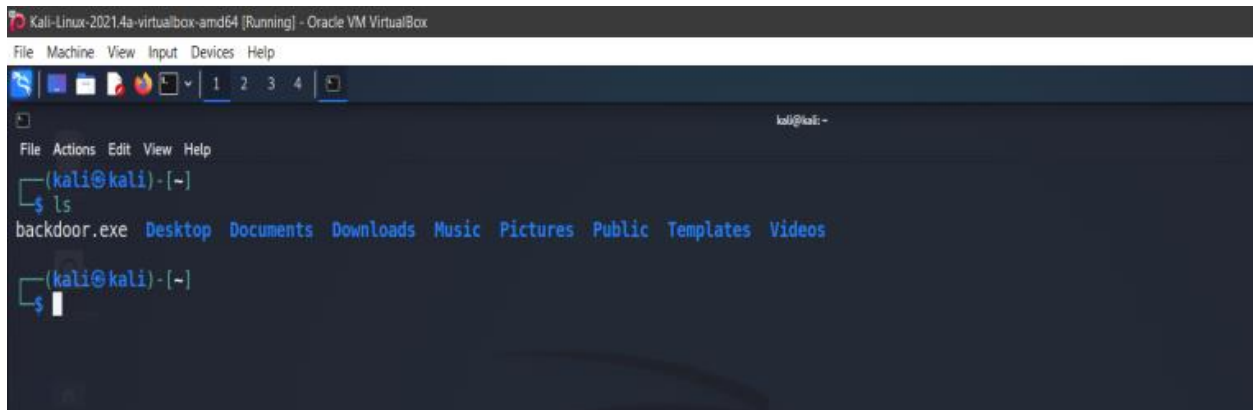


NAME – CHETAN SHARMA
REG NO – 20BCE0744

CYBER SECURITY AND ETHICAL HACKING ASSESSMENT 1

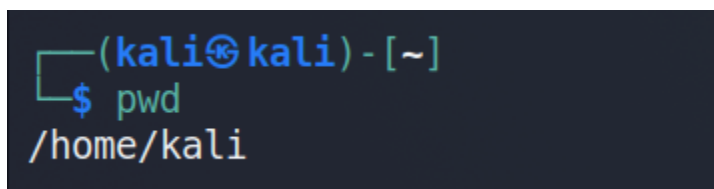
ls

A screenshot of a Kali Linux terminal window. The title bar reads "Kali Linux-2021.4a-virtualbox-amd64 [Running] - Oracle VM VirtualBox". The menu bar includes "File", "Machine", "View", "Input", "Devices", and "Help". The terminal shows the prompt "(kali@kali) - [~]" and the command "ls" has been entered. The output lists files and directories: "backdoor.exe", "Desktop", "Documents", "Downloads", "Music", "Pictures", "Public", "Templates", and "Videos". The prompt "(kali@kali) - [~]" is shown again with a cursor ready for input.

cd

A screenshot of a Kali Linux terminal window. The title bar is partially visible. The menu bar includes "File", "Actions", "Edit", "View", and "Help". The terminal shows the prompt "(kali@kali) - [~]" and the command "cd Desktop" has been entered. The prompt "(kali@kali) - [~]" is shown again with a cursor ready for input.

pwd

A screenshot of a Kali Linux terminal window. The title bar is partially visible. The menu bar includes "File", "Actions", "Edit", "View", and "Help". The terminal shows the prompt "(kali@kali) - [~]" and the command "pwd" has been entered. The output is "/home/kali". The prompt "(kali@kali) - [~]" is shown again with a cursor ready for input.

