EJERCICIOS DE TAR

Resumen de opciones básicas de tar

- -c → crear un archivo.
- -x → extraer un archivo.
- -t → listar el contenido.
- -v → modo detallado (verbose).
- -f → especifica el nombre del archivo.
- -z → comprime con gzip.
- -j → comprime con bzip2.
- -J → comprime con xz (muy usado hoy en día).
- --exclude → excluir archivos o directorios.
- -C → cambiar al directorio indicado antes de operar.

📌 Ejercicios propuestos (basados en lo que muestras)

- 1. Crear un backup simple:
- 2. tar -cvf backup01.tar /home

```
~/Documents/box ) tar -cvf backup01.tar /home/kali/Documents
tar: Removing leading `/' from member names
/home/kali/Documents/.trash/
/home/kali/Documents/.trash/.p10k.zsh
/home/kali/Documents/.trash/hosts.html
/home/kali/Documents/.trash/.bashrc
/home/kali/Documents/.trash/.tmux.conf
/home/kali/Documents/.trash/.zshrc
/home/kali/Documents/.trash/.bash_history
/home/kali/Documents/.trash/Inception.7z
/home/kali/Documents/.trash/.vimrc
/home/kali/Documents/.trash/* Essentials Configs.md
/home/kali/Documents/.trash/bookmarks.html
/home/kali/Documents/.trash/.zsh_history
/home/kali/Documents/.trash/.zsh_history
/home/kali/Documents/.trash/.zsh_history
```

3. Crear un backup comprimido con gzip:

tar -cvzf backup02.tar.gz /home

```
~/Documents/box ) tar -cvzf backup02.tar.gz /home/kali/Documents/box/ejercicios_tar tar: Removing leading `/' from member names /home/kali/Documents/box/ejercicios_tar/ /home/kali/Documents/box/ejercicios tar/Esto
```

```
~/Documents/box > ls
archivo.txx dmi
backup01.tar dns
backup02.tar.gz eje
```

4. Crear un backup comprimido con bzip2:

tar -cvjf backup03.tar.bz2 /home

5. Comprimir varios directorios:

tar -cvf backup04.tar /etc /var /home

```
~/Documents/box > tar -cvf backup04.tar /etc/logrotate.d /home/kali/Documents/box/ejercicios_tar
tar: Removing leading `/' from member names
/etc/logrotate.d/
/etc/logrotate.d/bootlog
tar: Removing leading `/' from hard link targets
/etc/logrotate.d/tor
/etc/logrotate.d/nginx
/etc/logrotate.d/alternatives
/etc/logrotate.d/stunnel4
/etc/logrotate.d/mosquitto
/etc/logrotate.d/apache2
/etc/logrotate.d/btmp
/etc/logrotate.d/wtmp
```

```
/Documents/box ) ll
total 375864
            5 kali kali
                              4096 Sep 24 09:09 ./
drwxrwxr-x
            5 kali kali
                              4096 Sep 22 11:02 .../
            1 kali kali
                                 0 Sep 24 09:01 archivo.txx
            1 kali kali 384768000 Sep 24 08:55
            1 kali kali
                               173 Sep 24 09:01
            1 kali kali
                               192 Sep 24 09:03
   -rw-r--
            1 kali kali
                             30720 Sep 24 09:09
 rw-rw-r--
```

