Mid exam

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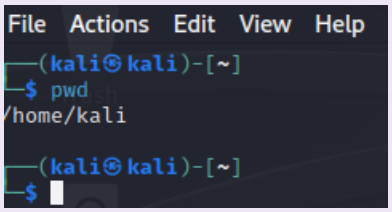
Section 1: File and Directory Management

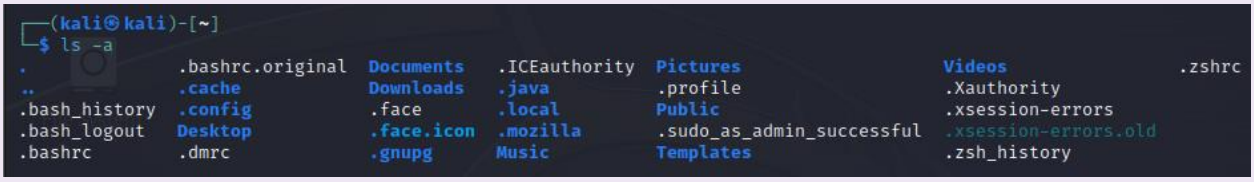
1. Display the current working directory.

   Pwd



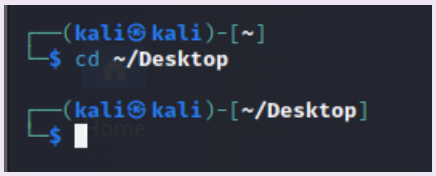
2. List all the contents of your current directory, including hidden files.

   ls -la



3. Change your directory to the `Desktop`.

   cd ~/Desktop

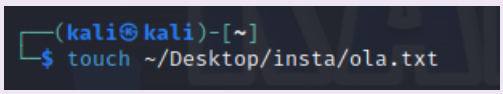


4. Create two directories named `dir1` and `dir2` on the Desktop.

   mkdir dir1 dir2

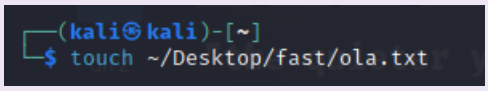
5. Inside `dir1`, create a file named `file1.txt`.

touch dir1/file1.txt



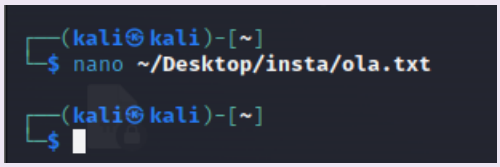
6. Inside `dir2`, create a file named `file2.txt`.

touch dir2/file2.txt



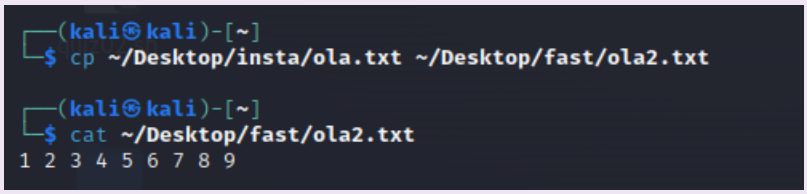
7. Using nano or vim Write the numbers 1 to 9 into `file1.txt`.

nano dir1/file1.txt



8. From the home directory Copy the contents of `file1.txt` into `file2.txt`.

cp dir1/file1.txt dir2/file2.txt



9. From the home directory, delete `file1.txt` inside `dir1`.

rm dir1/file.txt

```
┌──(kali㉿kali)-[~]
└─$ rm ~/Desktop/insta/ola.txt

┌──(kali㉿kali)-[~]
└─$ cd ~Desktop/insta
cd: no such file or directory: ~Desktop/insta

┌──(kali㉿kali)-[~]
└─$ cd ~/Desktop/insta

┌──(kali㉿kali)-[~/Desktop/insta]
└─$ ls

┌──(kali㉿kali)-[~/Desktop/insta]
└─$
```

10. Remove the directory `dir1` from the Desktop.

rmdir dir1

```
┌──(kali㉿kali)-[~]
└─$ cd ~/Desktop

┌──(kali㉿kali)-[~/Desktop]
└─$ rmdir insta

┌──(kali㉿kali)-[~/Desktop]
└─$ ls
dir1  dir1dir2  dir2  dirr1  dirr2  fast  quiz02.sh
```

11. Redirect the output of the network configuration command to a file named `network_info.txt` on the Desktop.

```
┌──(kali㉿kali)-[~]
└─$ ifconfig >~/Desktop/ola_2004.txt

┌──(kali㉿kali)-[~]
└─$ cat ~/Desktop/ola_2004.txt
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 192.168.83.128  netmask 255.255.255.0  broadcast 192.168.83.255
        inet6 fe80::6315:7564:33df:7eb  prefixlen 64  scopeid 0x20<link>
        ether 00:0c:29:37:54:af  txqueuelen 1000  (Ethernet)
        RX packets 1562  bytes 99297 (96.9 KiB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 49  bytes 7308 (7.1 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 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
```

12. Open the Desktop folder and show all files with detailed information.

```
┌──(kali㉿kali)-[~]
└─$ ls -l
total 32
drwxr-xr-x 5 kali kali 4096 Oct  1 11:52 Desktop
drwxr-xr-x 2 kali kali 4096 Jul 14 04:31 Documents
drwxr-xr-x 2 kali kali 4096 Jul 14 04:31 Downloads
drwxr-xr-x 2 kali kali 4096 Jul 14 04:31 Music
drwxr-xr-x 2 kali kali 4096 Oct  1 10:16 Pictures
drwxr-xr-x 2 kali kali 4096 Jul 14 04:31 Public
drwxr-xr-x 2 kali kali 4096 Jul 14 04:31 Templates
drwxr-xr-x 2 kali kali 4096 Jul 14 04:31 Videos
```

Section 2: Users and Groups Management

13. Create a new user with your name.

```
┌──(kali㉿kali)-[~]
└─$ sudo adduser olakh_2004
[sudo] password for kali:
info: Adding user `olakh_2004' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group `olakh_2004' (1004) ...
info: Adding new user `olakh_2004' (1004) with group `olakh_2004 (1004)' ...
info: Creating home directory `/home/olakh_2004' ...
info: Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for olakh_2004
Enter the new value, or press ENTER for the default
        Full Name []: ola khalid alshaqaqi
        Room Number []: 10000
        Work Phone []: 770000000
        Home Phone []: 250000
        Other []:
Is the information correct? [Y/n] y
info: Adding new user `olakh_2004' to supplemental / extra groups `users' ...
info: Adding user `olakh_2004' to group `users' ...
```

14. Set a password for your user.

```
┌──(kali㉿kali)-[~]
└─$ sudo passwd olakh_2004
New password:
Retype new password:
passwd: password updated successfully

┌──(kali㉿kali)-[~]
└─$
```

