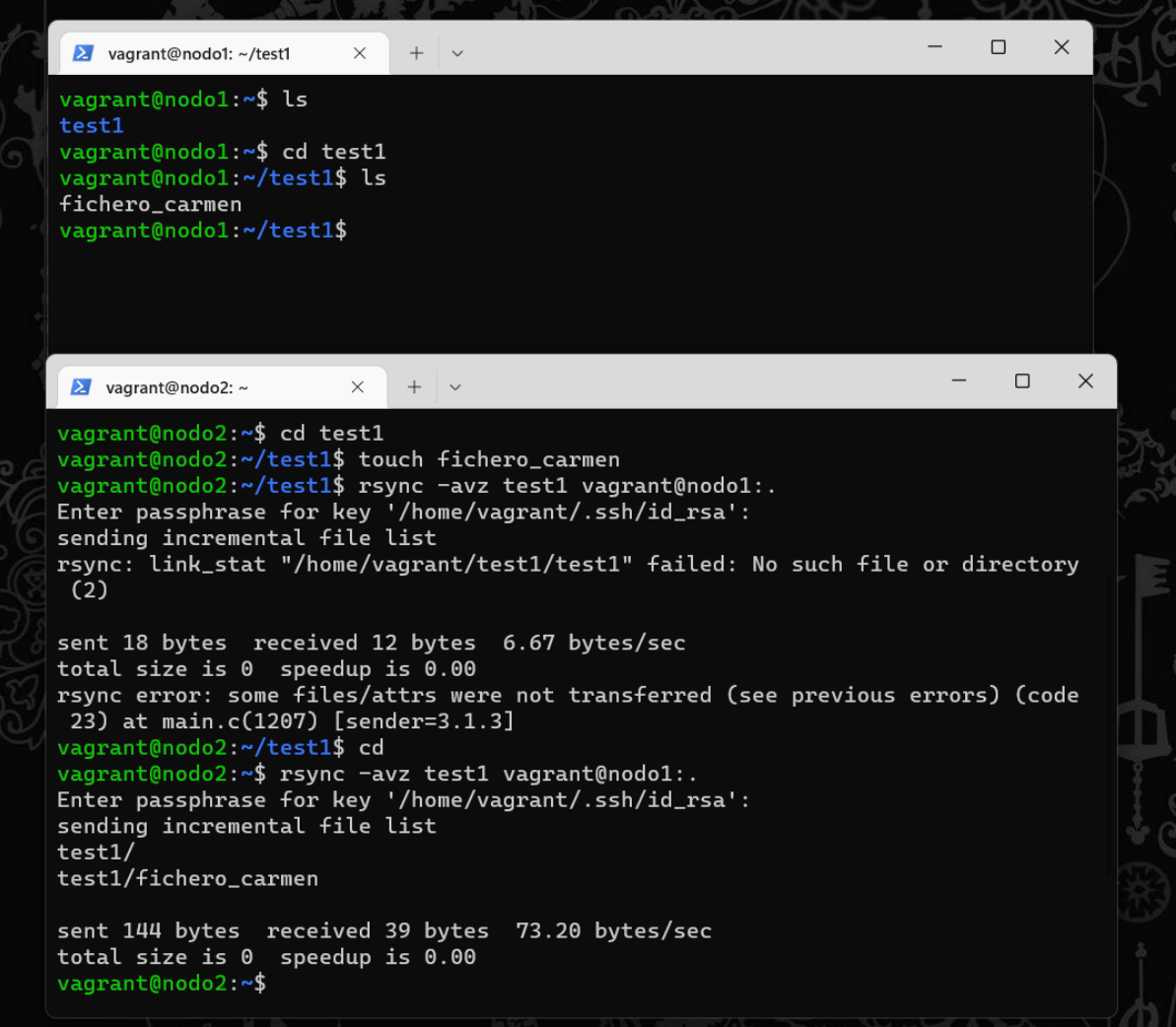


Practica 7: Acceso remoto

1.Almacenamiento Rsync con SSH



```
vagrant@nodo1: ~/test1
vagrant@nodo1:~$ ls
test1
vagrant@nodo1:~$ cd test1
vagrant@nodo1:~/test1$ ls
fichero_carmen
vagrant@nodo1:~/test1$

vagrant@nodo2: ~
vagrant@nodo2:~$ cd test1
vagrant@nodo2:~/test1$ touch fichero_carmen
vagrant@nodo2:~/test1$ rsync -avz test1 vagrant@nodo1:.
Enter passphrase for key '/home/vagrant/.ssh/id_rsa':
sending incremental file list
rsync: link_stat "/home/vagrant/test1/test1" failed: No such file or directory
(2)

sent 18 bytes  received 12 bytes  6.67 bytes/sec
total size is 0  speedup is 0.00
rsync error: some files/attrs were not transferred (see previous errors) (code
23) at main.c(1207) [sender=3.1.3]
vagrant@nodo2:~/test1$ cd
vagrant@nodo2:~$ rsync -avz test1 vagrant@nodo1:.
Enter passphrase for key '/home/vagrant/.ssh/id_rsa':
sending incremental file list
test1/
test1/fichero_carmen

sent 144 bytes  received 39 bytes  73.20 bytes/sec
