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Sistemas Operativos

27BV

Ingeniera de software

UPQROO

1-Asumir el prompt de superusuario

2-Cambiar la contraseña del super usuario

```
[admin@fedora ~]$ whoami
admin
[admin@fedora ~]$ sudo -s
[sudo] contraseña para admin:
Lo siento, pruebe otra vez.
[sudo] contraseña para admin:
Lo siento, pruebe otra vez.
[sudo] contraseña para admin:
[root@fedora admin]# sudo passwd -dl root
sudo: passwd: command not found
[root@fedora admin]# sudo passwd -dl root
sudo: passwd: command not found
[root@fedora admin]# sudo passwd luis
passwd: Nombre de usuario desconocido 'luis'.
[root@fedora admin]# sudo passwd -dl root
passwd: Sólo se puede especificar uno de -l, -u, -d, -S.
[root@fedora admin]# sudo -i
[root@fedora ~]# passwd
Cambiando la contraseña del usuario root.
Nueva contraseña:
CONTRASEÑA INCORRECTA: La contraseña tiene menos de 8 caracteres
Vuelva a escribir la nueva contraseña:
```

3-Listar el directorio raíz

4-Cambiarse al directorio raíz

```
[root@fedora ~]# cd ../
[root@fedora /]# ls
afs  boot  etc  lib  lost+found  mnt  proc  run  srv  tmp  var
bin  dev  home  lib64  media  opt  root  sbin  sys  usr
```

5-Verificar el directorio actual

6-Crear un directorio prueba en /home

7.Crea un archivo en /home/prueba

```
root@fedora:~
[+]
[root@fedora home]# mkdir prueba
[root@fedora prueba]# touch test
[root@fedora prueba]# ls
test
[root@fedora prueba]# pwd
/home/prueba
[root@fedora prueba]#
```

## 8-Comprueba el usuario actual

```
[root@fedora ~]# whoami
root
[root@fedora ~]#
```

## 9-Mostrar el contenido del archivo .bash\_history

```
[root@fedora ~]# cat .bash_history
yum install git
[root@fedora ~]#
```

## 10-Copiar el archivo test a /root

```
[root@fedora prueba]# cp test ../../root
[root@fedora prueba]# cd
[root@fedora ~]# ls
anaconda-ks.cfg  prueba  test
[root@fedora ~]#
```

## 11-Eliminar el archivo test de home/prueba

```
[root@fedora home]# cd prueba
[root@fedora prueba]# rm test
rm: ¿borrar el fichero regular vacío 'test'? (s/n) s
[root@fedora prueba]#
```

## 12- Mover root/test a la raíz

```
[root@fedora ~]# cd ../
[root@fedora /]# ls
afs  boot  etc  lib  lost+found  mnt  proc  run  srv  tmp  var
bin  dev  home  lib64  media  opt  root  sbin  sys  usr
[root@fedora /]#
```

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

```
[root@fedora /]# ping www.google.com
PING www.google.com (172.217.215.147) 56(84) bytes of data.
64 bytes from yo-in-f147.1e100.net (172.217.215.147): icmp_seq=1 ttl=106 time=33.4 ms
64 bytes from yo-in-f147.1e100.net (172.217.215.147): icmp_seq=2 ttl=106 time=31.0 ms
64 bytes from yo-in-f147.1e100.net (172.217.215.147): icmp_seq=3 ttl=106 time=32.8 ms
^C
--- www.google.com ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2003ms
rtt min/avg/max/mdev = 31.024/32.421/33.442/1.022 ms
[root@fedora /]#
```

#### 14-Mostrar la configuración de red

```
[root@fedora /]# ifconfig
enp0s3: 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::ff41:c4d:95c9:97e4 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:53:7f:75 txqueuelen 1000 (Ethernet)
    RX packets 650530 bytes 980187761 (934.7 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 93528 bytes 5842565 (5.5 MiB)
    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 46 bytes 3842 (3.7 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 46 bytes 3842 (3.7 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[root@fedora /]#
```

