Laboratorio 1

PRIMERA PARTE

Nota: Para prevenir errores por acceso denegado ejecuta antes el comando **su -** y luego ingresar la **contraseña de root**.

Archivos

1. Listar los archivos del directorio /tmp

```
\oplus
                                vboxuser@Debian12: ~
                                                                     Q
                                                                          \equiv
                                                                                ×
vboxuser@Debian12:~$ ls /tmp
systemd-private-1c658f0a35cc49cba32e58511601f94b-colord.service-1IJDy5
systemd-private-1c658f0a35cc49cba32e58511601f94b-fwupd.service-KgG8cy
systemd-private-1c658f0a35cc49cba32e58511601f94b-geoclue.service-eEwzrE
systemd-private-1c658f0a35cc49cba32e58511601f94b-low-memory-monitor.service-BKbt
ΚY
systemd-private-1c658f0a35cc49cba32e58511601f94b-ModemManager.service-bJj83T
systemd-private-1c658f0a35cc49cba32e58511601f94b-power-profiles-daemon.service-q
K1kDh
systemd-private-1c658f0a35cc49cba32e58511601f94b-switcheroo-control.service-ydi0
systemd-private-1c658f0a35cc49cba32e58511601f94b-systemd-hostnamed.service-B7rpZ
systemd-private-1c658f0a35cc49cba32e58511601f94b-systemd-localed.service-WoJfFL
systemd-private-1c658f0a35cc49cba32e58511601f94b-systemd-logind.service-FxzRco
systemd-private-1c658f0a35cc49cba32e58511601f94b-systemd-timesyncd.service-ysXVh
systemd-private-1c658f0a35cc49cba32e58511601f94b-upower.service-VWth4w
tracker-extract-3-files.1000
tracker-extract-3-files.113
vboxuser@Debian12:~$
```

2. Repetir el ejercicio anterior mostrando además: información detallada de cada archivo y ordenándolos desde los más viejos a los nuevos.

```
vboxuser@Debian12: ~
                                                                 Q | ≡
vboxuser@Debian12:~$ ls -lt --time=creation /tmp
total 48
drwx----- 2 vboxuser vboxuser 4096 Jan 3 13:44 tracker-extract-3-files.100
drwx----- 3 root
                                 4096 Jan 3 13:44 systemd-private-1c658f0a35c
                      root
c49cba32e58511601f94b-fwupd.service-KgG8cy
drwx----- 2 Debian-gdm Debian-gdm 4096 Jan 3 13:44 tracker-extract-3-files.113
drwx----- 3 root
                      root
                               4096 Jan 3 13:44 systemd-private-1c658f0a35c
c49cba32e58511601f94b-colord.service-1IJDy5
drwx----- 3 root
                     root
                                 4096 Jan 3 13:44 systemd-private-1c658f0a35c
c49cba32e58511601f94b-geoclue.service-eEwzrE
                                 4096 Jan 3 13:44 systemd-private-1c658f0a35c
drwx----- 3 root
                     root
c49cba32e58511601f94b-upower.service-VWth4w
                                4096 Jan 3 13:44 systemd-private-1c658f0a35c
drwx----- 3 root
                      root
c49cba32e58511601f94b-ModemManager.service-bJj83T
                                4096 Jan 3 13:43 systemd-private-1c658f0a35c
drwx----- 3 root
                     root
c49cba32e58511601f94b-systemd-logind.service-FxzRco
drwx----- 3 root
                     root
                                4096 Jan 3 13:43 systemd-private-1c658f0a35c
c49cba32e58511601f94b-switcheroo-control.service-ydi0zJ
drwx----- 3 root
                     root 4096 Jan 3 13:43 systemd-private-1c658f0a35c
c49cba32e58511601f94b-power-profiles-daemon.service-qKlkDh
drwx----- 3 root
                      root
                                 4096 Jan 3 13:43 systemd-private-1c658f0a35c
c49cba32e58511601f94b-low-memory-monitor.service-BKbtKY
drwx----- 3 root
                                 4096 Jan 3 13:43 systemd-private-1c658f0a35c
                      root
```

