Section 1: File and Directory Management:

1. Display the current working directory.

```
(pp⊕ pp)-[~]
/home/pp
(pp⊕ pp)-[~]

$\tilde{pp}$
```

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

3. Change your directory to the 'Desktop'.

```
(pp⊕ pp)-[~]

$ cd ~/Desktop

—(pp⊕ pp)-[~/Desktop]
```

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

```
(pp@ pp)-[~/Desktop/000]
$ mkdir dir1 dir2

(pp@ pp)-[~/Desktop/000]
$ ls
dir1 dir2
```

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

```
(pp@ pp)-[~/Desktop/000]
$ touch dir1/file1.txt

(pp@ pp)-[~/Desktop/000]
$ cd dir1

(pp@ pp)-[~/Desktop/000/dir1]
$ ls
file1.txt
```

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

```
(pp@ pp)-[~/Desktop/000]
$ touch dir2/file2.txt

(pp@ pp)-[~/Desktop/000]
$ cd dir2

(pp@ pp)-[~/Desktop/000/dir2]
$ ls
file2.txt
```

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

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

```
(pp® pp)-[~/Desktop/000]
$ cp dir1/file1.txt dir2/file2.txt

(pp® pp)-[~/Desktop/000]
$ cat dir2/file2.txt

1
2
3
4
5
6
7
8
9
```

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

```
(pp® pp)-[~/Desktop/000/dir1]
$ rm file1.txt

(pp@ pp)-[~/Desktop/000/dir1]
$ ls

(pp® pp)-[~/Desktop/000/dir1]
```

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

```
(pp@ pp)-[~/Desktop/000]
$ rmdir dir1

(pp@ pp)-[~/Desktop/000]
$ ls
dir2

(pp@ pp)-[~/Desktop/000]
```

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

```
(pp⊕ pp)-[~/Desktop/000]
$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.179.128 netmask 255.255.255.0 broadcast 192.168.17
    inet6 fe80::20c:29ff:feaa:f76b prefixlen 64 scopeid 0×20<link>
    ether 00:0c:29:aa:f7:6b txqueuelen 1000 (Ethernet)
    RX packets 9067 bytes 1022990 (999.0 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 6091 bytes 529968 (517.5 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
```

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

```
–(pp᠖pp)-[~/Desktop]
otal 44
rwxr-xr-x
                4 pp
                                     4096 Sep 3 15:08
                           pp
               25 pp
                                     4096 Sep
lrwx—
                           pp
rwxr-xr-x
                    pр
                                     4096 Sep
                3 pp pp 4096 Aug 30 12:43 Cam-Dumper

1 pp pp 12 Aug 4 05:49 file

1 root pp 20 Aug 4 15:39 file1

1 root root 10237 Jul 4 08:35 game.apk

1 pp pp 710 Aug 18 14:19 network_inf
rwx --- r --
rwxr--r-x
rw-r--r--
rw-r--r--
                                     3643 Aug 25 02:34 quiz02.sh
                            pp
                    pp
 w-r--r--
                                          0 Aug 30 12:41 tesdir
```

Section 2: Users and Groups Management:

13. Create a new user with your name.

```
—(pp⊛ pp)-[~/Desktop]
—$ <u>sudo</u> useradd user
```

14. Set a password for your user.

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

```
(pp⊕ pp)-[~/Desktop]

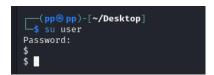
$ sudo cat /etc/passwd
root:x:0:0:root:/root:/usr/bin/zsh
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nolo
pin:x:2:2:bin:/bin:/usr/sbin/nologin
```

ass:x:1003:1004::/home/ass:/bin/sh ebr:x:1004:1006::/home/ebr:/bin/sh omar:x:1005:1008::/home/omar:/bin/sh user:x:1006:1009::/home/user:/bin/sh

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



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



18. Create a new group named 'testgroup'.

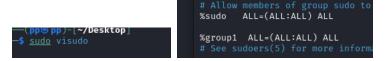
```
(pp⊛ pp)-[~/Desktop]

$ sudo groupadd group1
```

19. Add your user to 'testgroup'.

```
(pp⊕pp)-[~/Desktop]
$ <u>sudo</u> gpasswd -a user group1
Adding user user to group group1
```

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



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

```
(pp@pp)-[~/Desktop]
$\frac{\sudo}{\sudo} \text{gpasswd -d user group1}

Removing user user from group group1
```

