

CPD Práctica 8

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Parte Obligatoria

Rsync copiando la carpeta "test1":

```
[vagrant@nodo1:~]$ touch test1/holaa
[vagrant@nodo1:~]$ rsync -avz test1 vagrant@nodo2:$HOME/
vagrant@nodo2's password:
sending incremental file list
test1/
test1/holaa

sent 135 bytes  received 39 bytes  49.71 bytes/sec
total size is 0  speedup is 0.00
[vagrant@nodo1:~]$ ssh nodo2
vagrant@nodo2's password:
Welcome to Ubuntu 20.04.1 LTS (GNU/Linux 5.4.0-51-generic x86_64)

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

System information as of Wed Nov 25 11:23:38 UTC 2020

System load:  0.0               Processes:           102
Usage of /:   3.2% of 38.71GB    Users logged in:    0
Memory usage: 22%              IPv4 address for enp0s3: 10.0.2.15
Swap usage:   0%                IPv4 address for enp0s8: 192.168.12.12

1 update can be installed immediately.
0 of these updates are security updates.
To see these additional updates run: apt list --upgradable

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

Last login: Wed Nov 25 11:09:18 2020 from 10.0.2.2
[vagrant@nodo2:~]$ ls
test1
```

Servidor git:

```
[vagrant@nodo2:~/devel$ mkdir test2
[vagrant@nodo2:~/devel$ ls
test2
[vagrant@nodo2:~/devel$ cd test2/
[vagrant@nodo2:~/devel/test2$ ls
[vagrant@nodo2:~/devel/test2$ git init
Initialized empty Git repository in /home/vagrant/devel/test2/.git/
[vagrant@nodo2:~/devel/test2$ >README
[vagrant@nodo2:~/devel/test2$
[vagrant@nodo2:~/devel/test2$
[vagrant@nodo2:~/devel/test2$ git add *
[vagrant@nodo2:~/devel/test2$ git commit -am "1er commit"

*** Please tell me who you are.

Run

  git config --global user.email "you@example.com"
  git config --global user.name "Your Name"

to set your account's default identity.
Omit --global to set the identity only in this repository.

fatal: empty ident name (for <vagrant@nodo2.vm>) not allowed
[vagrant@nodo2:~/devel/test2$ git config --global user.email "yo@jesus.com"
[vagrant@nodo2:~/devel/test2$ git config --global user.name "JESUS"
[vagrant@nodo2:~/devel/test2$
[vagrant@nodo2:~/devel/test2$ git commit -am "1er commit"
[master (root-commit) f98fc71] 1er commit
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 README
[vagrant@nodo2:~/devel/test2$ git remote add origin vagrant@nodo1:/home/vagrant/t
est2.git
[vagrant@nodo2:~/devel/test2$ git push -u origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 201 bytes | 100.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To nodo1:/home/vagrant/test2.git
 * [new branch]      master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
```

Test con Minio:

testx1 /

Q Search Objects...

Name	Size	Last Modified	
f1	0 bytes	Nov 25, 2020 1:22 PM	...

```

etkCpd20CY
mc: Configuration written to `/home/vagrant/.mc/config.json`. Please
date your access credentials.
mc: Successfully created `/home/vagrant/.mc/share`.
mc: Initialized share uploads `/home/vagrant/.mc/share/uploads.json
le.
mc: Initialized share downloads `/home/vagrant/.mc/share/downloads.
` file.
Added `minio` successfully.
vagrant@node2:~$ ./mc mb minio/testx1
Bucket created successfully `minio/testx1`.
vagrant@node2:~$
vagrant@node2:~$
vagrant@node2:~$
vagrant@node2:~$ ll
total 19208
drwxr-xr-x 7 vagrant vagrant 4096 Nov 25 12:18 ./
drwxr-xr-x 4 root root 4096 Nov 25 10:49 ../
-rw-r--r-- 1 vagrant vagrant 666 Nov 25 11:55 .bash_history
-rw-r--r-- 1 vagrant vagrant 220 Oct 16 22:04 .bash_logout
-rw-r--r-- 1 vagrant vagrant 3771 Oct 16 22:04 .bashrc
drwx----- 2 vagrant vagrant 4096 Nov 25 10:49 .cache/
-rw-rw-r-- 1 vagrant vagrant 43 Nov 25 11:50 .gitconfig
drwx----- 5 vagrant vagrant 4096 Nov 25 12:18 .mc/
-rw-r--r-- 1 vagrant vagrant 807 Oct 16 22:04 .profile
drwx----- 2 vagrant vagrant 4096 Nov 25 11:09 .ssh/
drwxrwxr-x 3 vagrant vagrant 4096 Nov 25 11:50 devel/
-rwxrwxr-x 1 vagrant vagrant 19619840 Nov 17 00:41 mc*
drwxrwxr-x 2 vagrant vagrant 4096 Nov 25 11:23 test1/
vagrant@node2:~$ touch test1/f1
vagrant@node2:~$ ./mc cp test1/f1 minio/testx1
0 B / ? |
vagrant@node2:~$

