PORTADA

NOMBRE: BRAYN SAHAGUN
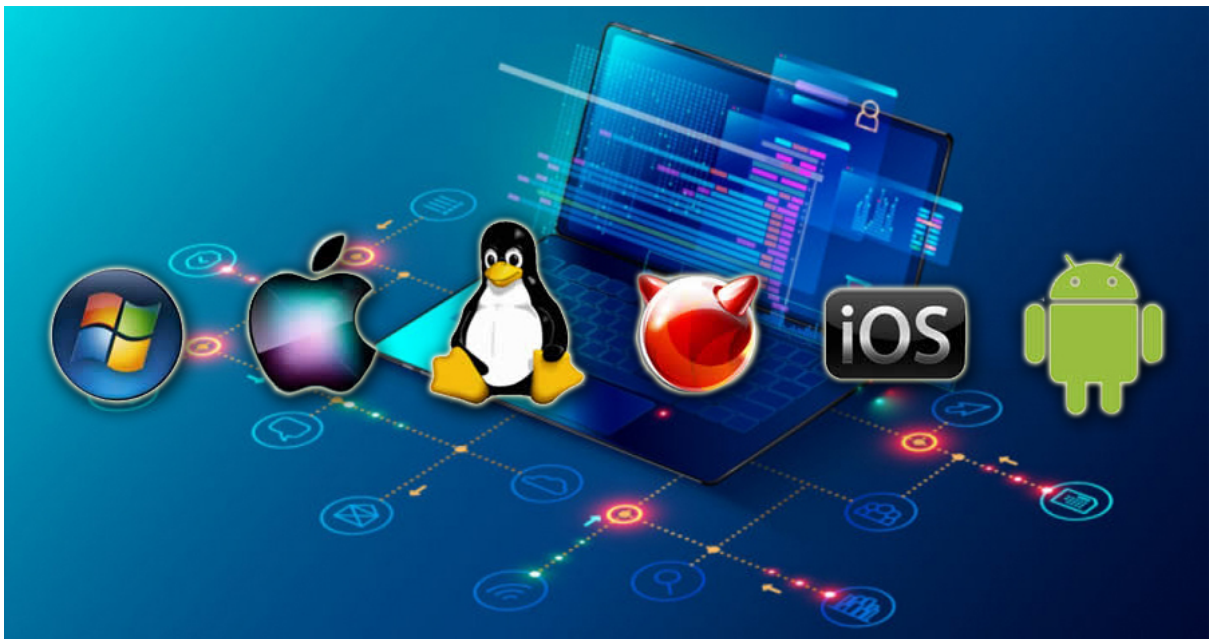
PROFESOR: JIMENEZ SANCHEZ ISMAEL

ESCUELA: UPQROO

CARRERA: INGENIERÍA EN SOFTWARE

MATERIA: SISTEMAS OPERATIVOS

GRUPO: 27BV   **CUATRIMESTRE:** 7mo

1. Asumir el prompt de superusuario

```
┌──(aiden㉿kali)-[~]
└─$ sudo mkdir homework
[sudo] password for aiden:
```

2. Cambiar el password de superusuario

```
┌──(aiden㉿kali)-[~]
└─$ passwd
Changing password for aiden.
Current password:
New password:
Retype new password:
passwd: password updated successfully
```

3. Listar el directorio raíz

```
┌──(aiden㉿kali)-[~]
└─$ ls /
bin   dev   home        lib     lib64   lost+found  mnt   proc   run    srv    tmp   var
boot  etc   initrd.img  lib32   libx32  media       opt   root   sbin   sys    usr   vmlinuz
```

4. Cambiarse al directorio raíz

```
┌──(aiden㉿kali)-[~]
└─$ cd /
```

5. Verificar el directorio actual

```
┌──(aiden㉿kali)-[/]
└─$ pwd
/
```

6. Crear un directorio "prueba" en /home

```
┌──(aiden㉿kali)-[/]
└─$ sudo mkdir /home/prueba
```

7. Crear un archivo "test" en directorio /home/prueba

```
┌──(aiden㉿kali)-[/]
└─$ sudo mkdir /home/prueba/test
```

8. Verificar el usuario actual

```
┌──(aiden㉿kali)-[/]
└─$ whoami
aiden
```

9. Mostrar el contenido del archivo /root/.bash_history

```
┌──(aiden㉿kali)-[/]
└─$ sudo cat /root/.bash_history
cat: /root/.bash_history: No such file or directory

┌──(aiden㉿kali)-[/]
└─$ sudo less /root/.bash_history
/root/.bash_history: No such file or directory
```

