

KALI LINUX COMMAND LIST ASSIGNMENT

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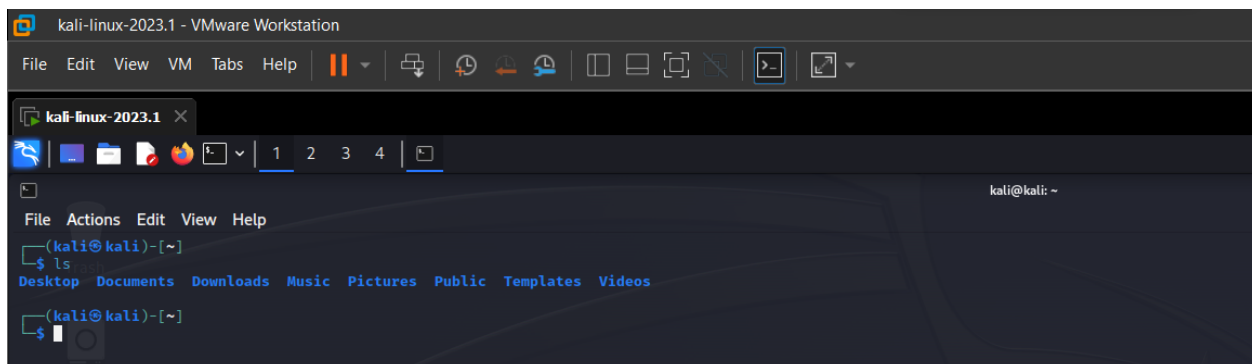
Instructions: -

The following assessment aims to test your understanding and practical knowledge of various Linux commands. Perform the tasks given below using the appropriate commands. Write down the command(s) used to complete each task. You can use any Linux distribution or command-line interface of your choice. Ensure that you provide the correct output or results for each task.

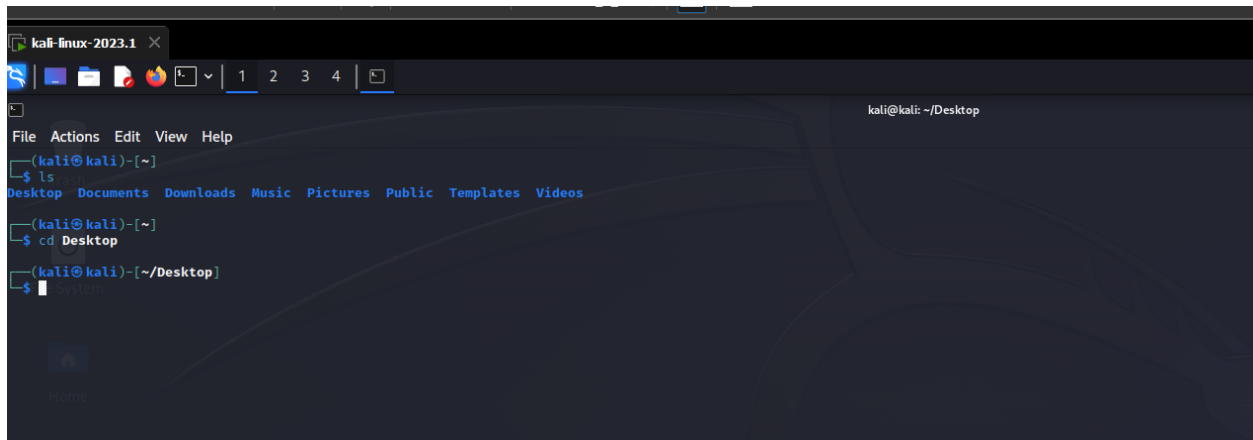
Note: It is recommended to perform this assessment on a Linux machine or virtual environment.

File and Directory Operations:

