

- 云计算
 - OpenStack
 - Cinder
 - 克隆VM

云计算

OpenStack

Cinder

克隆VM

```
virt-clone -o a260c73 -n 21cin1 -f /var/lib/libvirt/images/21cin1.qcow2
```

Block Node

```
nmcli general hostname cin1.blue.edu

nmcli connection add type team ifname team0 con-name team0 config '{"runner": {"name": "activebackup", "hwaddr_policy": "by_active"}}'

nmcli connection modify team0 ipv4.method manual ipv4.addresses 192.168.1.94/24 ip
v4.gateway 192.168.1.1 ipv4.dns "192.168.1.90 119.29.29.29" ipv6.method ignore aut
oconnect yes

nmcli connection add type team-slave ifname eth0 con-name eth0 master team0
nmcli connection add type team-slave ifname eth1 con-name eth1 master team0

nmcli connection modify eth0 ipv6.method ignore autoconnect no
nmcli connection modify eth1 ipv6.method ignore autoconnect no
```

```
yum install lvm2
```

```
systemctl enable lvm2-lvmetad.service
systemctl restart lvm2-lvmetad.service
```

```
pvcreate /dev/vdb
vgcreate cinder-volumes /dev/vdb
```

```
cp /etc/lvm/lvm.conf /etc/lvm/lvm.conf.ds.bak
```

```
devices {  
filter = [ "a/vda/", "a/vdb/", "r/.*/"]
```

```
50
```

```
yum install openstack-cinder targetcli python-keystone
```

```
/etc/cinder/cinder.conf
```

```
[database]  
connection = mysql+pymysql://cinder:CINDER_DBPASS@base.blue.edu/cinder
```

```
[DEFAULT]  
transport_url = rabbit://openstack:RABBIT_PASS@base.blue.edu
```

```
[DEFAULT]  
auth_strategy = keystone
```

```
[keystone_authhtoken]  
auth_uri = http://ctrl.blue.edu:5000  
auth_url = http://ctrl.blue.edu:35357  
memcached_servers = base.blue.edu:11211  
auth_type = password  
project_domain_name = default  
user_domain_name = default  
project_name = service  
username = cinder  
password = CINDER_PASS
```

```
[DEFAULT]  
my_ip = 192.168.1.94
```

```
[lvm]  
volume_driver = cinder.volume.drivers.lvm.LVMVolumeDriver  
volume_group = cinder-volumes  
iscsi_protocol = iscsi  
iscsi_helper = lioadm
```

```
[DEFAULT]  
enabled_backends = lvm
```

```
[DEFAULT]  
glance_api_servers = http://ctrl.blue.edu:9292
```

```
[oslo_concurrency]  
lock_path = /var/lib/cinder/tmp
```

```
cp /etc/cinder/cinder.conf /etc/cinder/cinder.conf.ds.bak
cat /etc/cinder/cinder.conf.ds.bak | grep -v ^# | uniq > /etc/cinder/cinder.conf

sed -i '/^\[database\]$/a connection = mysql+pymysql://cinder:CINDER_DBPASS@base.blue.edu/cinder' /etc/cinder/cinder.conf
sed -i '/^\[keystone_auth_token\]$/a auth_uri = http://ctrl.blue.edu:5000\nauth_url = http://ctrl.blue.edu:35357\nmemcached_servers = base.blue.edu:11211\nauth_type = password\nproject_domain_name = default\nuser_domain_name = default\nproject_name = service\nusername = cinder\npassword = CINDER_PASS' /etc/cinder/cinder.conf
sed -i '/^\[DEFAULT\]$/a transport_url = rabbit://openstack:RABBIT_PASS@base.blue.edu\nnauth_strategy = keystone\nmy_ip = 192.168.1.94\nenabled_backends = lvm\n glance_api_servers = http://ctrl.blue.edu:9292' /etc/cinder/cinder.conf
sed -i '/^\[oslo_concurrency\]$/a lock_path = /var/lib/cinder/tmp' /etc/cinder/cinder.conf

echo -e "[lvm]\nvolume_driver = cinder.volume.drivers.lvm.LVMVolumeDriver\nvolume_group = cinder-volumes\niscsi_protocol = iscsi\niscsi_helper = lioadm" >> /etc/cinder/cinder.conf
```

```
systemctl enable openstack-cinder-volume.service target.service
systemctl restart openstack-cinder-volume.service target.service
```