10. Copiar el archivo "test" a /root

```
┌──(aiden㉿kali)-[/]
└─$ sudo cp -r /home/prueba/test /root/
```

11. Eliminar el archivo "test" de /home/prueba

```
┌──(aiden㉿kali)-[~]
└─$ sudo rm -r /home/prueba/test
```

12. Mover /root/test a la raíz

```
┌──(aiden㉿kali)-[/home/prueba]
└─$ sudo mv /root/test /test
```

13. Hacer un ping a www.google.com

```
└─$ ping www.google.com
PING www.google.com (142.250.189.132) 56(84) bytes of data.
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=1 ttl=116 time=18.4 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=2 ttl=116 time=18.2 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=3 ttl=116 time=19.9 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=4 ttl=116 time=21.1 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=5 ttl=116 time=19.1 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=6 ttl=116 time=18.7 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=7 ttl=116 time=18.5 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=8 ttl=116 time=17.8 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=9 ttl=116 time=19.1 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=10 ttl=116 time=19.3 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=11 ttl=116 time=25.9 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=12 ttl=116 time=20.5 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=13 ttl=116 time=21.0 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=14 ttl=116 time=27.0 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=15 ttl=116 time=19.0 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=16 ttl=116 time=18.5 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=17 ttl=116 time=18.9 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=18 ttl=116 time=19.6 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=19 ttl=116 time=19.1 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=20 ttl=116 time=19.8 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=21 ttl=116 time=19.5 ms
```

14. Mostrar la configuración de red del servidor

```
┌──(aiden㉿kali)-[~]
└─$ ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 10.0.2.15  netmask 255.255.255.0  broadcast 10.0.2.255
        inet6 fe80::a00:27ff:fe9d:1378  prefixlen 64  scopeid 0×20<link>
        ether 08:00:27:9d:13:78  txqueuelen 1000  (Ethernet)
        RX packets 96  bytes 11298 (11.0 KiB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 122  bytes 12012 (11.7 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 0×10<host>
        loop  txqueuelen 1000  (Local Loopback)
        RX packets 36  bytes 2160 (2.1 KiB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 36  bytes 2160 (2.1 KiB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0
```

15. Usar el comando netstat

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

16. Usar el comando top

```
┌──(aiden㉿kali)-[~]
└─$ top
top - 18:50:33 up 53 min,  1 user,  load average: 0.03, 0.01, 0.00
Tasks: 153 total,   1 running, 152 sleeping,   0 stopped,   0 zombie
%Cpu(s):  0.5 us,  0.5 sy,  0.0 ni, 99.0 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :   3915.3 total,   2842.1 free,    812.9 used,    481.8 buff/cache
MiB Swap:    975.0 total,    975.0 free,      0.0 used.   3102.4 avail Mem

   PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
  6252 root      20   0  369288 106432  56532 S   0.7   2.7   0:06.69 Xorg
  6753 aiden     20   0  444732 104232  84972 S   0.7   2.6   0:01.58 qterminal
  6437 aiden     20   0  215336   3212   2816 S   0.3   0.1   0:01.59 VBoxClient
  6472 aiden     20   0  238284  10084   7296 S   0.3   0.3   0:00.13 at-spi2-registr
  6526 aiden     20   0  429304  28012  20708 S   0.3   0.7   0:03.04 panel-15-genmon
 29043 aiden     20   0    9156   4992   2944 R   0.3   0.1   0:00.01 top
     1 root      20   0   21104  12772   9316 S   0.0   0.3   0:00.67 systemd
     2 root      20   0       0      0      0 S   0.0   0.0   0:00.00 kthreadd
     3 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 rcu_gp
     4 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 rcu_par_gp
     5 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 slub_flushwq
     6 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 netns
     9 root      20   0       0      0      0 I   0.0   0.0   0:00.51 kworker/u4:0-writeback
    10 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 mm_percpu_wq
    11 root      20   0       0      0      0 I   0.0   0.0   0:00.00 rcu_tasks_kthread
    12 root      20   0       0      0      0 I   0.0   0.0   0:00.00 rcu_tasks_rude_kthread
    13 root      20   0       0      0      0 I   0.0   0.0   0:00.00 rcu_tasks_trace_kthread
    14 root      20   0       0      0      0 S   0.0   0.0   0:00.08 ksoftirqd/0
    15 root      20   0       0      0      0 I   0.0   0.0   0:00.32 rcu_preempt
    16 root      rt   0       0      0      0 S   0.0   0.0   0:00.00 migration/0
    17 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/0
    19 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/0
    20 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/1
    21 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/1
    22 root      rt   0       0      0      0 S   0.0   0.0   0:00.20 migration/1
```

17. Usar el comando traceroute

```
┌──(aiden㊉kali)-[~]
└─$ traceroute www.google.com
traceroute to www.google.com (142.250.189.132), 30 hops max, 60 byte packets
 1  10.0.2.2 (10.0.2.2)  0.068 ms  0.043 ms  0.038 ms
 2  * * *
 3  * * *
 4  * * *
 5  * * *
 6  * * *
 7  * * *
 8  * * *
 9  * * *
10  * * *
11  * * *
12  * * *
13  * * *
14  * * *
15  * * *
16  * * *
17  * * *
18  * * *
19  * * *
20  * * *
21  * * *
22  * * *
23  * * *
24  * * *
25  * * *
26  * * *
27  * * *
28  * * *
29  * * *
30  * * *
```

18. Usar el comando nslookup

```
┌──(aiden㊉kali)-[~]
└─$ nslookup www.google.com
Server:         192.168.100.1
Address:        192.168.100.1#53

Non-authoritative answer:
Name:   www.google.com
Address: 142.250.189.132
Name:   www.google.com
Address: 2607:f8b0:4008:809::2004
```