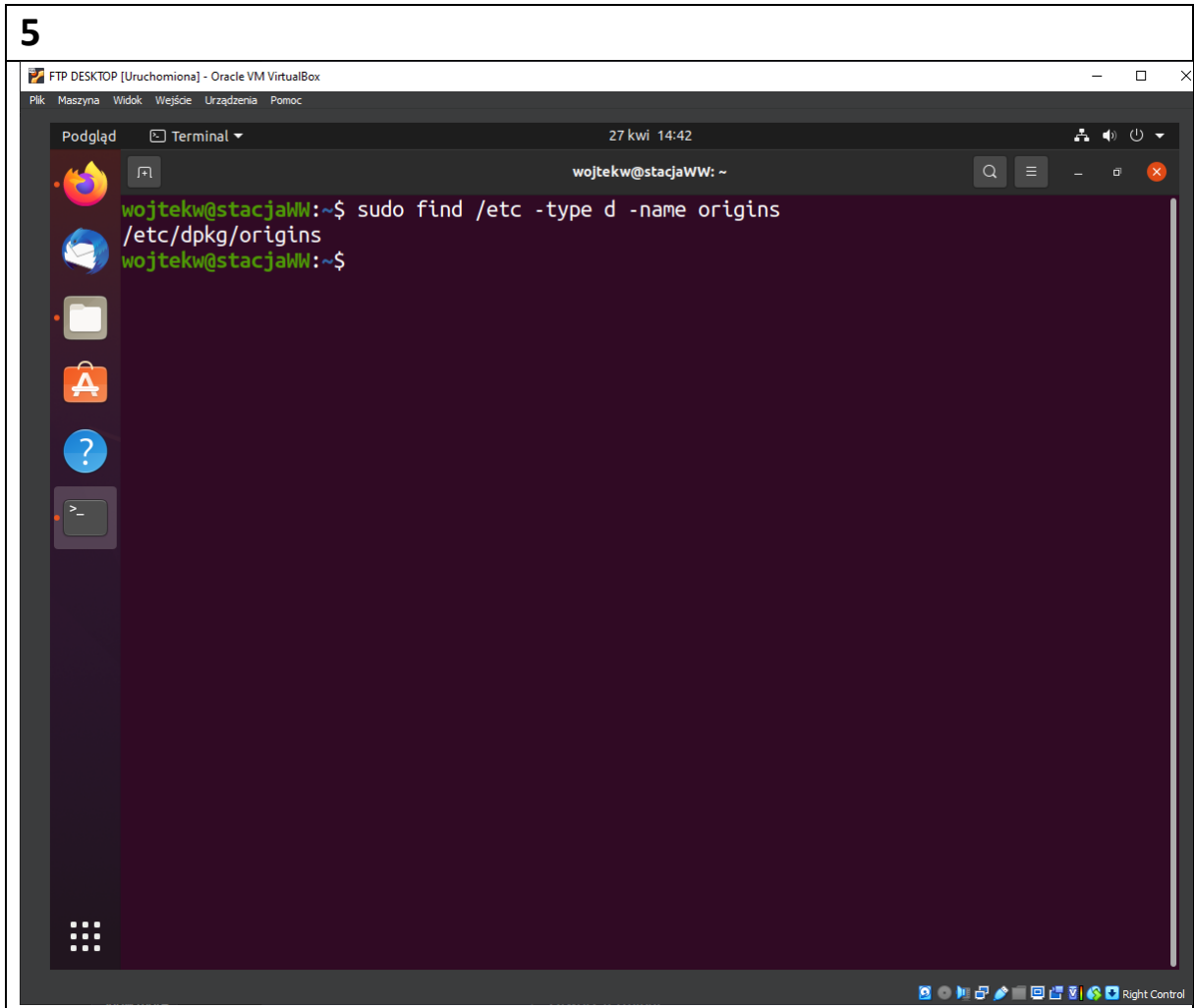
Podgląd Terminal 27 kwi 14:24
wojtek@stacjaWW: ~

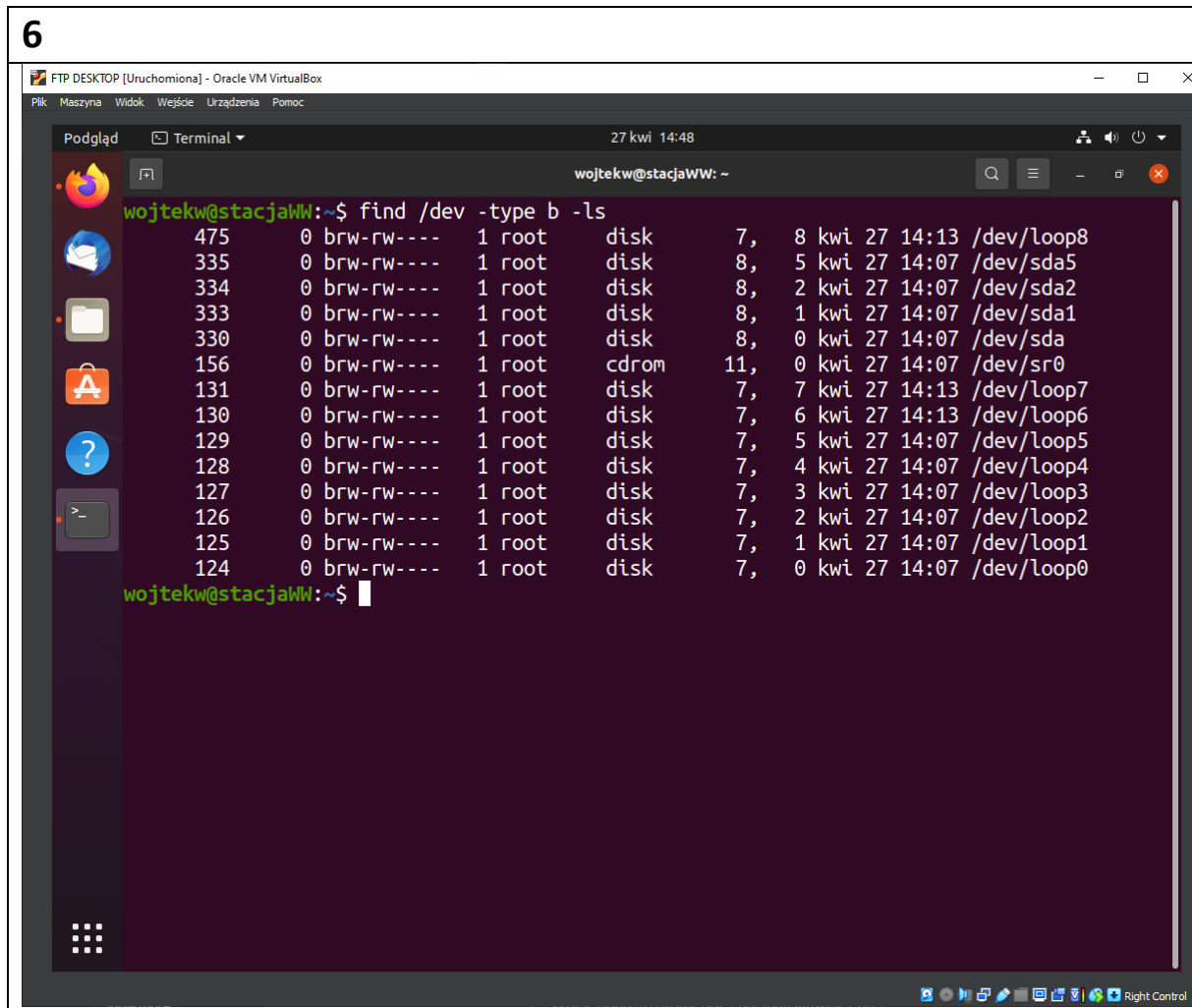
wojtek@stacjaWW:~$ find /etc -type f -size 1M -ls
264334 4 -rw-r--r-- 1 root root 510 cze 23 2020 /etc/snmp/snmp.conf
263760 4 -rwxr-xr-x 1 root root 3152 wrz 30 2019 /etc/init.d/dbus
263784 4 -rwxr-xr-x 1 root root 2083 sty 21 2020 /etc/init.d/ufw
263788 4 -rwxr-xr-x 1 root root 2757 sty 20 2017 /etc/init.d/x11-common
263749 4 -rwxr-xr-x 1 root root 2055 lip 16 2019 /etc/init.d/anacron