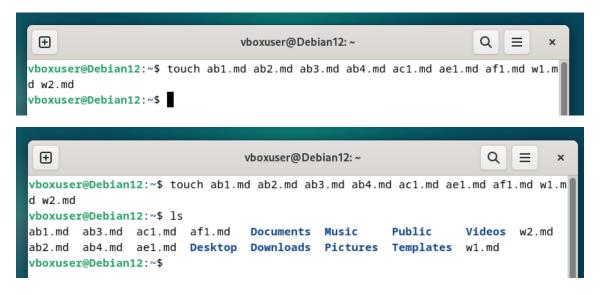
3. Repetir el ejercicio anterior mostrando además los archivos ocultos

```
\oplus
                              vboxuser@Debian12: ~
                                                                Q
                                                                     vboxuser@Debian12:~$ ls -alt --time=creation /tmp
total 88
drwx----- 2 vboxuser vboxuser 4096 Jan 3 13:44 tracker-extract-3-files.10
00
drwx----- 3 root
                       root
                                4096 Jan 3 13:44 systemd-private-1c658f0a35
cc49cba32e58511601f94b-fwupd.service-KgG8cy
-r--r--r-- 1 vboxuser vboxuser
                                   11 Jan 3 13:44 .X0-lock
-r--r--r-- 1 vboxuser
                       vboxuser
                                   11 Jan 3 13:44 .X1-lock
drwx----- 2 Debian-gdm Debian-gdm 4096 Jan 3 13:44 tracker-extract-3-files.11
drwx----- 3 root
                       root
                                  4096 Jan 3 13:44 systemd-private-1c658f0a35
cc49cba32e58511601f94b-colord.service-1IJDy5
                                 4096 Jan 3 13:44 systemd-private-1c658f0a35
drwx----- 3 root
                      root
cc49cba32e58511601f94b-geoclue.service-eEwzrE
drwx----- 3 root
                                 4096 Jan 3 13:44 systemd-private-1c658f0a35
                      root
cc49cba32e58511601f94b-upower.service-VWth4w
-r--r--r-- 1 Debian-gdm Debian-gdm 11 Jan 3 13:44 .X1024-lock
-r--r--r-- 1 Debian-gdm Debian-gdm
                                  11 Jan 3 13:44 .X1025-lock
drwx----- 3 root
                       root 4096 Jan 3 13:44 systemd-private-1c658f0a35
cc49cba32e58511601f94b-ModemManager.service-bJj83T
                                 4096 Jan 3 13:43 systemd-private-1c658f0a35
drwx----- 3 root
                      root
cc49cba32e58511601f94b-systemd-logind.service-FxzRco
drwx----- 3 root
                      root 4096 Jan 3 13:43 systemd-private-1c658f0a35
cc49cba32e58511601f94b-switcheroo-control.service-vdi0zJ
```

```
\oplus
                               vboxuser@Debian12: ~
                                                                 Q
                                                                      \equiv
drwx----- 3 root
                                  4096 Jan 3 13:44 systemd-private-1c658f0a35
                      root
cc49cba32e58511601f94b-geoclue.service-eEwzrE
                                  4096 Jan 3 13:44 systemd-private-1c658f0a35
drwx----- 3 root
                       root
cc49cba32e58511601f94b-upower.service-VWth4w
-r--r--r-- 1 Debian-gdm Debian-gdm   11 Jan  3 13:44 .X1024-lock
-r--r--r-- 1 Debian-gdm Debian-gdm 11 Jan 3 13:44 .X1025-lock
drwx----- 3 root
                                 4096 Jan 3 13:44 systemd-private-1c658f0a35
                       root
cc49cba32e58511601f94b-ModemManager.service-bJj83T
drwx----- 3 root
                                 4096 Jan 3 13:43 systemd-private-1c658f0a35
                      root
cc49cba32e58511601f94b-systemd-logind.service-FxzRco
drwx----- 3 root
                                 4096 Jan 3 13:43 systemd-private-1c658f0a35
                      root
cc49cba32e58511601f94b-switcheroo-control.service-ydi0zJ
drwx----- 3 root root
                                 4096 Jan 3 13:43 systemd-private-1c658f0a35
cc49cba32e58511601f94b-power-profiles-daemon.service-qKlkDh
drwx----- 3 root
                      root
                                  4096 Jan 3 13:43 systemd-private-1c658f0a35
cc49cba32e58511601f94b-low-memory-monitor.service-BKbtKY
                                  4096 Jan 3 13:43 systemd-private-1c658f0a35
drwx----- 3 root
                      root
cc49cba32e58511601f94b-systemd-timesyncd.service-ysXVhU
drwxrwxrwt 2 root
                      root
                                 4096 Jan 3 13:43 .font-unix
drwxrwxrwt 2 root
                                  4096 Jan 3 13:43 .ICE-unix
                       root
drwxrwxrwt 2 root
                       root
                                  4096 Jan 3 13:43
                                                    .XIM-uni
drwxrwxrwt 2 root
                       root
                                  4096 Jan 3 13:43
                                                     X11-unix
drwxrwxrwt 18 root
                                  4096 Dec 27 11:51
                       root
                                  4096 Dec 27 11:51 ...
drwxr-xr-x 19 root
                       root
```

Primeros Pasos

- 1. Crear los siguientes archivos:
- 2. ab1.md ab2.md ab3.md ab4.md ac1.md ae1.md af1.md w1.md w2.md



