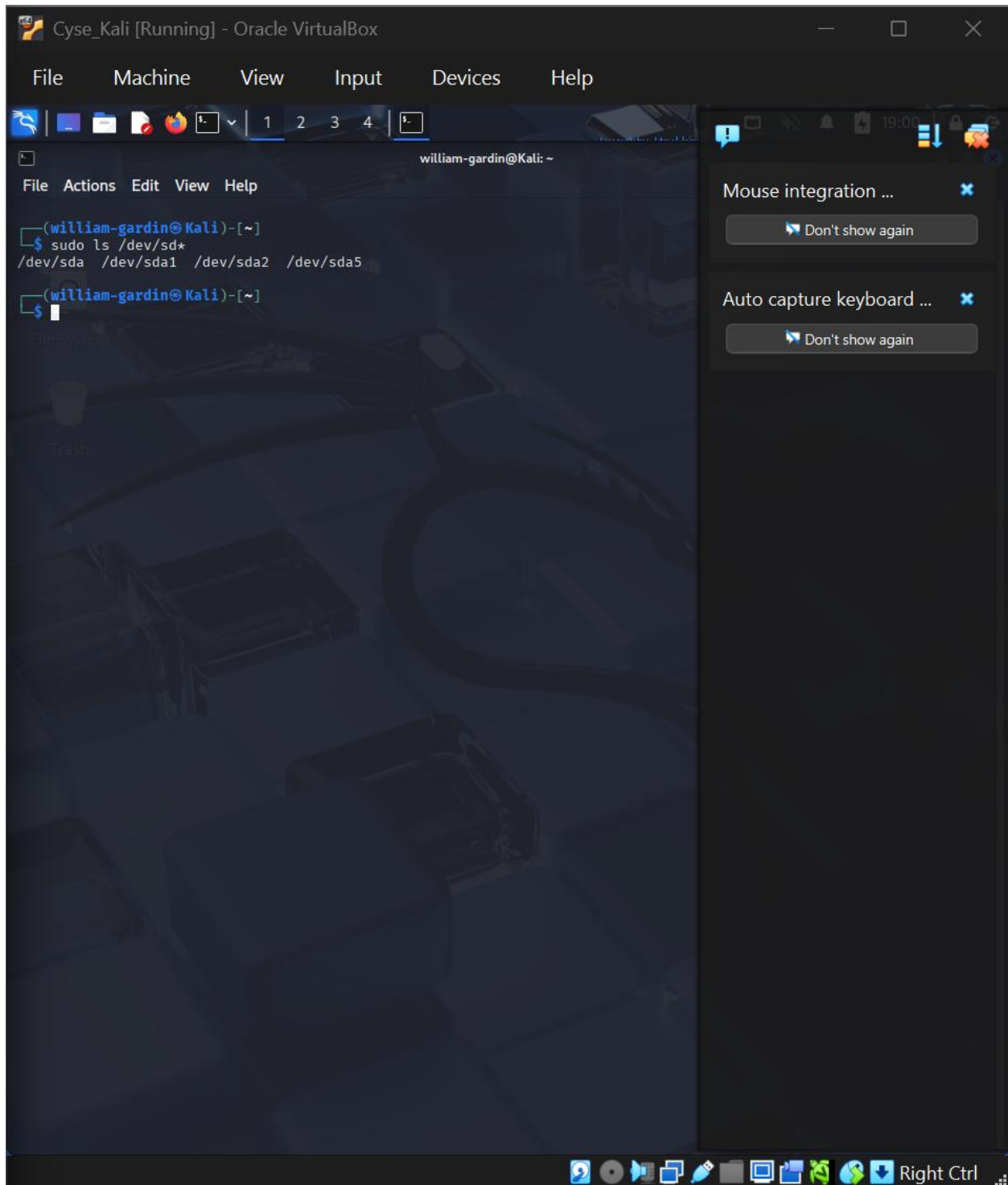
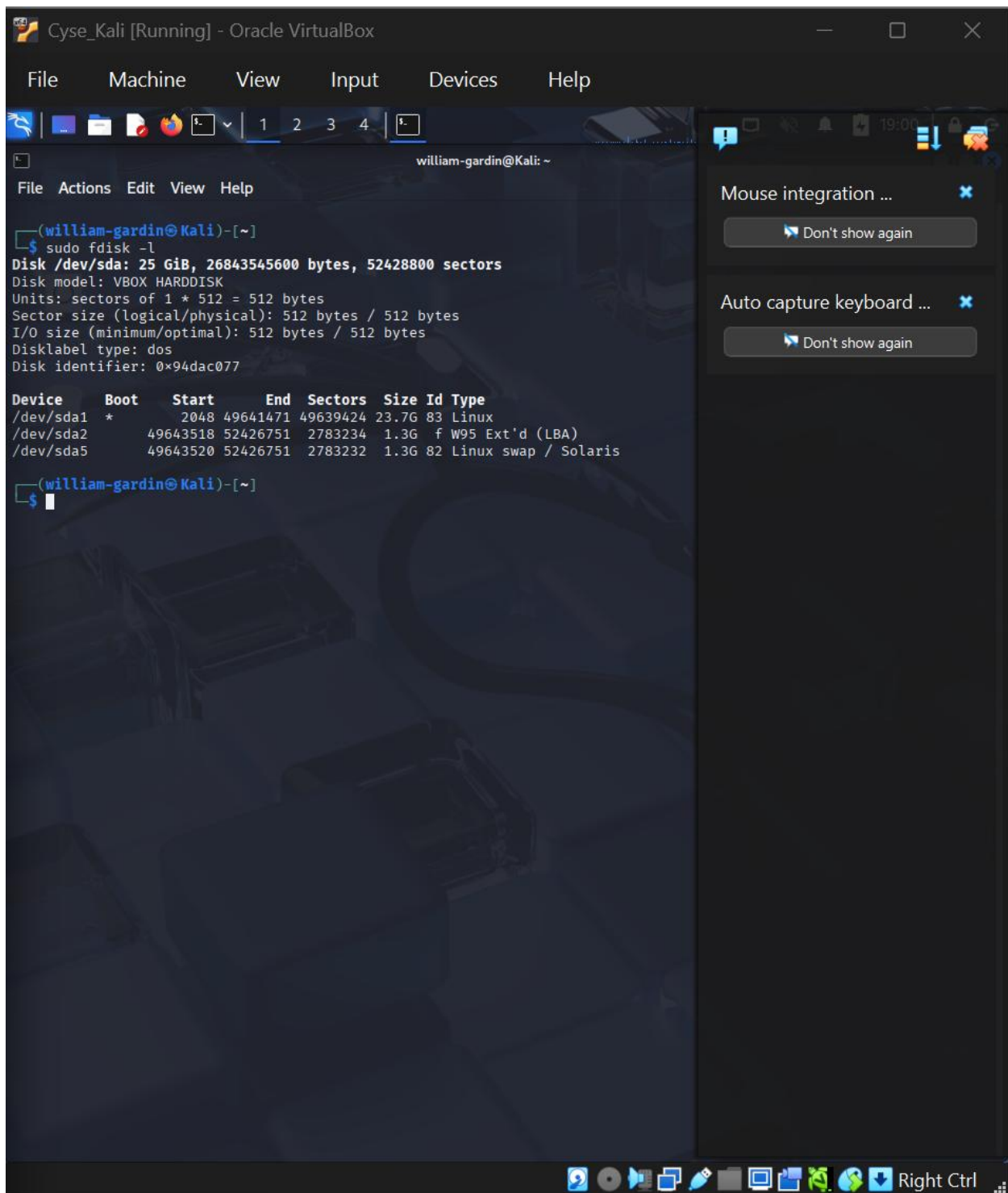


Part 1

1.



