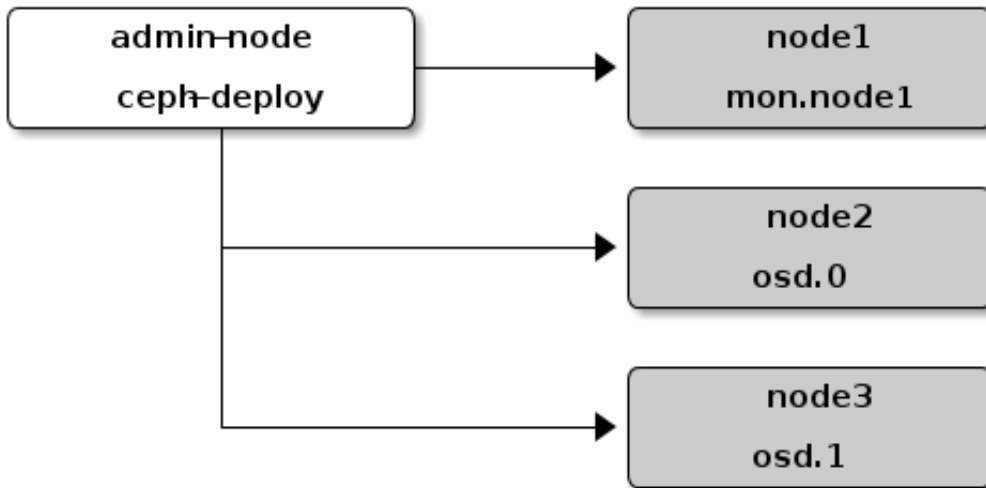


参考：

<http://docs.ceph.org.cn/start/>

<http://www.cnblogs.com/icloud/p/6115447.html>



1.配置epel源，和ceph源

```
1 # 所有节点安装浙大的epel源
2 rpm -Uvh http://ftp.sjtu.edu.cn/fedora/epel/7/x86_64/e/epel-release-7-10.noarch
3
4 # 添加ceph源
5 vi /etc/yum.repos.d/ceph.repo
6
7 [Ceph]
8 name=Ceph packages for $basearch
9 baseurl=http://mirrors.163.com/ceph/rpm-jewel/el7/$basearch
10 enabled=1
11 gpgcheck=1
12 type=rpm-md
13 gpgkey=http://mirrors.163.com/ceph/keys/release.asc
14
15 [Ceph-noarch]
16 name=Ceph noarch packages
```

```
17 baseurl=http://mirrors.163.com/ceph/rpm-jewel/el7/noarch
18 enabled=1
19 gpgcheck=1
20 type=rpm-md
21 gpgkey=http://mirrors.163.com/ceph/keys/release.asc
22
23 [ceph-source]
24 name=Ceph source packages
25 baseurl=http://mirrors.163.com/ceph/rpm-jewel/el7/SRPMS
26 enabled=1
27 gpgcheck=1
28 type=rpm-md
29 gpgkey=http://mirrors.163.com/ceph/keys/release.asc
30
31 # 创建cache
32 yum clean all
33 yum makecache
34
35 # 安装部署工具
36 sudo yum update && sudo yum install ceph-deploy
```

2.ceph节点配置ntpd服务

```
1 #上层授时地址:
2 server ntp1.aliyun.com
3 server ntp2.aliyun.com
4 server ntp3.aliyun.com
5 server ntp4.aliyun.com
6 server ntp5.aliyun.com
7 server ntp6.aliyun.com
8 server ntp7.aliyun.com
9
10 systemctl enable ntpd && systemctl start ntpd
```

3.ceph 节点创建cephnode用户，并且配置sudo权限

```
1 sudo useradd -d /home/cephnode -m cephnode
2 sudo passwd cephnode
3 echo "cephnode ALL = (root) NOPASSWD:ALL" | sudo tee /etc/sudoers.d/cephnode
4 sudo chmod 0440 /etc/sudoers.d/cephnode
5 sudo setenforce 0
```

4.管理节点配置免密登录

```
1 # 注意这里配置的主机名要和/etc/hosts中的一致，不一致的话修改/etc/hostname，之后重启
2 172.24.10.16 node1
3 172.24.10.5 node2
4 172.24.10.25 node3
5
6 ssh-keygen
7 ssh-copy-id cephnode@node1 && ssh-copy-id cephnode@node2 && ssh-copy-id cephnod
8
9 # 配置ssh的别名
10 vi ~/.ssh/config
11
12 Host node1
13     Hostname node1
14     User cephnode
15 Host node2
16     Hostname node2
17     User cephnode
18 Host node3
19     Hostname node3
20     User cephnode
```

5.在deploy节点创建工作目录

```
1 mkdir my-cluster
2 cd my-cluster
```

6.创建集群

```
1 # 导入控制节点环境变量
2 export CEPH_DEPLOY_REPO_URL=http://mirrors.163.com/ceph/rpm-jewel/el7
3 export CEPH_DEPLOY_GPG_URL=http://mirrors.163.com/ceph/keys/release.asc
```

```
1 # 初始化moniter
2 ceph-deploy new {initial-monitor-node(s)} --> ceph-deploy --username cephnode n
3 # 把 Ceph 配置文件里的默认副本数从 3 改成 2 ,修改my-cluster/ceph.conf文件
4 osd pool default size = 2 (添加)
5 # 限制文件名的长度
6 osd max object name len = 256 (添加)
7 osd max object namespace len = 64 (添加)
8 # 安装Ceph
9 ceph-deploy install localhost node1 node2 node3
10 # 配置初始 monitor(s)、并收集所有密钥:
11 ceph-deploy mon create-initial
```

7.添加osd

```
1 # 在osd节点添加文件夹作为存储
2 ssh node2
3 sudo mkdir /var/local/osd0
4 sudo chown ceph:ceph /var/local/osd0
5 exit
6 ssh node3
7 sudo mkdir /var/local/osd1
8 sudo chown ceph:ceph /var/local/osd0
9 exit
10 # 准备osd
11 ceph-deploy osd prepare {ceph-node}:/path/to/directory
12 # 激活 OSD
13 ceph-deploy osd activate {ceph-node}:/path/to/directory
```

```
14 # 用 ceph-deploy 把配置文件和 admin 密钥拷贝到管理节点和 Ceph 节点，这样你每次执行 C
15 ceph-deploy admin {admin-node} {ceph-node}
16 # 检查集群的健康状况。
17 ceph health
```

安装客户端：

```
1 # 登录ceph-deploy配置client机器的hosts名以及免密登录
2 echo "<client_ip> <client_hostname>" >> /etc/hosts
3 ssh-copy-id vmclient1
4 # client节点安装epel源
5 # 登录deploy节点安装client
6 ceph-deploy install vmclient1
7 # 下发配置文件和key到client节点
8 ceph-deploy admin vmclient1
```

重新部署

```
1 # 如果在某些地方碰到麻烦，想从头再来，可以用下列命令清除配置：
2 ceph-deploy purgedata localhost node1 node2 node3
3 ceph-deploy forgetkeys
4 # 用下列命令可以连 Ceph 安装包一起清除：
5 ceph-deploy purge {ceph-node} [{ceph-node}]
6 # 配置初始 monitor(s)、并收集所有密钥
7 ceph-deploy mon create-initial
```