#### 15-Usa el comando netstat

```
[root@fedora /]# netstat
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
tcp        39      0 fedora:42262            yo-in-f132.1e100.:https ESTABLISHED
tcp        39      0 fedora:42280            yo-in-f132.1e100.:https ESTABLISHED
tcp        39      0 fedora:42278            yo-in-f132.1e100.:https ESTABLISHED
udp         0      0 fedora:bootpc           _gateway:bootps        ESTABLISHED
Active UNIX domain sockets (w/o servers)
Proto RefCnt Flags               Type                   State                  I-Node   Path
unix    3      [ ]                   STREAM                 CONNECTED              26195
unix    3      [ ]                   STREAM                 CONNECTED              19581
unix    3      [ ]                   STREAM                 CONNECTED              26369    /run/user/1000/at-spi
/bus
unix    3      [ ]                   DGRAM                 CONNECTED              16511
unix    3      [ ]                   STREAM                 CONNECTED              26378
unix    3      [ ]                   STREAM                 CONNECTED              25797    /run/user/1000/waylan
d-0
unix    3      [ ]                   STREAM                 CONNECTED              25492
unix    2      [ ]                   DGRAM                 CONNECTED              19257
unix    3      [ ]                   STREAM                 CONNECTED              24827
```

## 16-Usa el comando top

```
[root@fedora /]# top

top - 18:29:25 up 1:03, 1 user, load average: 0.45, 0.16, 0.08
Tasks: 213 total, 1 running, 212 sleeping, 0 stopped, 0 zombie
%Cpu(s): 1.0 us, 1.0 sy, 0.0 ni, 93.4 id, 0.0 wa, 2.4 hi, 2.1 si, 0.0 st
MiB Mem : 1954.0 total, 119.4 free, 1251.6 used, 583.0 buff/cache
MiB Swap: 1953.0 total, 1266.2 free, 686.8 used. 526.8 avail Mem

  PID USER      PR  NI   VIRT   RES   SHR  S  %CPU  %MEM     TIME+ COMMAND
 1669 admin    20   0 3672088 297964 84664 S   4.7  14.9   1:30.57 gnome-s+
 3032 admin    20   0 847212  42816 34940 S   1.7   2.1   0:10.44 gnome-t+
  576 systemd+ 20   0  15176   3712  3456 S   0.7   0.2   0:06.88 systemd+
 4159 root      20   0 225188   3840  3072 R   0.3   0.2   0:00.03 top
    1 root      20   0 229688  11692  6552 S   0.0   0.6   0:02.40 systemd
    2 root      20   0      0      0      0 S   0.0   0.0   0:00.00 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+
    5 root       0 -20      0      0      0 I   0.0   0.0   0:00.00 slub_fl+
    6 root       0 -20      0      0      0 I   0.0   0.0   0:00.00 netns
   10 root       0 -20      0      0      0 I   0.0   0.0   0:00.00 mm_perc+
   11 root      20   0      0      0      0 I   0.0   0.0   0:01.65 kworker+
   12 root      20   0      0      0      0 I   0.0   0.0   0:00.00 rcu_tas+
```

## 17-Usa el comando traceroute

```
[root@fedora /]# traceroute
Usage:
  traceroute [ -4dFITnreAUDV ] [ -f first_ttl ] [ -g gate,... ] [ -i device ] [
  -m max_ttl ] [ -N squeries ] [ -p port ] [ -t tos ] [ -l flow_label ] [ -w MAX,
  HERE,NEAR ] [ -q nqueries ] [ -s src_addr ] [ -z sendwait ] [ --fwmark=num ] hos
  t [ 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
```

## 18-usa el comando lookup

```
[root@fedora /]# nslookup google.com
Server:          127.0.0.53
Address:         127.0.0.53#53

Non-authoritative answer:
Name:   google.com
Address: 64.233.176.139
Name:   google.com
Address: 64.233.176.100
Name:   google.com
Address: 64.233.176.138
Name:   google.com
Address: 64.233.176.102
Name:   google.com
Address: 64.233.176.113
Name:   google.com
Address: 64.233.176.101
Name:   google.com
Address: 2607:f8b0:4002:c08::65
```