KALI LINUX COMMAND LIST ASSIGNMENT

NAME: MALLIDI VISWA TEJA REDDY
REG.NO: 20BCN7117
CAMPUS: VITAP UNIVERSITY

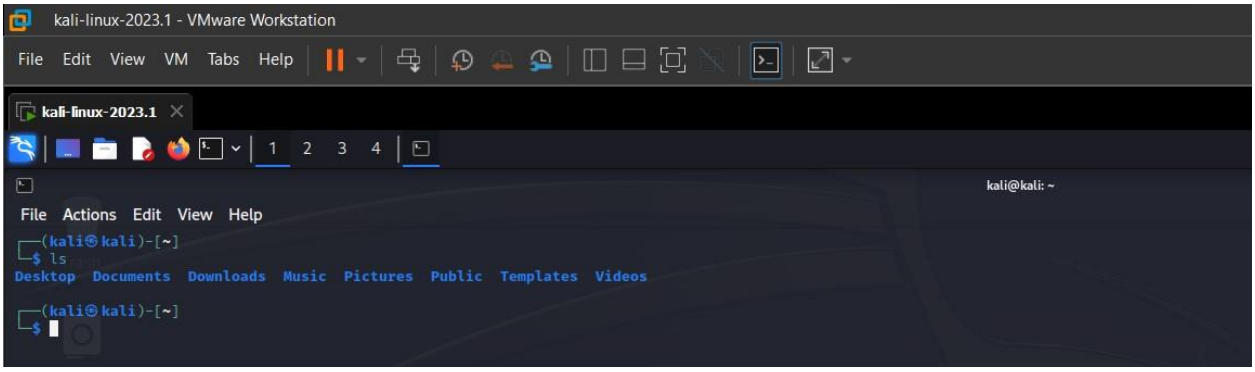
Instructions: -

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.

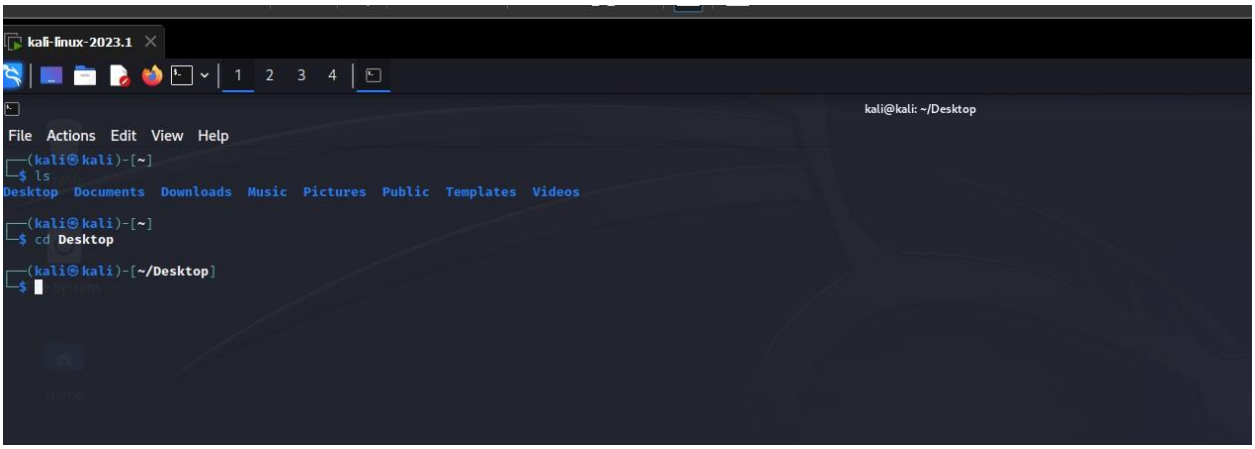
Note: It is recommended to perform this assessment on a Linux machine or virtual environment.

File and Directory Operations:

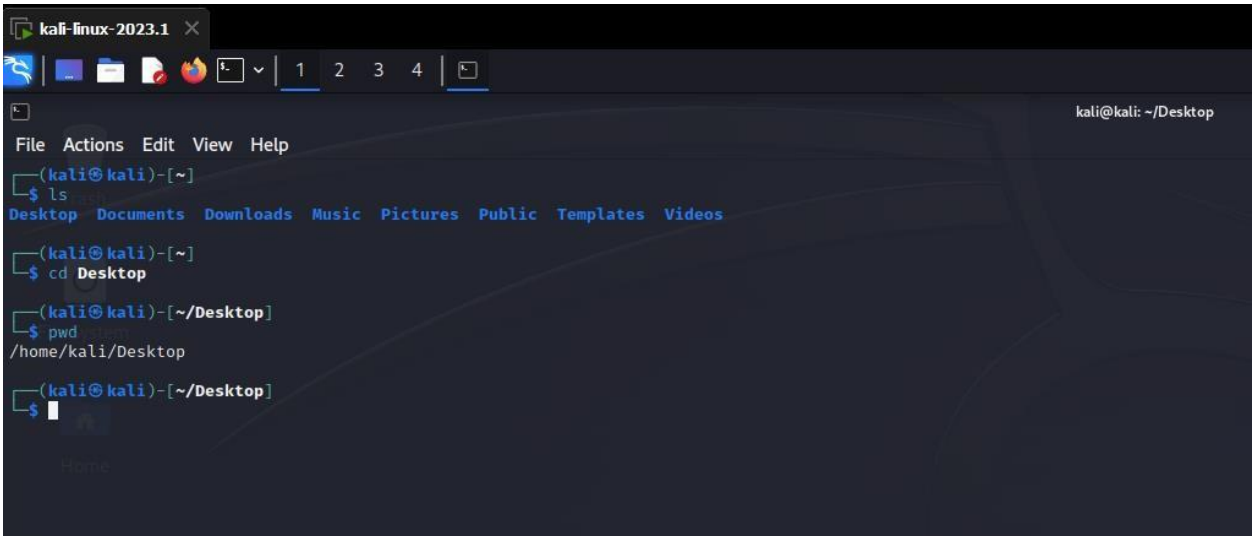
ls: List files and directories



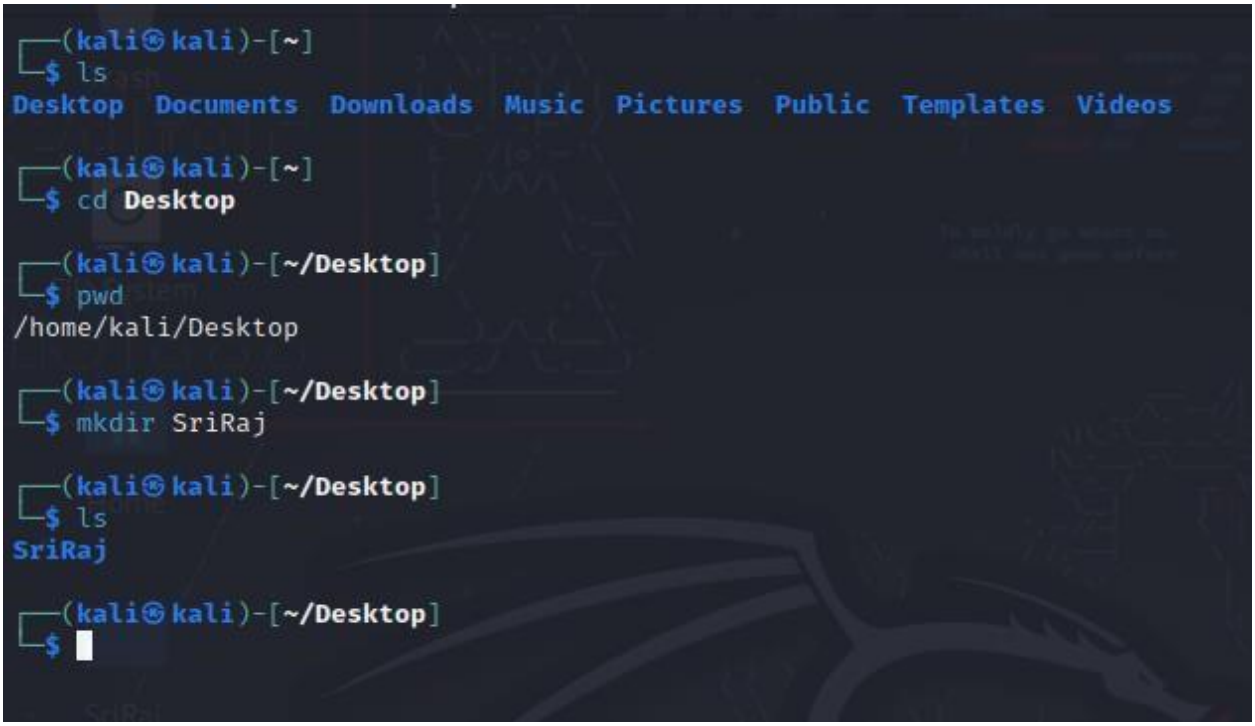
cd: Change directory



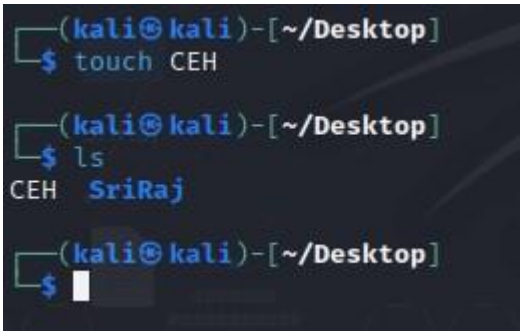
pwd: Print working directory



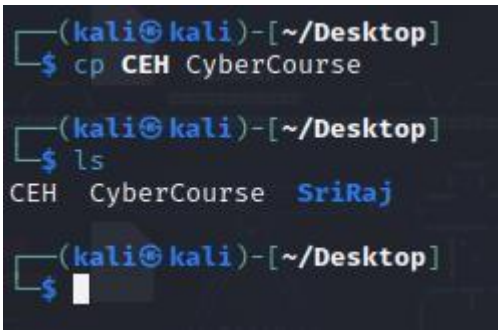
mkdir: Make directory



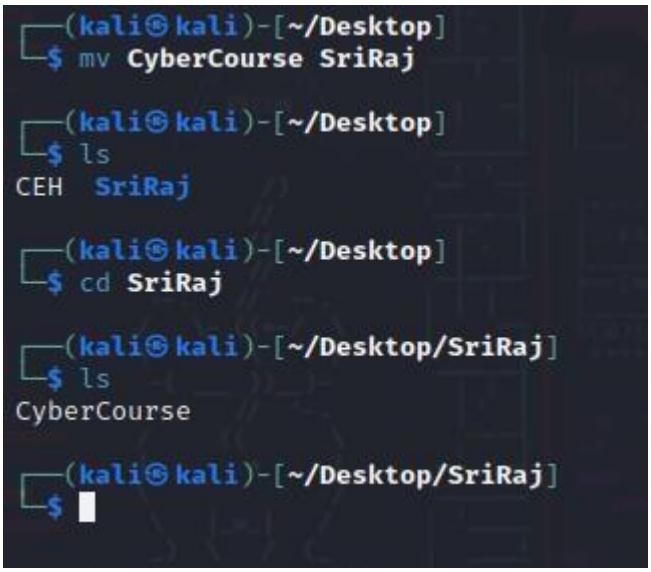
touch: Create an empty file



