

Part 1:

Step 1:

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

Step 2:

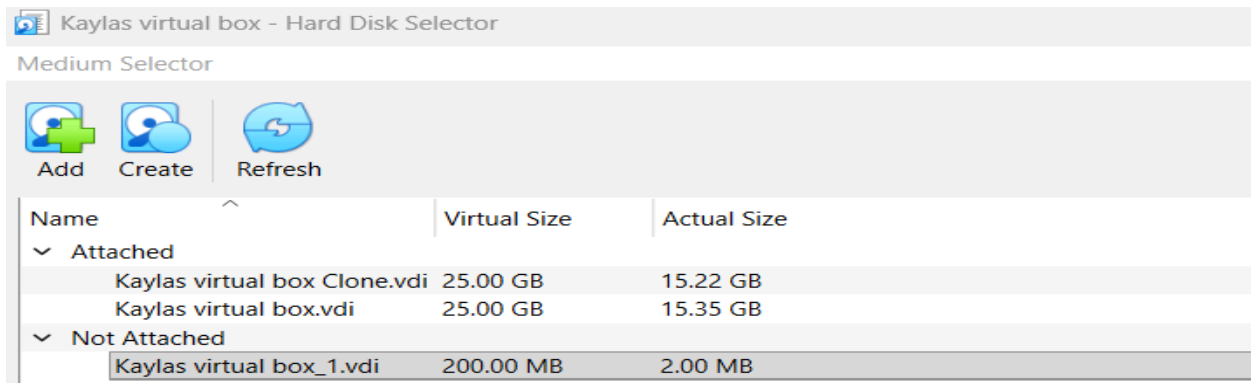
```
(kayla@jarvis)-[~]  
$ sudo fdisk -l  
Disk /dev/sda: 25 GiB, 26843545600 bytes, 52428800 sectors  
Disk model: VBOX HARDDISK  
Units: sectors of 1 * 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 512 bytes  
I/O size (minimum/optimal): 512 bytes / 512 bytes  
Disklabel type: dos  
Disk identifier: 0x0f77c8c9  
  
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  
(kayla@jarvis)-[~]  
$
```