mkdir

```
(kali㉿kali) - [~/Desktop]
$ mkdir assessment_1
hydra1.txt
```

touch

```
(kali㉿kali) - [~/Desktop/assessment_1]
$ touch new.txt

(kali㉿kali) - [~/Desktop/assessment_1]
$ ls
new.txt  smartbridge.txt
```

cp

```
(kali㉿kali) - [~/Desktop]
$ ls
assessment_1  hydra1.txt  hydra.txt  new  password.txt

(kali㉿kali) - [~/Desktop]
$ ls new

(kali㉿kali) - [~/Desktop]
$ cp hydra1.txt hydra.txt new

(kali㉿kali) - [~/Desktop]
$ ls new
hydra1.txt  hydra.txt
```

mv

```
(kali㉿kali) - [~]
$ cd Desktop

(kali㉿kali) - [~/Desktop]
$ mv hydra1.txt /home
mv: cannot move 'hydra1.txt' to '/home/hydra1.txt': Permission denied

(kali㉿kali) - [~/Desktop]
$ sudo mv hydra1.txt /home

(kali㉿kali) - [~/Desktop]
$ ls
assessment_1  new  password.txt
```


head

```
(kali@kali)-[~/Desktop]
$ head name
Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, men book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum
Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, men book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum
Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, men book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum
```

tail

```
(kali@kali)-[~/Desktop]
$ tail name
Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, men book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum
Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, men book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum
Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, men book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum
```

nano

```
(kali@kali)-[~/Desktop]
$ nano smartbridge.txt
```

ps

```
(kali@kali)-[~]
$ ps
  PID TTY          TIME CMD
 1187 pts/0        00:00:00 zsh
 1540 pts/0        00:00:00 ps
```