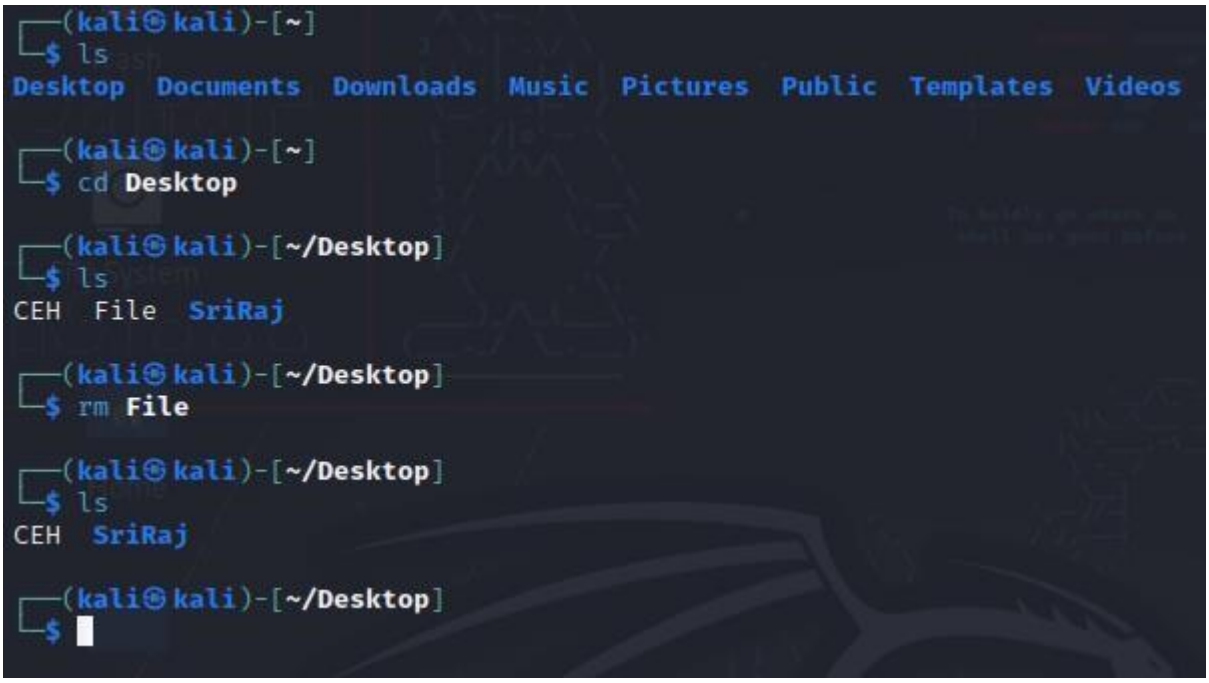
cp: Copy files and directories



mv: Move or rename files and directories



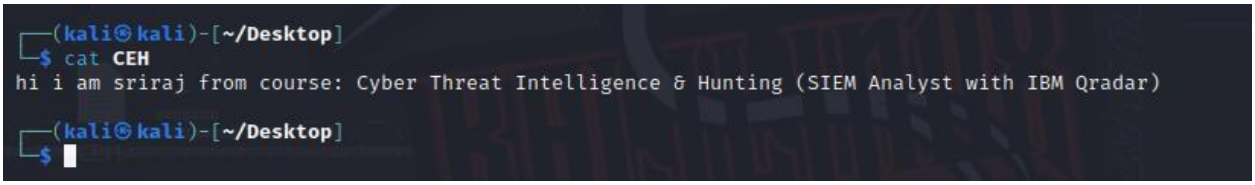
rm: Remove files and directories



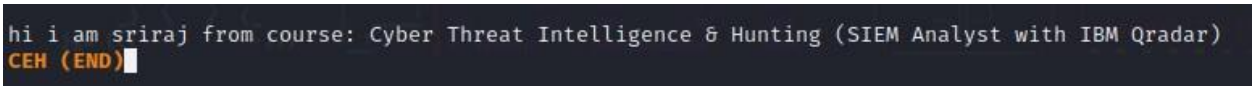
find: Search for files and directories

File Viewing and Editing:

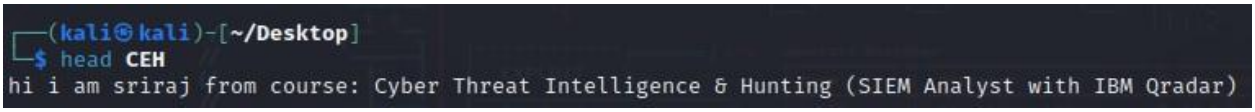
cat: Concatenate and display file content



