Xen 和 KVM 下如何关闭 virbr0

安装 Xen 或安装 KVM 后都会发现网络接口里多了一个叫做 virbr0 的虚拟网络接口：

# ifconfig

...

virbr0 Link encap:Ethernet HWaddr d2:91:97:b8:3d:fc

inet addr:192.168.122.1 Bcast:192.168.122.255 Mask:255.255.255.0

UP BROADCAST MULTICAST MTU:1500 Metric:1

RX packets:0 errors:0 dropped:0 overruns:0 frame:0

TX packets:0 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:0

RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)

...

这是由于安装和启用了 libvirt 服务后生成的，libvirt 在服务器（host）上生成一个 virtual network switch (virbr0)，host 上所有的虚拟机（guests）通过这个 virbr0 连起来。默认情况下 virbr0 使用的是 NAT 模式（采用 IP Masquerade），所以这种情况下 guest 通过 host 才能访问外部。

大多数时候我们虚拟机使用的是 bridge（网桥）直接连到局域网里，所以这个 virbr0 不是必须的（注：不要搞混淆了，bridge 和这里的 virbr0 bridge 是互不相干的）。如何关掉这个 virbr0 呢？先 net-destroy 然后 net-undefine，最后别忘了重启 libvirtd 让设置生效：

# virsh net-list

Name State Autostart

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default active yes

# virsh net-destroy default

Network default destroyed

# virsh net-undefine default

Network default has been undefined

# service libvirtd restart

Stopping libvirtd daemon: [ OK ]

Starting libvirtd daemon: [ OK ]

Red Hat企业版5 卸载virbr0

如果创建过虚拟机那么使用# yum groupremove "Virtualization"来卸载所有组件

输出为：

Loading "rhnplugin" plugin

Loading "security" plugin

Setting up Group Process

rhel-x86\_64-server-vt-5 100% |=========================| 1.4 kB 00:00

rhn-tools-rhel-x86\_64-ser 100% |=========================| 1.2 kB 00:00

rhel-x86\_64-server-5 100% |=========================| 1.4 kB 00:00

No package matched to remove

No package matched to remove

No package matched to remove

No package matched to remove

No package matched to remove

Resolving Dependencies

--> Running transaction check

---> Package libvirt.x86\_64 0:0.3.3-7.el5 set to be erased

--> Processing Dependency: libvirt.so.0()(64bit) for package: libvirt-python

--> Processing Dependency: libvirt = 0.3.3 for package: libvirt-python

--> Running transaction check

---> Package libvirt-python.x86\_64 0:0.3.3-7.el5 set to be erased

--> Processing Dependency: libvirt-python for package: rhn-virtualization-host

--> Running transaction check

---> Package rhn-virtualization-host.noarch 0:1.0.1-55 set to be erased

--> Finished Dependency Resolution

Dependencies Resolved

=============================================================================

Package Arch Version Repository Size

=============================================================================

Removing:

libvirt x86\_64 0.3.3-7.el5 installed 3.4 M

Removing for dependencies:

libvirt-python x86\_64 0.3.3-7.el5 installed 230 k

rhn-virtualization-host noarch 1.0.1-55 installed 155 k

Transaction Summary

=============================================================================

Install 0 Package(s)

Update 0 Package(s)

Remove 3 Package(s)

Is this ok [y/N]: y

Downloading Packages:

Running rpm\_check\_debug

Running Transaction Test

Finished Transaction Test

Transaction Test Succeeded

Running Transaction

Erasing : libvirt-python ######################### [1/3]

Erasing : rhn-virtualization-host ######################### [2/3]

Stopping crond: [ OK ]

Starting crond: [ OK ]

Erasing : libvirt ######################### [3/3]

Removed: libvirt.x86\_64 0:0.3.3-7.el5

Dependency Removed: libvirt-python.x86\_64 0:0.3.3-7.el5 rhn-virtualization-host.noarch 0:1.0.1-55

Complete!

如果没有创建虚拟机，那么使用如下步骤来卸载虚拟网卡：

# yum remove rhn-virtualization-host

# yum remove libvirt-python

# yum remove libvirt

# ifconfig

Linux KVM禁用virbr0 NAT接口

一般情况下，虚拟网络（virtbr0）用作nat，以允许虚拟机访问网络服务。但是，nat一般推荐使用在桌面环境。可以使用以下方法来禁用nat：

首先用ifconfig命令显示当前网络情况

#ifconfig

virbr0 Link encap:Ethernet HWaddr 32:CF:A9:2B:01:7B

inet addr:192.168.122.1 Bcast:192.168.122.255 Mask:255.255.255.0

inet6 addr: fe80::200:ff:fe00:0/64 Scope:Link

UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1

RX packets:176 errors:0 dropped:0 overruns:0 frame:0

TX packets:94 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:0

RX bytes:28057 (27.3 KiB) TX bytes:17198 (16.7 KiB)

又在使用virsh net-list查看

Name State Autostart

-----------------------------------------

default active yes

使用以下方法禁用virbr0

# virsh net-destroy default

# virsh net-undefine default

# service libvirtd restart

# ifconfig