



? RHEL5 Xen ??? Virtual machine ? Network ????? 1.Virtual network 2.Shared physical device ??????.

? RHEL5 Xen ?????????? bridge,????? QEMU ?????? virbr0,?????? Xen ?????? xenbr0,??? Virtual machine ???
?????????. 1.Virtual network 2.Shared physical device????????????????,?????? virbr0.

- **Virtual network - virbr0**

1. QEMU Dom0 bridge "virbr0" .virbr0 NAT + DHCP
Virtual machine(DomU) virbr0 (private IP). 192.168.122.2 ~ 192.168.122.254 DHCP IP.
2. default gateway 192.168.122.1/24 , domU dom0 ? NAT.
3. NAT domU private , DomU.

Qemu Xen (/etc/xen) /etc/libvirt/qemu/networks/default.xml

```
<network>
<name>default</name>
<uuid>49a0ceb-5662-4a61-8149-98ea750d393b</uuid>
<bridge name="virbr0" />
<forward/>
<ip address="192.168.122.1" netmask="255.255.255.0">
<dhcp>
<range start="192.168.122.2" end="192.168.122.254" />
```

</dhcp>
</ip>
</network>

??? ip address ? default gateway IP,range ??DHCPclients ??????,??????????.

- **Shared physical device - xenbr0**

??? Virtual machine(DomU) ? Dom0 ?????????????? Hub ?? Switch ?,???????? IP ?????.

???? XEN ? Network ??? : <http://benjr.tw/?q=node/215>

???????????????? Virtual machine ???(?? /etc/xen ???),Virtual machine ????????? Virtual machine ??
"system Name"??? Virtual machine ? system name ? rhel4 ?????????? /etc/xen/rhel4,???? vif ??
virbr0 ?? xenbr0

1.Virtual network - virbr0

vif =[bridge=virbr0]

??

2.Shared physical device - xenbr0

vif =[bridge=xenbr0]

???? Guest OS ?????? Virtual Machine Manager ? Details / hardware ?? NIC ??? NAT ?? Bridge ???! XEN ???

???????? Virtual machinet ? NIC ?????????????? Guest OS ?????!

???????? rhel4(Dom 3) ? rhel5(Dom 4) ??,???? networking ?????,???????????????????? Dom ID ?!

virbr0 ??? NAT networking ,???? vif3.0 ?? Dom3(rhel4) ??? eth0 ??? NAT networking.

xenbr0 ??? bridge networking,vif0.0 / vif4.0?? Dom0(RHEL5 ??) Dom4(rhel5) ??? eth0 ???bridge networking.

note:??????? RHEL5 ???????? 4 ? Xen bridge.???????????? 4 ?,?????,?????????4? port ? Server ??,??? port ??
 ????,????????????? port ????,?????????????.????????? port ???????? RHEL ?? RHEL5 U3 ??????.

- **Set fixed MAC address for your virtual system**

????????????????????? MAC address ,????????? mac ??????????. mac :XY:XX:XX:XX:XX ,mac ??16?????
 X ??????16??(0~9,A,B,C,D,E,F), Y ?????? 2, 6, A ? E. ?? Xen ??????? 00:16:3e:xx:xx:xx. ???????? Xen ??? . ????????
 ??????? Virtual machine ?????????????? /etc/xen/ ?.

```
[root@benjr ~]# vi /etc/xen/rhel4
name = "rhel4"
uuid = "cf67710d-b756-086b-8cde-be61d2faca1b"
maxmem = 512
memory = 512
vcpus = 1
bootloader = "/usr/bin/pygrub"
on_poweroff = "destroy"
on_reboot = "restart"
on_crash = "restart"
vfb = [ "type=vnc,vncunused=1,keymap=en-us" ]
disk = [ "phy:/dev/sda5,xvda,w" ]
vif = [ "mac=00:16:3e:27:95:c0,ip=10.0.0.1" ]
```

? vif = ["mac=XY:XX:XX:XX:XX:XX"] ??? mac ???.

???? : <http://blog.ithome.com.tw/index.php?op=ViewArticle&articleId=21580&blogId=257>