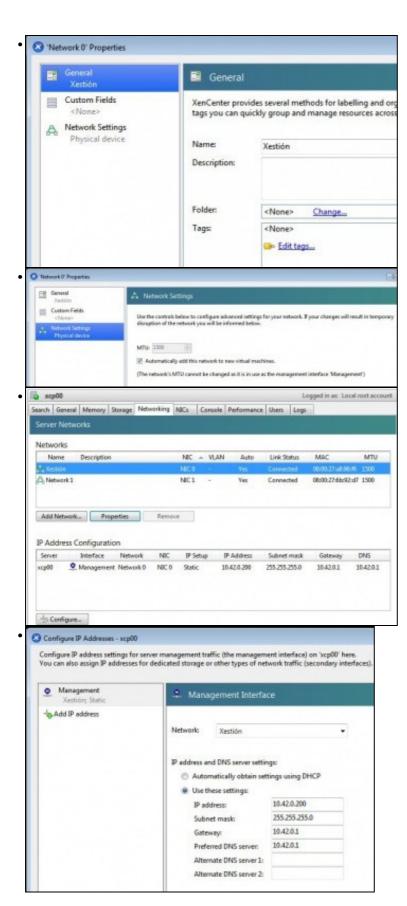
## **XenServer**

## • ??????????????



```
UP BROADCAST RUNNING PROMISC MULTICAST MTU:1500 Metric:1
                  RX packets:1975 errors:0 dropped:0 overruns:0 frame:0
                 TX packets:3028 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:1000
RX bytes:500916 (496.9 KiB) TX bytes:4666676 (4.4 MiB)
                 Link encap:Ethernet HWaddr 08:00:27:6B:92:D7
UP BROADCAST RUNNING PROMISC MULTICAST MTU:1500 Metric:1
   eth1
                 TX packets:5651 errors:0 dropped:0 overruns:0 frame:0
TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:5141720 (4.9 MiB) TX bytes:0 (0.0 b)
                 Link encap:Local Loopback
  lo
                 inet addr:127.0.0.1 Mask:255.0.0.0
UP LOOPBACK RUNNING MTU:16436 Metric:1
                 MX packets:1805 errors:0 dropped:0 overruns:0 frame:0
TX packets:1805 errors:0 dropped:0 overruns:0 carrier:0
                 collisions:0 txqueuelen:0
RX bytes:5624803 (5.3 MiB) TX bytes:5624803 (5.3 MiB)
                 Link encap:Ethernet HWaddr 08:00:27:A8:96:F6
   xenbr0
[root@xcp00 ~1# ifconfig | grep Ethernet
                      Link encap:Ethernet HWaddr 08:00:27:A8:96:F6
Link encap:Ethernet HWaddr 08:00:27:A8:96:F6
Link encap:Ethernet HWaddr 08:00:27:A8:96:F6
Link encap:Ethernet HWaddr 08:00:27:A8:96:F6
   eth0
   eth1
   xenbr0
   xenbr1
  [root@xcp00 ~1#
   [root0xcp00 ~1# ifconfig xenbr0
xenbr0 = Link encap:Ethernet HWaddr 08:00:27:A8:96:F6
                 inet addr:10.42.0.200 Bcast:10.42.0.255 Mask:255.255.255.0
UP BROADCAST RUNNING PROMISC MULTICAST MTU:1500 Metric:1
                 RX packets:1945 errors:0 dropped:0 overruns:0 frame:0
TX packets:2200 errors:0 dropped:0 overruns:0 carrier:0
                 collisions:0 txqueuelen:0

RX bytes:184828 (180.4 KiB) TX bytes:8863826 (8.4 MiB)
   [root9xcp00 ~]#
[root9xcp00 ~]# ifconfig xembr1
                 Link encap:Ethernet HWaddr 08:00:27:68:92:D7
UP BROADCAST RUNNING PROMISC MULTICAST MTU:1500 Metric:1
   kenbr1
                 RX packets:26 errors:0 dropped:0 overruns:0 frame:0
TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
                 collisions:0 txqueuelen:0
RX bytes:4271 (4.1 KiB) TX bytes:0 (0.0 b)
                                                                                    Logged in at: Local root account
   а мер00
   Search General Memory Storage Networking NICs Console Performance Users Logs
     Networks
       Name
                                                NIC + VLAN Auto
                Description
                                                                         Link Status
                                                                                     08:00:27:6b:92:d7 1500
     A Network 1
                                                                          Connected
     Add Network... Properties Remove
     IP Address Configuration
                 Interface Network NEC IP Setup IP Address Subnet mask
               Management Network 0 NEC 0 Static
                                                            10.42.0.200
                                                                        255.255.255.0
                                                                                        10.42.0.1
      Configure.
```





