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Cyber Security Engineer

Kali Linux

أوامر في الكالي وادوات

Eng/ Abu Ali
الرازي المجموعة 2 عملي

Section 1: File and Directory Management:

1. Display the current working directory.

```
(kali@kali)-[~]
$ pwd
/home/kali
```

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

```
(kali@kali)-[~]
$ ls -la
total 348
drwx----- 19 kali kali 4096 Sep 10 11:15 .
drwxr-xr-x  4 root root 4096 Sep  3 11:38 ..
-rw-r--r--  1 kali kali  220 Aug 21  2023 .bash_logout
-rw-r--r--  1 kali kali 5551 Aug 21  2023 .bashrc
-rw-r--r--  1 kali kali 3526 Aug 21  2023 .bashrc.original
drwxr-xr-x 11 kali kali 4096 Aug 30 04:45 .cache
drwxr-xr-x 14 kali kali 4096 Jul 23 16:07 .config
drwxr-xr-x  5 kali kali 4096 Aug 29 03:54 Desktop
-rw-r--r--  1 kali kali  35 Aug 29 03:23 .dmrc
drwxr-xr-x  2 kali kali 4096 Jul 21 02:10 Documents
drwxr-xr-x  2 kali kali 4096 Jul 21 02:10 Downloads
-rw-r--r--  1 kali kali 11759 Aug 21  2023 .face
lrwxrwxrwx  1 kali kali  5 Aug 21  2023 .face.icon → .face
drwxr-xr-x  3 kali kali 4096 Aug 30 05:46 fakecall
drwx----- 3 kali kali 4096 Jul 21 02:10 .gnupg
-rw-----  1 kali kali  0 Jul 21 02:10 .ICEauthority
drwxr-xr-x  4 kali kali 4096 Aug 15 03:39 .java
drwxr-xr-x  4 kali kali 4096 Jul 21 02:10 .local
drwx----- 4 kali kali 4096 Aug 22 04:35 .mozilla
drwxr-xr-x 11 kali kali 4096 Aug 30 04:57 .msf4
drwxr-xr-x  2 kali kali 4096 Jul 21 02:10 Music
drwxr-xr-x  2 kali kali 4096 Jul 21 02:10 Pictures
-rw-r--r--  1 kali kali  807 Aug 21  2023 .profile
drwxr-xr-x  2 kali kali 4096 Jul 21 02:10 Public
-rw-r--r--  1 kali kali  0 Jul 27 14:32 .sudo_as_admin_successful
drwxr-xr-x  2 kali kali 4096 Jul 21 02:10 Templates
drwxr-xr-x  2 kali kali 4096 Jul 21 02:10 Videos
-rw-----  1 kali kali  532 Aug  8 04:43 .viminfo
drwxr-xr-x  2 kali kali 4096 Jul 27 14:27 work
```

3. Change your directory to the `Desktop`.

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

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

```
(kali@kali)-[~/Desktop]
$ mkdir dir1
```

```
(kali@kali)-[~/Desktop]
$ mkdir dir2
```

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

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

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

```
(kali㉿kali)-[~]  
$ touch Desktop/dir1/file1.txt
```

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

```
(kali㉿kali)-[~]  
$ nano Desktop/dir1/file1.txt
```

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

```
(kali㉿kali)-[~]  
$ cp Desktop/dir1/file1.txt Desktop/dir2/file2.txt
```

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

```
(kali㉿kali)-[~]  
$ rm Desktop/dir1/file1.txt  
  
(kali㉿kali)-[~]  
$ ls Desktop/dir1
```

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

```
(kali㉿kali)-[~]  
$ rmdir Desktop/dir1  
  
(kali㉿kali)-[~]  
$ ls Desktop  
ali dir2 file2.txt network_info.txt network_inf.txt
```

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

```
(kali㉿kali)-[~]  
$ ifconfig > ~/Desktop/network_info.txt
```

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

```
(kali㉿kali)-[~]  
$ ifconfig > ~/Desktop/network_info.txt
```

Section 2: Users and Groups Management :

