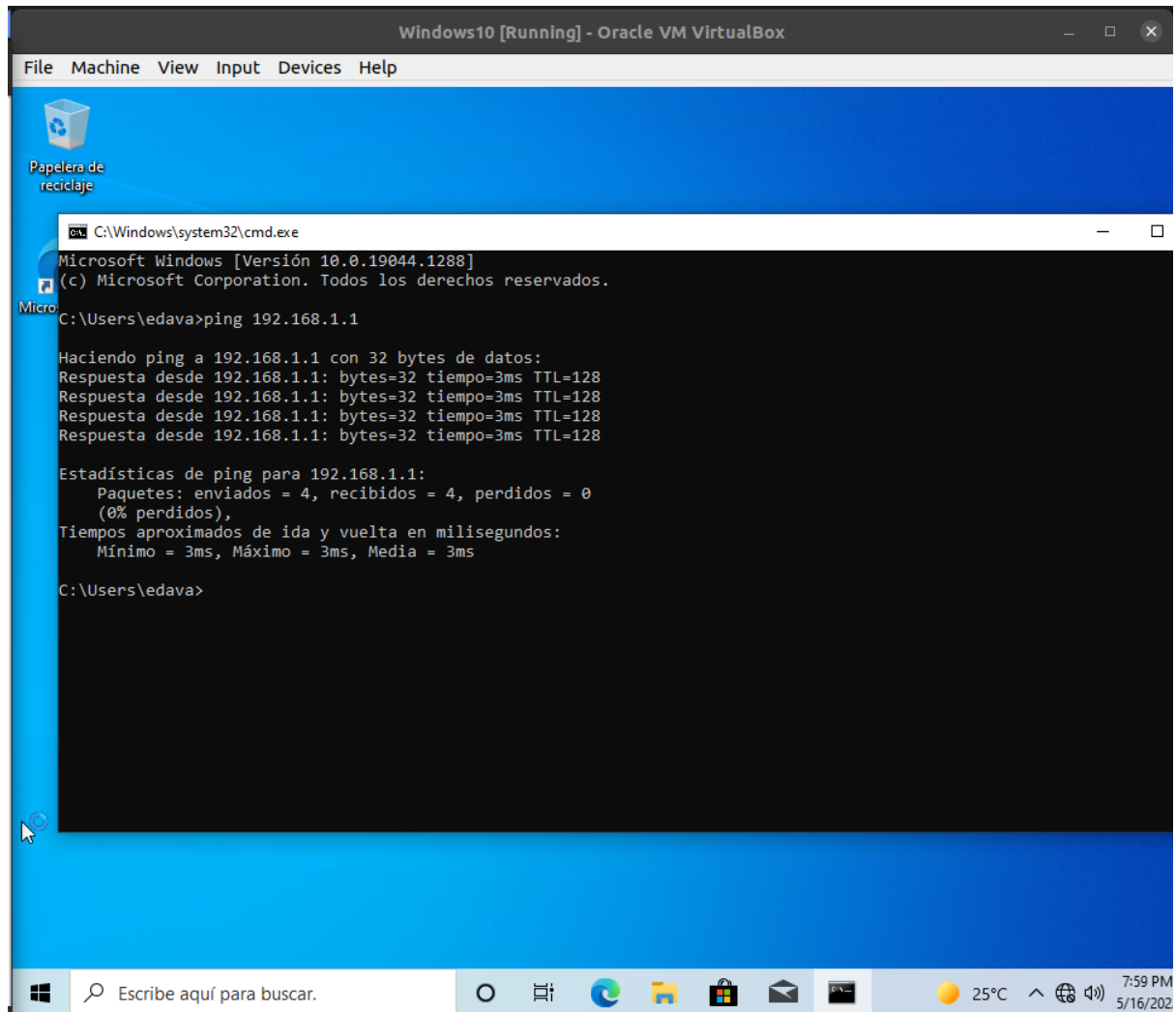


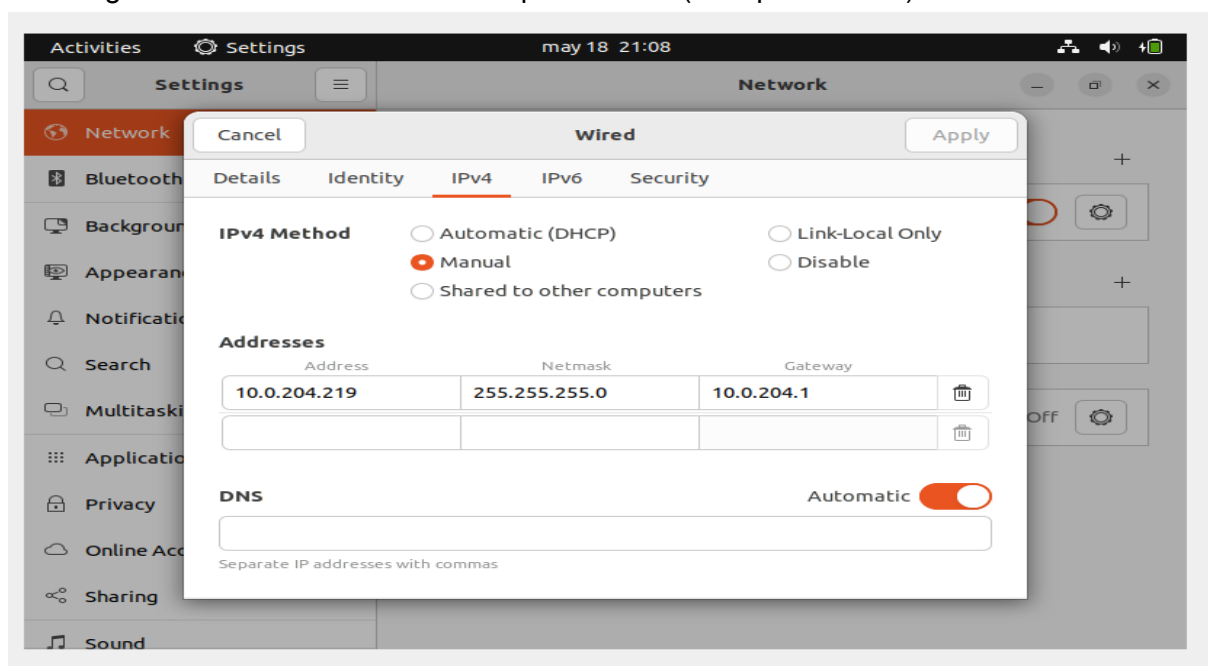
COMPUTER NETWORKS

EDISON ALCOGER (he hecho lo que he podido)

