NFS

información

- http://es.tldp.org/Manuales-LuCAS/GARL2/garl2/x-087-2-nfs.html
- `mount -t nfs nfs_volume local_dir options` (se puede omitir `-t nfs` pq el formato de montaje es exclusivo de este protocolo)
    - `mount -t nfs vlager:/home /users`
- `cat /proc/filesystems` → ha de aparecer «nfs»

puesta en marcha de server/client

- server :
    - configuración servicio:

```
sudo apt-get install nfs-kernel-server nfs-common portmap
sudo vim /etc/exports # añadir el recurso, con parámetros y restricciones (según más abajo)
sudo exportfs -ra
sudo service nfs-kernel-server start
# altertativamente: sudo systemctl restart nfs-kernel-server
showmount -e
```

    - configuración directorio compartido:

```
mkdir /path/directorio/compartido
chown nobody:nogroup /path/directorio/compartido
```

- client :

```
sudo apt-get install nfs-common
sudo /etc/hosts # añadir, opcionalmente, la IP de la máquina remota y su "alias"
sudo mount -t nfs <ip>:<ruta> <ruta_local>
```

/etc/fstab

```
<ip_NFS_server:/path/directorio/compartido /punto/montaje nfs rw,async,hard,intr,noexec 0 0
```

- flags:
    - rw: Read/write filesystem.
    - ro: Read-only filesystem. Remote NFS clients can’t modify the filesystem.
    - hard: Applications using files stored on an NFS will always wait if the server goes down. User cannot terminate the process unless the option intr is set.
    - soft: Applications using files stored on an NFS will wait a specified time (using the timeo option) if the server goes down, and after that, will throw an error.
    - intr: Allows user interruption of processes waiting on a NFS request.
    - timeo=<num>: For use with the soft option. Specify the timeout for an NFS request.
    - nolock: Disable file locks. Useful with older NFS servers.

    - noexec: Disable execution of binaries or scripts on an NFS share.
    - nosuid: Prevents users from gaining ownership of files on the NFS share.
    - rsize=<num>: Sets the read block data size. Defaults to 8192 on NFSv2 and NFSv3, and 32768 on NFSv4.
    - wsize=<num>: Sets the write block data size. Defaults to 8192 on NFSv2 and NFSv3, and 32768 on NFSv4.

/etc/exports

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```
/path/directorio/compartir [<ip> | <rango_ip>]/<mascara>(flags)
```

- flags:
    - rw : lectura-escritura
    - ro : solo lectura
    - root_squash : impide que un cliente remoto con permiso ROOT pueda ejercerlos
    - subtree_check : Disable file location checks on partial volume exports. This option will speed up transfers on full volume exports.
    - sync : Force all transfers to operate in synchronous mode, so all clients will wait until their operations are really done. This can avoid data corruption in the event of a server crash.

apuntes

- quien puede montar (**/etc/exports**) :

/etc/exports/

```
/carpeta ip/mask (ro,root_squad) @ trusted (rw,no_root_squad)
```

- AUTOFS daemon
    - /etc/auto.master

+ info

- https://www.linode.com/docs/networking/nfs/how-to-mount-nfs-shares-on-debian-9/
- https://www.cyberciti.biz/faq/apple-mac-osx-nfs-mount-command-tutorial/

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