



Alumne (nom i cognoms):

Activitat 10. DUPLICITY i TAR

Documenteu amb captures de pantalla els fitxers de configuració modificats, les comandes executades i les comprovacions realitzades.

Amb dues màquines virtuals de **Linux**:

Realitzeu **a la màquina destí**:

1. Creeu la carpeta `/home/usuari_local/backup_A10`

```
dapi@m7ubuserver:~$ sudo mkdir backup_A10
[sudo] contraseña para dapi:
dapi@m7ubuserver:~$ sudo chown dapi:dapi backup_A10
dapi@m7ubuserver:~$
```

Realitzeu **a la màquina origen**:

1. Creeu la carpeta `/home/usuari_local/docs_A10` a la màquina origen.

```
dapi@m7ubucient:~$ sudo mkdir docs_A10
dapi@m7ubucient:~$ sudo chown dapi:dapi docs_A10
dapi@m7ubucient:~$
```

2. Creeu 5 fitxers dins de la carpeta creada a la màquina origen.
 - Editeu algun fitxer i escriviu el vostre nom i primer cognom.

```
dapi@m7ubucient:~/docs_A10$ touch prueba1 prueba2 prueba3 prueba4 prueba5
dapi@m7ubucient:~/docs_A10$ ls
prueba1 prueba2 prueba3 prueba4 prueba5
dapi@m7ubucient:~/docs_A10$
```

```
GNU nano 4.8                                prueba1
david piñeiro muñoz
```

```
GNU nano 4.8                                prueba2
muñoz piñeiro david
```

```
GNU nano 4.8                                prueba3
spudfudfkinf
```



```
dapi@m7ubuclient:~$ ssh dapi@192.168.122.68
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.11.0-27-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

0 actualizaciones se pueden instalar inmediatamente.
0 de estas actualizaciones son una actualización de seguridad.

Your Hardware Enablement Stack (HWE) is supported until April 2025.
Last login: Mon Jan 31 16:13:12 2022 from 192.168.122.129
dapi@m7ubuserver:~$
```

2. Realitzeu una còpia **completa** de la carpeta des de la màquina origen fins la màquina destí.

```
dapi@m7ubuclient:~$ duplicity full docs_A10/ ftp://dapi@192.168.122.94//home/dapi/backup_A10
LFTP version is 4.8.4
Password for 'dapi@192.168.122.94':
Local and Remote metadata are synchronized, no sync needed.
Last full backup left a partial set, restarting.
Last full backup date: Mon Jan 31 16:43:39 2022
GnuPG passphrase for decryption:
Retype passphrase for decryption to confirm:
RESTART: The first volume failed to upload before termination.
Restart is impossible...starting backup from beginning.
LFTP version is 4.8.4
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 1643643875.25 (Mon Jan 31 16:44:35 2022)
EndTime 1643643875.25 (Mon Jan 31 16:44:35 2022)
ElapsedTime 0.01 (0.01 seconds)
SourceFiles 6
SourceFileSize 4154 (4.06 KB)
NewFiles 6
NewFileSize 4154 (4.06 KB)
DeletedFiles 0
ChangedFiles 0
ChangedFileSize 0 (0 bytes)
ChangedDeltaSize 0 (0 bytes)
DeltaEntries 6
RawDeltaSize 58 (58 bytes)
TotalDestinationSizeChange 345 (345 bytes)
Errors 0
-----
dapi@m7ubuclient:~$
```



3. Afegiu, modifiqueu (escriuiu el vostre nom i primer cognom al revés) i elimineu algun fitxer.

```
dapi@m7ubuclient:~/docs_A10$ sudo nano prueba1
dapi@m7ubuclient:~/docs_A10$ sudo nano prueba3
dapi@m7ubuclient:~/docs_A10$ sudo rm -r prueba4
dapi@m7ubuclient:~/docs_A10$
```

4. Realitzeu una còpia **incremental** de la carpeta des de la màquina origen fins la màquina destí.

```
dapi@m7ubuclient:~$ duplicity incremental docs_A10/ ftp://dapi@192.168.122.94/hor
A10
LFTP version is 4.8.4
Password for 'dapi@192.168.122.94':
Local and Remote metadata are synchronized, no sync needed.
Last full backup date: Mon Jan 31 16:44:27 2022
GnuPG passphrase for decryption:
Retype passphrase for decryption to confirm:
-----[ Backup Statistics ]-----
StartTime 1643643998.31 (Mon Jan 31 16:46:38 2022)
EndTime 1643643998.32 (Mon Jan 31 16:46:38 2022)
ElapsedTime 0.01 (0.01 seconds)
SourceFiles 5
SourceFileSize 4195 (4.10 KB)
NewFiles 1
NewFileSize 4096 (4.00 KB)
DeletedFiles 1
ChangedFiles 2
ChangedFileSize 76 (76 bytes)
ChangedDeltaSize 0 (0 bytes)
DeltaEntries 4
RawDeltaSize 90 (90 bytes)
TotalDestinationSizeChange 348 (348 bytes)
Errors 0
-----
```