6. Excluir un directorio concreto:

tar -cvf bk05.tar /home -exclude=/home/usuario/Descargas

```
~/Documents/box ) tar -cvf backup05.tar --exclude=/home/kali/Documents/box/excluirDir /home/kali/Documents/box/ejerc
icios_tar
tar: Removing leading `/' from member names
/home/kali/Documents/box/ejercicios_tar/
/home/kali/Documents/box/ejercicios_tar/Esto
/home/kali/Documents/box/ejercicios_tar/excluirDir/
```

```
-/Documents/box > ll
total 945120
drwxrwxr-x 5 kali kali
                             4096 Sep 24 09:12 ./
drwxr-xr-x
           5 kali kali
                             4096 Sep 22 11:02 ../
            1 kali kali
                                 0 Sep 24 09:01 archivo.txx
 rw-rw-r--
            1 kali kali 384768000 Sep 24
                                          08:55
            1 kali kali
                              173 Sep 24 09:01
-rw-rw-r--
            1 kali kali
                               192 Sep 24 09:03
-rw-rw-r--
            1 kali kali
                            10240 Sep 24 09:12
            1 kali kali
                            10240 Sep 24 09:13
            1 kali kali 582922240 Sep 24 09:10
            1 kali kali
                              676 Sep 23 08:28 dmitry.txt
```

7. Excluir por patrón:

tar -cvf bk06.tar /home -exclude=/home/*.mp4

```
~/Documents/box ) tar -cvf bk06.tar --exclude=/home/kali/Documents/box/*.txt /home/kali/Documents/box/ejercicios_tar

tar: Removing leading `/' from member names
/home/kali/Documents/box/ejercicios_tar/
/home/kali/Documents/box/ejercicios_tar/Esto
/home/kali/Documents/box/ejercicios_tar/excluirDir/
```

8. Listar contenido sin descomprimir:

tar -tvf bk06.tar

Con gzip:

tar -ztvf backup02.tar.gz

Con bzip2:

tar -jtvf backup03.tar.bz2

```
drwxrwxr-x kali/kali 0 2025-09-24 09:01 home/kali/Documents/box/ejercicios_tar/Esto
```

9. Extraer un archivo:

tar -xvf backup01.tar

Con gzip:

tar -xvzf backup02.tar.gz

```
~/Documents/box > tar -xvzf backup02.tar.gz
home/kali/Documents/box/ejercicios_tar/
home/kali/Documents/box/ejercicios_tar/Esto
```

Con bzip2:

tar -xvjf backup03.tar.bz2

```
home/kali/Documents/box/ejercicios_tar/
home/kali/Documents/box/ejercicios_tar/
home/kali/Documents/box/ejercicios_tar/Esto
```

- Complementos recomendados para tus alumnos
- Compresión moderna con xz (mejor ratio que gzip y bzip2):

tar -cv|f backup04.tar.xz /home

tar -xvJf backup04.tar.xz

```
~/Documents/box > tar -cvjf backup04.tar.xz /home/kali/Documents/box/ejercicios_tar
tar: Removing leading `/' from member names
/home/kali/Documents/box/ejercicios_tar/
/home/kali/Documents/box/ejercicios_tar/Esto 0 the keyboard mouse speed higher as the base
/home/kali/Documents/box/ejercicios_tar/excluirDir/iiv.keyboard mousekeys-max-speed 50
~/Documents/box > tar -xvjf backup04.tar.xz
home/kali/Documents/box/ejercicios_tar/
home/kali/Documents/box/ejercicios_tar/Esto
home/kali/Documents/box/ejercicios_tar/Esto
```

Extraer en un directorio específico:

tar -xvf backup01.tar -C /tmp/restauracion

```
~/Documents/box ) tar -xvf backup04.tar.xz -C /tmp/
home/kali/Documents/box/ejercicios_tar/
home/kali/Documents/box/ejercicios_tar/Esto
home/kali/Documents/box/ejercicios_tar/excluirDir/
```

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Crear backup incremental (muy útil en sistemas):

1. Crear snapshot inicial:

tar -cvf full-backup.tar --listed-incremental=snapshot.file /home

```
/home/kali/Documents/box/webs/
tar: /home/kali/Documents/box/full-backup.tar: archive cannot contain itself; not dumped
/home/kali/Documents/box/snapshot.file

~/Documents/box > tar -cvf full-backup.tar --listed-incremental=snapshot.file /home/kali/Documents/box
```

2. Crear backup incremental:

tar -cvf inc-backup.tar --listed-incremental=snapshot.file /home

```
/nome/kali/Documents/box/webs/
tar: /home/kali/Documents/box/inc-backup.tar: archive cannot contain itself; not dumped
/home/kali/Documents/box/snapshot.file

~/Documents/box > tar -cvf inc-backup.tar --listed-incremental=snapshot.file /home/kali/Documents/box/
```