2.



3.

Cyse_Kali [Running] - Oracle VirtualBox

File Machine View Input Devices Help

william-gardin@Kali: ~

File Actions Edit View Help

```
(william-gardin@Kali)-[~]
$ sudo fdisk -l
Disk /dev/sda: 25 GiB, 26843545600 bytes, 52428800 sectors
Disk model: VBOX HARDDISK
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: 0x94dac077

Device Boot      Start         End      Sectors  Size Id Type
/dev/sda1 *        2048     49641471   49639424   23.7G 83 Linux
/dev/sda2          49643518   52426751    2783234    1.3G  f W95 Ext'd (LBA)
/dev/sda5          49643520   52426751    2783232    1.3G  82 Linux swap / Solaris

(william-gardin@Kali)-[~]
$ sudo parted -l
Model: ATA VBOX HARDDISK (scsi)
Disk /dev/sda: 26.8GB
Sector size (logical/physical): 512B/512B
Partition Table: msdos
Disk Flags:

Number  Start   End     Size    Type     File system  Flags
 1      1049kB 25.4GB 25.4GB  primary ext4         boot
 2      25.4GB 26.8GB 1425MB extended          lba
 5      25.4GB 26.8GB 1425MB logical  linux-swap(v1) swap
```

(william-gardin@Kali)-[~]

