

```
root@alumno-VirtualBox: /home/alumno
Archivo Editar Ver Buscar Terminal Ayuda
GNU nano 2.9.3 /etc/default/isc-dhcp-server

# Defaults for isc-dhcp-server (sourced by /etc/init.d/isc-dhcp-server)

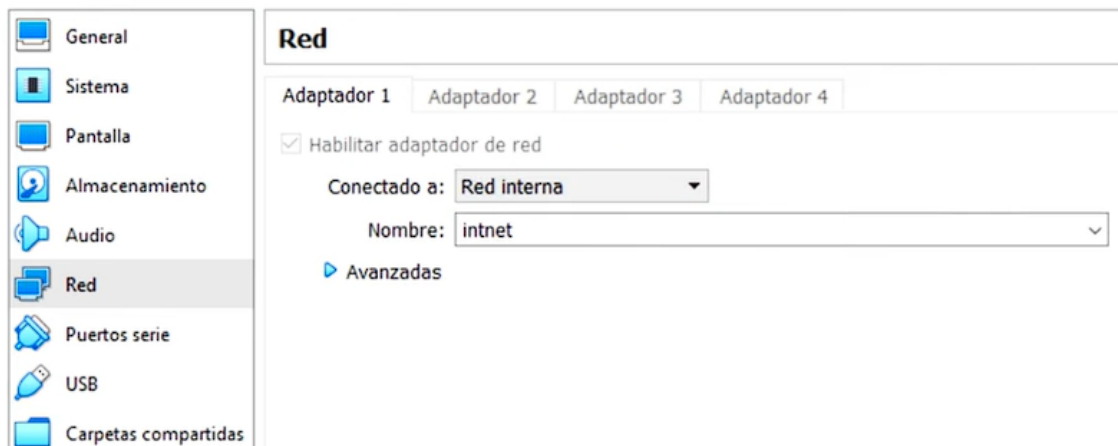
# Path to dhcpd's config file (default: /etc/dhcp/dhcpd.conf).
#DHCPDv4_CONF=/etc/dhcp/dhcpd.conf
#DHCPDv6_CONF=/etc/dhcp/dhcpd6.conf

# Path to dhcpd's PID file (default: /var/run/dhcpd.pid).
#DHCPDv4_PID=/var/run/dhcpd.pid
#DHCPDv6_PID=/var/run/dhcpd6.pid

# Additional options to start dhcpd with.
# Don't use options -cf or -pf here; use DHCPD_CONF/ DHCPD_PID instead
#OPTIONS=""

# On what interfaces should the DHCP server (dhcpd) serve DHCP requests?
# Separate multiple interfaces with spaces, e.g. "eth0 eth1".
INTERFACESv4="enp0s3"
INTERFACESv6=""

[ 18 líneas leídas ]
^G Ver ayuda ^O Guardar ^W Buscar ^K Cortar Tex ^J Justificar ^C Posición
^X Salir ^R Leer fich. ^\ Reemplazar ^U Pegar txt ^T Ortografía ^_ Ir a línea
```



Ahora configuramos el servidor para que tenga una dirección esstatica

```
root@alumno-VirtualBox: /home/alumno
Archivo Editar Ver Buscar Terminal Ayuda
GNU nano 2.9.3 /etc/network/interfaces

# interfaces(5) file used by ifup(8) and ifdown(8)
auto lo
iface lo inet loopback

auto enp0s3
iface enp0s3 inet static
    address 192.168.222.2
    netmask 255.255.255.0
    gateway 192.168.222.1
    dns-nameservers 1.1.1.1

[ 10 líneas leídas ]
^G Ver ayuda ^O Guardar ^W Buscar ^K Cortar Tex ^J Justificar ^C Posición
^X Salir ^R Leer fich. ^\ Reemplazar ^U Pegar txt ^T Ortografía ^_ Ir a línea
```

```
alumno@alumno-VirtualBox:~$ sudo su
[sudo] contraseña para alumno:
root@alumno-VirtualBox:/home/alumno# nano /etc/default/isc-dhcp-server
root@alumno-VirtualBox:/home/alumno# nano /etc/network/interfaces
