# 12 DE OCTUBRE DE 2023

**TAREA #988** 

**SISTEMAS OPERATIVOS** 

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3. Listar el directorio Raíz.

4. Cambiar al directorio Raíz.

5. Verificar el directorio actual

```
| (kali⊕ kali)-[/]

/ pwd

/ (kali⊕ kali)-[/]

-$ ■
```

6. Crear un directorio "prueba" en /home

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

```
(kali@ kali)-[/home/prueba]
$ sudo touch test.txt

(kali@ kali)-[/home/prueba]
$ dir
test.txt
```

8. Verificar el usuario actual

```
(kali⊕ kali)-[/home/prueba]

$\text{whoami}
kali
```

9. Mostrar el contenido del archivo /root/.bash\_history

10. Copiar el archivo "test" a /root

```
(kali@kali)-[/home/prueba]
$\frac{\sudo}{\sudo} \text{ cp /home/prueba/test.txt /root/}
```

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

```
(kali@kali)-[/home/prueba]
sudo rm home/prueba/test
rm: cannot remove 'home/prueba/test': No such file or directory
```

12. Mover /root/test a raiz

```
(kali⊕ kali)-[/home/prueba]
$ sudo mv /root/test /
mv: cannot stat '/root/test': No such file or directory
```

13. Hacer un ping a 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=117 time=25.3 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=2 ttl=117 time=28.7 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=3 ttl=117 time=28.7 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=3 ttl=117 time=24.3 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=5 ttl=117 time=24.3 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=5 ttl=117 time=24.3 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=5 ttl=117 time=26.6 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=5 ttl=117 time=26.6 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=5 ttl=117 time=22.7 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=5 ttl=117 time=22.7 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=1 ttl=117 time=22.7 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=1 ttl=117 time=22.2 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=1 ttl=117 time=22.2 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=1 ttl=117 time=22.2 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=1 ttl=117 time=22.8 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=1 ttl=117 time=22.8 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=1 ttl=117 time=22.3 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=1 ttl=117 time=22.3 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=1 ttl=117 time=22.3 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=1 ttl=117 time=22.3 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=1 ttl=117 time=22.2 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=2 ttl=117 time=22.7 ms
64 byt
```

# 14. Mostrar la configuración de red del servidor

#### 15. Usar el comando netstat

```
(kali@kali)-[/home/prueba]
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address
                                               Foreign Address
                                                                        State
                   0 10.0.2.15:bootpc
                                                                        ESTABLISHED
udp
           0
                                               10.0.2.2:bootps
Active UNIX domain sockets (w/o servers)
Proto RefCnt Flags
                                                     I-Node
                          Type
                                      State
                                                               Path
                          STREAM
                                                               /run/user/1000/bus
unix 3
                                      CONNECTED
                                                     19026
unix
                          STREAM
                                      CONNECTED
                                                     20863
                          STREAM
                                      CONNECTED
                                                     20505
unix
                                                               /run/user/1000/at-spi/bus_0
                ]
unix
                          STREAM
                                      CONNECTED
                                                     19808
                          DGRAM
                                      CONNECTED
                                                     17253
unix
unix
                          STREAM
                                      CONNECTED
                                                     20625
                          STREAM
unix
                ]]]]]
                                      CONNECTED
                                                     17378
                                                              /run/dbus/system_bus_socket
                          STREAM
                                      CONNECTED
                                                     20653
unix
                                                              a/tmp/.ICE-unix/873
unix
                          STREAM
                                      CONNECTED
                                                     22610
unix
                          STREAM
                                      CONNECTED
                                                     19437
                                                     16767
unix
                          STREAM
                                      CONNECTED
unix
                          STREAM
                                      CONNECTED
                                                     19878
unix
                          STREAM
                                      CONNECTED
                                                     19404
                                                               /run/user/1000/at-spi/bus_0
                                      CONNECTED
                                                     19582
                                                              @/tmp/.X11-unix/X0
unix
                          STREAM
                          STREAM
                                      CONNECTED
                                                     20605
                                                              @/tmp/.X11-unix/X0
unix
unix
                          DGRAM
                                                     20820
                          STREAM
                                                     19814
                                      CONNECTED
unix
                ]]]]]
                          DGRAM
                                      CONNECTED
                                                     15210
unix
                          STREAM
unix
                                      CONNECTED
                                                     19383
                                                               /run/user/1000/at-spi/bus_0
                                                              a/tmp/.X11-unix/X0
unix
                          STREAM
                                      CONNECTED
                                                     19377
                                                               /run/user/1000/at-spi/bus_0
unix
                          STREAM
                                      CONNECTED
                                                     19781
                                                     18195
                                                               /run/dbus/system_bus_socket
unix
                          STREAM
                                      CONNECTED
                                                              @/tmp/.X11-unix/X0
unix
                          STREAM
                                      CONNECTED
                                                     19864
unix
                          STREAM
                                      CONNECTED
                                                     19197
unix
                          STREAM
                                      CONNECTED
                                                     19276
                                                               /run/user/1000/at-spi/bus_0
                          STREAM
                                                               /run/user/1000/bus
unix
                                      CONNECTED
                                                     20731
                          STREAM
                                      CONNECTED
                                                     20580
                                                               /run/systemd/journal/stdout
unix
                                                              @/tmp/.X11-unix/X0
                                      CONNECTED
                                                     20556
unix
                          STREAM
unix
                          STREAM
                                      CONNECTED
                                                     19867
                                                              @/tmp/.ICE-unix/873
unix
                          STREAM
                                      CONNECTED
                                                     19793
                                                     19658
unix
                          STREAM
                                      CONNECTED
unix
                          STREAM
                                      CONNECTED
                                                     16923
                                      CONNECTED
                                                     19434
                                                               /run/user/1000/at-spi/bus_0
unix
                          STREAM
unix
                          STREAM
                                      CONNECTED
                                                     19340
                                                              @/tmp/.X11-unix/X0
                          STREAM
                                                               /run/dbus/system_bus_socket
unix
                                      CONNECTED
                                                     17375
                                                     20806
                                                               /run/user/1000/bus
                          STREAM
                                      CONNECTED
unix
unix
                          STREAM
                                      CONNECTED
                                                     19827
                          STREAM
                                      CONNECTED
                                                     16784
unix
                                                               /run/user/1000/at-spi/bus_0
unix
                          STREAM
                                      CONNECTED
                                                     20611
                                                               /run/user/1000/at-spi/bus_0
unix
                          STREAM
                                      CONNECTED
                                                     19729
                                                               /run/user/1000/bus
                          STREAM
                                      CONNECTED
                                                     19045
unix
unix
                          DGRAM
                                      CONNECTED
                                                     15626
unix
                          STREAM
                                      CONNECTED
                                                     19769
                                                               /run/user/1000/at-spi/bus_0
```

### 16. Usar el comando top

