COMANDOS LINUX

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GRUPO: 27BV
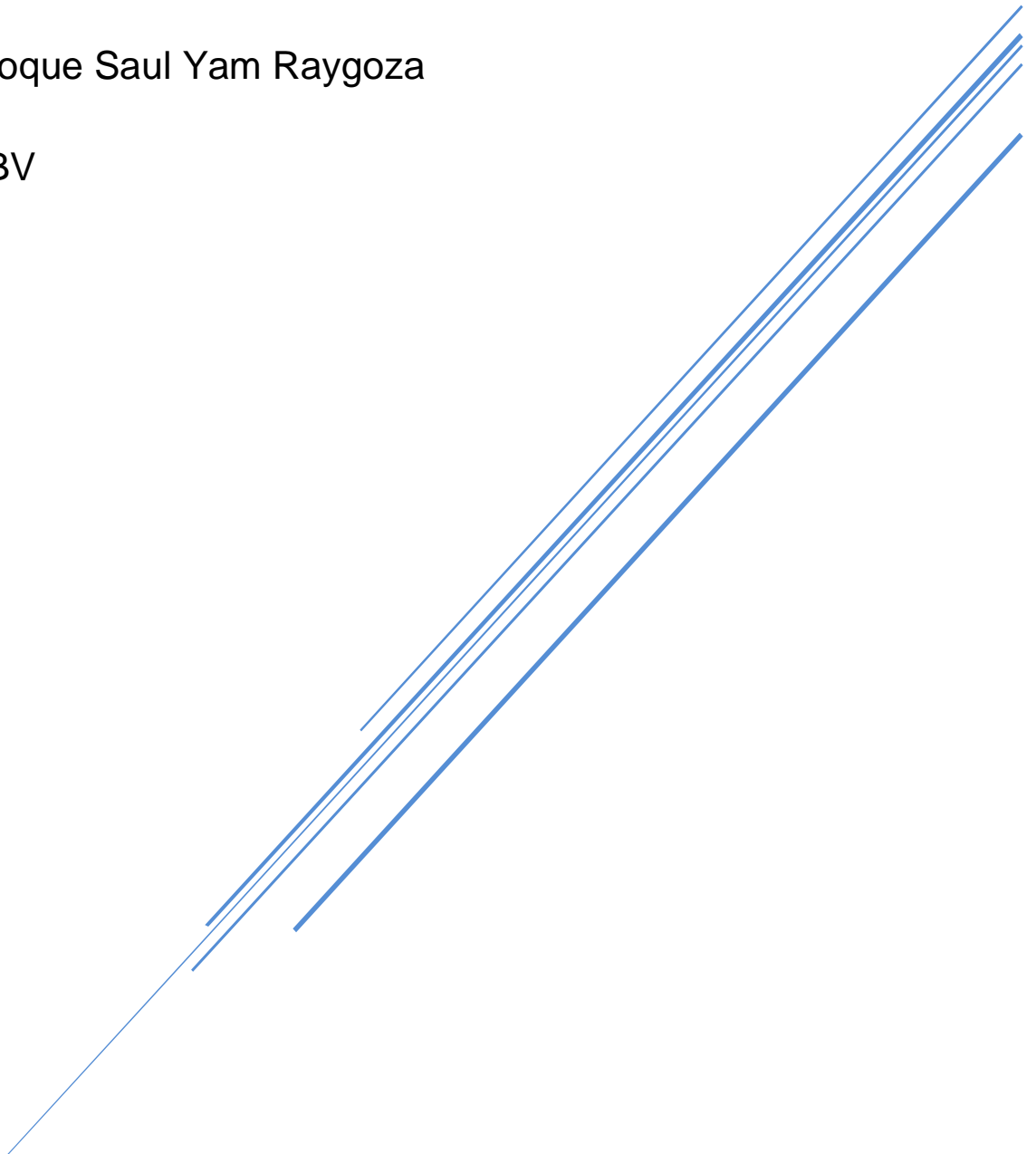
1. Asumir el prompt de superusuario

```
┌──(root💀Roque)-[/]
└─# █
```