1. Configura la red de Windows de tu máquina Virtual (ver apartado 1.2)



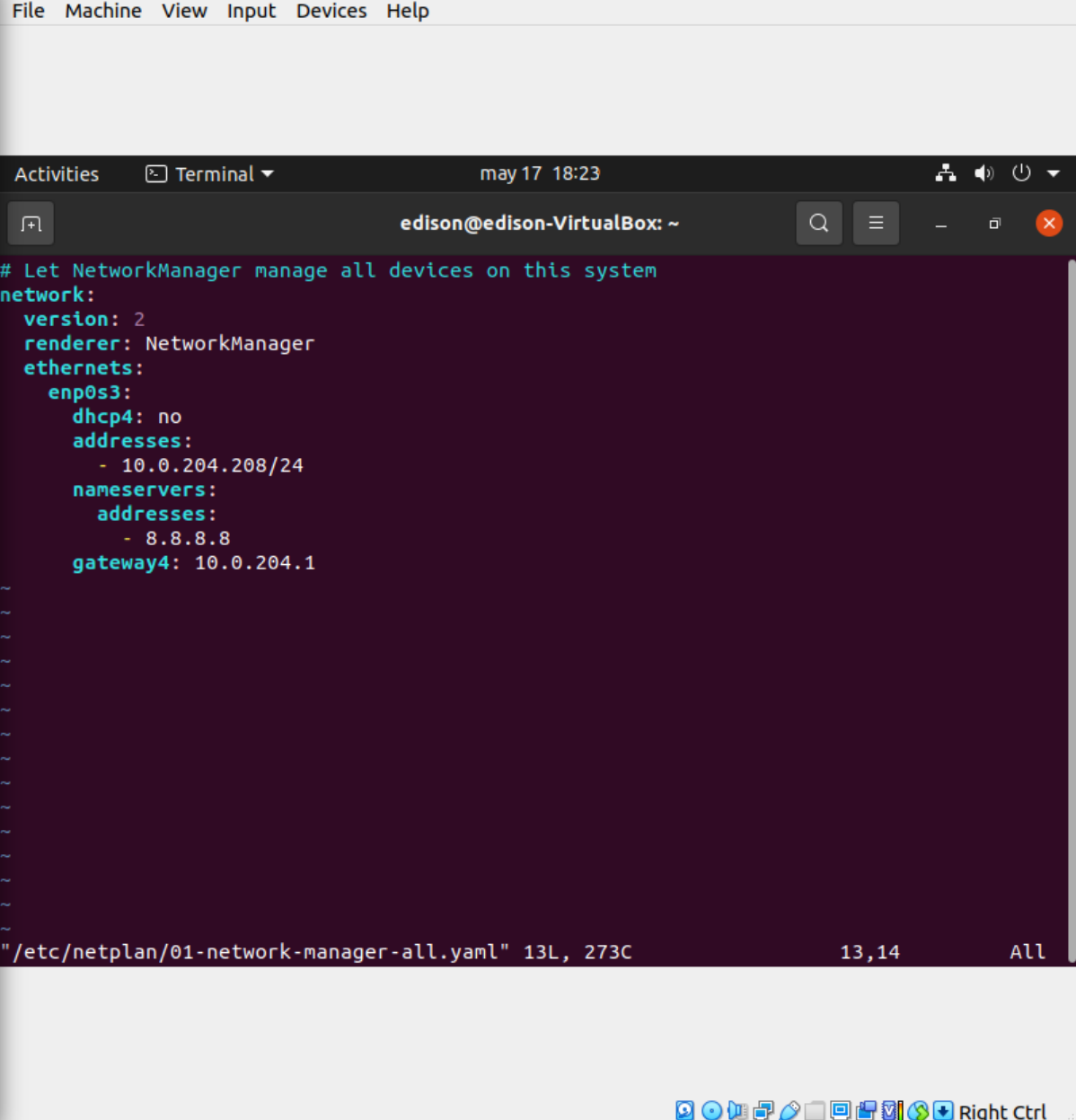
2. Configura la red de Ubuntu en tu máquina Virtual (ver apartado 1.3)



COMPUTER NETWORKS

EDISON ALCOCER (he hecho lo que he podido)

3. Busca información sobre la utilidad de configuración de red NetPlan e instálala en tu MV de Ubuntu. Configura la IP estática en tu máquina virtual utilizando esta utilidad.

