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The Perfect Xen Setup For Debian And Ubuntu - Page 2

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3.1 Installing The Binary Package

Run the following commands:

```
apt-get remove exim4 exim4-base lpr nfs-common portmap pidentd pcmcia-cs pppoe pppoeconf ppp pppconfig
apt-get install screen ssh debotstrap python python2.3-twisted iproute bridge-utils libcurl3-dev
```

```
<-- Yes
<-- Yes
```

3.1.1 Install Xen

Next do this:

```
cd /usr/src/
wget http://www.cl.cam.ac.uk/Research/SRG/netos/xen/downloads/xen-2.0.7-install-x86_32.tgz

tar xvzf xen-2.0.7-install-x86_32.tgz
cd xen-2.0-install
./install.sh

mv /lib/tls /lib/tls.disabled
```

Now Xen is installed. In order to start the Xen services at boot time, do the following:

```
update-rc.d xend defaults 20 21
update-rc.d xendomains defaults 21 20
```

3.1.2 Configure The Bootloader And Reboot

Next we add the Xen kernel to *Grub*, our bootloader. Edit `/boot/grub/menu.lst`, and before the line `### BEGIN AUTOMAGIC KERNELS LIST` add the following stanza:

```
title Xen 2.0 / XenLinux 2.6.11
kernel /xen.gz dom0_mem=64000
module /vmlinuz-2.6.11-xen0 root=/dev/hda6 ro console=tty0
```

Make sure that `/dev/hda6` is your `/` partition. Keep in mind what I said about *Grub* and partitioning in chapter 1!

Now reboot the system:

```
shutdown -r now
```

At the boot prompt, *Grub* should now list *Xen 2.0 / XenLinux 2.6.11* as the first kernel and boot it automatically. If your system comes up without problems, then everything is fine!

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From: Anonymous

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In Ubuntu my ./install.sh failed due to i missing the twisted framework.
The error was;
Installing Xen from './install' to '/'...
All done.
Checking to see whether prerequisite tools are installed...
FAILED check_twisted
Checks failed. See /usr/src/xen-2.0-install/check/.chkinstall for details.
All done.
I fixed this by 'apt-get install python-twisted'
k31th

From: Anonymous

Reply

This is a great how-to and I only have a small addition:

If you want to run more than 4 virtual machines, you need to add a boot option for the dom0 kernel in order to permit enough file-backed virtual block devices. In the example above, the line
module /vmlinuz-2.6.11-xen0 root=/dev/hda6 ro console=tty0
in section 3.1.2 has to be modified to
module /vmlinuz-2.6.11-xen0 root=/dev/hda6 ro console=tty0 max_loop=X
where the X needs to be replaced by 2 times the number of virtual machines.
Of course, as the Xen manual points out, if you have heavy I/O taking places in your virtual machines, you may experience performance losses if you increase X much beyond the default value of 8.

Dirk Petry

From: Anonymous

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as well as the max_loop=16 (or 2 x however many VMs you want)
you might need to make the loop devices eg /dev/loop8 /dev/loop9 etc
This helped me:
for i in \$(seq 8 63) ; do mknod /dev/loop\$i b 7 \$i ; done
chmod 660 /dev/loop* ; chown 0.disk /dev/loop*
HTH Simon Faulkner

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