3. Crear la siguiente estructura de directorios en /home/educacionit

notas
— casa
estudio
├—algebra
├—fisica
│
└─ trabajo

+		Debian12: ~	Q:	≡ ×						
root@Debian12:/home/vboxuser# mkdir -p notas/{casa,trabajo,estudio/{algebra,fisica,programacion}}										
root@Debian12:/home/vboxuser# ls										
ab1.md	ab3.md	ac1.md	af1.md	Documents	Music	Pictures	Templates	w1.md		
ab2.md	ab4.md	ae1.md	Desktop	Downloads	notas	Public	Videos	w2.md		

4. Mover todos los archivos creados a la carpeta notas



5. Copiar todos los archivos cuyo nombre empieza con 'a' y tiene un '1' al directorio 'algebra'

root@Debian12:/home/vboxuser# cp /home/vboxuser/a*1.md /home/vboxuser/notas/estudio/algebra/



6. Copiar todos los archivos cuyo nombre comienza con 'w' al directorio 'trabajo'

+	vboxuser@Debian12: ~	Q =	×
<pre>root@Debian12:/home/vboxuser# cp root@Debian12:/home/vboxuser# </pre>	/home/vboxuser/w*.md /home/vboxuser/notas/trabajo/		

```
vboxuser@Debian12:/home/vboxuser# cp /home/vboxuser/w*.md /home/vboxuser/notas/trabajo/
root@Debian12:/home/vboxuser# ls
ab1.md ab3.md ac1.md af1.md Documents Music Pictures Templates w1.md
ab2.md ab4.md ae1.md Desktop Downloads notas Public Videos w2.md
root@Debian12:/home/vboxuser# cd notas
root@Debian12:/home/vboxuser/notas# ls
casa estudio trabajo
root@Debian12:/home/vboxuser/notas# cd trabajo
root@Debian12:/home/vboxuser/notas/trabajo# ls
w1.md w2.md
root@Debian12:/home/vboxuser/notas/trabajo#
```

7. Mover todos los archivos cuyo nombre tiene una 'b' o una 'c' a la carpeta 'casa'

root@Debian12:/home/vboxuser# mv /home/vboxuser/*[bc]*.md /home/vboxuser/notas/casa/ root@Debian12:/home/vboxuser#

```
root@Debian12:/home/vboxuser# mv /home/vboxuser/*[bc]*.md /home/vboxuser/notas/casa/
root@Debian12:/home/vboxuser# ls
aei.md afi.md Desktop Documents Downloads Music notas Pictures Public Templates Videos w1.md w2.md
root@Debian12:/home/vboxuser# cd notas
root@Debian12:/home/vboxuser/notas# ls
casa estudio trabajo
root@Debian12:/home/vboxuser/notas# cd casa
root@Debian12:/home/vboxuser/notas/casa# ls
abi.md ab2.md ab3.md ab4.md ac1.md
root@Debian12:/home/vboxuser/notas/casa# |
```

8. Borrar el resto de los archivos que terminan con .md en /home/educacionit

```
vboxuser@Debian12:/home/vboxuser/notas/casa# rm /home/vboxuser/*.md
root@Debian12:/home/vboxuser/notas/casa# cd ..
root@Debian12:/home/vboxuser/notas/casa# cd ..
root@Debian12:/home/vboxuser# ls
Desktop Documents Downloads Music notas Pictures Public Templates Videos
root@Debian12:/home/vboxuser#
```

9. Cambiar el nombre del archivo ab1.md a ag1.md

```
vboxuser@Debian12:/home/vboxuser# ls
Desktop Documents Downloads Music notas Pictures Public Templates Videos 
root@Debian12:/home/vboxuser# cd notas 
root@Debian12:/home/vboxuser/notas# ls 
casa estudio trabajo 
root@Debian12:/home/vboxuser/notas# cd casa 
root@Debian12:/home/vboxuser/notas/casa# ls 
abl.md ab2.md ab3.md ab4.md ac1.md 
root@Debian12:/home/vboxuser/notas/casa# ls 
ab2.md ab3.md ab4.md ac1.md ag1.md 
root@Debian12:/home/vboxuser/notas/casa# ls 
ab2.md ab3.md ab4.md ac1.md ag1.md 
root@Debian12:/home/vboxuser/notas/casa# ls 
ab2.md ab3.md ab4.md ac1.md ag1.md 
root@Debian12:/home/vboxuser/notas/casa# ls 
ab2.md ab4.md
```