```

Clave GPG para usar con Duplicity:


```

[vagrant@nodo2:~$ gpg --gen-key
gpg (GnuPG) 2.2.19; Copyright (C) 2019 Free Software Foundation, Inc.
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.

gpg: directory '/home/vagrant/.gnupg' created
gpg: keybox '/home/vagrant/.gnupg/pubring.kbx' created
Note: Use "gpg --full-generate-key" for a full featured key generation dialog.

GnuPG needs to construct a user ID to identify your key.

[Real name: Jesus
[Email address: jesus@jesus.com
You selected this USER-ID:
    "Jesus <jesus@jesus.com>"

[Change (N)ame, (E)mail, or (O)kay/(Q)uit? O
We need to generate a lot of random bytes. It is a good idea to perform
some other action (type on the keyboard, move the mouse, utilize the
disks) during the prime generation; this gives the random number
generator a better chance to gain enough entropy.
We need to generate a lot of random bytes. It is a good idea to perform
some other action (type on the keyboard, move the mouse, utilize the
disks) during the prime generation; this gives the random number
generator a better chance to gain enough entropy.
gpg: /home/vagrant/.gnupg/trustdb.gpg: trustdb created
gpg: key BD1009AF0E183333 marked as ultimately trusted
gpg: directory '/home/vagrant/.gnupg/openpgp-revocs.d' created
gpg: revocation certificate stored as '/home/vagrant/.gnupg/openpgp-revocs.d/16B
BE75AE9815051365CCD69BD1009AF0E183333.rev'
public and secret key created and signed.

pub   rsa3072 2020-12-02 [SC] [expires: 2022-12-02]
       16BBE75AE9815051365CCD69BD1009AF0E183333
uid           Jesus <jesus@jesus.com>
sub   rsa3072 2020-12-02 [E] [expires: 2022-12-02]

[vagrant@nodo2:~$ duplicity

```

Duplicity funcionando:

```

vagrant@nodo2:~$ touch ./test3/holaduplicitySoyJesus
vagrant@nodo2:~$ ls
devel mc test1 test3
vagrant@nodo2:~$ ls test3
holaduplicitySoyJesus
[vagrant@nodo2:~$ duplicity full test3/ rsync://vagrant@nodo1//home/vagrant/test3b
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 1606910339.48 (Wed Dec 2 11:58:59 2020)
EndTime 1606910339.49 (Wed Dec 2 11:58:59 2020)
ElapsedTime 0.01 (0.01 seconds)
SourceFiles 2
SourceFileSize 4096 (4.00 KB)
NewFiles 2
NewFileSize 4096 (4.00 KB)
DeletedFiles 0
ChangedFiles 0
ChangedFileSize 0 (0 bytes)
ChangedDeltaSize 0 (0 bytes)
DeltaEntries 2
RawDeltaSize 0 (0 bytes)
TotalDestinationSizeChange 240 (240 bytes)
Errors 0
-----

```

```

vagrant@nodo2:~$ █

```

```

58 updates can be installed immediately.
26 of these updates are security updates.
To see these additional updates run: apt list --upgradable

```

```

Last login: Wed Dec 2 11:55:39 2020 from 10.0.2.2
[vagrant@nodo1:~$
[vagrant@nodo1:~$ ls
minio_data test1 test2.git test3b
[vagrant@nodo1:~$ ls test3b/
[vagrant@nodo1:~$
[vagrant@nodo1:~$
[vagrant@nodo1:~$ ls test3b/
duplicity-full-signatures.20201202T115854Z.sigtar.gpg
duplicity-full.20201202T115854Z.manifest.gpg
duplicity-full.20201202T115854Z.vol1.difftar.gpg
vagrant@nodo1:~$ █