22. Check if your user still have administrative privileges.

```
(pp⊕ pp)-[~/Desktop]

$ groups user

user : user
```

23. Check which groups your user belongs to.

```
(pp⊕ pp)-[~/Desktop]
$ groups
pp adm dialout cdrom floppy sudo audio o
```

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 .

```
(pp⊕pp)-[~/Desktop/000/dir2]
$ chmod 755 file2.txt

(pp⊕pp)-[~/Desktop/000/dir2]
$ ls -l
total 4
-rwxr-xr-x 1 pp pp 19 Sep 3 15:17 file2.txt
```

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

```
(pp⊕pp)-[~/Desktop/000/dir2]

$ ls -l

total 4

-rwxr-xr-x 1 pp pp 19 Sep 3 15:17 file2.txt
```

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

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

```
(pp⊕ pp)-[~/Desktop/000/dir2]

$ ls -l

total 4

-rwxr-xr-x 1 user2 pp 19 Sep 3 15:17 file2.txt
```

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

```
(pp⊕ pp)-[~/Desktop/000/dir2]

$ ls -|
total 4
-rwxr-xr-x 1 user2 pp 19 Sep 3 15:17 file2.txt
```

29. Grant write permission to everyone for 'file2.txt'.

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

```
--(pp® pp)-[~/Desktop/000/dir2]
-$ chmod 644 file2.txt
--(pp® pp)-[~/Desktop/000/dir2]
-$ ls -l
otal 4
rw-r--r-- 1 pp pp 19 Sep 3 15:17 file2.txt
```

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

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

```
— (pp pp)-[~/Desktop/one]

-$ ls -l
otal 0
rw-r--r- 1 pp pp 0 Sep 7 16:38 project

— (pp pp)-[~/Desktop/one]

-$ chmod -R 755 project

— (pp pp)-[~/Desktop/one]

-$ ls -l
otal 0
rwxr-xr-x 1 pp pp 0 Sep 7 16:38 project
```

Section 4: Process Management:

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

```
(pp⊕ pp)-[~/Desktop/000/dir2]
$\frac{\sudo}{\sudo} \text{apt-get} \text{ install htop}$

Reading package lists ... Done

Building dependency tree ... Done

Reading state information ... Done

htop is already the newest version (3.3.0-4).

The following packages were automatically installed and are no l
libnsl-dev libpthread-stubs0-dev libtirpc-dev python3-cryptogr
python3-requests-toolbelt

Use 'sudo apt autoremove' to remove them.

0 upgraded, 0 newly installed, 0 to remove and 1669 not upgraded
```

34. Display all running processes.

```
(pp® pp)-[~/Desktop/000/dir2]
$ ps aux
USER PID %CPU %MEM VSZ RSS TTY STAT
root 1 0.0 0.3 168404 12404 ? Ss
root 2 0.0 0.0 0 0 ? S
root 3 0.0 0.0 0 0 ? I<
root 4 0.0 0.0 0 0 ? I<
```

35. Display a tree of all running processes.

```
-(pp:pp)-[~/Desktop/000/dir2]
_s pstree
          -ModemManager---2*[{ModemManager}]
         -NetworkManager--2*[{NetworkManager}]
         -agettv
          -colord---2*[{colord}]
          -cron
          -dbus-daemon
          -haveged
          -lightdm
                     -Xorg----{Xorg}
                    -lightdm-
                               -xfce4-session
                                                -agent—
                                                -blueman-ap
                                                 -light-locke
```

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



37. Kill a process with a specific PID.





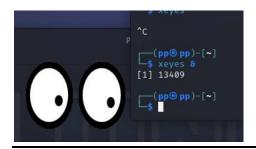
38. Start an application and stop it using a command that kills processes by name(exeyes).



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

نحدد على العملية الذي نريد ايقافها ونقوم بضغط على F9

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



41. Check how long the system has been running.

```
(pp⊕ pp)-[~]
_$ uptime
16:59:44 up 2:14, 1 user, load average: 0.44, 0.52, 0.55

—(pp⊕ pp)-[~]
```