10. Crear un archivo que ocupe 50M con bytes nulos en el directorio 'fisica'

```
root@Debian12:/home/vboxuser/notas/casa# dd if=/dev/zero of=/home/vboxuser/notas/estudio/fisica/file50M bs=1M count=50
50+0 records out
50+0 records out
52428800 bytes (52 MB, 50 MiB) copied, 0.333462 s, 157 MB/s
root@Debian12:/home/vboxuser/notas/casa# ls
ab2.md ab3.md ab4.md ac1.md ag1.md
root@Debian12:/home/vboxuser/notas/casa# cd ..
root@Debian12:/home/vboxuser/notas# ls
casa estudio trabajo
root@Debian12:/home/vboxuser/notas# cd estudio
root@Debian12:/home/vboxuser/notas/estudio# ls
algebra fisica programacion
root@Debian12:/home/vboxuser/notas/estudio# cd fisica
root@Debian12:/home/vboxuser/notas/estudioffisica# ls
file50M
root@Debian12:/home/vboxuser/notas/estudio/fisica# ls
file50M
root@Debian12:/home/vboxuser/notas/estudio/fisica#
```

11. Empaquetar y comprimir con xz el directorio 'notas' (es decir crear notas.tar.xz)



12. Borrar el directorio 'notas'



13. Extraer el contenido del paquete 'notas.tar.xz'



14. Repetir el ejercicio 11 pero utilizar gzip para comprimir



15. Repetir el ejercicio 11 pero utilizar bzip2 para comprimir



16. Cambiarle el nombre al archivo 'notas.tar.xz' a 'notas.jpg'. Verificar el tipo de archivo con el comando file.

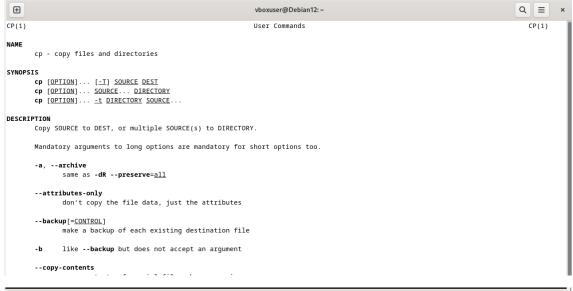
```
root@Debian12:/home/vboxuser# mv /home/vboxuser/notas.tar.xz /home/vboxuser/notas.jpg
root@Debian12:/home/vboxuser# ls
Desktop Documents Downloads Music notas notas.jpg notas.tar.bz2 notas.tar.gz Pictures Public Templates Videos
root@Debian12:/home/vboxuser#
```

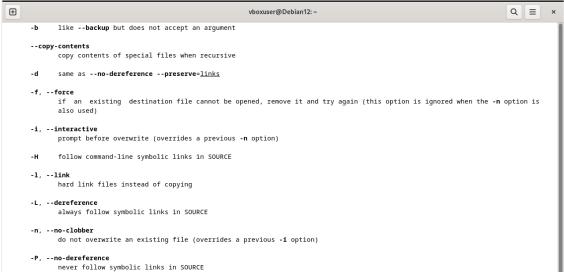
SEGUNDA PARTE

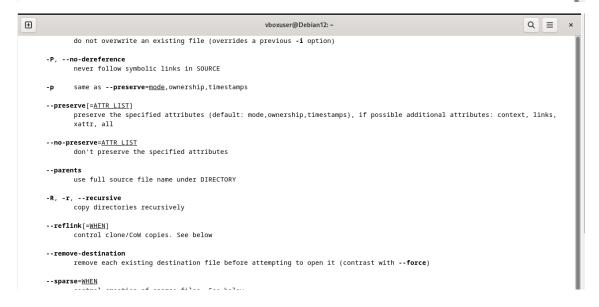
Manuales

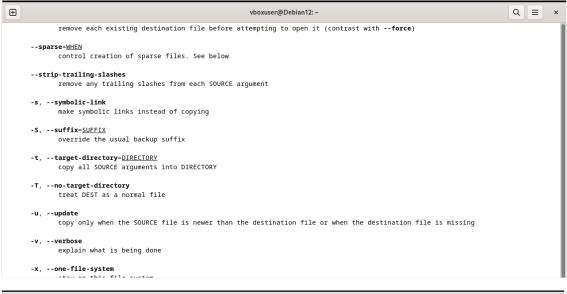
1. Leer la página del manual del comando cp. Buscar la opción de dicho comando que copia solamente cuando el archivo de destino es más viejo o no existe.