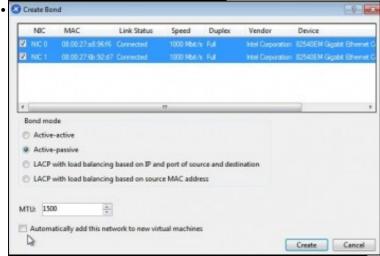
```
[root@xcp00 "]# ifconfig
                Link encap:Ethernet HWaddr 08:00:27:A8:96:F6
                UP BROADCAST RUNNING PROMISC MULTICAST MTU:1500 Metric:1
                 RX packets:1715 errors:0 dropped:0 overruns:0 frame:0
                 TX packets:4785 errors:0 dropped:0 overruns:0 carrier:0
                collisions:0 txqueuelen:1000
                RX bytes:261942 (255.8 KiB) TX bytes:5577812 (5.3 MiB)
  eth1
                Link encap:Ethernet HWaddr 08:00:27:6B:92:D7
UP BROADCAST RUNNING PROMISC MULTICAST MTU:1500 Metric:1
                 HX packets:6405 errors:0 dropped:0 overruns:0 frame:0
                 TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
                 collisions:0 txqueuelen:1000
                 RX bytes:5834888 (5.5 MiB) TX bytes:0 (0.0 b)
                Link encap:Local Loopback
inet addr:127.0.0.1 Mask:255.0.0.0
UP LOOPBACK RUNNING MTU:16436 Metric:1
RX packets:2784 errors:0 dropped:0 overruns:0 frame:0
  lo
                 TX packets:2784 errors:0 dropped:0 overruns:0 carrier:0
                collisions:0 txqueuclen:0
RX bytes:6284222 (5.9 MiB) TX bytes:6284222 (5.9 MiB)
                Link encap:Ethernet HWaddr FE:FF:FF:FF:FF
   vif1.0
· [root@xcp00 ~]# ifconfig vif1.0
  uif1.0
                 Link encap:Ethernet HWaddr FE:FF:FF:FF:FF
                 UP BROADCAST RUNNING MOARP PROMISC MTU:1500 Metric:1
                 RX packets:16 errors:0 dropped:0 overruns:0 frame:0
                  TX packets:99 errors:0 dropped:0 overruns:0 carrier:0
                 collisions:0 txqueuelen:32
RX bytes:1372 (1.3 KiB) TX bytes:8169 (7.9 KiB)
  bond-slawe-of ( RO): (not in database)
tunnel-access-PIF-of ( RO):
tunnel-transport-PIF-of ( RO):
      IP-configuration-mode ( MO): Static
IP ( MO): 10.42.0.200
netmask ( MO): 255.255.255.0
gateway ( MO): 10.42.0.1
IPu6-configuration-mode ( MO): None
IPu6 ( MO):
IPu6-gateway ( MO):
primary-address-type ( MO): IPu4
MNS ( MO): 10.42.0.1
io_read_Mns ( MO): 0.254
io_read_Mns ( MO): 0.254
                io_read_kbs ( RD): 0.254
io_write_kbs ( RD): 0.159
    carrier ( RD): true
    vendor-id ( RD): 8086

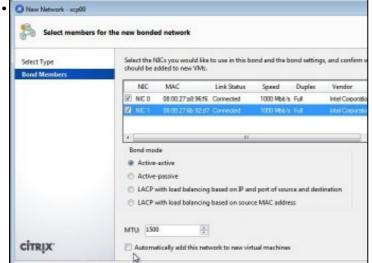
vendor-name ( RD): Intel Corporation
    device-id ( RD): 100e
    device-name ( RD): 82540EM Gigabit Ethernet Controller
    speed ( RD): 1000 Mbit/s
    duplex ( RD): full

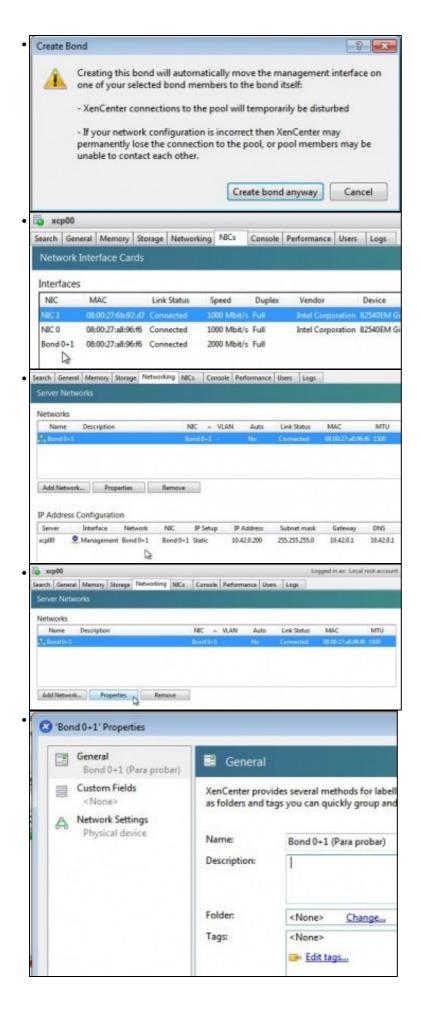
disallow-unplug ( RM): false
    pci-bus-path ( RD): 6060:60:63.6

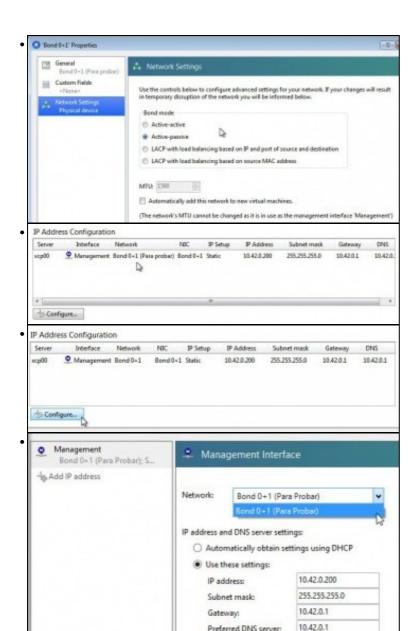
other-config (MRM):
   Search General Memory Storage Networking NICs Console Performance Users Logs
                                                MIC - VLAN Auto Link Status MAC
      Name Description
                                                                                  08:00:27:u6:96:/6 1500
     A Xestion
                                                NEC 0
                                                               Yes
                                                                      Connected
    Add Network Properties Remove
```







