



**UNIVERSIDAD  
POLITÉCNICA  
DE QUINTANA ROO**

**Formando Triunfadores**

**SISTEMAS OPERATIVOS  
ING. ISMAEL JIMENEZ SANCHEZ**

**TAREA #988 REALIZAR LOS SIGUIENTES EJERCICIOS Y  
DOCUMENTARLOS MEDIANTE CAPTURAS DE PANTALLA**

**GRUPO. 27AV SOFTWARE**

**MARTIN MARTINEZ ARIAS**

### 1. Asumir el prompt de superusuario.

REALIZADO EN MAC POR LO QUE NO TIENE PERMISOS DE SU.

### 2. Cambiar el password de superusuario.

REALIZADO EN MAC POR LO QUE NO TIENE PERMISOS DE SU.

### 3. Listar el directorio raíz.

```
imac_11_invitados@iMac-11 ~ % ls $(pwd)
Desktop          Postman
Documents        Public
Downloads        eclipse
Library          eclipse-workspace
Movies           matlab_crash_dump.1288-1
Music            matlab_crash_dump.1549-1
Pictures
imac_11_invitados@iMac-11 ~ %
```

### 4. Cambiarse al directorio raíz.

```
imac_11_invitados@iMac-11 ~ % cd
```

### 5. Verificar el directorio actual.

```
imac_11_invitados@iMac-11 ~ % pwd
/Users/imac_11_invitados
imac_11_invitados@iMac-11 ~ %
```

### 6. Crear un directorio prueba en /home.

```
imac_11_invitados@iMac-11 ~ % mkdir ../prueba
mkdir: ../prueba: Permission denied
imac_11_invitados@iMac-11 ~ % cd ..
imac_11_invitados@iMac-11 /Users % mkdir prueba
mkdir: prueba: Permission denied
imac_11_invitados@iMac-11 /Users %
```

### 7. Crear un archivo.

```
[imac_15_invitado@iMac-15 ~ % cd Prueba
[imac_15_invitado@iMac-15 Prueba % touch test
[imac_15_invitado@iMac-15 Prueba % ls
test
imac_15_invitado@iMac-15 Prueba %
```

### 8. Verificar el directorio actual.

```
imac_15_invitado@iMac-15 Prueba % whoami

imac_15_invitado
imac_15_invitado@iMac-15 Prueba %
```

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

```
imac_15_invitado@iMac-15 ~ % history
 37  ls
 38  rm prueba
 39  mkdir Prueba
 40  rmdir prueba
 41  ls
 42  mkdir Prueba
 43  ls
 44  cd Prueba
 45  touch test
 46  ls
 47  whoami\n
 48  cat ~/.bash_history\n
 49  less  ~/.bash_history\n
 50  cat ~/.bash_history\n
 51  history
 52  cd
imac_15_invitado@iMac-15 ~ %
```

10. Copiar el archivo “test” a `/root`.

```
imac_15_invitado@iMac-15 prueba % cp test /Users/imac_15_invitado
imac_15_invitado@iMac-15 prueba % cd
imac_15_invitado@iMac-15 ~ % ls
Applications      Library           Postman           eclipse-workspace
Desktop           Movies            Prueba            test
Documents         Music             Public
Downloads         Pictures          eclipse
```

11. Eliminar el archivo “test” de `/home/prueba`.

```
imac_15_invitado@iMac-15 ~ % cd prueba
imac_15_invitado@iMac-15 prueba % rm test
imac_15_invitado@iMac-15 prueba % ls
imac_15_invitado@iMac-15 prueba %
```

12. Mover `/root/test` a la raíz.

REALIZADO EN MAC POR LO QUE NO TIENE PERMISOS DE SU.

