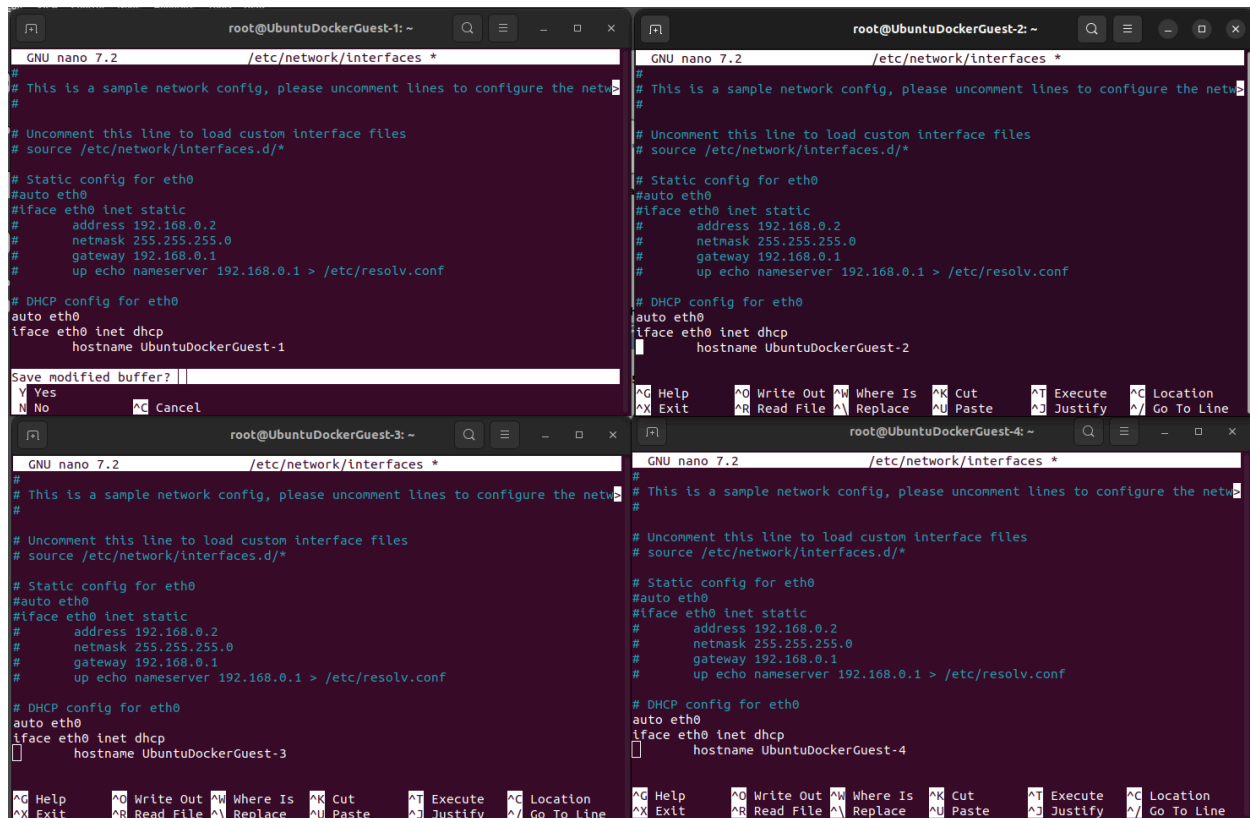
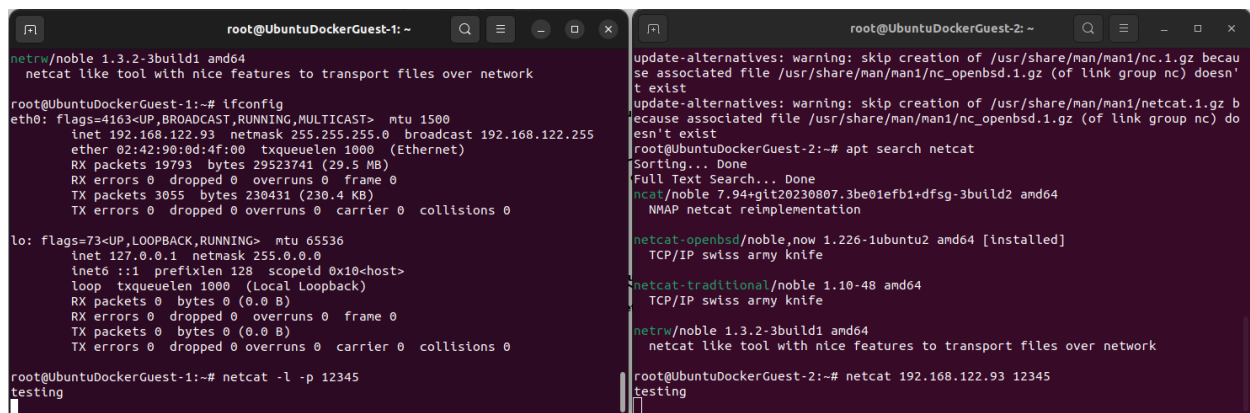


h1, h2, h3, h4 (enabling DHCP)



```
root@UbuntuDockerGuest-1: ~
GNU nano 7.2 /etc/network/interfaces *
# This is a sample network config, please uncomment lines to configure the network
#
# Uncomment this line to load custom interface files
# source /etc/network/interfaces.d/*
# Static config for eth0
#auto eth0
#iface eth0 inet static
#    address 192.168.0.2
#    netmask 255.255.255.0
#    gateway 192.168.0.1
#    up echo nameserver 192.168.0.1 > /etc/resolv.conf
# DHCP config for eth0
auto eth0
iface eth0 inet dhcp
    hostname UbuntuDockerGuest-1
Save modified buffer? [Y]es [N]o
Y
root@UbuntuDockerGuest-2: ~
GNU nano 7.2 /etc/network/interfaces *
# This is a sample network config, please uncomment lines to configure the network
#
# Uncomment this line to load custom interface files
# source /etc/network/interfaces.d/*
# Static config for eth0
#auto eth0
#iface eth0 inet static
#    address 192.168.0.2
#    netmask 255.255.255.0
#    gateway 192.168.0.1
#    up echo nameserver 192.168.0.1 > /etc/resolv.conf
# DHCP config for eth0
auto eth0
iface eth0 inet dhcp
    hostname UbuntuDockerGuest-2
root@UbuntuDockerGuest-3: ~
GNU nano 7.2 /etc/network/interfaces *
# This is a sample network config, please uncomment lines to configure the network
#
# Uncomment this line to load custom interface files
# source /etc/network/interfaces.d/*
# Static config for eth0
#auto eth0
#iface eth0 inet static
#    address 192.168.0.2
#    netmask 255.255.255.0
#    gateway 192.168.0.1
#    up echo nameserver 192.168.0.1 > /etc/resolv.conf
# DHCP config for eth0
auto eth0
iface eth0 inet dhcp
    hostname UbuntuDockerGuest-3
root@UbuntuDockerGuest-4: ~
GNU nano 7.2 /etc/network/interfaces *
# This is a sample network config, please uncomment lines to configure the network
#
# Uncomment this line to load custom interface files
# source /etc/network/interfaces.d/*
# Static config for eth0
#auto eth0