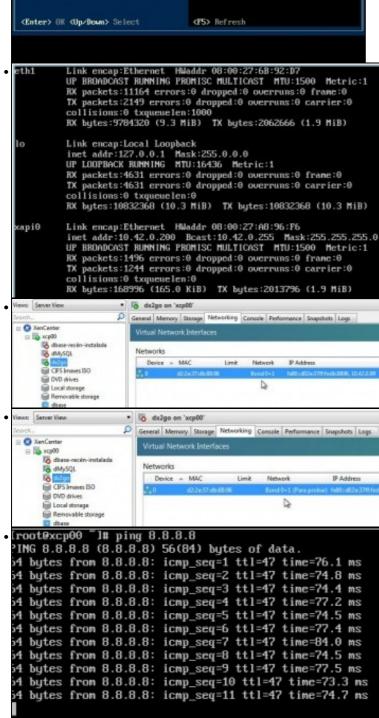


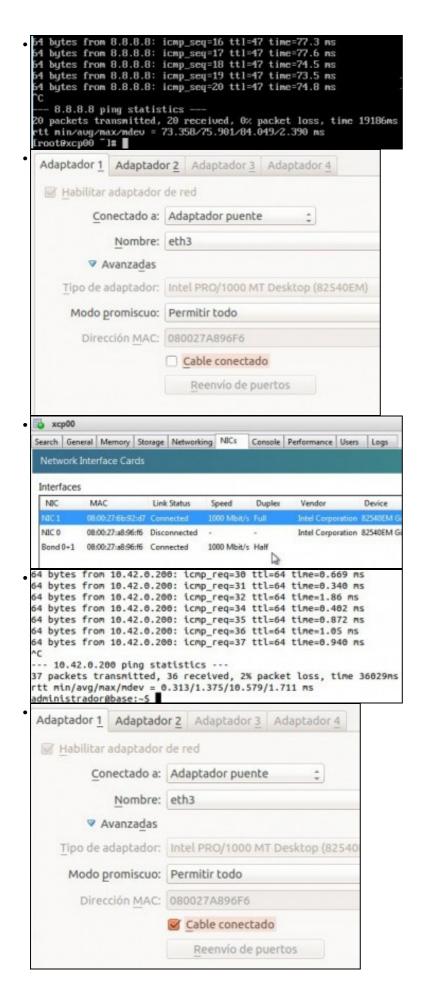




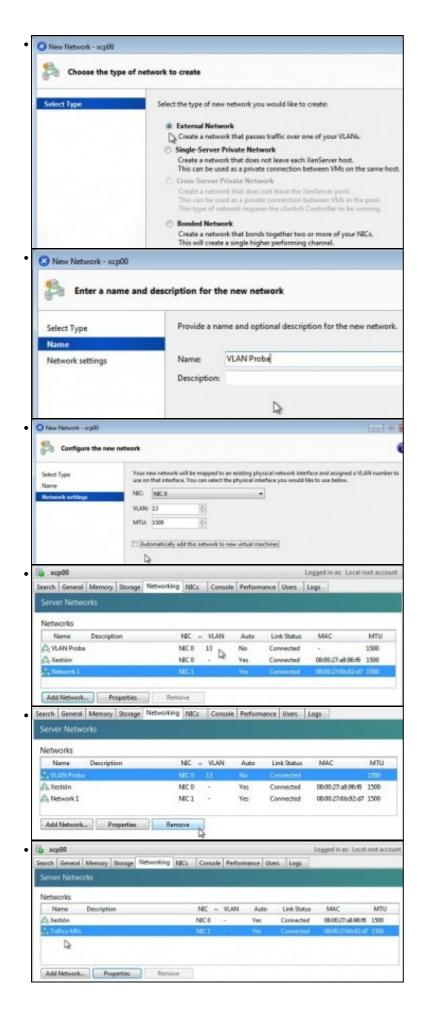
Alternate DNS server 1: Alternate DNS server 2:

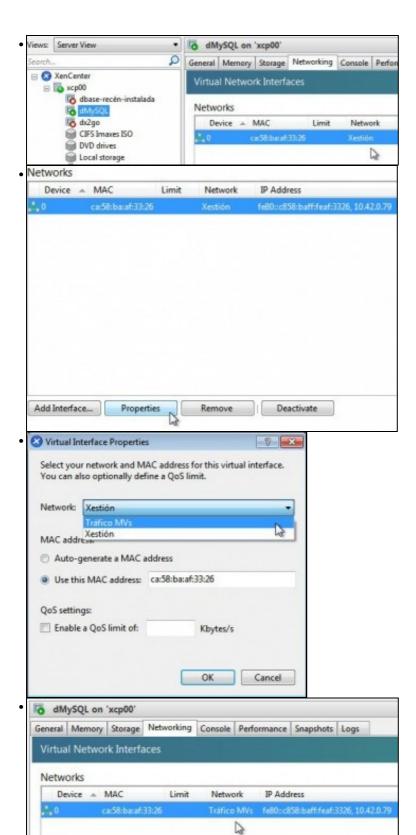


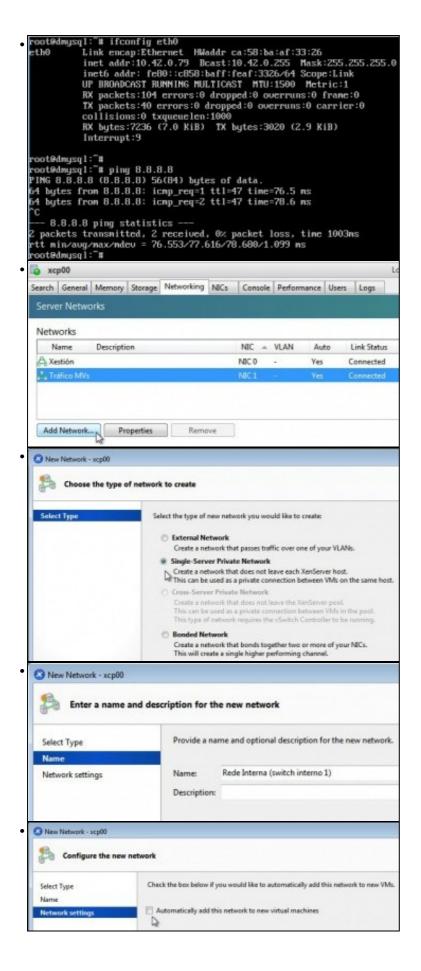


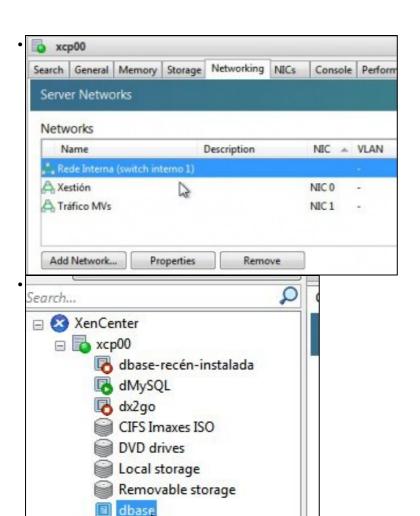


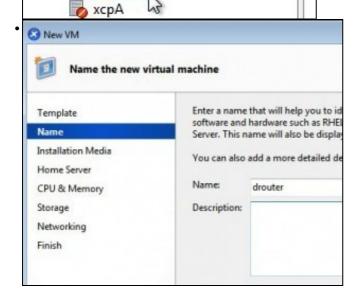


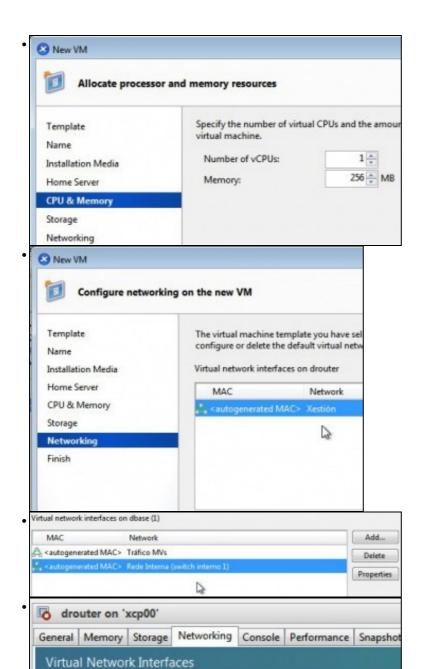












Limit

Network

Tráfico MVs

B

Networks

80

Device A

MAC

9e:84:d0:bc:55:e0

```
dx2go on 'xcp00'
 General Memory Storage Networking Console Performance Snapsho
   Virtual Network Interfaces
   Networks
       Device A MAC
                                      Limit
                                                  Network
                   d2:2e:37:db:88:96
 GNU nano 2.2.4
                            File: /etc/network/interfaces
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).
The loopback network interface
iface lo inet loopback
# The primary network interface
allow-hotplug eth@
iface eth0 inet dhcp
allow-hotplug eth1
iface eth1 inet static
        address 192.168.13.1
netmask 255.255.255.0
root@drouter:"# ifup eth1
 root@drouter:"#
 coot@drouter: "# ifconfig
eth0
          UP BROADCAST BUNNING MULTICAST MTU:1500 Metric:1
BX packets:206 errors:0 dropped:0 overruns:0 frame:0
TX packets:70 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
          BX bytes:13364 (13.0 KiB) TX bytes:4960 (4.8 KiB)
          Interrupt:7
          eth1
          TX packets:0 errors:0 dropped:0 overruns:0 frame:0
TX packets:12 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
          RX bytes:0 (0.0 B) TX bytes:908 (900.0 B)
Interrupt:9
          Link encap:Local Loopback
root@drouter: # route -m
Kernel IP routing table
Destination Gateway
192.168.13.0 0.0.0.0
                                                Flags Metric Ref
                                Gennask
                                                                    Use Iface
                                255.255.255.0
                                                                      0 eth1
10.42.0.0
                                255.255.255.0
0.0.0.0
                                                U
                                                                      0 eth0
                0.0.0.0
                                                             0
                10.42.0.1
 oot@drouter:"#
                                    File: /etc/network/interfaces