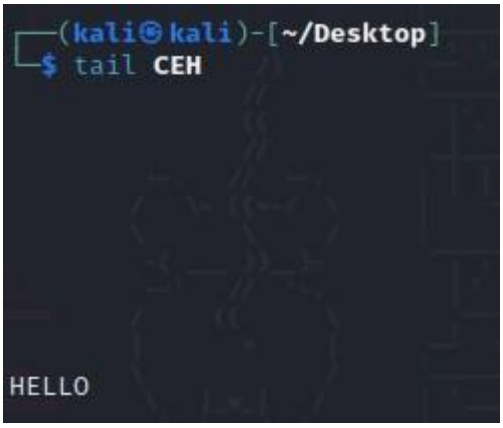
less: View file content with pagination



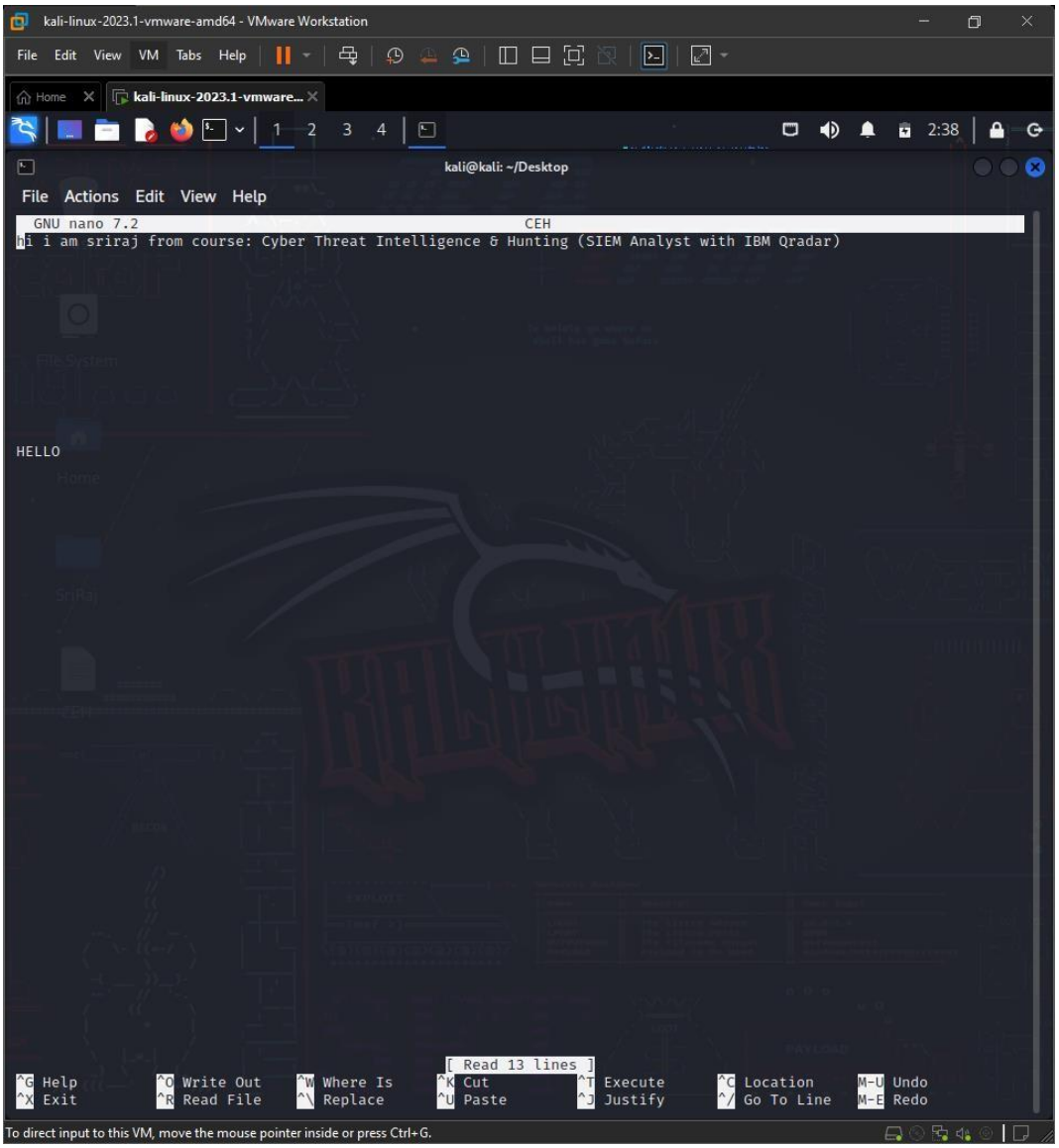
head: Display the beginning of a file



tail: Display the end of a file



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
hi 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