A screenshot of a terminal window within a VirtualBox environment. The window title is 'edison@edison-VirtualBox: ~'. The terminal shows a NetPlan configuration file being edited. The configuration is for the 'network' section, version 2, using NetworkManager as the renderer. It defines an ethernet interface 'enp0s3' with a static IP address of 10.0.204.208/24, nameservers at 8.8.8.8, and a gateway at 10.0.204.1. The status bar at the bottom of the terminal indicates the file path '/etc/netplan/01-network-manager-all.yaml' with line 13, column 273C, and a cursor at line 13, column 14. The bottom of the window shows a taskbar with various application icons and a 'Right Ctrl' label.

```
File Machine View Input Devices Help

Activities Terminal may 17 18:23

edison@edison-VirtualBox: ~

# Let NetworkManager manage all devices on this system
network:
  version: 2
  renderer: NetworkManager
  ethernets:
    enp0s3:
      dhcp4: no
      addresses:
        - 10.0.204.208/24
      nameservers:
        addresses:
          - 8.8.8.8
      gateway4: 10.0.204.1

"/etc/netplan/01-network-manager-all.yaml" 13L, 273C 13,14 All
```

```
edison@edison-VirtualBox:~$ sudo netplan try
Do you want to keep these settings?

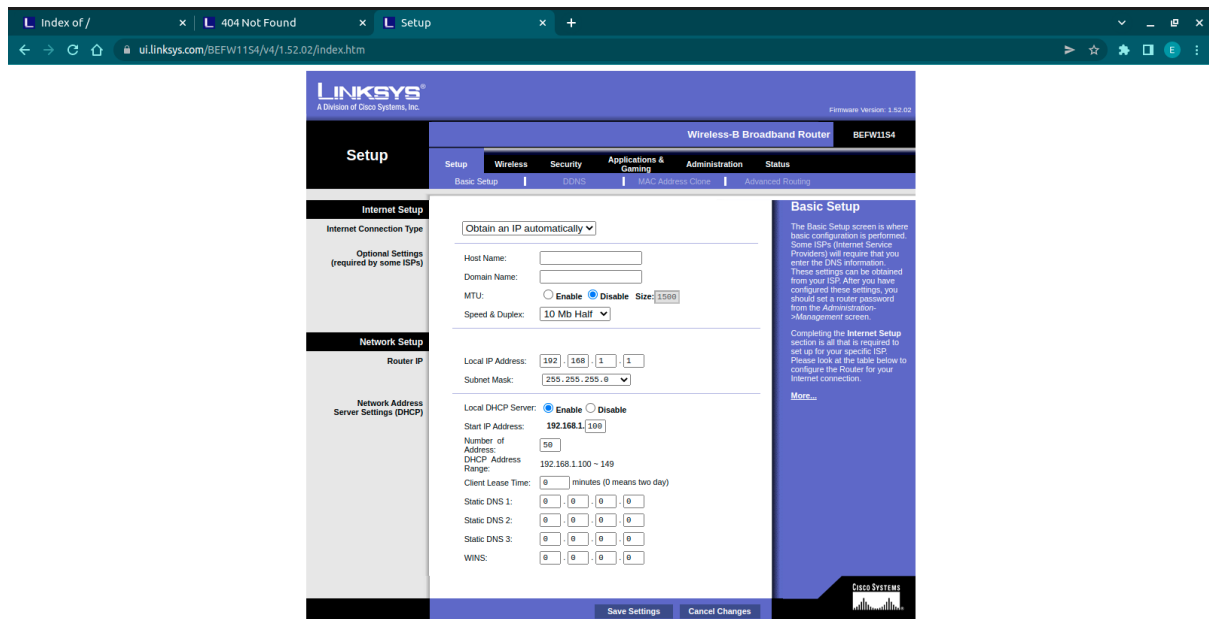
Press ENTER before the timeout to accept the new configuration

Changes will revert in 117 seconds
Configuration accepted.
edison@edison-VirtualBox:~$
```

COMPUTER NETWORKS

EDISON ALCOECER (he hecho lo que he podido)

4. Accede a la siguiente dirección Web: <http://ui.linksys.com/> o en el cuadro de búsqueda de GOOGLE teclea "linksys simuladores". Los simuladores van a permitir realizar configuraciones de puntos de acceso y routers sin necesidad de tener estos dispositivos físicamente. Prueba diferentes configuraciones para los routers y AP que proponen. Apunta aquellas características que no entiendas y busca en la Web su utilidad. (Ej router wifi: <https://ui.linksys.com/BEFW11S4/v4/1.52.02/index.htm>)



MTU: ☐ Enable ☒ Disable Size: 1500

What is MTU?

In **networking**, maximum transmission unit (MTU) is a measurement representing the largest **data packet** that a network-connected device will accept. Imagine it as being like a height limit for freeway underpasses or tunnels: Cars and trucks that exceed the height limit cannot fit through, just as packets that exceed the MTU of a network cannot pass through that network.