5. Recupereu la còpia del punt 3.

```
dapi@m7ubuclient:~$ sudo duplicity --force --restore-time 20220131T154427Z ftp://d
2.94//home/dapi/backup_A10 /home/dapi/recu
LFTP version is 4.8.4
Password for 'dapi@192.168.122.94':
Synchronizing remote metadata to local cache...
GnuPG passphrase for decryption:
Copying duplicity-full-signatures.20220131T154427Z.sigtar.gpg to local cache.
Copying duplicity-full.20220131T154427Z.manifest.gpg to local cache.
Copying duplicity-inc.20220131T154427Z.to.20220131T154634Z.manifest.gpg to local c
Copying duplicity-new-signatures.20220131T154427Z.to.20220131T154634Z.sigtar.gpg t
Last full backup date: Mon Jan 31 16:44:27 2022
dapi@m7ubuclient:~$
```

7. Programeu les còpies seguint el següent plan:

- **Completa.** Els dissabtes a les 02:45 hores.
- **Incremental.** De dilluns a divendres a les 01:30 hores.

```
GNU nano 4.8 /srv/incremental.sh Modificado
PASSPHRASE="4154" duplicity incremental docs_A10/ ftp://dapi@192.168.122.94//home/dapi/backup_A10
```

```
GNU nano 4.8 /srv/completa.sh
PASSPHRASE="4154" duplicity full docs_A10/ ftp://dapi@192.168.122.94//home/dapi/backup_A10
```

```
dapi@m7ubuclient:~$ sudo chmod +x /srv/completa.sh
dapi@m7ubuclient:~$ sudo chmod +x /srv/incremental.sh.sh
chmod: no se puede acceder a '/srv/incremental.sh.sh': No existe el archivo o el directorio
dapi@m7ubuclient:~$ sudo chmod +x /srv/incremental.sh.
chmod: no se puede acceder a '/srv/incremental.sh.': No existe el archivo o el directorio
dapi@m7ubuclient:~$ sudo chmod +x /srv/incremental.sh
dapi@m7ubuclient:~$
```

```
dapi@m7ubuclient:~$ crontab -u dapi -e
no crontab for dapi - using an empty one
```

```
Select an editor. To change later, run 'select-editor'.
 1. /bin/nano          <---- easiest
 2. /usr/bin/vim.tiny
 3. /bin/ed
```

```
Choose 1-3 [1]: 1
crontab: installing new crontab
dapi@m7ubuclient:~$
```

```
45 2 * * 6 /srv/completa.sh
30 1 * * 1-5 /srv/incremental.sh
```



8. Feu la compressió de la carpeta docs_A10 amb TAR

```
dapi@m7ubucient:~$ tar -czf /home/dapi/docs_A10/backup$(date +%Y%m%d).tar.gz docs_A10
dapi@m7ubucient:~$ ls
Descargas  Documentos  Imágenes  Plantillas  recupera
docs_A10   Escritorio  Música    Público     Vídeos
dapi@m7ubucient:~$ ls docs_A10/
backup20220131.tar.gz  prueba1  prueba2  prueba3  prueba5
dapi@m7ubucient:~$
```

```
dapi@m7ubucient:~$ scp /home/dapi/docs_A10/*.tar.gz dapi@192.168.122.94:/home/dapi/backup_A10/backup02201113.tar.gz
dapi@m7ubucient:~$ scp /home/dapi/docs_A10/*.tar.gz dapi@192.168.122.94:/home/dapi/backup_A10/backup20220131.tar.gz
dapi@m7ubucient:~$
```

```
dapi@m7ubuserver:~/backup_A10$ ls
backup02201113.tar.gz
duplicity-full.20220131T154427Z.manifest.gpg
duplicity-full.20220131T154427Z.vol1.difftar.gpg
duplicity-full-signatures.20220131T154427Z.sigtar.gpg
duplicity-inc.20220131T154427Z.to.20220131T154634Z.manifest.gpg
duplicity-inc.20220131T154427Z.to.20220131T154634Z.vol1.difftar.gpg
duplicity-inc-signatures.20220131T154427Z.to.20220131T154634Z.sigtar.gpg
dapi@m7ubuserver:~/backup_A10$
```

9. Genereu còpies tar programades automàticament (crontab)

```
dapi@m7ubucient:~$ sudo nano /srv/copiacomprimida.sh
[sudo] contrasenya para dapi:
dapi@m7ubucient:~$
dapi@m7ubucient:~$ crontab -u dapi -e
crontab: installing new crontab
dapi@m7ubucient:~$
```

```
GNU nano 4.8 /srv/copiacomprimida.sh Modificado
tar -czf /home/dapi/docs_A10/backup$(date +%Y%m%d).tar.gz
scp /home/dapi/docs_A10/backup$(date +%Y%m%d).tar.gz dapi@192.168.122.94:/home/dapi/backup_A10/
```

```
# * * * * * 6 /srv/completa.sh
# * * * * * 1-5 /srv/incremental.sh
# * * * * * 6 /srv/copiacomprimida.sh
```