13.Create a new user with your name.

```
(kali㉿kali)-[~]
$ sudo adduser salah
info: Adding user `salah' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group `salah' (1007) ...
info: Adding new user `salah' (1007) with group `salah (1007)' ...
info: Creating home directory `/home/salah' ...
info: Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for salah
Enter the new value, or press ENTER for the default
  Full Name []: kali
  Room Number []: kali
  Work Phone []: 77
  Home Phone []:
  Other []:
Is the information correct? [Y/n] y
info: Adding new user `salah' to supplemental / extra groups `users' ...
info: Adding user `salah' to group `users' ...
```

14.Set a password for your user.

```
(kali㉿kali)-[~]
$ sudo passwd salah
New password:
Retype new password:
passwd: password updated successfully
```

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

```
(kali㉿kali)-[~]
$ cat /etc/passwd |grep salah
salah:x:1007:1007:kali,kali,77,:/home/salah:/bin/bash
```

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

```
(kali㉿kali)-[~]
$ sudo usermod -aG sudo salah
```

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

```
(kali㉿kali)-[~]  
$ su salah  
Password:  
(salah㉿kali)-[/home/kali]
```

18. Create a new group named testgroup.

```
(kali㉿kali)-[~]  
$ sudo groupadd testgroups
```

19. Add your user to testgroup.

```
(kali㉿kali)-[~]  
$ sudo usermod -aG testgroups salah
```

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

```
(kali㉿kali)-[~]  
$ sudo usermod -aG sudo testgroups salah  
Usage: usermod [options] LOGIN  
  
Options:  
-a, --append                append the user to the supplemental GROUPS  
                             mentioned by the -G option without removing  
                             the user from other groups  
-b, --badname                allow bad names  
-c, --comment COMMENT       new value of the GECOS field  
-d, --home HOME_DIR         new home directory for the user account  
-e, --expiredate EXPIRE_DATE set account expiration date to EXPIRE_DATE  
-f, --inactive INACTIVE     set password inactive after expiration  
                             to INACTIVE  
-g, --gid GROUP              force use GROUP as new primary group  
-G, --groups GROUPS         new list of supplementary GROUPS  
-h, --help                  display this help message and exit  
-l, --login NEW_LOGIN       new value of the login name  
-L, --lock                  lock the user account  
-m, --move-home             move contents of the home directory to the  
                             new location (use only with -d)  
-o, --non-unique             allow using duplicate (non-unique) UID  
-p, --password PASSWORD     use encrypted password for the new password
```


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

```
(kali㉿kali)-[~]  
$ sudo deluser salah  
info: Removing crontab ...  
info: Removing user `salah' ...  
userdel: user salah is currently used by process 275594  
fatal: `/usr/sbin/userdel salah' returned error code 8. Exiting.
```

22.Check if your user still have administrative privileges.

```
(kali㉿kali)-[~]  
$ sudo -l  
Matching Defaults entries for kali on kali:  
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:  
  
User kali may run the following commands on kali:  
    (ALL : ALL) ALL
```

23.Check which groups your user belongs to.

```
(kali㉿kali)-[~]  
$ groups salah  
salah : salah sudo users testgroups
```

Section 2: Users and Groups Management :

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)-[~/Desktop]
$ chmod 775 /dir2/file2.txt
```

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

```
(kali㉿kali)-[~/Desktop]
$ ls -l dir2/file2.txt
-rwxrwxr-x 1 hemeed testgroup 19 Sep 12 03:58 dir2/file2.txt
```

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

```
(kali㉿kali)-[~]
$ sudo chown hemeed ~/Desktop/dir2/file2.txt
```

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

```
(kali㉿kali)-[~]
$ ls -l ~/Desktop/dir2/file2.txt
-rwxrwxr-x 1 hemeed testgroup 19 Sep 12 03:58 /home/kali/Desktop/dir2/file2.txt
```

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

```
(kali㉿kali)-[~]
$ sudo chown root ~/Desktop/dir2/file2.txt
```

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

```
(kali㉿kali)-[~]
$ sudo chmod a+w ~/Desktop/dir2/file2.txt
```

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

```
(kali㉿kali)-[~]  
$ sudo chmod go-w ~/Desktop/dir2/file2.txt
```

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

