Linux Virtualization with CentOS and KVM : Luis López, CTI-UPRM

nux Virtualization
th CentOS and
VM : Luis López,
Í-UPRM

Apagar SELINUX

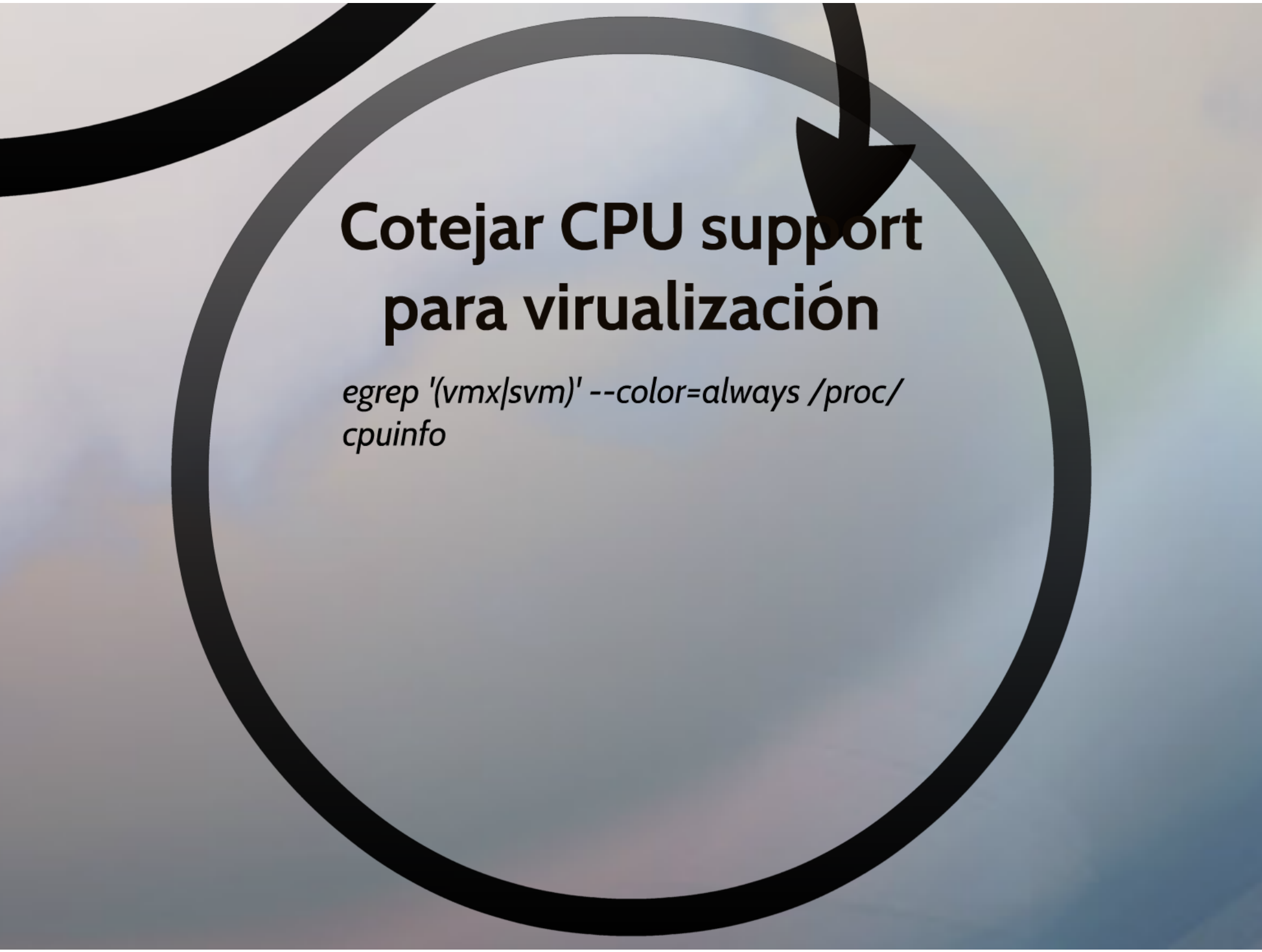
Editar /etc/sysconfig/selinux
SELINUX=disabled