15. Open the file that contains user information and verify that your user has been added.

```
┌──(kali㉿kali)-[~]
└─$ cat /etc/passwd | grep olakh_2004
olakh_2004:x:1004:1004:ola khalid alshaqaqi,10000,770000000,250000:/home/olakh_2004:/bin/bash

┌──(kali㉿kali)-[~]
└─$
```

16. Add your user to the file that gives administrative privileges.

```
┌──(kali㉿kali)-[~]
└─$ sudo visudo
```

```
# User privilege specification
root    ALL=(ALL:ALL) ALL
olakh_2004 ALL=(ALL:ALL) ALL
# Allow members of group sudo to execute any command
%sudo   ALL=(ALL:ALL) ALL
```

```
┌──(kali㉿kali)-[~]
└─$ groups olakh_2004
olakh_2004 : olakh_2004 users
```

17. Switch to your user and confirm the user identity.

```
┌──(kali㉿kali)-[~]
└─$ su - olakh_2004
Password:
┌──(olakh_2004㉿kali)-[~]
└─$ whoami
olakh_2004

┌──(olakh_2004㉿kali)-[~]
└─$
```

18. Create a new group named `testgroup`

```
┌──(olakh_2004㉿kali)-[~]
└─$ sudo groupadd testgroup
[sudo] password for olakh_2004:
groupadd: group 'testgroup' already exists
```

19. Add your user to `testgroup`.

```
┌──(olakh_2004㉿kali)-[~]
└─$ sudo usermod -aG testgroup olakh_2004

┌──(olakh_2004㉿kali)-[~]
└─$ id olakh_2004
uid=1004(olakh_2004) gid=1004(olakh_2004) groups=1004(olakh_2004),100(users),1003(testgroup)
```

20. Add the group `testgroup` to the file that gives administrative privileges.

```
┌──(kali㉿kali)-[~]
└─$ sudo visudo
```

```
# User privilege specification
root    ALL=(ALL:ALL) ALL
olakh_2004 ALL=(ALL:ALL) ALL
# Allow members of group sudo to execute any command
%sudo   ALL=(ALL:ALL) ALL
%testgroup ALL=(ALL:ALL)ALL
# See sus(5) for more information on "@include" directives:

@includedir /etc/sudoers.d
testgroup      ALL=(ALL:ALL) ALL
```

21. Remove your user from the file that gives administrative privileges.

```
┌──(kali㉿kali)-[~]
└─$ sudo visudo
```

```
# User privilege specification
root    ALL=(ALL:ALL) ALL
#olakh_2004 ALL=(ALL:ALL) ALL
```

22. Check if your user still has administrative privileges.

```
┌──(olakh_2004㉿kali)-[~]
└─$ groups olakh_2004
olakh_2004 : olakh_2004 users testgroup
```

23. Check which groups your user belongs to.

```
ff02::1         ip6-allnodes
┌──(olakh_2004㉿kali)-[~]
└─$ groups
olakh_2004 users testgroup
```

Section 3: Permissions and Ownership

24. Set the permissions of `file2.txt` on the Desktop to allow the owner to read, write, and execute; the group to read and execute; and others to read.

```
┌──(kali㉿kali)-[~]
└─$ cd ~/Desktop

┌──(kali㉿kali)-[~/Desktop]
└─$ chmod u=wrx,g=rw,o=r ola.txt

┌──(kali㉿kali)-[~/Desktop]
└─$ chmod 754 ola.txt

┌──(kali㉿kali)-[~/Desktop]
└─$
```

25. Check the permissions of `file2.txt` to verify the change.

```
┌──(kali㉿kali)-[~/Desktop]
└─$ ls -l
total 20
drwxr-xr-x 2 kali kali 4096 Oct  1 12:24 dir2
drwxr-xr-x 2 kali kali 4096 Oct  1 10:21 fast
-rw-r--r-- 1 kali kali  874 Oct  1 11:52 ola_2004.txt
-rw-r--r-- 1 kali kali  876 Oct  1 12:37 olakh_2004.txt
-rwxr-xr-- 1 kali kali    0 Oct  1 17:33 ola.txt
-r-xr--r-- 1 kali kali 3846 Aug 27 10:28 quiz02.sh
```

26. Change the ownership of `file2.txt` to your user.

```
┌──(kali㉿kali)-[~/Desktop]
└─$ sudo chown okh ola.txt
[sudo] password for kali:

┌──(kali㉿kali)-[~/Desktop]
└─$ ls -l ola.txt
-rwxr-xr-- 1 okh kali 0 Oct  1 17:33 ola.txt

┌──(kali㉿kali)-[~/Desktop]
└─$
```

27. verify the ownership of `file2.txt`.

```
┌──(kali㉿kali)-[~/Desktop]
└─$ ls -l ola.txt
-rwxr-xr-- 1 okh kali 0 Oct  1 17:33 ola.txt
```

28. Change back the ownership of a file `file2.txt`.

```
┌──(kali㉿kali)-[~/Desktop]
└─$ sudo chown kali ola.txt
```

29. Grant writes permission to everyone for `file2.txt`.

```
┌──(kali㉿kali)-[~/Desktop]
└─$ chmod a+w ola.txt

┌──(kali㉿kali)-[~/Desktop]
└─$ ls -l ola.txt
-rwxrwxrw- 1 kali kali 0 Oct  1 17:33 ola.txt
```

30. Remove the write permission for the group and others for `file2.txt`.

```
┌──(kali㉿kali)-[~/Desktop]
└─$ sudo chmod go-w ola.txt

┌──(kali㉿kali)-[~/Desktop]
└─$ ls -l ola.txt
-rwxr-xr-- 1 kali kali 0 Oct  1 17:33 ola.txt
```

31. Delete `file2.txt` after making the necessary ownership and permission changes.

```
┌──(kali㉿kali)-[~/Desktop]
└─$ rm ola.txt

┌──(kali㉿kali)-[~/Desktop]
└─$ ls -l
total 20
drwxr-xr-x 2 kali kali 4096 Oct  1 12:24 dir2
drwxr-xr-x 2 kali kali 4096 Oct  1 10:21 fast
-rw-r--r-- 1 kali kali  874 Oct  1 11:52 ola_2004.txt
-rw-r--r-- 1 kali kali  876 Oct  1 12:37 olakh_2004.txt
-r-xr--r-- 1 kali kali 3846 Aug 27 10:28 quiz02.sh
```

32. What command would you use to recursively change the permissions of all files and directories inside a folder named `project` to `755`.

```
┌──(kali㉿kali)-[~/Desktop]
└─$ chmod -R 755 ~/Desktop
```

