LINUX

Tarea #988

Asignatura:

Sistemas Operativos

Nombre:

Márquez Nahuat Bernardo Rommel

Docente:

Ismael Jimenez S

1.- Asumir el prompt de superusuario

sudo su

```
bernardo@bernardo-VirtualBox:~$ sudo su
[sudo] contraseña para bernardo:
root@bernardo-VirtualBox:/home/bernardo#
```

2.- Cambiar el password del superusuario

sudo passwd

```
root@bernardo-VirtualBox:/home/bernardo# sudo passwd
Nueva contraseña:
Vuelva a escribir la nueva contraseña:
passwd: contraseña actualizada correctamente
root@bernardo-VirtualBox:/home/bernardo#
```

3.- Listar el directorio raiz

ls /

```
root@bernardo-VirtualBox:/home/bernardo# ls /
bin    cdrom   etc    lib     lib64   lost+found   mnt   proc   run    snap   swapfile   tmp   var
boot   dev     home   lib32   libx32  media        opt   root   sbin   srv    sys        usr
root@bernardo-VirtualBox:/home/bernardo#
```

4.- Cambiarse al directorio raiz

cd /

```
root@bernardo-VirtualBox:/home/bernardo# cd /
root@bernardo-VirtualBox:/#
```

5.- Verificar el directorio actual

pwd

```
root@bernardo-VirtualBox:/# pwd
/
root@bernardo-VirtualBox:/#
```

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

sudo mkdir /home/prueba

```
root@bernardo-VirtualBox:/# sudo mkdir /home/prueba
root@bernardo-VirtualBox:/#
```

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

sudo touch /home/prueba/test

```
root@bernardo-VirtualBox:/# sudo touch /home/prueba/test
root@bernardo-VirtualBox:/#
```

8.- Verificar el usuario actual

whoami

```
root@bernardo-VirtualBox:/# whoami
root
root@bernardo-VirtualBox:/#
```

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

cat /root/.bash_history

```
root@bernardo-VirtualBox:/# cat /root/.bash_history
passwd
ls/
ls /
cd /
pwd
mkdir /home/prueba
touch /home/prueba/test
whoami
cat/root/.bash_history
cat /root/.bash_history
cat /root/ .bash_history
cat /root/.bash_history
cat /root/ .bash_history
cat /root/.bash_history
clear
cat root/.bash_history
sudo rm /home/prueba
sudo rm -r prueba
ls /
cd /
pwd
sudo mkdir /home/prueba
sudo touch /home/prueba/test
whoami
cat /root/.bash_history
sudo cp /home/prueba/test /root/
```

10.- Copiar el archivo "test" a /root

sudo cp /home/prueba/test /root/

```
root@bernardo-VirtualBox:/# sudo cp /home/prueba/test /root/
root@bernardo-VirtualBox:/#
```

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

sudo rm /home/prueba/test

```
root@bernardo-VirtualBox:/# sudo rm /home/prueba/test
root@bernardo-VirtualBox:/#
```

12.- Mover /root/test a la raiz

sudo mv /root/test /

```
root@bernardo-VirtualBox:/# sudo mv /root/test /
root@bernardo-VirtualBox:/#
```

