1-Asumir el prompt de superusuario

```
jhonking@debian:~$ su -
Password:
root@debian:~#
```

2-Cambiar el password del superusuario

```
root@debian:~# passwd
New password:
Retype new password:
passwd: password updated successfully
root@debian:~#
```

3-Listar el directorio raiz

```
jhonking@debian:~$ ls /
bin    home            lib32       media  root  sys  vmlinuz
boot   initrd.img      lib64       mnt    run   tmp  vmlinuz.old
dev    initrd.img.old  libx32      opt    sbin  usr
etc    lib             lost+found  proc   srv   var
jhonking@debian:~$
```

4-Cambiarse al directorio raiz

```
jhonking@debian:~$ cd
jhonking@debian:~$
```

5.- Verificar el directorio actual

```
jhonking@debian:~$ cd
jhonking@debian:~$ pwd
/home/jhonking
jhonking@debian:~$
```

6.- Crear un directorio "prueba" en /home

```
root@debian:/home# mkdir prueba
root@debian:/home# ls /
bin    home              lib32        media  root  sys  vmlinuz
boot   initrd.img        lib64        mnt    run   tmp  vmlinuz.old
dev    initrd.img.old    libx32       opt    sbin  usr
etc    lib               lost+found   proc   srv   var
root@debian:/home# ls
jhonking  prueba
root@debian:/home#
```

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

```
root@debian:/home# cd prueba
root@debian:/home/prueba# touch test
root@debian:/home/prueba# ls
test
```

8-Verificar el usuario actual

```
root@debian:/home/prueba# whoami
root
root@debian:/home/prueba#
```

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

```
Terminal - jhonking@debian: /home                    ^ _ □ X
File  Edit  View  Terminal  Tabs  Help
root@debian:/home/prueba# whoami
root
root@debian:/home/prueba# cat /root/.bash_history
cd /media/cdrom0
ls
sh VBoxLinuxAdditions.run
reboot
sudo nano /etc/ssh/sshd_config
$ sudo service ssh reload
sudo service ssh reload
exit
sudo apt-get upgrade
sudo apt-get update
sudo apt-get install openssh-server
sudo service ssh start
cd ~/.ssh
ssh-keygen
cat id_rsa.pub >> authorized_keys
ssh-keygen
cat id_rsa.pub >> authorized_keys
chmod 640 authorized_keys
sudo service ssh restart
ssh localhost
exit
```

10-Copiar el archivo "test" a /root

```
root@debian:/home/prueba# cp test /root/
root@debian:/home/prueba# cd root
bash: cd: root: No such file or directory
root@debian:/home/prueba# cd /root/
root@debian:~# ls
test
root@debian:~#
```

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

```
root@debian:~# rm /home/prueba/test
```

12-Mover /root/test a la raiz

```
root@debian:/home/prueba# mv /root/test /test
```

13-Hacer un ping a www.google.com

```
root@debian:~# ping 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 tim
e=32.9 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=2 ttl=117 tim
e=24.3 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=3 ttl=117 tim
e=26.4 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=4 ttl=117 tim
e=28.9 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=5 ttl=117 tim
e=26.2 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=6 ttl=117 tim
e=26.8 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=7 ttl=117 tim
e=26.2 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=8 ttl=117 tim
e=40.9 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=9 ttl=117 tim
e=27.6 ms
64 bytes from mia09s26-in-f4.1e100.net (142.250.189.132): icmp_seq=10 ttl=117 ti
```

14-Mostrar la configuracion de red del servidor

```
root@debian:~# ip address
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group defaul
t qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
       valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP gr
oup default qlen 1000
    link/ether 08:00:27:58:b8:81 brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3
       valid_lft 82804sec preferred_lft 82804sec
    inet6 fe80::a00:27ff:fe58:b881/64 scope link noprefixroute
       valid_lft forever preferred_lft forever
root@debian:~#
```

15.- Usar el comando netstat

```
root@debian:~# ss -tuln
Netid  State   Recv-Q  Send-Q    Local Address:Port     Peer Address:Port Process
udp    UNCONN  0       0              0.0.0.0:631            0.0.0.0:*
udp    UNCONN  0       0              0.0.0.0:35938          0.0.0.0:*
udp    UNCONN  0       0              0.0.0.0:5353           0.0.0.0:*
udp    UNCONN  0       0                [::]:38119            [::]:*
udp    UNCONN  0       0                [::]:5353             [::]:*
tcp    LISTEN  0       128            0.0.0.0:22             0.0.0.0:*
tcp    LISTEN  0       128          127.0.0.1:631            0.0.0.0:*
tcp    LISTEN  0       128              [::]:22               [::]:*
tcp    LISTEN  0       128             [::1]:631              [::]:*
root@debian:~#
```

16.- Usar el comando top

```
root@debian:~# top

top - 22:49:46 up  1:03,  1 user,  load average: 0.32, 0.46, 0.36
Tasks: 170 total,   1 running, 168 sleeping,   1 stopped,   0 zombie
%Cpu(s):  0.7 us,  1.1 sy,  0.0 ni, 97.9 id,  0.0 wa,  0.0 hi,  0.4 si,  0.0 st
MiB Mem :   1967.2 total,    143.2 free,   1609.6 used,    393.9 buff/cache
MiB Swap:    975.0 total,    777.0 free,    198.0 used.    357.6 avail Mem

    PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
   1399 root      20   0  410036 108348  50824 S   1.0   5.4   1:31.85 Xorg
   1511 jhonking   9 -11 1178844  20664  11696 S   0.7   1.0   0:29.60 pulseau+
   1594 jhonking  20   0  217464   1540   1436 S   0.7   0.1   0:03.84 VBoxCli+
   4829 root      20   0   11632   5052   3164 R   0.7   0.3   0:00.05 top
   1602 jhonking  20   0  217980   1604   1580 S   0.3   0.1   0:14.81 VBoxCli+
   1610 jhonking  20   0  217436   1312   1272 S   0.3   0.1   0:01.38 VBoxCli+
   1652 jhonking  20   0  586420  47228  40184 S   0.3   2.3   0:15.41 xfwm4
   1684 jhonking  20   0  432956  38120  15792 S   0.3   1.9   0:03.46 xfdeskt+
```

17.- Usar el comando traceroute

```
root@debian:~# traceroute www.google.com
traceroute to www.google.com (142.250.189.132), 30 hops max, 60 byte packets
 1  10.0.2.2 (10.0.2.2)  1.412 ms  1.347 ms  1.209 ms
 2  * * *
 3  * * *
 4  * * *
 5  * * *
 6  * * *
 7  * * *
 8  * * *
 9  * * *
10  * * *
11  * * *
12  * * *
13  * * *
14  * * *
15  * * *
16  * * *
17  * * *^Z
[3]+  Stopped                 traceroute www.google.com
```

18.- Usar el comando nslookup

```
root@debian:~# 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
Name:   www.google.com
Address: 2607:f8b0:4008:809::2004

root@debian:~#
```