Title: Linux Command List Assessment

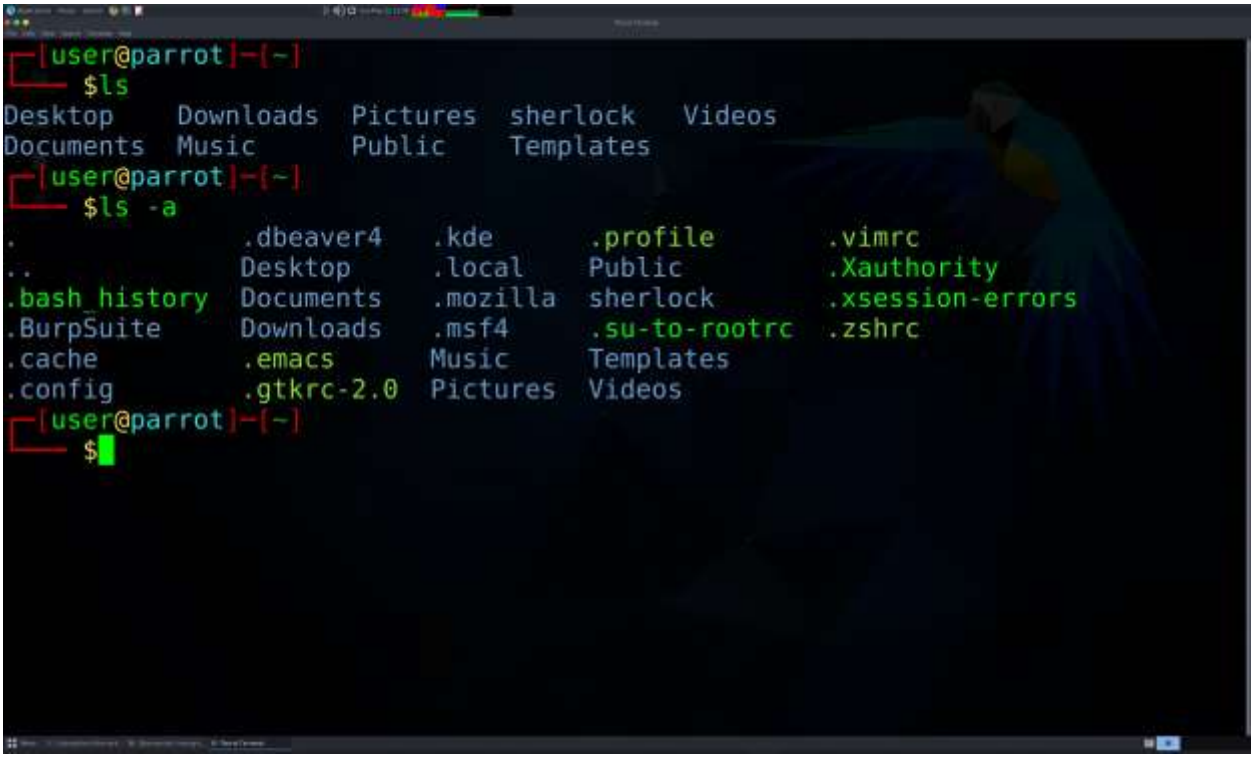
Instructions:-

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.

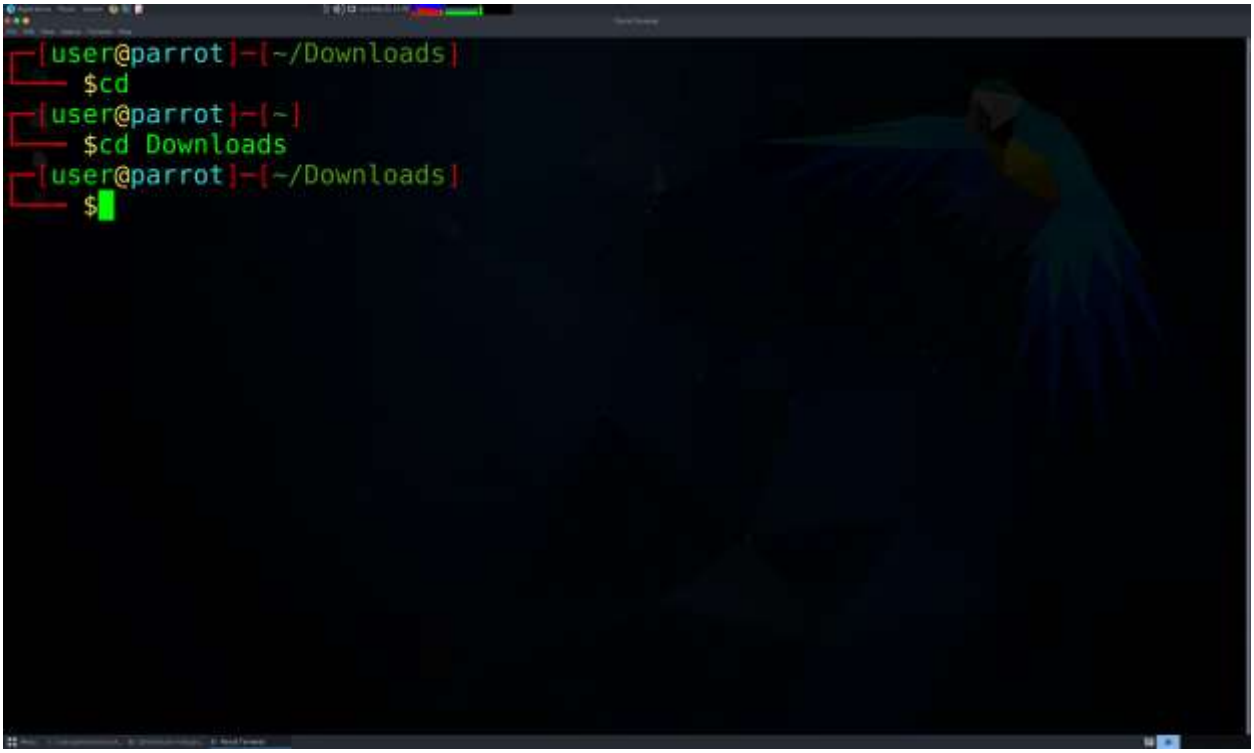
Note: It is recommended to perform this assessment on a Linux machine or virtual environment.

File and Directory Operations:

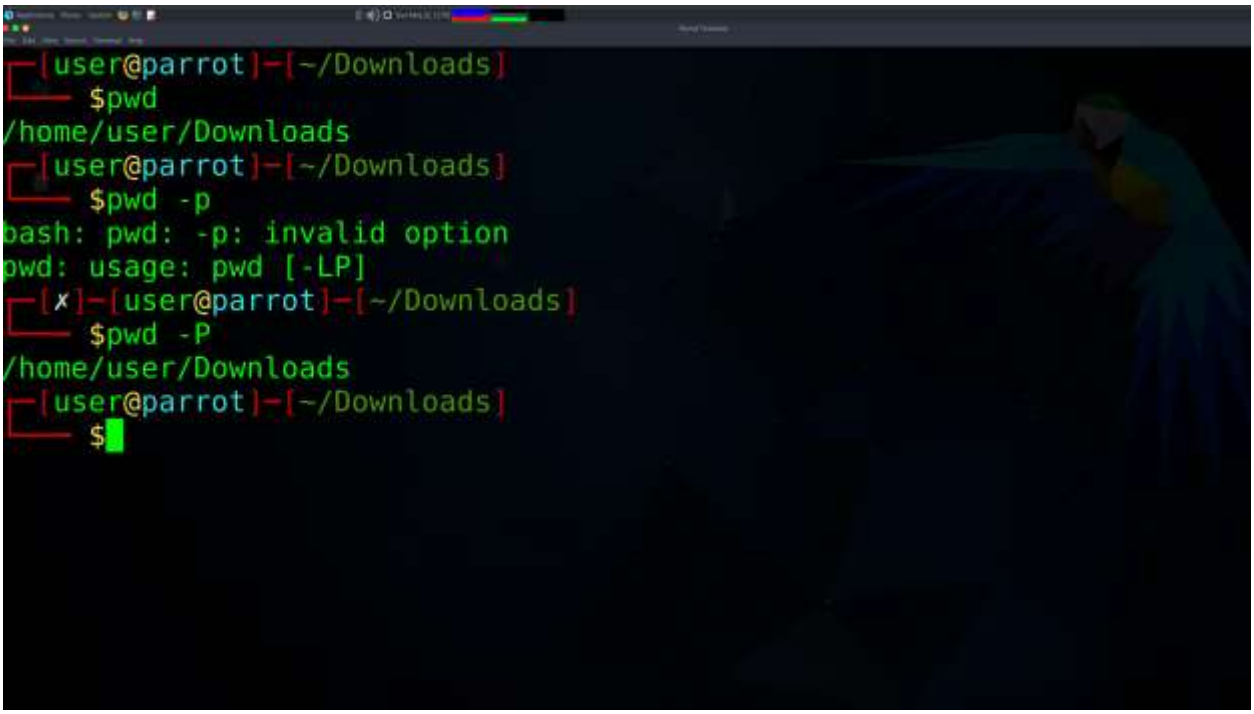
ls: List files and directories



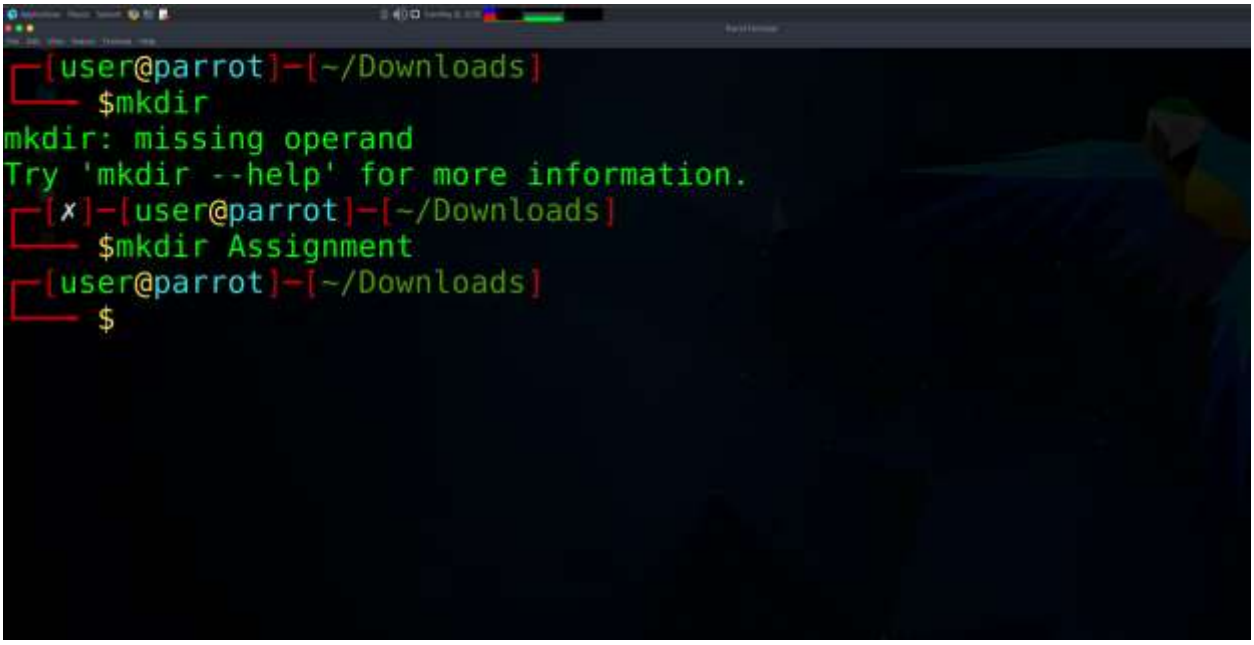
cd: Change directory



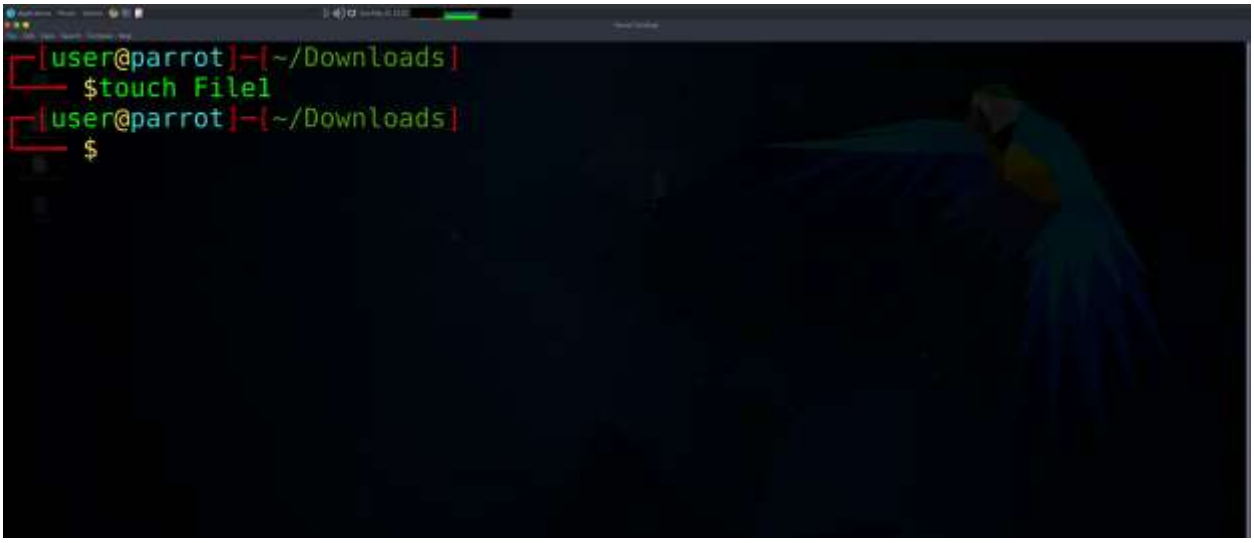
pwd: Print working directory



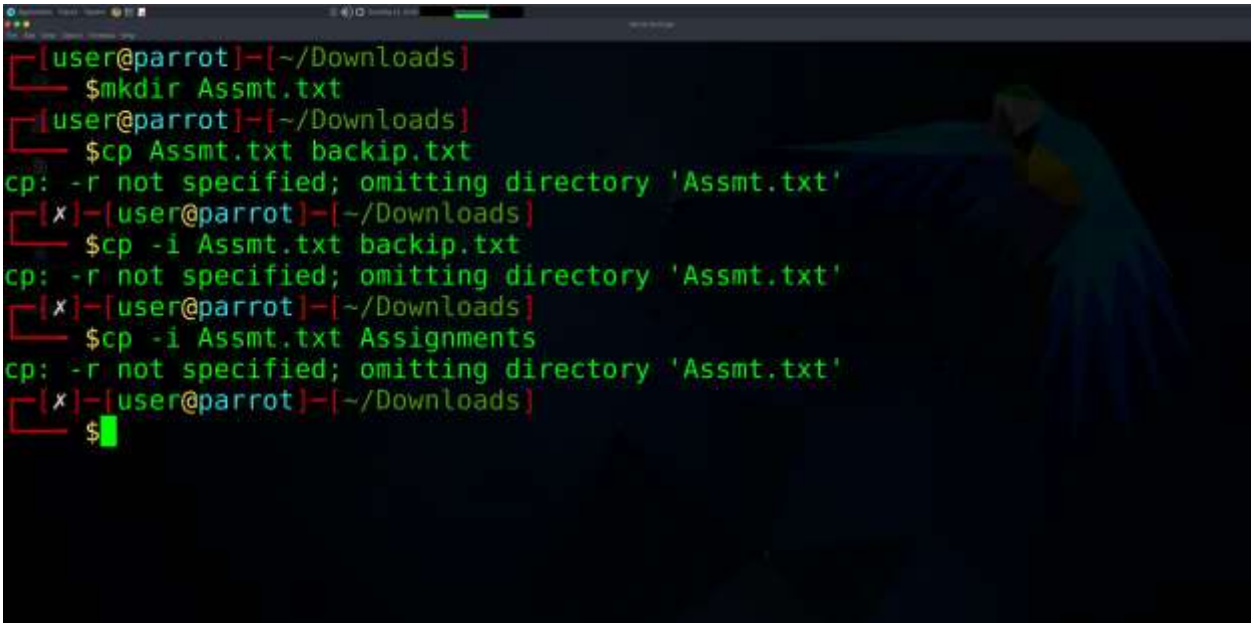
mkdir: Make directory



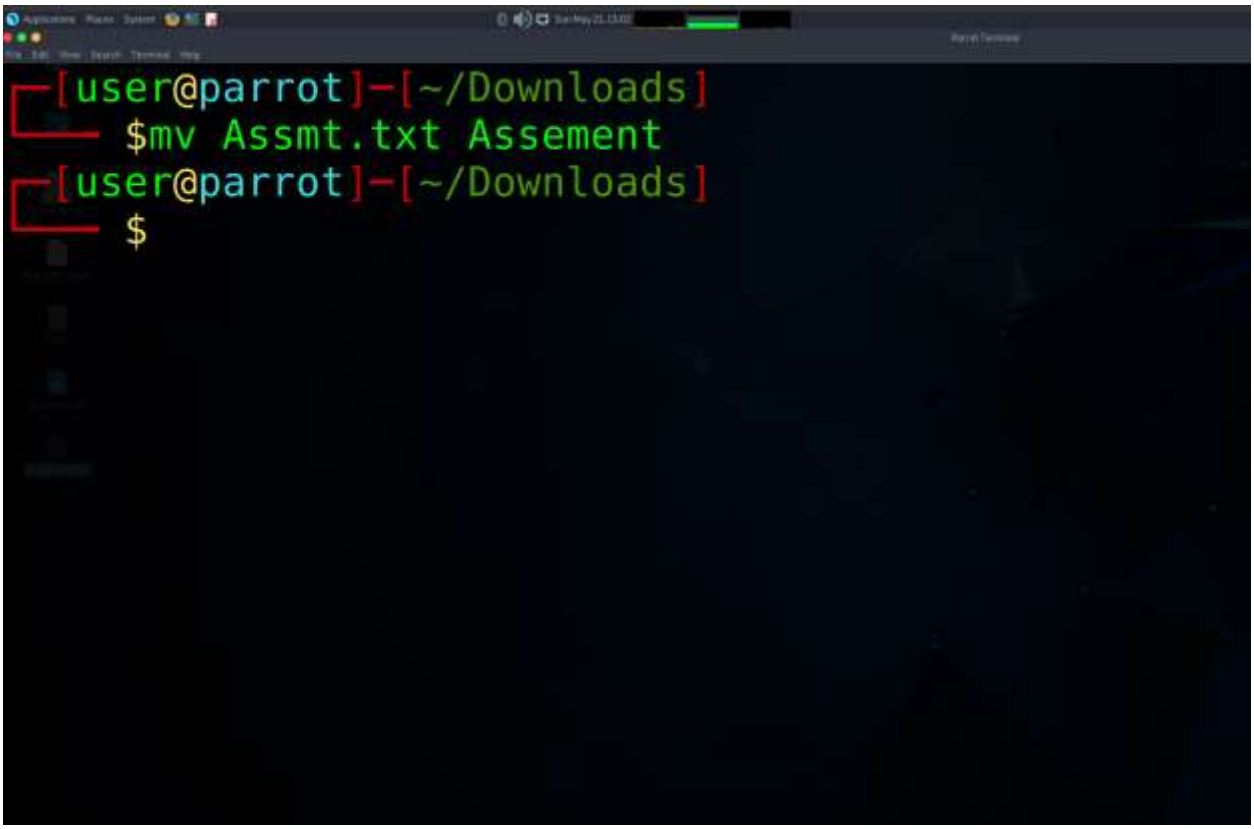
touch: Create an empty file



