1-

a) Configuración netplan en el servidor:

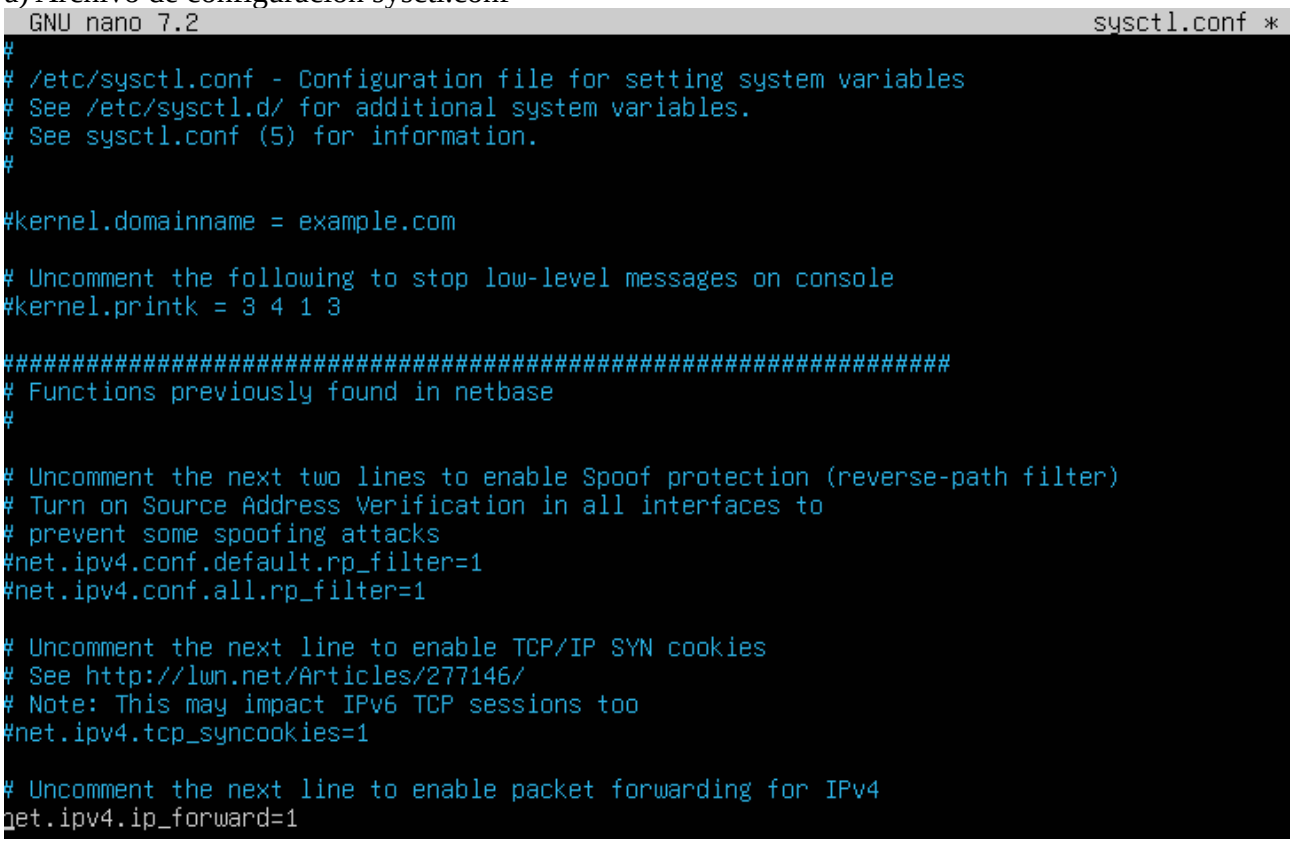
```
 GNU nano 7.2                                                  netplan/50-cloud-init.yaml
# This file is generated from information provided by the datasource.  Changes
# to it will not persist across an instance reboot.  To disable cloud-init's
# network configuration capabilities, write a file
# /etc/cloud/cloud.cfg.d/99-disable-network-config.cfg with the following:
# network: {config: disabled}
network:
    ethernets:
        enp0s3:
            dhcp4: true
        enp0s8:
            dhcp4: false
            addresses: [192.168.1.100/24]
    version: 2
```