Section 4: Process Management

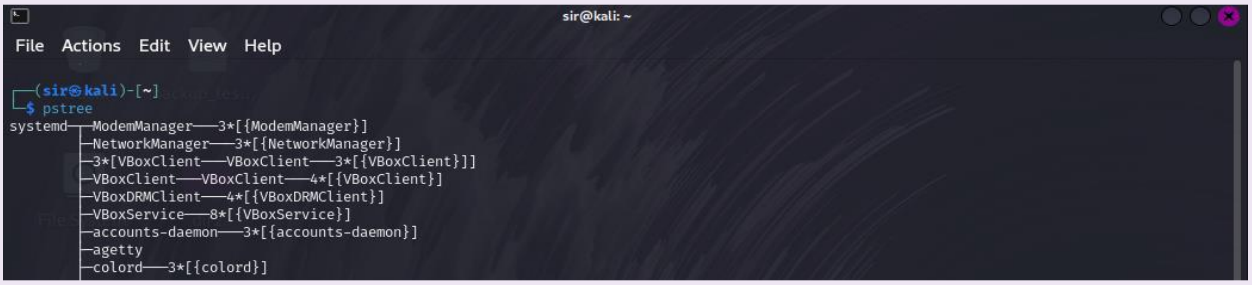
33. Install a system monitor tool that provides an interactive process viewer(htop).

```
┌──(sir㉿kali)-[~]
└─$ sudo apt install htop
htop is already the newest version (3.3.0-4).
Summary:
  Upgrading: 0, Installing: 0, Removing: 0, Not Upgrading: 425
```

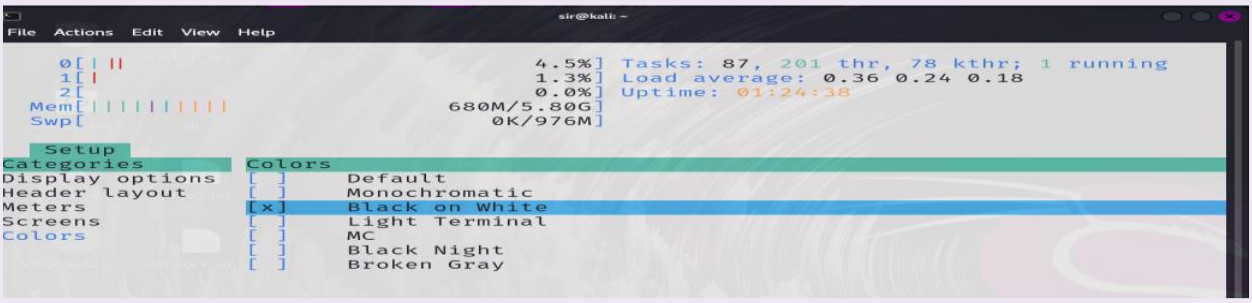
Display all running processes.

```
  0[||                                  1.9%] Tasks: 84, 198 thr, 78 kthr; 1 running
  1[|||                                 7.0%] Load average: 0.37 0.24 0.14
  2[|                                   0.6%] Uptime: 01:06:54
Mem[||||||||||                      666M/5.80G]
Swp[                                  0K/976M]

  Main   I/O
    PID USER       PRI  NI  VIRT   RES   SHR S  CPU%▽MEM%   TIME+  Command
  33605 sir         20   0  8580  4352  3200 R   3.2  0.1  0:00.19 htop
    863 root        20   0  428M   126M 56432 S   2.6  2.1  0:40.07 /usr/lib/xorg/Xorg
   1129 sir         20   0  210M  3204  2944 S   0.6  0.1  0:00.46 /usr/bin/VBoxClien
   1164 sir         20   0  579M 93824 73592 S   0.6  1.5  0:14.52 xfwm4 --display :0
   1221 sir         20   0  289M 56552 19328 S   0.6  0.9  0:11.90 /usr/lib/x86_64-li
   1223 sir         20   0  332M 29864 20724 S   0.6  0.5  0:18.21 /usr/lib/x86_64-li
   1266 sir         20   0  449M 42124 31780 S   0.6  0.7  0:00.64 /usr/lib/x86_64-li
  33494 sir         20   0  461M 99888 84676 S   0.6  1.6  0:00.37 /usr/bin/qterminal
      1 root        20   0 22600 13132  9804 S   0.0  0.2  0:01.34 /sbin/init splash
    360 root        20   0 51416 16624 15360 S   0.0  0.3  0:00.29 /usr/lib/systemd/s
    402 root        20   0 29336  7768  4952 S   0.0  0.1  0:00.17 /usr/lib/systemd/s
    458 root        20   0  8276  7456  1664 S   0.0  0.1  0:00.30 /usr/sbin/haveged
    579 root        20   0  304M  9272  6600 S   0.0  0.2  0:00.06 /usr/libexec/accou
    580 root        20   0  7048  2560  2304 S   0.0  0.0  0:00.01 /usr/sbin/cron -f
    581 messagebus  20   0 10740  5888  4224 S   0.0  0.1  0:02.15 /usr/bin/dbus-daem
    583 polkitd     20   0  375M  9992  7476 S   0.0  0.2  0:00.20 /usr/lib/polkit-1/
    584 root        20   0 19052  8704  7680 S   0.0  0.1  0:00.11 /usr/lib/systemd/s
    605 root        20   0  304M  9272  6600 S   0.0  0.2  0:00.00 /usr/libexec/accou
    606 root        20   0  304M  9272  6600 S   0.0  0.2  0:00.00 /usr/libexec/accou
    620 root        20   0  304M  9272  6600 S   0.0  0.2  0:00.01 /usr/libexec/accou
    628 root        20   0  328M 23144 18276 S   0.0  0.4  0:00.13 /usr/sbin/NetworkM
    636 polkitd     20   0  375M  9992  7476 S   0.0  0.2  0:00.00 /usr/lib/polkit-1/
    637 polkitd     20   0  375M  9992  7476 S   0.0  0.2  0:00.00 /usr/lib/polkit-1/
F1Help  F2Setup F3SearchF4FilterF5Tree  F6SortByF7Nice -F8Nice +F9Kill  F10Quit
```

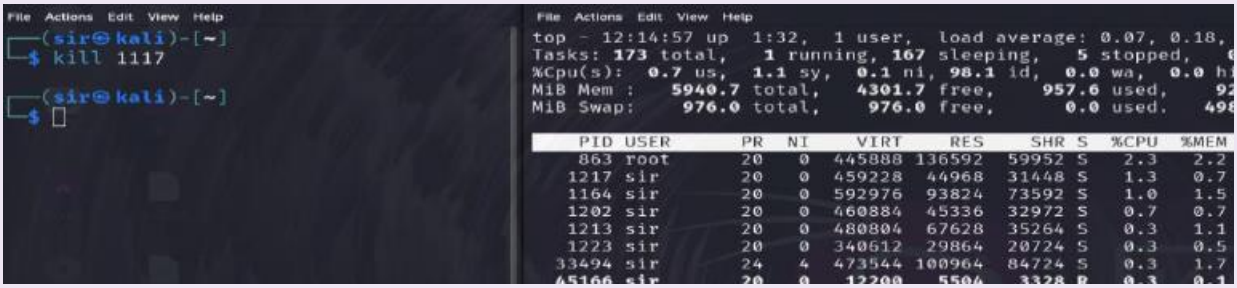
34. Display a tree of all running processes.



