RHEL / CentOS 6.x KVM Virtualization Installation and Configuration Guide

## Step1 Install required KVM RPMs/packages

# yum groupinstall "Virtualisation Tools" "Virtualization Platform"  
# yum install python-virtinst

Yum groupinstall vitual\*

## Step2 Turn on libvirtd service

# chkconfig libvirtd on

# service libvirtd start

# **service libvirtd status**

libvirtd (pid 31128) is running...

# **virsh -c qemu:///system list**

Step3 **Install and configure a network bridge**

# yum install bridge-utils

### Configure bridging

Update /etc/sysconfig/network-scripts/ifcfg-eth0 (private) as follows:

# cat /etc/sysconfig/network-scripts/ifcfg-eth0  
DEVICE=eth0

BOOTPROTO=none  
ONBOOT=yes  
HWADDR=00:30:48:C6:0A:D8  
BRIDGE=br0

Update /etc/sysconfig/network-scripts/ifcfg-br0(public) as follows:

# cat /etc/sysconfig/network-scripts/ifcfg-br0  
DEVICE=br0  
TYPE=Bridge  
ONBOOT=yes  
HWADDR=00:30:48:C6:0A:D9  
**IPADDR=192.168.10.91  
NETMASK=255.255.255.0  
GATEWAY=192.168.10.1**

**STP=yes**

**Save and quit**

### Restart the networking service

Service network restart

### Verify br0/br1 settings

# brctl show  
# ip addr show br0  
# ping cyberciti.biz

## Creating VMs

You need to use virt-install command.

### Create rhel linux VM

# cd /var/lib/libvirt/boot/  
# wget <http://ftp.openbsd.org/pub/OpenBSD/5.4/amd64/install54.iso>

virt-install \

-n cent6 \

--description "centos6 64 bit VM1" \

--ram=1024 \

--os-type=linux \

--vcpus=1 \

--os-variant rhel6 \

--accelerate \

--hvm \

--cdrom /var/lib/libvirt/boot/CentOS-6.8-x86\_64-minimal.iso \

--network network:default \

--graphics none \

--disk path=/var/lib/libvirt/images/CentOS-6.8-x86\_64.img,bus=virtio,size=20

### How do I connect to linux installer from my local desktop?

# ssh -L 5900:127.0.0.1:5900 root@KVM-Server-IP-Here

### How do I start my VM after OpenBSD install is finished?

The virt-install will create a config file for VM at /etc/libvirt/qemu/obsd-vm1.xml. To start VM called obsd-vm1, enter:

# virsh start obsd-vm1

### How do I access a VMs console?

### # virsh console obsd-vm1