263779 4 -rwxr-xr-x 1 root root 2224 lut 11 2020 /etc/init.d/sane
263774 4 -rwxr-xr-x 1 root root 612 lut 8 2019 /etc/init.d/pppd
263777 8 -rwxr-xr-x 1 root root 4417 sie 16 2022 /etc/init.d/rsync
263761 4 -rwxr-xr-x 1 root root 3033 lis 10 2020 /etc/init.d/gdm3
263754 4 -rwxr-xr-x 1 root root 1232 mar 27 2020 /etc/init.d/console-setup.sh
263762 4 -rwxr-xr-x 1 root root 985 sty 11 2022 /etc/init.d/grub
263776 4 -rwxr-xr-x 1 root root 469 paź 15 2020 /etc/init.d/pulseaudio-enable-autospawn
263763 4 -rwxr-xr-x 1 root root 3809 lip 28 2019 /etc/init.d/hwclock.sh
263645 4 -rwxr-xr-x 1 root root 1846 wrz 8 2022 /etc/init.d/open-vm-tools
263783 8 -rwxr-xr-x 1 root root 6872 kwi 22 2020 /etc/init.d/udev
263786 4 -rwxr-xr-x 1 root root 1306 lut 7 2022 /etc/init.d/uuidgen
263755 4 -rwxr-xr-x 1 root root 3059 lut 11 2020 /etc/init.d/cron
```

3





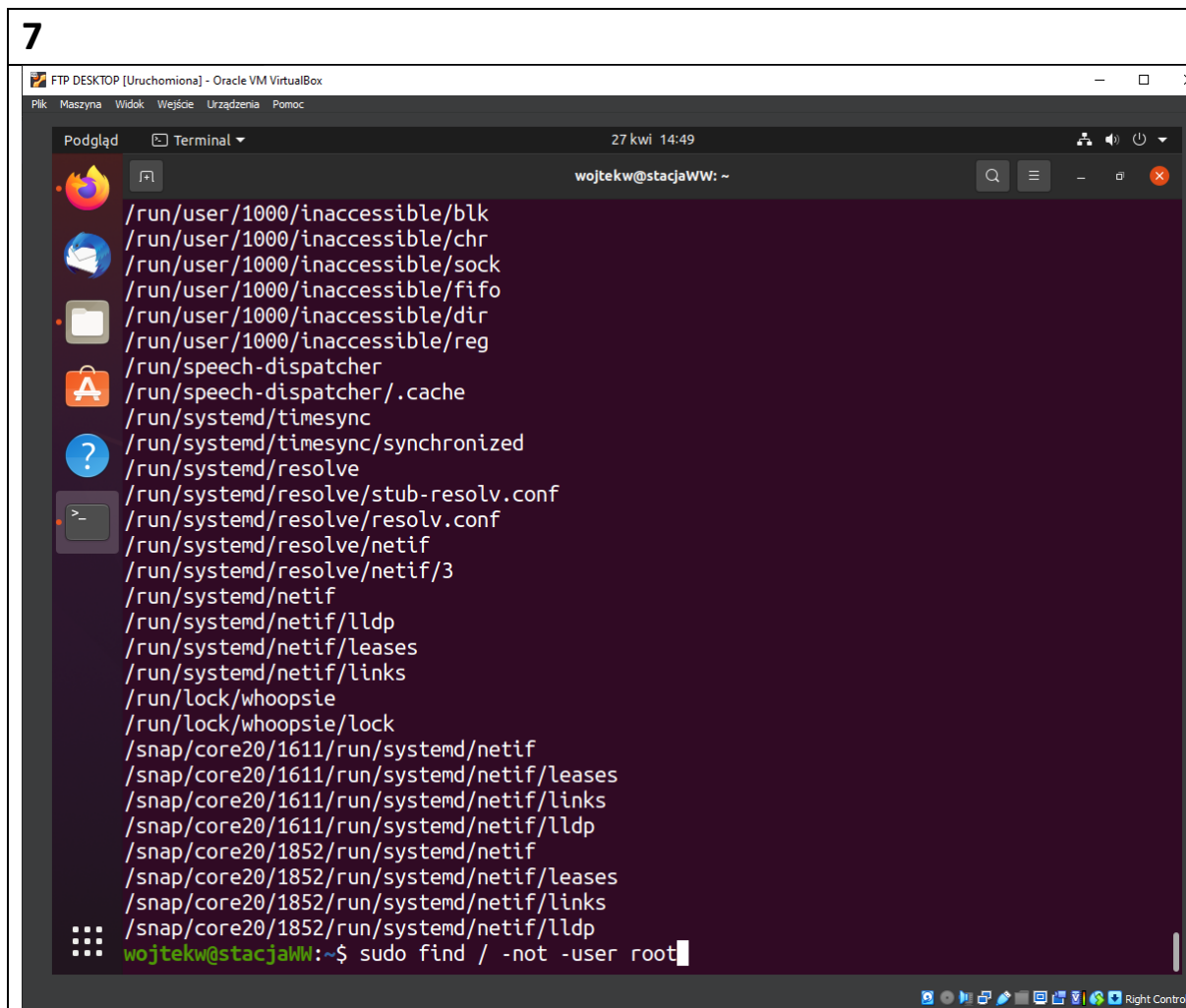




The screenshot shows a terminal window titled "FTP DESKTOP [Uruchomiona] - Oracle VM VirtualBox". The terminal is running the command `find /dev -type b -ls` as the user `wojtek` on the host `stacjaWW`. The output lists various block devices with their permissions, owner, group, device type, major and minor numbers, and full path.

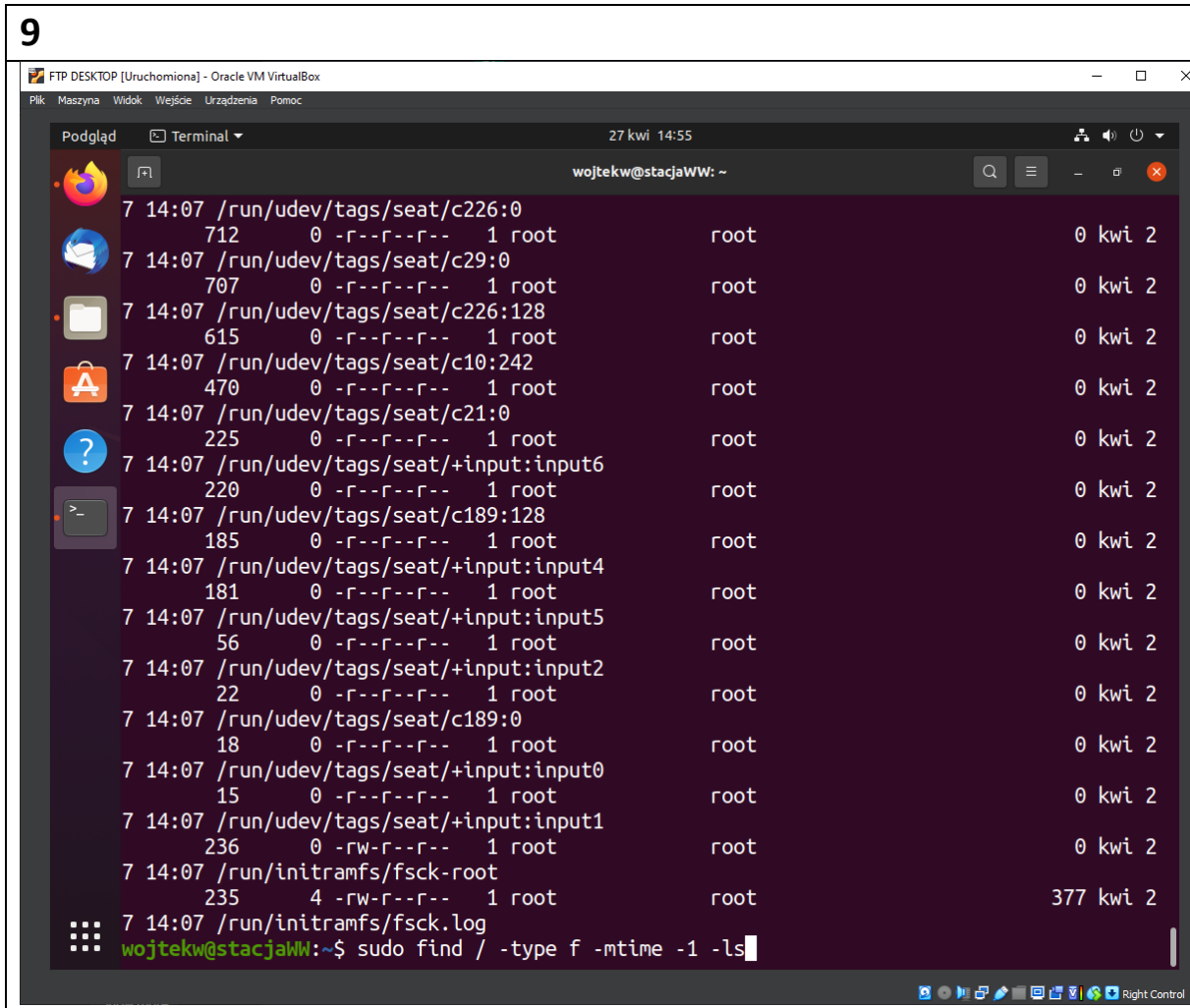
```
wojtek@stacjaWW:~$ find /dev -type b -ls
475    0 brw-rw----  1 root   disk      7,  8 kwi 27 14:13 /dev/loop8
335    0 brw-rw----  1 root   disk      8,  5 kwi 27 14:07 /dev/sda5
334    0 brw-rw----  1 root   disk      8,  2 kwi 27 14:07 /dev/sda2
333    0 brw-rw----  1 root   disk      8,  1 kwi 27 14:07 /dev/sda1