```
—(<mark>kali⊛kali</mark>)-[/home/prueba]
top - 20:14:02 up 26 min, 1 user, load average: 0.17, 0.08, 0.03
Tasks: 152 total, 1 running, 150 sleeping, 1 stopped, 0 zombie
%Cpu(s): 0.5 us, 1.2 sy, 0.0 ni, 98.3 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 1967.1 total, 849.2 free, 758.6 used, 521.8 buff/cache
           1024.0 total,
                               1024.0 free,
MiB Swap:
                                                               1208.4 avail Mem
                                                   0.0 used.
                                             SHR S %CPU %MEM
                                                                       TIME+ COMMAND
    PID USER
                   PR NI
                             VIRT RES
                            417316 132540
                        0
                                                                      0:24.55 Xorg
                                             84592 S
   2057 kali
                    20
                             447912 103756
                                                        0.7
                                                               5.2
                                                                      0:05.03 gterminal
     15 root
                         0
                                                0
                                                        0.3
                                                               0.0
                                                                      0:00.62 rcu_preempt
                    20
                                0
                                         0
    946 kali
                        0 217968
                                       3200
                                              2816 S
                                                                      0:03.57 VBoxClient
                    20
                                                        0.3
                                                               0.2
                                                               5.8
   1000 kali
                    20
                         0 1029124 116936
                                             79684 S
                                                                      0:07.86 xfwm4
                                                        0.3
   1050 kali
                        0 549212 47176
                    20
                                             36092 S
                                                        0.3
                                                               2.3
                                                                      0:02.66 xfce4-panel
   1069 kali
                    20
                            277584
                                     32144
                                             19584 S
                                                                      0:04.57 panel-13-cpugra
                                                        0.3
                                                                      0:02.05 xfce4-notifyd
   1121 kali
                                             33628 S
                    20
                         0
                            470800
                                     49512
                                                        0.3
                                                               2.5
  14374 kali
                    20
                         0
                              11740
                                      5376
                                              3200 R
                                                        0.3
                                                               0.3
                                                                      0:00.02 top
                                      12668
                                              9340 S
                                                                      0:01.35 systemd
                                                        0.0
                                                               0.6
       2 root
                                0
                                         0
                                                0 S
                                                        0.0
                                                               0.0
                                                                      0:00.00 kthreadd
                                                                      0:00.00 rcu_gp
                    0 -20
                                                 0 I
       3 root
                                  0
                                          0
                                                               0.0
                                                        0.0
                                                                      0:00.00 rcu_par_gp
      4 root
                     0 -20
                                  0
                                          0
                                                 0 T
                                                        0.0
                                                               0.0
       5 root
                     0 -20
                                          0
                                                 0 I
                                                        0.0
                                                               0.0
                                                                      0:00.00 slub_flushwq
      6 root
                     0 -20
                                          0
                                                 0 I
                                                        0.0
                                                               0.0
                                                                      0:00.00 netns
                                                                      0:00.00 mm_percpu_wq
                     0 -20
                                                 0 I
     10 root
                                  0
                                          0
                                                        0.0
                                                               0.0
                    20 0
20 0
                                  0
                                                                      0:00.00 rcu_tasks_kthread
                                                 0 I
                                                        0.0
                                                               0.0
      12 root
                                                 0 I
                                                        0.0
                                                               0.0
                                                                      0:00.00 rcu_tasks_rude_kthread
                                  0
                                                 0 I
                                                                      0:00.00 rcu_tasks_trace_kthread
     13 root
                                                        0.0
                                                               0.0
     14 root
                    20
                        0
                                  0
                                          0
                                                 0 S
                                                               0.0
                                                                      0:00.14 ksoftirgd/0
                                                        0.0
                                                                      0:00.01 migration/0
                                                 0 S
     16 root
                        0
                                  0
                                          0
                                                        0.0
                                                               0.0
                                                                      0:00.00 idle_inject/0
     17 root
                                  0
                                          0
                                                 0 S
                                                        0.0
                                                               0.0
      19 root
                    20
                                                 0 S
                                                        0.0
                                                               0.0
                                                                      0:00.00 cpuhp/0
     20 root
                    20
                                          0
                                                 0 S
                                                        0.0
                                                               0.0
                                                                      0:00.00 cpuhp/1
                                                                      0:00.00 idle_inject/1
                                                 0 S
     21 root
                                  0
                                          0
                                                        0.0
                                                               0.0
                                                                      0:00.14 migration/1
     22 root
                         0
                                  0
                                          Ø
                                                 0 S
                                                        0.0
                                                               0.0
                                                 0 S
      23 root
                    20
                       0
                                          0
                                                        0.0
                                                               0.0
                                                                      0:00.16 ksoftirqd/1
     25 root
                                  0
                                          0
                                                 0 I
                                                                      0:00.00 kworker/1:0H-events_highpri
                                                        0.0
                                                               0.0
                                                 0 S
                                                                      0:00.00 kdevtmpfs
     28 root
                    20
                       0
                                  0
                                          0
                                                        0.0
                                                               0.0
                                                 0 T
     29 root
                    0 -20
                                  0
                                          0
                                                               0.0
                                                                      0:00.00 inet_frag_wq
                                                        0.0
     30 root
                                                                      0:00.00 kauditd
                    20
                        0
                                  0
                                          0
                                                 0 S
                                                        0.0
                                                               0.0
                                                 0 S
                                                        0.0
                                                               0.0
                                                                      0:00.00 khungtaskd
     32 root
                    20
                                  0
                                                 0 S
                                                        0.0
                                                               0.0
                                                                      0:00.00 oom_reaper
                                                                      0:00.05 kworker/u4:2-events_unbound
     33 root
                                                 0 I
                    20
                                  0
                                          0
                                                        0.0
                                                               0.0
                    0 -20
                                  0
                                          Ø
                                                                      0:00.00 writeback
                                                 0 I
                                                        0.0
                                                               0.0
      35 root
                                                 0 S
                                                        0.0
                                                               0.0
                                                                      0:00.06 kcompactd0
      36 root
                                                  0 S
                                                        0.0
                                                               0.0
                                                                      0:00.00 ksmd
      37 root
                                                 0 S
                                                        0.0
                                                               0.0
                                                                      0:00.19 khugepaged
```

17. Usar el comando traceroute