   GNU nano 2.2.4
# This file describes the network interfaces available
# and how to activate them. For more information, see :
# The loopback network interface
auto lo
iface lo inet loopback
# The primary network interface
allow-hotplug eth0
#NetworkManager
#iface eth0 inet dhcp
iface eth0 inet static
           address 192.168.13.2
netmask 255.255.255.0
            gateway 192.168.13.1
```

```
root@dxZgo:"# ifup eth0
 root@dx2go:"#
 or monaches mannine nullicast HTU:1500 Hetric:1
RX packets:1 errors:0 dropped:0 overruns:0 frame:0
TX packets:47 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:28 (28.0 B) TX bytes:8497 (8.2 KiB)
                   Interrupt:8
                   Link encap:Local Loopback
inet addr:127.0.0.1 Mask:255.0.0.0
inet6 addr:::1Z128 Scope:Host
UP LOOPBACK RUNNING MTU:16436 Metric:1
RK packets:8 errors:0 dropped:0 overruns:0 frame:0
TX packets:8 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
10
                   RX bytes:560 (560.0 B) TX bytes:560 (560.0 B)
root0dxZgo:"# route -n
Kernel IP routing table
Destination Gateway
192.168.13.0 0.0.0.0
                                                                                      Flags Metric Ref
                                                                                                                          Use Iface
0 eth0
0 eth0
                                                         255.255.255.0
0.0.0.0
                                                                                     U
UG
                                                                                                0
0.0.0.0
                             192.168.13.1
   oot@dxZgo:"#
                                                                                                            Logged in as: Local root acces
  dx2go on 'xcp00'
  General Memory Storage Networking Console Performance Snapshots Logs
   Networks
       Device + MAC
                                                                                                                      D
 root9dx2go:"# route -n
Kermel IP routing table
Destination Gateway
192.168.13.0 0.0.0.0
                                                                                                                          Use Iface
0 cth0
