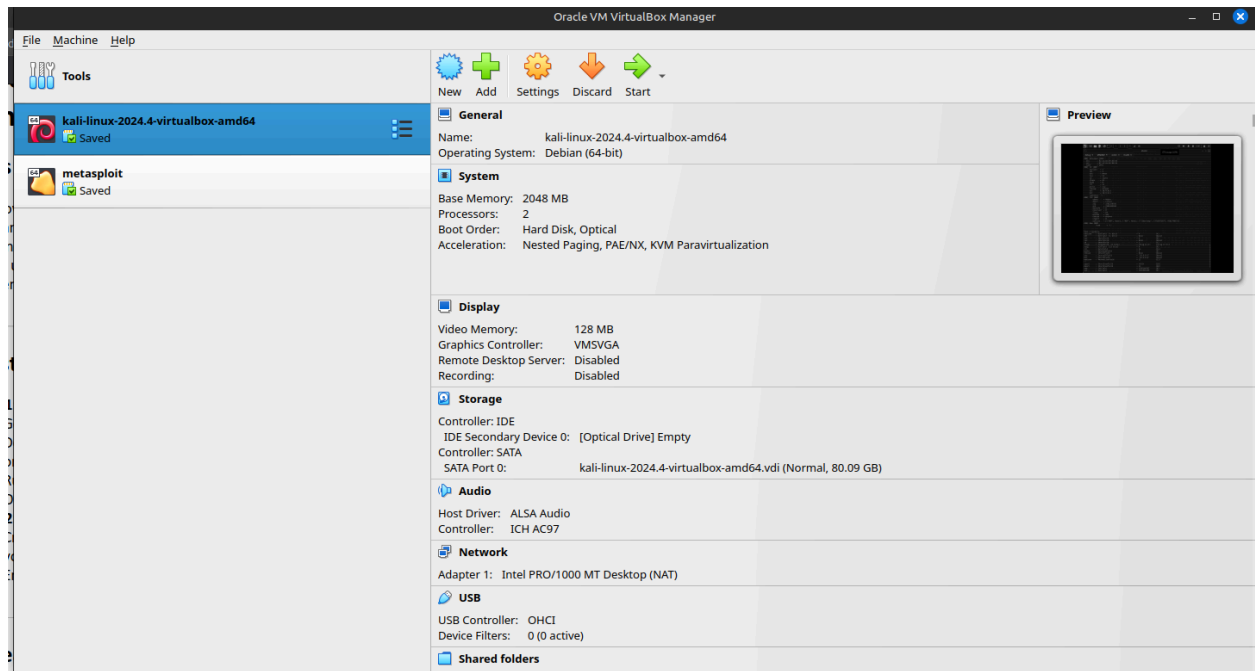


## Part A



## Part B

```
costhm@costhm-IdeaPad-5-15IIL05:~$ uname -a
Linux costhm-IdeaPad-5-15IIL05 6.8.0-79-generic #79-Ubuntu SMP PREEMPT_DYNAMIC Tue Aug 12 14:42:46 UTC 2025 x86_64 x86_64 x86_64 GNU/Linux
```

## Part C

```
(kali@Costhm)-[~]
$ pwd
/home/kali
```

Print Working directory

```
(kali@Costhm)-[~]
$ ls
a1          ca.key      demoCA      Downloads   md5collgen  openssl.cnf  proxy.csr   rsa         test.txt
an          ciphertxt.txt Desktop     hashcat.doc  Music       Pictures     proxy.key   rsa.c       Videos
ca.crt      decrypted.txt Documents    LabSetup-TLS office2john.py proxy.crt   Public      Templates
```

List Directories and Files in current working directory

```
(kali@Costhm)-[~]  
$ cd /  
  
(kali@Costhm)-[/]
```

Change to root directory

```
(kali@Costhm)-[~]  
$ mkdir testfolder  
  
(kali@Costhm)-[~]  
$ find testfolder  
testfolder
```

Make a directory “testfolder”, show it's there with `find`

```
(kali@Costhm)-[~]  
$ rmdir testfolder  
  
(kali@Costhm)-[~]  
$ find testfolder  
find: 'testfolder': No such file or directory
```

Remove the directory “testfolder”, show it's not there with `find`

```
(kali@Costhm)-[~]  
$ touch testfile.txt  
  
(kali@Costhm)-[~]  
$ echo "Hello Cybersecurity" > testfile.txt  
  
(kali@Costhm)-[~]  
$ cat testfile.txt  
Hello Cybersecurity
```

Create the “testfile.txt” with `touch`, insert the String into the file with `echo`, and use `cat` to show the file's content

```
(kali@Costhm)-[~]  
$ whoami  
kali  
  
(kali@Costhm)-[~]  
$ uname -a  
Linux Costhm 6.11.2-amd64 #1 SMP PREEMPT_DYNAMIC Kali 6.11.2-1kali1 (2024-10-15) x86_64 GNU/Linux
```