### 13. Hacer un ping a [www.google.com](http://www.google.com).

```
imac_15_invitado@iMac-15 prueba % ping www.google.com
PING www.google.com (142.250.189.132): 56 data bytes
64 bytes from 142.250.189.132: icmp_seq=0 ttl=118 time=21.594 ms
64 bytes from 142.250.189.132: icmp_seq=1 ttl=118 time=28.869 ms
64 bytes from 142.250.189.132: icmp_seq=2 ttl=118 time=28.139 ms
64 bytes from 142.250.189.132: icmp_seq=3 ttl=118 time=40.819 ms
64 bytes from 142.250.189.132: icmp_seq=4 ttl=118 time=29.363 ms
64 bytes from 142.250.189.132: icmp_seq=5 ttl=118 time=31.109 ms
64 bytes from 142.250.189.132: icmp_seq=6 ttl=118 time=31.279 ms
64 bytes from 142.250.189.132: icmp_seq=7 ttl=118 time=24.643 ms
64 bytes from 142.250.189.132: icmp_seq=8 ttl=118 time=31.049 ms
64 bytes from 142.250.189.132: icmp_seq=9 ttl=118 time=30.964 ms
64 bytes from 142.250.189.132: icmp_seq=10 ttl=118 time=29.002 ms
64 bytes from 142.250.189.132: icmp_seq=11 ttl=118 time=30.946 ms
64 bytes from 142.250.189.132: icmp_seq=12 ttl=118 time=28.840 ms
64 bytes from 142.250.189.132: icmp_seq=13 ttl=118 time=27.082 ms
64 bytes from 142.250.189.132: icmp_seq=14 ttl=118 time=26.938 ms
64 bytes from 142.250.189.132: icmp_seq=15 ttl=118 time=29.221 ms
64 bytes from 142.250.189.132: icmp_seq=16 ttl=118 time=27.266 ms
64 bytes from 142.250.189.132: icmp_seq=17 ttl=118 time=29.077 ms
64 bytes from 142.250.189.132: icmp_seq=18 ttl=118 time=22.998 ms
64 bytes from 142.250.189.132: icmp_seq=19 ttl=118 time=23.487 ms
64 bytes from 142.250.189.132: icmp_seq=20 ttl=118 time=22.020 ms
64 bytes from 142.250.189.132: icmp_seq=21 ttl=118 time=28.977 ms
64 bytes from 142.250.189.132: icmp_seq=22 ttl=118 time=30.450 ms
64 bytes from 142.250.189.132: icmp_seq=23 ttl=118 time=25.414 ms
64 bytes from 142.250.189.132: icmp_seq=24 ttl=118 time=24.628 ms
64 bytes from 142.250.189.132: icmp_seq=25 ttl=118 time=28.788 ms
64 bytes from 142.250.189.132: icmp_seq=26 ttl=118 time=29.749 ms
64 bytes from 142.250.189.132: icmp_seq=27 ttl=118 time=74.272 ms
```

### 14. Mostrar la configuración de red del servidor.

```
imac_15_invitado@iMac-15 ~ % netstat -tuln

Active LOCAL (UNIX) domain sockets
Address      Type Recv-Q Send-Q      Inode      Conn      Refs      Nextref Addr
7240087d8446479b stream      0      0          0 7240087d844646d3      0      0 /var/run/mDNSRe
sponder
7240087d844646d3 stream      0      0          0 7240087d8446479b      0      0
7240087d84463e3b stream      0      0 72400873ebfb9913      0      0 /var/folders/y0
/f986bqhd2cs9dmlptzmkqsrh0000gp/T/.com.google.Chrome.U7jEMw/SingletonSocket
7240087d84463be3 stream      0      0          0 7240087d84463b1b      0      0 /var/run/mDNSRe
sponder
7240087d84463b1b stream      0      0          0 7240087d84463be3      0      0
7240087d8446334b stream      0      0          0 7240087d844630f3      0      0 /var/run/mDNSRe
sponder
7240087d844630f3 stream      0      0          0 7240087d8446334b      0      0
7240087d84463283 stream      0      0          0 7240087d844631bb      0      0 /var/run/mDNSRe
sponder
7240087d844631bb stream      0      0          0 7240087d84463283      0      0
7240087d84463413 stream      0      0          0 7240087d8446302b      0      0 /var/run/mDNSRe
sponder
7240087d8446302b stream      0      0          0 7240087d84463413      0      0
7240087d84462c43 stream      0      0          0 7240087d84462b7b      0      0 /var/run/mDNSRe
sponder
7240087d84462b7b stream      0      0          0 7240087d84462c43      0      0
7240087d84462ab3 stream      0      0          0 7240087d844629eb      0      0 /var/run/mDNSRe
sponder
7240087d844629eb stream      0      0          0 7240087d84462ab3      0      0
7240087d84462923 stream      0      0          0 7240087d8446285b      0      0 /var/run/mDNSRe
sponder
7240087d8446285b stream      0      0          0 7240087d84462923      0      0
```