```
(kali㉿kali)-[~]  
$ ls -l ~/Desktop/dir2  
total 4
```

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)-[~]  
$ chmod -R 755 ~/Desktop/
```


Section 4: process Management :

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

```
(kali㉿kali)-[~]  
└─$ sudo apt install htop  
[sudo] password for kali:  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
htop is already the newest version (3.3.0-4).  
0 upgraded, 0 newly installed, 0 to remove and 2050 not upgraded.
```

34.Display all running processes.

```
0[|||||] 10.1% Tasks: 129, 609 thr, 132 kthr; 4 runn  
1[|||||] 16.0% Load average: 1.53 1.54 1.48  
2[|||||] 8.3% Uptime: 05:05:40  
3[|||||] 8.9%  
Mem[|||||] 2.43G/7.75G  
Swp[|||||] 0K/1024M
```

Main		I/O											
PID	USER	PRI	NI	VIRT	RES	SHR	S	CPU%	MEM%	TIME+	Command		
328453	kali	20	0	8832	4992	3328	R	12.5	0.1	0:01.16	htop		
236961	kali	20	0	3527M	680M	203M	S	4.2	8.6	7:18.45	/usr/lib/fir		
746	root	20	0	583M	262M	128M	S	3.6	3.3	6:03.56	/usr/lib/xor		
227638	kali	20	0	3527M	680M	203M	S	3.6	8.6	6:03.21	/usr/lib/fir		
236672	kali	20	0	2431M	163M	98.5M	S	3.6	2.1	7:15.79	/usr/lib/fir		
236963	kali	20	0	3527M	680M	203M	S	3.0	8.6	5:28.50	/usr/lib/fir		
1292	kali	20	0	430M	48952	22564	S	1.8	0.6	1:52.46	/usr/lib/x86		
227647	kali	20	0	3527M	680M	203M	S	1.8	8.6	3:22.13	/usr/lib/fir		
221769	kali	20	0	5784M	587M	40352	S	1.2	7.4	0:20.65	java -jar /u		
227544	kali	20	0	3527M	680M	203M	S	1.2	8.6	2:11.74	/usr/lib/fir		
227546	kali	20	0	3527M	680M	203M	S	1.2	8.6	1:45.81	/usr/lib/fir		
227557	kali	20	0	3527M	680M	203M	S	1.2	8.6	1:02.45	/usr/lib/fir		
227636	kali	20	0	3527M	680M	203M	S	1.2	8.6	2:32.18	/usr/lib/fir		
1229	kali	20	0	1284M	101M	77476	S	0.6	1.3	2:20.40	xfwm4		
227533	kali	20	0	3527M	680M	203M	S	0.6	8.6	1:48.08	/usr/lib/fir		
236676	kali	20	0	2431M	163M	98.5M	S	0.6	2.1	0:55.71	/usr/lib/fir		
236960	kali	20	0	3527M	680M	203M	S	0.6	8.6	0:33.01	/usr/lib/fir		

F1Help F2Setup F3Search F4Filter F5Tree F6SortBy F7Nice -F8Nice +F9Kill F10Quit

35.Display a tree of all running processes.

```
(kali㉿kali)-[~]
$ pstree
systemd--ModemManager--3*[{ModemManager}]
      |NetworkManager--3*[{NetworkManager}]
      |agetty
      |colord--3*[{colord}]
      |cron
      |dbus-daemon
      |haveged
      |lightdm--Xorg--{Xorg}
              |lightdm--xfce4-session--Thunar--3*[{Thunar}]
              |               |agent--3*[{agent}]
              |               |blueman-applet--4*[{blueman-app+
              |               |light-locker--4*[{light-locker}]+
              |               |nm-applet--4*[{nm-applet}]
              |               |polkit-gnome-au--3*[{polkit-gno+
              |               |ssh-agent
              |               |xfce4-panel--firefox-esr--4*[{I+
              |               |               |Priv+
              |               |               |Sock+
              |               |               |3*[{W+
              |               |               |WebE+
              |               |               |file+
              |               |               |102*+
              |               |panel-1-whisker--+
              |               |panel-13-cpugra--+
              |               |panel-14-systra--+
              |               |panel-15-genmon--+
```