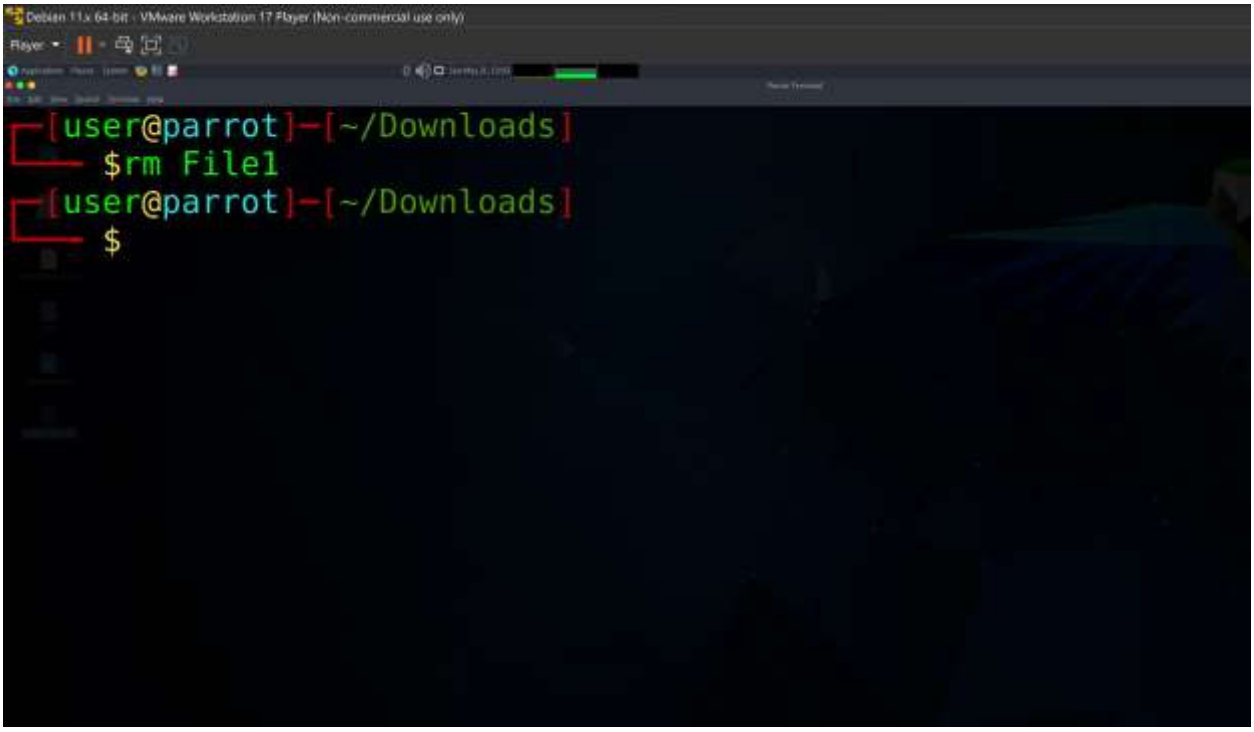
cp: Copy files and directories



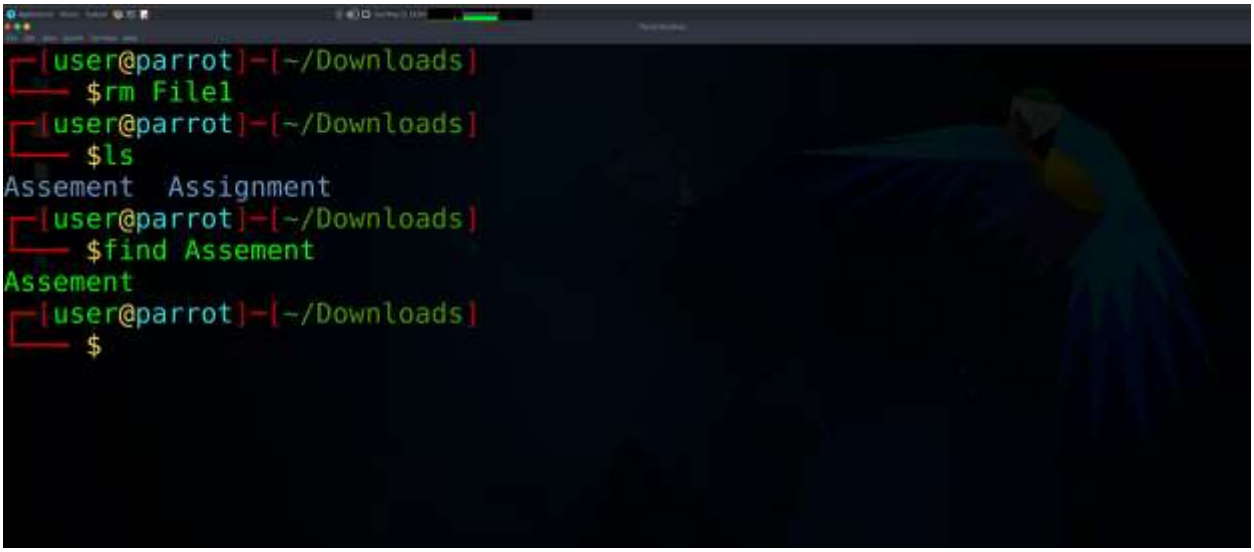
mv: Move or rename files and directories



rm: Remove files and directories

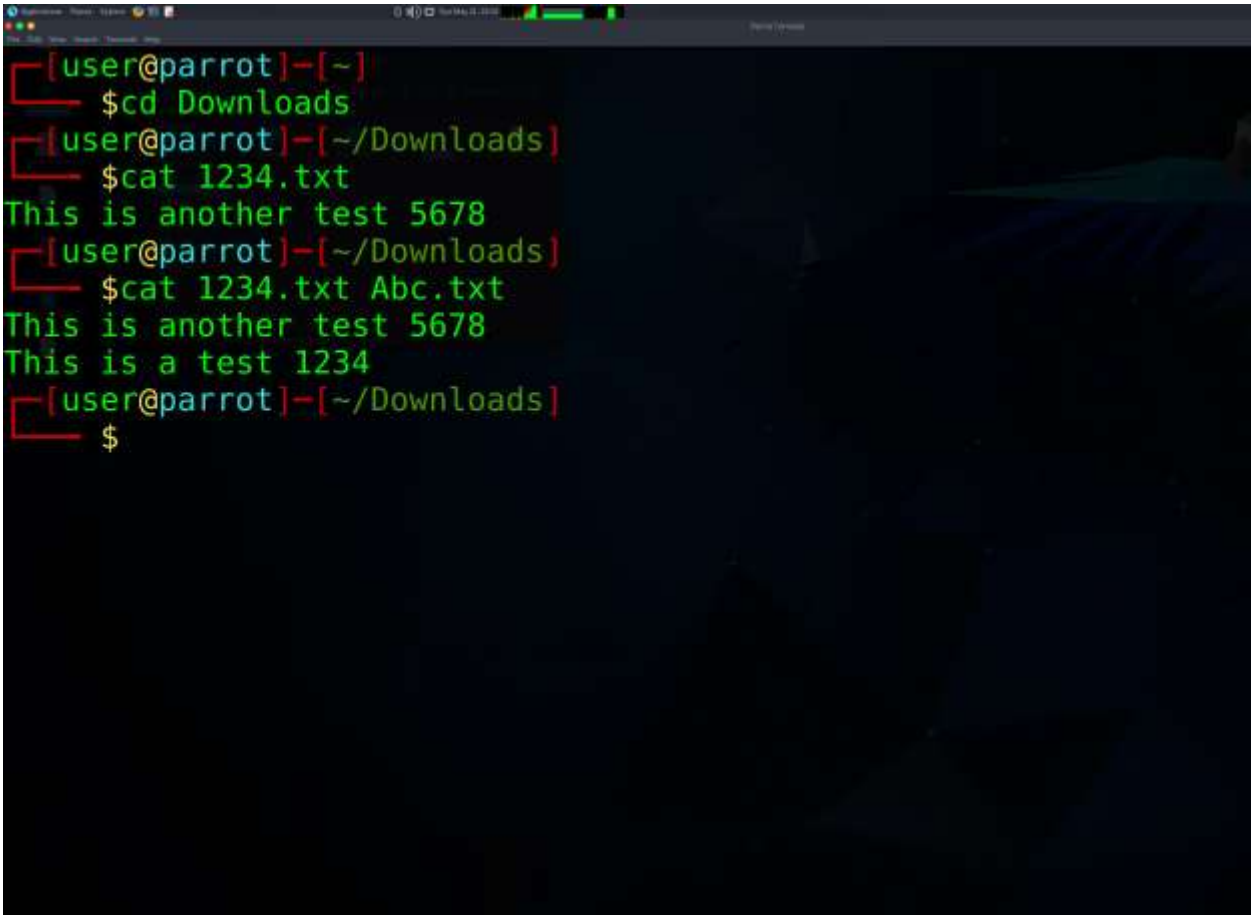


find: Search for files and directories

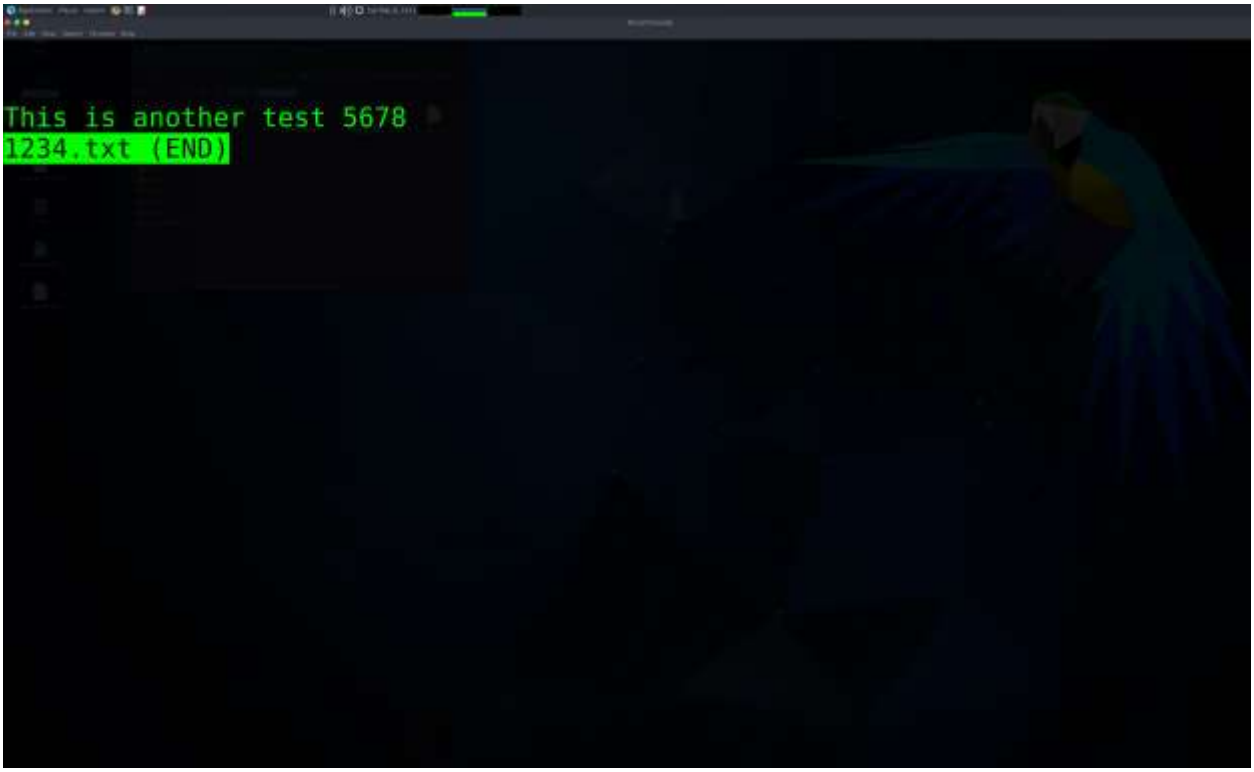


File Viewing and Editing:

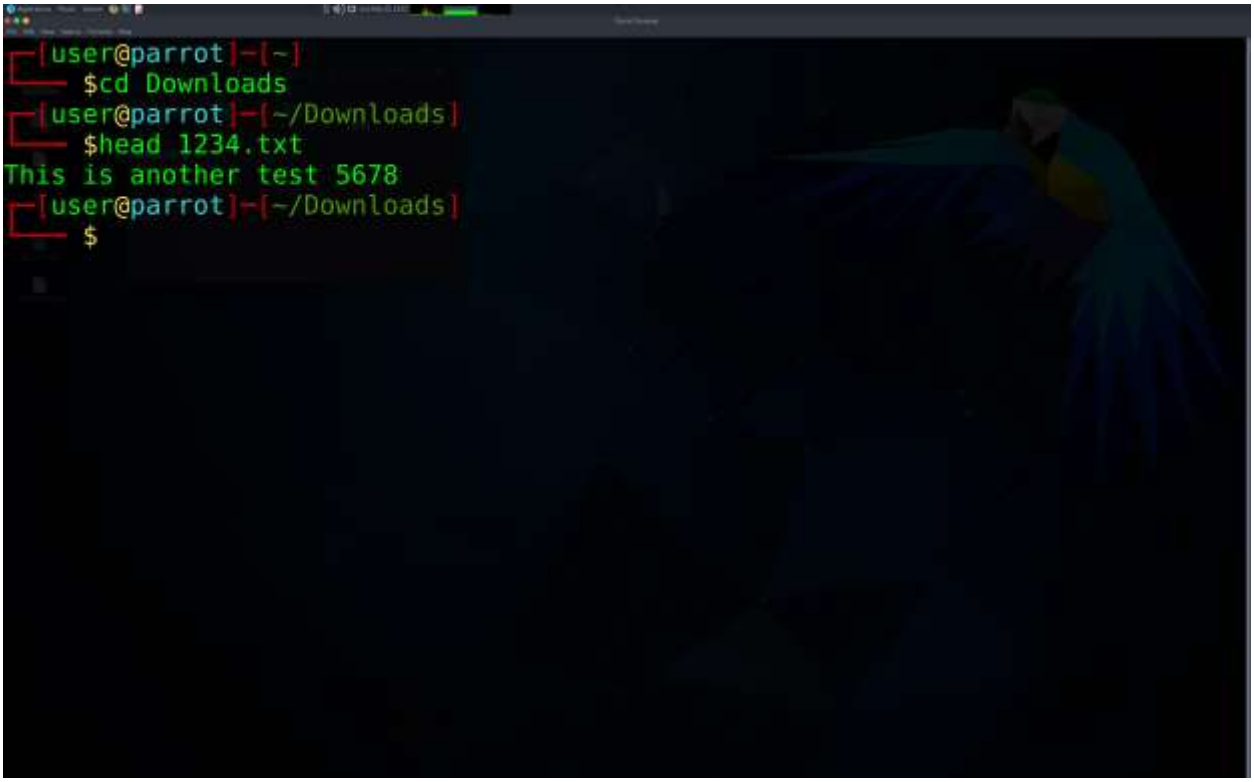
cat: Concatenate and display file content