\$

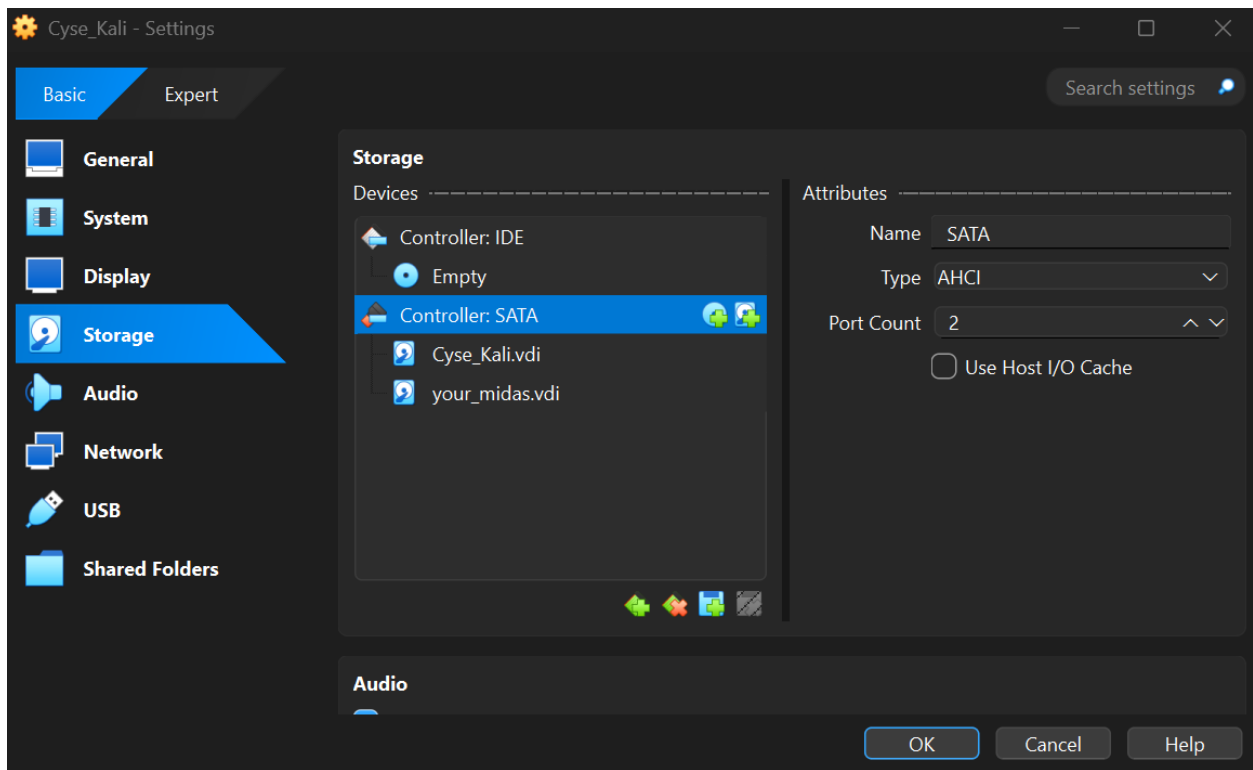
Mouse integration ...
Don't show again

Auto capture keyboard ...
Don't show again

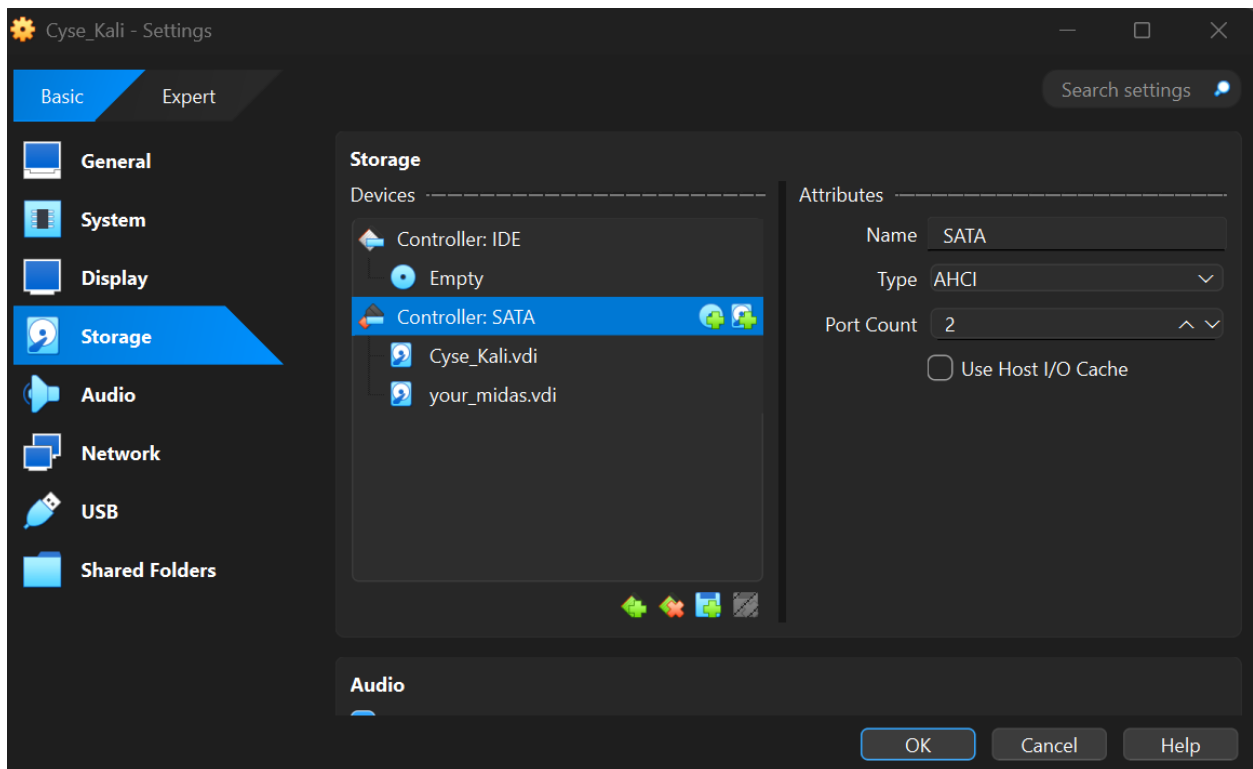
Right Ctrl

Part 2

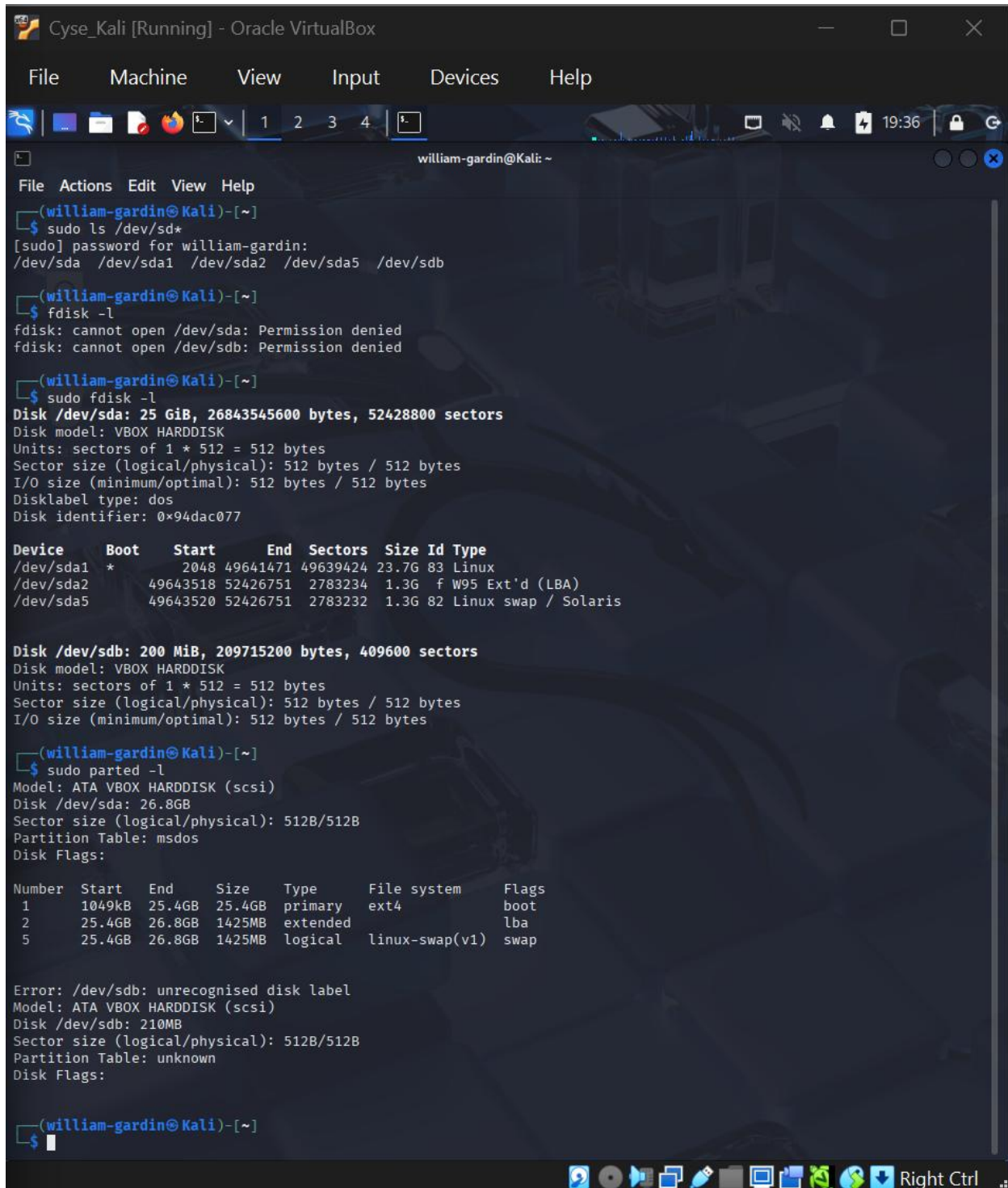
1.



2.