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

```
0[|||] 8.8% Tasks: 128, 605 thr, 127 kthr; 1 runn
1[|||] 8.4% Load average: 1.39 1.38 1.42
2[||||] 18.3% Uptime: 05:13:59
3[|||] 4.9%
Mem[|||||||||] 2.44G/7.75G
Swp[ ] 0K/1024M

Setup
Categories
Display options [x] Default
Header layout [ ] Monochromatic
Meters [ ] Black on White
Screens [ ] Light Terminal
Colors [ ] MC
[ ] Black Night
[ ] Broken Gray
```

37.Kill a process with a specific PID.

```
(kali㉿kali)-[~]
$ kill 1090
```

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

```
(kali㉿kali)-[~]  
$ xeyes &  
[1] 338537  
  
(kali㉿kali)-[~]  
$ kill 338537  
  
[1] + terminated xeyes  
(kali㉿kali)-[~]  
$
```

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

```
(kali㉿kali)-[~]  
$ sudo apt install htop  
[sudo] password for kali:  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
htop is already the newest version (3.3.0-4).  
0 upgraded, 0 newly installed, 0 to remove and 2050 not upgraded.
```

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

```
(kali㉿kali)-[~]  
$ xeyes &  
[2] 343354  
  
(kali㉿kali)-[~]  
$ fg  
[1] - continued htop
```

41.Check how long the system has been running.

```
(kali㉿kali)-[~]  
$ uptime  
10:39:22 up 5:38, 1 user, load average: 0.03, 0.17, 0.54
```

42.List all jobs running in the background.

```
(kali㉿kali)-[~]  
$ jobs  
[1] + suspended htop  
[2] - running xeyes
```

Section 5: Networking Commands:

43. Display the network configuration.

```
(kali㉿kali)-[~]  
$ ifconfig  
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500  
    inet 192.168.222.128 netmask 255.255.255.0 broadcast 192.168.222.  
.255  
    inet6 fe80::484:54cd:ea06:ad6b prefixlen 64 scopeid 0x20<link>  
    ether 00:0c:29:87:de:de txqueuelen 1000 (Ethernet)  
    RX packets 4780 bytes 994222 (970.9 KiB)  
    RX errors 0 dropped 0 overruns 0 frame 0  
    TX packets 1552 bytes 142243 (138.9 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 3401 bytes 1423416 (1.3 MiB)  
    RX errors 0 dropped 0 overruns 0 frame 0  
    TX packets 3401 bytes 1423416 (1.3 MiB)  
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

44. Check the IP address of your machine.

```
(kali㉿kali)-[~]  
$ hostname -I  
192.168.222.128
```

45. Test connectivity to an external server.

```
(kali㉿kali)-[~]  
$ ping example.com
```

46. Display the routing table.

```
(kali㉿kali)-[~]  
$ ip rout show  
default via 192.168.222.2 dev eth0 proto dhcp src 192.168.222.128 metric 1  
00  
192.168.222.0/24 dev eth0 proto kernel scope link src 192.168.222.128 metr  
ic 100
```

47. Check the open ports and active connections.

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

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

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

```
(kali㉿kali)-[~]
$ uptime
10:39:22 up 5:38, 1 user, load average: 0.03, 0.17, 0.54
```

49. Trace the route to an external server.

```
(kali㉿kali)-[~]
$ traceroute 192.168.222.128
traceroute to 192.168.222.128 (192.168.222.128), 30 hops max, 60 byte packets
 1  192.168.222.128 (192.168.222.128)  0.285 ms  0.015 ms  0.010 ms

(kali㉿kali)-[~]
$ traceroute 8.8.8.8
traceroute to 8.8.8.8 (8.8.8.8), 30 hops max, 60 byte packets
 1  192.168.222.2 (192.168.222.2)  0.374 ms  0.306 ms  0.184 ms
 2  192.168.222.2 (192.168.222.2)  0.390 ms !H 0.270 ms !H 0.252 ms !H
```

50. Find out the default gateway.