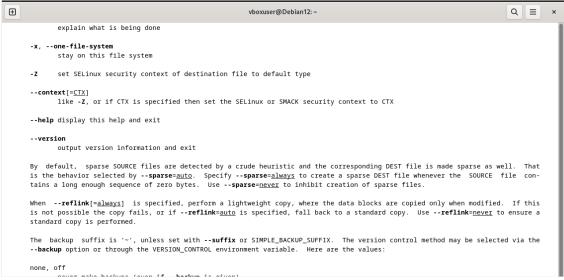












```
never make backups (even if --backup is given)
                make numbered backups
        existing, nil
                numbered if numbered backups exist, simple otherwise
        simple, never
                always make simple backups
        As a special case, cp makes a backup of SOURCE when the force and backup options are given and SOURCE and DEST are the same name
        for an existing, regular file.
AUTHOR
        Written by Torbjorn Granlund, David MacKenzie, and Jim Meyering.
        GNU coreutils online help: <https://www.gnu.org/software/coreutils/>
Report any translation bugs to <https://translationproject.org/team/>
        copyright © 2022 Free Software Foundation, Inc. License GPLv3+: GNU GPL version 3 or later <https://gnu.org/licenses/gpl.html>.
        This is free software: you are free to change and redistribute it. There is NO WARRANTY, to the extent permitted by law.
       Full documentation <https://www.gnu.org/software/coreutils/cp>
or available locally via: info '(coreutils) cp invocation'
                                                                                                                                                      CP(1)
Manual page cp(1) line 120/152 (END) (press h for help or q to quit)
```

La opción es cp -u origen destino

2. Buscar la definición del comando dd.

```
Q ≡ ×
±
                                                                          vboxuser@Debian12: ~
DD(1)
                                                                          User Commands
                                                                                                                                                             DD(1)
NAME
        dd - convert and copy a file
SYNOPSIS
        dd [OPERAND]...
        dd OPTION
DESCRIPTION
        Copy a file, converting and formatting according to the operands.
                read and write up to BYTES bytes at a time (default: 512); overrides ibs and obs
                convert BYTES bytes at a time
       conv=CONVS
               convert the file as per the comma separated symbol list
                copy only N input blocks
        ibs=BYTES
                read up to BYTES bytes at a time (default: 512)
                read as per the comma separated symbol list
        obs=BYTES
                write BYTES bytes at a time (default: 512)
        of=FILE
                write to FILE instead of stdout
        oflag=FLAGS
                write as per the comma separated symbol list
        seek=N (or oseek=N) skip N obs-sized output blocks
        skip=N (or iseek=N) skip N ibs-sized input blocks
        status=LEVEL
                The LEVEL of information to print to stderr; 'none' suppresses everything but error messages, 'noxfer' suppresses the final transfer statistics, 'progress' shows periodic transfer statistics
       N and BYTES may be followed by the following multiplicative suffixes: c=1, w=2, b=512, kB=1000, K=1024, MB=1000*1000, M=1024*1024, xM=M, GB=1000*1000*1000, G=1024*1024*1024, and so on for T, P, E, Z, Y. Binary prefixes can be used, too: KiB=K, MiB=M, and so on. If N ends in 'B', it counts bytes not blocks.
        Each CONV symbol may be:
        ascii from EBCDIC to ASCII
        ebcdic from ASCII to EBCDIC
ibm from ASCII to alternate EBCDIC
Manual page dd(1) line 29/148 43% (press h for help or q to quit)
       ascii from EBCDIC to ASCII
       ebcdic from ASCII to EBCDIC
              from ASCII to alternate EBCDIC
       block pad newline-terminated records with spaces to cbs-size
```

```
ascii from EBCDIC to ASCII
ebcdic from ASCII to EBCDIC

ibm from ASCII to alternate EBCDIC

block pad newline-terminated records with spaces to cbs-size

unblock
    replace trailing spaces in cbs-size records with newline

lcase change upper case to lower case

ucase change lower case to upper case

sparse try to seek rather than write all-NUL output blocks

swab swap every pair of input bytes

sync pad every input block with NULs to ibs-size; when used with block or unblock, pad with spaces rather than NULs

excl fail if the output file already exists

nocreat
    do not create the output file

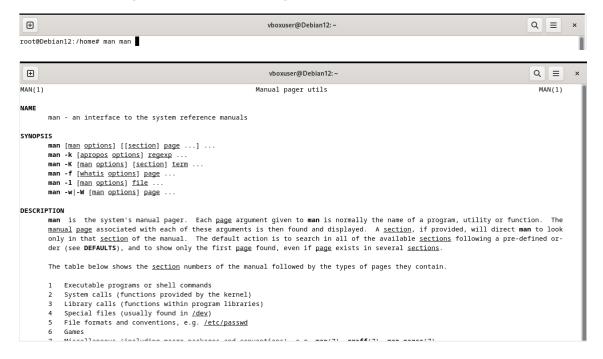
notrunc
    do not truncate the output file
```

```
noctty do not assign controlling terminal from file
               do not follow symlinks
       Sending a USR1 signal to a running 'dd' process makes it print I/O statistics to standard error and then resume copying.
       --help display this help and exit
       --version
               output version information and exit
AUTHOR
       Written by Paul Rubin, David MacKenzie, and Stuart Kemp.
REPORTING BUGS
       GNU coreutils online help: <a href="https://www.gnu.org/software/coreutils/">https://www.gnu.org/software/coreutils/>
       Report any translation bugs to <a href="https://translationproject.org/team/">https://translationproject.org/team/</a>
       ....
Copyright © 2022 Free Software Foundation, Inc. License GPLv3+: GNU GPL version 3 or later <https://gnu.org/licenses/gpl.html>.
       This is free software: you are free to change and redistribute it. There is NO WARRANTY, to the extent permitted by a
SEE ALSO
       Full documentation <https://www.gnu.org/software/coreutils/dd>
       or available locally via: info '(coreutils) dd invocation'
                                                                   September 2022
                                                                                                                                                 DD(1)
Manual page dd(1) line 116/148 (END) (press h for help or q to quit)
```