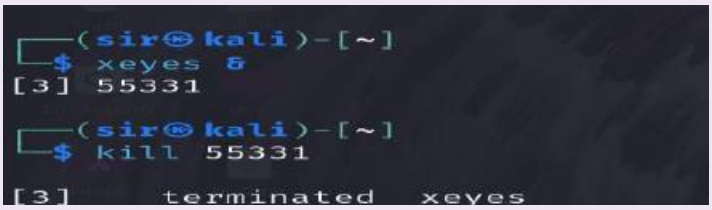
35. Open the interactive process viewer and identify a process by its PID.



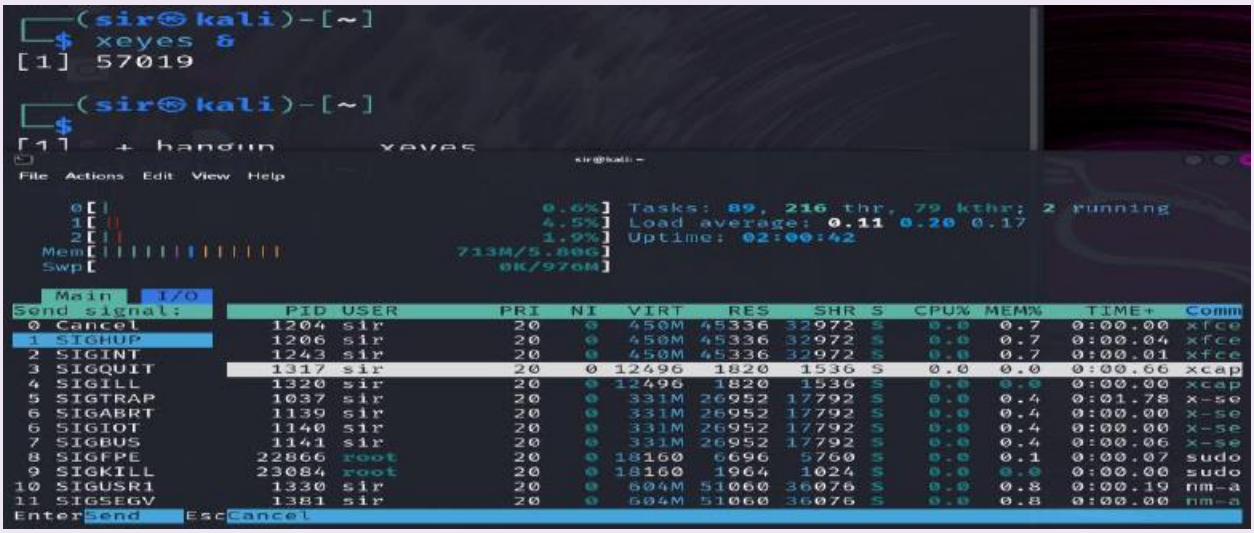
36. Kill a process with a specific PID.



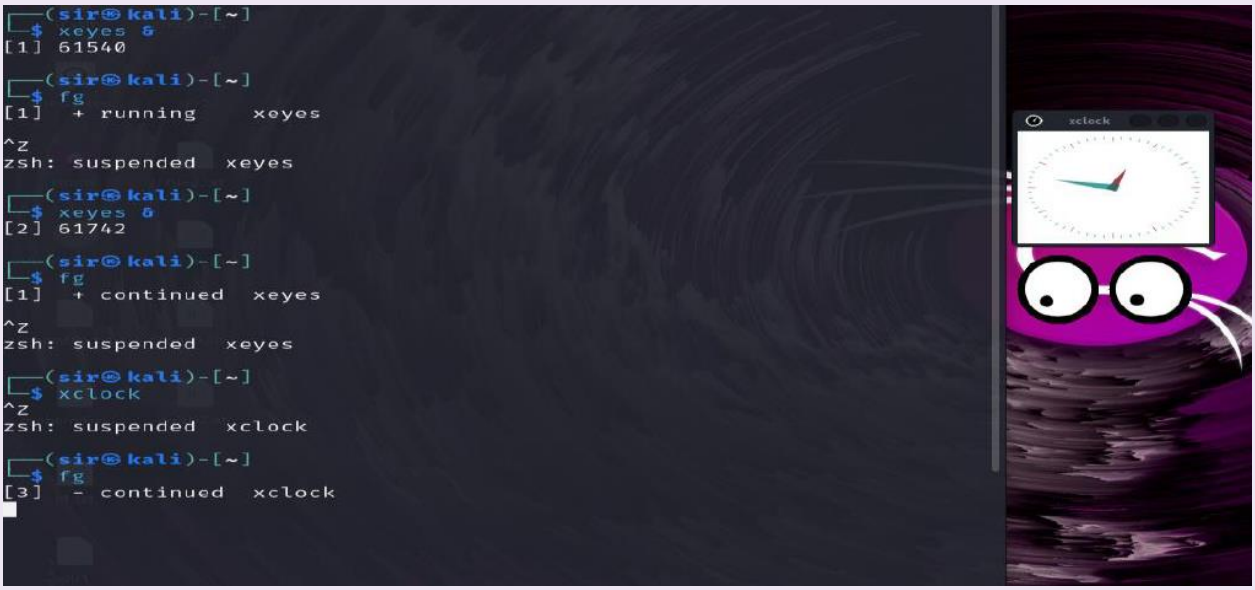
37. Start an application and stop it using a command that kills processes by name(exeyes).