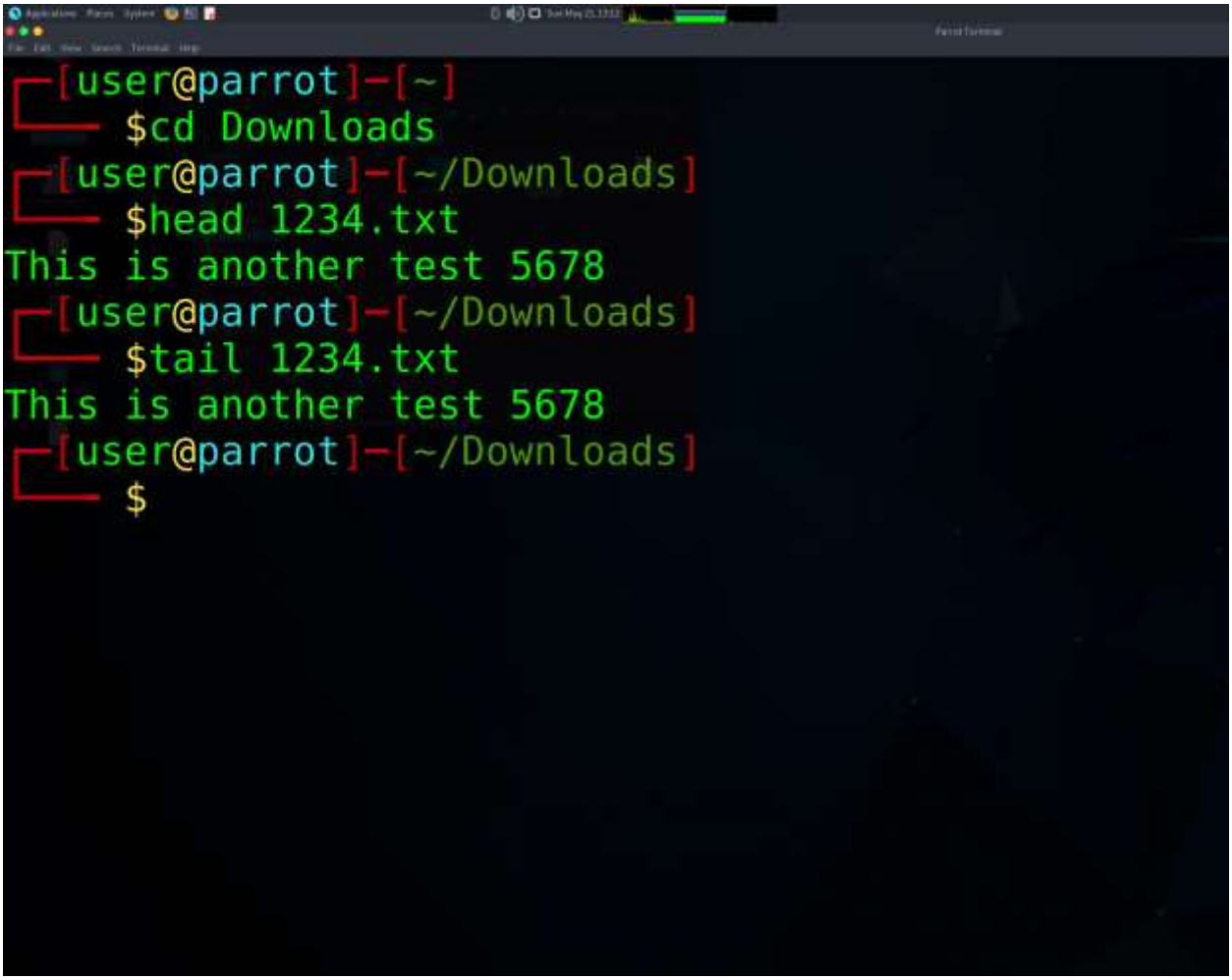
less: View file content with pagination



head: Display the beginning of a file

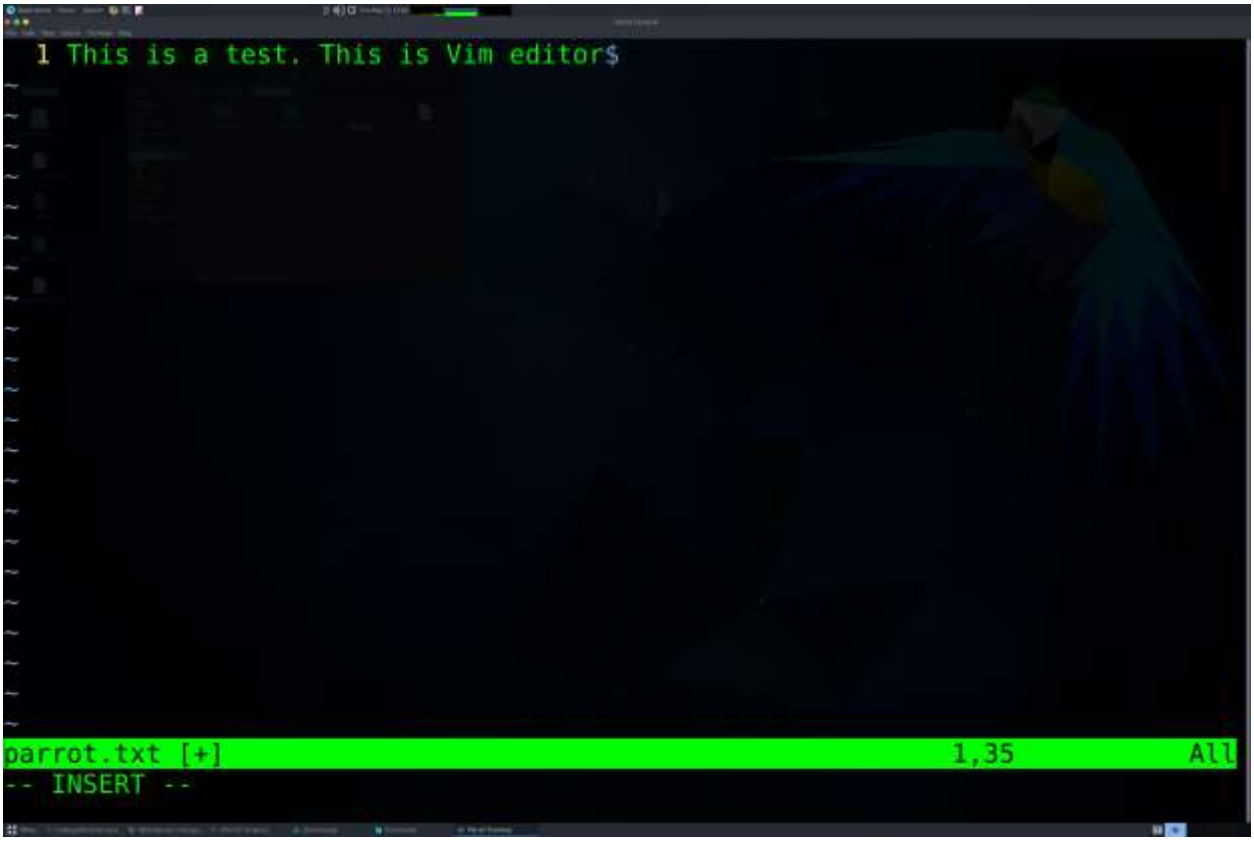


tail: Display the end of a file



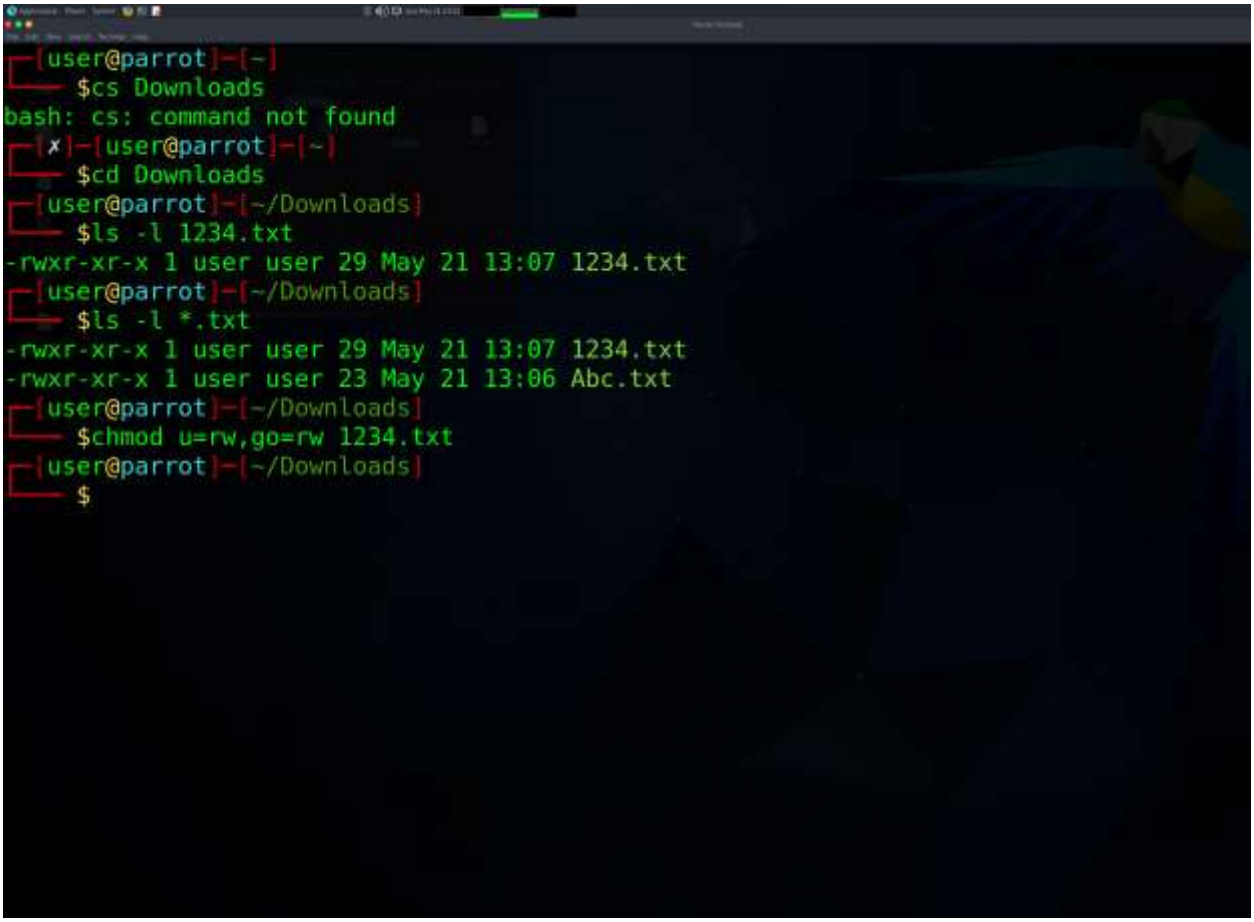
nano: Text editor for creating and editing files

vi/vim: Powerful text editor for experienced users

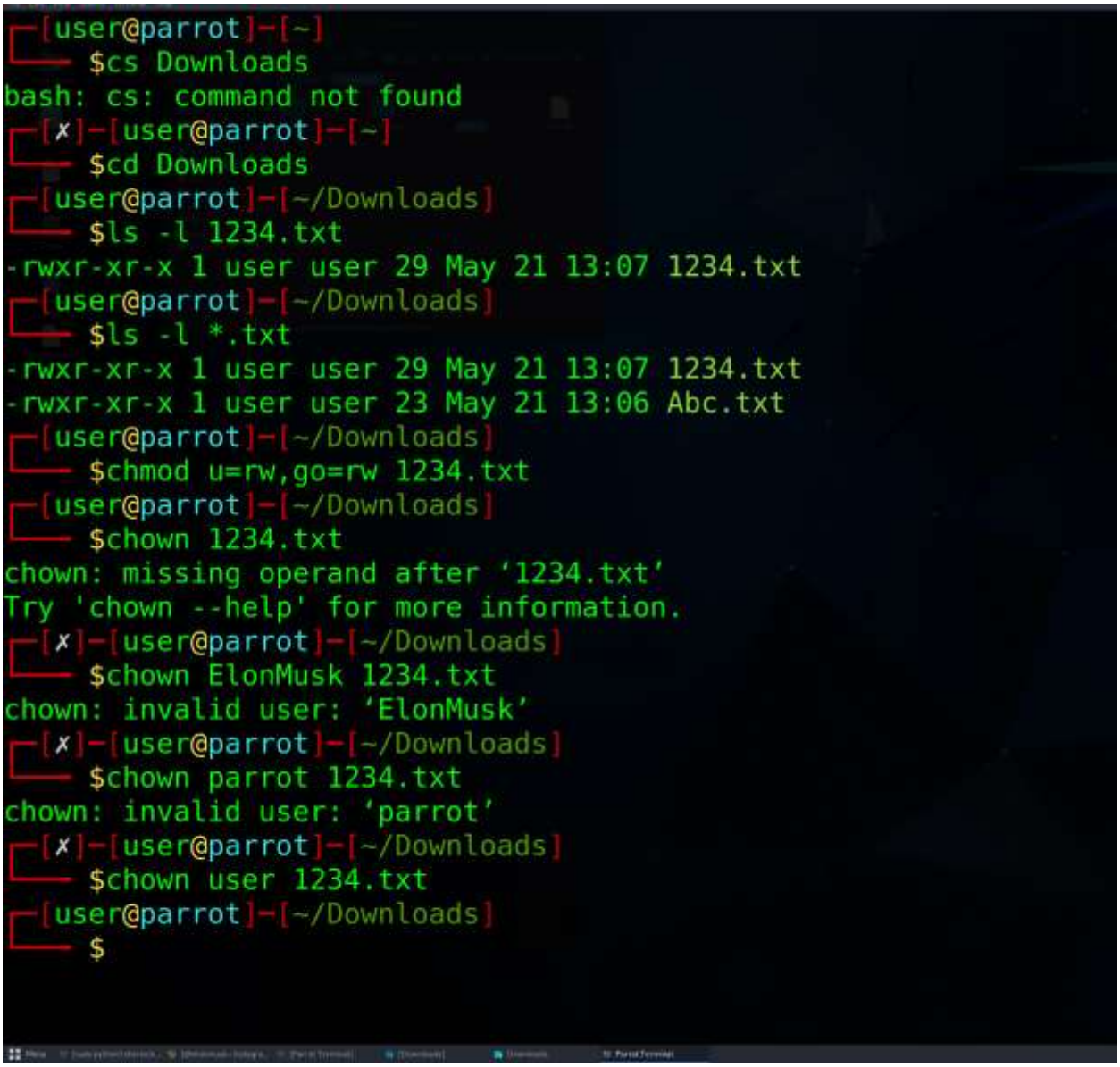


File Permissions:

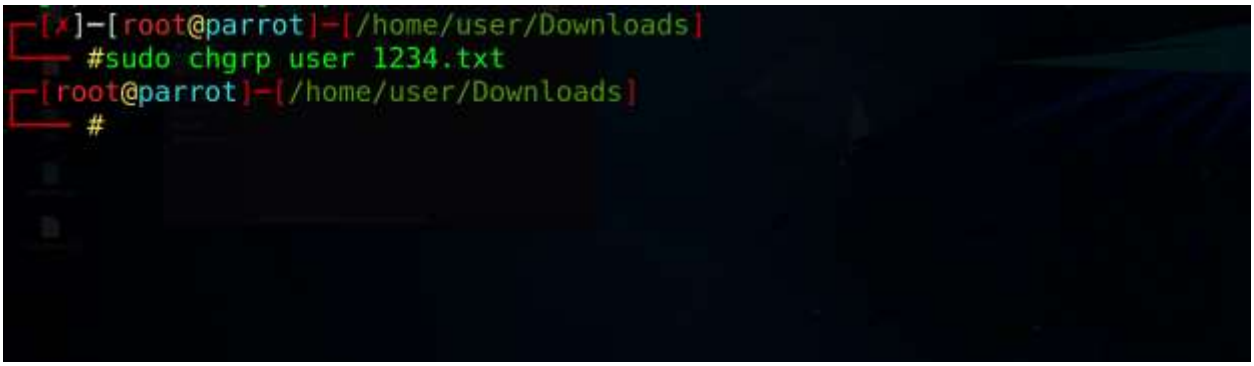
chmod: Change file permissions



chown: Change file owner



chgrp: Change file group



File Compression and Archiving:

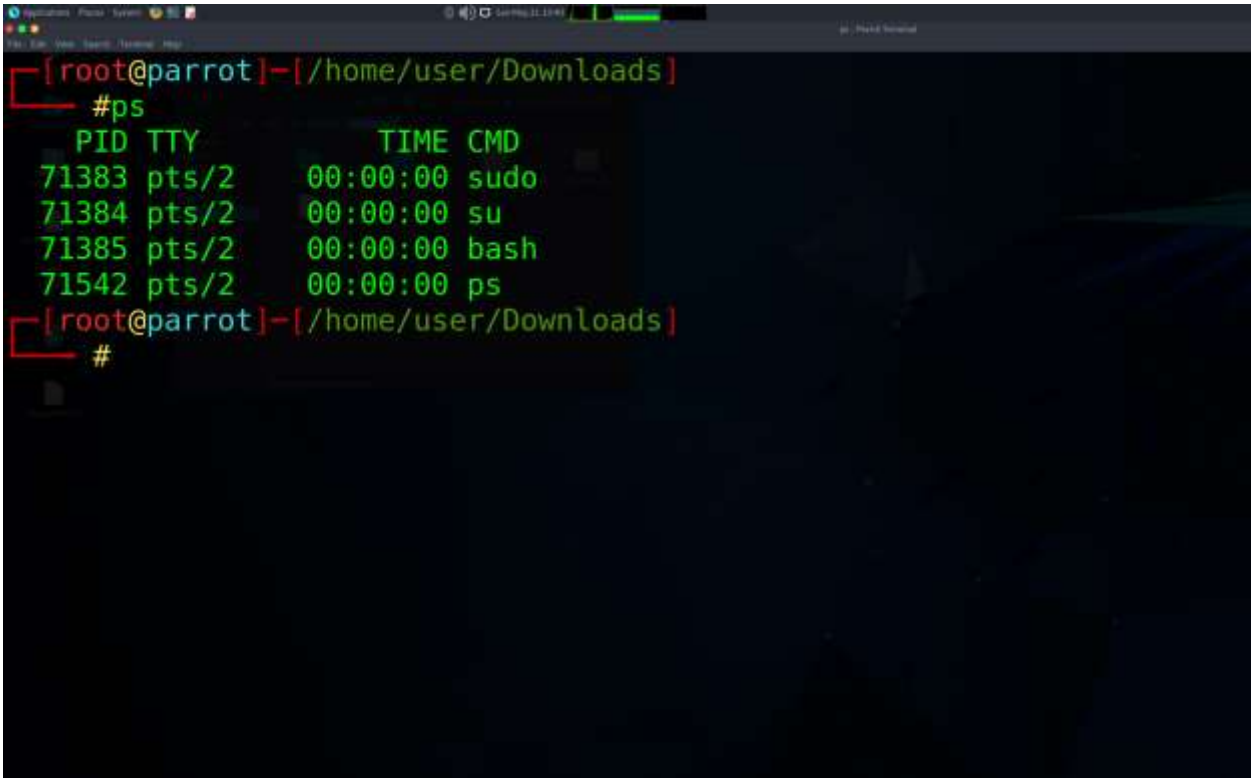
tar: Archive files

gzip: Compress files

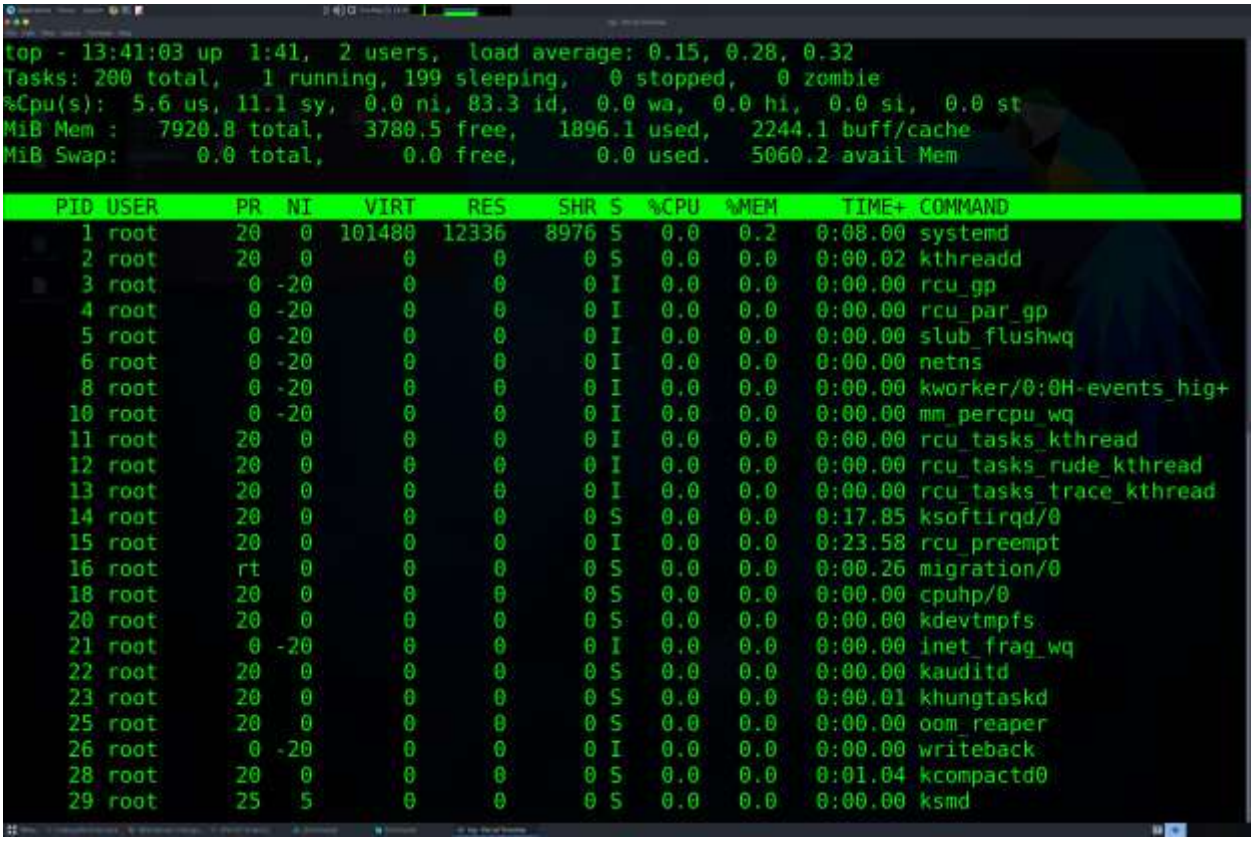
unzip: Extract files from a ZIP archive

Process Management:

ps: List running processes



top: Display real-time system information and processes



kill: Terminate processes

```
┌[✗]-[user@parrot]-[~]
└──$sudo kill -71383 process_ID
Terminated
┌[✗]-[user@parrot]-[~]
└──$
```

bg: Run processes in the background

```
┌[root@parrot]-[/home/user]
└──#jobs
┌[root@parrot]-[/home/user]
└──#sleep 500
^Z
[1]+  Stopped                 sleep 500
┌[✗]-[root@parrot]-[/home/user]
└──#jobs
[1]+  Stopped                 sleep 500
┌[root@parrot]-[/home/user]
└──#bg %1
[1]+ sleep 500 &
┌[root@parrot]-[/home/user]
└──#jobs
[1]+  Running                 sleep 500 &
┌[root@parrot]-[/home/user]
└──#
```

fg: Bring background processes to the foreground

```
┌─[✗]─[root@parrot]─[/home/user]
└──╼ #fg %1
sleep 500
```

System Information:

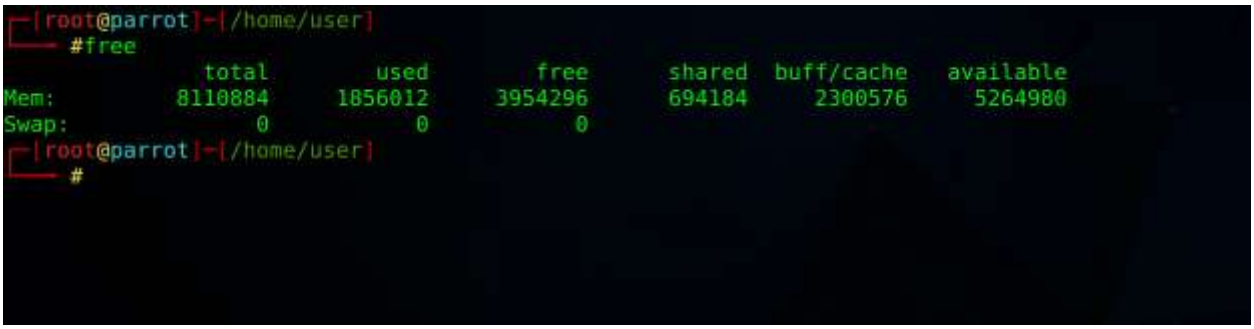
uname: Print system information

```
┌─[✗]─[root@parrot]─[/home/user]
└──╼ #uname
Linux
┌─[root@parrot]─[/home/user]
└──╼ #
```

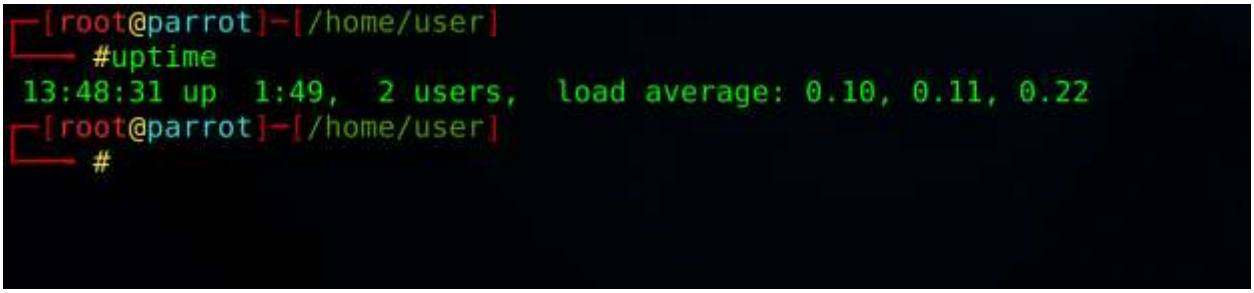
df: Display disk space usage

```
┌─[root@parrot]─[/home/user]
└──╼ #df
Filesystem     1K-blocks    Used Available Use% Mounted on
udev             4001440       0   4001440   0% /dev
tmpfs             811092    1284    809808   1% /run
/dev/sr0         4988906 4988906         0 100% /run/live/medium
/dev/loop0       4820608 4820608         0 100% /run/live/rootfs/filesystem.squashfs
tmpfs            4055444  613848   3441596  16% /run/live/overlay
overlay          4055444  613848   3441596  16% /
tmpfs            4055440       0   4055440   0% /dev/shm
tmpfs               5120       4      5116   1% /run/lock
tmpfs            4055440     504   4054936   1% /tmp
tmpfs             811088      88    811000   1% /run/user/1000
┌─[root@parrot]─[/home/user]
└──╼ #
```