3. Some differences between this and the previous version is that for “sudo ls /dev/sd*”, “/dev/sdb” was added on to the list. For “sudo fdisk -l”, there was a separate section for disk “/dev/sdb”. For “sudo parted -l”. It stated at the end that “/dev/sdb” was an unrecognized label



```
(william-gardin@Kali)-[~]
$ sudo ls /dev/sd*
[sudo] password for william-gardin:
/dev/sda /dev/sda1 /dev/sda2 /dev/sda5 /dev/sdb

(william-gardin@Kali)-[~]
$ fdisk -l
fdisk: cannot open /dev/sda: Permission denied
fdisk: cannot open /dev/sdb: Permission denied

(william-gardin@Kali)-[~]
$ sudo fdisk -l
Disk /dev/sda: 25 GiB, 26843545600 bytes, 52428800 sectors
Disk model: VBOX HARDDISK
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: 0x94dac077

Device Boot      Start         End      Sectors  Size Id Type
/dev/sda1 *        2048     49641471   49639424   23.7G 83 Linux
/dev/sda2          49643518   52426751    2783234    1.3G  f W95 Ext'd (LBA)
/dev/sda5          49643520   52426751    2783232    1.3G 82 Linux swap / Solaris

Disk /dev/sdb: 200 MiB, 209715200 bytes, 409600 sectors
Disk model: VBOX HARDDISK
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes

(william-gardin@Kali)-[~]
$ sudo parted -l
Model: ATA VBOX HARDDISK (scsi)
Disk /dev/sda: 26.8GB
Sector size (logical/physical): 512B/512B
Partition Table: msdos
Disk Flags:

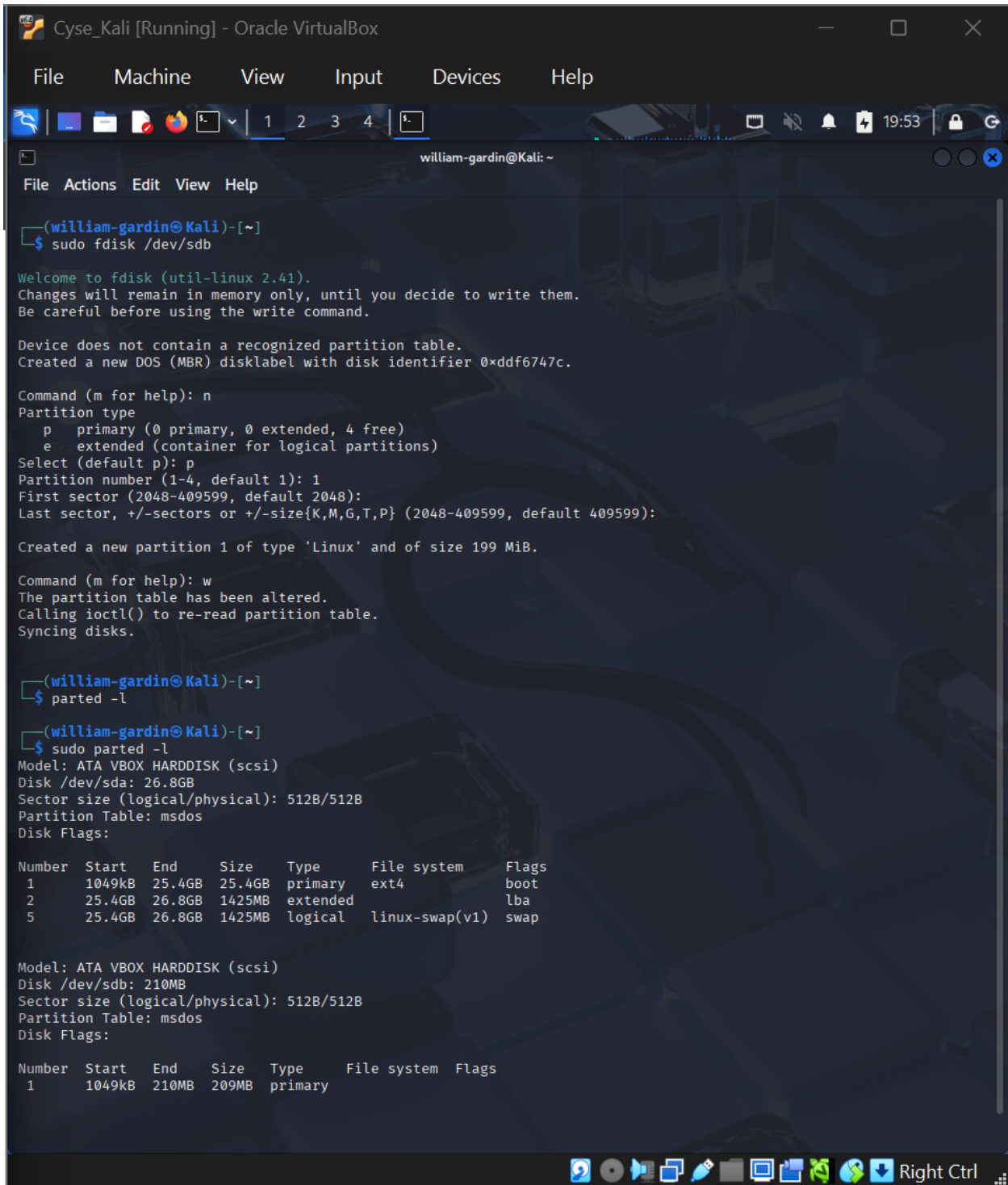
Number  Start   End     Size    Type     File system  Flags
 1      1049kB 25.4GB 25.4GB  primary ext4         boot
 2      25.4GB 26.8GB 1425MB extended lba
 5      25.4GB 26.8GB 1425MB logical linux-swap(v1) swap

Error: /dev/sdb: unrecognised disk label
Model: ATA VBOX HARDDISK (scsi)
Disk /dev/sdb: 210MB
Sector size (logical/physical): 512B/512B
Partition Table: unknown
Disk Flags:

(william-gardin@Kali)-[~]
$
```