38. Restart the application, then stop it using the interactive process viewer.



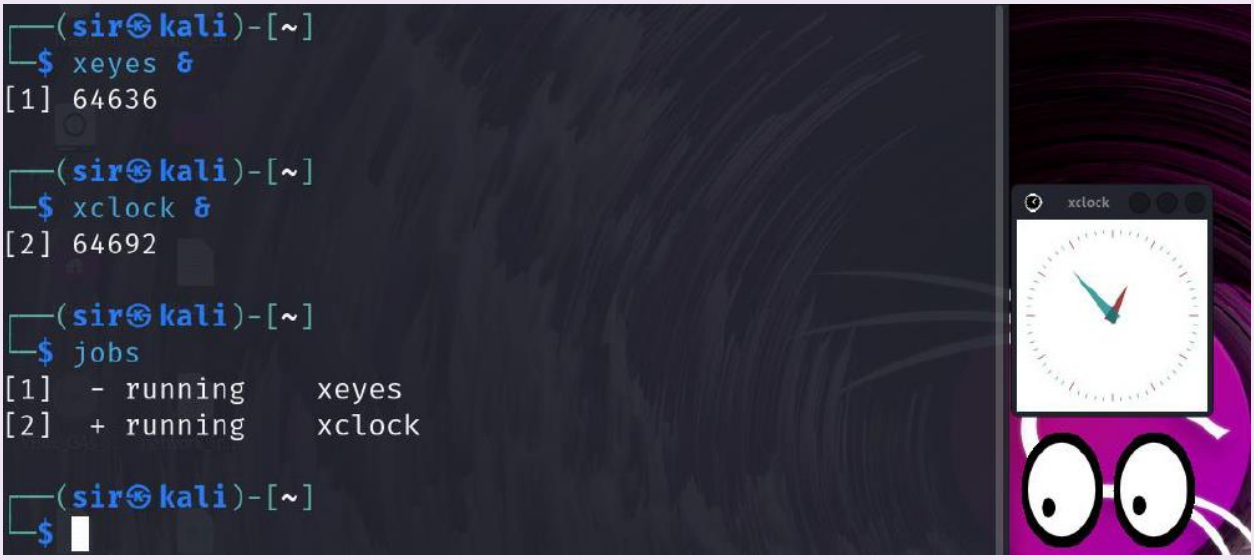
39. Run a command in the background, then bring it to the foreground(exeyes).



40. Check how long the system has been running.

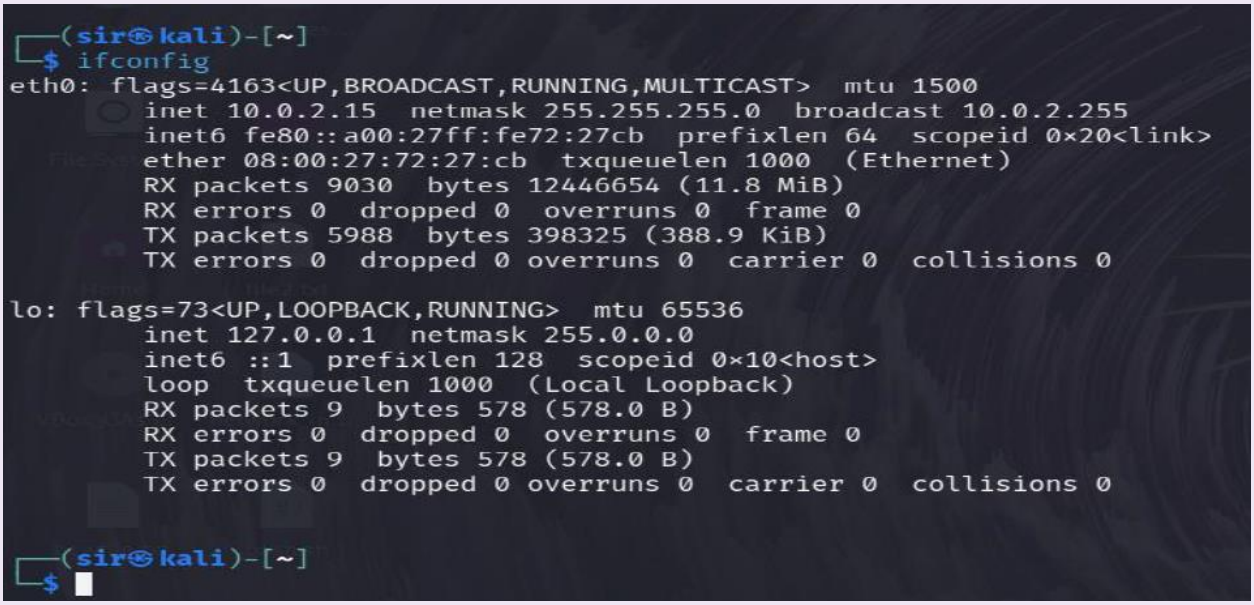
```
┌──(sir㉿kali)-[~]
└─$ uptime
 12:50:24 up  2:07,  1 user,  load average: 0.03, 0.12, 0.15

┌──(sir㉿kali)-[~]
└─$
```

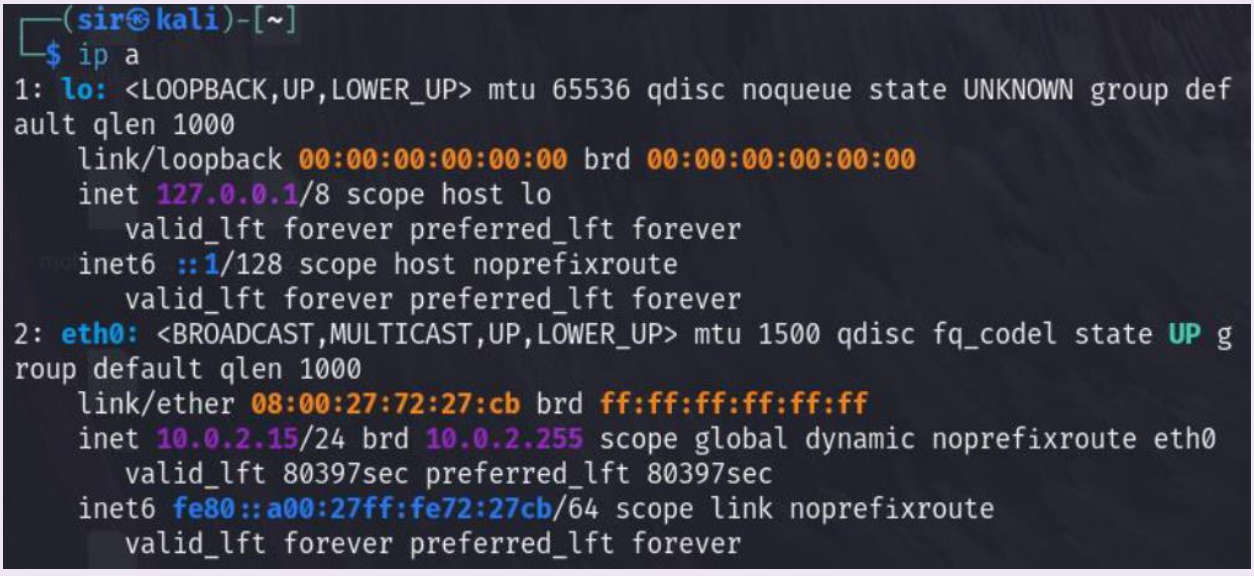
41. List all jobs running in the background.