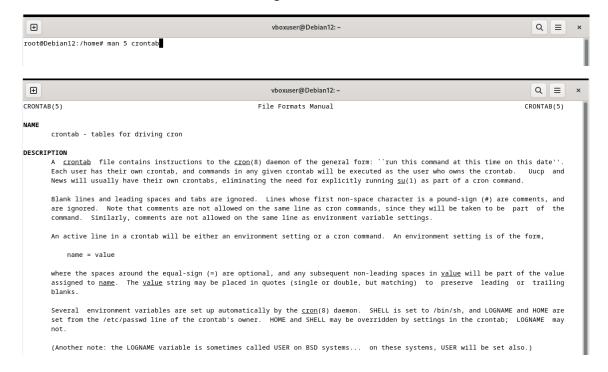
3. Buscar las páginas del manual que contengan la cadena de texto 'ipv4'.

```
root@Debian12:/home# man -k ipv4
avahi-autoipd (8) - IPv4LL network address configuration daemon
icmp (7) - Linux IPv4 ICMP kernel module.
inet_ntop (3) - convert IPv4 and IPv6 addresses from binary to text form
inet_pton (3) - convert IPv4 and IPv6 addresses from text to binary form
ip (7) - Linux IPv4 protocol implementation
raw (7) - Linux IPv4 raw sockets
udp (7) - User Datagram Protocol for IPv4
root@Debian12:/home#
```

4. Consultar la página del manual que tenga un listado de las secciones del mismo.



5. Buscar el manual del archivo de configuración crontab



TERCERA PARTE

FHS

- 1. Listar:
- a. Dos directorios que se puedan compartir en una red



/home – Contiene los directorios personales de los usuarios, útiles para compartir documentos.

/srv – Almacena datos para servicios como FTP, HTTP o NFS, adecuados para compartir en red.

b. Dos directorios que no se puedan compartir en una red

```
root@Debian12:/home# ls -ld /etc /root
drwxr-xr-x 120 root root 12288 Jan 3 18:58 /etc
drwx----- 4 root root 4096 Jan 3 12:05 /root
root@Debian12:/home#
```

/etc – Contiene archivos de configuración del sistema.

/root – Directorio personal del superusuario (root), confidencial y crítico.

c. Dos directorios con contenido estático

```
root@Debian12:/home# ls -ld /usr/bin /usr/share
drwxr-xr-x 2 root root 36864 Dec 27 12:10 /usr/bin
drwxr-xr-x 254 root root 12288 Dec 27 12:10 /usr/share
root@Debian12:/home#
```

/usr/bin - Contiene programas ejecutables del sistema.

/usr/share – Almacena datos compartidos como íconos, documentos y páginas de manual.

d. Dos directorios con contenido variable

```
vboxuser@Debian12:~

root@Debian12:/home# ls -ld /var/log /var/spool
drwxr-xr-x 9 root root 4096 Jan 4 11:33 /var/log
drwxr-xr-x 6 root root 4096 Dec 27 12:04 /var/spool
root@Debian12:/home#
```

/var/log – Contiene registros de actividad (logs) que cambian constantemente.

/var/spool – Almacena tareas en cola, como trabajos de impresión o correos electrónicos pendientes.

e. Listar todos los directorios de más alto nivel que son imprescindibles para que arranque el sistema

```
root@Debian12:/home# ls -ld /bin /sbin /etc /dev /lib /boot lrwxrwxrwx 1 root root 7 Dec 27 11:51 /bin -> usr/bin drwxr-xr-x 3 root root 4096 Dec 27 12:13 /boot drwxr-xr-x 18 root root 3340 Jan 3 20:40 /dev drwxr-xr-x 120 root root 12288 Jan 3 18:58 /etc lrwxrwxrwx 1 root root 7 Dec 27 11:51 /lib -> usr/lib lrwxrwxrwx 1 root root 8 Dec 27 11:51 /sbin -> usr/sbin root@Debian12:/home#
```

/bin – Programas ejecutables básicos necesarios para el arranque.