## 15. Usar el comando netstat en linux.

```

imac15_invitado@iMac-15 ~ % netstat
Active Internet connections
Proto Recv-Q Send-Q Local Address Foreign Address (state)
tcp4 0 0 192.168.128.10.49432 mia09s26-in-f4.1.https CLOSE_WAIT
tcp4 0 0 192.168.128.10.49431 ym-in-f94.1e100.https ESTABLISHED
tcp4 0 0 192.168.128.10.49429 mia09s26-in-f10.https ESTABLISHED
tcp4 0 0 192.168.128.10.49428 mia09s26-in-f10.https ESTABLISHED
tcp4 0 0 192.168.128.10.49426 tzmiaa-ad-in-f3.https ESTABLISHED
tcp4 0 0 192.168.128.10.49424 lcmiaa-aa-in-f13.https ESTABLISHED
tcp4 0 0 192.168.128.10.49423 104.18.37.228.https ESTABLISHED
tcp4 0 0 192.168.128.10.49422 tzmiaa-ad-in-f14.https ESTABLISHED
tcp4 0 0 192.168.128.10.49421 lcmiaa-aa-in-f14.https ESTABLISHED
tcp4 0 0 192.168.128.10.49398 mia07s62-in-f14.https ESTABLISHED
tcp4 0 0 192.168.128.10.49397 dns.google.https ESTABLISHED
tcp4 0 0 192.168.128.10.49369 181.214.120.34.b.https ESTABLISHED
tcp4 0 0 192.168.128.10.49280 whatsapp-cdn-shv.https ESTABLISHED
tcp4 0 0 192.168.128.10.49191 yk-in-f188.1e100.5228 ESTABLISHED
tcp4 0 0 192.168.128.10.59927 17.57.144.40.5223 ESTABLISHED
udp4 0 0 *.* *.*
udp4 0 0 *.* *.*
udp4 0 0 *.* *.*
udp4 0 0 *.* *.*
udp4 0 0 *.* *.*
udp4 0 0 *.* *.*
udp4 0 0 *.* *.*
udp4 0 0 *.* *.*
udp4 0 0 *.* *.*
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udp4 0 0 *.* *.*
udp4 0 0 *.* *.*
udp4 0 0 *.* *.*
udp4 0 0 *.* *.*

