

Part 1

1.

```
adrianvaal@kali: ~  
File Actions Edit View Help  
(adrianvaal@kali)-[~]  
$ sudo ls /dev/sd*  
[sudo] password for adrianvaal:  
/dev/sda /dev/sda1 /dev/sda2 /dev/sda5
```

2.

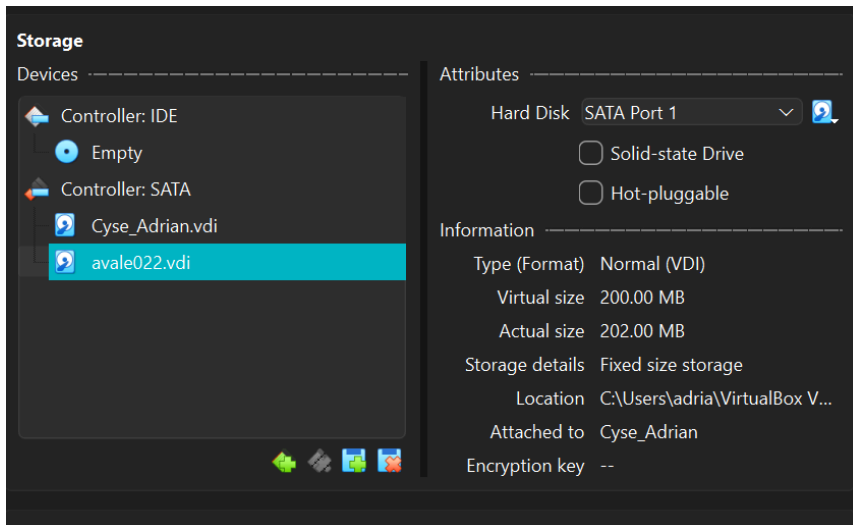
```
(adrianvaal@kali)-[~]  
$ sudo fdisk -l  
Disk /dev/sda: 25 GiB, 26843545600 bytes, 52428800 sectors  
Disk model: VBOX HARDDISK  
Units: sectors of 1 * 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 512 bytes  
I/O size (minimum/optimal): 512 bytes / 512 bytes  
Disklabel type: dos  
Disk identifier: 0xa9c7b80b  
  
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
```

3.

```
(adrianvaal@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
```

Part 2

1.



2.

```
(adrianvaal@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: 0xa9c7b80b

   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
```

3.

```

(adrianvaal@kali)-[~]
$ sudo ls /dev/sd*
/dev/sda /dev/sda1 /dev/sda2 /dev/sda5 /dev/sdb

(adrianvaal@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

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:

```

Fdisk L shows the new disk drive
 /dev/sd* shows the sdb partition
 Parted -l shows the disk characteristics

Part 3

1.

```

(adrianvaal@kali)-[~]
$ sudo fdisk /dev/sdb
[sudo] password for adrianvaal:

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 0xd4a60c9a.

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):

```

2.

```

(adrianvaal@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: 4918c186-1373-4439-9f36-61c8cf2c8707
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.

```

(adrianvaal@kali)-[~]
└─$ sudo ls /dev/sd*
/dev/sda /dev/sda1 /dev/sda2 /dev/sda5 /dev/sdb /dev/sdb1

(adrianvaal@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: 0xa9c7b80b

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
Disklabel type: dos
Disk identifier: 0xd4a60c9a

Device      Boot    Start        End    Sectors    Size Id Type
/dev/sdb1   *          2048    409599    407552    199M  83 Linux

(adrianvaal@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-swaps(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

```

/dev/sd* shows sdb1 now

Fdisk -l shows sdb and the characteristics

Parted -l shows the ext4

4.

```

(adrianvaal@kali)-[~]
└─$ sudo mkdir /cyse

(adrianvaal@kali)-[~]
└─$ sudo mount /dev/sdb1
mount: /dev/sdb1: can't find in /etc/fstab.

(adrianvaal@kali)-[~]
└─$ sudo mount /dev/sdb1 /cyse

```

5.

```
(adrianvaal@kali)-[~]
$ df -h
```

Filesystem	Size	Used	Avail	Use%	Mounted on
udev	921M	0	921M	0%	/dev
tmpfs	198M	1000K	197M	1%	/run
/dev/sda1	24G	15G	7.2G	68%	/
tmpfs	987M	4.0K	987M	1%	/dev/shm
tmpfs	5.0M	0	5.0M	0%	/run/lock
tmpfs	1.0M	0	1.0M	0%	/run/credentials/systemd-journald.service
tmpfs	987M	56K	987M	1%	/tmp
tmpfs	1.0M	0	1.0M	0%	/run/credentials/getty@tty1.service
tmpfs	198M	116K	198M	1%	/run/user/1000
/dev/sdb1	181M	63K	167M	1%	/cyse

6.

```
(adrianvaal@kali)-[~]
$ sudo touch /cyse/avale022.txt

(adrianvaal@kali)-[~]
$ sudo echo Adrian | sudo tee /cyse/avale022.txt
Adrian
```

7.

```
(adrianvaal@kali)-[~]
$ sudo umount /cyse
```

8.

```
(adrianvaal@kali)-[~]
$ ls /cyse
```