#iface eth0 inet static
#    address 192.168.0.2
#    netmask 255.255.255.0
#    gateway 192.168.0.1
#    up echo nameserver 192.168.0.1 > /etc/resolv.conf
# DHCP config for eth0
auto eth0
iface eth0 inet dhcp
    hostname UbuntuDockerGuest-4
```

Creating a TCP server and setting up Netcat (LinuxHost1 and LinuxHost2 are able to communicate)



```
root@UbuntuDockerGuest-1: ~
netrw/noble 1.3.2-3build1 amd64
netcat like tool with nice features to transport files over network

root@UbuntuDockerGuest-1:~# ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.122.93 netmask 255.255.255.0 broadcast 192.168.122.255
    ether 02:42:90:0d:4f:00 txqueuelen 1000 (Ethernet)
    RX packets 19793 bytes 29523741 (29.5 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 3055 bytes 230431 (230.4 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 (Local Loopback)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

root@UbuntuDockerGuest-1:~# netcat -l -p 12345
testing

root@UbuntuDockerGuest-2: ~
update-alternatives: warning: skip creation of /usr/share/man/man1/nc.1.gz because associated file /usr/share/man/man1/nc_openbsd.1.gz (of link group nc) doesn't exist
update-alternatives: warning: skip creation of /usr/share/man/man1/netcat.1.gz because associated file /usr/share/man/man1/nc_openbsd.1.gz (of link group nc) doesn't exist
root@UbuntuDockerGuest-2:~# apt search netcat
Sorting... Done
Full Text Search... Done
ncat/noble 7.94+git20230807.3be01efb1+dfsg-3build2 amd64
  NMAP netcat reimplementation

netcat-openbsd/noble,now 1.226-1ubuntu2 amd64 [installed]
  TCP/IP swiss army knife

netcat-traditional/noble 1.10-48 amd64
  TCP/IP swiss army knife

netrw/noble 1.3.2-3build1 amd64
  netcat like tool with nice features to transport files over network

root@UbuntuDockerGuest-2:~# netcat 192.168.122.93 12345
testing
```