ls: List files and directories



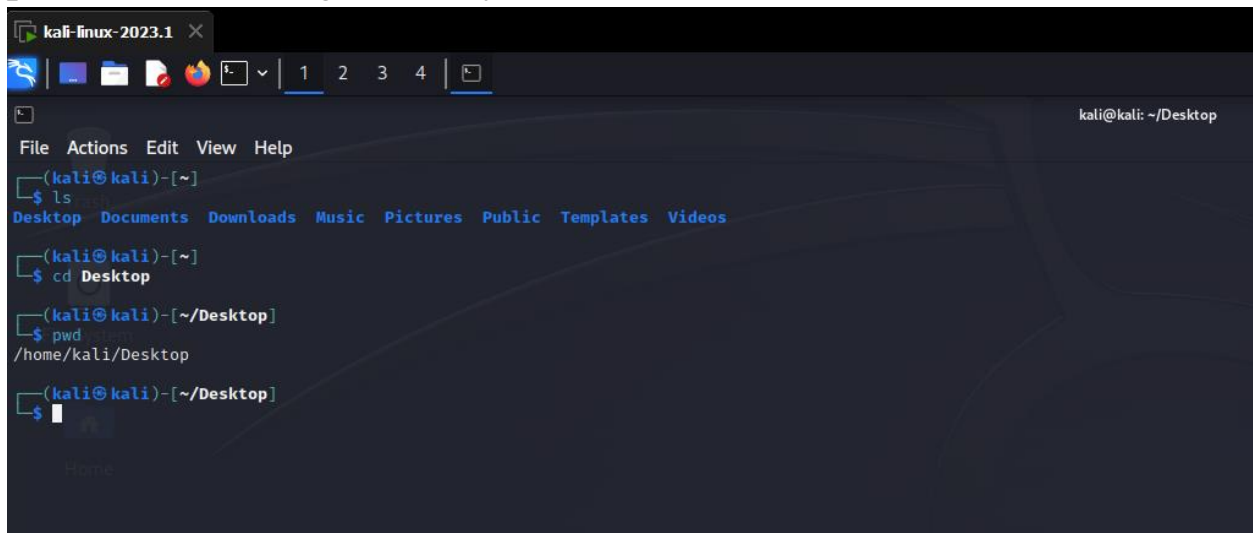
cd: Change directory



A terminal window titled 'kali-linux-2023.1' with a dark background and light blue text. The prompt is '(kali@kali)-[~]'. The user enters 'ls', showing a directory listing with 'Desktop' highlighted. Then, the user enters 'cd Desktop', and the prompt changes to '(kali@kali)-[~/Desktop]'. The user then enters '\$', and the prompt changes to '(kali@kali)-[~/Desktop] \$'. The terminal has a menu bar with 'File', 'Actions', 'Edit', 'View', and 'Help'. The top right corner shows 'kali@kali: ~/Desktop'.

```
(kali@kali)-[~]  
$ ls  
Desktop Documents Downloads Music Pictures Public Templates Videos  
(kali@kali)-[~]  
$ cd Desktop  
(kali@kali)-[~/Desktop]  
$
```

pwd: Print working directory



A terminal window titled 'kali-linux-2023.1' with a dark background and light blue text. The prompt is '(kali@kali)-[~]'. The user enters 'ls', showing a directory listing with 'Desktop' highlighted. Then, the user enters 'cd Desktop', and the prompt changes to '(kali@kali)-[~/Desktop]'. The user then enters 'pwd', and the output is '/home/kali/Desktop'. The prompt then changes to '(kali@kali)-[~/Desktop]'. The user then enters '\$', and the prompt changes to '(kali@kali)-[~/Desktop] \$'. The terminal has a menu bar with 'File', 'Actions', 'Edit', 'View', and 'Help'. The top right corner shows 'kali@kali: ~/Desktop'.

```
(kali@kali)-[~]  
$ ls  
Desktop Documents Downloads Music Pictures Public Templates Videos  
(kali@kali)-[~]  
$ cd Desktop  
(kali@kali)-[~/Desktop]  
$ pwd  
/home/kali/Desktop  
(kali@kali)-[~/Desktop]  
$
```

mkdir: Make directory

```
(kali㉿kali)-[~]  
$ ls  
Desktop  Documents  Downloads  Music  Pictures  Public  Templates  Videos  
  
(kali㉿kali)-[~]  
$ cd Desktop  
  
(kali㉿kali)-[~/Desktop]  
$ pwd  
/home/kali/Desktop  
  
(kali㉿kali)-[~/Desktop]  
$ mkdir SriRaj  
  
(kali㉿kali)-[~/Desktop]  
$ ls  
SriRaj  
  
(kali㉿kali)-[~/Desktop]  
$
```

touch: Create an empty file

```
(kali㉿kali)-[~/Desktop]  
$ touch CEH  
  
(kali㉿kali)-[~/Desktop]  
$ ls  
CEH  SriRaj  
  
(kali㉿kali)-[~/Desktop]  
$
```