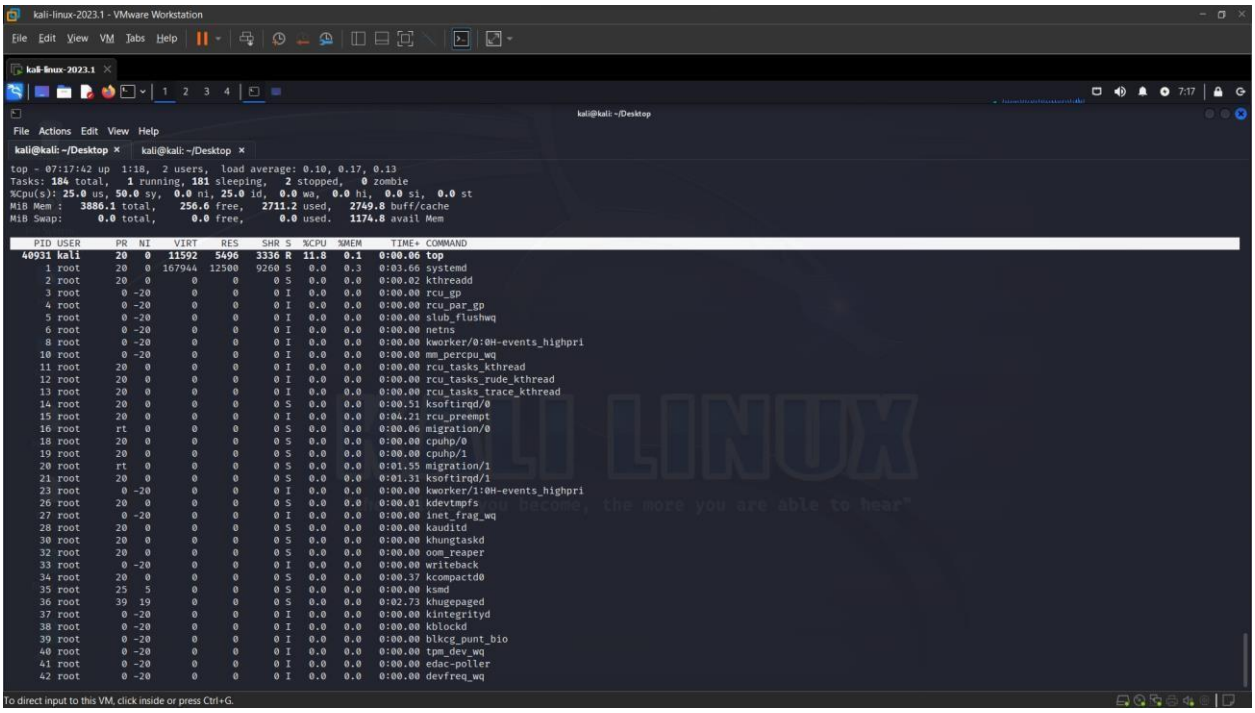
```
┌──(kali㉿kali)-[~/Desktop]
└─$ unzip 'dark.zip'
Archive:  dark.zip
replace hackerY? [y]es, [n]o, [A]ll, [N]one, [r]ename:
error:  invalid response [{ENTER}]
replace hackerY? [y]es, [n]o, [A]ll, [N]one, [r]ename: hello
error:  invalid response [hello]
replace hackerY? [y]es, [n]o, [A]ll, [N]one, [r]ename: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

Process Management:

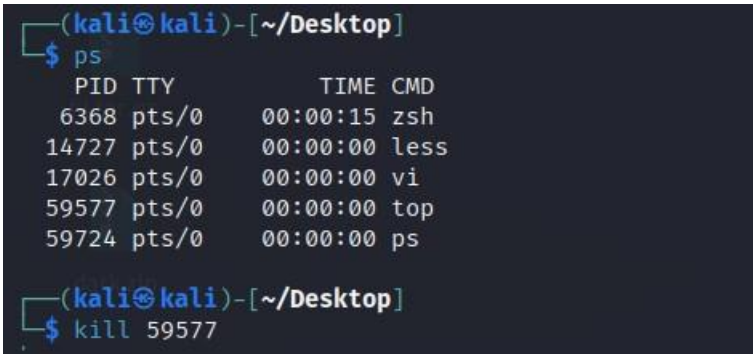
ps: List running processes

```
┌──(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



kill: Terminate processes



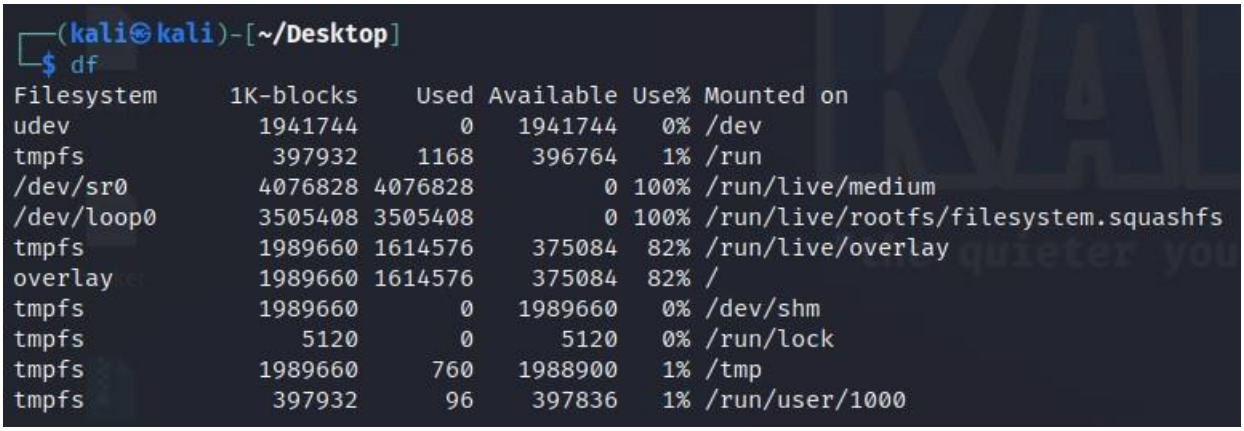
bg: Run processes in the background

fg: Bring background processes to the foreground

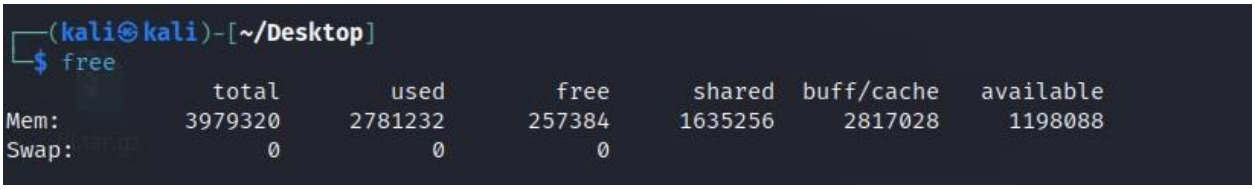
System Information:

uname: Print system information

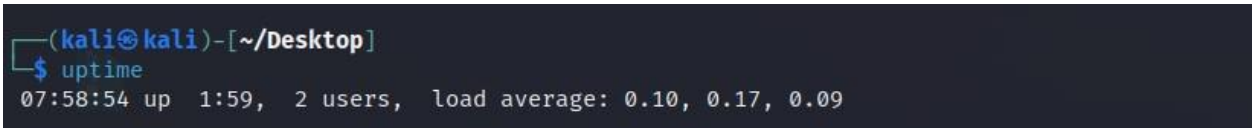
df: Display disk space usage



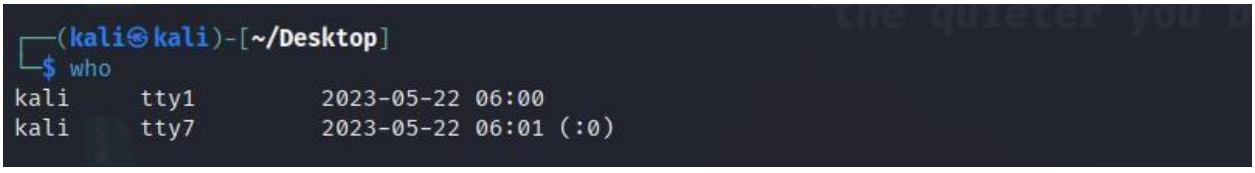
free: Display memory usage



uptime: Show system uptime



who: Display logged-in users



w: Display logged-in users and their activities

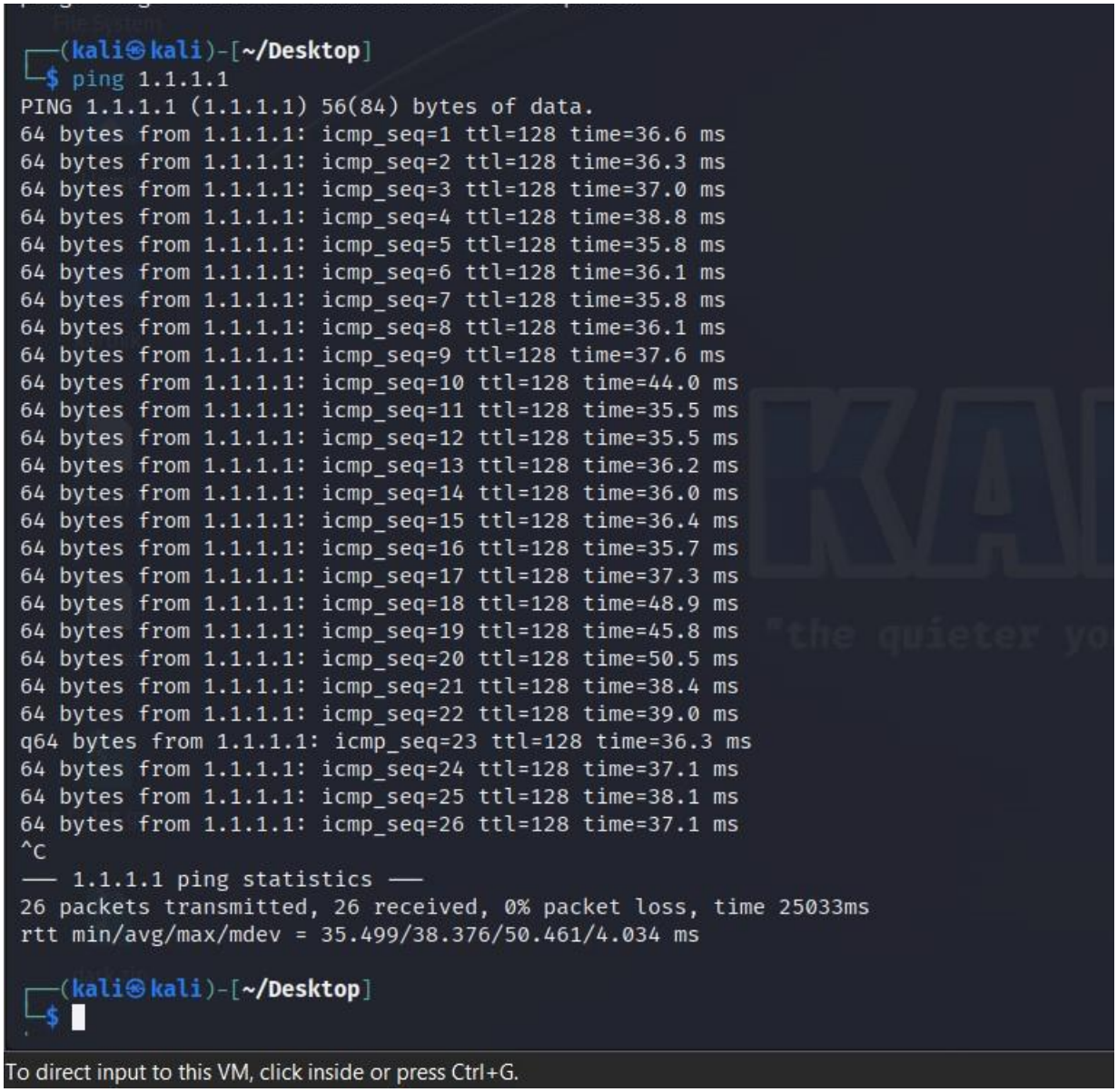
```
┌──(kali㉿kali)-[~/Desktop]
└─$ w
 07:59:41 up  2:00,  2 users,  load average: 0.04, 0.14, 0.08
USER     TTY      FROM             LOGIN@   IDLE   JCPU   PCPU WHAT
kali     tty1     -                06:00    1:59m  2.39s  2.31s -zsh
kali     tty7     :0               06:01    1:59m  1:25   0.95s xfce4-session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

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



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+4XClsUd6yzDOXP/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  fil.tar.gz  hacker  hackerY

┌──(kali㉿kali)-[~/Desktop]
└─$
```