```

## 16. Usar el comando top en linux.

```

Processes: 443 total, 2 running, 441 sleeping, 1760 threads
Load Avg: 1.25, 1.32, 1.36 CPU usage: 2.99% user, 2.63% sys, 94.37% idle
Sharedlibs: 885M resident, 129M data, 63M linkedit.
MemRegions: 103522 total, 2347M resident, 528M private, 1483M shared.
PhysMem: 9790M used (1315M wired, 0B compressor), 5907M unused.
VM: 174T vszize, 4283M framework vszize, 0(0) swaptins, 0(0) swapouts. Networks: packets: 88810/59M in, 43606/22M out.
Disks: 212515/3257M read, 99601/1660M written.
17:53:18

PID COMMAND %CPU TIME #TH #WQ #PORT MEM PURG CMPR PGRP PPID STATE BOOSTS NCPU_ME NCPU_OTHERS
366 WindowServer 22.5 05:41.64 18 4 1586- 463M+ 8512K- 0B 366 1 sleeping +0[1] 0.05992 0.16152
0 kernel_task 6.5 03:05.03 471/8 0 0 8896K 0B 0 0 running 0[0] 0.00000 0.00000
1258 screencaptur 6.1 00:00.51 3 2 65 7938K+ 752K 0B 568 568 sleeping +0[404+] 0.20818 0.00000
1257 top 4.2 00:01.96 1/1 0 29 4913K 0B 0 1257 1233 running +0[1] 0.00000 0.00000
358 bluetoothd 2.5 00:48.93 10 4 290 8465K 208K 0B 358 1 sleeping +0[1] 0.26090 0.00000
933 Google Chrom 0.7 01:43.03 23 3 217 352M 68M 0B 921 921 sleeping +1[2] 0.00000 0.00000
1259 screencaptur 0.7 00:00.11 3 1 147 7618K 0B 0 1259 1 sleeping +0[290+] 0.00000 0.20818
846 Terminal 0.7 00:31.51 6 1 269 49M 33M 0B 846 1 sleeping +0[433] 0.00944 0.00000
921 Google Chrom 0.5 01:54.00 44 1 705 153M 160K 0B 921 1 sleeping +0[491] 0.00000 0.00000
934 Google Chrom 0.2 00:20.22 16 1 109 27M- 0B 0 921 921 sleeping +0[3] 0.00000 0.00000
298 logd 0.2 00:07.23 4 3 1387 10M 0B 0 298 1 sleeping +0[1] 0.00000 0.00000
361 corebrightne 0.1 00:08.08 6 5 116 3201K 0B 0 361 1 sleeping +0[1] 0.15208 0.00000
344 locationd 0.1 00:06.94 6 4 235 7137K 224K 0B 344 1 sleeping +0[2241+] 0.00000 0.10326
995 Google Chrom 0.1 03:00.98 18 1 314 226M 0B 0 921 921 sleeping +0[7] 0.00000 0.00000
633 sharingd 0.1 00:05.10 5 1 285 9713K 0B 0 633 1 sleeping +0[1] 0.00000 0.03706
311 powerd 0.1 00:02.74 3 2 119 3137K 0B 0 311 1 sleeping +0[1] 0.00000 0.05992
500 searchpartyd 0.1 00:05.22 7 5 106 6273K+ 96K 0B 500 1 sleeping +0[1774+] 0.00000 0.08408
451 audioclocksy 0.1 00:04.39 4 3 59 4353K 0B 0 451 1 sleeping +0[1] 0.03193 0.00000
705 nearbyd 0.0 00:02.22 5 3 73 4385K 0B 0 705 1 sleeping +0[3920+] 0.00000 0.04227
408 coreaudioid 0.0 00:10.31 8 2 439 35M 0B 0 408 1 sleeping +0[1] 0.00000 0.03193
400 airportd 0.0 00:08.51 9 7 262 7025K 0B 0 400 1 sleeping +50[1] 0.00000 0.00000
351 PerfPowerSer 0.0 00:09.28 4 2 305 8193K 320K 0B 351 1 sleeping 0[49] 0.00000 0.00000
996 Google Chrom 0.0 00:00.61 10 1 153 18M 0B 0 921 921 sleeping +0[6] 0.00000 0.00000
619 heard 0.0 00:01.45 4 3 108 5153K 0B 0 619 1 sleeping +0[1] 0.00000 0.00000
335 thermalmonit 0.0 00:02.56 3 2 46 2033K 0B 0 335 1 sleeping +0[1] 0.00000 0.00000
371 contextstore 0.0 00:00.92 3 2 123+ 4993K+ 144K 0B 371 1 sleeping 0[248] 0.00000 0.00000
559 universalacc 0.0 00:00.37 3 1 179- 7329K- 0B 0 559 1 sleeping +1[20] 0.00000 0.00000
468 symptomsd 0.0 00:00.87 2 1 86- 4593K- 144K 0B 468 1 sleeping 0[12] 0.00000 0.00000
302 uninstalld 0.0 00:00.17 2 1 26- 1505K- 0B 0 302 1 sleeping +0[1] 0.00000 0.00000
401 trustd 0.0 00:03.41 2 1 108+ 4401K+ 816K 0B 401 1 sleeping 0[673] 0.00000 0.00000
502 applehl3came 0.0 00:00.37 5 2 93 3425K 0B 0 502 1 sleeping +0[1] 0.00000 0.00000
1027 searchpartyu 0.0 00:00.74 7 6 144 6849K 32K 0B 1027 1 sleeping 0[16] 0.00000 0.00000

```

**17. Usar el comando traceroute en linux.**

```
imac_15_invitado@iMac-15 ~ % traceroute
Version 1.4a12+Darwin
Usage: traceroute [-adDeFIInrSvx] [-A as_server] [-f first_ttl] [-g gateway] [-i iface]
        [-M first_ttl] [-m max_ttl] [-p port] [-P proto] [-q nqueries] [-s src_addr]
        [-t tos] [-w waittime] [-z pausesecs] host [packetlen]
imac_15_invitado@iMac-15 ~ %
```

**18. Usar el comando nslookup en linux.**

```
[imac_15_invitado@iMac-15 ~ % nslookup
[>
[>
>
zsh: suspended nslookup
imac_15_invitado@iMac-15 ~ %
```