cp: Copy files and directories

```
(kali㉿kali)-[~/Desktop]  
$ cp CEH CyberCourse  
  
(kali㉿kali)-[~/Desktop]  
$ ls  
CEH  CyberCourse  SriRaj  
  
(kali㉿kali)-[~/Desktop]  
$
```

mv: Move or rename files and directories

```
(kali㉿kali)-[~/Desktop]
$ mv CyberCourse SriRaj

(kali㉿kali)-[~/Desktop]
$ ls
CEH  SriRaj

(kali㉿kali)-[~/Desktop]
$ cd SriRaj

(kali㉿kali)-[~/Desktop/SriRaj]
$ ls
CyberCourse

(kali㉿kali)-[~/Desktop/SriRaj]
$
```

rm: Remove files and directories

```
(kali㉿kali)-[~]
$ ls
Desktop  Documents  Downloads  Music  Pictures  Public  Templates  Videos

(kali㉿kali)-[~]
$ cd Desktop

(kali㉿kali)-[~/Desktop]
$ ls
CEH  File  SriRaj

(kali㉿kali)-[~/Desktop]
$ rm File

(kali㉿kali)-[~/Desktop]
$ ls
CEH  SriRaj

(kali㉿kali)-[~/Desktop]
$
```

find: Search for files and directories

```
(kali㉿kali)-[~/Desktop]
$ find SriRaj
SriRaj
SriRaj/CyberCourse

(kali㉿kali)-[~/Desktop]
$
```

File Viewing and Editing:

cat: Concatenate and display file content

```
(kali㉿kali)-[~/Desktop]
$ cat CEH
hi i am sriraj from course: Cyber Threat Intelligence & Hunting (SIEM Analyst with IBM Qradar)

(kali㉿kali)-[~/Desktop]
$
```

less: View file content with pagination

```
(kali㉿kali)-[~/Desktop]
$ less CEH

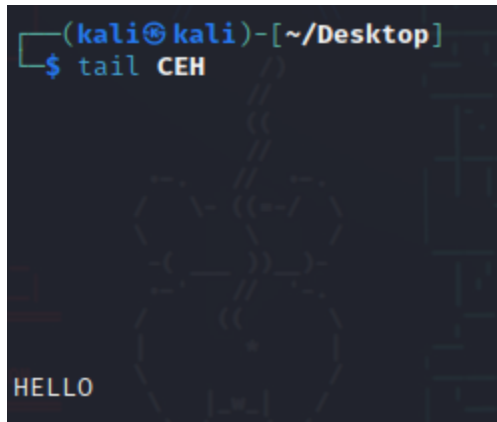
zsh: suspended  less CEH

hi i am sriraj from course: Cyber Threat Intelligence & Hunting (SIEM Analyst with IBM Qradar)
CEH (END)
```