Section 5: Networking Commands

42. Display the network configuration.





43. Check the IP address of your machine.

```
┌──(sir㉿kali)-[~]
└─$ hostname -I
10.0.2.15

┌──(sir㉿kali)-[~]
└─$ ip addr show
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group def
ault qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
       valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP g
roup default qlen 1000
    link/ether 08:00:27:72:27:cb brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute eth0
       valid_lft 80235sec preferred_lft 80235sec
    inet6 fe80::a00:27ff:fe72:27cb/64 scope link noprefixroute
       valid_lft forever preferred_lft forever
```

44. Test connectivity to an external server.

```
┌──(sir㉿kali)-[~]
└─$ ping example.com
PING example.com (93.184.215.14) 56(84) bytes of data.
64 bytes from 93.184.215.14: icmp_seq=1 ttl=53 time=808 ms
64 bytes from 93.184.215.14: icmp_seq=2 ttl=53 time=301 ms
64 bytes from 93.184.215.14: icmp_seq=3 ttl=53 time=210 ms
64 bytes from 93.184.215.14: icmp_seq=4 ttl=53 time=233 ms
64 bytes from 93.184.215.14: icmp_seq=5 ttl=53 time=253 ms
64 bytes from 93.184.215.14: icmp_seq=6 ttl=53 time=302 ms
64 bytes from 93.184.215.14: icmp_seq=7 ttl=53 time=277 ms
64 bytes from 93.184.215.14: icmp_seq=8 ttl=53 time=195 ms
64 bytes from 93.184.215.14: icmp_seq=9 ttl=53 time=233 ms
64 bytes from 93.184.215.14: icmp_seq=10 ttl=53 time=248 ms
64 bytes from 93.184.215.14: icmp_seq=11 ttl=53 time=284 ms
64 bytes from 93.184.215.14: icmp_seq=12 ttl=53 time=295 ms
```

45. Display the routing table.

```
┌──(sir㉿kali)-[~]
└─$ ip route show
default via 10.0.2.2 dev eth0 proto dhcp src 10.0.2.15 metric 100
10.0.2.0/24 dev eth0 proto kernel scope link src 10.0.2.15 metric 100

┌──(sir㉿kali)-[~]
└─$
```

46. Check the open ports and active connections.

```
┌──(sir㉿kali)-[~]
└─$ netstat -tuln
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State


┌──(sir㉿kali)-[~]
└─$ ss -tuln
Netid  State   Recv-Q   Send-Q     Local Address:Port     Peer Address:Port
```

47. Show the IP address of the host machine and the VM, and verify if they are on the same network.

```
┌──(sir㉿kali)-[~]
└─$ hostname -I
10.0.2.15
```

```
C:\Program Files (x86)\VMware\VMware Workstation\bin>ping 10.0.2.15

Pinging 10.0.2.15 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 10.0.2.15:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

48. Trace the route to an external server.

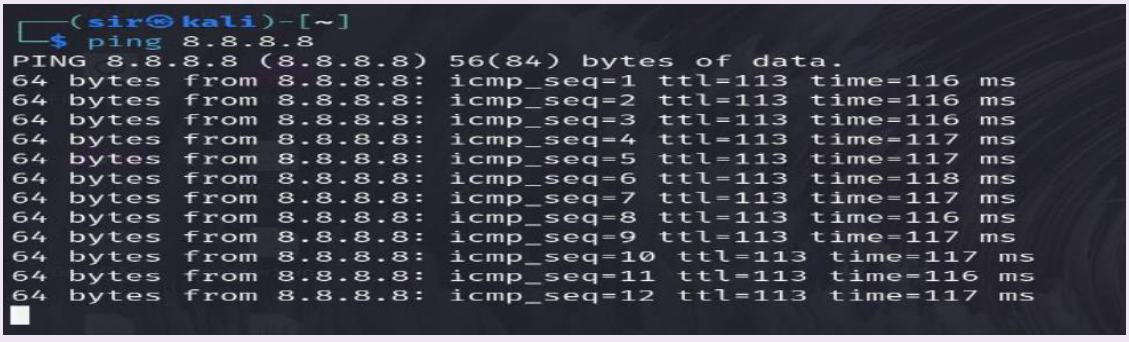
```
┌──(sir㉿kali)-[~]
└─$ traceroute 10.0.2.1
traceroute to 10.0.2.1 (10.0.2.1), 30 hops max, 60 byte packets
 1  10.0.2.15 (10.0.2.15)  3069.837 ms !H  3069.779 ms !H  3069.724 ms !H

