

SA Homework 3 Answers

1

```
$ sudo su
$ yum install virt-install qemu-kvm libvirt
$ systemctl start libvirtd
$ systemctl enable libvirtd
```

2

```

$ mkdir /data
$ mkdir /data/img
$ qemu-img create -f qcow2 /data/img/nasa.qcow2 10G
$ brctl addbr br0
$ brctl addif br0 ens33
$ vim /etc/sysconfig/network-script/ifcfg-ens33
###
# TYPE=Ethernet
# NAME=ens33
# UUID={UUID}
# DEVICE=ens33
# ONBOOT=yes
# BRIDGE=br1
# BOOTPROTO=none
###
$ vim /etc/sysconfig/network-script/ifcfg-br1
###
# TYPE=Bridge
# PROXY_METHOD=none
# BROWSER_ONLY=no
# BOOTPROTO=dhcp
# DEFROUTE=yes
# IPV4_FAILURE_FATAL=yes
# IPV6INIT=no
# NAME=br1
# UUID={UUID}
# DEVICE=br1
# ONBOOT=yes
###
$ systemctl restart network
$ virt-install \
    --name=nasa \
    --disk path=/data/img/nasa.qcow2 \
    --vcpus=4 --ram=1024 \
    --location=http://centos.cs.nctu.edu.tw/7/os/x86_64/ \
    --network bridge=br1 \
    --nographics \
    --os-type=linux \
    --os-variant=centos7.0 \
    --initrd-inject=anaconda-ks.cfg \
    --extra-args "ks=file:/root/anaconda-ks.cfg text console=tty0 c

```

```
$ virsh console nasa
```

4

```
$ virsh list --all  
$ virsh undefine [domain name] #vm should be stopped  
$ virsh edit [domain name]  
$ virsh domiflist [domain name]  
$ brctl show
```

5

```
$ virsh snapshot-create-as \  
    --domain nasa \  
    --diskspec vda,file=$SNAP_PATH \  
    --disk-only --atomic  
$ rsync -avh --progress /data/img/nasa.qcow2 /bc-img/nasa_backup.qcow2  
$ virsh blockcommit nasa vda --active --verbose --pivot  
$ rm $SNAP_PATH
```