42. List all jobs running in the background.

```
–(pp❸ pp)-[~]
USER
                  PID %CPU %MEM
                                                                     STAT START
                                                                                       TIME COMMAND
                              %MEM V32
0.3 102904 12268 ?
0.0 0 0 ?
0.0 0 0 ?
                                                                                      0:01 /sbin/init splash
0:00 [kthreadd]
                        0.0
                        0.0
                                                                                      0:00 [rcu_gp]
0:00 [rcu_par_gp]
0:00 [slub_flushwq]
0:00 [netns]
root
                       0.0 0.0
                                                                           16:31
                               0.0
root
                        0.0
                                            0
                                                                           16:31
                        0.0
                               0.0
                                                                           16:31
root
                        0.0
                               0.0
root
root
                               0.0
                                                                                              [kworker/0:0H-eve
                                                     0 ?
0 ?
0 ?
                                                                                       0:00 [mm_percpu_wq]
root
                        0.0
                               0.0
                                             0
0
                                                                           16:31
                                                                                      0:00
                                                                                              [rcu_tasks_kthrea
root
                        0.0
                                0.0
                                                                           16:31
                                                                                      0:00 [rcu_tasks_rude_k
0:00 [rcu tasks trace
```

Section 5: Networking Commands:

43. Display the network configuration.

```
(pp⊕ pp)-[~/Desktop/000]
$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.179.128 netmask 255.255.255.0 broadcast 192.168.17
    inet6 fe80::20c:29ff:feaa:f76b prefixlen 64 scopeid 0×20<link>
    ether 00:0c:29:aa:f7:6b txqueuelen 1000 (Ethernet)
    RX packets 9067 bytes 1022990 (999.0 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 6091 bytes 529968 (517.5 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
```

44. Check the IP address of your machine.

```
-(pp® pp)-[~]
$ ip addr show | grep inet
inet 127.0.0.1/8 scope host lo
inet6 ::1/128 scope host
inet 192.168.179.128/24 brd 192.168.179.255 scope global dyna
inet6 fe80::20c:29ff:feaa:f76b/64 scope link noprefixroute
-(pp® pp)-[~]
```

45. Test connectivity to an external server.

```
(pp® pp)-[~]
$ ping 192.168.179.128
PING 192.168.179.128 (192.168.179.128) 56(84) bytes of data.
64 bytes from 192.168.179.128: icmp_seq=1 ttl=64 time=0.082 ms
64 bytes from 192.168.179.128: icmp_seq=2 ttl=64 time=0.082 ms
64 bytes from 192.168.179.128: icmp_seq=3 ttl=64 time=0.080 ms
64 bytes from 192.168.179.128: icmp_seq=4 ttl=64 time=0.071 ms
64 bytes from 192.168.179.128: icmp_seq=5 ttl=64 time=0.072 ms
64 bytes from 192.168.179.128: icmp_seq=7 ttl=64 time=0.072 ms
64 bytes from 192.168.179.128: icmp_seq=8 ttl=64 time=0.073 ms
64 bytes from 192.168.179.128: icmp_seq=9 ttl=64 time=0.073 ms
64 bytes from 192.168.179.128: icmp_seq=9 ttl=64 time=0.073 ms
64 bytes from 192.168.179.128: icmp_seq=10 ttl=64 time=0.074 ms
64 bytes from 192.168.179.128: icmp_seq=10 ttl=64 time=0.074 ms
64 bytes from 192.168.179.128: icmp_seq=10 ttl=64 time=0.072 ms
```

46. Display the routing table.

```
Kernel IP routing table
Destination
               Gateway
                                Genmask
                                                Flags Metric Ref
                                                                    Use Ifac
               192.168.179.2
default
                                0.0.0.0
                                                UG
                                                      100
                                                             0
                                                                      0 eth0
192.168.179.0
                                255.255.255.0
                                                                      0 eth0
               0.0.0.0
                                                      100
```

47. Check the open ports and active connections.

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

```
peopp)-[~]
ip a

1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default
  link/loopback 00:00:00:00:00 brd 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
    valid_lft forever preferred_lft forever

2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group
  link/ether 00:0c:29:aa:f7:6b brd ff:ff:ff:ff:ff
  inet 192.168.179.128/24 brd 192.168.179.255 scope global dynamic noprefixroute
    valid_lft 1190sec preferred_lft 1190sec
  inet6 fe80::20c:29ff:feaa:f76b/64 scope link noprefixroute
  valid_lft forever preferred_lft forever
```

49. Trace the route to an external server.

```
(pp@pp)-[~]

$ traceroute 8.8.8.8

traceroute to 8.8.8.8 (8.8.8.8), 30 hops max, 60 byte packets

1 192.168.179.2 (192.168.179.2) 0.573 ms 0.451 ms 0.261 ms

2 192.168.179.2 (192.168.179.2) 0.477 ms !N 0.240 ms !N 0.600 ms !N
```

50. Find out the default gateway.

```
(pp⊕ pp)-[~]
$\frac{1}{2}$ ip route show
default via 192.168.179.2 dev eth0 proto dhcp src 192.168.179.128 metric 100
192.168.179.0/24 dev eth0 proto kernel scope link src 192.168.179.128 metric 100
```