head: Display the beginning of a file

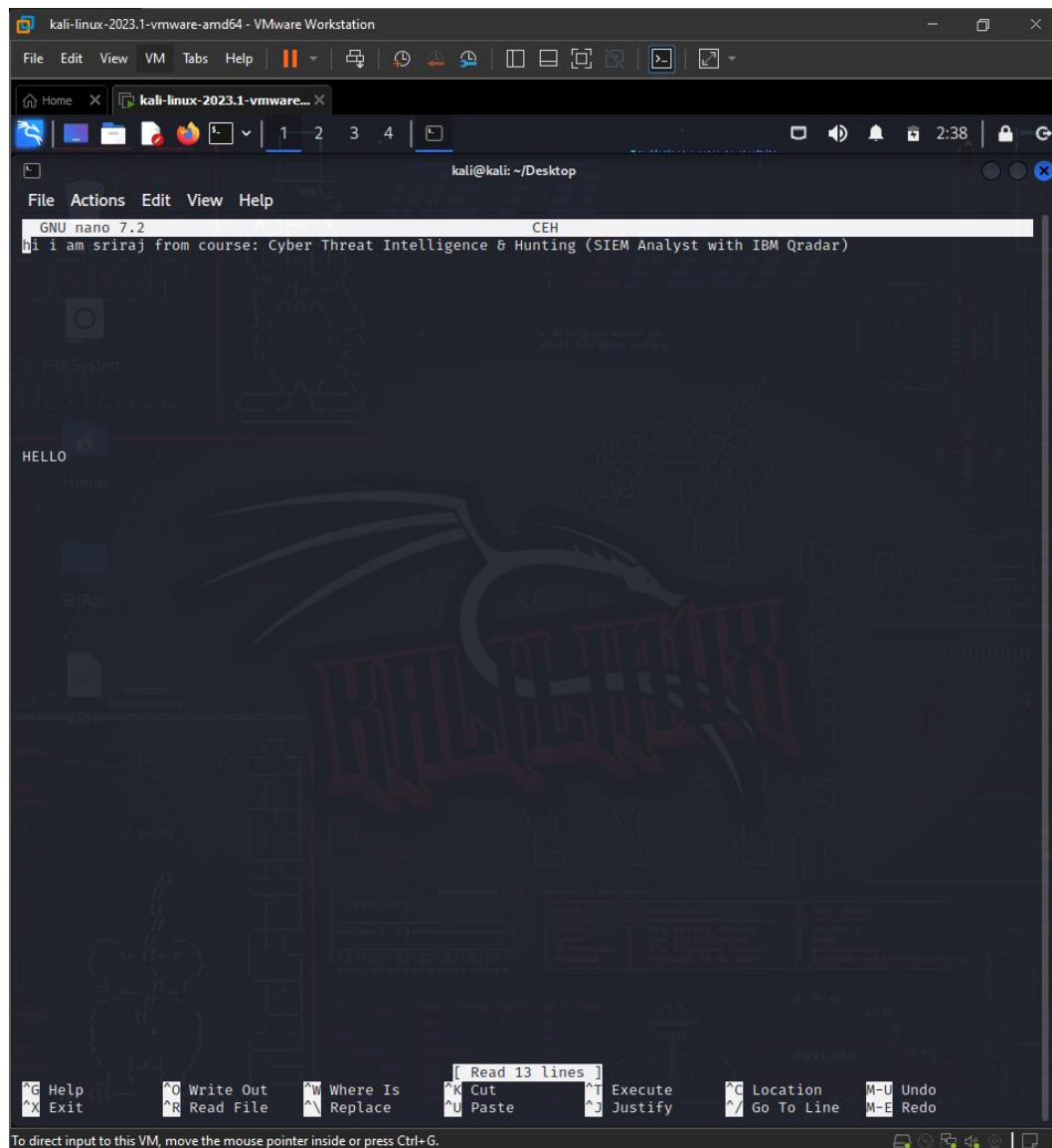
```
(kali㉿kali)-[~/Desktop]
$ head CEH
hi i am sriraj from course: Cyber Threat Intelligence & Hunting (SIEM Analyst with IBM Qradar)
```

tail: Display the end of a file

A terminal window with a dark background and a faint Kali Linux logo watermark. The prompt is `(kali㉿kali)-[~/Desktop]`. The command `$ tail CEH` has been entered. The output `HELLO` is displayed on the line below the command.

```
(kali㉿kali)-[~/Desktop]
$ tail CEH
HELLO
```

nano: Text editor for creating and editing files



vi/vim: Powerful text editor for experienced users

```
(kali㉿kali)-[~/Desktop]
$ vi CEH

zsh: suspended vi CEH
```

```
File Actions Edit View Help
i i am sriraj from course: Cyber Threat Intelligence & Hunting (SIEM Analyst with IBM Qradar)

HELLO
```

File Permissions:

chmod: Change file permissions

```
(kali㉿kali)-[~/Desktop]
$ chmod +x+r CEH
```

chown: Change file owner

```
(kali㉿kali)-[~/Desktop]
$ chown kali CEH
```

chgrp: Change file group

```
(kali㉿kali)-[~/Desktop]
$ chgrp kali CEH
```

File Compression and Archiving:

tar: Archive files


```

(kali㉿kali)-[~]
$ ls
Desktop Documents Downloads fil.tar Music Pictures Public Templates Videos

(kali㉿kali)-[~]
$ cd Desktop

(kali㉿kali)-[~/Desktop]
$ tar -cf fil.tar CEH

(kali㉿kali)-[~/Desktop]
$ ls
CEH fil.tar SriRaj

```

gzip: Compress files

```

(kali㉿kali)-[~/Desktop]
$ gzip 'fil.tar'

(kali㉿kali)-[~/Desktop]
$ ls
CEH fil.tar.gz SriRaj

(kali㉿kali)-[~/Desktop]
$

```

unzip: Extract files from a ZIP archive

```

(kali㉿kali)-[~/Desktop]
$ unzip 'dark.zip'
Archive: dark.zip
replace hackerY? [y]es, [n]o, [A]ll, [N]one, [r]ename:
error: invalid response [{ENTER}]
replace hackerY? [y]es, [n]o, [A]ll, [N]one, [r]ename: hello
error: invalid response [hello]
replace hackerY? [y]es, [n]o, [A]ll, [N]one, [r]ename: n
replace karthik/knight? [y]es, [n]o, [A]ll, [N]one, [r]ename: n