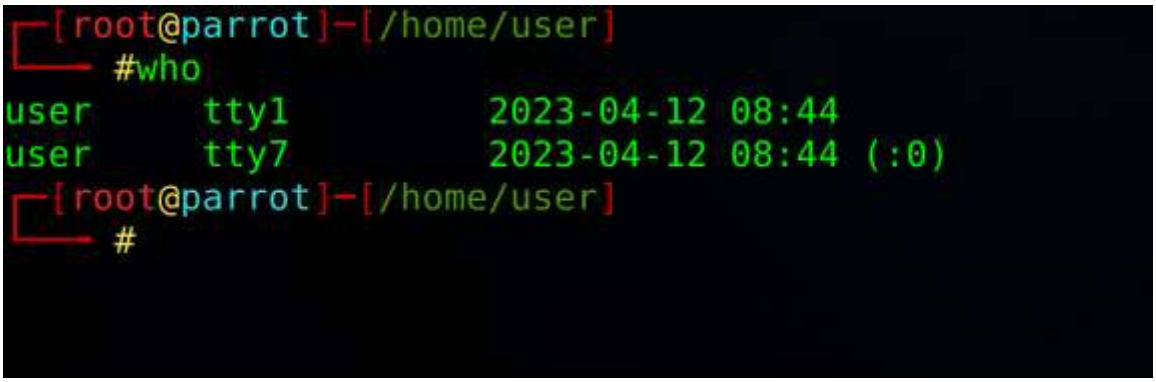
free: Display memory usage



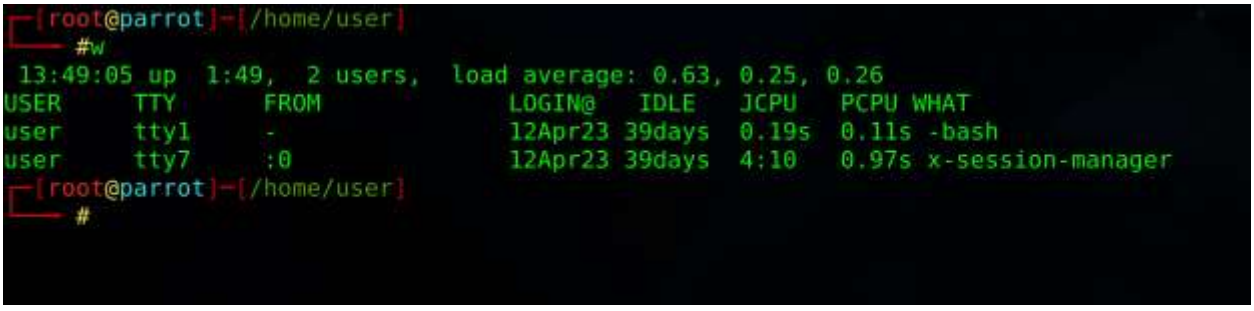
uptime: Show system uptime



who: Display logged-in users

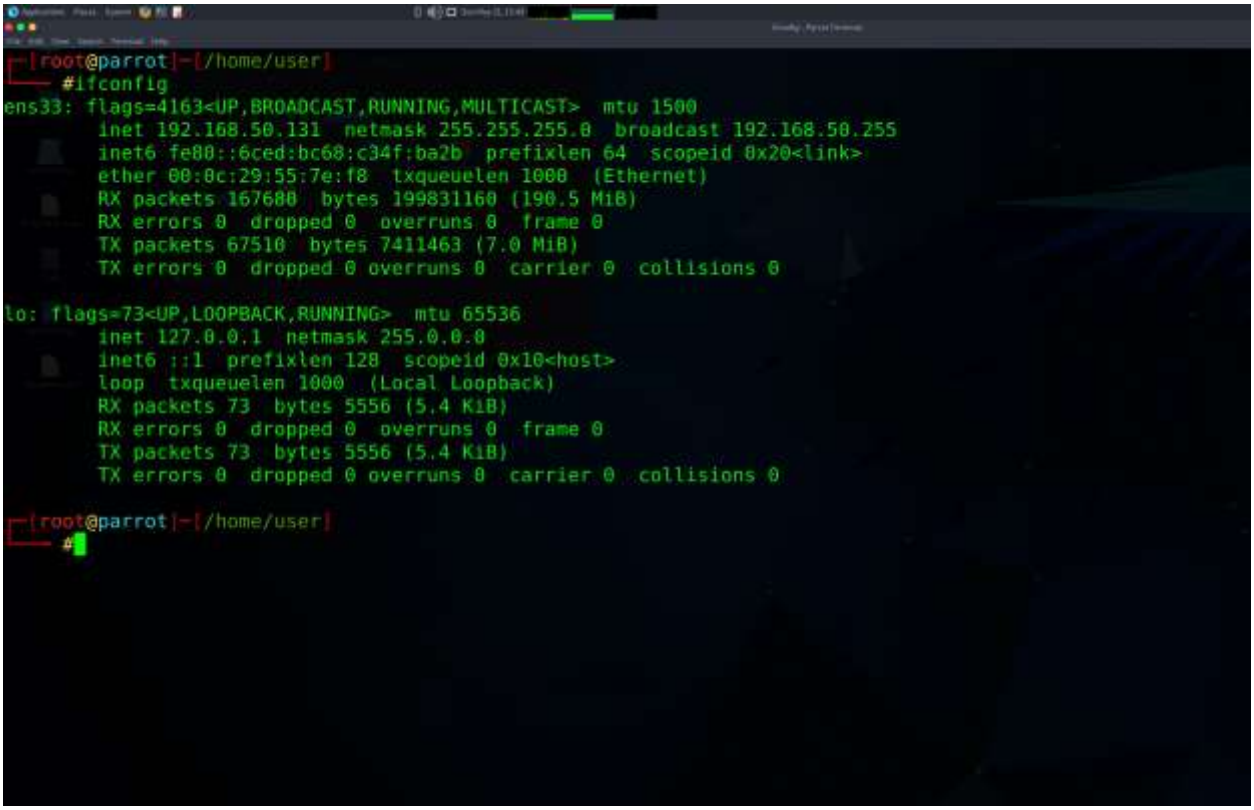


w: Display logged-in users and their activities

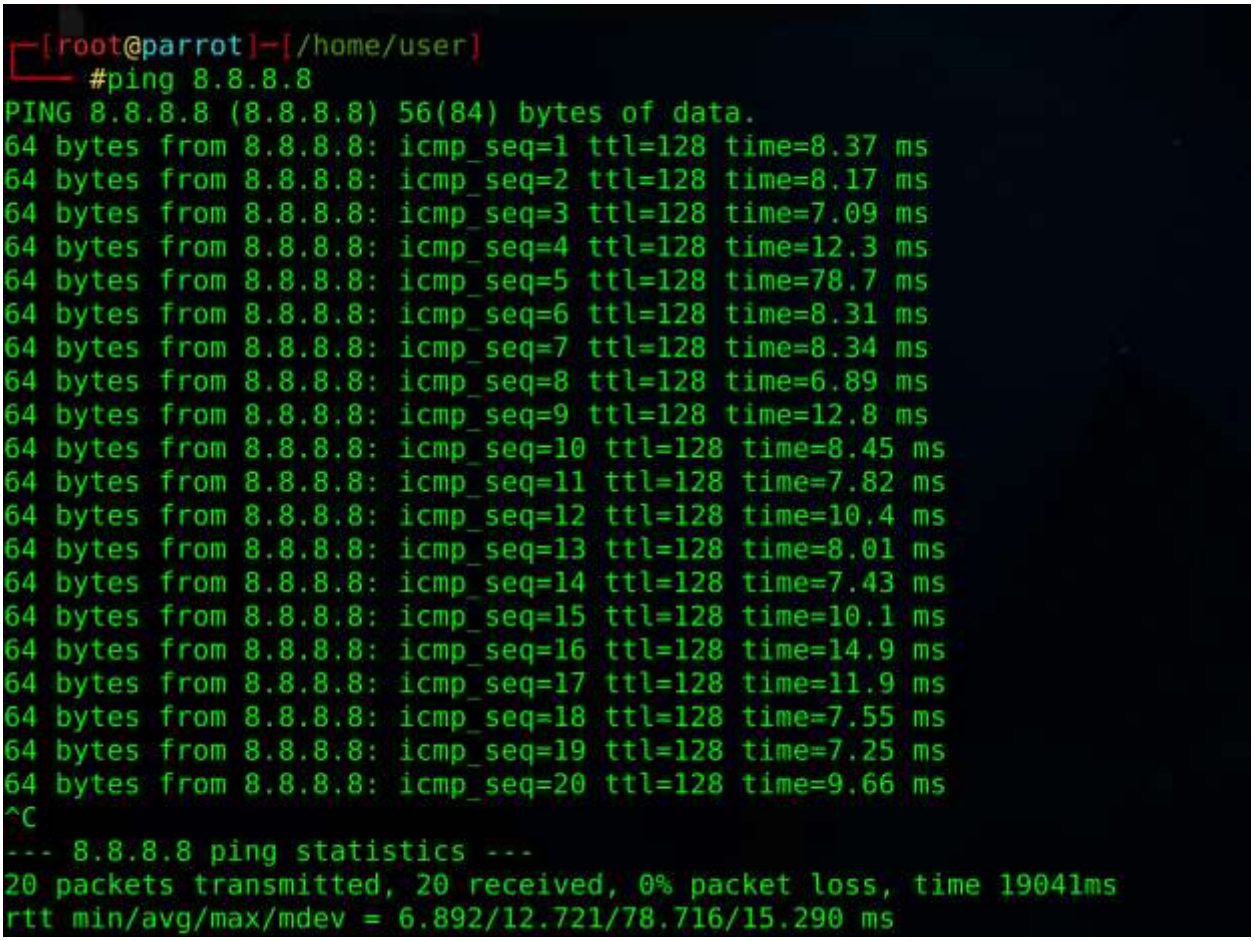


Networking:

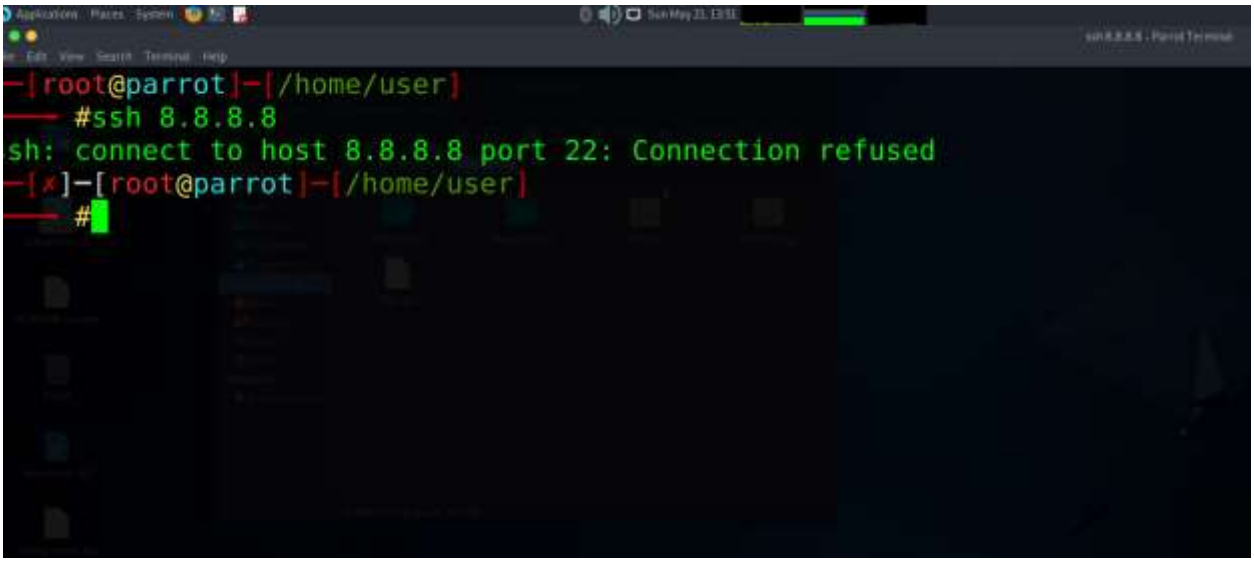
ifconfig: Configure network interfaces



ping: Send ICMP echo requests to a network host



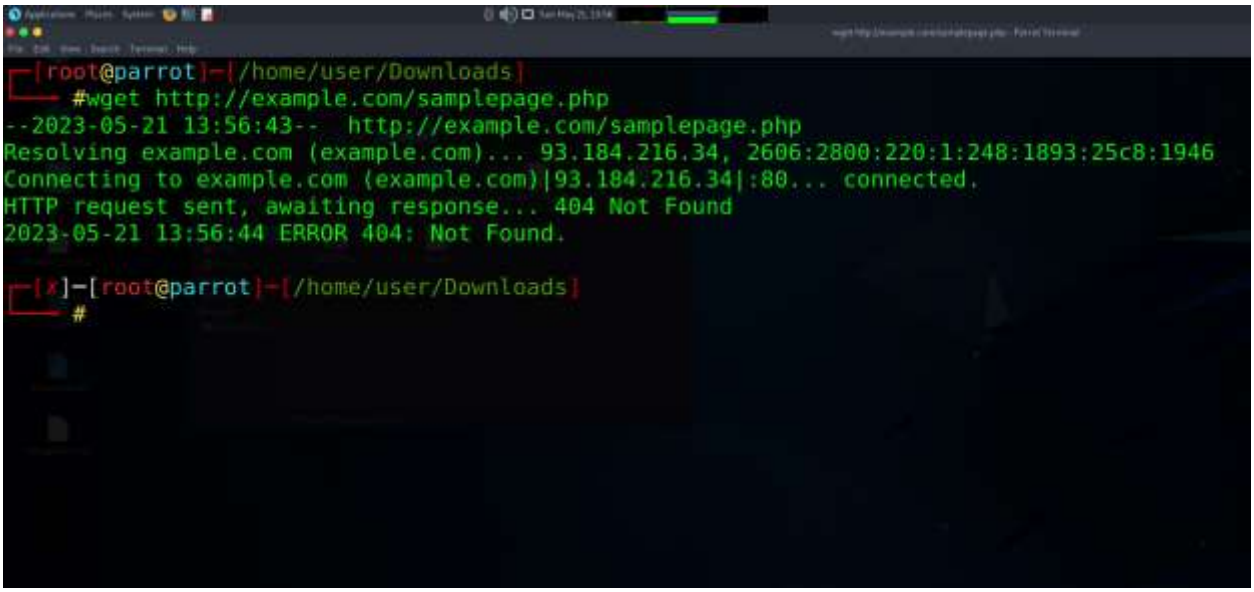
ssh: Securely connect to a remote system



scp: Securely copy files between systems

```
#scp Abc.txt user@192.168.50.255;/home/user
bash: /home/user: Is a directory
#
```

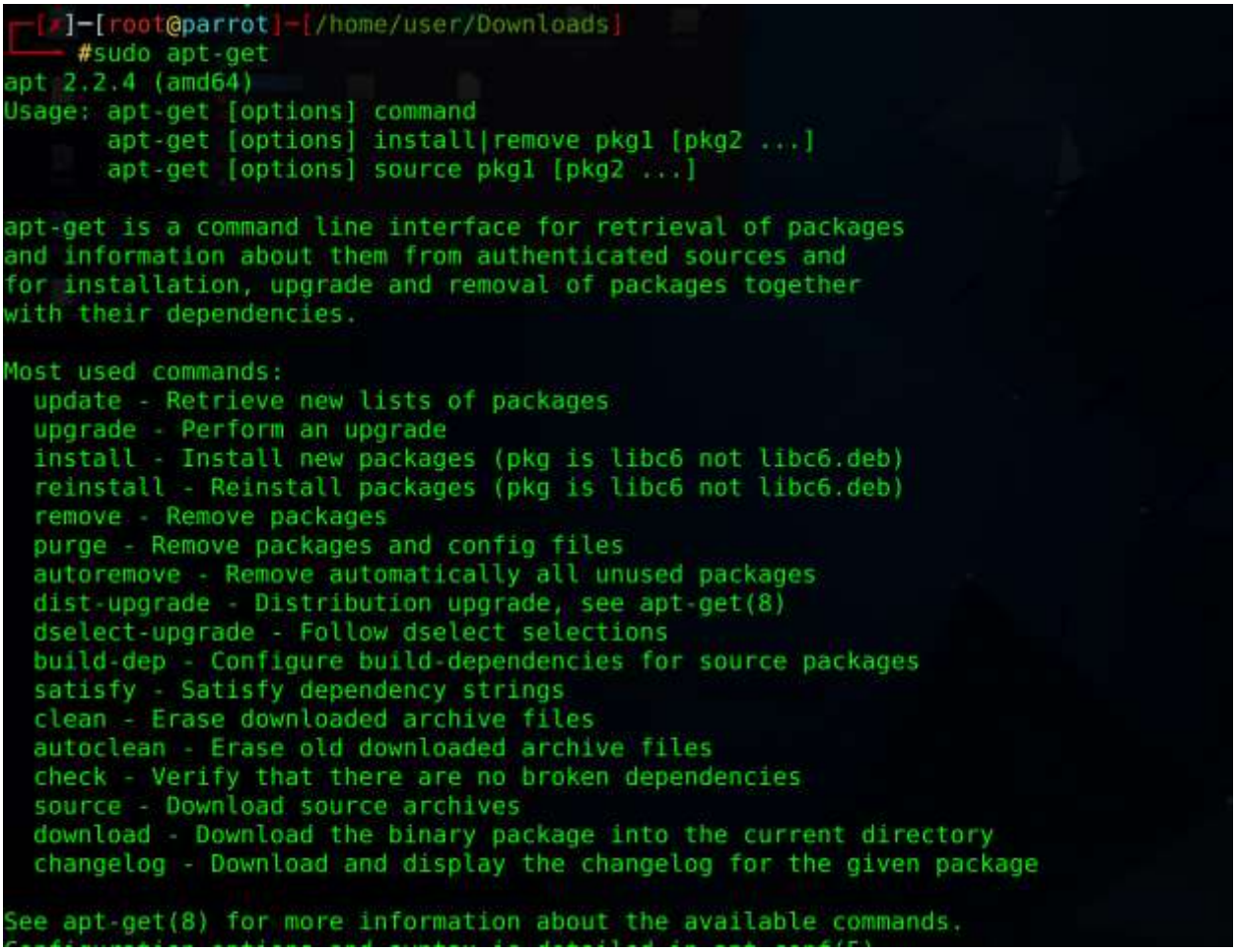
wget: Download files from the web



System Administration:

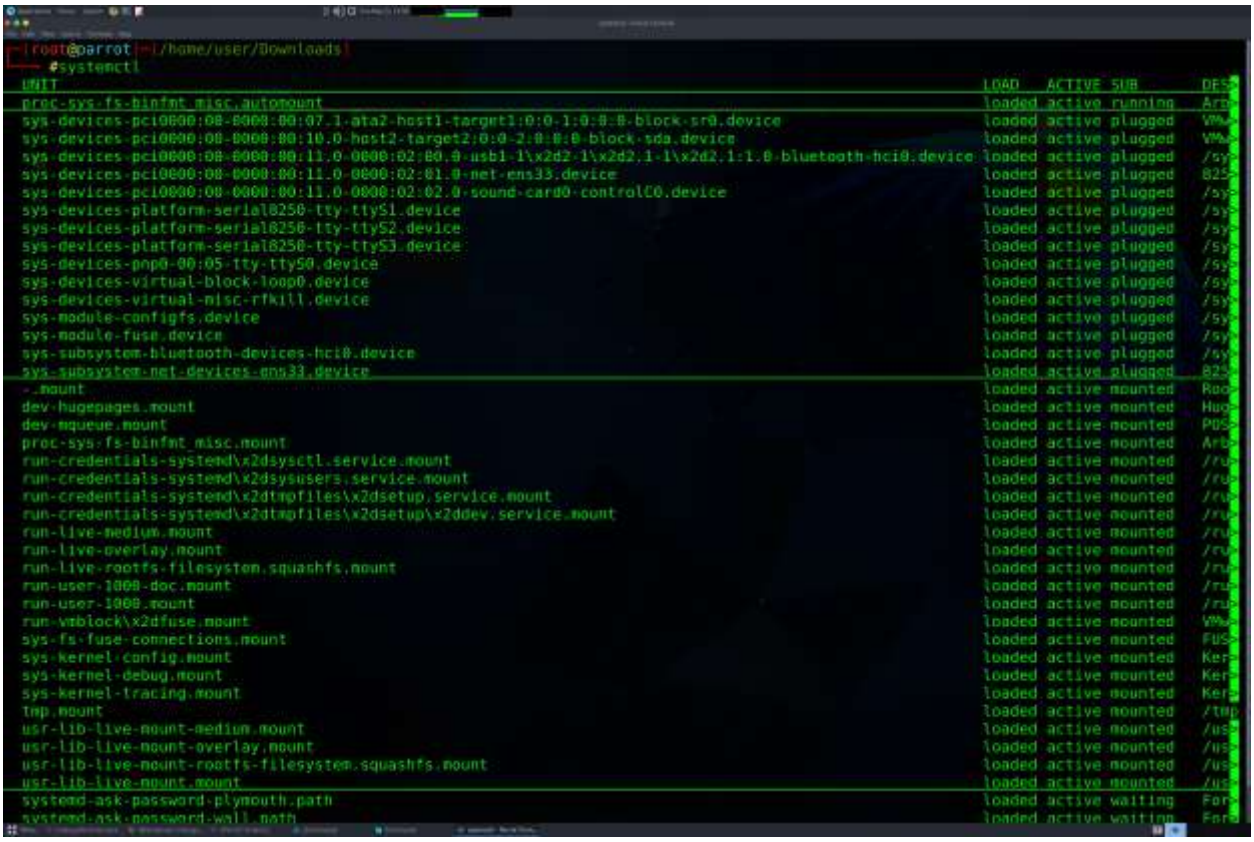
sudo: Execute commands with superuser privileges

apt-get: Package management for Debian-based distributions

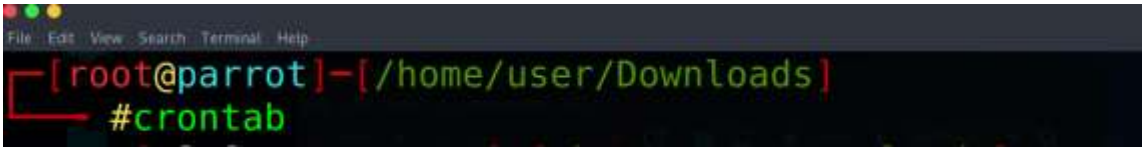


yum: Package management for Red Hat-based distributions

systemctl: Manage system services



crontab: Schedule recurring tasks



useradd: Add a new user

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