┌──(sir㉿kali)-[~]
└─$ traceroute example.com
traceroute to example.com (93.184.215.14), 30 hops max, 60 byte packets
 1  10.0.2.2 (10.0.2.2)  0.988 ms  0.934 ms  0.887 ms
 2  10.0.2.2 (10.0.2.2)  17.897 ms  17.812 ms  17.888 ms
```

49. Find out the default gateway

50. Check the MAC address of your network interface.

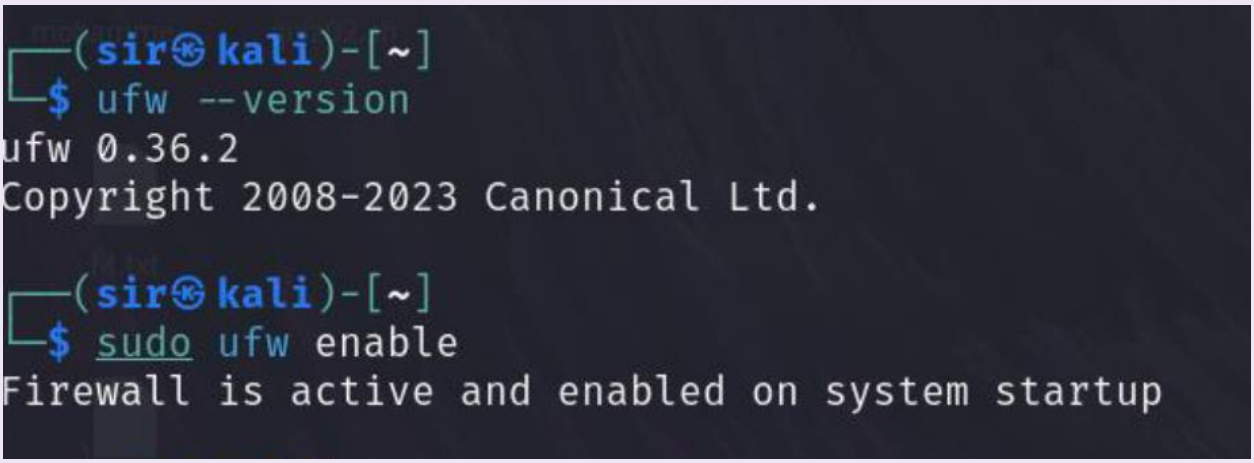
51. Ensure that the VM can access external networks.

52. Ensure that the VM can access external networks.

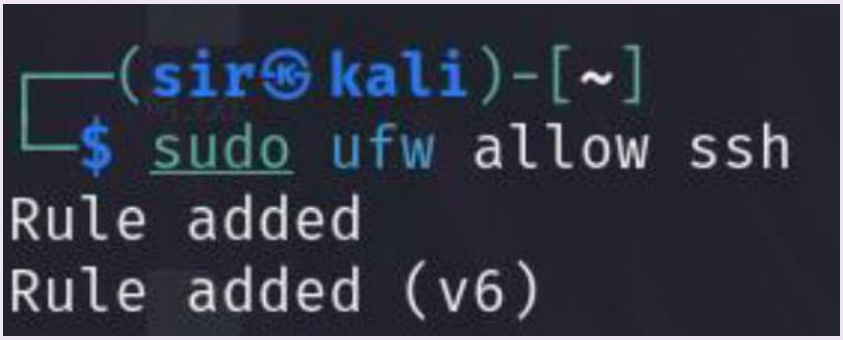


Section 6: UFW Firewall

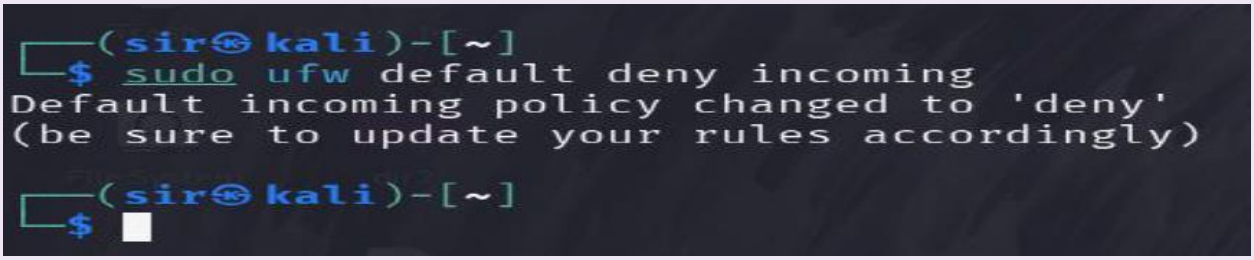
53. Enable the firewall.



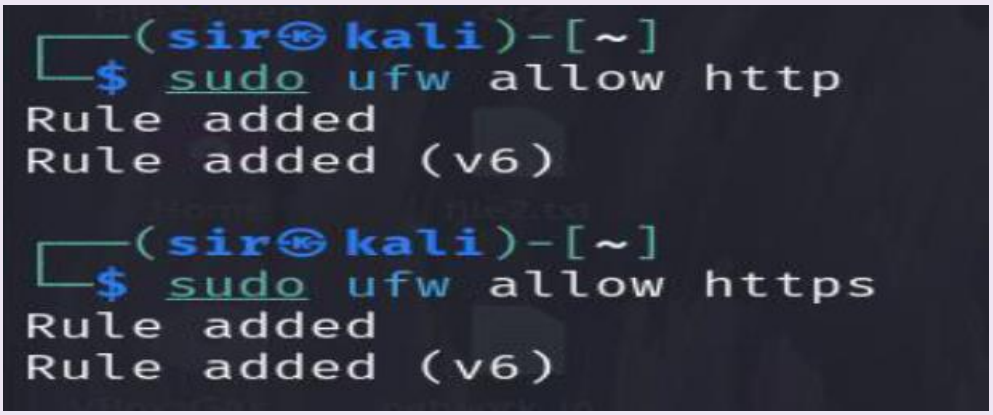
54. Allow SSH connections through the firewall.



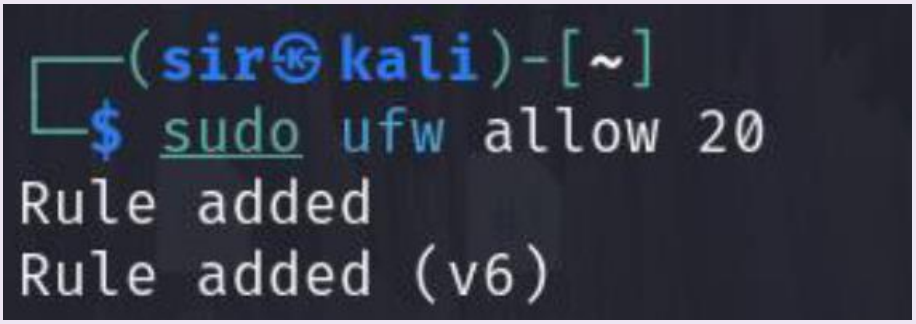
55. Deny all incoming traffic by default.



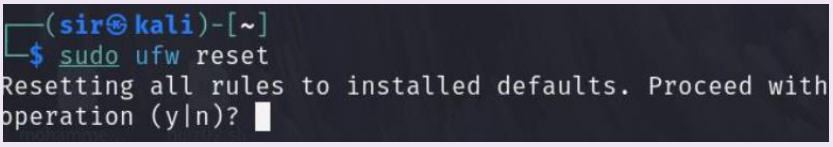
56. Allow HTTP and HTTPS traffic.



57. Allow port 20



58. Reset the firewall settings.



59. Delete a rule from the firewall.

60. Disable the firewall.

```
┌──(sir㉿kali)-[~]
└─$ sudo ufw disable
```

61. View the status of the firewall.

```
┌──(sir㉿kali)-[~]
└─$ sudo ufw status
```

62. Log firewall activity and view it.

```
┌──(sir㉿kali)-[~]
└─$ sudo ufw logging on
```

Section 7: Searching and System Information

63. Delete the command history.

```
┌──(sir㉿kali)-[~/Desktop]
└─$ history -c
fc: event not found: -c
```

64. Search for a kali in the `/etc/passwd` file.

```
└─$ grep -i 'kali' /etc/passwd
kali:x:1000:1000:,,,:/home/kali:/usr/bin/zsh

┌──(kali㉿kali)-[~/Desktop]
└─$ grep 'kali' /etc/passwd
kali:x:1000:1000:,,,:/home/kali:/usr/bin/zsh

┌──(kali㉿kali)-[~/Desktop]
└─$ grep -n 'kali' /etc/passwd
57:kali:x:1000:1000:,,,:/home/kali:/usr/bin/zsh
```

65. Search for a kali in the `/etc/group` file.

```
┌──(sir㉿kali)-[~/Desktop]
└─$ grep kali /etc/group
kali-trusted:x:135:
```

66. Locate the `passwd` file.