```
(kali㉿kali)-[~]
$ sudo ip route | grep default
[sudo] password for kali:
```

51. Check the MAC address of your network interface.

```
(kali㉿kali)-[~]  
$ ip link show  
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN mode D  
EFAULT group default qlen 1000  
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00  
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state U  
P mode DEFAULT group default qlen 1000  
    link/ether 00:0c:29:87:de:de brd ff:ff:ff:ff:ff:ff
```

52. Ensure that the VM can access external networks.

```
(kali㉿kali)-[~]  
$ ping 8.8.8.8  
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.  
From 192.168.222.2 icmp_seq=1 Destination Host Unreachable  
From 192.168.222.2 icmp_seq=2 Destination Host Unreachable  
From 192.168.222.2 icmp_seq=3 Destination Host Unreachable  
From 192.168.222.2 icmp_seq=4 Destination Host Unreachable  
From 192.168.222.2 icmp_seq=5 Destination Host Unreachable  
From 192.168.222.2 icmp_seq=6 Destination Host Unreachable  
From 192.168.222.2 icmp_seq=7 Destination Host Unreachable
```


Section 6: UFW Firewall:

53.Enable the firewall.

```
(kali㉿kali)-[~]  
$ ping 8.8.8.8  
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.  
From 192.168.222.2 icmp_seq=1 Destination Host Unreachable  
From 192.168.222.2 icmp_seq=2 Destination Host Unreachable  
From 192.168.222.2 icmp_seq=3 Destination Host Unreachable  
From 192.168.222.2 icmp_seq=4 Destination Host Unreachable  
From 192.168.222.2 icmp_seq=5 Destination Host Unreachable  
From 192.168.222.2 icmp_seq=6 Destination Host Unreachable  
From 192.168.222.2 icmp_seq=7 Destination Host Unreachable
```

54.Allow SSH connections through the firewall.

1. Deny all incoming traffic by default.
2. Allow HTTP and HTTPS traffic.
3. Allow port 20
4. Reset the firewall settings.
5. Delete a rule from the firewall.
6. Disable the firewall.
7. View the status of the firewall.
8. Log firewall activity and view it.

Section 7: Searching and System Information :

63.Delete the command history.

```
(kali㉿kali)-[~]  
$ history -c
```

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

```
(kali㉿kali)-[~/Desktop]  
$ grep kali /etc/passwd  
kali:x:1000:1000:,,,:/home/kali:/usr/bin/zsh  
hemeed:x:1005:1005:kali,kali,kali,kali,kali:/home/hemeed:/bin/bash  
salah:x:1007:1007:kali,kali,77,:/home/salah:/bin/bash
```

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

```
(kali㉿kali)-[~/Desktop]  
$ grep kali /etc/group  
adm:x:4:kali  
dialout:x:20:kali  
cdrom:x:24:kali  
floppy:x:25:kali  
sudo:x:27:kali,salah  
audio:x:29:pulse,kali  
dip:x:30:kali  
video:x:44:kali  
plugdev:x:46:kali  
users:x:100:kali,ali,moh,hemeed,hemeed,salah  
netdev:x:106:kali  
bluetooth:x:111:kali  
scanner:x:117:saned,kali  
kali-trusted:x:123:  
wireshark:x:140:kali  
kali:x:1000:  
kaboxer:x:142:kali
```

66.Locate the `passwd` file.

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

67.Locate the shadow file and open it.

```
(kali㉿kali)-[~/Desktop]  
$ sudo cat /etc/shadow  
[sudo] password for kali:  
root:*:19590:0:99999:7:::  
daemon:*:19590:0:99999:7:::  
bin:*:19590:0:99999:7:::  
sys:*:19590:0:99999:7:::  
sync:*:19590:0:99999:7:::  
games:*:19590:0:99999:7:::  
man:*:19590:0:99999:7:::  
lp:*:19590:0:99999:7:::  
mail:*:19590:0:99999:7:::  
news:*:19590:0:99999:7:::  
uucp:*:19590:0:99999:7:::  
proxy:*:19590:0:99999:7:::
```

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

