

network interface dummy 0.

echo dummy >> /etc/modules

Append the following part to /etc/network /interfaces:

```
auto dummy0
iface dummy0 inet static
address 192.168.3.1
netmask 255.255.255.0
```

This will give dummy 0 the IP address 192.168.3.1.

Then we have to tell Xen that it should bind the Xen bridge xen-br0 to dummy0. Therefore you have to edit /etc/xen/scripts/network. Change the line

```
netdev=${netdev:-eth0}
```

to

```
netdev=${netdev:-dummy0}
```

Of course, we have to change the network settings in /etc/xen/vm01-config.sxp and /etc/xen/vm02-config.sxp. vm01 will have the IP address 192.168.3.2, so its configuration file looks like this:

```
name ="vm01"
kernel ="/boot/vmlinuz-2.6.11.12-xenU"

root ="/dev/hda1"
memory =128
disk = ['file:/vserver/images/vm01.im
g,hda1,w','file:/vserver/images/vm01-
swap.img,hda2,w']

# network
nics=1
dhcp ="off"
ip="192.168.3.2"
netmask="255.255.255.0"
gateway="192.168.3.1"
hostname="vm01.example.com"
extra="3"
```

Now we have to tell $dom\theta$ that it should do NAT so that the virtual machines have internet access. We also have to tell $dom\theta$ which ports it should forward to

which IP address. Therefore we create the file
/etc/network/if-up.d/iptables:

```
#!/bin/sh
echo "1" > /proc/sys/net/ipv4/ip_forw
ard
iptables -t nat -A POSTROUTING -s 192
.168.0.0/16 -j MASQUERADE

### Port Forwarding ###
iptables -A PREROUTING -t nat -p tcp
-i eth0 --dport 80 -j DNAT --to 192.1
68.3.2:80
iptables -A PREROUTING -t nat -p tcp
-i eth0 --dport 25 -j DNAT --to 192.1
68.3.3:25
iptables -A PREROUTING -t nat -p tcp
-i eth0 --dport 110 -j DNAT --to 192.1
68.3.3:21
```

The first two commands enable Nat'ing on dom0. In the section after ### Port Forwarding ### you put as many rules as you need. This tells dom0 to forward certain ports to certain destination ports on certain destination IP addresses. For example, the first rule tells dom0 to forward requests on port 80 (http) to port 80 on 192.168.3.2. So if you have a web server running on vm01 (192.168.3.2), then all requests on port 80 on dom0 will be forwarded to this web server. The last two rules forward ports 25 (smtp) and 110 (pop3) to our mail server vm02 (192.168.3.3).

Now we have to make that script executable:

chmod 755 /etc/network/if-up.d/iptables

Finally, we reboot the server:

shutdown -r now

After the reboot, you should have a virtual local network on your Xen system!

Whenever you need new port forwarding rules, put them at the end of /etc/network/if-up.d /iptables. And because you do not want to reboot your system whenever you need new port forwarding rules, you can run the same rule on the shell. For example, if you want to forward port 21 (ftp) to vm01, you put the rule

iptables -A PREROUTING -t nat -p tcp -i eth0

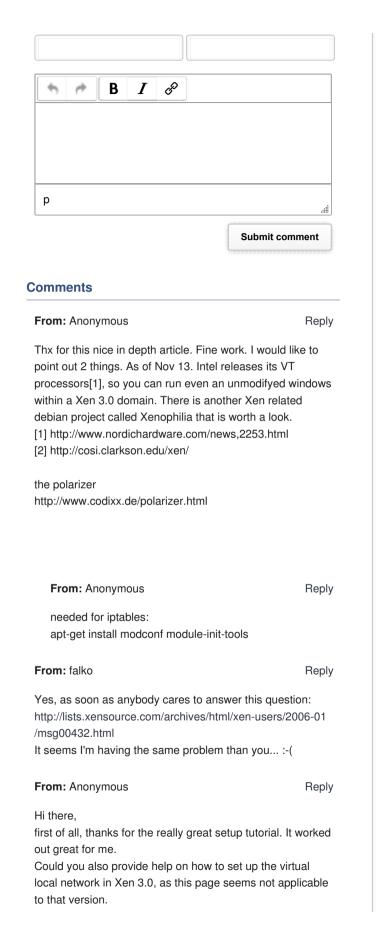
```
--dport 21 -j DNAT --to 192.168.3.2:21
  at the end of /etc/network/if-up.d/iptables.
  Plus, you run this rule on the shell so that it becomes
  valid immediately:
  iptables -A PREROUTING -t nat -p tcp -i eth0
  --dport 21 -j DNAT --to 192.168.3.2:21
  Links
  Xen: http://www.cl.cam.ac.uk/Research
  /SRG/netos/xen/
  Debian: <a href="http://www.debian.org/">http://www.debian.org/</a>
  Ubuntu: <a href="http://www.ubuntu.com/">http://www.ubuntu.com/</a>
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Sub pages
The Perfect Xen Setup For Debian And Ubuntu - Page 6 - Page 1
The Perfect Xen Setup For Debian And Ubuntu - Page 6 - Page 2
The Perfect Xen Setup For Debian And Ubuntu - Page 6 - Page 3
```

The Perfect Xen Setup For Debian And Ubuntu - Page 6 - Page 4 The Perfect Xen Setup For Debian And Ubuntu - Page 6 - Page 5 The Perfect Xen Setup For Debian And Ubuntu - Page 6

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