```

Process Management:

ps: List running processes

```

(kali㉿kali)-[~/Desktop]
$ ps
  PID TTY          TIME CMD
  6368 pts/0        00:00:13 zsh
 14727 pts/0        00:00:00 less
 17026 pts/0        00:00:00 vi
 40652 pts/0        00:00:00 ps

```

top: Display real-time system information and processes

```
kali@kali: ~/Desktop
top - 07:17:42 up 1:18, 2 users, load average: 0.10, 0.17, 0.13
Tasks: 156 total, 1 running, 181 sleeping, 2 stopped, 0 zombie
%Cpu(s): 25.0 us, 50.0 sy, 0.0 ni, 25.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 3886.1 total, 256.6 free, 2711.2 used, 2749.8 buff/cache
MiB Swap: 0.0 total, 0.0 free, 0.0 used, 1174.8 avail Mem

  PID USER      PR  NI  VIRT  RES  SHR  S  %CPU  %MEM    TIME+  COMMAND
 40931 kali       20   0 11592 5496 3336 R   11.8   0.1   0:00.06 top
    1 root        20   0 167944 12500 9260 S    0.0   0.3   0:03.66 systemd
    2 root        20   0 0 0 0 S    0.0   0.0   0:00.02 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        0 -20 0 0 0 I    0.0   0.0   0:00.00 slub_flushwq
    6 root        0 -20 0 0 0 I    0.0   0.0   0:00.00 netns
    8 root        0 -20 0 0 0 I    0.0   0.0   0:00.00 kworker/10H-events_highpri
   10 root        0 -20 0 0 0 I    0.0   0.0   0:00.00 mm_percpu_wq
   11 root        20   0 0 0 0 I    0.0   0.0   0:00.00 rcu_tasks_kthread
   12 root        20   0 0 0 0 I    0.0   0.0   0:00.00 rcu_tasks_rude_kthread
   13 root        20   0 0 0 0 I    0.0   0.0   0:00.00 rcu_tasks_trace_kthread
   14 root        20   0 0 0 0 S    0.0   0.0   0:00.51 ksoftirqd/0
   15 root        20   0 0 0 0 I    0.0   0.0   0:04.21 rcu_preempt
   16 root        rt   0 0 0 0 S    0.0   0.0   0:00.00 migration/0
   18 root        20   0 0 0 0 S    0.0   0.0   0:00.00 cpuhp/0
   19 root        20   0 0 0 0 S    0.0   0.0   0:00.00 cpuhp/1
   20 root        rt   0 0 0 0 S    0.0   0.0   0:01.55 migration/1
   21 root        20   0 0 0 0 S    0.0   0.0   0:01.31 ksoftirqd/1
   23 root        0 -20 0 0 0 I    0.0   0.0   0:00.00 kworker/10H-events_highpri
   26 root        20   0 0 0 0 S    0.0   0.0   0:00.01 kdevtmpfs
   27 root        0 -20 0 0 0 I    0.0   0.0   0:00.00 inet_frag_wq
   28 root        20   0 0 0 0 S    0.0   0.0   0:00.00 kauditd
   30 root        20   0 0 0 0 S    0.0   0.0   0:00.00 khungtaskd
   32 root        20   0 0 0 0 S    0.0   0.0   0:00.00 oom_reaper
   33 root        0 -20 0 0 0 I    0.0   0.0   0:00.00 writeback
   34 root        20   0 0 0 0 S    0.0   0.0   0:00.37 kcompactd0
   35 root        25   5 0 0 0 S    0.0   0.0   0:00.00 ksmd
   36 root        39  19 0 0 0 S    0.0   0.0   0:02.73 khugepaged
   37 root        0 -20 0 0 0 I    0.0   0.0   0:00.00 kintegrityd
   38 root        0 -20 0 0 0 I    0.0   0.0   0:00.00 kblockd
   39 root        0 -20 0 0 0 I    0.0   0.0   0:00.00 blkcg_punt_bio
   40 root        0 -20 0 0 0 I    0.0   0.0   0:00.00 tpm_dev_wq
   41 root        0 -20 0 0 0 I    0.0   0.0   0:00.00 edac-poller
   42 root        0 -20 0 0 0 I    0.0   0.0   0:00.00 devfreq_wq
```