2. Cambiar el password del superusuario

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

3. Listar el directorio raíz

```
┌──(root💀Roque)-[~]
└─# ls -l /
total 68
lrwxrwxrwx   1 root root      7 Sep 19 11:30 bin → usr/bin
drwxr-xr-x   3 root root   4096 Sep 19 11:58 boot
drwxr-xr-x  17 root root   3360 Dec  6 08:45 dev
drwxr-xr-x 178 root root  12288 Dec  6 08:58 etc
drwxr-xr-x   3 root root   4096 Sep 19 11:56 home
lrwxrwxrwx   1 root root     33 Sep 19 11:31 initrd.img → boot/initrd.img-6.3
.0-kali1-amd64
lrwxrwxrwx   1 root root     33 Sep 19 11:31 initrd.img.old → boot/initrd.img
-6.3.0-kali1-amd64
lrwxrwxrwx   1 root root      7 Sep 19 11:30 lib → usr/lib
lrwxrwxrwx   1 root root      9 Sep 19 11:30 lib32 → usr/lib32
lrwxrwxrwx   1 root root      9 Sep 19 11:30 lib64 → usr/lib64
lrwxrwxrwx   1 root root     10 Sep 19 11:30 libx32 → usr/libx32
drwx──────   2 root root  16384 Sep 19 11:30 lost+found
drwxr-xr-x   3 root root   4096 Sep 19 11:30 media
drwxr-xr-x   2 root root   4096 Sep 19 11:30 mnt
drwxr-xr-x   3 root root   4096 Sep 19 11:42 opt
dr-xr-xr-x 209 root root      0 Dec  6 08:44 proc
drwx──────  17 root root   4096 Dec  6 08:55 root
drwxr-xr-x  32 root root    800 Dec  6 08:45 run
lrwxrwxrwx   1 root root      8 Sep 19 11:30 sbin → usr/sbin
drwxr-xr-x   3 root root   4096 Sep 19 11:47 srv
dr-xr-xr-x  13 root root      0 Dec  6 08:44 sys
drwxrwxrwt  13 root root   4096 Dec  6 08:45 tmp
drwxr-xr-x  16 root root   4096 Sep 19 11:34 usr
drwxr-xr-x  12 root root   4096 Sep 19 11:33 var
lrwxrwxrwx   1 root root     30 Sep 19 11:31 vmlinuz → boot/vmlinuz-6.3.0-kal
i1-amd64
lrwxrwxrwx   1 root root     30 Sep 19 11:31 vmlinuz.old → boot/vmlinuz-6.3.0
-kali1-amd64
```

4. Cambiarse al directorio raíz

```
┌──(root💀Roque)-[~]
└─# cd /
```

5. Verificar el directorio actual

```
┌──(root💀Roque)-[/]
└─# pwd
/
```

6. Crear un directorio "prueba" en /home

```
┌──(root💀Roque)-[/]
└─# mkdir /home/prueba

┌──(root💀Roque)-[/]
└─# ls /home
prueba   roque
```

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

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

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

8. Verificar el usuario actual

```
┌──(root💀Roque)-[/]
└─# whoami
root
```

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

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

10. Copiar el archivo "test" a /root

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

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

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

12. Mover /root/test a la raíz

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

13. Hacer un ping a www.google.com

```
┌──(root💀Roque)-[/]
└─# ping www.google.com
PING www.google.com (142.250.217.228) 56(84) bytes of data.
64 bytes from mia07s62-in-f4.1e100.net (142.250.217.228): icmp_seq=1 ttl=116 time=48.8 ms
64 bytes from mia07s62-in-f4.1e100.net (142.250.217.228): icmp_seq=2 ttl=116 time=36.8 ms
64 bytes from mia07s62-in-f4.1e100.net (142.250.217.228): icmp_seq=3 ttl=116 time=46.5 ms
64 bytes from mia07s62-in-f4.1e100.net (142.250.217.228): icmp_seq=4 ttl=116 time=35.7 ms
64 bytes from mia07s62-in-f4.1e100.net (142.250.217.228): icmp_seq=5 ttl=116 time=39.1 ms
64 bytes from mia07s62-in-f4.1e100.net (142.250.217.228): icmp_seq=6 ttl=116 time=36.0 ms
64 bytes from mia07s62-in-f4.1e100.net (142.250.217.228): icmp_seq=7 ttl=116 time=39.0 ms
64 bytes from mia07s62-in-f4.1e100.net (142.250.217.228): icmp_seq=8 ttl=116 time=34.6 ms
64 bytes from mia07s62-in-f4.1e100.net (142.250.217.228): icmp_seq=9 ttl=116 time=38.3 ms
^C
--- www.google.com ping statistics ---
101 packets transmitted, 101 received, 0% packet loss, time 100117ms
rtt min/avg/max/mdev = 32.685/36.205/48.788/2.529 ms
```