/sbin - Programas administrativos esenciales.

/etc – Archivos de configuración críticos para el sistema.

/dev – Archivos de dispositivos requeridos para interactuar con el hardware.

/lib – Bibliotecas compartidas necesarias para los programas del sistema.

/boot - Contiene el kernel y archivos necesarios para iniciar el sistema.

- 2. Listar del directorio /usr
- a. Directorio de página del manual



b. Directorio de programas que solamente puede ejecutar root

```
root@Debian12:/home# ls -ld /usr/sbin
drwxr-xr-x 2 root root 12288 Dec 27 12:13 /usr/sbin
root@Debian12:/home#
```

c. Directorio de programas que todos los usuarios pueden ejecutar

```
root@Debian12:/home# ls -ld /usr/bin
drwxr-xr-x 2 root root 36864 Dec 27 12:10 /usr/bin
root@Debian12:/home#
```

d. Directorio de librerías

```
root@Debian12:/home# ls -ld /usr/lib
drwxr-xr-x 84 root root 4096 Dec 27 12:10 /usr/lib
root@Debian12:/home#
```

- 3. Listar del directorio /var
- a. Directorio de logs



b. Directorio de que contiene tareas a procesar

```
root@Debian12:/home# ls -ld /var/spool
drwxr-xr-x 6 root root 4096 Dec 27 12:04 /var/spool
root@Debian12:/home#
```

c. Directorio de casillas de correo

```
root@Debian12:/home# ls -ld /var/mail
drwxrwsr-x 2 root mail 4096 Dec 27 11:51 /var/mail
root@Debian12:/home#
```

4. Listar el directorio que contiene los archivos de configuración del sistema local

```
root@Debian12:/home# ls -ld /etc
drwxr-xr-x 120 root root 12288 Jan 3 18:58 /etc
root@Debian12:/home#
```

Localización de Archivos

Buscar Archivos

- 1. Utilizar el comando find para:
- a. Buscar los archivos que comienzan con 'x' en todo el sistema

```
vboxuser@Debian12: ~
root@Debian12:/home# sudo find / -type f -name "x*
/proc/sys/net/core/xfrm_acq_expires
/proc/sys/net/core/xfrm aevent etime
/proc/sys/net/core/xfrm_aevent_rseqth
/proc/sys/net/core/xfrm larval drop
/proc/sys/net/ipv4/xfrm4_gc_thresh
/proc/sys/net/ipv6/xfrm6_qc_thresh
/proc/1/task/1/net/xfrm_stat
/proc/1/net/xfrm stat
/proc/2/task/2/net/xfrm_stat
/proc/2/net/xfrm stat
.
/proc/3/task/3/net/xfrm_stat
/proc/3/net/xfrm stat
/proc/4/task/4/net/xfrm_stat
/proc/4/net/xfrm stat
/proc/5/task/5/net/xfrm_stat
/proc/5/net/xfrm_stat
/proc/6/task/6/net/xfrm_stat
/proc/6/net/xfrm_stat
.
/proc/8/task/8/net/xfrm_stat
/proc/8/net/xfrm_stat
/proc/10/task/10/net/xfrm_stat
/proc/10/net/xfrm stat
/proc/11/task/11/net/xfrm_stat
/proc/11/net/xfrm_stat
/proc/12/task/12/net/xfrm_stat
/proc/12/net/xfrm_stat
```