kill: Terminate processes

```
(kali@kali)-[~/Desktop]
$ ps
  PID TTY          TIME CMD
 6368 pts/0    00:00:15 zsh
14727 pts/0    00:00:00 less
17026 pts/0    00:00:00 vi
59577 pts/0    00:00:00 top
59724 pts/0    00:00:00 ps

(kali@kali)-[~/Desktop]
$ kill 59577
```

bg: Run processes in the background

```
(kali@kali)-[~/Desktop]
$ bg
[3] continued top
[3] + suspended (signal) top

(kali@kali)-[~/Desktop]
$
```

fg: Bring background processes to the foreground

```
(kali㉿kali)-[~/Desktop]
$ fg
[3] continued top
```

System Information:

uname: Print system information

```
(kali㉿kali)-[~/Desktop]
$ uname
Linux
```

df: Display disk space usage

```
(kali㉿kali)-[~/Desktop]
$ df
Filesystem      1K-blocks    Used Available Use% Mounted on
udev             1941744         0   1941744   0% /dev
tmpfs             397932     1168    396764   1% /run
/dev/sr0          4076828 4076828         0 100% /run/live/medium
/dev/loop0        3505408 3505408         0 100% /run/live/rootfs/filesystem.squashfs
tmpfs            1989660 1614576    375084  82% /run/live/overlay
overlay           1989660 1614576    375084  82% /
tmpfs             1989660         0   1989660   0% /dev/shm
tmpfs              5120         0        5120   0% /run/lock
tmpfs            1989660       760   1988900   1% /tmp
tmpfs             397932       96    397836   1% /run/user/1000
```

free: Display memory usage

```
(kali㉿kali)-[~/Desktop]
$ free
              total        used        free       shared    buff/cache   available
Mem:           3979320     2781232     257384     1635256     2817028     1198088
Swap:              0           0           0
```

uptime: Show system uptime

```
(kali㉿kali)-[~/Desktop]
$ uptime
07:58:54 up 1:59, 2 users, load average: 0.10, 0.17, 0.09
```

who: Display logged-in users

```
(kali㉿kali)-[~/Desktop]
$ who
kali    tty1        2023-05-22 06:00
kali    tty7        2023-05-22 06:01 (:0)
```

w: Display logged-in users and their activities

```
(kali㉿kali)-[~/Desktop]
$ w
07:59:41 up 2:00, 2 users, load average: 0.04, 0.14, 0.08
USER      TTY      FROM          LOGIN@   IDLE   JCPU   PCPU   WHAT
kali      tty1      -             06:00    1:59m  2.39s  2.31s  -zsh
kali      tty7      :0            06:01    1:59m  1:25   0.95s  xfce4-session
```

Networking:

ifconfig: Configure network interfaces

```
(kali㉿kali)-[~/Desktop]
$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.113.128 netmask 255.255.255.0 broadcast 192.168.113.255
    inet6 fe80::1ce9:819f:70a2:90b prefixlen 64 scopeid 0x20<link>
    ether 00:0c:29:34:d3:bf txqueuelen 1000 (Ethernet)
    RX packets 972666 bytes 1462715467 (1.3 GiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 35336 bytes 2280261 (2.1 MiB)
    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 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 4 bytes 240 (240.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 4 bytes 240 (240.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

ping: Send ICMP echo requests to a network host