b) Configuración de IP de cliente y ping a la IP del servidor

```
rufes@rufescliente:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group defaul
t qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
       valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP
group default qlen 1000
    link/ether 08:00:27:7b:57:d4 brd ff:ff:ff:ff:ff:ff
    inet 192.168.1.10/24 brd 192.168.1.255 scope global noprefixroute enp0s3
       valid_lft forever preferred_lft forever
    inet6 fe80::4f5a:c471:4e18:93e/64 scope link noprefixroute
       valid_lft forever preferred_lft forever
rufes@rufescliente:~$ ping 192.168.1.100
PING 192.168.1.100 (192.168.1.100) 56(84) bytes of data.
64 bytes from 192.168.1.100: icmp_seq=1 ttl=64 time=0.889 ms
64 bytes from 192.168.1.100: icmp_seq=2 ttl=64 time=1.06 ms
64 bytes from 192.168.1.100: icmp_seq=3 ttl=64 time=1.01 ms
64 bytes from 192.168.1.100: icmp_seq=4 ttl=64 time=1.03 ms
^C
--- 192.168.1.100 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3002ms
rtt min/avg/max/mdev = 0.889/0.995/1.056/0.063 ms
```

2

a) Archivo de configuración sysctl.conf




b) Habría que descomentar la línea “net.ipv6.conf.all.forwarding=1”

3

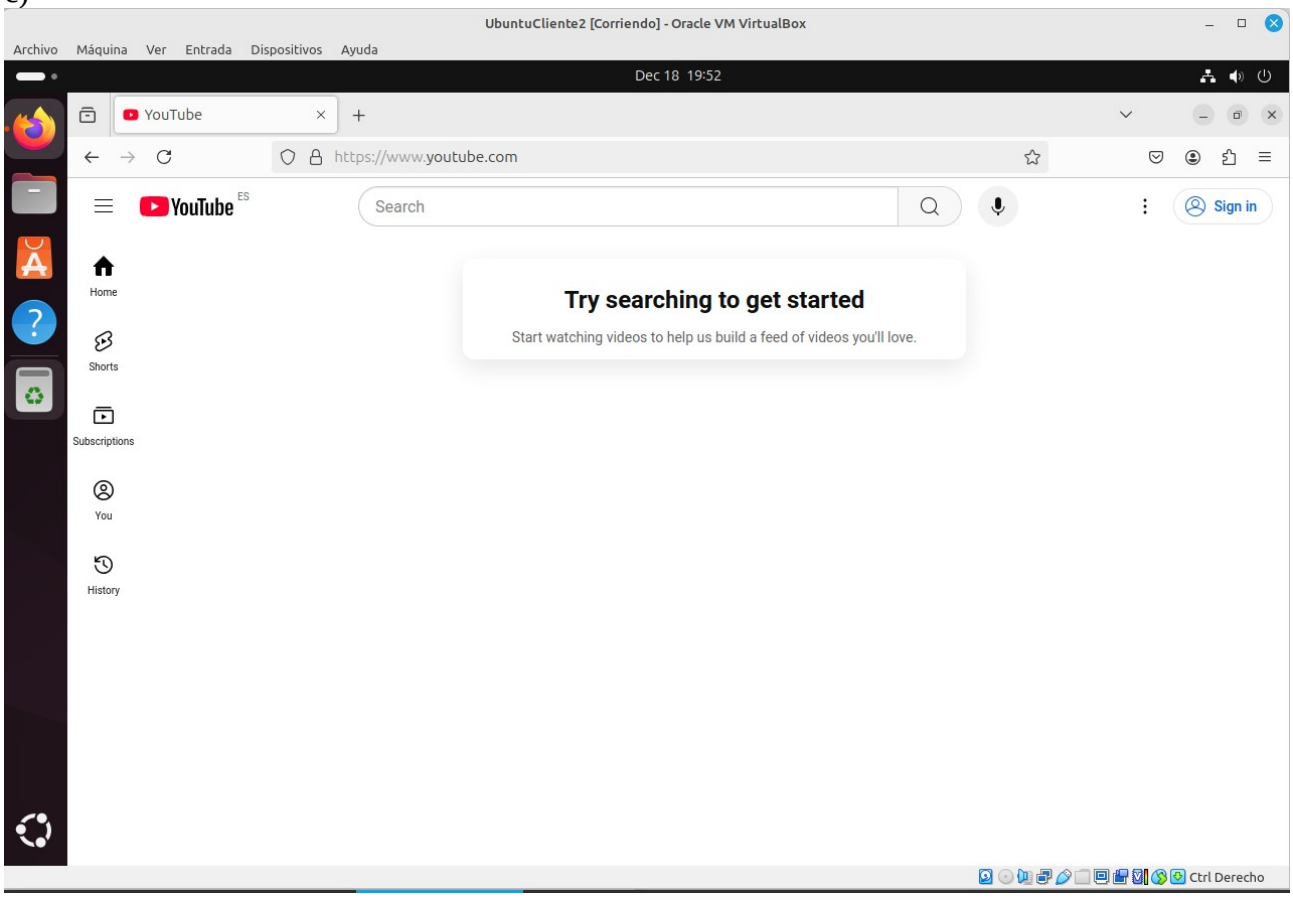
a)

```
rufes@rufesserver:/etc/rc5.d$ ls -la
total 8
drwxr-xr-x   2 root root 4096 Dec 13 17:37 .
drwxr-xr-x 108 root root 4096 Dec 13 17:25 ..
lrwxrwxrwx   1 root root   16 Aug 27 14:21 S01apport -> ../init.d/apport
lrwxrwxrwx   1 root root   26 Aug 27 14:21 S01console-setup.sh -> ../init.d/console-setup.sh
lrwxrwxrwx   1 root root   14 Aug 27 14:26 S01cron -> ../init.d/cron
lrwxrwxrwx   1 root root   14 Aug 27 14:21 S01dbus -> ../init.d/dbus
lrwxrwxrwx   1 root root   21 Dec 11 19:12 S01grub-common -> ../init.d/grub-common
lrwxrwxrwx   1 root root   23 Aug 27 14:26 S01open-vm-tools -> ../init.d/open-vm-tools
lrwxrwxrwx   1 root root   18 Aug 27 14:21 S01plymouth -> ../init.d/plymouth
lrwxrwxrwx   1 root root   15 Aug 27 14:26 S01rsync -> ../init.d/rsync
lrwxrwxrwx   1 root root   17 Aug 27 14:26 S01sysstat -> ../init.d/sysstat
lrwxrwxrwx   1 root root   29 Aug 27 14:21 S01unattended-upgrades -> ../init.d/unattended-upgrades
lrwxrwxrwx   1 root root   15 Aug 27 14:26 S01uuidd -> ../init.d/uuidd
lrwxrwxrwx   1 root root   23 Dec 13 17:37 S05activarnat -> ../init.d/activarnat.sh
```