top

```
top - 03:47:57 up 4 min, 1 user, load average: 0.36, 0.20, 0.09
Tasks: 155 total, 1 running, 154 sleeping, 0 stopped, 0 zombie
Cpu(s): 0.5 us, 0.7 sy, 0.0 ni, 98.5 id, 0.2 wa, 0.0 hi, 0.2 si, 0.0 st
Mem Mem : 1982.0 total, 1082.8 free, 450.7 used, 400.5 buff/cache
Mem Swap: 975.0 total, 975.0 free, 0.0 used, 1336.1 avail Mem

  PID USER      PR  NI  VIRT  RES  SHR  S  CPU  MEM     TIME+  COMMAND
 542 root        20   0 163432 110688 50680 S   0.7  5.0   0:02.06 Xorg
 862 kali      20   0 152804   2960   2380 S   0.2  0.1   0:00:26 VncXclnt
 935 kali      20   0 207108 24464 17400 S   0.2  1.2   0:00:05 panel-13-cpugra
 937 kali      20   0 359088 27204 10844 S   0.2  1.3   0:00:55 panel-13-gemmon
2317 kali      20   0 404868 87444 70100 S   0.3  4.3   0:00:13 qterminal
   1 root        20   0 164436 10544  7784 S   0.0  0.5   0:00:50 systemd
   2 root        20   0 0         0     0 S   0.0  0.0   0:00:00 kthreadd
   3 root        0 -20  0         0     0 I   0.0  0.0   0:00:00 rcu_gp
   4 root        0 -20  0         0     0 I   0.0  0.0   0:00:00 rcu_par_gp
   5 root        20   0 0         0     0 I   0.0  0.0   0:00:00 kworker/0:0-ata_sff
   6 root        0 -20  0         0     0 I   0.0  0.0   0:00:00 kworker/0:0H-events_highpri
   7 root        20   0 0         0     0 I   0.0  0.0   0:00:03 kworker/0:1-events
   8 root        20   0 0         0     0 I   0.0  0.0   0:00:00 kworker/u:0-flush-0:0
   9 root        0 -20  0         0     0 I   0.0  0.0   0:00:00 mm_percpu_wq
  10 root        20   0 0         0     0 S   0.0  0.0   0:00:00 rcu_tasks_rude
  11 root        20   0 0         0     0 S   0.0  0.0   0:00:00 rcu_tasks_trace
  12 root        20   0 0         0     0 S   0.0  0.0   0:00:02 ksoftirqd/0
  13 root        20   0 0         0     0 I   0.0  0.0   0:00:00 rcu_sched
  14 root        20   0 0         0     0 S   0.0  0.0   0:00:00 migration/0
  15 root        20   0 0         0     0 S   0.0  0.0   0:00:00 cpuhp/0
  16 root        20   0 0         0     0 S   0.0  0.0   0:00:00 cpuhp/1
  17 root        20   0 0         0     0 S   0.0  0.0   0:00:11 migration/1
  18 root        20   0 0         0     0 S   0.0  0.0   0:00:01 ksoftirqd/1
  19 root        20   0 0         0     0 I   0.0  0.0   0:00:00 kworker/1:0-events
  20 root        0 -20  0         0     0 I   0.0  0.0   0:00:00 kworker/1:0H-events_highpri
  22 root        20   0 0         0     0 I   0.0  0.0   0:00:00 kworker/u:1-events_unbound
  23 root        20   0 0         0     0 S   0.0  0.0   0:00:00 kdevtmpfs
  24 root        0 -20  0         0     0 I   0.0  0.0   0:00:00 netns
  25 root        0 -20  0         0     0 I   0.0  0.0   0:00:00 inet_frag_wq
  26 root        20   0 0         0     0 S   0.0  0.0   0:00:00 kauditd
  27 root        20   0 0         0     0 S   0.0  0.0   0:00:00 khungtaskd
  28 root        20   0 0         0     0 S   0.0  0.0   0:00:00 oom_reaper
  29 root        0 -20  0         0     0 I   0.0  0.0   0:00:00 writeback
  30 root        20   0 0         0     0 S   0.0  0.0   0:00:00 kcompabd
  31 root        25   0 0         0     0 S   0.0  0.0   0:00:00 ksmd
  32 root        39 19  0         0     0 S   0.0  0.0   0:00:05 khugepaged
  34 root        20   0 0         0     0 I   0.0  0.0   0:00:02 kworker/1:1-ata_sff
  52 root        0 -20  0         0     0 I   0.0  0.0   0:00:00 kintegrityd
  53 root        0 -20  0         0     0 I   0.0  0.0   0:00:00 kblockd
  54 root        0 -20  0         0     0 I   0.0  0.0   0:00:00 blkcg_punt_bio
  55 root        0 -20  0         0     0 I   0.0  0.0   0:00:00 tpm_dev_wq
  56 root        0 -20  0         0     0 I   0.0  0.0   0:00:00 efac-poller
  57 root        0 -20  0         0     0 I   0.0  0.0   0:00:00 devfreq_wq
  58 root        0 -20  0         0     0 I   0.0  0.0   0:00:04 kworker/0:1H-kblockd
  59 root        20   0 0         0     0 S   0.0  0.0   0:00:00 kswapd0
```

kill

```
(kali㉿kali)-[~]
$ ps
  PID TTY          TIME CMD
 2320 pts/0        00:00:00 zsh
 3204 pts/0        00:00:00 ps

(kali㉿kali)-[~]
$ kill 2320
```

bg

```
(kali㉿kali)-[~]
$ jobs

(kali㉿kali)-[~]
$ sleep 500
^Z
zsh: suspended  sleep 500

(kali㉿kali)-[~]
$ jobs
[1]  + suspended  sleep 500

(kali㉿kali)-[~]
$ bg %1
[1]  + continued  sleep 500

(kali㉿kali)-[~]
$ jobs
[1]  + running    sleep 500
```

fg

```
(kali㉿kali)-[~]
$ fg %1
[1]  + running    sleep 500
█
```

uname

```
(kali㉿kali)-[~]
$ uname
Linux
```

df

```
(kali㉿kali)-[~]
$ df
Filesystem            1K-blocks      Used Available Use% Mounted on
udev                  972456         0    972456   0% /dev
tmpfs                 202952        932    202020   1% /run
/dev/sda1             81000912 10012844  66827456  14% /
tmpfs                1014760       23992    990768   3% /dev/shm
tmpfs                 5120          0        5120   0% /run/lock
tmpfs                 202952        64    202888   1% /run/user/1000
```