root@alumno-VirtualBox:/home/alumno# service networking restart
root@alumno-VirtualBox:/home/alumno#
```

```
root@alumno-VirtualBox: /home/alumno
Archivo Editar Ver Buscar Terminal Ayuda
[sudo] contraseña para alumno:
root@alumno-VirtualBox:/home/alumno# nano /etc/default/isc-dhcp-server
root@alumno-VirtualBox:/home/alumno# nano /etc/network/interfaces
root@alumno-VirtualBox:/home/alumno# service networking restart
root@alumno-VirtualBox:/home/alumno# nano /etc/network/interfaces
root@alumno-VirtualBox:/home/alumno# ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.222.2 netmask 255.255.255.0 broadcast 192.168.222.255
    ether 08:00:27:cb:72:f9 txqueuelen 1000 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 119 bytes 19825 (19.8 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Bucle local)
    RX packets 126 bytes 9888 (9.8 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 126 bytes 9888 (9.8 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

root@alumno-VirtualBox:/home/alumno#
```

Configuramos los parámetros DHCP

```
option domain-name "example.org";
option domain-name-servers ns1.example.org, ns2.example.org;

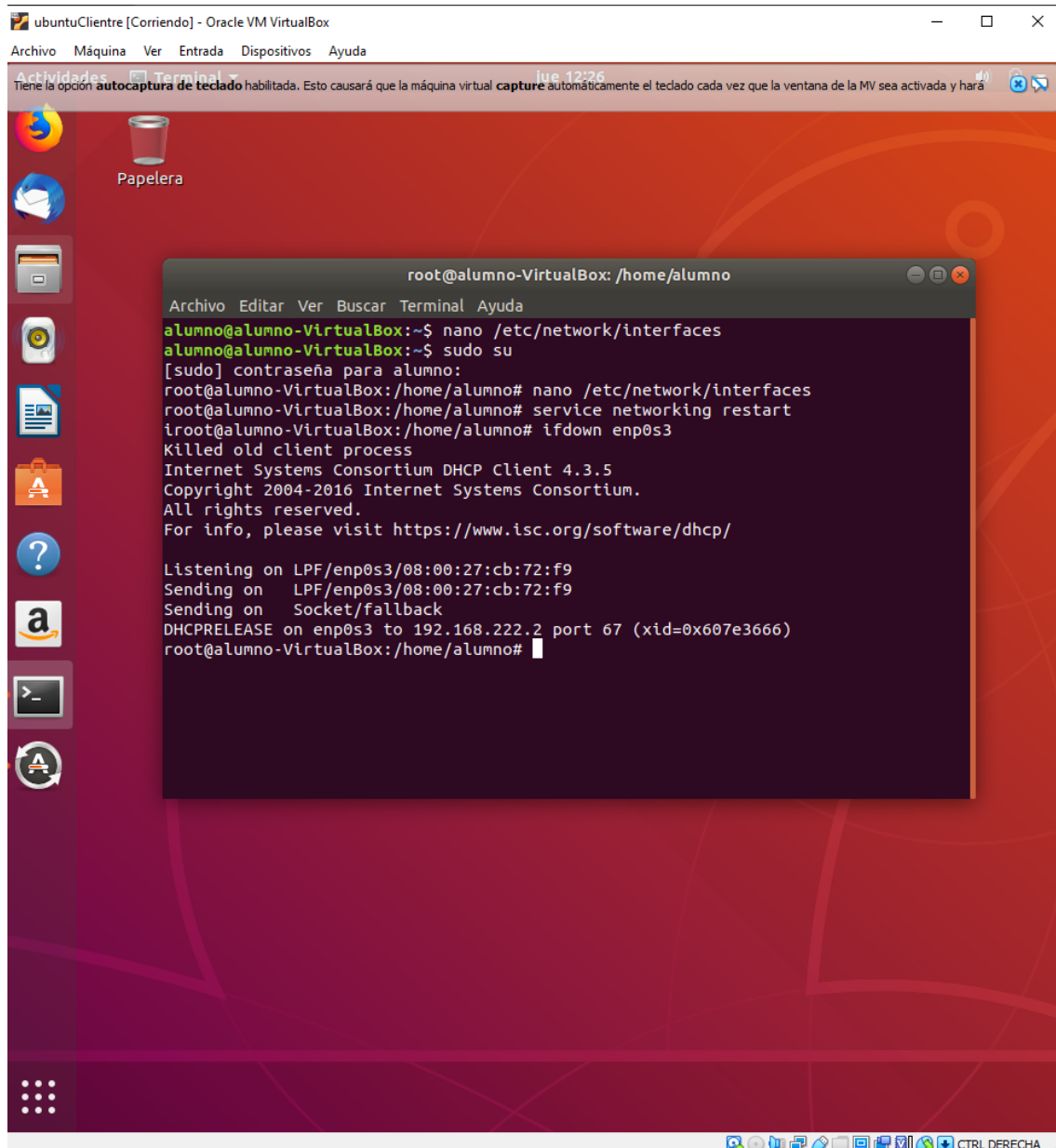
default-lease-time 600;
max-lease-time 7200;
log-facility local7;
# The ddns-updates-style parameter controls whether or not
```

```
# option broadcast-address 192.168.222.1;
# option routers rtr-239-32-1.example.org;
#}

# A slightly different configuration for an internal subnet.
subnet 192.168.222.0 netmask 255.255.255.0 {
    option domain-name-servers 192.168.222.3, 192.168.222.3;
    option subnet-mask 255.255.255.0;
    option routers 192.168.222.1;
    range 192.168.222.20 192.168.222.30
}

# Hosts which require special configuration options can be listed in
# host statements. If no address is specified, the address will be
```

