

Table des matières

Xen install 3
Xen configuration 3
VMs setup 3
 VM configuration file 3
 Starting the VM 4
Firewall 4



Before installing the dedicated server, please follow this layout as we'll use the left free space for LVM (once the machine is installed) :

Mountpoint	Size	FS type	Partition type
/boot	256M	ext4	Primary
/	2048M	ext4	Primary
swap	1024	swap	Primary
n/a	all free space	n/a	Extended
/usr	4096	swap	Logical
/var	4096	swap	Logical

Xen install

- Retrieve Xen version and install package

```
apt-cache search xen-hypervisor
apt-get install xen-hypervisor-4.x-amd64
```

- Check if Xen has been integrated to grub

```
grep Xen /boot/grub/grub.cfg
```

- Specify dedicated CPUs and memory for dom0 in **/etc/default/grub** :

I prefer not to restrict memory for dom0, let's allocate only one CPU :

```
GRUB_CMDLINE_LINUX="apparmor=0"
GRUB_CMDLINE_XEN="dom0_max_vcpus=1 dom0_vcpus_pin"
```

- Launch **update-grub**
- Reboot
- Check if Xen kernel has been loaded on boot

```
xm list
```

Xen configuration

- Comment and uncomment those lines in **/etc/xen/xend-config.sxp**

```
 #(vif-script vif-bridge)
 #(vif-script vif-route)
 (network-script network-nat)
 (vif-script vif-nat)
```

- Launch **/etc/init.d/xen restart**

VMs setup

- Create a 32 bits virtual machine

```
xen-create-image --lvm=datavg --size=4G --memory=256M --swap=256M --dist=wheezy --mirror=http://ftp.fr.debian.org/debian --force --ip=192.168.1.1 --netmask=255.255.255.0 --gateway=192.168.1.254 --hostname=wheezy32bits --
kernel=/boot/vmlinuz-3.2.0-4-686-pae --initrd=/boot/initrd.img-3.2.0-4-686-pae --arch=i386 --fs=ext4
```



kernel and initrd files can be retrieved here :

- kernel : [vmlinuz-3.2.0-4-686-pae](#)
- initrd : [initrd.img-3.2.0-4-686-pae](#)

VM configuration file

```
/etc/xen/wheezy32bits.cfg
```

Where there is a shell, there is a way - <https://unix.ndlp.info/>

```
#
# Configuration file for the Xen instance wheezy32bits, created
# by xen-tools 4.3.1 on Sun Feb  9 16:25:13 2014.
#
#
# Kernel + memory size
#
kernel      = '/boot/vmlinuz-3.2.0-4-686-pae'
ramdisk     = '/boot/initrd.img-3.2.0-4-686-pae'

vcpus       = '1'
cpus        = '1,2,3'
memory      = '256M'

#
# Disk device(s).
#
root        = '/dev/xvda2 ro'
disk        = [
    'phy:/dev/datavg/wheezy32bits-disk,xvda2,w',
    'phy:/dev/datavg/wheezy32bits-swap,xvda1,w',
]

#
# Physical volumes
#

#
# Hostname
#
name        = 'wheezy32bits'

#
# Networking
#
vif         = [ 'ip=192.168.1.1 ,vifname=vif1.1' ]

#
# Behaviour
#
on_poweroff = 'destroy'
on_reboot   = 'restart'
on_crash    = 'restart'
```

Starting the VM

- with console :

```
xm create wheezy32bits.cfg -c
```

- without console :

```
xm create wheezy32bits.cfg
```

Firewall

- dom0 firewall rules : [firewall](#)
- VMs firewall rules : [firewall.VM](#)

From: <https://unix.ndlp.info/> - **Where there is a shell, there is a way**

Permanent link:
https://unix.ndlp.info/doku.php/xen_robin

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