

- 云计算
  - OpenStack
    - Cinder

# 云计算

## OpenStack

### Cinder

Base Node

```
mysql -uroot -proot
CREATE DATABASE cinder;
GRANT ALL PRIVILEGES ON cinder.* TO 'cinder'@'localhost' IDENTIFIED BY 'CINDER_DBPASS';
GRANT ALL PRIVILEGES ON cinder.* TO 'cinder'@'%'           IDENTIFIED BY 'CINDER_DBPASS';
show databases;
exit
```

Ctrl Node

```
. admin-openrc

openstack user create --domain default --password CINDER_PASS cinder
openstack role add --project service --user cinder admin

openstack service create --name cinder   --description "OpenStack Block Storage" volume
openstack service create --name cinderv2 --description "OpenStack Block Storage" volumev2

openstack endpoint create --region RegionOne volume public    http://ctrl.blue.edu:8776/v1/\(tenant_id\)s
openstack endpoint create --region RegionOne volume internal http://ctrl.blue.edu:8776/v1/\(tenant_id\)s
openstack endpoint create --region RegionOne volume admin     http://ctrl.blue.edu:8776/v1/\(tenant_id\)s

openstack endpoint create --region RegionOne volumev2 public  http://ctrl.blue.edu:8776/v2/\(tenant_id\)s
openstack endpoint create --region RegionOne volumev2 internal http://ctrl.blue.edu:8776/v2/\(tenant_id\)s
openstack endpoint create --region RegionOne volumev2 admin   http://ctrl.blue.edu:8776/v2/\(tenant_id\)s
```

```
yum install openstack-cinder
```

```

/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 = 192.168.1.91

[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 '/^\[database\]$/{connection = mysql+pymysql://cinder:CINDER_DBPASS@base.blue.edu/cinder}' /etc/cinder/cinder.conf
sed -i '/^\[DEFAULT\]$/{transport_url = rabbit://openstack:RABBIT_PASS@base.blue.edu\nauth_strategy = keystone\nmy_ip = 192.168.1.91}' /etc/cinder/cinder.conf
sed -i '/^\[keystone_authhtoken\]$/{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 '/^\[oslo_concurrency\]$/{lock_path = /var/lib/cinder/tmp}' /etc/cinder/cinder.conf

```

```

su -s /bin/sh -c "cinder-manage db sync" cinder (34)

```

```

/etc/nova/nova.conf

[cinder]
os_region_name = RegionOne

```

```

sed -i '/^\[cinder\]$/{os_region_name = RegionOne}' /etc/nova/nova.conf

```

```
systemctl restart openstack-nova-api.service  
systemctl enable openstack-cinder-api.service openstack-cinder-scheduler.service  
systemctl restart openstack-cinder-api.service openstack-cinder-scheduler.service
```

---

```
. admin-openrc  
openstack volume service list
```