total size is 0  speedup is 0.00
vagrant@nodo2:~$
```

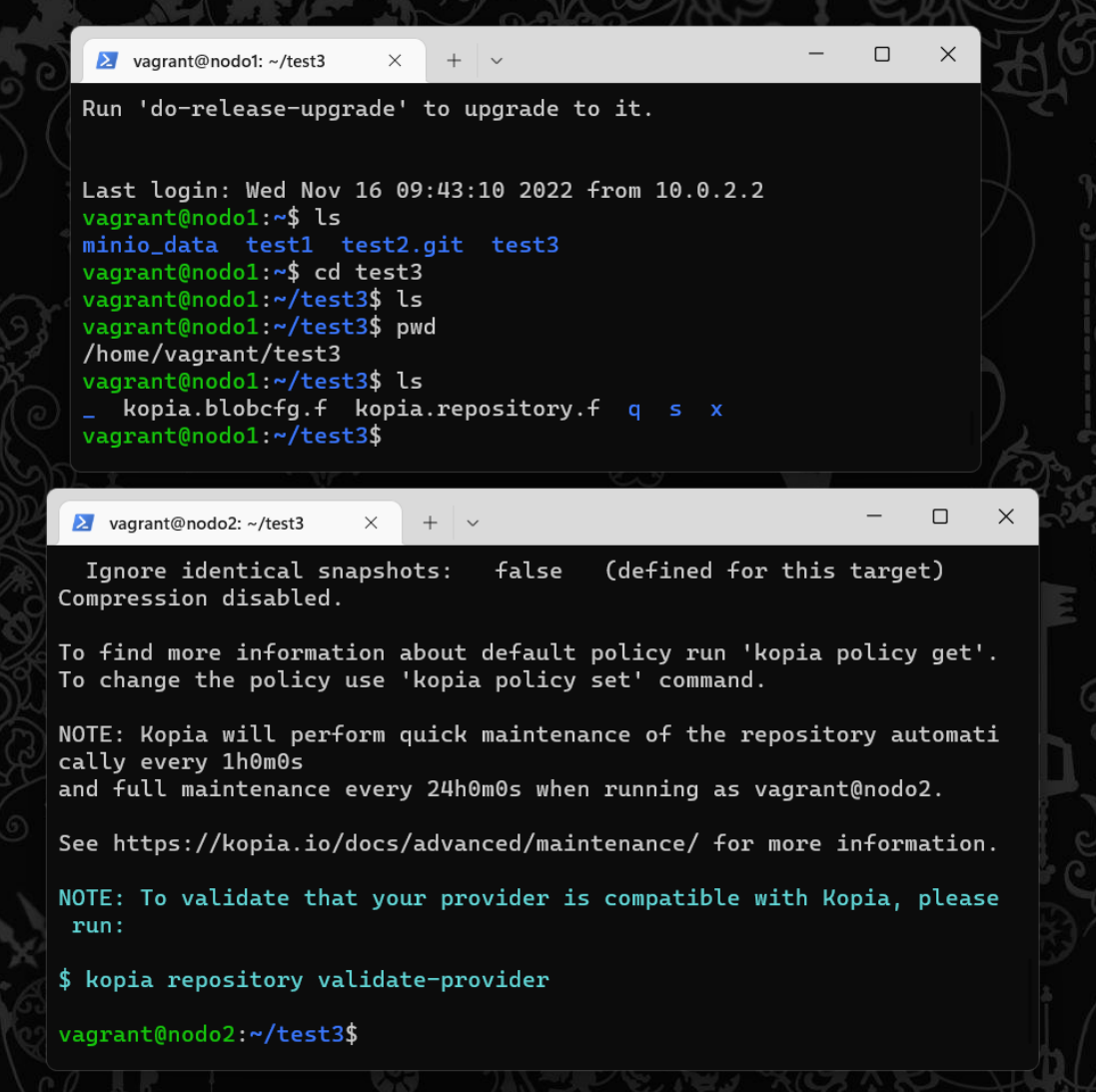
2.Servidor GIT

```
vagrant@nodo2: ~/devel/test  x + v
vagrant@nodo2:~/devel/test2$ touch fichero_git_carmen
vagrant@nodo2:~/devel/test2$ cd ..
vagrant@nodo2:~/devel$ cd test2
vagrant@nodo2:~/devel/test2$ git add *
vagrant@nodo2:~/devel/test2$ git commit -m "2º commit"
[master 3cf06fd] 2º commit
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 test2/fichero_git_carmen
vagrant@nodo2:~/devel/test2$ git push -u origin master
Enter passphrase for key '/home/vagrant/.ssh/id_rsa':
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 322 bytes | 322.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To nodo1:/home/vagrant/test2.git
 8c9718c..3cf06fd  master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
vagrant@nodo2:~/devel/test2$ git status
On branch master
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean
vagrant@nodo2:~/devel/test2$
```