51. Check the MAC address of your network interface.

```
(pp@ pp)-[~]
    ip link show
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN mode DEFAULT group d
    link/loopback 00:00:00:00:00 brd 00:00:00:00:00
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP mode DEFAULT
000
    link/ether 00:0c:29:aa:f7:6b brd ff:ff:ff:ff:ff
```

52. Ensure that the VM can access external networks.

```
ping 192.168.179.128
PING 192.168.179.128 (192.168.179.128) 56(84) bytes of data.
64 bytes from 192.168.179.128: icmp_seq=1 ttl=64 time=0.014 ms
64 bytes from 192.168.179.128: icmp_seq=2 ttl=64 time=0.082 ms
64 bytes from 192.168.179.128: icmp_seq=3 ttl=64 time=0.080 ms
64 bytes from 192.168.179.128: icmp_seq=4 ttl=64 time=0.071 ms
64 bytes from 192.168.179.128: icmp_seq=5 ttl=64 time=0.072 ms
64 bytes from 192.168.179.128: icmp_seq=5 ttl=64 time=0.072 ms
64 bytes from 192.168.179.128: icmp_seq=8 ttl=64 time=0.073 ms
64 bytes from 192.168.179.128: icmp_seq=8 ttl=64 time=0.121 ms
64 bytes from 192.168.179.128: icmp_seq=9 ttl=64 time=0.073 ms
64 bytes from 192.168.179.128: icmp_seq=0 ttl=64 time=0.073 ms
64 bytes from 192.168.179.128: icmp_seq=10 ttl=64 time=0.074 ms
64 bytes from 192.168.179.128: icmp_seq=11 ttl=64 time=0.072 ms
```

Section 6: UFW Firewall:

53. Enable the firewall.

```
___(pp⊛ pp)-[~]
_$ <u>sudo</u> ufw enable
Firewall is active and enabled on system startup
___(pp⊛ pp)-[~]
```

54. Allow SSH connections through the firewall.

```
File Actions Edit View Help

(pp⊕pp)-[~]

$ sudo ufw allow ssh
[sudo] password for pp:
Rule added
Rule added
(v6)

(pp⊕pp)-[~]
```

55. Deny all incoming traffic by default.

```
(pp⊛pp)-[~]
$ sudo ufw default deny incoming
Default incoming policy changed to 'deny'
(be sure to update your rules accordingly)
```

56. Allow HTTP and HTTPS traffic.

```
pp⊗pp)-[~]

Sudo ufw allow http
Rule added
Rule added (v6)

(pp⊗pp)-[~]

Sudo ufw allow https
Rule added
Rule added
Rule added (v6)

(pp⊗pp)-[~]
```

57. Allow port 23

```
(pp@ pp)-[~]

$ <u>sudo</u> ufw allow 23

Rule added

Rule added (v6)
```

58. Reset the firewall settings.

```
(pp® pp)-[~]
$ sudo ufw reset
Resetting all rules to installed defaults. Proceed with operation (yl
Backing up 'user.rules' to '/etc/ufw/user.rules.20240907_173908'
Backing up 'before.rules' to '/etc/ufw/before.rules.20240907_173908'
Backing up 'after.rules' to '/etc/ufw/after.rules.20240907_173908'
Backing up 'user6.rules' to '/etc/ufw/user6.rules.20240907_173908'
Backing up 'before6.rules' to '/etc/ufw/before6.rules.20240907_173908'
Backing up 'after6.rules' to '/etc/ufw/after6.rules.20240907_173908'
```

59. Delete a rule from the firewall.

sudo ufw delete

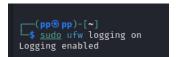
60. Disable the firewall.

```
(pp® pp)-[~]
$\frac{\sudo}{\sudo}\text{ ufw disable}$
Firewall stopped and disabled on system startup
```

61. View the status of the firewall.



62. Log firewall activity and view it.



Section 7: Searching and System Information:

63. Delete the command history.

```
(pp⊕pp)-[~]
$ history -c
fc: event not found: -c
```

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

```
___(pp⊕ pp)-[~/Desktop]
__$ grep "pp" /etc/passwd
up:x:1000:1000:np,,,:/home/pp:/usr/bin/zsh
___(np⊕ np)-[~/Desktop]
```