```

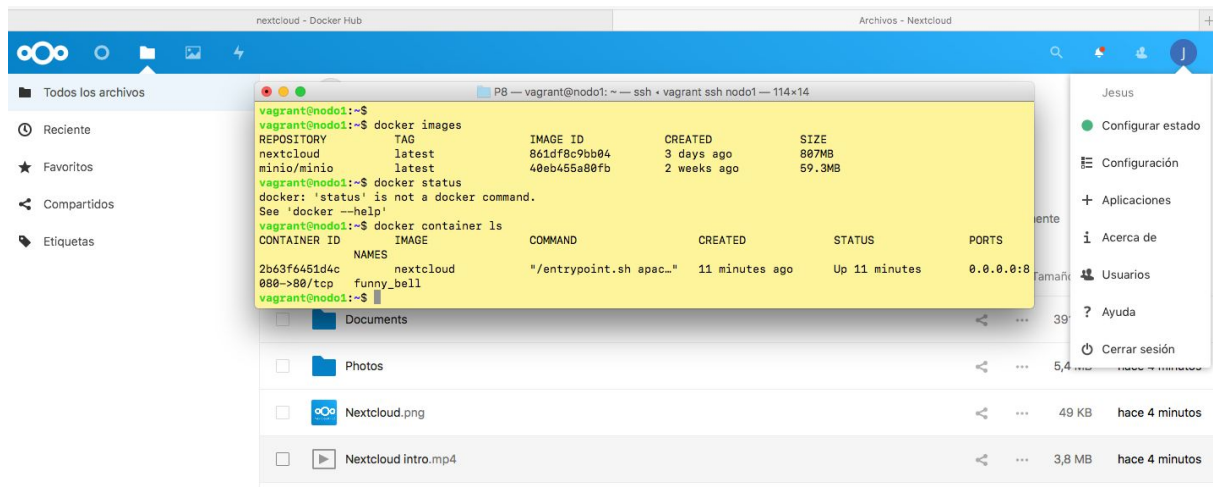
Comprobando Duplicity al recuperar archivos que he borrado:

```

[vagrant@nodo2:~$ rm test3/holaduplicitySoyJesus
[vagrant@nodo2:~$ ls test3/
[vagrant@nodo2:~$
[vagrant@nodo2:~$
[vagrant@nodo2:~$ duplicity restore rsync://vagrant@nodo1//home/vagrant/test3b test3
Local and Remote metadata are synchronized, no sync needed.
Last full backup date: Wed Dec 2 11:58:54 2020
GnuPG passphrase for decryption:
[vagrant@nodo2:~$ ls test3/
holaduplicitySoyJesus
vagrant@nodo2:~$ █

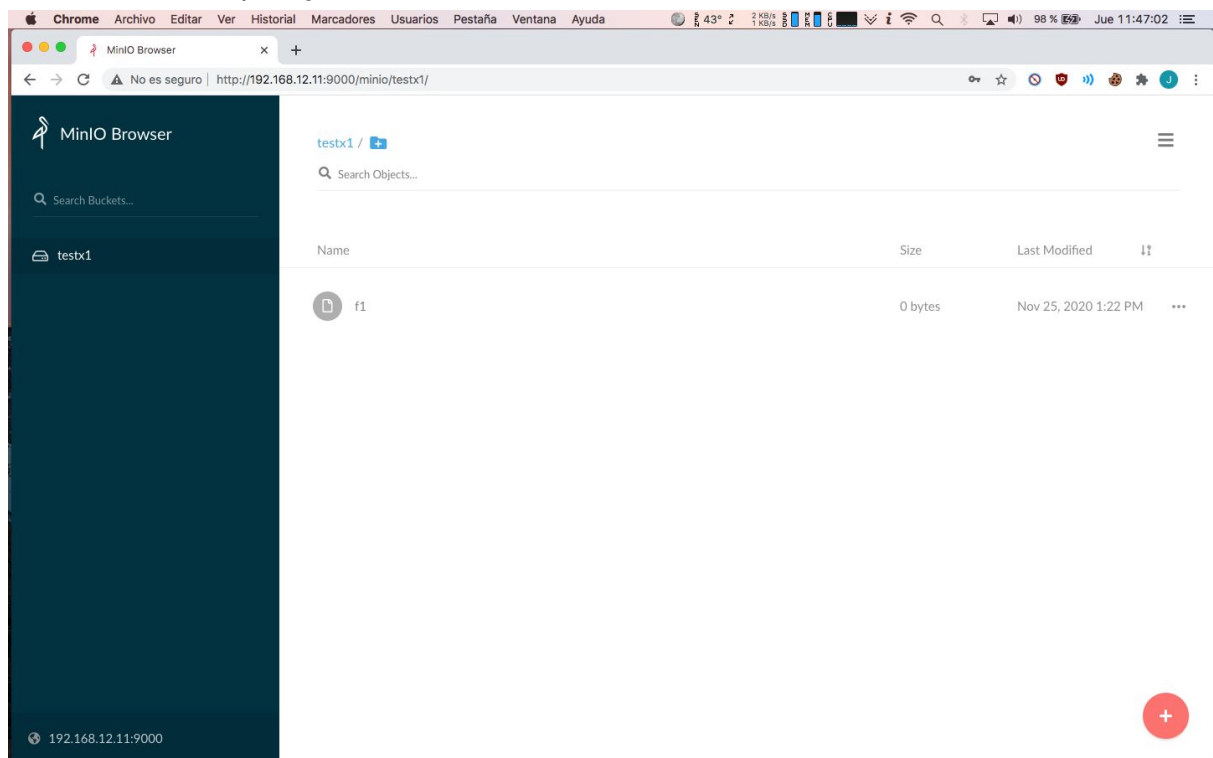
```