Comprobar integridad:

tar -tvf backup02.tar.gz > /dev/null

```
~/Documents/box > tar -tvf backup02.tar.gz > /dev/null
~/Documents/box > tar -tvf inc-backup.tar > /dev/null
```

Éjercicio duplicity pag 99

Ese ejercicio hay que hacer estos cambios

1º hay que utilizar sudo

2° {1..40}

3° ///var/local/datos/copia

```
~/Documents/box > sudo mkdir /var/local/datos
~/Documents/box > sudo touch /var/local/datos/file{1..40}.conf
```

```
~/Documents/box > sudo mkdir /var/local/copia /var/local/restauracion
~/Documents/box > sudo chmod 777 /var/local/copia /var/local/restauracion
```

```
~/Documents/box > duplicity full /var/local/datos file:///var/local/copia
Local and Remote metadata are synchronized, no sync needed.
Last full backup date: none
GnuPG passphrase for decryption:
Retype passphrase for decryption to confirm:
             -[ Backup Statistics ]-
StartTime 1758700524.69 (Wed Sep 24 09:55:24 2025)
EndTime 1758700524.72 (Wed Sep 24 09:55:24 2025)
ElapsedTime 0.02 (0.02 seconds)
SourceFiles 41
SourceFileSize 4096 (4.00 KB)
NewFiles 41
NewFileSize 4096 (4.00 KB)
DeletedFiles 0
ChangedFiles 0
ChangedFileSize 0 (0 bytes)
ChangedDeltaSize 0 (0 bytes)
DeltaEntries 41
RawDeltaSize 0 (0 bytes)
TotalDestinationSizeChange 570 (570 bytes)
Errors 0
```

```
~/Documents/box > duplicity list-current-files file:///var/local/copia
Local and Remote metadata are synchronized, no sync needed.
Last full backup date: Wed Sep 24 09:55:14 2025
Wed Sep 24 09:51:53 2025 .
Wed Sep 24 09:51:53 2025 file1.conf
Wed Sep 24 09:51:53 2025 file10.conf
Wed Sep 24 09:51:53 2025 file11.conf
Wed Sep 24 09:51:53 2025 file12.conf
Wed Sep 24 09:51:53 2025 file13.conf
Wed Sep 24 09:51:53 2025 file14.conf
Wed Sep 24 09:51:53 2025 file15.conf
Wed Sep 24 09:51:53 2025 file16.conf
```

```
~/Documents/box > duplicity collection-status file:///var/local/copia
Last full backup date: Wed Sep 24 09:57:59 2025
Collection Status
Connecting with backend: BackendWrapper
Archive dir: /home/kali/.cache/duplicity/4a5c328ed9a9804c405c557c79de76ce
Found 1 secondary backup chain(s).
Secondary chain 1 of 1:
Chain start time: Wed Sep 24 09:55:14 2025
Chain end time: Wed Sep 24 09:55:14 2025
Number of contained backup sets: 1
Total number of contained volumes: 1
 Type of backup set:
                                                Time:
                                                            Num volumes:
                Full
                             Wed Sep 24 09:55:14 2025
Found primary backup chain with matching signature chain:
Chain start time: Wed Sep 24 09:57:59 2025
Chain end time: Wed Sep 24 09:57:59 2025
Number of contained backup sets: 1
Total number of contained volumes: 1
 Type of backup set:
                                                Time:
                                                           Num volumes:
                             Wed Sep 24 09:57:59 2025
                                                                       1
No orphaned or incomplete backup sets found.
```

```
~/Documents/box > sudo duplicity restore file:///var/local/copia /var/local/restauracion
Synchronizing remote metadata to local cache...
GnuPG passphrase for decryption:
Copying duplicity-full-signatures.20250924T075759Z.sigtar.gpg to local cache.
Copying duplicity-full.20250924T075759Z.manifest.gpg to local cache.
Last full backup date: Wed Sep 2/ 09:57:59 2025
```

```
/Documents/box ) ls /var/local/restauracion
file10.conf ofile15.conf ofile1,conf ofile24.conf ofile29.conf ofile33.conf
                                                                             file38.conf
                                                                                          file5.conf
file11.conf
            file16.conf
                         file20.conf
                                      file25.conf
                                                   file2.conf
                                                                file34.conf
                                                                             file39.conf
                                                                                          file6.conf
file12.conf
            file17.conf
                         file21.conf
                                      file26.conf
                                                   file30.conf
                                                                file35.conf
                                                                             file3.conf
                                                                                          file7.conf
                                     file27.conf
file13.conf file18.conf file22.conf
                                                   file31.conf
                                                                file36.conf
                                                                             file40.conf
                                                                                          file8.conf
                                                                                          file9.conf
file14.conf file19.conf file23.conf file28.conf
                                                   file32.conf
                                                                file37.conf
                                                                             file4.conf
```

```
~/Documents/box > duplicity /var/local/copia ftp://antonio@paraninfo.es/copia
No valid action found. Will imply 'backup' because a path source was given and target is a url location.
/bin/sh: 1: lftp: not found
LFTP not found: Please install LFTP.
```