b)

```
rufes@rufesserver:/etc/init.d$ cat activarnat.sh
#! /bin/bash
/sbin/iptables -P FORWARD ACCEPT
/sbin/iptables --table nat -A POSTROUTING -s 192.168.1.0/24 -o enp0s3 -j MASQUERADE
```

c)

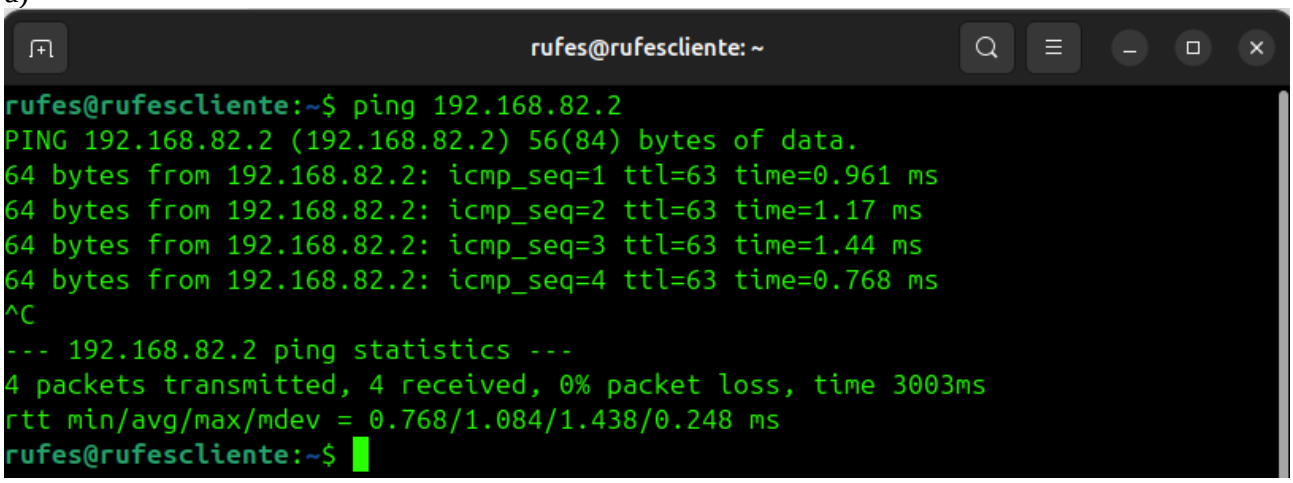



d)