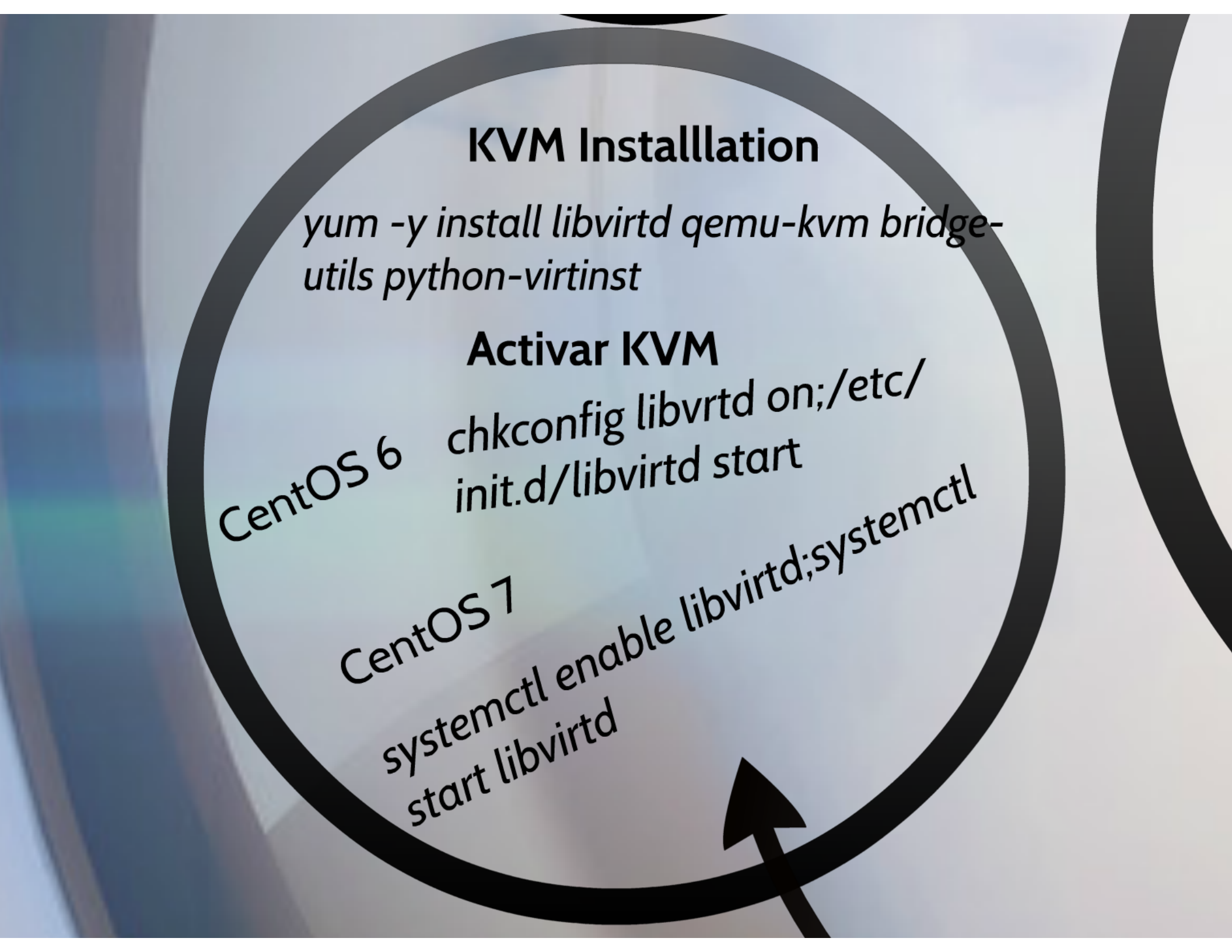
TYPE=Bridge
BOOTPROTO=none
IPADDR=192.168.0.1
NETMASK=255.255.2
GATEWAY=192.168.0.
DNS1=136.145.30.2
DNS2=8.8.8.8
DEFROUTE=yes
IPV4_FAILURE_FATAL
IPV6INIT=no
NAME="System br0"

m bridge-

/etc/

ystemctl


Cotejar CPU support
para virualización
egrep '(vmx|svm)' --color=always /proc/
cpuinfo


KVM Installlation
yum -y install libvirtd qemu-kvm bridge-utils python-virtinst
Activar KVM
CentOS 6
chkconfig libvrtd on;/etc/init.d/libvirtd start
CentOS 7
systemctl enable libvirtd;systemctl start libvirtd

