

extra="3"

In memory you specify the RAM you want to allocate to that virtual machine (here: 128~MB). In disk you specify which images to use and how to mount them (i.e., under which partition, e.g. hda1). This **must** correspond to the settings in the image's /etc/fstab file! In the network settings we tell vm01 that its IP address is 192.168.0.101 (the main machine's (dom0) IP address is 192.168.0.100), and what hostname it has.

If you want  $\emph{vm01}$  to start automatically at the next boot of the system, then do this:

ln -s /etc/xen/vm01-config.sxp /etc/xen/auto

Now let's start vm01:

xm create -c /etc/xen/vm01-config.sxp

If nothing's wrong, <code>vm01</code> should come up without problems, and you should be able to login. If you installed Xen from the sources, by running <code>iptables-L</code> you should see that <code>iptables</code> is available on <code>vm01</code>. To leave <code>vm01</code>'s shell, type <code>CTRL+]</code> if you are at the console, or <code>CTRL+5</code> if you're using PuTTY. From the outside you should be able to connect to <code>192.168.0.101</code> via <code>SSH</code>.

Back on  $dom\theta$ 's shell, you can shutdown  $vm\theta1$  by running

xm shutdown vm01

Here are some other Xen commands:

 ${\it xm}$  create -c /path/to/config - Start a virtual machine.

xm shutdown <name> - Stop a virtual machine.
xm list - List all running systems.
xm console <name> - Login on a virtual machine.
xm help - List of all commands.

Now you can reboot the main system to see if vm01 comes up automatically (if you created the symlink in /etc/xen/auto):

shutdown -r now

## 4.3 Creating And Customizing Further Virtual Machines

You can create further virtual machines simply by copying the image template:

```
cp -pf /vserver/images/vm_base.img /vserver
/images/vm02.img
cp -pf /vserver/images/vm_base-swap.img
/vserver/images/vm02-swap.img
```

Then you have to create a Xen configuration file, e.g. /etc/xen/vm02-config.sxp:

```
name ="vm02"
kernel ="/boot/vmlinuz-2.6.11.12-xenU"
root ="/dev/hda1"
memory =64
disk = ['file:/vserver/images/vm02.im
g,hda1,w','file:/vserver/images/vm02-
swap.img,hda2,w']
# network
nics=1
dhcp ="off"
ip="192.168.0.102"
netmask="255.255.255.0"
gateway="192.168.0.1"
hostname="vm02.example.com"
extra="3"
```

## Start the machine:

```
xm create -c /etc/xen/vm02-config.sxp
```

and create a symlink, if you want to start the virtual machine at boot time:

```
ln -s /etc/xen/vm02-config.sxp /etc/xen/auto
```

Now you can log into each machine, e.g. via SSH, and configure it as if it was a normal system.

You can create as many virtual machines as you like. Your hardware's the limit!

<< Prev

Next >>



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