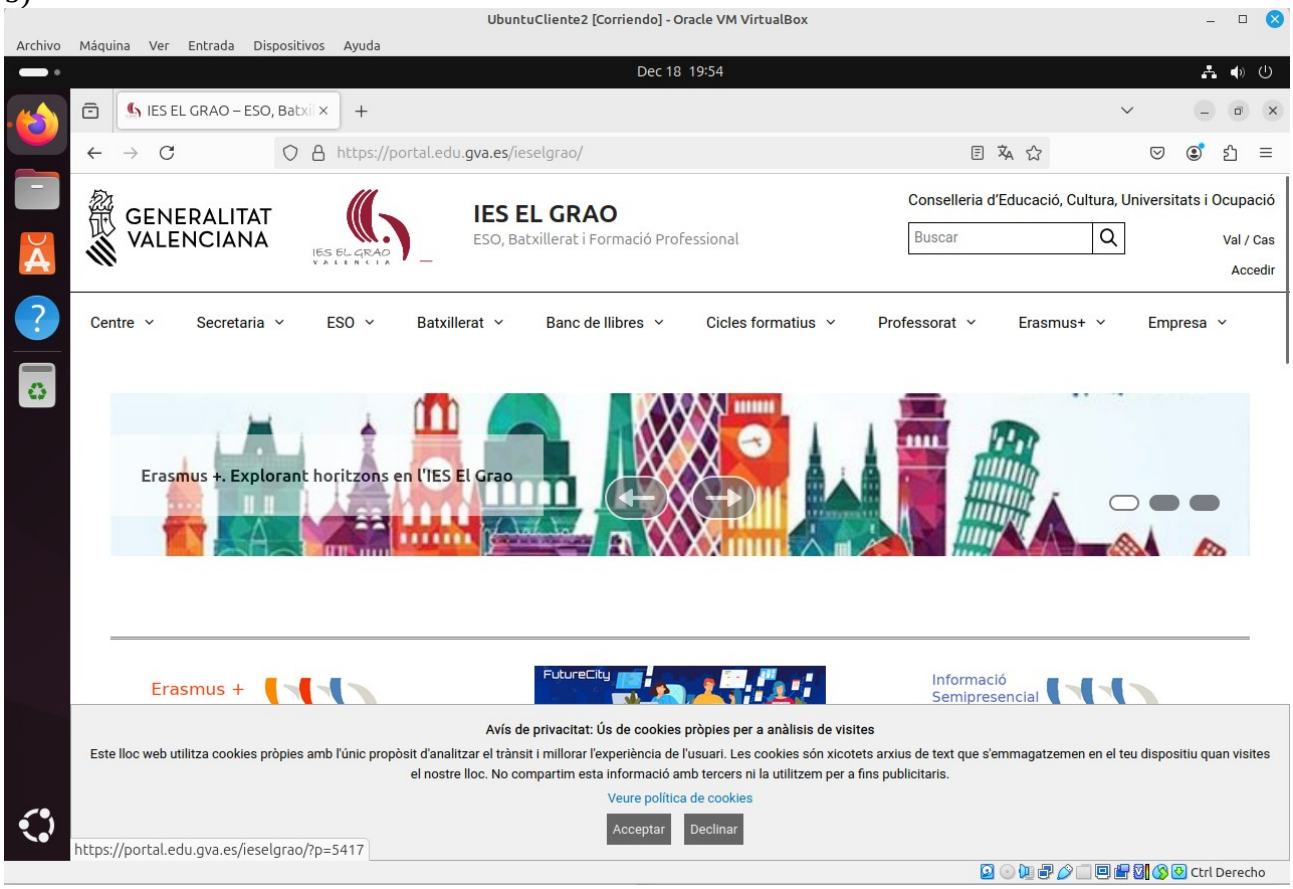
No carga el script al iniciar el pc, por lo que el cliente quedaría sin internet

4

a)


rufes@rufescliente: ~
rufes@rufescliente:~$ ping 192.168.82.2
PING 192.168.82.2 (192.168.82.2) 56(84) bytes of data.
64 bytes from 192.168.82.2: icmp_seq=1 ttl=63 time=0.961 ms
64 bytes from 192.168.82.2: icmp_seq=2 ttl=63 time=1.17 ms
64 bytes from 192.168.82.2: icmp_seq=3 ttl=63 time=1.44 ms
64 bytes from 192.168.82.2: icmp_seq=4 ttl=63 time=0.768 ms
^C
--- 192.168.82.2 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3003ms
rtt min/avg/max/mdev = 0.768/1.084/1.438/0.248 ms
rufes@rufescliente:~$

b)


UbuntuCliente2 [Corriendo] - Oracle VM VirtualBox
Archivo Máquina Ver Entrada Dispositivos Ayuda
Dec 18 19:54
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