                                                         Germask
255.255.255.0
                                                                                      Flags Metric Ref
                                                                                                Θ
 0.0.0.0 152.168.13.1 0.0.0.0 06 0 root9dx2go:"# root9dx2go:"# ping 192.168.13.1
PING 192.168.13.1 (192.168.13.1) 56(84) bytes of data.
64 bytes from 192.168.13.1: icmp_req=1 ttl=64 time=6.78 ms
64 bytes from 192.168.13.1: icmp_req=2 ttl=64 time=8.25 ms
 --- 8.8.8.8 ping statistics ---
2 packets transmitted, 0 received, 100% packet loss, time 1002ms
  root@dxZgo:"#
 root@drouter:"# nano /etc/init.d/iptables.sh
 GNU nano Z.Z.4
                                            File: /etc/init.d/iptables.sh
 t/bin/sh
 #Mabilitar enrutamento
1 > /proc/sys/met/ipu4/ip_forward
 #Borrar regras previas
iptables -F
iptables -t nat -F
iptables -2
  iptables -t nat -Z
  Mabilitamos MAT (Sen ter en conta orixes e eth de saida)
 iptables -t mat -A POSTROUTING -j MaSQUERADE
#Penitir toda comunicacion dende rede interna ao exterior
iptables -A FORMARD -≤ 192.168.13.0/24 -i eth1 -j ACCEPT
MRedirecionar porto 2222 a do2go porto 22
iptables -t nat -A PREBOUTING -i eth0 -p tcp --dport 2222 -j IMAT --to 192.168.$
MPermitir conexions entrantes para trafico previamente establecido
iptables -A FURMARD -m state --state ESTABLISHED.RELATED -j ACCEPT
```

```
root@drouter:"# chmod +x /etc/init.d/iptables.sh
root@drouter:"#
  root@drouter:"# update-rc.d iptables.sh defaults
  pdate-rc.d: using dependency based boot sequencing 
insserv: warning: script 'iptables.sh' missing LSB tags and overrides
root@dx2go: # ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
   -- 8.8.8.8 ping statistics --
 Z packets transmitted, 0 received, 100% packet loss, time 1002ms
root@dx2go:~# ping 8.8.8.8
root@axzgo: # ping 8.8.8.8

PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.

64 bytes from 8.8.8.8: icmp_req=1 ttl=46 time=113 ms

64 bytes from 8.8.8.8: icmp_req=2 ttl=46 time=81.6 ms

64 bytes from 8.8.8.8: icmp_req=3 ttl=46 time=97.9 ms

64 bytes from 8.8.8.8: icmp_req=4 ttl=46 time=86.1 ms
       8.8.8.8 ping statistics
4 packets transmitted, 4 received, 0% packet loss, time 3014ms
rtt min/aug/max/mdev = 81.684/94.786/113.319/12.245 ms
 root@dxZgo:"#