14. Mostrar la configuración de red del servidor

```
┌──(root💀Roque)-[/]
└─# 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:fe7e:228d  prefixlen 64  scopeid 0x20<link>
        ether 08:00:27:7e:22:8d  txqueuelen 1000  (Ethernet)
        RX packets 208  bytes 23586 (23.0 KiB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 233  bytes 22397 (21.8 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
```

15. Usar el comando top

```
┌──(root㉿Roque)-[/]
└─# top
top - 09:07:51 up 22 min,  1 user,  load average: 0.47, 0.22, 0.13
Tasks: 151 total,   1 running, 150 sleeping,   0 stopped,   0 zombie
%Cpu(s):  0.0 us,100.0 sy,  0.0 ni,  0.0 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :   1964.1 total,    982.3 free,    711.1 used,    420.1 buff/cache
MiB Swap:    975.0 total,    975.0 free,      0.0 used,   1252.9 avail Mem

   PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
   888 root       9 -11   45004  13952   9984 S   0.0   0.7   0:00.09 pipewire
   889 root      20   0   21008   5504   4736 S   0.0   0.3   0:00.02 pipewire
   890 root       9 -11  485192  33792  25728 S   0.0   1.7   0:00.29 wireplumber
   891 root       9 -11   27752   8960   7424 S   0.0   0.4   0:00.07 pipewire-pulse
   892 root      20   0    9688   5208   4224 S   0.0   0.3   0:00.44 dbus-daemon
   893 root      20   0  314572  13772   8704 S   0.0   0.7   0:00.06 gnome-keyring-d
   906 root      20   0  341168  26424  16896 S   0.0   1.3   0:00.41 xfce4-session
   955 root      20   0   93248   1676   1408 S   0.0   0.1   0:00.00 VBoxClient
   957 root      20   0  225900   3852   3456 S   0.0   0.2   0:00.01 VBoxClient
   972 root      20   0   93248   1548   1280 S   0.0   0.1   0:00.00 VBoxClient
   974 root      20   0  226004   3212   2816 S   0.0   0.2   0:02.14 VBoxClient
   981 root      20   0   93248   1548   1280 S   0.0   0.1   0:00.00 VBoxClient
   983 root      20   0  226520   3084   2688 S   0.0   0.2   0:06.74 VBoxClient
   995 root      20   0    7908   1800   1024 S   0.0   0.1   0:00.01 ssh-agent
  1005 root      20   0  385036   9932   7168 S   0.0   0.5   0:00.01 at-spi-bus-laun
  1012 root      20   0    9360   4608   4096 S   0.0   0.2   0:00.20 dbus-daemon
  1023 root      20   0  238292  10172   7296 S   0.0   0.5   0:00.65 at-spi2-registr
  1036 root      20   0   81684   5328   3072 S   0.0   0.3   0:00.00 gpg-agent
  1038 root      20   0 1019116 102216  77332 S   0.0   5.1   0:11.59 xfwm4
  1042 root      20   0  312208  11580   6784 S   0.0   0.6   0:00.04 gvfsd
  1048 root      20   0  457652   8828   6144 S   0.0   0.4   0:00.01 gvfsd-fuse
  1062 root      20   0   93248   1548   1280 S   0.0   0.1   0:00.00 VBoxClient
  1063 root      20   0  226108   3340   2816 S   0.0   0.2   0:00.58 VBoxClient
  1077 root      20   0  305504  29792  19944 S   0.0   1.5   0:01.04 xfsettingsd
  1081 root      20   0  308092  10460   5632 S   0.0   0.5   0:00.37 upowerd
  1087 root      20   0  475236  45496  35044 S   0.0   2.3   0:02.36 xfce4-panel
  1092 root      20   0  415120  26484  17536 S   0.0   1.3   0:00.22 Thunar
  1098 root      20   0  473956  49868  34012 S   0.0   2.5   0:00.75 panel-1-whisker
  1099 root      20   0  483924  58096  36264 S   0.0   2.9   0:02.35 xfdesktop
  1106 root      20   0  278000  31436  19456 S   0.0   1.6   0:07.94 panel-13-cpugra
  1107 root      20   0  413916  25008  18304 S   0.0   1.2   0:00.21 panel-14-systra
  1108 root      20   0  432288  30420  21160 S   0.0   1.5   0:06.85 panel-15-genmon
  1109 root      20   0  543852  43948  35220 S   0.0   2.2   0:00.54 panel-16-pulsea
  1110 root      20   0  546676  46600  32384 S   0.0   2.3   0:00.27 panel-17-notifi
  1111 root      20   0  465324  45176  32928 S   0.0   2.2   0:00.87 panel-18-power-
```