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

```
(pp® pp)-[~/Desktop]
$ grep "pp" /etc/group
adm:x:4:pp
dialout:x:20:pp
cdrom:x:24:pp
floppy:x:25:pp
sudo:x:27:pp
audio:x:29:pulse,pp
dip:x:30:pp
video:x:44:pp
plugdev:x:46:pp
users:x:100:pp
netdev:x:106:pp
wireshark:x:17:pp
bluetooth:x:120:pp
scanner:x:129:saned,pp
pp:x:1000:
kaboxer:x:140:pp
```

66. Locate the 'passwd' file.

```
-(pp®pp)-[~/Desktop]
locate passwd
/etc/passwd
/etc/passwd-
/etc/alternatives/vncpasswd
/etc/alternatives/vncpasswd.1.gz
/etc/pam.d/chpasswd
/etc/pam.d/passwd
/etc/security/opasswd
/usr/bin/autopasswd
/usr/bin/expect_autopasswd
/usr/bin/expect_mkpasswd
/usr/bin/expect_tkpasswd
/usr/bin/expect_tkpasswd
/usr/bin/gpasswd
/usr/bin/grub-mkpasswd-pbkdf2
/usr/bin/htpasswd
/usr/bin/impacket-smbpasswd
/usr/bin/ldappasswd
/usr/bin/mkpasswd
/usr/bin/mosquitto_passwd
/usr/bin/passwd
/usr/bin/smbpasswd
/usr/bin/tightvncpasswd
/usr/bin/tkpasswd
```

67. Locate the shadow file and open it.

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

```
---(pp@ pp)-[~/Desktop]
-$ find /etc -type f
etc/dconf/db/local.d/kali-menu
etc/guymager/guymager.cfg
etc/X11/Xsession
etc/X11/Xreset.d/README
etc/X11/fonts/misc/xfonts-base.alias
etc/X11/fonts/100dpi/xfonts-100dpi.alias
etc/X11/fonts/Type1/fonts-urw-base35.alias
etc/X11/fonts/Type1/xfonts-scalable.scale
etc/X11/fonts/Type1/xfonts-urw-base35.scale
etc/X11/fonts/Type1/tonts-urw-base35.scale
etc/X11/fonts/Type1/tonts-urw-base35.scale
etc/X11/fonts/Type1/tonts-ypre.scale
etc/X11/fonts/Type1/tex-gyre.scale
etc/X11/fonts/Type1/tonts-75dpi.alias
etc/X11/xinit/xserverrc
etc/X11/xinit/xserverrc
etc/X11/xsm/system.xsm
etc/X11/xsession.options
```

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

70. View the system's kernel version.

```
(pp⊕ pp)-[~/Desktop]

$ uname -r

6.1.0-kali5-amd64
```

71. Display the system's memory usage.

```
      (pp⊕ pp)-[~/Desktop]

      $ free -h
      total used free shared buff/cache available

      Mem: 3.8Gi 1.0Gi 2.4Gi 7.4Mi 618Mi 2.8Gi

      Swap: 974Mi 0B 974Mi
```

72. Show the system's disk usage.

```
–(pp⊛pp)-[~/Desktop]
                          Used Avail Use% Mounted on
                                        0% /dev
1% /run
15% /
0% /dev/shm
0% /run/lock
                             0 1.9G
2M 388M
                   1.9G
                          1.2M
tmpfs
                   389M
                          14G
                                 79G
1.9G
5.0M
/dev/sda1
tmpfs
                   1.9G
                   5.0M
tmpfs
                                           1% /run/user/1000
tmpfs
pp® pp)-[~/Desktop]
```

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

```
(pp⊕ pp)-[~/Desktop]

$ uptime

10:57:36 up 28 min, 1 user, load average: 0.76, 0.84, 0.72
```

74. Display the current logged-in users.

```
(pp® pp)-[~/Desktop]
pp tty7 2024-09-05 10:29 (:0)
```

75. Check the identity of the current user.

```
(pp® pp)-[~/Desktop]
pp

(pp® pp)-[~/Desktop]
```

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

```
— (pp⊕pp)-[~]

-$ cat /var/log/apt/history.log

Start-Date: 2024-09-03 17:11:45

Sommandline: apt-get install ufw

Requested-By: pp (1000)

Install: ufw:amd64 (0.36.2-6)

End-Date: 2024-09-03 17:12:00
```

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

```
(pp⊕ pp)-[~]

$ sudo shred -u /var/log/auth.log
shred: /var/log/auth log: failed to open for writ
```

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

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

```
(pp⊕pp)-[~]
$ sudo chsh -s /bin/bash ebrahim
```

80. Display the system's boot messages.