TAREA #988

SISTEMAS OPERATIVOS

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1. Asumir el prompt de superusuario.

```
┌──(irving㉿irving)-[~]
└─$ sudo -i
[sudo] password for irving:
┌──(root㉿irving)-[~]
└─#
```

2. Cambiar el password del superusuario.

```
┌──(root㉿irving)-[~]
└─# sudo passwd root
New password:
Retype new password:
passwd: password updated successfully
```

3. Listar el directorio raíz.

```
┌──(root㉿irving)-[~]
└─# ls -l /
total 68
lrwxrwxrwx   1 root root     7 Oct 12 23:47 bin -> usr/bin
drwxr-xr-x   3 root root  4096 Oct 13 00:30 boot
drwxr-xr-x  18 root root  3320 Oct 13 00:32 dev
drwxr-xr-x 191 root root 12288 Oct 13 00:42 etc
drwxr-xr-x   3 root root  4096 Oct 13 00:29 home
lrwxrwxrwx   1 root root    33 Oct 12 23:48 initrd.img -> boot/initrd.img-6.3.0-kali1-amd64
lrwxrwxrwx   1 root root    33 Oct 12 23:48 initrd.img.old -> boot/initrd.img-6.3.0-kali1-amd64
lrwxrwxrwx   1 root root     7 Oct 12 23:47 lib -> usr/lib
lrwxrwxrwx   1 root root     9 Oct 12 23:47 lib32 -> usr/lib32
lrwxrwxrwx   1 root root     9 Oct 12 23:47 lib64 -> usr/lib64
lrwxrwxrwx   1 root root    10 Oct 12 23:47 libx32 -> usr/libx32
drwx------   2 root root 16384 Oct 12 23:47 lost+found
drwxr-xr-x   3 root root  4096 Oct 12 23:47 media
drwxr-xr-x   2 root root  4096 Oct 12 23:47 mnt
drwxr-xr-x   3 root root  4096 Oct 13 00:04 opt
dr-xr-xr-x 258 root root     0 Oct 13 00:32 proc
drwx------   4 root root  4096 Oct 13 00:42 root
drwxr-xr-x  34 root root   820 Oct 13 00:32 run
lrwxrwxrwx   1 root root     8 Oct 12 23:47 sbin -> usr/sbin
drwxr-xr-x   3 root root  4096 Oct 13 00:09 srv
dr-xr-xr-x  13 root root     0 Oct 13 00:32 sys
drwxrwxrwt  16 root root  4096 Oct 13 00:44 tmp
drwxr-xr-x  16 root root  4096 Oct 12 23:57 usr
drwxr-xr-x  12 root root  4096 Oct 12 23:55 var
lrwxrwxrwx   1 root root    30 Oct 12 23:48 vmlinuz -> boot/vmlinuz-6.3.0-kali1-amd64
lrwxrwxrwx   1 root root    30 Oct 12 23:48 vmlinuz.old -> boot/vmlinuz-6.3.0-kali1-amd64
```

4. Cambiarse al directorio raíz.

```
┌──(root㉿irving)-[~]
└─# cd /

┌──(root㉿irving)-[/]
└─#
```

5. Verificar el directorio actual.

```
┌──(root☢irving)-[/]
└─# pwd
/
```

6. Crear directorio "prueba" en /home.

```
┌──(root☢irving)-[/]
└─# mkdir /home/prueba

┌──(root☢irving)-[/]
└─# ls /home
irving  prueba
```

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

```
┌──(root☢irving)-[/]
└─# touch /home/prueba/test

┌──(root☢irving)-[/]
└─# ls /home/prueba
test
```

8. Verificar el usuario actual.

```
┌──(root☢irving)-[/]
└─# whoami
root
```

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

```
┌──(root☢irving)-[/]
└─# less /root/.bash_history
/root/.bash_history: No such file or directory

┌──(root☢irving)-[/]
└─# cat /root/.bash_history
cat: /root/.bash_history: No such file or directory
```

10. Copiar el archivo "test" a /root.

```
┌──(root☢irving)-[/]
└─# cp /home/prueba/test /root/

┌──(root☢irving)-[/]
└─#
```

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

```
┌──(root💀irving)-[/]
└─# rm /home/prueba/test

┌──(root💀irving)-[/]
└─#
```

12. Mover /root/test a la raíz.

```
┌──(root💀irving)-[/]
└─# mv /root/test /
```

13. Hacer un ping a www.google.com.

```
┌──(root💀irving)-[/]
└─# ping www.google.com
PING www.google.com (142.250.217.164) 56(84) bytes of data.
64 bytes from mia07s60-in-f4.1e100.net (142.250.217.164): icmp_seq=1 ttl=116 time=35.6 ms
64 bytes from mia07s60-in-f4.1e100.net (142.250.217.164): icmp_seq=2 ttl=116 time=37.4 ms
64 bytes from mia07s60-in-f4.1e100.net (142.250.217.164): icmp_seq=3 ttl=116 time=33.3 ms
64 bytes from mia07s60-in-f4.1e100.net (142.250.217.164): icmp_seq=4 ttl=116 time=38.1 ms
^C
--- www.google.com ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3008ms
rtt min/avg/max/mdev = 33.296/36.089/38.076/1.845 ms
```

14. Mostrar la configuración de red del servidor.

```
┌──(root💀irving)-[/]
└─# 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:fea8:6ae9  prefixlen 64  scopeid 0x20<link>
        ether 08:00:27:a8:6a:e9  txqueuelen 1000  (Ethernet)
        RX packets 1320  bytes 1397236 (1.3 MiB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 667  bytes 78136 (76.3 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 24  bytes 1440 (1.4 KiB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 24  bytes 1440 (1.4 KiB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0
```

