搭建etcd集群
选择本次机器编号 141 148 146

关闭防火墙，禁止开机启动
systemctl stop firewalld.service
systemctl disable firewalld.service

打开外网2379端口，内网2380端口（同时配置阿里云防火墙控制台）

安装etcd
yum install etcd -y
etcd.x86_64 0:3.3.11-2.el7.centos
配置etcd版本
vim /etc/profile
export ETCDCTL_API=3
source /etc/profile
清理etcd目录文件
rm -rf /var/lib/etcd/default.etcd/*

本次部署集群采用静态发现（预先配置）
节点名称 ip
master 10.0.0.148 对外开放2379,内网开放2380
node1 10.0.0.141 对外开放2379,内网开放2380
node2 10.0.0.146 对外开放2379,内网开放2380
etcd 集群配置
vim /etc/etcd/etcd.conf

master节点ectd 配置

```
#[Member]
ETCD_DATA_DIR="/var/lib/etcd/default.etcd"
ETCD_LISTEN_PEER_URLS="http://0.0.0.0:2380"
ETCD_LISTEN_CLIENT_URLS="http://0.0.0.0:2379"
ETCD_NAME="master"
#
#[Clustering]
ETCD_INITIAL_ADVERTISE_PEER_URLS="http://10.0.0.148:2380"
ETCD_ADVERTISE_CLIENT_URLS="http://10.0.0.148:2379"
 ETCD_INITIAL_CLUSTER="master=http://10.0.0.148:2380,node1=http://10.0.0.141:2380,node2=http://10.0.
 ETCD_INITIAL_CLUSTER_TOKEN="etcd-cluster"
 ETCD_INITIAL_CLUSTER_STATE="new"
```

node1节点配置

```
#[Member]
ETCD_DATA_DIR="/var/lib/etcd/default.etcd"
ETCD_LISTEN_PEER_URLS="http://0.0.0.0:2380"
ETCD_LISTEN_CLIENT_URLS="http://0.0.0.0:2379"
ETCD_NAME="node1"
#
#[Clustering]
```

```
ETCD_INITIAL_ADVERTISE_PEER_URLS="http://10.0.0.141:2380"
ETCD_ADVERTISE_CLIENT_URLS="http://10.0.0.141:2379"
ETCD_INITIAL_CLUSTER="master=http://10.0.0.148:2380,node1=http://10.0.0.141:2380,node2=http://10.0.
ETCD_INITIAL_CLUSTER_TOKEN="etcd-cluster"
ETCD_INITIAL_CLUSTER_STATE="new"
```

node2节点配置

```
#[Member]
ETCD_DATA_DIR="/var/lib/etcd/default.etcd"
ETCD_LISTEN_PEER_URLS="http://0.0.0.0:2380"
ETCD_LISTEN_CLIENT_URLS="http://0.0.0.0:2379"
ETCD_NAME="node2"
#
#[Clustering]
ETCD_INITIAL_ADVERTISE_PEER_URLS="http://10.0.0.146:2380"
ETCD_ADVERTISE_CLIENT_URLS="http://10.0.0.146:2379"
ETCD_INITIAL_CLUSTER="master=http://10.0.0.148:2380,node1=http://10.0.0.141:2380,node2=http://10.0.
ETCD_INITIAL_CLUSTER_TOKEN="etcd-cluster"
ETCD_INITIAL_CLUSTER_STATE="new"
```

每台机器上启动etcd

systemctl start etcd

systemctl enable etcd

查看集群成员信息

etcdctl member list

查看当前节点状态

v3 etcdctl --write-out=table endpoint status

v2 etcdctl cluster-health

查看集群状态

etcdctl --write-out=table --endpoints=10.211.55.4:2379,10.211.55.7:2379,10.211.55.8:2379 endpoint status

```
+--------------------+------------------+---------+---------+-----------+-----------+------------+
|     ENDPOINT       |        ID        | VERSION | DB SIZE | IS LEADER | RAFT TERM | RAFT INDEX |
+--------------------+------------------+---------+---------+-----------+-----------+------------+
| 10.10.10.10:2379 | 2d7cf5f6dba3701b |  3.3.11 |   20 kB |     false |       51 |        14 |
|  10.10.10.10:2379 | 82728d7983f11483 |  3.3.11 |   20 kB |     false |       51 |        14 |
|  10.10.10.10:2379 | 219e420ad76edca4 |  3.3.11 |   20 kB |      true |       51 |        14 |
+--------------------+------------------+---------+---------+-----------+-----------+------------+
```

集群检查检查

etcdctl --write-out=table --endpoints=10.211.55.4:2379,10.211.55.7:2379,10.211.55.8:2379 endpoint health

10.10.10.10:2379 is healthy: successfully committed proposal: took = 2.663904ms

10.10.10.10:2379 is healthy: successfully committed proposal: took = 2.615449ms

10.10.10.10:2379 is healthy: successfully committed proposal: took = 2.651264ms

在master上执行

etcdctl put hello yangq
etcdctl get hello
在其他节点上执行
etcdctl get hello

在任意副本节点指向
etcdctl put world qiangy
etcdctl get world
在其他节点执行
etcdctl get world

使用部署：
export ETCDCTL_API=3
export ETCDV3_SERVER_URL=http://10.211.55.4:2379,http://10.211.55.7:2379,http://10.211.55.8:2379

部署参考
https://etcd.io/docs/v3.1.12/demo/