16. Usar el comando netstat

```
┌──(root㉿Roque)-[/]
└─# netstat
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
udp        0      0 10.0.2.15:bootpc        10.0.2.2:bootps         ESTABLISHED
Active UNIX domain sockets (w/o servers)
Proto RefCnt Flags       Type       State         I-Node   Path
unix  3      [ ]         STREAM     CONNECTED     19234
unix  3      [ ]         STREAM     CONNECTED     20249    /run/user/0/bus
unix  3      [ ]         STREAM     CONNECTED     19374    /run/systemd/journal/stdout
unix  2      [ ]         DGRAM      CONNECTED     18828
unix  3      [ ]         DGRAM      CONNECTED     18575
unix  3      [ ]         STREAM     CONNECTED     18049    /run/systemd/journal/stdout
unix  3      [ ]         STREAM     CONNECTED     19138
unix  3      [ ]         STREAM     CONNECTED     18172
unix  3      [ ]         STREAM     CONNECTED     16666    /run/dbus/system_bus_socket
unix  3      [ ]         STREAM     CONNECTED     20176
unix  3      [ ]         STREAM     CONNECTED     19991    @/tmp/.X11-unix/X0
unix  3      [ ]         STREAM     CONNECTED     19200    /run/user/0/bus
unix  3      [ ]         STREAM     CONNECTED     19320    /run/user/0/bus
unix  3      [ ]         STREAM     CONNECTED     19229    @/tmp/.ICE-unix/906
unix  3      [ ]         STREAM     CONNECTED     20028    /run/user/0/at-spi/bus_0
unix  3      [ ]         STREAM     CONNECTED     19225    @/tmp/.X11-unix/X0
unix  3      [ ]         STREAM     CONNECTED     20634    /run/systemd/journal/stdout
unix  3      [ ]         STREAM     CONNECTED     20524
unix  3      [ ]         STREAM     CONNECTED     20311
unix  3      [ ]         STREAM     CONNECTED     30756
unix  2      [ ]         DGRAM                    20562
unix  3      [ ]         STREAM     CONNECTED     20038    /run/user/0/at-spi/bus_0
unix  3      [ ]         STREAM     CONNECTED     19284
unix  3      [ ]         STREAM     CONNECTED     18896    /run/systemd/journal/stdout
unix  3      [ ]         STREAM     CONNECTED     19411
unix  3      [ ]         STREAM     CONNECTED     19027
unix  3      [ ]         STREAM     CONNECTED     20664    /run/user/0/gvfsd/socket-a5qa6qgU
unix  3      [ ]         STREAM     CONNECTED     19941    /run/dbus/system_bus_socket
unix  3      [ ]         STREAM     CONNECTED     19433
```

17. Usar el comando traceroute

```
┌──(root💀Roque)-[/]
└─# traceroute
Usage:
  traceroute [ -46dFITnreAUDV ] [ -f first_ttl ] [ -g gate,... ] [ -i device ] [ -m max_ttl ] [ -N squeries ] [ -p p
ort ] [ -t tos ] [ -l flow_label ] [ -w MAX,HERE,NEAR ] [ -q nqueries ] [ -s src_addr ] [ -z sendwait ] [ --fwmark=n
um ] host [ packetlen ]
Options:
  -4                        Use IPv4
  -6                        Use IPv6
  -d  --debug               Enable socket level debugging
  -F  --dont-fragment       Do not fragment packets
  -f first_ttl  --first=first_ttl
                            Start from the first_ttl hop (instead from 1)
  -g gate,...   --gateway=gate,...
                            Route packets through the specified gateway
                            (maximum 8 for IPv4 and 127 for IPv6)
  -I  --icmp                Use ICMP ECHO for tracerouting
  -T  --tcp                 Use TCP SYN for tracerouting (default port is 80)
  -i device  --interface=device
                            Specify a network interface to operate with
  -m max_ttl  --max-hops=max_ttl
                            Set the max number of hops (max TTL to be
                            reached). Default is 30
  -N squeries  --sim-queries=squeries
```

18. Usar el comando nslookup

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

Non-authoritative answer:
Name:   www.google.com
Address: 142.250.217.228
Name:   www.google.com
Address: 2607:f8b0:4008:814::2004
```