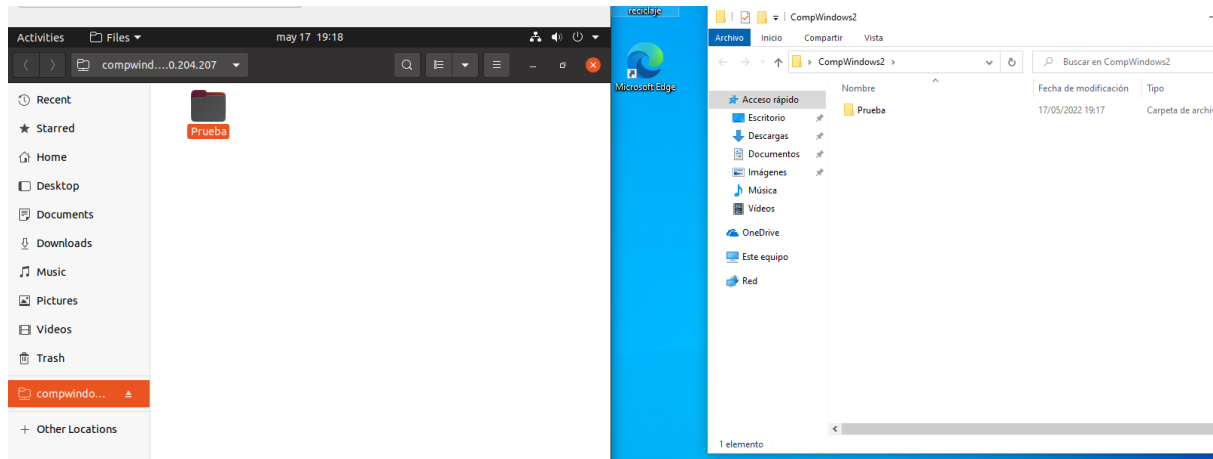
However, unlike cars and trucks, data packets that exceed MTU are broken up into smaller pieces so that they can fit through. This process is called fragmentation. Fragmented packets are reassembled once they reach their destination.

MTU is measured in bytes — a "byte" is equal to 8 bits of information, meaning 8 ones and zeroes. 1,500 bytes is the maximum MTU size.