15. Usar el comando netstat.

```
  ┌──(root㊉irving)-[/]
  └─# netstat
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address          Foreign Address        State
udp        0      0 irving:bootpc          _gateway:bootps        ESTABLISHED
Active UNIX domain sockets (w/o servers)
Proto RefCnt Flags       Type       State         I-Node   Path
unix  3      [ ]         STREAM     CONNECTED     23885
unix  3      [ ]         STREAM     CONNECTED     24600    /run/systemd/journal/stdout
unix  2      [ ]         DGRAM                    19263
unix  3      [ ]         STREAM     CONNECTED     23193
unix  3      [ ]         STREAM     CONNECTED     23117    /run/user/1000/bus
unix  3      [ ]         STREAM     CONNECTED     24628    /run/dbus/system_bus_socket
unix  3      [ ]         STREAM     CONNECTED     23074
unix  3      [ ]         STREAM     CONNECTED     22601
unix  3      [ ]         STREAM     CONNECTED     22295    @/tmp/.X11-unix/X1
unix  3      [ ]         STREAM     CONNECTED     22290    /run/user/1000/bus
unix  3      [ ]         STREAM     CONNECTED     19012    /run/systemd/journal/stdout
unix  3      [ ]         STREAM     CONNECTED     18161    /run/systemd/journal/stdout
unix  3      [ ]         STREAM     CONNECTED     24899
unix  3      [ ]         STREAM     CONNECTED     22522
unix  3      [ ]         STREAM     CONNECTED     24629
unix  3      [ ]         STREAM     CONNECTED     22068    /run/systemd/journal/stdout
unix  3      [ ]         STREAM     CONNECTED     23751
unix  3      [ ]         STREAM     CONNECTED     23704
unix  3      [ ]         STREAM     CONNECTED     22182
unix  3      [ ]         STREAM     CONNECTED     21360    /run/systemd/journal/stdout
unix  2      [ ]         DGRAM                    18857
unix  3      [ ]         STREAM     CONNECTED     21457
unix  3      [ ]         STREAM     CONNECTED     22698
unix  3      [ ]         STREAM     CONNECTED     22689
unix  3      [ ]         STREAM     CONNECTED     27546
unix  3      [ ]         STREAM     CONNECTED     23937
unix  3      [ ]         STREAM     CONNECTED     24683
unix  3      [ ]         STREAM     CONNECTED     19178    /run/systemd/journal/stdout
unix  3      [ ]         STREAM     CONNECTED     22479    @/tmp/.X11-unix/X1
unix  3      [ ]         STREAM     CONNECTED     23764    /run/user/1000/at-spi/bus_1
unix  3      [ ]         STREAM     CONNECTED     21146
unix  3      [ ]         STREAM     CONNECTED     19261
unix  3      [ ]         STREAM     CONNECTED     22300    /run/user/1000/bus
unix  3      [ ]         STREAM     CONNECTED     21419    /run/user/1000/bus
unix  3      [ ]         STREAM     CONNECTED     24579
unix  3      [ ]         STREAM     CONNECTED     21402    /run/systemd/journal/stdout
unix  3      [ ]         STREAM     CONNECTED     24664    /run/user/1000/bus
unix  3      [ ]         STREAM     CONNECTED     22424    @/tmp/.X11-unix/X1
unix  3      [ ]         STREAM     CONNECTED     23762    /run/user/1000/at-spi/bus_1
unix  3      [ ]         STREAM     CONNECTED     23070
```

16. Usar el comando top.

```
┌──(root@irving)-[/]
└─# top
top - 01:25:12 up 52 min,  3 users,  load average: 0.19, 0.12, 0.05
Tasks: 201 total,   3 running, 198 sleeping,   0 stopped,   0 zombie
%Cpu(s): 50.0 us, 25.0 sy,  0.0 ni, 25.0 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :   4819.8 total,   2142.0 free,   1447.6 used,   1479.2 buff/cache
MiB Swap:    975.0 total,    975.0 free,      0.0 used.   3372.2 avail Mem

    PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
   1767 irving    20   0 4975280 456368 152204 R 400.0   9.2   2:19.52 gnome-shell
      1 root      20   0   21160  12672   9344 S   0.0   0.3   0:01.16 systemd
      2 root      20   0       0      0      0 S   0.0   0.0   0:00.01 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
      8 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/0:0H-events_highpri
      9 root      20   0       0      0      0 I   0.0   0.0   0:00.93 kworker/u8:0-events_unbound
     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   0:00.03 ksoftirqd/0
     15 root      20   0       0      0      0 I   0.0   0.0   0:00.52 rcu_preempt
     16 root      rt   0       0      0      0 S   0.0   0.0   0:00.07 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
top - 01:25:24 up 52 min,  3 users,  load average: 0.22, 0.13, 0.06
Tasks: 200 total,   2 running, 198 sleeping,   0 stopped,   0 zombie
%Cpu(s): 33.3 us, 33.3 sy,  0.0 ni, 33.3 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :   4819.8 total,   2109.9 free,   1479.7 used,   1480.3 buff/cache
MiB Swap:    975.0 total,    975.0 free,      0.0 used.   3340.1 avail Mem
```

17. Usar el comando traceroute.

```
┌──(root💀irving)-[~]
└─# traceroute www.google.com
traceroute to www.google.com (142.250.217.164), 30 hops max, 60 byte packets
 1  _gateway (10.0.2.2)  1.890 ms  1.610 ms  1.317 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.

```
┌──(root💀irving)-[~]
└─# nslookup www.google.com
Server:         10.223.234.2
Address:        10.223.234.2#53

Non-authoritative answer:
Name:   www.google.com
Address: 142.250.217.164
Name:   www.google.com
Address: 2607:f8b0:4008:80a::2004
```