`whoami` to show the user, `uname -a` to print out the system information

```
(kali@Costhm)-[~]  
$ passwd  
Changing password for kali.  
Current password:  
New password:  
Retype new password:  
The password has not been changed.  
New password:  
Retype new password:  
You must choose a longer password.  
New password: █
```

`passwd` to change the password of the current user, here I am changing the password of user “kali”. As you can see if you type the same password, the password will not be changed, and I also tried to change password to ‘1234’, which by default kali rejects it as it is a weak password.

```

(kali@Costhm)-[~]
$ pwd
/home/kali

(kali@Costhm)-[~]
$ mkdir trash

(kali@Costhm)-[~]
$ cd trash

(kali@Costhm)-[~/trash]
$ cd ..

(kali@Costhm)-[~]
$ touch trash.md

(kali@Costhm)-[~]
$ mv trash.md trash

(kali@Costhm)-[~]
$ ls
a1      ciphertext.txt  Documents      md5collgen     Pictures      Public      testfile.txt
an      decrypted.txt  Downloads      Music          proxy.crt    rsa         test.txt
ca.crt  demoCA        hashcat.doc    office2john.py proxy.csr    rsa.c       trash
ca.key  Desktop      LabSetup-TLS  openssl.cnf    proxy.key    Templates  Videos

(kali@Costhm)-[~]
$ cd ./trash

(kali@Costhm)-[~/trash]
$ ls
trash.md

(kali@Costhm)-[~/trash]
$

```

```

(kali@Costhm)-[~/trash]
$ vim trash.md

(kali@Costhm)-[~/trash]
$ cat trash.md
Hi there I am bad at Linux

(kali@Costhm)-[~/trash]
$ cp trash.md trash2.md

(kali@Costhm)-[~/trash]
$ ls
trash2.md  trash.md

(kali@Costhm)-[~/trash]
$

```

- Step 1: Make a new directory
- Step 2: Make a new file
- Step 3: move the file into the new directory
- Step 4: use vim as a text editor to add a line of content
- Step 5: use cat to print out the content from the file
- Step 6: Copy [trash.md](#) file to a new file [trash2.md](#) file

```
(kali@Costhm)-[~/trash]
$ who

(kali@Costhm)-[~/trash]
$ w
13:03:12 up 3:25, 2 users, load average: 0.14, 0.18, 0.18
USER      TTY      FROM          LOGIN@   IDLE   JCPU   PCPU WHAT
kali      -        -             28Mar25 160days 0.00s  0.02s lightdm --session-child 13 24
kali      -        -             28Mar25 160days 0.00s  0.32s /usr/lib/systemd/systemd --user

(kali@Costhm)-[~/trash]
$ last -3 kali
/var/lib/wtmpdb/wtmp.db has no entries

(kali@Costhm)-[~/trash]
$
```

Step 1: use `who` to check who else is logged in, in my case only sudoer (kali) is logged in and does not show any result

Step 2: use `w` to see what program each user is running

Step 3: use “last” to check last 3 login time for user kali

# Part D

```
(kali@Costhm)-[~]
$ pwd
/home/kali

(kali@Costhm)-[~]
$ ls
a1      ca.key      demoCA      Downloads  md5collgen  openssl.cnf  proxy.csr  rsa      test.txt
an      ciphertext.txt Desktop     hashcat.doc Music       Pictures     proxy.key  rsa.c    Videos
ca.crt  decrypted.txt Documents    LabSetup-TLS office2john.py proxy.crt  Public    Templates

(kali@Costhm)-[~]
$ cd /

(kali@Costhm)-[/]
$ mkdir testfolder
mkdir: cannot create directory 'testfolder': Permission denied

(kali@Costhm)-[/]
$ cd ~

(kali@Costhm)-[~]
$ mkdir testfolder

(kali@Costhm)-[~]
$ find testfolder
testfolder

(kali@Costhm)-[~]
$ rmdir testfolder

(kali@Costhm)-[~]
$ find testfolder
find: 'testfolder': No such file or directory

(kali@Costhm)-[~]
$ touch testfile.txt

(kali@Costhm)-[~]
$ echo "Hello Cybersecurity" > testfile.txt

(kali@Costhm)-[~]
$ cat testfile.txt
Hello Cybersecurity

(kali@Costhm)-[~]
$ whoami
kali

(kali@Costhm)-[~]
$ uname -a
Linux Costhm 6.11.2-amd64 #1 SMP PREEMPT_DYNAMIC Kali 6.11.2-1kali1 (2024-10-15) x86_64 GNU/Linux
```