            administrador@base:
 administrador@base:~$ ssh root@10.42.0.66 -p 2222
The authenticity of host '[10.42.0.66]:2222 ([10.42.0.66]:2222)' can't be establ
 RSA key fingerprint is 09:82:db:12:b0:9e:98:bb:ed:e5:d3:3c:c7:a7:35:5e.
 Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '[10.42.0.66]:2222' (RSA) to the list of known hosts.
 root@10.42.0.66's password:
Linux dx2go 2.6.32-5-amd64 #1 SMP Mon Feb 25 00:26:11 UTC 2013 x86_64
 The programs included with the Debian GNU/Linux system are free software;
  the exact distribution terms for each program are described in the
 individual files in /usr/share/doc/*/copyright.
 Debian GNU/Linux comes with ABSOLUTELY NO MARRANTY, to the extent
 permitted by applicable law.
Last login: Sat May 25 22:10:32 2013
  root@dx2go:~#
 root@drouter:"# ifconfig
eth0 Link encap:Eth
                 Link encap:Ethernet HWaddr 9e:84:d0:bc:55:e0
inet addr:10:42.0.66 Boast:10:42.0.255 Mask:255.255.255.0
inet6 addr: fe80::9c84:d0ff:febc:55e0/64 Scope:Link
UP BROADCAST RUNNING HULTICAST HTU:1500 Metric:1
                 RX packets:2455 errors:0 dropped:0 overruns:0 frame:0
TX packets:610 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:167962 (164.0 KiB) TX bytes:43202 (42.1 KiB)
                  Interrupt:8
                 Link encap:Ethernet HWaddr b6:e0:60:8c:46:78
inet addr:192.168.13.1 Bcast:192.168.13.255 Mask:255.255.255.0
inet6 addr: feB0::b4e0:60ff:feBc:4678/64 Scope:Link
  eth1
                 UP BROADCAST RUNNING MULTICAST MIU:1500 Metric:1

EX packets:49 errors:0 dropped:0 overruns:0 frame:0

TX packets:54 errors:0 dropped:0 overruns:0 carrier:0

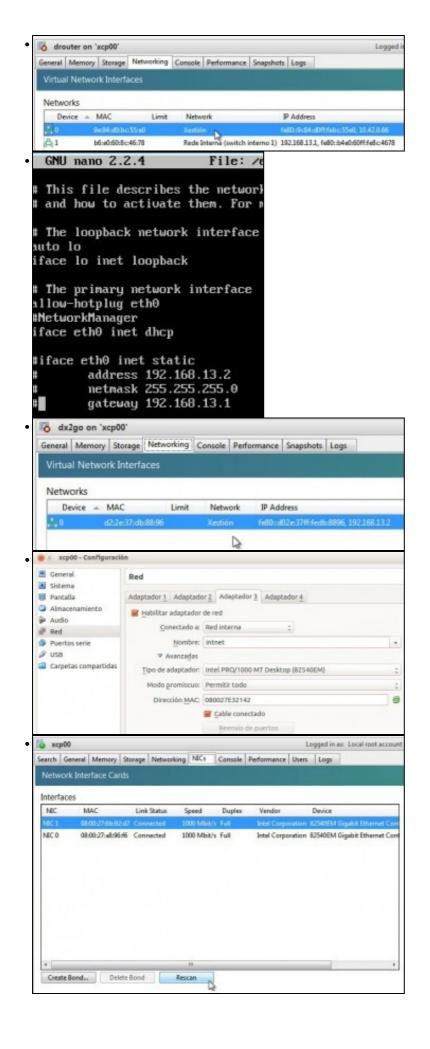
collizions:0 txqueuelen:1000

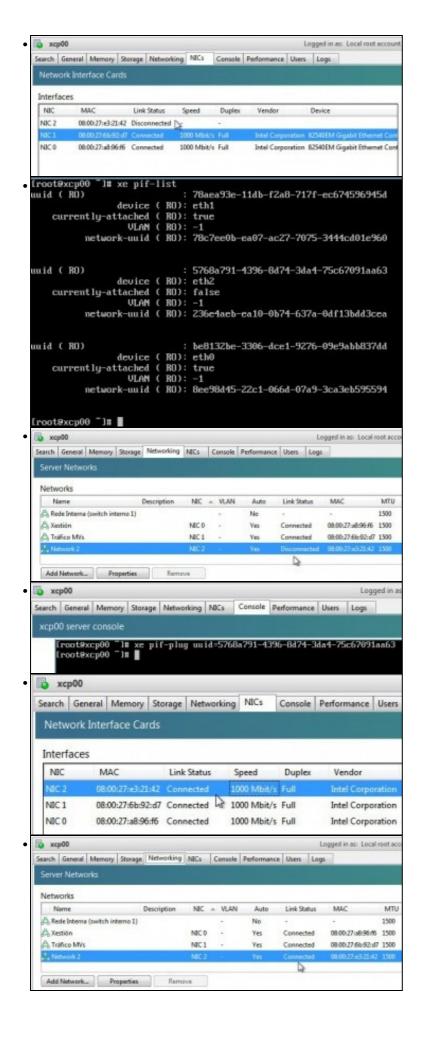
EX bytes:5741 (5.6 KiB) TX bytes:6894 (6.7 KiB)
                  Interrupt:9
  Session preferences - Servidor Debian Gráfico
    Session Connection Settings Shared folders
    Session name: Servidor Debian Gráfico
                       << change icon
     Server
                10.42.0.66
                administrador
     SSH port: 2222
     Use RSA/DSA key for ssh connection:
        Try auto login (ssh-agent or default ssh key)
        Use Proxy server for SSH connection
     Session type
                                                    * Command:
```

