[**xen创建pvm和hvm的过程**](http://www.cnblogs.com/liuyikang/p/3878583.html)

*these are the basic steps of installing domU with xen-tools in ubuntu13.04 64bit in xen4.3*

*you can also use virt-manager which has an UI, but there may be some bugs between xen and virt-manager.*

*install a bridge:*

*before xen4.1, xen will automatically create xenbr0. in xen4.3, things are different, we need to create xenbr0 by hands.*

*the steps are for the situation where your computer is using dhcp. for static ip setting, the bridge may be not crrect.*

*first, install a tool named brctl:*

**sudo apt-get install bridge-utils**

**sudo brctl (this will show the help info. then you can see how to use commands like 'addbr' or 'addif')**

**sudo brctl show (this is to see your current status)**

*then change file "etc/network/interfaces" to this:*

auto lo

iface lo inet loopback

auto xenbr0

iface xenbr0 inet dhcp

bridge\_ports eth0

auto eth0

iface eth0 inet manual

*then turn xenbr0 up:*

**sudo ifup xenbr0**

*then in ifconfig you should see the status of xenbr0 is "up"*

**sudo ifconfig xenbr0**

*ok, reboot to get things work*

*Install PV domu:*

**sudo apt-get install xen-tools**

**sudo xen-create-image --hostname=yourhostname --dist=lucid --dir=/home/zmj/xenfile(change it to your own) --mirror=**[**http://cn.archive.ubuntu.com/ubuntu**](http://cn.archive.ubuntu.com/ubuntu) **--role=udev --verbose --pygrub --dhcp --passwd**

**ps：the hostname is the vm’s name**

*this xen-create-image command will automatically create a \*.cfg fill in /etc/xen/ and create "domains/yourhostname/disk.img and swap.img" under your dir (in this example "/home/zmj/xenfile")*

*if these files, i.e. "domains/yourhostname/disk.img and swap.img" already exist in your dir, then the command will fail. you have three choices: 1.use --force in the command to rewrite the files 2. delete the files by hands 3. change your hostname to something else*

*the "yourhostname" are suggested to be short, better within 10 chars. there is a case that we cannot get things done until we give a short name to the --hostname.*

*this command will take a relative long time because it needs to download something via http.*

*with the \*.cfg file you can create VM with 'xm create'. of course you can write \*.cfg by yourself as long as the settings in your \*.cfg file are correct, which would be much more difficult.*

*by the way, in /etc/xen there are some example.cfg which you can refer to.*

*you can find your img file at the --dir you specified at the command, i.e. /home/zmj/xenfile. you can mount this img to see what is inside:)*

*the --passwd option is important. with this, it will ask you for the pasword of your domu at the end of this command's running. otherwise, you'll not be able to login* unless you mount the whole domu img and edit /etc/shadow file. or you can set passwd=1 in /etc/xen-tools/xen-tools.conf, which makes the command always asking a password.

*you can use --lvm instead of --dir. more info,  plz refer to* [*http://manpages.ubuntu.com/manpages/precise/man8/xen-create-image.8.html*](http://manpages.ubuntu.com/manpages/precise/man8/xen-create-image.8.html)

**sudo xl create /etc/xen/yourhostname.cfg (plz teach yourself if dont know how to use xl)**

*it will throw an error if bridge xenbr0 is missing. or you can modify the .cfg file.*

*do this command you may see this*

Iyk@ubuntu:Æ sud0 xl create /etc/xen/ubuntu.cfg

xend is runnlng, wh1ch may cause unpredlctable results when us1ng th1s xl command.

Please shut down xend before cont1nu1ng.

*At this time，you can do this command:*

**sudo service xend stop**

 ps:这里因为现在的命令xl不需要使用xend了，以前的xm是需要用到xend的。

**sudo xl list**

*You shall see your domU after this command.*

**sudo xl console yourhostname**

*Use this command to go inside the domU with username=root and password=yourpasswd*

*Press “Ctrl+]” will get you out of the vm console.*

*Install HVM domU:(if your xen kernel is a vmware virtual machine, you can not create a HVM)*

*The installation of HVM is much easier than that of a PV.*

*Put a \*.iso file at some directory which is the OS you are going to build, for example win7.iso*

*Use this command to create an empty \*.img file, which will act like the hard disk of your VM.*

**dd if=/dev/zero of=XXX.img bs=1024k count=(count of bs)**

*Write a \*.cfg file like this:*

kernel = "/usr/local/lib/xen/boot/hvmloader"

builder='hvm'

memory = 2048

vcpus=4

shadow\_memory = 64

name = "u8s"

vif = [ 'mac=00:16:3E:63:34:21, bridge=xenbr0' ]

disk = [ 'file:/home/zmj/img/ubuntu8s.img,hda,w', 'file:/home/zmj/iso/ubuntu8s.iso,hdc:cdrom,r' ]

boot="bc"

vnc = 1

sdl = 0

vncconsole=1

xen\_platform\_pci=0

acpi = 1

apic = 1

device\_model = '/usr/local/lib/xen/bin/qemu-dm'   
stdvga=0   
serial='pty'   
usbdevice='tablet'

*The \*.img path and the \*.iso path shall be correct. The kelnel path and the device\_model path shall be correct.*

*Use this command to start the installation*

**sudo xl create \*.cfg**

*After the installation, change “bc” to “c” in the \*.cfg file. “bc” means boot from cd, while “c” means boot from hard disk.*

*Run this command again and you’ll find the VM running*

**sudo xl create \*.cfg**

*Use this command to see the vm list*

**sudo xl list**

*Use this command to open the VM.*

**sudo xl vncviewer domu**