Step 3:

```
(kayla@jarvis)-[~]  
$ 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:

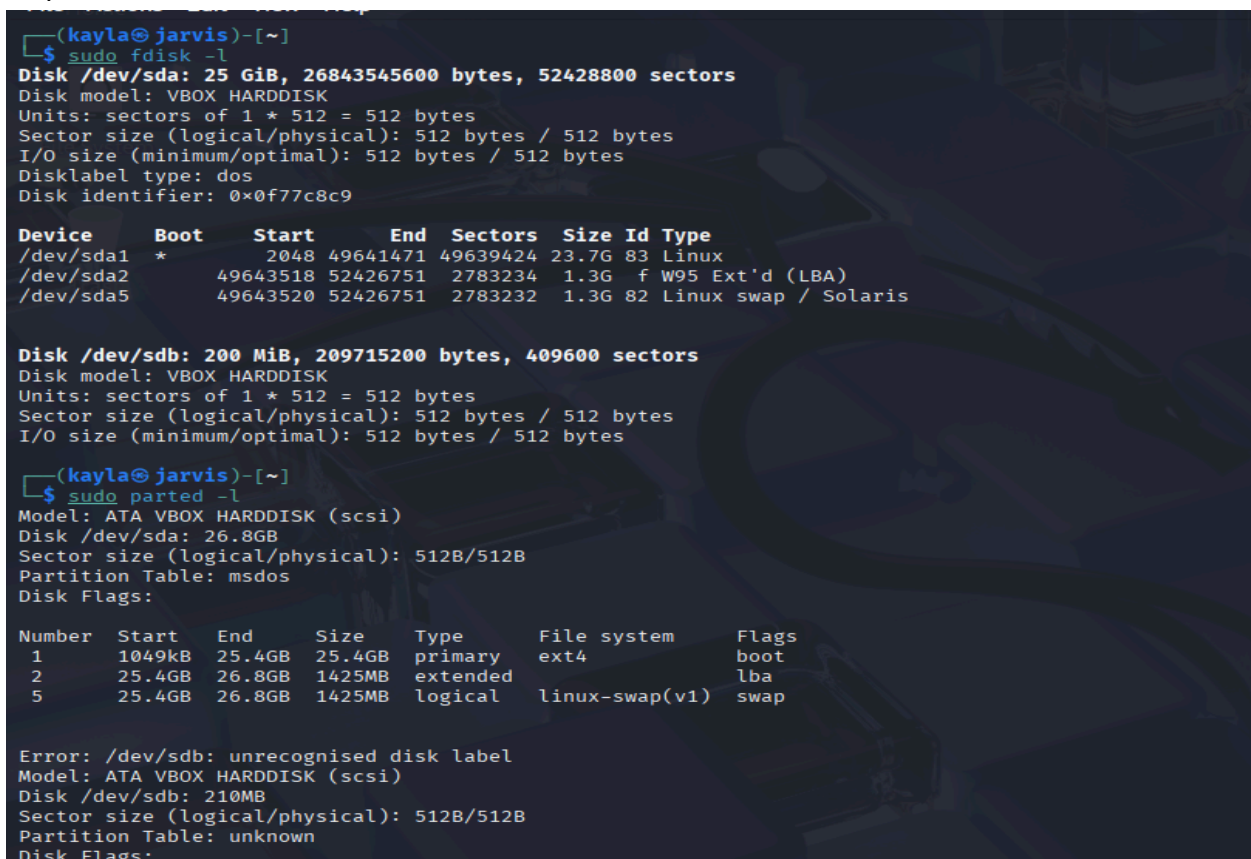
Step 1:



Step 2:



Step 3:



### Part 3:

#### Step 1:

```
(kayla@jarvis)-[~]
└─$ 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 0xd54fbd90.

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):
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.
```

#### Step 2:

```
(kayla@jarvis)-[~]
└─$ sudo mkfs.ext4 /dev/sdb1
mke2fs 1.47.2 (1-Jan-2025)
Creating filesystem with 203776 1k blocks and 51000 inodes
Filesystem UUID: 15570f30-4114-473c-ae29-c7799d05e39a
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
```

#### Step 3:

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

(kayla@jarvis)-[~]
└─$ 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: 0x0f77c8c9

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: 0xd54fbd90

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

(kayla@jarvis)-[~]
└─$ 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)
```

Step 4:

```
(kayla@jarvis)-[~]
└─$ sudo mkdir /cyse

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

(kayla@jarvis)-[~]
└─$
```

Step 5:

```
(kayla@jarvis)-[~]
└─$ df -h
Filesystem      Size  Used Avail Use% Mounted on
udev            5.1G   0    5.1G   0% /dev
tmpfs           1.1G 1008K 1.1G   1% /run
/dev/sda1       24G   15G   7.5G  67% /
tmpfs           5.1G   4.0K 5.1G   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           5.1G  124K 5.1G   1% /tmp
tmpfs           1.0M   0    1.0M   0% /run/credentials/getty@tty1.service
tmpfs           1.1G  116K 1.1G   1% /run/user/1000
/dev/sdb1       181M   63K  167M   1% /cyse

(kayla@jarvis)-[~]
```

Step 6:

```
(kayla@jarvis)-[~]
└─$ echo "kayla" | sudo tee /cyse/mthom062.txt
kayla

(kayla@jarvis)-[~]
└─$
```

Step 7:

```
(kayla@jarvis)-[~]
└─$ sudo umount /cyse

(kayla@jarvis)-[~]
└─$
```

Step 8:

```
(kayla@jarvis)-[~]
└─$ ls /cyse

(kayla@jarvis)-[~]
└─$
```