Part 3

1.



```
Cyse_Kali [Running] - Oracle VirtualBox
File Machine View Input Devices Help

william-gardin@Kali: ~
File Actions Edit View Help

(william-gardin@Kali)-[~]
$ sudo fdisk /dev/sdb

Welcome to fdisk (util-linux 2.41).
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Device does not contain a recognized partition table.
Created a new DOS (MBR) disklabel with disk identifier 0xddf6747c.

Command (m for help): n
Partition type
   p   primary (0 primary, 0 extended, 4 free)
   e   extended (container for logical partitions)
Select (default p): p
Partition number (1-4, default 1): 1
First sector (2048-409599, default 2048):
Last sector, +/-sectors or +/-size{K,M,G,T,P} (2048-409599, default 409599):

Created a new partition 1 of type 'Linux' and of size 199 MiB.

Command (m for help): w
The partition table has been altered.
Calling ioctl() to re-read partition table.
Syncing disks.

(william-gardin@Kali)-[~]
$ parted -l

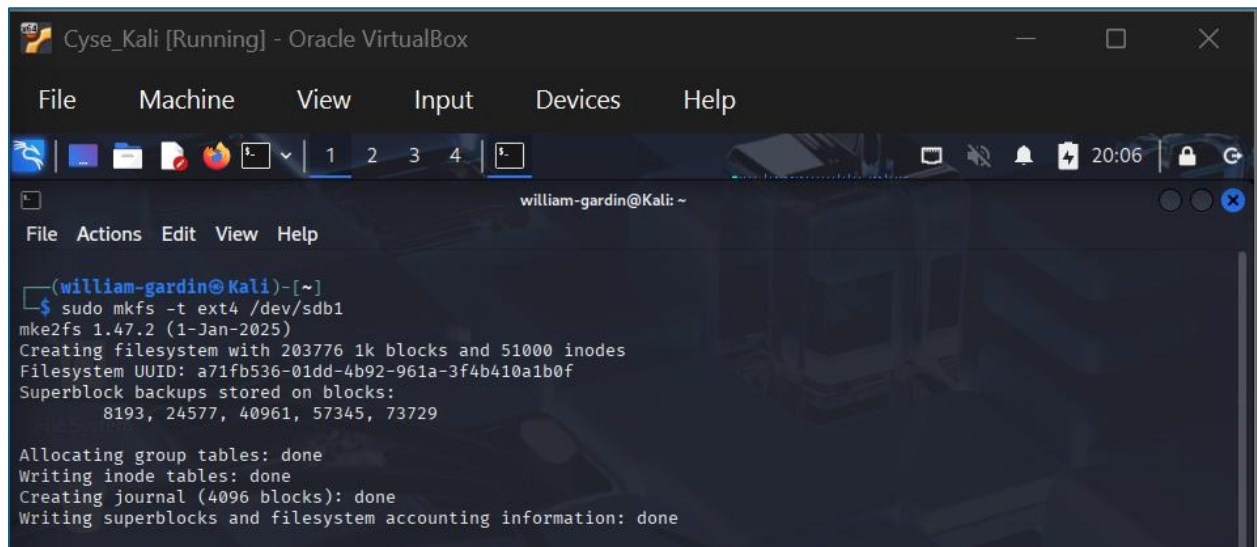
(william-gardin@Kali)-[~]
$ sudo parted -l
Model: ATA VBOX HARDDISK (scsi)
Disk /dev/sda: 26.8GB
Sector size (logical/physical): 512B/512B
Partition Table: msdos
Disk Flags:

Number  Start   End     Size    Type     File system  Flags
  1      1049kB  25.4GB  25.4GB  primary  ext4         boot
  2      25.4GB  26.8GB  1425MB  extended lba
  5      25.4GB  26.8GB  1425MB  logical  linux-swap(v1) swap

Model: ATA VBOX HARDDISK (scsi)
Disk /dev/sdb: 210MB
Sector size (logical/physical): 512B/512B
Partition Table: msdos
Disk Flags:

Number  Start   End     Size    Type     File system  Flags
  1      1049kB  210MB   209MB   primary
```

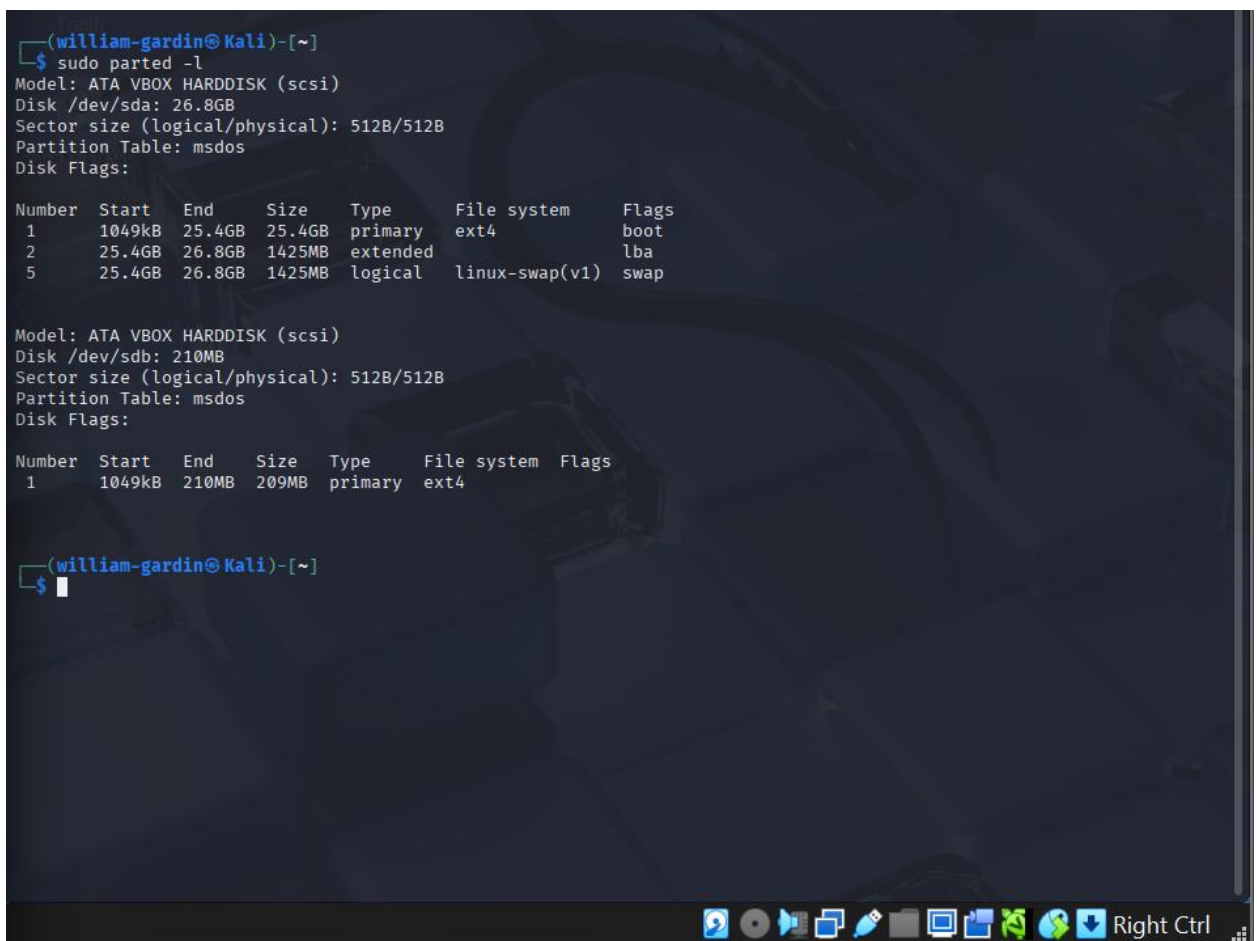
2. The difference that I found is that the hard disk now has a file system of ext4.



```
Cyse_Kali [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
william-gardin@Kali: ~
File Actions Edit View Help
(william-gardin@Kali)-[~]
$ sudo mkfs -t ext4 /dev/sdb1
mke2fs 1.47.2 (1-Jan-2025)
Creating filesystem with 203776 1k blocks and 51000 inodes
Filesystem UUID: a71fb536-01dd-4b92-961a-3f4b410a1b0f
Superblock backups stored on blocks:
    8193, 24577, 40961, 57345, 73729

Allocating group tables: done
Writing inode tables: done
Creating journal (4096 blocks): done
Writing superblocks and filesystem accounting information: done
```

