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Install Xen with Debian Etch

Backup any Previous Boot and Xen Configs

```
cp -R /etc/xen /root/  
cp -R /boot /root/
```

Uninstall any previous Xen software

If you are running an old Xen, the software and kernel can be removed while in dom0 (base xen instance).

```
dpkg -l | grep -i xen  
apt-get remove xen-tools etc.
```

Main Install

```
apt-get install linux-image-2.6-xen-686 xen-hypervisor-3.0.3-1-i386-pae xen-tools bridge-utils libc6
```

Note: The pae hypervisor was the one which was required

"Debian Xen System and PAE....this is a well known problem, because the Debian Xen Team cancelled support for non-pae kernels" - thanks serverchef.

Note: re libc6-xen: It eliminates moving /lib/tls to /lib/tls.disabled (supposedly).

Check Grub & Reboot

Check /boot/grub/menu.lst to see if the Xen Kernel and initrd.img are added in correctly.

After reboot, check xen with: "xm list", "xm top". Also check "ifconfig", which should show: peth0 and vif0.0.

Setting up dom0 correctly to use Network Bridge

```
vi /etc/xen/xend-config.sxp
#xend-relocation-server yes
(vif-script vif-bridge)
(dom0-min-mem 128)
#(network-script network-dummy)
#(xend-relocation-hosts-allow '^localhost$')
(network-script network-bridge)
```

Setup Xen Guest Domains - domU

The setup is the exact same as here: [Create DomU](#)

Extra Tweaking of domU Required

On all domU xen config files, make sure to specify a fixed MAC address. Otherwise udev will increment the domU eth0 to eth1 etc. This problem is further discussed [here](#)

```
vi /etc/xen/domains/name_of_vm
vif = ['mac=aa:00:00:7d:f8:77, bridge=xenbr0']
```

On all domU's:

```
apt-get install linux-image-2.6-xen-686
```

To fix up "4gb seg fixup" errors on domU's:

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

/lib/tls will be repopulated when apting new packages and updating libc. A more permanent solution can be found here: <http://wiki.xensource.com/xenwiki/DebianTlsLibcDiversion>
<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=405223> The domU's need to be rebooted for this to take effect and for the "4gb seg fixup" errors to stop.

RAID 1

Please read:

<http://svn.debian.org/wsvn/pkg-mdadm/mdadm/trunk/debian/README.upgrading-2.5.3?op=file>

It mainly details with raid1 when migrating from sarge to etch however.

Extra Step - NOT Required

This step below was only required for sarge backports.

```
vi /etc/initramfs-tools/modules
#include the following
raid1

update-initramfs -u
update-initramfs -u -a #for all kernels
```

That should be it. There are a few issues I was having with root of dom0 loading of /dev/md0. I will post the fixes and details here later.