```
——(kali⊕kali)-[/home/prueba]
—$ traceroute
Usage:
traceroute [ -46dFITnreAUDV ] [ -f first_ttl ] [ -g gate, ... ] [ -i device ] [ -m max_ttl ] [ -N sq ueries ] [ -p port ] [ -t tos ] [ -l flow_label ] [ -w MAX,HERE,NEAR ] [ -q nqueries ] [ -s src_addr ] [ -z sendwait ] [ --fwmark=num ] host [ packetlen ]
Options:
                                    Use IPv4
                                    Use IPv6
      --debug
--dont-fragment
                                    Enable socket level debugging
                                    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)
                                    Use ICMP ECHO for tracerouting
       --icmp
       -- 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
                                    Set the number of probes to be tried
                                    simultaneously (default is 16)
                                    Do not resolve IP addresses to their domain names
                                    Set the destination port to use. It is either initial udp port value for "default" method (incremented by each probe, default is 33434), or
  -p port --port=port
                                    initial seq for "icmp" (incremented as well, default from 1), or some constant destination
                                    port for other methods (with default of 80 for "tcp", 53 for "udp", etc.)
  -t tos --tos=tos
                                    Set the TOS (IPv4 type of service) or TC (IPv6
                                     traffic class) value for outgoing packets
  -l flow_label -- flowlabel=flow_label
                                    Use specified flow_label for IPv6 packets
  -w MAX, HERE, NEAR --wait=MAX, HERE, NEAR
                                    Wait for a probe no more than HERE (default 3)
                                    times longer than a response from the same hop,
                                    or no more than NEAR (default 10) times than some
                                    next hop, or MAX (default 5.0) seconds (float
                                    point values allowed too)
  -a naueries -- aueries=naueries
                                    Set the number of probes per each hop. Default is
                                    Bypass the normal routing and send directly to a
                                    host on an attached network
```

## 18. Usar el comando nslookup

```
(kali® kali)-[/home/prueba]

$ nslookup

> 
> Tarea #988
;; communications error to 8.8.8.8#53: timed out
Server: 8.8.8.8
Address: 8.8.8.8#53

** server can't find Tarea: NXDOMAIN
>
```