3. The difference that I found is that the hard disk now has a file system of ext4.



```
(william-gardin@Kali)-[~]
$ sudo parted -l
Model: ATA VBOX HARDDISK (scsi)
Disk /dev/sda: 26.8GB
Sector size (logical/physical): 512B/512B
Partition Table: msdos
Disk Flags:

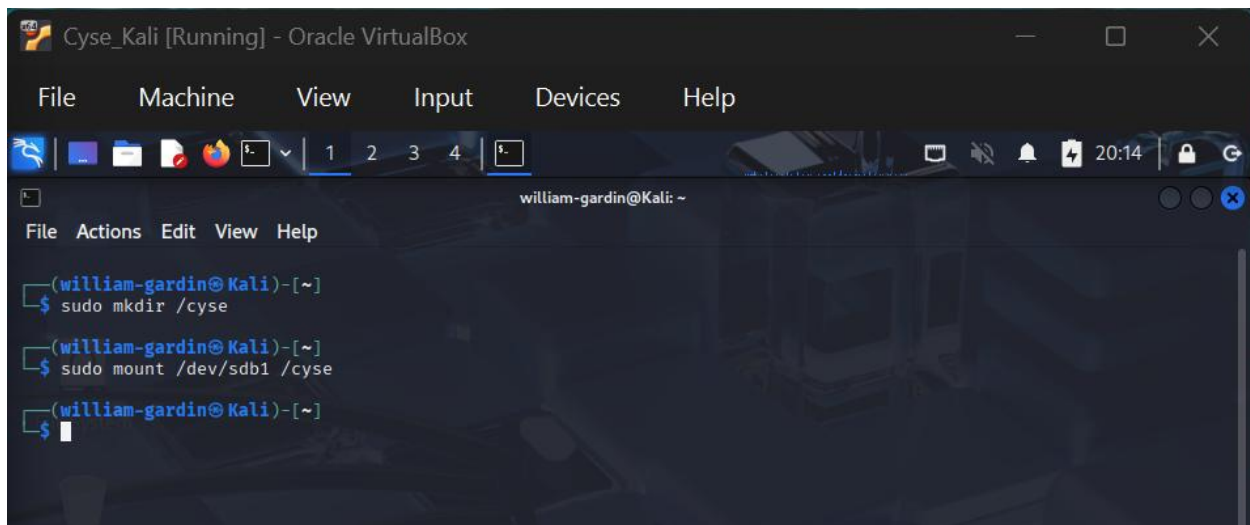
Number  Start   End     Size    Type     File system  Flags
 1      1049kB  25.4GB  25.4GB  primary  ext4         boot
 2      25.4GB  26.8GB  1425MB  extended
 5      25.4GB  26.8GB  1425MB  logical  linux-swap(v1) swap

Model: ATA VBOX HARDDISK (scsi)
Disk /dev/sdb: 210MB
Sector size (logical/physical): 512B/512B
Partition Table: msdos
Disk Flags:

Number  Start   End     Size    Type     File system  Flags
 1      1049kB  210MB   209MB   primary  ext4

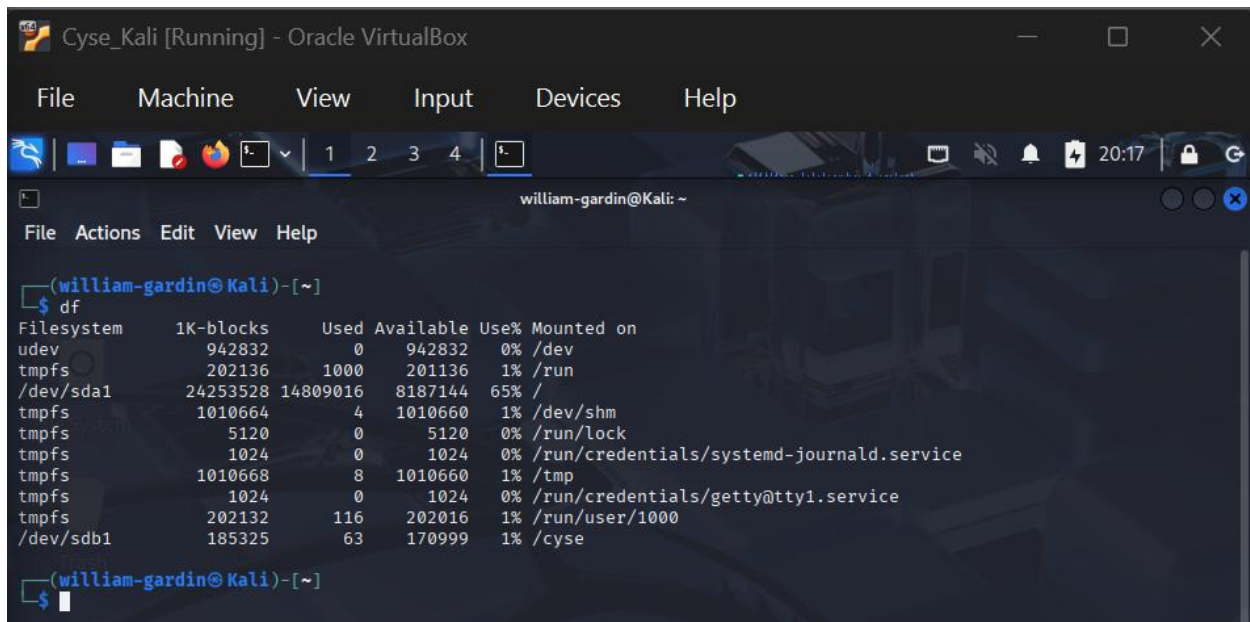
(william-gardin@Kali)-[~]
$
```

4.