~/Documents/box > duplicity -t 3D ssh://antonio@paraninfo.es/copia /var/local/restauracion
No valid action found. Will imply 'restore' because url source was given and target is a local path.
UnsupportedBackendScheme: scheme not supported in url: ssh://antonio@paraninfo.es/copia

~/Documents/box) duplicity --no-encryption remove-all-but-n-full 1 --force rsync://antonio@paraninfo.es/copia

Listado de comandos:

```
sudo mkdir /var/local/datos
sudo touch /var/local/datos/file{1..40}.conf
mkdir /var/local/copia /var/local/restauracion
sudo mkdir /var/local/copia /var/local/restauracion
sudo chmod 777 /var/local/copia /var/local/restauracion
duplicity full /var/local/datos file:///var/local/copia
duplicity list-current-file file:///var/local/copia
duplicity list-current-files file:///var/local/copia
duplicity collection-status file:///var/local/copia
duplicity restore file:///var/local/copia /var/local/restauracion
sudo duplicity restore file:///var/local/copia /var/local/restauracion
ls /var/local/restauracion
duplicity --time 24/09/2025 --file-to-restore *.conf restore file:///var/local/copia /var/local/restauracion
duplicity --time 09/24/2025 --file-to-restore *.conf restore file:///var/local/copia /var/local/restauracion
duplicity --time 23/09/2025 --file-to-restore *.conf restore file:///var/local/copia /var/local/restauracion
duplicity --time "2025-09-24T09:09:01-10:00" --file-to-restore *.conf restore file:///var/local/copia
/var/local/restauracion
duplicity --time "2025-09-24" --file-to-restore *.conf restore file:///var/local/copia /var/local/restauracion
duplicity --time "3D64s" --file-to-restore *.conf restore file:///var/local/copia /var/local/restauracion
duplicity --time 3D64s --file-to-restore *.conf restore file:///var/local/copia /var/local/restauracion
duplicity --time 3D --file-to-restore *.conf restore file:///var/local/copia /var/local/restauracion
duplicity --time "2002-03-26T09:08:00" --file-to-restore *.conf restore file:///var/local/copia
/var/local/restauracion
duplicity --time "2002-03-26T09:08:00" --path-to-restore *.conf restore file:///var/local/copia
/var/local/restauracion
duplicity /var/local/origen ftp://antonio@paraninfo.es/copia
duplicity /var/local/copia ftp://antonio@paraninfo.es/copia
duplicity -t 3D ssh://antonio@paraninfo.es/copia /var/local/restauracion
duplicity --no-encryption remove-all-but-n-full 1 --force rsync://antonio@paraninfo.es/copia
```