NextCloud funcionando:



Parte Opcional:

Minio antes de duplicity:



Minio después de usar con Duplicity:

ChromeArchivoEditarVerHistorialMarcadoresUsuariosPestañaVentanaAyuda

MiniIO Browser

http://192.168.12.11:9000/mi...

testx1 /

Search Objects...

Name	Size	Last Modified	
duplicity-full.20201203T10562...	229 bytes	Dec 3, 2020 11:56 AM	...
duplicity-full-signatures.202012...	255 bytes	Dec 3, 2020 11:56 AM	...
duplicity-full.20201203T10562...	238 bytes	Dec 3, 2020 11:56 AM	...
f1	0 bytes	Nov 25, 2020 1:22 PM	...

+

P8 — vagrant@nodo2: ~ — ssh • vagrant ssh nodo2 — 89x49

Usage of /: 3.7% of 38.71GB Users logged in: 0
Memory usage: 24% IPv4 address for enp0s3: 10.0.2.15
Swap usage: 0% IPv4 address for enp0s8: 192.168.12.12

* Introducing self-healing high availability clusters in MicroK8s.
Simple, hardened, Kubernetes for production, from RaspberryPi to DC.

<https://microk8s.io/high-availability>

0 updates can be installed immediately.
0 of these updates are security updates.

Last login: Thu Dec 3 10:50:36 2020 from 10.0.2.2
vagrant@nodo2:~\$ duplicity full test3/ rsync://vagrant@nodo1:/home/vagrant/minio_data/te
stx1/
Local and Remote metadata are synchronized, no sync needed.
Last full backup left a partial set, restarting.
Last full backup date: Thu Dec 3 10:53:47 2020
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.
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 1606993805.60 (Thu Dec 3 10:56:45 2020)
EndTime 1606993805.62 (Thu Dec 3 10:56:45 2020)
ElapsedTime 0.02 (0.02 seconds)
SourceFiles 2
SourceFileSize 4096 (4.00 KB)
NewFiles 2
NewFileSize 4096 (4.00 KB)
DeletedFiles 0
ChangedFiles 0
ChangedFileSize 0 (0 bytes)
ChangedDeltaSize 0 (0 bytes)
DeltaEntries 2
RawDeltaSize 0 (0 bytes)
TotalDestinationSizeChange 238 (238 bytes)
Errors 0

vagrant@nodo2:~\$
vagrant@nodo2:~\$
vagrant@nodo2:~\$
vagrant@nodo2:~\$