

#KVM networking overview

lscpu | grep Virtualization

```
Virtualization:          VT-x
Virtualization type:     full
```

lsmod | grep kvm

```
kvm_intel                237568    14
kvm                      724992    1  kvm_intel
irqbypass                16384    39  vfio_pci,kvm
```

systemctl status libvirtd

brctl show

bridge name	bridge id	STP enabled	interfaces
virbr0	8000.506b8d38d85a	no	virbr0-nic vnet1

cat /etc/qemu-kvm/bridge.conf

```
allow virbr0
```

#list ip addresses and devices

What is the ip address of virbr0?

~] # ifconfig virbr0

```
virbr0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 192.168.5.1  netmask 255.255.255.0  broadcast
192.168.5.255
```

What is the ip address of br0?

~] # ifconfig br0

```
br0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 192.168.4.110  netmask 255.255.255.0  broadcast
192.168.4.255
```

Are there any vnet interfaces?

~] # ifconfig | grep vnet

```
vnet0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
vnet1: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
vnet2: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
```

Are there any tap interfaces?

```
~] # ifconfig | grep tap
tap0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
tap1: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
```

What are the available disks?

```
~]# lsblk -f
sdb
└─sdb1 ext4          0f20ef36-4308-4c25-9042-4cae2e16daec
sr0
sdc
├─sdc2 ext4          c90393df-ac57-49e1-8c4c-5b1972e1b4c1
├─sdc3 ext4          e2e986d5-9551-48fd-96c7-689e93172e09
├─sdc1 ext4          5b49e5c2-82ca-4b54-a33c-3e32cf0ceea8
└─sdc4 ext4          b4507e07-010f-4974-91be-b2db7cab33c7
sda
└─sda1 ext4          3573eb5b-8764-4dfa-8e21-19ac5e9a0e21 /
```

To view the configuration of the CVM, mount the filesystem that holds all config.

```
~]# mkdir /mnt/sdb
~]# mount /dev/sdb1 /mnt/sdb
~]# ls -l /mnt/sdb/metadata
total 16
drwx-----. 2 1000 1000 4096 Sep  3 12:32 aesdb
drwx-----. 4 1000 1000 4096 Aug 28 14:39 cassandra
drwx-----. 3 1000 1000 4096 Aug 31 12:41 dynamic_ring_changer
drwx-----. 4 1000 1000 4096 Aug 28 14:39 stargate-storage

~]# umount /mnt/sdb
```