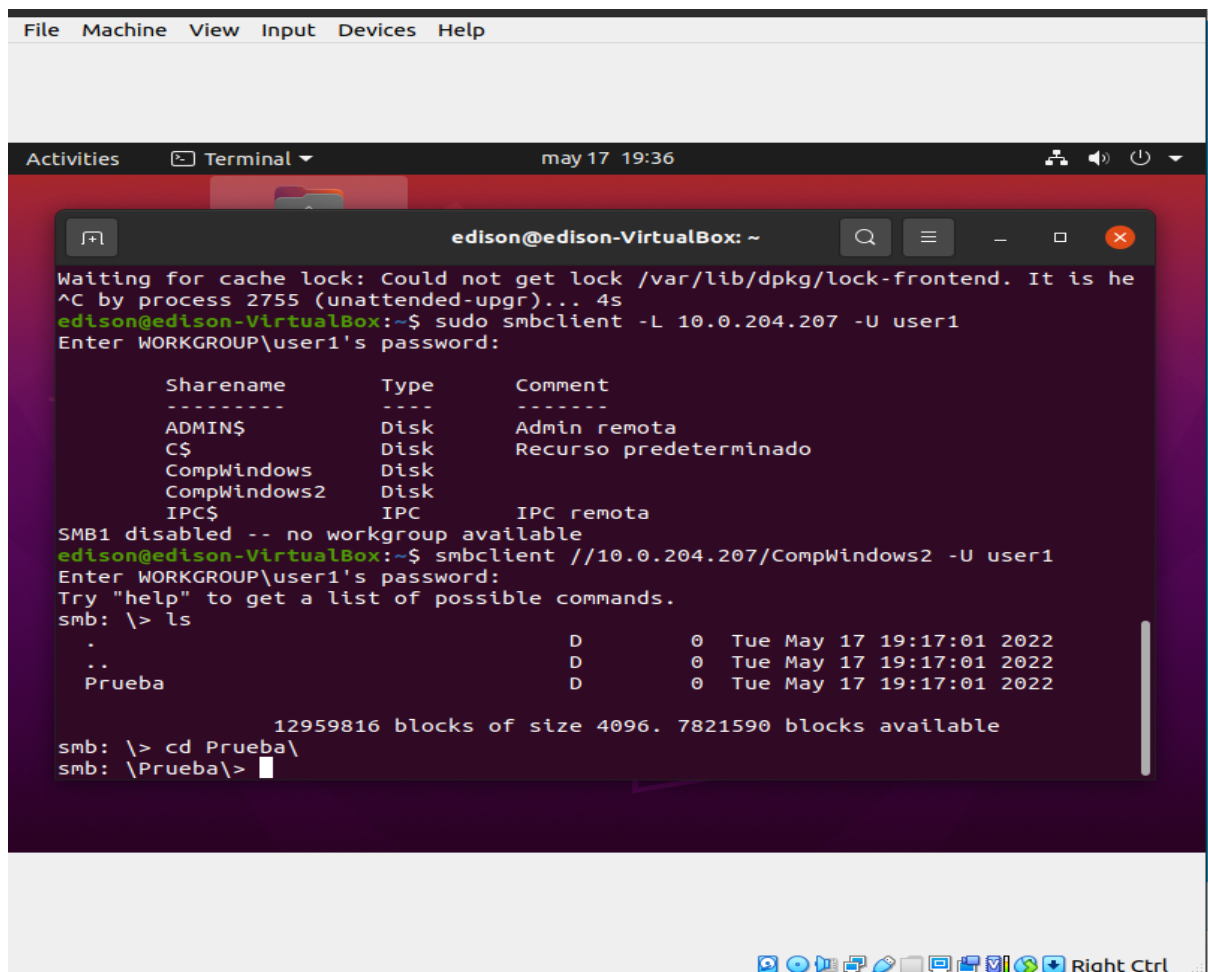
COMPUTER NETWORKS

EDISON ALCOCER (he hecho lo que he podido)

5. Modifica el nivel de acceso de la carpeta CompWindows en la máquina virtual Windows 10 de forma que se pueda escribir en ella. Usa el comando smbclient para acceder. Crea un directorio llamado pruebas. Observa desde Windows 10 si la carpeta se ha creado con éxito. (apartado 2.1)



6. Observa los comandos que puedes usar en smb (usa -help) ¿Te son familiares? ¿Qué comando podemos usar para saber en qué directorio de nuestra máquina estamos? ¿Cómo puedo cambiar de directorio? (apartado 2.1)



COMPUTER NETWORKS

EDISON ALCOCER (he hecho lo que he podido)

7. Crea un directorio y compártelo tal como se indica en el apartado 2.2.

COMPUTER NETWORKS

EDISON ALCOCER (he hecho lo que he podido)



```
Activities Terminal may 18 20:54
edison@edison-VirtualBox: ~/Desktop

cd: usage: cd [-L|[-P [-e]] [-@]] [dir]
edison@edison-VirtualBox:/$ cd etc
edison@edison-VirtualBox:/etc$ sudo nano exports
edison@edison-VirtualBox:/etc$ sudo exportfs -a
edison@edison-VirtualBox:/etc$ sudo service nfs-kernel-server restart
edison@edison-VirtualBox:/etc$ pw
pw: command not found
edison@edison-VirtualBox:/etc$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default 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
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:e5:02:b2 brd ff:ff:ff:ff:ff:ff
    inet 10.0.204.219/24 brd 10.0.204.255 scope global dynamic noprefixroute enp0s3
        valid_lft 86397sec preferred_lft 86397sec
    inet6 fe80::f40e:32a6:56c3:8b75/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
edison@edison-VirtualBox:/etc$ cd ~/Desktop/
edison@edison-VirtualBox:~/Desktop$ ls -la
total 12
drwxr-xr-x  3 edison edison 4096 may 18 19:31 .
drwxr-xr-x 16 edison edison 4096 may 18 20:43 ..
drwxrwxrwx  2 edison edison 4096 may 18 19:30 CompLinux
edison@edison-VirtualBox:~/Desktop$
```

COMPUTER NETWORKS

EDISON ALCOCER (he hecho lo que he podido)