scp: Securely copy files between systems

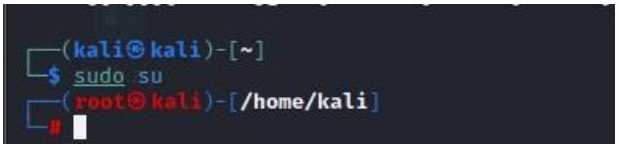
```
karna@karna-virtual-machine:~$ scp paper.txt kali@192.168.113.128:/~
kali@192.168.113.128's password:
paper.txt: No such file or directory
karna@karna-virtual-machine:~$ scp paper kali@192.168.113.128:/~
kali@192.168.113.128's password:
scp: /~: Permission denied
karna@karna-virtual-machine:~$
```

wget: Download files from the web

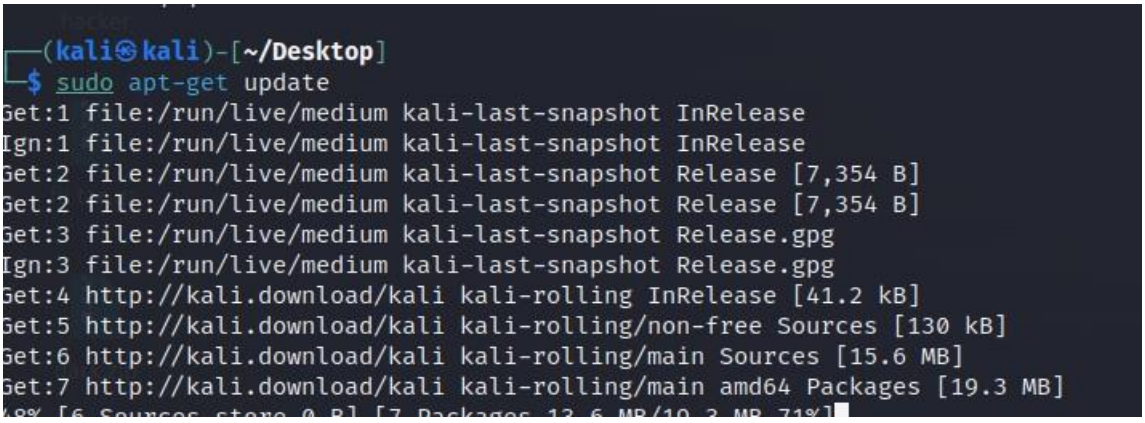
```
┌──(kali㉿kali)-[~]
└─$ systemctl start ssh

┌──(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/jpg]
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:

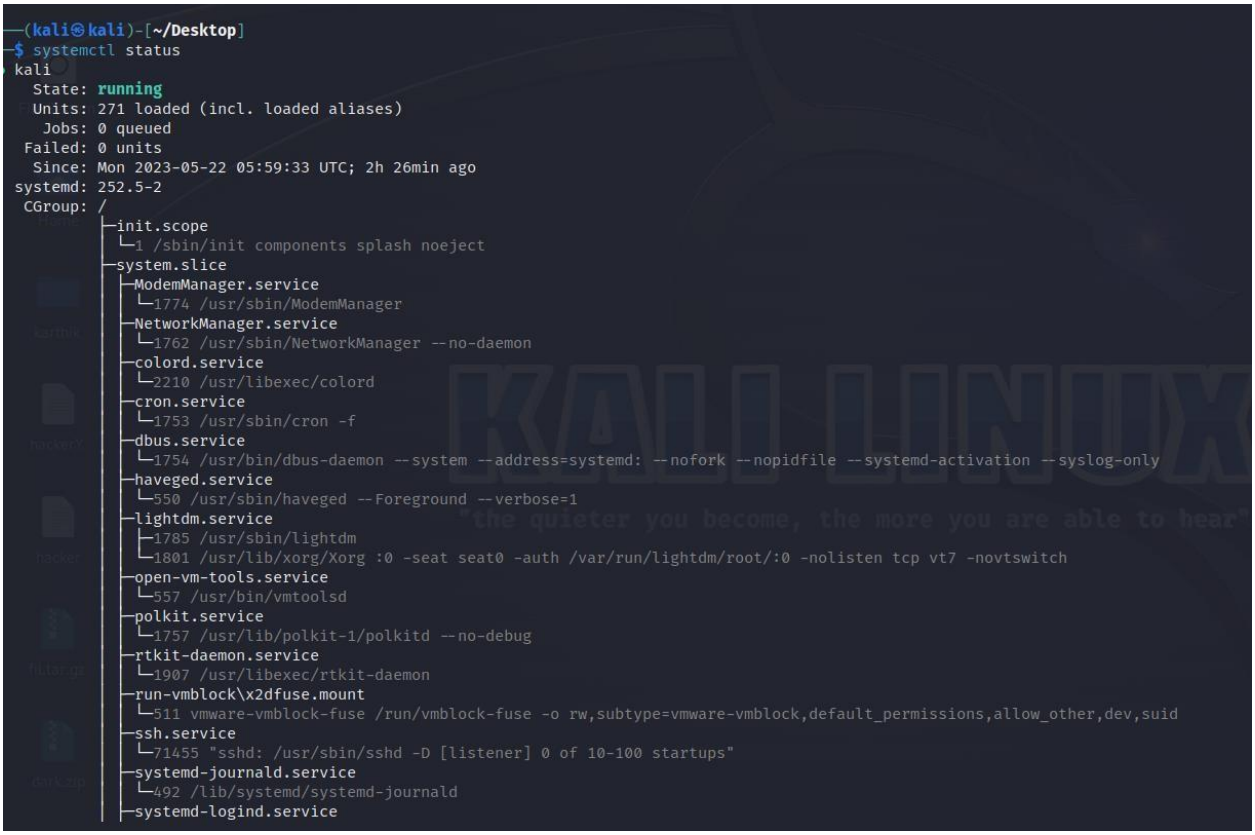
sudo: Execute commands with superuser privileges



apt-get: Package management for Debian-based distributions

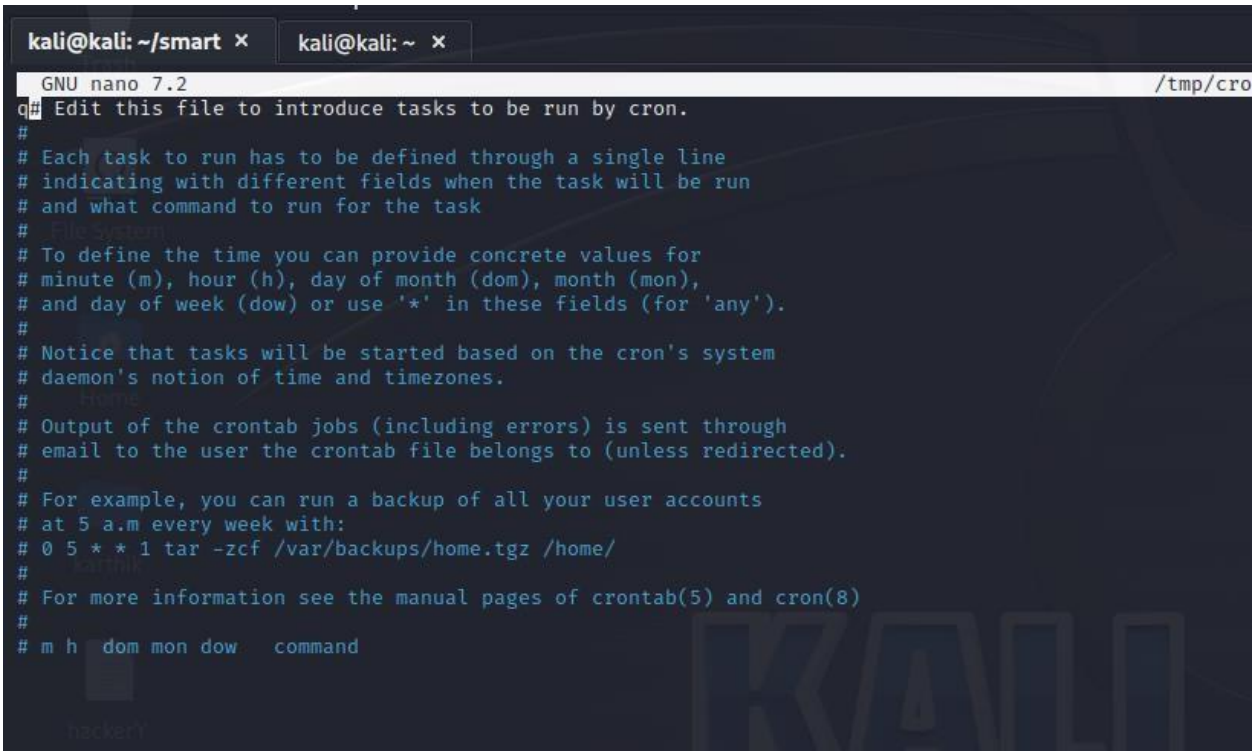


yum: Package management for Red Hat-based distributions systemctl: Manage system services



crontab: Schedule recurring tasks

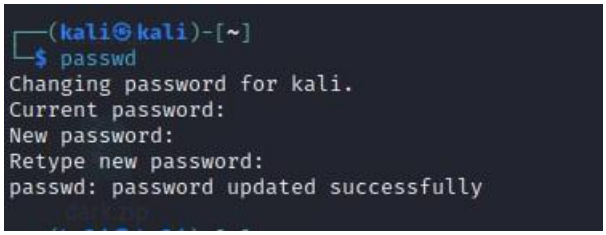
```
┌──(kali㉿kali)-[~/smart]
└─$ crontab -e
no crontab for kali - using an empty one

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
```



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



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