13.- Hacer un ping a www.google.com

ping www.google.com

```
root@bernardo-VirtualBox:/# sudo mv /root/test /
root@bernardo-VirtualBox:/# ping www.google.com
PING www.google.com (142.250.105.104) 56(84) bytes of data.
64 bytes from yt-in-f104.1e100.net (142.250.105.104): icmp_seq=1 ttl=109 time=37.0 ms
64 bytes from yt-in-f104.1e100.net (142.250.105.104): icmp_seq=2 ttl=109 time=32.9 ms
64 bytes from yt-in-f104.1e100.net (142.250.105.104): icmp_seq=3 ttl=109 time=33.6 ms
64 bytes from yt-in-f104.1e100.net (142.250.105.104): icmp_seq=4 ttl=109 time=33.1 ms
64 bytes from yt-in-f104.1e100.net (142.250.105.104): icmp_seq=5 ttl=109 time=33.0 ms
64 bytes from yt-in-f104.1e100.net (142.250.105.104): icmp_seq=6 ttl=109 time=33.9 ms
64 bytes from yt-in-f104.1e100.net (142.250.105.104): icmp_seq=7 ttl=109 time=34.1 ms
64 bytes from yt-in-f104.1e100.net (142.250.105.104): icmp_seq=8 ttl=109 time=32.7 ms
64 bytes from yt-in-f104.1e100.net (142.250.105.104): icmp_seq=9 ttl=109 time=32.6 ms
64 bytes from yt-in-f104.1e100.net (142.250.105.104): icmp_seq=10 ttl=109 time=32.0 ms
64 bytes from yt-in-f104.1e100.net (142.250.105.104): icmp_seq=11 ttl=109 time=32.2 ms
64 bytes from yt-in-f104.1e100.net (142.250.105.104): icmp_seq=12 ttl=109 time=32.8 ms
64 bytes from yt-in-f104.1e100.net (142.250.105.104): icmp_seq=13 ttl=109 time=32.0 ms
64 bytes from yt-in-f104.1e100.net (142.250.105.104): icmp_seq=14 ttl=109 time=33.3 ms
64 bytes from yt-in-f104.1e100.net (142.250.105.104): icmp_seq=15 ttl=109 time=467 ms
64 bytes from yt-in-f104.1e100.net (142.250.105.104): icmp_seq=16 ttl=109 time=33.3 ms
^C
--- www.google.com ping statistics ---
16 packets transmitted, 16 received, 0% packet loss, time 15523ms
rtt min/avg/max/mdev = 32.004/60.379/467.315/105.076 ms
root@bernardo-VirtualBox:/#
```

14.- Mostrar la configuracion de red del servidor

ifconfig

```
root@bernardo-VirtualBox:/# 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::1f8e:d164:793:127e  prefixlen 64  scopeid 0x20<link>
        ether 08:00:27:ab:82:40  txqueuelen 1000  (Ethernet)
        RX packets 44588  bytes 64910444 (64.9 MB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 11841  bytes 893018 (893.0 KB)
        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  (Bucle local)
        RX packets 516  bytes 50699 (50.6 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 516  bytes 50699 (50.6 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

root@bernardo-VirtualBox:/#
```

15.- Usar el comando netstat

netstat -tuln

```
root@bernardo-VirtualBox:/# netstat
Conexiones activas de Internet (servidores w/o)
Proto  Recib Enviad Dirección local          Dirección remota       Estado
udp        0      0 bernardo-Virtual:bootpc _gateway:bootps         ESTABLECIDO
Sockets activos de dominio UNIX (servidores w/o)
Proto RefCnt Flags       Type       State       I-Node   Ruta
unix  3      [ ]         DGRAM      CONECTADO   17931    /run/systemd/notify
unix  2      [ ]         DGRAM                  29685    /run/user/1000/systemd/notify
unix  2      [ ]         DGRAM                  17946    /run/systemd/journal/syslog
unix  18     [ ]         DGRAM      CONECTADO   17956    /run/systemd/journal/dev-log
unix  8      [ ]         DGRAM      CONECTADO   17960    /run/systemd/journal/socket
unix  3      [ ]         FLUJO      CONECTADO   37018    /run/user/1000/bus
unix  3      [ ]         FLUJO      CONECTADO   33787
```

```
root@bernardo-VirtualBox:/# netstat -tuln
Conexiones activas de Internet (solo servidores)
Proto  Recib Enviad Dirección local          Dirección remota       Estado
tcp        0      0 127.0.0.53:53            0.0.0.0:*              ESCUCHAR
tcp        0      0 127.0.0.1:631            0.0.0.0:*              ESCUCHAR
tcp6       0      0 ::1:631                  :::*                   ESCUCHAR
udp        0      0 0.0.0.0:631              0.0.0.0:*
udp        0      0 127.0.0.53:53            0.0.0.0:*
udp        0      0 0.0.0.0:5353             0.0.0.0:*
udp        0      0 0.0.0.0:35184            0.0.0.0:*
udp6       0      0 :::5353                  :::*
udp6       0      0 :::56738                 :::*
root@bernardo-VirtualBox:/#
```

