

Virtual Windows Server 2003 on Debian Etch with VirtualBox



Just a simple target: install Windows Server 2003 on a secure host such as Debian Etch.

Let's start.

Installation

After a Debian *basic system* installation add the *xorg* package to be able to launch *X* and *xterm*.

As you can see in the [official VirtualBox download page](#) exists a Debian etch repository that you can add to your */etc/apt/sources.list*. The

packages to be installed are: *virtualbox libqt3-mt libxalan110 libxerces27*.

After the installation add the user you want to use to launch the virtual machine to the *vboxusers* group (I'm going to use *winsrvr2003*).

Virtual machine creation and configuration

Now login with the user just added to the *vboxusers* group and launch *startx*; from *xterm* launch *VirtualBox* and create the virtual machine from the GUI. You can refer to thousands internet resources for this steps.

Network configuration

The procedure consists in creating the virtual interface **vbox0** and the bridge between **vbox0** and the physical interface **eth0**. To better manage the requests I've created an alias interface **eth0:1** and the requests for it's ip will be redirected to **vbox0**.

Let's start creating the **vbox0** interface (which configuration will be automatically saved into */etc/vbox/interfaces*) with the command:

```
VBoxAddIF vbox0 winsrvr2003 br0
```

winsrvr2003 is the virtualbox user.

In the file */etc/network/interfaces* are set the primary and the alias ip:

```
# Physical interface
auto eth0
iface eth0 inet static
    address 192.168.2.60
    netmask 255.255.255.0
    gateway 192.168.2.254
    dns-nameservers 208.67.222.222 208.67.220.220

# Alias interface
auto eth0:1
iface eth0:1 inet static
    address 192.168.2.61
    netmask 255.255.255.0
```

After installing **bridge-utils**, let's create the bridge **br0** between **eth0:1** and **vbox0**, I use the */etc/init.d/bridge* script symbolically linked from */etc/rc.2/S20bridge*.

ATTENTION: the script must start **BEFORE** the creation of **vbox0** or **br0** can't be found, that is before **S20vboxdrv** e **S20vboxnet**.

Hereinafter */etc/init.d/bridge*:

```
#!/bin/bash
brctl addbr br0
```

```
ifconfig br0 10.1.1.1 netmask 255.255.255.0 up

# FTP PASV mode
/sbin/modprobe ip_conntrack_ftp
/sbin/modprobe ip_nat_ftp

echo 1 > /proc/sys/net/ipv4/ip_forward

# Requests for eth0:1 are redirected to the virtual machine
iptables -t nat -A PREROUTING -p tcp -d 192.168.2.61 -j DNAT --to 10.1.1.2

# Singol port redirecting
# HTTP
#iptables -t nat -A PREROUTING -p tcp -d 192.168.2.61 --dport 80 -j DNAT --to 10.1.1.2:80
# HTTPS
#iptables -t nat -A PREROUTING -p tcp -d 192.168.2.61 --dport 443 -j DNAT --to 10.1.1.2:443
# Desktop Remoto
#iptables -t nat -A PREROUTING -p tcp -d 192.168.2.61 --dport 3389 -j DNAT --to
10.1.1.2:3389

# Masquerading to let vbox surf the net
iptables -t nat -A POSTROUTING -o eth0 -s 10.0.0.2 -j MASQUERADE
```

Automatic start at boot

The momentary solution consists in the automatic login of the *winserver2003* user from **gdm** and the following line added to the **.bashrc** file:

```
VBoxSDL -fullscreen -vm WinServer2003
```

to be continued...