# Ansible部署ceph集群

## 基础配置

三台环境为centos7.9,以下配置需要在每台机器上执行

#### 配置hosts解析

```
cat >> /etc/hosts <<EOF
192.168.2.23 node1
192.168.2.24 node2
192.168.2.25 node3
EOF</pre>
```

### 关闭防火墙和selinux

```
systemctl stop firewalld && systemctl disable firewalld
setenforce 0 && sed -i 's/SELINUX=enforcing/SELINUX=disabled/g' /etc/selinux/config
```

### 分别在三个节点设置主机名

```
hostnamectl set-hostname node1
hostnamectl set-hostname node2
hostnamectl set-hostname node3
```

### 配置主机时间同步

```
systemctl restart chronyd.service && systemctl enable chronyd.service
```

### 配置免密登录

```
ssh-keygen
ssh-copy-id -i .ssh/id_rsa.pub node1
ssh-copy-id -i .ssh/id_rsa.pub node2
ssh-copy-id -i .ssh/id_rsa.pub node3
```

## 安装pip和ansible、git

```
yum install python-pip ansible git -y
```

# 部署ceph集群

### 克隆存储库

这里我选择安装的是ceph nautilus版本

```
git clone https://github.com/ceph/ceph-ansible.git
cd ceph-ansible
git checkout stable-4.0
```

### 安装ansible依赖包

```
pip install --upgrade pip
pip install -r requirements.txt
```

### 修改hosts文件,添加安装的节点

```
cat >> /etc/ansible/hosts <<EOF</pre>
[mons]
node1
node2
node3
[osds]
node1
node2
node3
[mgrs]
node1
[mdss]
node1
node2
node3
[clients]
node1
node2
node3
[rgws]
node1
node2
node3
[grafana-server]
node1
EOF
```

### 备份group\_vars下的yml文件

```
cd ceph-ansible/group_vars
for file in *;do cp $file ${file%.*};done
```

### 修改group\_vars/all.yml配置

```
dummy:
mon_group_name: mons
osd_group_name: osds
rgw_group_name: rgws
mds_group_name: mdss
client_group_name: clients
mgr_group_name: mgrs
grafana_server_group_name: grafana-server
configure_firewall: False
ceph_origin: repository
ceph_origin: repository
ceph_repository: community
ceph_mirror: http://mirrors.aliyun.com/ceph
ceph_stable_key: http://mirrors.aliyun.com/ceph/keys/release.asc
ceph_stable_release: nautilus
ceph_stable_repo: "{{ ceph_mirror }}/rpm-{{ ceph_stable_release }}"
public_network: "192.168.2.0/24"
cluster_network: "192.168.2.0/24"
monitor_interface: ens33
osd_auto_discovery: true
osd_objectstore: filestore
radosqw_interface: ens33
dashboard_admin_password: asd123456
grafana_admin_password: admin
pg_autoscale_mode: True
```

### 修改group\_vars/osds.yml配置

```
devices:
- /dev/sdb
```

```
# Defines deployment design and assigns role to server groups
 hosts:
  - mons
  osds
  - mdss

    rgws

 #- nfss
 #- rbdmirrors

    clients

 - mgrs
# - iscsigws
 #- iscsi-gws # for backward compatibility only!

    grafana-server

# - rgwloadbalancers
 gather_facts: false
 any_errors_fatal: true
 become: true
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```

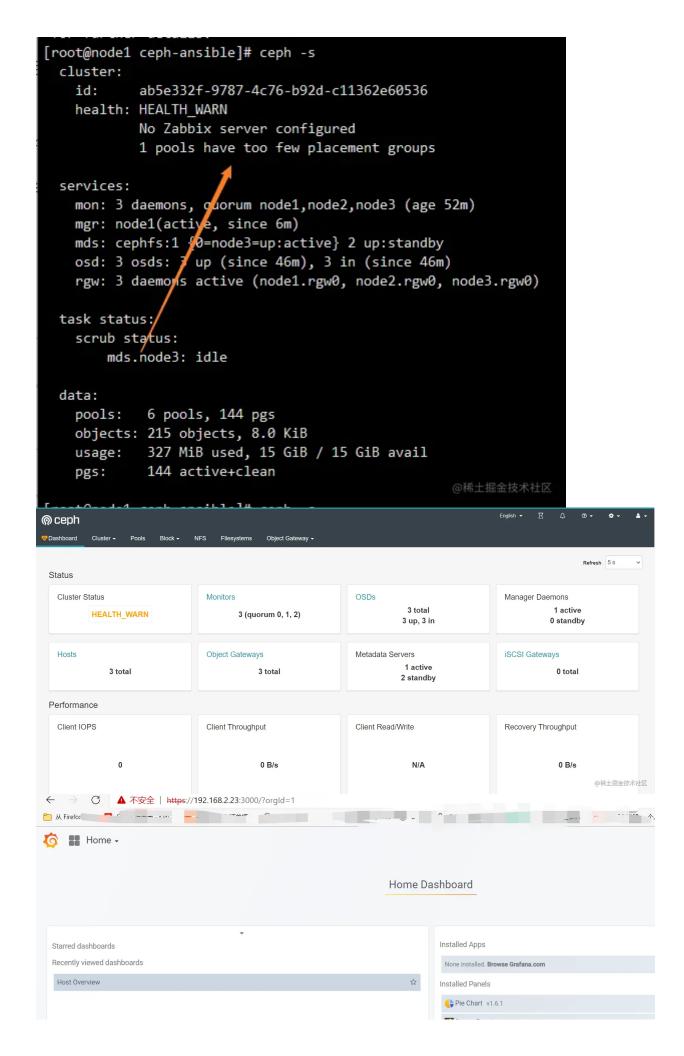
### 开始进行安装

剩下的交给时间吧,十分钟左右就装好了

```
ansible-playbook -i /etc/ansible/hosts site.yml
```

查看安装状态,发现有一个警告,这是因为在之前的all.yml配置没有开启允许自动调整pool中的pg数pg\_autoscale\_mode: False, 手动设置下即可

```
ceph osd pool set <pool-name> pg_autoscale_mode on
```



Installed Datasources

None installed. Browse Grafana.com

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