16.- Usar el comando top

top

```
Tareas: 187 total,    1 ejecutar,  186 hibernar,    0 detener,    0 zombie
%Cpu(s):  4.9 usuario,  7.3 sist,  0.0 adecuado, 87.8 inact,  0.0 en espera,  0.0 hardw in
MiB Mem :   1963.9 total,    130.3 libre,    962.9 usado,    870.7 búfer/caché
MiB Intercambio:    455.6 total,    246.1 libre,    209.5 usado.    823.3 dispon Mem

    PID USUARIO   PR  NI    VIRT    RES    SHR S  %CPU  %MEM     HORA+ ORDEN
  20808 root      20   0   21864   3912   3268 R   5.3   0.2   0:00.03 top
      1 root      20   0  103648  11612   7624 S   0.0   0.6   0:06.07 systemd
      2 root      20   0       0      0      0 S   0.0   0.0   0:00.01 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_gp
      5 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 slub_flushwq
      6 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 netns
      8 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/0:0H-even+
     10 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 mm_percpu_wq
     11 root      20   0       0      0      0 S   0.0   0.0   0:00.00 rcu_tasks_rude_
     12 root      20   0       0      0      0 S   0.0   0.0   0:00.00 rcu_tasks_trace
     13 root      20   0       0      0      0 S   0.0   0.0   0:00.76 ksoftirqd/0
     14 root      20   0       0      0      0 I   0.0   0.0   0:02.91 rcu_sched
     15 root      rt   0       0      0      0 S   0.0   0.0   0:00.04 migration/0
     16 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/0
     18 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/0
     19 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/1
     20 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/1
     21 root      rt   0       0      0      0 S   0.0   0.0   0:00.47 migration/1
     22 root      20   0       0      0      0 S   0.0   0.0   0:00.34 ksoftirqd/1
root@bernardo-VirtualBox:/#
```

17.- Usar el comando traceroute

traceroute www.google.com

```
root@bernardo-VirtualBox:/# traceroute www.google.com
traceroute to www.google.com (172.253.124.104), 30 hops max, 60 byte packets
 1  _gateway (10.0.2.2)  3.603 ms  3.251 ms  3.189 ms
 2  * * *
 3  * * *
 4  * * *
 5  * * *
 6  * * *
 7  * * *
 8  * * *
 9  * * *
10  * * *
11  * * *
12  * * *
13  * * *
14  * * *
15  * * *
16  * * *
17  * * *
18  * * *
19  * * *
20  * * *
21  * * *
22  * * *
23  * * *
24  * * *
25  * * *
26  * * *
```

18.- Usar el comando nslookup

nslookup www.google.com

```
root@bernardo-VirtualBox:/# nslookup www.google.com
Server:          127.0.0.53
Address:         127.0.0.53#53

Non-authoritative answer:
Name:    www.google.com
Address: 172.253.124.99
Name:    www.google.com
Address: 172.253.124.103
Name:    www.google.com
Address: 172.253.124.106
Name:    www.google.com
Address: 172.253.124.147
Name:    www.google.com
Address: 172.253.124.105
Name:    www.google.com
Address: 172.253.124.104
Name:    www.google.com
Address: 2607:f8b0:4002:c02::67
Name:    www.google.com
Address: 2607:f8b0:4002:c02::63
Name:    www.google.com
Address: 2607:f8b0:4002:c02::68
Name:    www.google.com
Address: 2607:f8b0:4002:c02::93

root@bernardo-VirtualBox:/# 
```