b. Buscar los archivos dentro del directorio /etc cuya fecha de modificación sea menor a 1 mes

```
Q =
 \oplus
                                                          vboxuser@Debian12: ~
root@Debian12:/home# find /etc -type f -mtime -30 -exec ls -lh {} \;
-rw-r--r-- 1 root root 806 Dec 27 11:51 /etc/fstab
-rw-r--r-- 1 root root 6.6K Dec 27 12:07 /etc/cups/cupsd.conf
-rw-r---- 1 root lp 381 Jan 4 11:33 /etc/cups/subscriptions.conf
-rw-r---- 1 root lp 91 Jan 4 11:33 /etc/cups/subscriptions.conf.0
-rw-r--r-- 1 root root 240 Dec 27 12:07 /etc/cups/raw.convs
-rw-r--r-- 1 root root 211 Dec 27 12:07 /etc/cups/raw.types
-rw-r--r-- 1 root root 40K Dec 27 12:07 /etc/mailcap
-rw-r--r-- 1 root root 9 Dec 27 11:52 /etc/hostname
-rw----- 1 root root 1.6K Dec 27 12:06 /etc/ppp/pap-secrets
-rw-r---- 1 root dip 1.1K Dec 27 12:06 /etc/ppp/peers/provider
-rw----- 1 root root 80 Dec 27 12:06 /etc/ppp/chap-secrets
-rw-r--r-- 1 root root 569 Dec 27 12:06 /etc/nsswitch.conf
-rwxr-xr-x 1 root root 469 Dec 27 11:54 /etc/console-setup/cached_setup_font.sh
-rw-r--r-- 1 root root 5.0K Dec 27 11:54 /etc/console-setup/cached_UTF-8_del.kmap.gz
-rwxr-xr-x 1 root root 73 Dec 27 11:54 /etc/console-setup/cached_setup_terminal.sh
-rw-r--r-- 1 root root 2.5K Dec 27 11:54 /etc/console-setup/cached_Lat15-Fixed16.psf.qz
-rwxr-xr-x 1 root root 358 Dec 27 11:54 /etc/console-setup/cached_setup_keyboard.sh
-rw------ 1 root root 0 Dec 27 11:52 /etc/.pwd.lock
-rw-r--r-- 1 root root 0 Dec 27 11:52 /etc/subuid-
-rw-r--r-- 1 root root 49 Dec 27 11:52 /etc/initramfs-tools/conf.d/resume
-rw-r--r-- 1 root root 246 Dec 27 11:52 /etc/initramfs-tools/modules
-rw-r--r-- 1 root root 94 Dec 27 12:07 /etc/python3/debian_config
-rw-r--r-- 1 root root 902 Dec 27 12:13 /etc/group
-rw-r--r-- 1 root root 0 Dec 27 11:52 /etc/subgid-
-rw-r--r-- 1 root root 1.7K Dec 27 12:06 /etc/pam.d/common-password
-rw-r--r-- 1 root root 1.2K Dec 27 12:06 /etc/pam.d/common-session-noninteractive
```

c. Buscar los archivos dentro /var que ocupe más de 10MB

```
vboxuser@Debian12:~

vboxuser@Debian12:~

Q = x

root@Debian12:/home# sudo find /var -type f -size +10M -exec ls -lh {} \;
-rw------ 1 root root 14M Dec 27 12:13 /var/log/installer/cdebconf/templates.dat
-rw-r---- 1 root root 32M Nov 9 06:39 /var/lib/apt/lists/deb.debian.org_debian_dists_bookworm_main_i18n_Translation-en
-rw-r----- 1 root root 49M Nov 9 06:39 /var/lib/apt/lists/deb.debian.org_debian_dists_bookworm_main_source_Sources
-rw-r----- 1 root root 48M Nov 9 06:39 /var/lib/apt/lists/deb.debian.org_debian_dists_bookworm_main_binary-amd64_Packages
-rw-r------ 1 root root 38M Jan 3 13:44 /var/cache/apt/srcpkgcache.bin
-rw-r---- 1 root root 38M Jan 3 13:44 /var/cache/apt/pkgcache.bin
root@Debian12:/home#
```

d. Imprimir usando tres herramientas distintas la ruta del comando tar.



2. Crear un archivo llamado test123, ejecutar el comando que permita encontrarlo inmediatamente con la herramienta locate.

```
root@Debian12:/home/vboxuser# touch test123
root@Debian12:/home/vboxuser# sudo updatedb
sudo: updatedb: command not found
root@Debian12:/home/vboxuser# locate test123 | xargs ls -lh
bash: locate: command not found
total 100K
drwxr-xr-x 2 vboxuser vboxuser 4.0K Dec 27 12:17 Desktop
drwxr-xr-x 2 vboxuser vboxuser 4.0K Dec 27 12:17 Documents drwxr-xr-x 2 vboxuser vboxuser 4.0K Dec 27 12:17 Downloads
drwxr-xr-x 2 vboxuser vboxuser 4.0K Dec 27 12:17 Music
                            root 4.0K Dec 27 12:17 Music
root 4.0K Jan 3 20:44 notas
root 8.0K Jan 4 13:17 notas.jpg
root 580 Jan 4 13:21 notas.tar.bz2
root 51K Jan 4 13:20 notas.tar.gz
drwxr-xr-x 5 root
-rw-r--r-- 1 root
-rw-r--r-- 1 root
-rw-r--r-- 1 root
drwxr-xr-x 2 vboxuser vboxuser 4.0K Dec 27 12:17 Pictures
drwxr-xr-x 2 vboxuser vboxuser 4.0K Dec 27 12:17 Public
drwxr-xr-x 2 vboxuser vboxuser 4.0K Dec 27 12:17 Templates
TW-T--T-- 1 root root 0 Jan 4 13:48 test12:
drwxr-xr-x 2 vboxuser vboxuser 4.0K Dec 27 12:17 Videos
                                               0 Jan 4 13:48 test123
root@Debian12:/home/vboxuser#
```