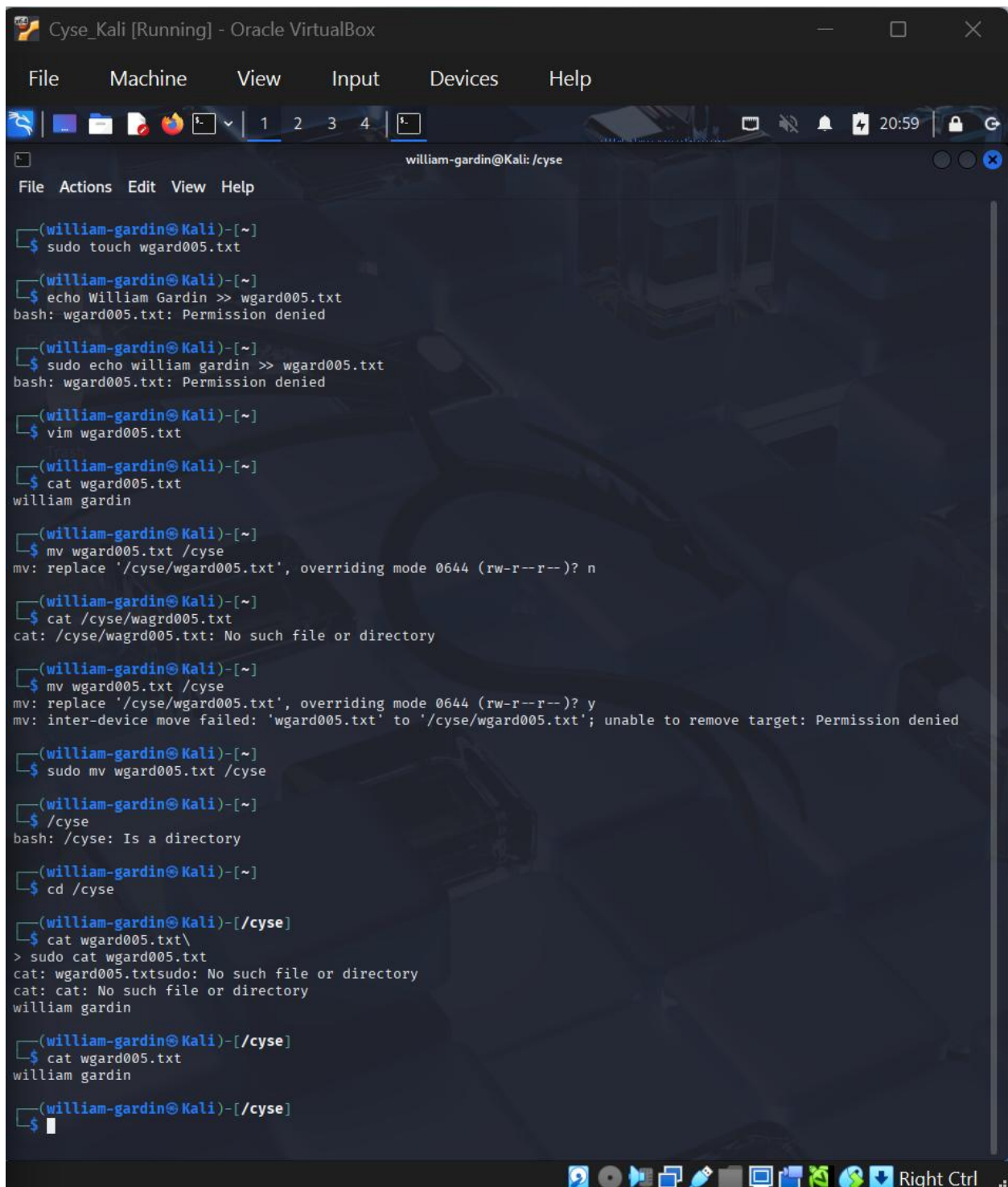
```
Cyse_Kali [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
william-gardin@Kali: ~
File Actions Edit View Help
(william-gardin@Kali)-[~]
$ sudo mkdir /cyse
(william-gardin@Kali)-[~]
$ sudo mount /dev/sdb1 /cyse
(william-gardin@Kali)-[~]
$
```

5.



```
Cyse_Kali [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
william-gardin@Kali: ~
File Actions Edit View Help
(william-gardin@Kali)-[~]
$ df
Filesystem      1K-blocks    Used Available Use% Mounted on
udev            942832         0   942832    0% /dev
tmpfs           202136       1000   201136    1% /run
/dev/sda1       24253528 14809016  8187144   65% /
tmpfs           1010664         4   1010660    1% /dev/shm
tmpfs            5120         0     5120    0% /run/lock
tmpfs           1024         0     1024    0% /run/credentials/systemd-journald.service
tmpfs           1010668         8   1010660    1% /tmp
tmpfs            1024         0     1024    0% /run/credentials/getty@tty1.service
tmpfs           202132       116   202016    1% /run/user/1000
/dev/sdb1       185325         63   170999    1% /cyse
(william-gardin@Kali)-[~]
$
```