free

```
(kali㉿kali)-[~]
$ free
              total        used        free      shared  buff/cache   available
Mem:          2029520      801564      591916        41172       636040      1034744
Swap:          998396           0      998396
```

uptime

```
(kali㉿kali)-[~]
$ uptime
04:08:59 up 25 min,  1 user,  load average: 0.19, 0.22, 0.18
```

who

```
(kali㉿kali)-[~]
$ who
kali    tty7      2023-05-21 03:43 (:0)
```

w

```
(kali㉿kali)-[~]
$ w
04:11:15 up 28 min,  1 user,  load average: 0.21, 0.21, 0.18
USER      TTY      FROM          LOGIN@   IDLE   JCPU   PCPU WHAT
kali      tty7      :0            03:43    28:12  6.67s  0.15s xfce4-session
```


ifconfig

```
(kali㉿kali)-[~]
$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
    inet6 fe80::a00:27ff:fe50:4c14 prefixlen 64 scopeid 0<link>
    ether 08:00:27:50:4c:14 txqueuelen 1000 (Ethernet)
    RX packets 12540 bytes 16556241 (15.7 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 7419 bytes 522246 (510.0 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 8 bytes 400 (400.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 8 bytes 400 (400.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

ping

```
(kali㉿kali)-[~]
$ ping 10.0.2.15
PING 10.0.2.15 (10.0.2.15) 56(84) bytes of data.
 64 bytes from 10.0.2.15: icmp_seq=1 ttl=64 time=0.014 ms
 64 bytes from 10.0.2.15: icmp_seq=2 ttl=64 time=0.024 ms
 64 bytes from 10.0.2.15: icmp_seq=3 ttl=64 time=0.086 ms
 64 bytes from 10.0.2.15: icmp_seq=4 ttl=64 time=0.024 ms
 64 bytes from 10.0.2.15: icmp_seq=5 ttl=64 time=0.025 ms
 64 bytes from 10.0.2.15: icmp_seq=6 ttl=64 time=0.023 ms
 64 bytes from 10.0.2.15: icmp_seq=7 ttl=64 time=0.024 ms
 64 bytes from 10.0.2.15: icmp_seq=8 ttl=64 time=0.024 ms
 64 bytes from 10.0.2.15: icmp_seq=9 ttl=64 time=0.026 ms
 64 bytes from 10.0.2.15: icmp_seq=10 ttl=64 time=0.060 ms
 64 bytes from 10.0.2.15: icmp_seq=11 ttl=64 time=0.062 ms
^C
--- 10.0.2.15 ping statistics ---
11 packets transmitted, 11 received, 0% packet loss, time 10278ms
rtt min/avg/max/mdev = 0.014/0.035/0.086/0.021 ms
```

wget

```
(kali㉿kali)-[~]
$ wget https://www.checkpoint.com/cyber-hub/cyber-security/what-is-cybersecurity/
--2023-05-21 04:29:21-- https://www.checkpoint.com/cyber-hub/cyber-security/what-is-cybersecurity/
Resolving www.checkpoint.com (www.checkpoint.com)... 108.159.15.35, 108.159.15.58, 108.159.15.101, ...
Connecting to www.checkpoint.com (www.checkpoint.com)|108.159.15.35|:443... connected.
HTTP request sent, awaiting response... 202 Accepted
Length: 0 [text/html]
Saving to: 'index.html'

index.html                                     [ ↔ ]
2023-05-21 04:29:21 (0.00 B/s) - 'index.html' saved [0/0]
```

sudo

```
(kali㉿kali)-[~]
└─$ sudo apt update
[sudo] password for kali:
Hit:1 http://kali.download/kali kali-last-snapshot InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
1902 packages can be upgraded. Run 'apt list --upgradable' to see them.
```

apt-get

