

**Universidad politécnica de quintana roo**

**Sistemas Operativos  
Ingeniería en software  
7° cuatrimestre**

**12/10/2023**

**Comandos Ejercicios**

**Ake Prott David Roman  
202100077**



1. Asumir el prompt de superusuario: omitido
2. Cambiar el password de superusuario: omitido
3. Listar directorio raíz: ls -l

```
[imac_15_invitado@iMac-15 ~ % ls -l
total 0
drwx-----@ 3 imac_15_invitado staff    96 Sep 26 11:07 Applications
drwx-----+ 6 imac_15_invitado staff   192 Sep  8 07:32 Desktop
drwx-----@ 15 imac_15_invitado staff   480 Oct 12 12:20 Documents
drwx-----+ 18 imac_15_invitado staff   576 Oct 12 12:20 Downloads
drwx-----@ 87 imac_15_invitado staff  2784 Sep 22 13:12 Library
drwx-----  4 imac_15_invitado staff   128 Jun 29 12:41 Movies
drwx-----+ 6 imac_15_invitado staff   192 Sep 19 12:24 Music
drwx-----+ 5 imac_15_invitado staff   160 Sep 19 12:12 Pictures
drwxr-xr-x@ 3 imac_15_invitado staff    96 Jul 10 17:18 Postman
drwxr-xr-x+ 4 imac_15_invitado staff   128 Jun 28 15:35 Public
drwxr-xr-x@ 4 imac_15_invitado staff   128 Sep  8 07:32 eclipse
drwxr-xr-x@ 3 imac_15_invitado staff    96 Sep  8 07:33 eclipse-workspace
imac_15_invitado@iMac-15 ~ % ]
```

4. Cambiar al directorio raíz: cd

```
[imac_15_invitado@iMac-15 ~ % cd
[imac_15_invitado@iMac-15 ~ % pwd
/Users/imac_15_invitado
imac_15_invitado@iMac-15 ~ % ]
```

5. Verificar el directorio actual

```
[imac_15_invitado@iMac-15 ~ % pwd
/Users/imac_15_invitado
imac_15_invitado@iMac-15 ~ % ]
```

6. Crear un directorio “prueba” en /home

```
imac_15_invitado@iMac-15 ~ % mkdir Prueba
imac_15_invitado@iMac-15 ~ % ls
Applications          Library          Postman          eclipse-workspace
Desktop              Movies           Prueba
Documents            Music            Public
Downloads            Pictures          eclipse
imac_15_invitado@iMac-15 ~ % ]
```

7. Crear un archivo “test” en directorio/home/prueba

```
[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 usuario actual

```
imac_15_invitado@iMac-15 ~ % whoami  
  
imac_15_invitado  
imac_15_invitado@iMac-15 ~ %
```

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  
imac_15_invitado@iMac-15 ~ %
```

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

13. Hacer un ping a 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          0 72400873ebfb9913          0          0 /var/folders/y0
/f986bqhdc59dm1ptzmksrh0000gp/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

## 16. Usar el comando top

```
Processes: 443 total, 2 running, 441 sleeping, 1760 threads                               17:53:18
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), 5987M unused.
VM: 174T vszie, 4283M framework vszie, 0(0) swapins, 0(0) swapouts. Networks: packets: 88810/59M in, 43606/22M out.
Disks: 212515/3257M read, 99601/1660M written.

PID  COMMAND    %CPU TIME #TH #WQ #PORT MEM PURG CMPR PGPR PPID STATE BOOSTS %CPU_ME %CPU_OHRS
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 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[1404+] 0.29818 0.00000
1257 top 4.2 00:01.96 1/1 0 29 4913K 0B 0B 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] 0.26890 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 0B 1259 1 sleeping *0[299+] 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 1 785 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 0B 921 921 sleeping *0[3] 0.00000 0.00000
298 logd 0.2 00:07:23 4 3 1387 18M 0B 0B 298 1 sleeping *0[1] 0.00000 0.00000
361 corebrightness 0.1 00:08:00 6 5 116 3201K 0B 0B 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 0B 921 921 sleeping *0[7] 0.00000 0.00000
633 sharingd 0.1 00:05.10 5 1 285 9713K 0B 0B 633 1 sleeping *0[1] 0.00000 0.03706
311 powerd 0.1 00:02:74 3 2 119 3137K 0B 0B 311 1 sleeping *0[1] 0.00000 0.05992
560 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 0B 451 1 sleeping *0[1] 0.03193 0.00000
705 nearbyd 0.0 00:02:22 5 3 73 4385K 0B 0B 705 1 sleeping *0[3920+] 0.00000 0.04227
408 coreaudioqd 0.0 00:10:31 8 2 439 35M 0B 0B 408 1 sleeping *0[1] 0.00000 0.03193
400 airportd 0.0 00:08:51 9 7 262 7025K 0B 0B 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 0B 921 921 sleeping *0[6] 0.00000 0.00000
619 heard 0.0 00:01:45 4 3 108 5153K 0B 0B 619 1 sleeping *0[1] 0.00000 0.00000
335 thermalmonit 0.0 00:02:56 3 2 46 2033K 0B 0B 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 0B 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
382 uninstalld 0.0 00:00:17 2 1 26- 1505K- 0B 0B 302 1 sleeping *0[1] 0.00000 0.00000
481 trustd 0.0 00:03:41 2 1 108+ 4401K+ 816K 0B 401 1 sleeping 0[673] 0.00000 0.00000
502 appleh13camc 0.0 00:00:37 5 2 93 3425K 0B 0B 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

```
imac_15_invitado@iMac-15 ~ % traceroute
Version 1.4a12+Darwin
Usage: traceroute [-adDeFInrSvx] [-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

```
imac_15_invitado@iMac-15 ~ % nslookup
> www.google.com
Server:          8.8.8.8
Address:         8.8.8.8#53

Non-authoritative answer:
Name:   www.google.com
Address: 142.250.189.132
>
zsh: suspended  nslookup
imac_15_invitado@iMac-15 ~ %
```