```
┌──(sir㉿kali)-[~/Desktop]
└─$ which passwd
/usr/bin/passwd
```

67. Locate the shadow file and open it.

```
┌──(sir㉿kali)-[~/Desktop]
└─$ sudo cat /etc/shadow
root:!:19882:0:99999:7:::
daemon:*:19882:0:99999:7:::
bin:*:19882:0:99999:7:::
sys:*:19882:0:99999:7:::
sync:*:19882:0:99999:7:::
```

68. Search for all configuration files in the `/etc` directory.

```
┌──(sir㉿kali)-[~/Desktop]
└─$ find /etc -type f -name "*.conf"
/etc/mke2fs.conf
/etc/smartd.conf
/etc/miredo.conf
```

69. Search recursively for a specific word in the `/var/log` directory.

```
┌──(sir㉿kali)-[~/Desktop]
└─$ grep -r "var" /var/log
/var/log/Xorg.0.log.old:[     7.181] (==) Log file: "/va
```

70. View the system's kernel version.

```
┌──(sir㉿kali)-[~/Desktop]
└─$ uname -r
6.6.15-amd64
```

71. Display the system's memory usage.

```
┌──(sir㉿kali)-[~/Desktop]
└─$ free -h
               total        used        free      shared  buff/cache   available
Mem:           5.8Gi       1.0Gi       3.9Gi       9.4Mi       1.2Gi       4.8Gi
Swap:          975Mi          0B       975Mi
```

72. Show the system's disk usage.

```
┌──(sir㉿kali)-[~/Desktop]
└─$ df -h
Filesystem      Size  Used Avail Use% Mounted on
udev            2.9G     0  2.9G   0% /dev
tmpfs           595M  1.1M  594M   1% /run
/dev/sda1        49G   15G   32G  32% /
tmpfs           3.0G     0  3.0G   0% /dev/shm
```

73. Check the system's uptime and load average.

```
┌──(sir㉿kali)-[~/Desktop]
└─$ uptime
14:54:32 up  4:11,  1 user,  load average: 0.00, 0.03, 0.01
```

74. Display the current logged-in users.

```
┌──(sir㉿kali)-[~/Desktop]
└─$ who
sir      tty7         2024-09-01 10:43 (:0)
sir      pts/1        2024-09-01 11:28
sir      pts/3        2024-09-01 14:18
sir      pts/4        2024-09-01 14:20
sir      pts/5        2024-09-01 14:22
sir      pts/6        2024-09-01 14:29
sir      pts/7        2024-09-01 14:30
sir      pts/8        2024-09-01 14:31
sir      pts/9        2024-09-01 14:33
sir      pts/10       2024-09-01 14:34
```

75. Check the identity of the current user.

```
┌──(sir㉿kali)-[~/Desktop]
└─$ whoami
sir
```

76. View the `/var/log/auth.log` file.

```
┌──(sir㉿kali)-[~/Desktop]
└─$ sudo less /var/log/auth.log
/var/log/auth.log: No such file or directory
```

77. Shred the `auth.log` file securely.

```
┌──(sir㉿kali)-[~/Desktop]
└─$ sudo shred -u /var/log/auth.log
```

78. How do you lock a user account to prevent them from logging in.

```
┌──(sir㉿kali)-[~/Desktop]
└─$ sudo usermod -L sir
```

79. What command would you use to change a user's default shell.

```
┌──(sir㉿kali)-[~/Desktop]
└─$ sudo chsh -s /bin/bash sir
```

80. Display the system's boot messages.

```
    0.000000] Linux version 6.6.15-amd64 (devel@kali.org) (gcc-13 (Debian 13.2.0
24) 13.2.0, GNU ld (GNU Binutils for Debian) 2.42) #1 SMP PREEMPT_DYNAMIC Kali 6
6.15-2kali1 (2024-05-17)
    0.000000] Command line: BOOT_IMAGE=/boot/vmlinuz-6.6.15-amd64 root=UUID=87d2
760-2ba2-47f1-965c-12ab19f8ce3c ro quiet splash
    0.000000] [Firmware Bug]: TSC doesn't count with P0 frequency!
    0.000000] BIOS-provided physical RAM map:
    0.000000] BIOS-e820: [mem 0x0000000000000000-0x000000000009fbff] usable
    0.000000] BIOS-e820: [mem 0x000000000009fc00-0x000000000009ffff] reserved
    0.000000] BIOS-e820: [mem 0x00000000000f0000-0x00000000000fffff] reserved
    0.000000] BIOS-e820: [mem 0x0000000000100000-0x00000000dffeffff] usable
    0.000000] BIOS-e820: [mem 0x00000000dfff0000-0x00000000dfffffff] ACPI data
    0.000000] BIOS-e820: [mem 0x00000000fec00000-0x00000000fec00fff] reserved
    0.000000] BIOS-e820: [mem 0x00000000fee00000-0x00000000fee00fff] reserved
    0.000000] BIOS-e820: [mem 0x00000000fffc0000-0x00000000ffffffff] reserved
    0.000000] BIOS-e820: [mem 0x0000000100000000-0x00000001a07fffff] usable
    0.000000] NX (Execute Disable) protection: active
    0.000000] APIC: Static calls initialized
    0.000000] SMBIOS 2.5 present.
    0.000000] DMI: innotek GmbH VirtualBox/VirtualBox, BIOS VirtualBox 12/01/200

    0.000000] Hypervisor detected: KVM
    0.000000] kvm-clock: Using msrs 4b564d01 and 4b564d00
    0.000002] kvm-clock: using sched offset of 9922726103 cycles
    0.000005] clocksource: kvm-clock: mask: 0xffffffffffffffff max_cycles: 0x1cd
2e4dffb, max_idle_ns: 881590591483 ns
    0.000007] tsc: Detected 2295.686 MHz processor
    0.001263] e820: update [mem 0x00000000-0x00000fff] usable ==> reserved
    0.001266] e820: remove [mem 0x000a0000-0x000fffff] usable
    0.001271] last_pfn = 0x1a0800 max_arch_pfn = 0x400000000
    0.001281] MTRRs disabled by BIOS
    0.001283] x86/PAT: Configuration [0-7]: WB  WC  UC- UC  WB  WP  UC- WT
    0.001304] last_pfn = 0xdfff0 max_arch_pfn = 0x400000000
    0.001327] found SMP MP-table at [mem 0x0009fff0-0x0009ffff]
    0.001620] RAMDISK: [mem 0x2e8a3000-0x33448fff]
og file: S
```

عمل الطالبة/ غلا خالد عبد الوهاب الشقاقي التخصص/الامن السيبراني

المجموعة/الخامسة عملي

م/عبد الرزاق السماوي