```
(kali㉿kali)-[~/Desktop]
$ ping 1.1.1.1
PING 1.1.1.1 (1.1.1.1) 56(84) bytes of data.
64 bytes from 1.1.1.1: icmp_seq=1 ttl=128 time=36.6 ms
64 bytes from 1.1.1.1: icmp_seq=2 ttl=128 time=36.3 ms
64 bytes from 1.1.1.1: icmp_seq=3 ttl=128 time=37.0 ms
64 bytes from 1.1.1.1: icmp_seq=4 ttl=128 time=38.8 ms
64 bytes from 1.1.1.1: icmp_seq=5 ttl=128 time=35.8 ms
64 bytes from 1.1.1.1: icmp_seq=6 ttl=128 time=36.1 ms
64 bytes from 1.1.1.1: icmp_seq=7 ttl=128 time=35.8 ms
64 bytes from 1.1.1.1: icmp_seq=8 ttl=128 time=36.1 ms
64 bytes from 1.1.1.1: icmp_seq=9 ttl=128 time=37.6 ms
64 bytes from 1.1.1.1: icmp_seq=10 ttl=128 time=44.0 ms
64 bytes from 1.1.1.1: icmp_seq=11 ttl=128 time=35.5 ms
64 bytes from 1.1.1.1: icmp_seq=12 ttl=128 time=35.5 ms
64 bytes from 1.1.1.1: icmp_seq=13 ttl=128 time=36.2 ms
64 bytes from 1.1.1.1: icmp_seq=14 ttl=128 time=36.0 ms
64 bytes from 1.1.1.1: icmp_seq=15 ttl=128 time=36.4 ms
64 bytes from 1.1.1.1: icmp_seq=16 ttl=128 time=35.7 ms
64 bytes from 1.1.1.1: icmp_seq=17 ttl=128 time=37.3 ms
64 bytes from 1.1.1.1: icmp_seq=18 ttl=128 time=48.9 ms
64 bytes from 1.1.1.1: icmp_seq=19 ttl=128 time=45.8 ms
64 bytes from 1.1.1.1: icmp_seq=20 ttl=128 time=50.5 ms
64 bytes from 1.1.1.1: icmp_seq=21 ttl=128 time=38.4 ms
64 bytes from 1.1.1.1: icmp_seq=22 ttl=128 time=39.0 ms
64 bytes from 1.1.1.1: icmp_seq=23 ttl=128 time=36.3 ms
64 bytes from 1.1.1.1: icmp_seq=24 ttl=128 time=37.1 ms
64 bytes from 1.1.1.1: icmp_seq=25 ttl=128 time=38.1 ms
64 bytes from 1.1.1.1: icmp_seq=26 ttl=128 time=37.1 ms
^C
— 1.1.1.1 ping statistics —
26 packets transmitted, 26 received, 0% packet loss, time 25033ms
rtt min/avg/max/mdev = 35.499/38.376/50.461/4.034 ms

(kali㉿kali)-[~/Desktop]
$
```

To direct input to this VM, click inside or press Ctrl+G.

ssh: Securely connect to a remote system


```
(kali@kali)-[~/Desktop]
$ sudo service ssh start

(kali@kali)-[~/Desktop]
$

Try: sudo apt install <deb name>
karna@karna-virtual-machine:~$ ssh@192.168.113.128
ssh@192.168.113.128: command not found
karna@karna-virtual-machine:~$ ssh kali@192.168.113.128
The authenticity of host '192.168.113.128 (192.168.113.128)' can't be established.
ED25519 key fingerprint is SHA256:wbBGUqwlwtD9xiaz+0paV+4XClsUd6yzD0XP/p5VrNA.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.113.128' (ED25519) to the list of known hosts.
kali@192.168.113.128's password:
Linux kali 6.1.0-kali5-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.1.12-1kali2 (2023-02-23) x86_64

The programs included with the Kali GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Kali GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
(kali@kali)-[~]
$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos

(kali@kali)-[~]
$ cd Desktop

(kali@kali)-[~/Desktop]
$ ls
dark.zip fl1.tar.gz hacker hackerV

(kali@kali)-[~/Desktop]
$
```

scp: Securely copy files between systems

```
karna@karna-virtual-machine:~$ scp paper.txt kali@192.168.113.128:/~
kali@192.168.113.128's password:
paper.txt: No such file or directory
karna@karna-virtual-machine:~$ scp paper kali@192.168.113.128:/~
kali@192.168.113.128's password:
scp: /~: Permission denied
karna@karna-virtual-machine:~$
```

wget: Download files from the web

```
(kali@kali)-[~]
$ systemctl start ssh

(kali@kali)-[~]
$ wget https://vitap.ac.in/wp-content/uploads/2021/07/lab1.jpg
--2023-05-22 09:33:16-- https://vitap.ac.in/wp-content/uploads/2021/07/lab1.jpg
Resolving vitap.ac.in (vitap.ac.in)... 5.9.36.52
Connecting to vitap.ac.in (vitap.ac.in)|5.9.36.52|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 79293 (77K) [image/jpeg]
Saving to: 'lab1.jpg'

lab1.jpg
100%[=====] 77.43K 259KB/s in 0.3s

2023-05-22 09:33:17 (259 KB/s) - 'lab1.jpg' saved [79293/79293]

(kali@kali)-[~]
$ ls
Desktop Documents Downloads lab1.jpg Music Pictures Public smart Templates Videos

(kali@kali)-[~]
$
```

System Administration:

sudo: Execute commands with superuser privileges