3. Copias de seguridad con Kopia mediante SSH

Conectamos las carpetas test3



The image shows two terminal windows side-by-side. The top window is titled 'vagrant@nodo1: ~/test3' and shows the user logging in, listing files in the home directory, navigating to the 'test3' directory, and listing its contents. The bottom window is titled 'vagrant@nodo2: ~/test3' and shows Kopia configuration messages, including instructions on snapshots, policy, and maintenance, followed by a command to validate the provider.

```
vagrant@nodo1: ~/test3
Run 'do-release-upgrade' to upgrade to it.

Last login: Wed Nov 16 09:43:10 2022 from 10.0.2.2
vagrant@nodo1:~$ ls
minio_data  test1  test2.git  test3
vagrant@nodo1:~$ cd test3
vagrant@nodo1:~/test3$ ls
vagrant@nodo1:~/test3$ pwd
/home/vagrant/test3
vagrant@nodo1:~/test3$ ls
_ kopia.blobcfg.f kopia.repository.f  q  s  x
vagrant@nodo1:~/test3$

vagrant@nodo2: ~/test3
Ignore identical snapshots:  false  (defined for this target)
Compression disabled.

To find more information about default policy run 'kopia policy get'.
To change the policy use 'kopia policy set' command.

NOTE: Kopia will perform quick maintenance of the repository automati
cally every 1h0m0s
and full maintenance every 24h0m0s when running as vagrant@nodo2.

See https://kopia.io/docs/advanced/maintenance/ for more information.

NOTE: To validate that your provider is compatible with Kopia, please
run:

$ kopia repository validate-provider
vagrant@nodo2:~/test3$
```

Creamos los archivos

```
vagrant@nodo2:~/test3$ ls
vagrant@nodo2:~/test3$ touch archivo1 archivo2 archivo3
vagrant@nodo2:~/test3$ ls
archivo1  archivo2  archivo3
```

Hacemos una copia incremental

```
vagrant@nodo2:~/test3$ kopia snapshot /home/vagrant/test3/
Enter passphrase for key '/home/vagrant/.ssh/id_rsa':
Snapshotting vagrant@nodo2:/home/vagrant/test3 ...
 * 0 hashing, 0 hashed (0 B), 0 cached (0 B), uploaded 0 B, estimating...
Created snapshot with root kfb07bcb32641bdf4bb364a7e04ced9a and ID fe56fd
d08ef0d3c8348769a3c71a27d8 in 0s
vagrant@nodo2:~/test3$ |
```