```
(kali㉿kali)-[~/Desktop]
$ find /etc -type f -name "*.conf"
/etc/ts.conf
/etc/smartd.conf
/etc/freetds/freetds.conf
/etc/plymouth/plymouthd.conf
/etc/resolv.conf
/etc/sensors3.conf
/etc/udev/udev.conf
/etc/udev/iocost.conf
/etc/avahi/avahi-daemon.conf
/etc/john/john-mail.conf
/etc/john/john.conf
/etc/nginx/snippets/fastcgi-php.conf
/etc/nginx/snippets/snakeoil.conf
/etc/nginx/fastcgi.conf
/etc/nginx/nginx.conf
/etc/snmp/snmp.conf
```

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

```
(kali㉿kali)-[~/Desktop]
$ grep -r "var" /var/log
grep: /var/log/vmware-vmtoolsd-root.1.log: Permission denied
/var/log/Xorg.1.log.old:[ 20944.964] (=) Log file: "/var/log/Xorg.1.log",
Time: Wed Sep 25 10:49:39 2024
grep: /var/log/boot.log: Permission denied
grep: /var/log/private: Permission denied
/var/log/fontconfig.log:/var/cache/fontconfig: cleaning cache directory
grep: /var/log/boot.log.2: Permission denied
/var/log/Xorg.0.log:[ 19178.364] (=) Log file: "/var/log/Xorg.0.log", Time:
Wed Sep 25 10:20:13 2024
grep: /var/log/btmp: Permission denied
grep: /var/log/boot.log.1: Permission denied
grep: /var/log/speech-dispatcher: Permission denied
grep: /var/log/vmware-vmtoolsd-root.2.log: Permission denied
/var/log/dpkg.log.1:2023-08-21 16:27:02 install libefivar1:amd64 <none> 37-6
/var/log/dpkg.log.1:2023-08-21 16:27:02 status half-installed libefivar1:amd64 37-6
/var/log/dpkg.log.1:2023-08-21 16:27:02 status unpacked libefivar1:amd64 37-6
```

70. View the system's kernel version.

```
(kali㉿kali)-[~/Desktop]
$ uname -r
6.3.0-kali1-amd64
```

71.Display the system's memory usage.

```
(kali㉿kali)-[~/Desktop]
$ free -h
```

	total	used	free	shared	buff/cache	availabl
Mem:	7.7Gi	922Mi	5.0Gi	5.9Mi	2.1Gi	6.8G
Swap:	1.0Gi	0B	1.0Gi			

72.Show the system's disk usage.

```
(kali㉿kali)-[~/Desktop]
$ df -h
```

Filesystem	Size	Used	Avail	Use%	Mounted on
udev	3.9G	0	3.9G	0%	/dev
tmpfs	794M	1.3M	793M	1%	/run
/dev/sda1	79G	15G	60G	21%	/
tmpfs	3.9G	0	3.9G	0%	/dev/shm
tmpfs	5.0M	0	5.0M	0%	/run/lock
tmpfs	794M	116K	794M	1%	/run/user/1000

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

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

12:17:10 up 7:12, 1 user, load average: 0.24, 0.18, 0.18

74.Display the current logged-in users.

```
(kali㉿kali)-[~/Desktop]
$ who
```

kali tty7 2024-09-25 10:20 (:0)

75.Check the identity of the current user.

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

kali

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

```
(kali㉿kali)-[~/Desktop]
$ sudo less /var/log/auth.log
```

/var/log/auth.log: No such file or directory

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

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

shred: /var/log/auth.log: failed to open for writing: No such file or directory

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

```
(kali㉿kali)-[~/Desktop]  
$ sudo usermod -L salah
```

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

```
(kali㉿kali)-[~/Desktop]  
$ sudo chsh -s /bin/bash salah
```

80.Display the system's boot messages.

```
(kali㉿kali)-[~/Desktop]  
$ grep kali /etc/passwd  
kali:x:1000:1000:,,,:/home/kali:/usr/bin/zsh  
hemeed:x:1005:1005:kali,kali,kali,kali,kali:/home/hemeed:/bin/bash  
salah:x:1007:1007:kali,kali,77,:/home/salah:/bin/bash
```