6.



```
Cyse_Kali [Running] - Oracle VirtualBox
File Machine View Input Devices Help

william-gardin@Kali: /cyse
File Actions Edit View Help

(william-gardin@Kali)-[~]
$ sudo touch wgard005.txt

(william-gardin@Kali)-[~]
$ echo William Gardin >> wgard005.txt
bash: wgard005.txt: Permission denied

(william-gardin@Kali)-[~]
$ sudo echo william gardin >> wgard005.txt
bash: wgard005.txt: Permission denied

(william-gardin@Kali)-[~]
$ vim wgard005.txt

(william-gardin@Kali)-[~]
$ cat wgard005.txt
william gardin

(william-gardin@Kali)-[~]
$ mv wgard005.txt /cyse
mv: replace '/cyse/wgard005.txt', overriding mode 0644 (rw-r--r--)? n

(william-gardin@Kali)-[~]
$ cat /cyse/wagr005.txt
cat: /cyse/wagr005.txt: No such file or directory

(william-gardin@Kali)-[~]
$ mv wgard005.txt /cyse
mv: replace '/cyse/wgard005.txt', overriding mode 0644 (rw-r--r--)? y
mv: inter-device move failed: 'wgard005.txt' to '/cyse/wgard005.txt'; unable to remove target: Permission denied

(william-gardin@Kali)-[~]
$ sudo mv wgard005.txt /cyse

(william-gardin@Kali)-[~]
$ /cyse
bash: /cyse: Is a directory

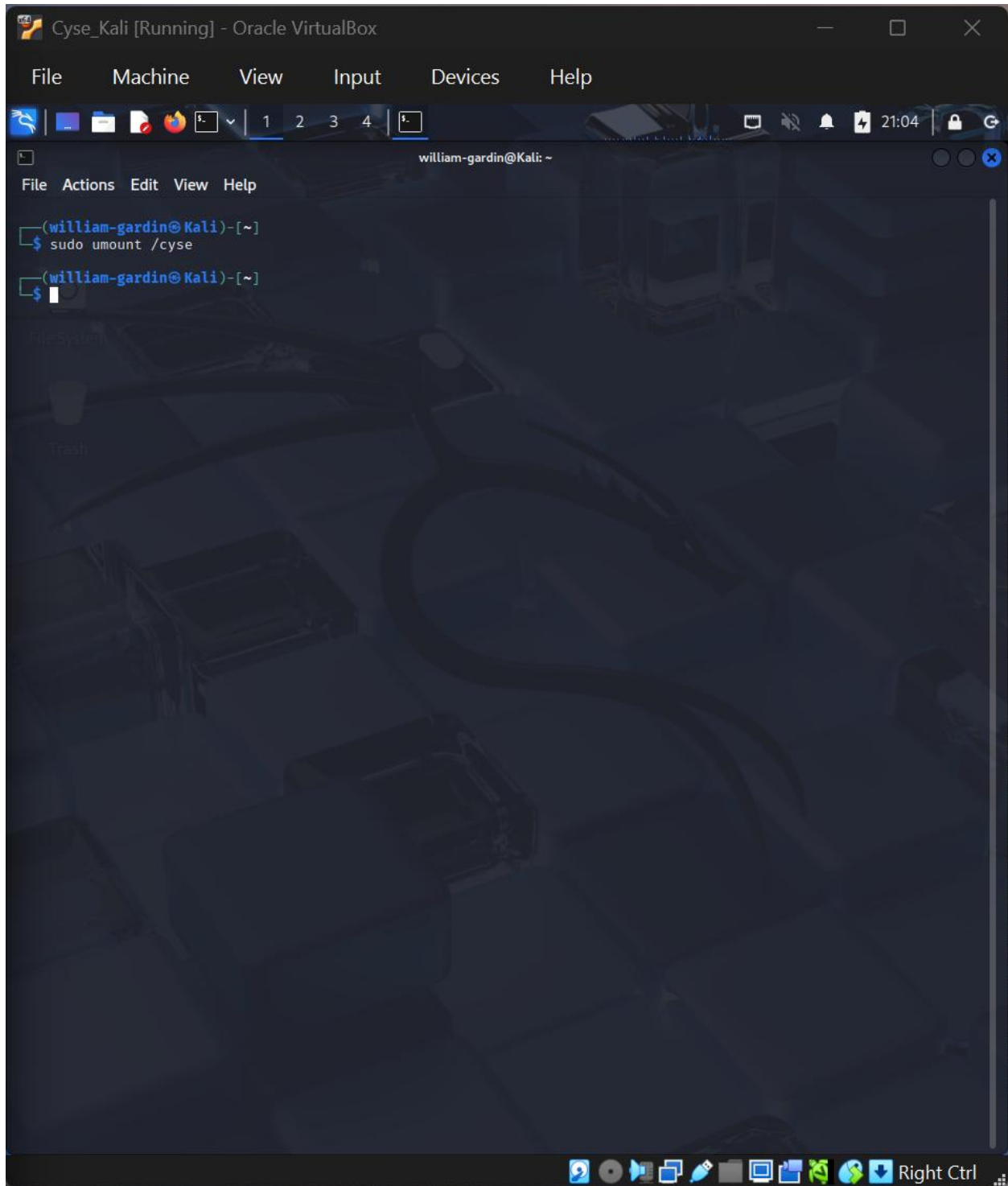
(william-gardin@Kali)-[~]
$ cd /cyse

(william-gardin@Kali)-[/cyse]
$ cat wgard005.txt\
> sudo cat wgard005.txt
cat: wgard005.txt: No such file or directory
cat: cat: No such file or directory
william gardin

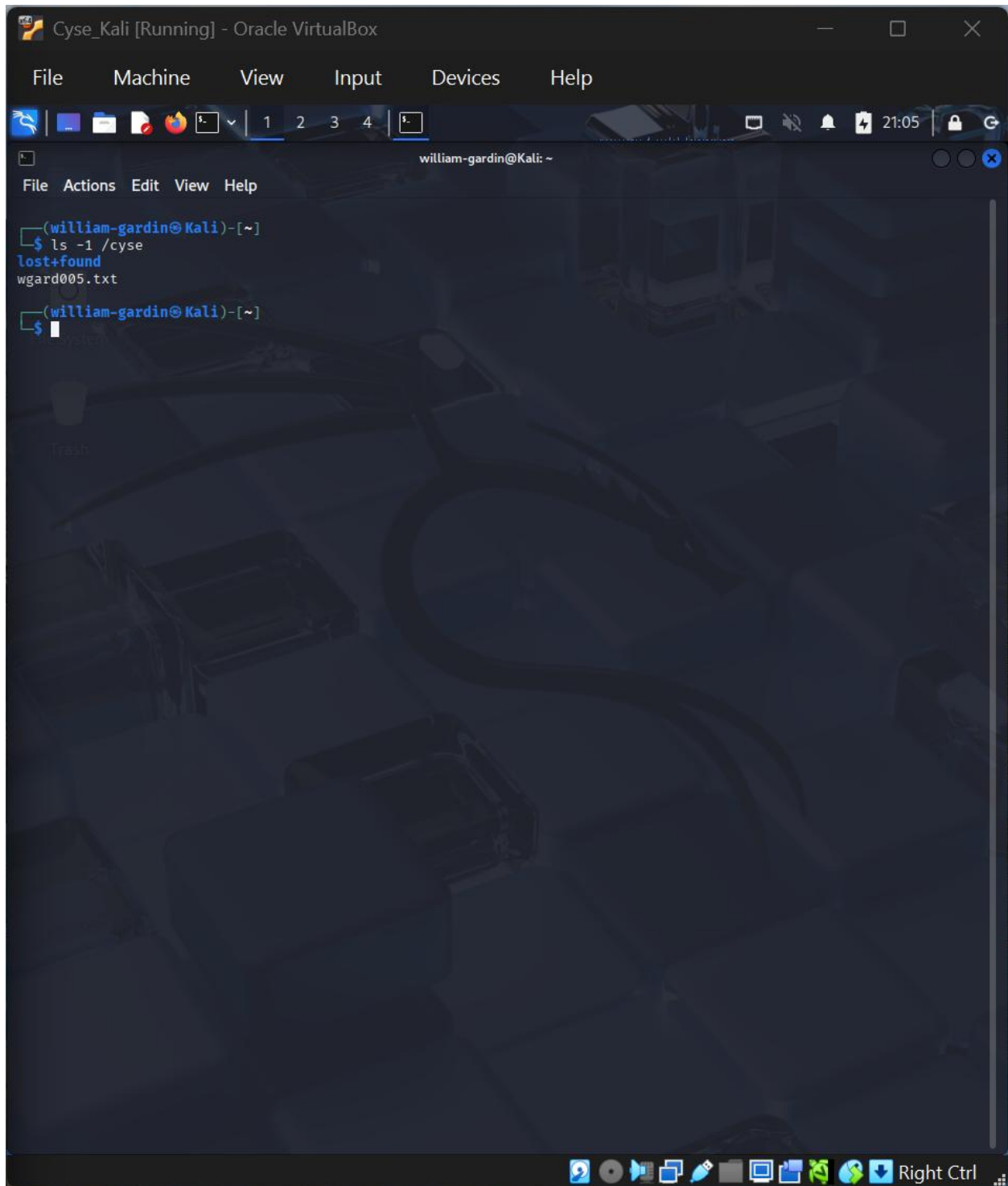
(william-gardin@Kali)-[/cyse]
$ cat wgard005.txt
william gardin

(william-gardin@Kali)-[/cyse]
$
```

7.



8. When checking the contents of the /cyse directory, the “wgard005.txt” was moved into a lost and found category.



```
Cyse_Kali [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
william-gardin@Kali: ~
File Actions Edit View Help
(william-gardin@Kali)-[~]
$ ls -l /cyse
lost+found
wgard005.txt
(william-gardin@Kali)-[~]
$
```