Check Installation

virsh -c qemu:///system list

Netwok configuration

vi /etc/sysconfig/network-scripts/ifcfg-br0

```
DEVICE="br0"
ONBOOT=yes
TYPE=Bridge
BOOTPROTO=none
IPADDR=192.168.0.100
NETMASK=255.255.255.0
GATEWAY=192.168.0.1
DNS1=136.145.30.2
DNS2=8.8.8.8
DEFROUTE=yes
IPV4_FAILURE_FATAL=yes
IPV6INIT=no
NAME="System br0"
```

```
DEVICE="br0"
ONBOOT=yes
TYPE=Bridge
BOOTPROTO=none
IPADDR=192.168.0.100
NETMASK=255.255.255.0
GATEWAY=192.168.0.1
DNS1=136.145.30.2
DNS2=8.8.8.8
DEFROUTE=yes
IPV4_FAILURE_FATAL=yes
IPV6INIT=no
NAME="System br0"
```

...Network Configuration

vi /etc/sysconfig/network-scripts/ifcfg-eth0

```
DEVICE="eth0"
#BOOTPROTO=none
ONBOOT=yes
TYPE="Ethernet"
UUID="73cb0b12-1f42-49b0-ad69-731e888276ff"
HWADDR=00:1E:90:F3:F0:02
#IPADDR=192.168.0.100
#GATEWAY=192.168.0.1
#DNS1=8.8.8.8
#DNS2=8.8.4.4
DEFROUTE=yes
IPV4_FAILURE_FATAL=yes
IPV6INIT=no
NAME="System eth0"
BRIDGE=br0
```

CentOS 6 */etc/init.d.network restart*

CentOS 7 *systemctl restart network*

ifconfig

```
DEVICE="etho"
#BOOTPROTO=none
ONBOOT=yes
TYPE="Ethernet"
UUID="73cbob12-1f42-49b0-ad69-731e888276ff"
HWADDR=00:1E:90:F3:F0:02
#IPADDR=192.168.0.100
#GATEWAY=192.168.0.1
#DNS1=8.8.8.8
#DNS2=8.8.4.4
DEFROUTE=yes
IPV4_FAILURE_FATAL=yes
IPV6INIT=no
NAME="System etho"
BRIDGE=bro
```

virsh

List vm *virsh list --all*

Start/Stop vm *virsh destroy/start vmname*

Suspend/Resume vm *virsh suspend/resume vmname*

autostart vm *virsh autostart vmname*

edit vm *virsh edit vmname*

new vm **virt-install**

```
virt-install \
  --name=vm-test \
  --ram=2048\
  --vcpus=2\
  --disk path=/var/lib/libvirt/images/vm-test
bus=virtio,cache=none,format=qcow2 \
  --os-type=linux\
  --network network=default,model=virtio \
  --graphics=vnc \
  --cdrom=/isos/centos71.x86_64 \
  --autostart
```

List vm *virsh list --all*

Start/Stop vm *virsh destroy/start vmname*

Suspend/Resume vm *virsh suspend/resume vmname*

autostart vm *virsh autostart vmname*

edit vm *virsh edit vmname*

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  --autostart
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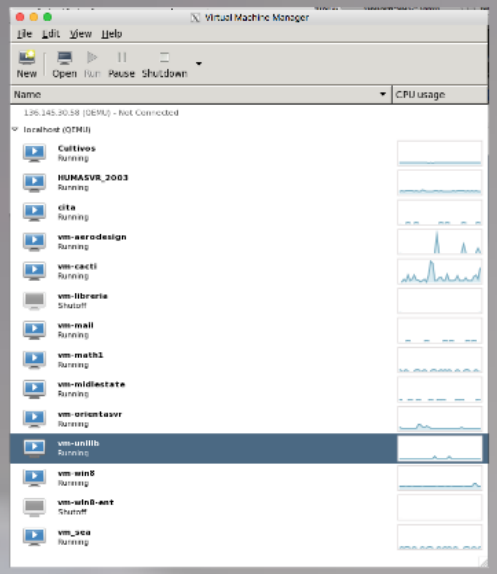
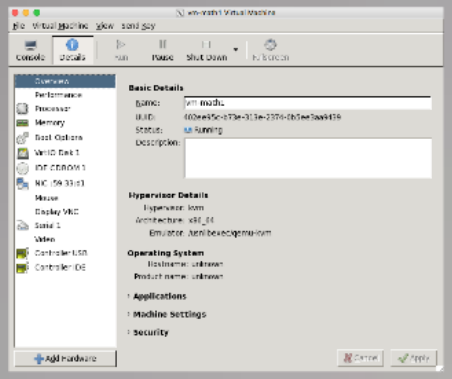
bus=virtio,cache=none,format=qcow2 \
  --os-type=linux\
  --network network=default,model=virtio \
  --graphics=vnc \
  --cdrom=/isos/centos71.x86_64 \
  --autostart
```

virt-manager





kvm files

Images: /var/lib/libvirt/images

vm description: /etc/libvirt/qemu

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