Recuperamos los ficheros en la carpeta test3b**

```
vagrant@nodo2:~/test3$ kopia snapshot restore a2f34588e200107e7003bb2f4b93
e594 copiaNueva
Enter passphrase for key '/home/vagrant/.ssh/id_rsa':
Restoring to local filesystem (/home/vagrant/test3/copiaNueva) with parall
elism=8...
Processed 3 (0 B) of 2 (0 B).
Restored 2 files, 1 directories and 0 symbolic links (0 B).

vagrant@nodo2:~/test3$ ls
copiaNueva  file1  file2
vagrant@nodo2:~/test3$ cd copiaNueva/
vagrant@nodo2:~/test3/copiaNueva$ ls
file1  file2
vagrant@nodo2:~/test3/copiaNueva$
```

****Nota:** la carpeta copiaNueva es la correspondiente a test3b del guión.

4.Minio

- Instalamos y lanzamos el docker

```
vagrant@nodo1:~$ sudo apt -y install apt-transport-https ca-certificates curl software-properties-common
Reading package lists... Done
Building dependency tree
Reading state information... Done
ca-certificates is already the newest version (20211016~20.04.1).
curl is already the newest version (7.68.0-1ubuntu2.14).
software-properties-common is already the newest version (0.99.9.8).
apt-transport-https is already the newest version (2.0.9).
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
vagrant@nodo1:~$
```

```
vagrant@nodo1:~$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
OK
```

```
vagrant@nodo1:~$ sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu focal InRelease"
Hit:1 https://download.docker.com/linux/ubuntu focal InRelease
Hit:2 http://archive.ubuntu.com/ubuntu focal InRelease
Hit:3 http://security.ubuntu.com/ubuntu focal-security InRelease
Hit:4 http://archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:5 http://archive.ubuntu.com/ubuntu focal-backports InRelease
Reading package lists... 52%
Reading package lists... Done
vagrant@nodo1:~$
```

```
vagrant@nodo1:~$ docker run -p 9000:9000 \
> --name minio1 \
> -v /home/vagrant/minio_data:/data \
> -e "MINIO_ACCESS_KEY=CpDrandom20" \
> -e "MINIO_SECRET_KEY=scretkcPd20CY" \
> minio/minio server /data &
[1] 14935
```

- 4b. Probamos el cliente para acceder al servidor

```

support      support related commands
license      license related commands
share        generate URL for temporary access to an object
version      manage bucket versioning
ilm          manage bucket lifecycle
encrypt      manage bucket encryption config
event        manage object notifications
watch        listen for object notification events
undo         undo PUT/DELETE operations
anonymous    manage anonymous access to buckets and objects
vagrant@nodo2:~$ ./mc alias set minio http://nodo1:9000 CpDrandom2
0 scretkcPd20CY
mc: Configuration written to '/home/vagrant/.mc/config.json'. Please
update your access credentials.
mc: Successfully created '/home/vagrant/.mc/share'.
mc: Initialized share uploads '/home/vagrant/.mc/share/uploads.js
n' file.
mc: Initialized share downloads '/home/vagrant/.mc/share/downloads
.json' file.
Added 'minio' successfully.
vagrant@nodo2:~$ ./mc mb minio/testx1
Bucket created successfully 'minio/testx1'.
vagrant@nodo2:~$ ./mc mb minio/testx1/d1
Bucket created successfully 'minio/testx1/d1'.
vagrant@nodo2:~$ ./mc cp f1 minio/testx1/d1

vagrant@nodo2:~$ ./mc cp f1 minio/testx1
0 B / ?
vagrant@nodo2:~$

```

Comprobamos que se ha copiado el fichero f1

```

vagrant@nodo1:~$ cd minio_data/
vagrant@nodo1:~/minio_data$ ls
testx1
vagrant@nodo1:~/minio_data$ cd testx1/
vagrant@nodo1:~/minio_data/testx1$ ls
d1__XLDIR__ f1

```

- 4c. AS3 Browser