```
(kali㉿kali)-[~]
└─$ sudo apt-get upgrade
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
The following packages were automatically installed and are no longer required:
  dctrl-tools dh-dkms dleyna-server gir1.2-javascriptcoregtk-4.0 gir1.2-soup-2.4 gir1.2-webkit2-4.0
  libdleydna-connector-dbus-1.0-1 libdleydna-core-1.0-5 libhttp-server-simple-perl libnginx-mod-http-geoip
  libnginx-mod-http-image-filter libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream
  libnginx-mod-stream-geoip libsoup-gnome2.4-1 libwacom-bin libwebkit2gtk-4.0-37 nginx-common nginx-core
  python3-dataclasses-json python3-limiter python3-marshmallow-enum python3-mypy-extensions
  python3-responses python3-spyse python3-token-bucket python3-typing-inspect sphinx-rtd-theme-common
Use 'sudo apt autoremove' to remove them.
```

systemctl

```
(kali㉿kali)-[~]
└─$ systemctl
UNIT
proc-sys-fs-binfmt_misc.automount
sys-devices-pci0000:00-0000:00:01.1-ata2-host1-target1:0:0-1:0:0:0-block-sr0.
sys-devices-pci0000:00-0000:00:03.0-net-eth0.device
sys-devices-pci0000:00-0000:00:05.0-sound-card0-controlC0.device
sys-devices-pci0000:00-0000:00:0d.0-ata3-host2-target2:0:0-2:0:0:0-block-sda.
sys-devices-pci0000:00-0000:00:0d.0-ata3-host2-target2:0:0-2:0:0:0-block-sda.
sys-devices-pci0000:00-0000:00:0d.0-ata3-host2-target2:0:0-2:0:0:0-block-sda.
sys-devices-pci0000:00-0000:00:0d.0-ata3-host2-target2:0:0-2:0:0:0-block-sda.
sys-devices-platform-serial8250-tty-ttyS0.device
sys-devices-platform-serial8250-tty-ttyS1.device
sys-devices-platform-serial8250-tty-ttyS2.device
sys-devices-platform-serial8250-tty-ttyS3.device
sys-devices-virtual-misc-rfkill.device
sys-module-configfs.device
sys-module-fuse.device
sys-subsystem-net-devices-eth0.device
-.mount
dev-hugepages.mount
dev-mqueue.mount
proc-sys-fs-binfmt_misc.mount
run-credentials-systemd\x2dsysctl.service.mount
run-credentials-systemd\x2dsysusers.service.mount
lines 1-23...skipping...
```


crontab

```
(kali㉿kali)-[~]
└─$ crontab -e
no crontab for kali - using an empty one

Select an editor. To change later, run 'select-editor'.
 1. /bin/nano      <---- easiest
 2. /usr/bin/vim.basic
 3. /usr/bin/vim.tiny

Choose 1-3 [1]: /bin/nano
Choose 1-3 [1]: 1
No modification made
```

```
# To define the time you can provide concrete values for
# minute (m), hour (h), day of month (dom), month (mon),
# and day of week (dow) or use '*' in these fields (for 'any').
#
# Notice that tasks will be started based on the cron's system
# daemon's notion of time and timezones.
#
# Output of the crontab jobs (including errors) is sent through
# email to the user the crontab file belongs to (unless redirected).
#
# For example, you can run a backup of all your user accounts
# at 5 a.m every week with:
# 0 5 * * 1 tar -zcf /var/backups/home.tgz /home/
#
# For more information see the manual pages of crontab(5) and cron(8)
#
# m h  dom mon dow   command
```

useradd

```
(kali㉿kali)-[~]
└─$ sudo useradd newuser
[sudo] password for kali:
```

passwd

```
(kali㉿kali)-[~]  
$ sudo passwd newuser  
New password:  
Retype new password:  
passwd: password updated successfully
```