Ahora modificamos el cliente+



```
root@alumno-VirtualBox: /home/alumno
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For info, please visit https://www.isc.org/software/dhcp/

Listening on LPF/enp0s3/08:00:27:cb:72:f9
Sending on LPF/enp0s3/08:00:27:cb:72:f9
Sending on Socket/fallback
DHCPRELEASE on enp0s3 to 192.168.222.2 port 67 (xid=0x607e3666)
root@alumno-VirtualBox:/home/alumno# ifup enp0s3
Internet Systems Consortium DHCP Client 4.3.5
Copyright 2004-2016 Internet Systems Consortium.
All rights reserved.
For info, please visit https://www.isc.org/software/dhcp/

Listening on LPF/enp0s3/08:00:27:cb:72:f9
Sending on LPF/enp0s3/08:00:27:cb:72:f9
Sending on Socket/fallback
DHCPDISCOVER on enp0s3 to 255.255.255.255 port 67 interval 3 (xid=0xf7b10b2a)
DHCPREQUEST of 192.168.222.21 on enp0s3 to 255.255.255.255 port 67 (xid=0x2a0bb1f7)
DHCPOFFER of 192.168.222.21 from 192.168.222.2
DHCPACK of 192.168.222.21 from 192.168.222.2
bound to 192.168.222.21 -- renewal in 229 seconds.
root@alumno-VirtualBox:/home/alumno#
```

```
alumno@alumno-VirtualBox: ~
Archivo Editar Ver Buscar Terminal Ayuda
alumno@alumno-VirtualBox:~$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.222.21 netmask 255.255.255.0 broadcast 192.168.222.255
    inet6 fe80::a00:27ff:feeb:72f9 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:cb:72:f9 txqueuelen 1000 (Ethernet)
    RX packets 5 bytes 899 (899.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 100 bytes 12089 (12.0 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Bucle local)
    RX packets 71 bytes 7886 (7.8 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 71 bytes 7886 (7.8 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

alumno@alumno-VirtualBox:~$
```

Y aquí observamos que hemos entrado dentro del rango establecido por el servidor