330    0 brw-rw----  1 root   disk      8,  0 kwi 27 14:07 /dev/sda
156    0 brw-rw----  1 root   cdrom     11,  0 kwi 27 14:07 /dev/sr0
131    0 brw-rw----  1 root   disk      7,  7 kwi 27 14:13 /dev/loop7
130    0 brw-rw----  1 root   disk      7,  6 kwi 27 14:13 /dev/loop6
129    0 brw-rw----  1 root   disk      7,  5 kwi 27 14:07 /dev/loop5
128    0 brw-rw----  1 root   disk      7,  4 kwi 27 14:07 /dev/loop4
127    0 brw-rw----  1 root   disk      7,  3 kwi 27 14:07 /dev/loop3
126    0 brw-rw----  1 root   disk      7,  2 kwi 27 14:07 /dev/loop2
125    0 brw-rw----  1 root   disk      7,  1 kwi 27 14:07 /dev/loop1
124    0 brw-rw----  1 root   disk      7,  0 kwi 27 14:07 /dev/loop0

wojtek@stacjaWW:~$
```



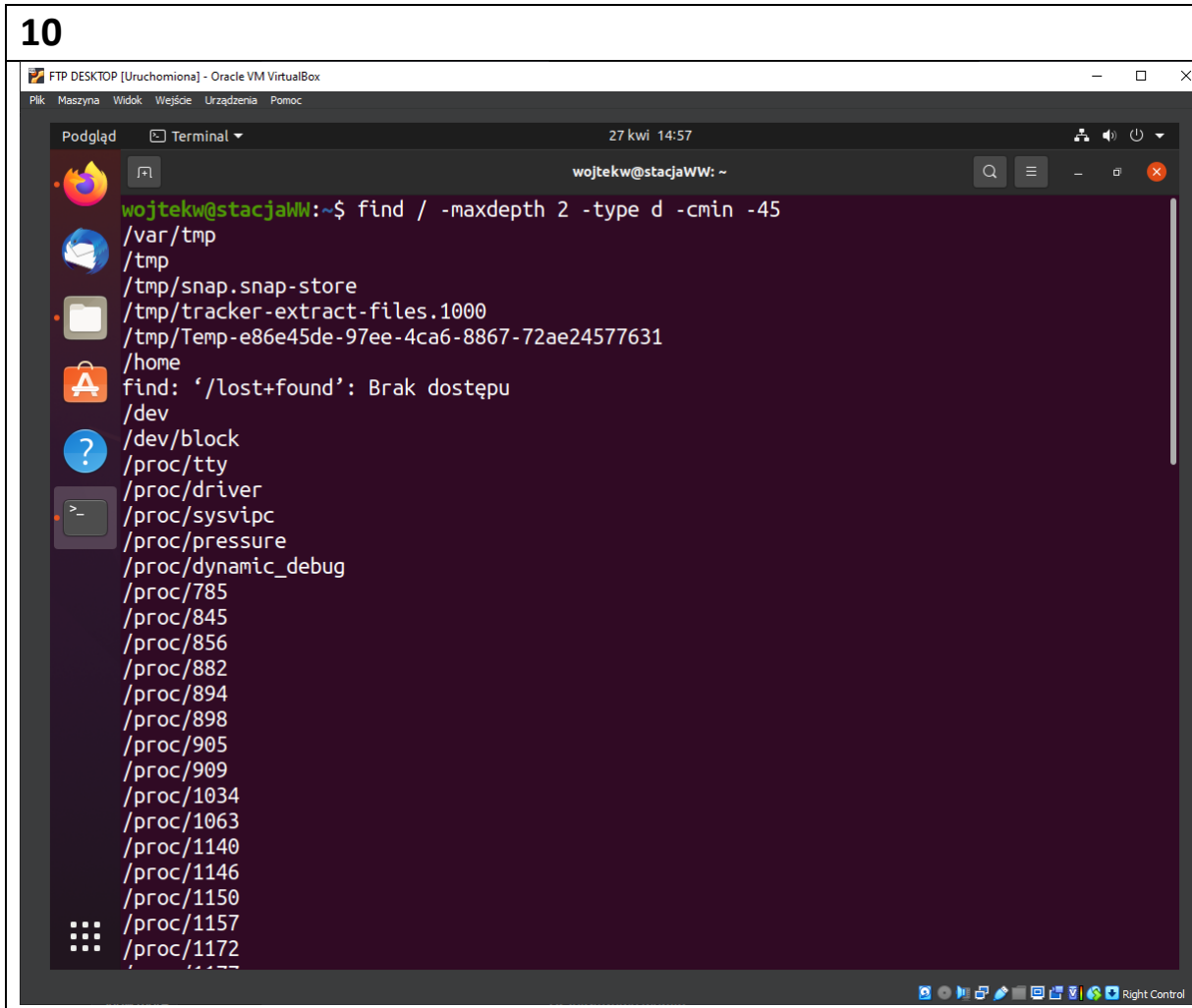
The screenshot shows a terminal window titled "FTP DESKTOP [Uruchomiona] - Oracle VM VirtualBox". The terminal is running a command to find files owned by root, excluding the root user's own files. The output lists various system and application directories and files.

