

Pràctica 1

Afegir hosts

```
nano /etc/hosts
    {ip-maquina} {nom-maquina}
```

NAT routing

Maquina exterior:

```
iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE
apt install iptables-persistent (per al reinici)
netfilter-persistent save (per al reinici)
```

```
nano /etc/sysctl.conf
    net.ipv4.ip_forward=1
sysctl -p
```

Maquina interior:

```
nano /etc/network/interfaces
    posar "interfaces" en primera posicio a "debian12"
    <reiniciar>
    exit (2a linea)
```

```
nano /etc/network/interfaces
    auto eth0
    iface eth0 inet static
        address 20.20.20.250
        netmask 255.255.252.0
        gateway {ip-extern}
systemctl restart networking
```

Practica 3

Crear RAID

Ben explicat a la pràctica original

GlusterFS

Servidores

Instala GlusterFS en ambos nodos (Ubuntu)

```
apt update
```

```
apt install -y glusterfs-server
```

Inicia el servicio y habilita al arranque

```
systemctl start glusterd
```

```
systemctl enable glusterd
```

```
gluster peer status
```

Desde node1, añade node2 al clúster

```
gluster peer probe node2
```

```
gluster volume create vol1 replica 2 {ip-1}:/data/brick1 {ip-2}:/data/brick1 force
```

```
gluster volume start vol1
```

Cliente

```
apt install -y glusterfs-client
```

```
mount -t glusterfs node1:/vol1 /mnt/glusterfs
```

Crear LVM

Ben explicat a la pràctica original

Practica 1 (versió Adrià)

sudo -i

Afegir hosts

nano /etc/hosts

{ip-maquina} {nom-maquina} → 10.10.10.X ma, ma-gw, mb

NAT routing

Maquina exterior:

iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE

apt install iptables-persistent (per al reinici)

netfilter-persistent save (per al reinici)

nano /etc/sysctl.conf

net.ipv4.ip_forward=1

sysctl -p

Maquina interior:

nano /etc/network/interfaces → linea 42 canviar interfaces (tercera posició a primera) debian12

afegir gateway {ip-extern} a /etc/network/interfaces

nano /etc/network/interfaces

auto eth0

iface eth0 inet static

address 20.20.20.X

netmask 255.255.252.0

gateway {ip-extern}

systemctl restart networking

DNS

Maquina exterior:

Anar a /etc/resolv.conf i copiar les ips dns

apt install dnsmasq

systemctl disable --now systemd-resolved → treure el systemd

unlink /etc/resolv.conf

nano /etc/resolv.conf posar les dues ips + 127.0.0.1