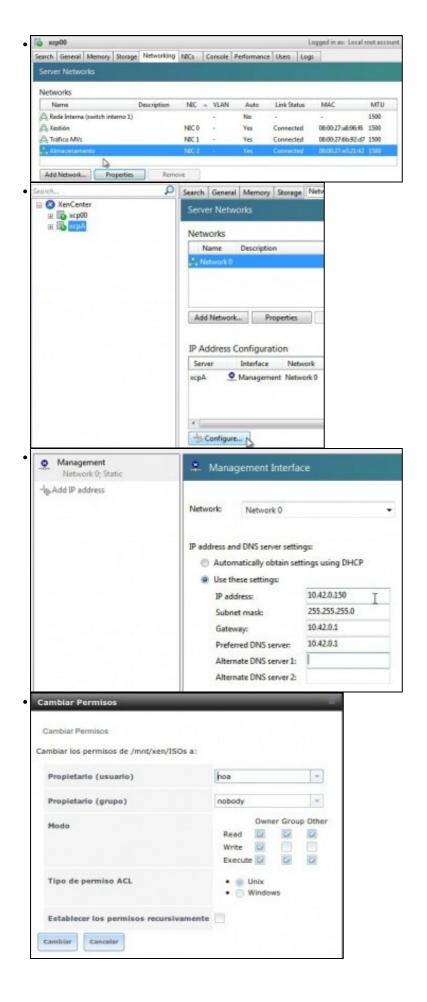
GNOME

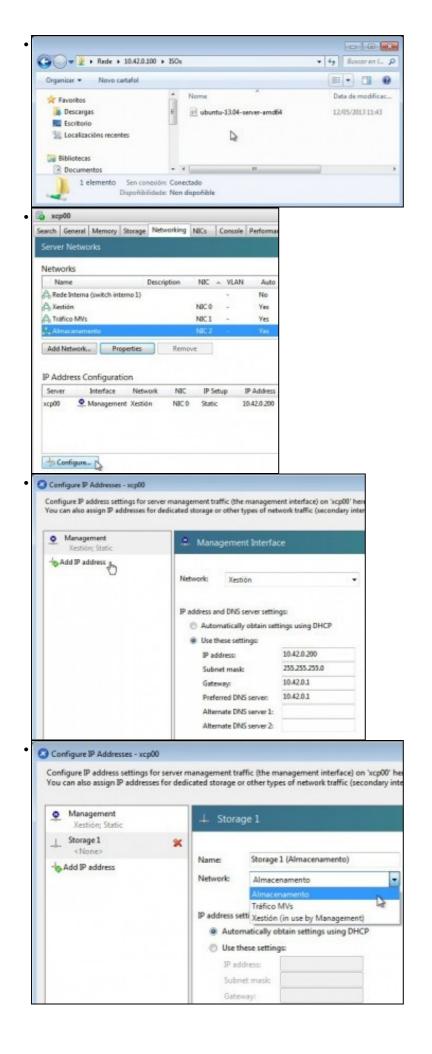
```
    Servidor Debian GrA;fico

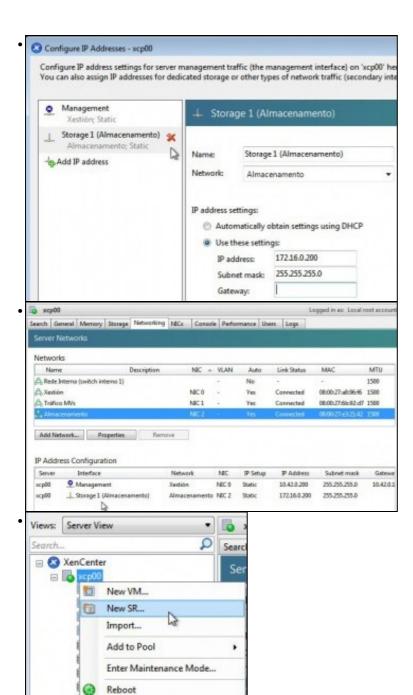
         Applications Places System
                   File Edit View Jerminal Help
                    administrador@dx2go:-$ traceroute 10.42.0.1
                    traceroute to 10.42.0.1 (10.42.0.1), 30 hops max, 60 byte packets
                     1 192.168.13.1 (192.168.13.1) 5.603 ms 5.573 ms 5.389 ms 2 10.42.0.1 (10.42.0.1) 12.081 ms 11.599 ms 11.449 ms
                    administrador@dx2go:~$
 [root@xcp00 "]# xe network-list
                            90) : 6b2501b2-1b36-c947-3dbb-4aac7b598620
name-label ( BW): Rede Interna (switch interno 1)
      muid ( RO)
                name-description ( RW):
bridge ( RO): xapi0
               d ( RO) : 78c7ee0b-ea07-ac27-7075-3444cd01e960
name-label ( RM): Tráfico MVs
name-description ( RM):
bridge ( RO): xembr1
      muid ( RO)
       muid ( BO) : 762b319c-c2dd-3eb5-dc2c-c16a2777a4fd
name-label ( BW): Most internal management metwork
name-description ( BW): Most internal management metwork
name-label ( BW): Most internal metwork
name-label ( BW): Most internal metwork
name-
                                                                              : 8ee98d45-22c1-066d-07a9-3ca3eb595594
      muid ( BO)
                                 name-label ( RW): Xestión
               name-description ( RW):
bridge ( RO): xembrθ
       d23-6c5c-3deb-76oZblaZ2e91
PIF-unids (SEO):
MTU ( RU): 1500
bridge ( RO): xapi3
other-config (MEU): automatic: false
blobs ( RO):
               tags (SRM):
default-locking-mode ( RM): unlocked
       [root9xcp00 "]# xe network-list
umid ( RO) : 78c7ee0b-ea07-ac27-7075-3444cd01e960
name-label ( RW): Pool-wide network associated with eth1
name-description ( RW):
bridge ( RO): xenbr1
        uuid ( BD) : 762b319c-c2dd-3eb5-dc2c-c16a2777a4fd
nane-label ( BW): Host internal management network
nane-description ( BW): Hetwork on which guests will be assigned a private ink-local IP address which can be used to talk XenAPI
bridge ( BD): xenapi
                d ( BD) : Bee98445-22c1-866d-87a9-3ca3eb595594
name-label ( BW): Xestión
name-description ( BW):
bridge ( BD): xenbr0
        mid (RO)
General Memory Storage Networking Console Performance Snapshots Logs
          Networks
                                    b6:e0:60:8::46:78
                                                                                   Rede Interna (switch interno 1) 192,168,133, fe80::ble0:60ffrfe8c:4678
                                                                                                                                                                                                                            Yes
       dx2go on 'xcp00'
         General Memory Storage Networking Console Performance Snapshots Logs
                                                               Limit Network
                                                                                                                                        IP Address
```











Shut Down
Disconnect
Reconnect As...

Properties