```
wojtekww@stacjaWW: ~  
/run/user/1000/inaccessible/blk  
/run/user/1000/inaccessible/chr  
/run/user/1000/inaccessible/sock  
/run/user/1000/inaccessible/fifo  
/run/user/1000/inaccessible/dir  
/run/user/1000/inaccessible/reg  
/run/speech-dispatcher  
/run/speech-dispatcher/.cache  
/run/systemd/timesync  
/run/systemd/timesync/synchronized  
/run/systemd/resolve  
/run/systemd/resolve/stub-resolv.conf  
/run/systemd/resolve/resolv.conf  
/run/systemd/resolve/netif  
/run/systemd/resolve/netif/3  
/run/systemd/netif  
/run/systemd/netif/lldp  
/run/systemd/netif/leases  
/run/systemd/netif/links  
/run/lock/whoopsie  
/run/lock/whoopsie/lock  
/snap/core20/1611/run/systemd/netif  
/snap/core20/1611/run/systemd/netif/leases  
/snap/core20/1611/run/systemd/netif/links  
/snap/core20/1611/run/systemd/netif/lldp  
/snap/core20/1852/run/systemd/netif  
/snap/core20/1852/run/systemd/netif/leases  
/snap/core20/1852/run/systemd/netif/links  
/snap/core20/1852/run/systemd/netif/lldp  
wojtekww@stacjaWW:~$ sudo find / -not -user root
```

The screenshot shows a terminal window titled "FTP DESKTOP [Uruchomiona] - Oracle VM VirtualBox". The terminal output displays system boot logs for the "seat" directory, listing files and their permissions, owners, and sizes. The logs are timestamped "7 14:07". The files listed include various udev tags and initramfs files. The terminal prompt is "wojtekww@stacjaWW: ~".

```
7 14:07 /run/udev/tags/seat/c226:0
712 0 -r--r--r-- 1 root root 0 kwi 2
7 14:07 /run/udev/tags/seat/c29:0
707 0 -r--r--r-- 1 root root 0 kwi 2
7 14:07 /run/udev/tags/seat/c226:128
615 0 -r--r--r-- 1 root root 0 kwi 2
7 14:07 /run/udev/tags/seat/c10:242
470 0 -r--r--r-- 1 root root 0 kwi 2
7 14:07 /run/udev/tags/seat/c21:0
225 0 -r--r--r-- 1 root root 0 kwi 2
7 14:07 /run/udev/tags/seat/+input:input6
220 0 -r--r--r-- 1 root root 0 kwi 2
7 14:07 /run/udev/tags/seat/c189:128
185 0 -r--r--r-- 1 root root 0 kwi 2
7 14:07 /run/udev/tags/seat/+input:input4
181 0 -r--r--r-- 1 root root 0 kwi 2
7 14:07 /run/udev/tags/seat/+input:input5
56 0 -r--r--r-- 1 root root 0 kwi 2
7 14:07 /run/udev/tags/seat/+input:input2
22 0 -r--r--r-- 1 root root 0 kwi 2
7 14:07 /run/udev/tags/seat/c189:0
18 0 -r--r--r-- 1 root root 0 kwi 2
7 14:07 /run/udev/tags/seat/+input:input0
15 0 -r--r--r-- 1 root root 0 kwi 2
7 14:07 /run/udev/tags/seat/+input:input1
236 0 -rw-r--r-- 1 root root 0 kwi 2
7 14:07 /run/initramfs/fsck-root
235 4 -rw-r--r-- 1 root root 377 kwi 2
7 14:07 /run/initramfs/fsck.log
wojtekww@stacjaWW:~$ sudo find / -type f -mtime -1 -ls
```



The screenshot shows a terminal window titled "FTP DESKTOP [Uruchomiona] - Oracle VM VirtualBox". The terminal is running a command to find directories within a specific depth and permissions. The output lists various system directories and files, including /var/tmp, /tmp, /tmp/snap.snap-store, /tmp/tracker-extract-files.1000, /tmp/Temp-e86e45de-97ee-4ca6-8867-72ae24577631, /home, /dev, /dev/block, /proc/tty, /proc/driver, /proc/sysvipc, /proc/pressure, /proc/dynamic_debug, and several /proc/[PID] entries.

```
wojtekww@stacjaWW: ~$ find / -maxdepth 2 -type d -cmin -45
/var/tmp
/tmp
/tmp/snap.snap-store
/tmp/tracker-extract-files.1000
/tmp/Temp-e86e45de-97ee-4ca6-8867-72ae24577631
/home
find: '/lost+found': Brak dostępu
/dev
/dev/block
/proc/tty
/proc/driver
/proc/sysvipc
/proc/pressure
/proc/dynamic_debug
/proc/785
/proc/845
/proc/856
/proc/882
/proc/894
/proc/898
/proc/905
/proc/909
/proc/1034
/proc/1063
/proc/1140
/proc/1146
/proc/1150
/proc/1157
/proc/1172
```