```
(kali㉿kali)-[~]  
$ sudo su  
(root㉿kali)-[/home/kali]  
#
```

apt-get: Package management for Debian-based distributions

```
(kali㉿kali)-[~/Desktop]  
$ sudo apt-get update  
Get:1 file:/run/live/medium kali-last-snapshot InRelease  
Ign:1 file:/run/live/medium kali-last-snapshot InRelease  
Get:2 file:/run/live/medium kali-last-snapshot Release [7,354 B]  
Get:2 file:/run/live/medium kali-last-snapshot Release [7,354 B]  
Get:3 file:/run/live/medium kali-last-snapshot Release.gpg  
Ign:3 file:/run/live/medium kali-last-snapshot Release.gpg  
Get:4 http://kali.download/kali kali-rolling InRelease [41.2 kB]  
Get:5 http://kali.download/kali kali-rolling/non-free Sources [130 kB]  
Get:6 http://kali.download/kali kali-rolling/main Sources [15.6 MB]  
Get:7 http://kali.download/kali kali-rolling/main amd64 Packages [19.3 MB]  
48% [6 Sources store 0 B] [7 Packages 13.6 MB/19.3 MB 71%]
```

yum: Package management for Red Hat-based distributions

systemctl: Manage system services

```
(kali@kali)~[~/Desktop]
$ systemctl status
kali
State: running
Units: 271 loaded (incl. loaded aliases)
Jobs: 0 queued
Failed: 0 units
Since: Mon 2023-05-22 05:59:33 UTC; 2h 26min ago
systemd: 252.5-2
CGroup: /
├─init.scope
│   └─1 /sbin/init components splash noeject
├─system.slice
│   ├─ModemManager.service
│   │   └─1774 /usr/sbin/ModemManager
│   ├─NetworkManager.service
│   │   └─1762 /usr/sbin/NetworkManager --no-daemon
│   ├─colord.service
│   │   └─2210 /usr/libexec/colord
│   ├─cron.service
│   │   └─1753 /usr/sbin/cron -f
│   ├─dbus.service
│   │   └─1754 /usr/bin/dbus-daemon --system --address=systemd: --nofork --nopidfile --systemd-activation --syslog-only
│   ├─haveged.service
│   │   └─550 /usr/sbin/haveged --Foreground --verbose=1
│   ├─lightdm.service
│   │   └─1785 /usr/sbin/lightdm
│   │       └─1801 /usr/lib/xorg/Xorg :0 -seat seat0 -auth /var/run/lightdm/root/:0 -nolisten tcp vt7 -novtswitch
│   ├─open-vm-tools.service
│   │   └─557 /usr/bin/vmtoolsd
│   ├─polkit.service
│   │   └─1757 /usr/lib/polkit-1/polkitd --no-debug
│   ├─rtkit-daemon.service
│   │   └─1907 /usr/libexec/rtkit-daemon
│   ├─run-vmblock\x2dfuse.mount
│   │   └─511 vmware-vmblock-fuse /run/vmblock-fuse -o rw,subtype=vmware-vmblock,default_permissions,allow_other,dev,suid
│   ├─ssh.service
│   │   └─71455 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"
│   ├─systemd-journald.service
│   │   └─492 /lib/systemd/systemd-journald
│   └─systemd-logind.service
```

crontab: Schedule recurring tasks


```
(kali㉿kali)-[~/smart]
$ 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]: 1
No modification made
```

```
kali@kali: ~/smart x  kali@kali: ~ x
GNU nano 7.2 /tmp/cro
q# Edit this file to introduce tasks to be run by cron.
#
# Each task to run has to be defined through a single line
# indicating with different fields when the task will be run
# and what command to run for the task
#
# File System
#
# 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.
#
# Time zone
#
# 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: Add a new user

```
(kali㉿kali)-[~/Desktop]
$ useradd -D
GROUP=100
HOME=/home
INACTIVE=-1
EXPIRE=
SHELL=/bin/sh
SKEL=/etc/skel
CREATE_MAIL_SPOOL=no
LOG_INIT=yes
```

passwd: Change user password

```
(kali㉿kali)-[~]  
$ passwd  
Changing password for kali.  
Current password:  
New password:  
Retype new password:  
passwd: password updated successfully  
dan@kali:~$
```

Ensure that you provide the correct command(s) used to accomplish each task. Write your answers below each task.

Once you have completed the assessment, review your answers and verify that the output or results are correct.

Make this in doucement format and send them with images