

node节点添加说明

1、安装依赖软件

```
$ sudo yum install ebtables ethtool iproute iptables socat util-linux wget  
vim -y  
# NFS  
$ yum install -y nfs-utils rpcbind
```

2、安装docker 17.03.0-ce

```
$ sudo wget -O -  
https://raw.githubusercontent.com/cherryleo/scripts/master/centos7-install  
-docker.sh | sudo sh
```

3、关闭swap

```
$ swapoff -a
```

4、关闭防火墙

```
$ systemctl stop firewalld
```

5、配置host文件

```
$ cat /etc/hosts
127.0.0.1    localhost localhost.localdomain localhost4
localhost4.localhostdomain4
::1         localhost localhost.localdomain localhost6
localhost6.localhostdomain6
10.22.60.25  ODCBSCHAR01
10.22.60.26  ODCBSCK8S01
10.22.60.170 ODCK8SNO101
10.22.60.171 ODCK8SNO102
10.22.60.172 ODCK8SNO103
10.22.60.173 ODCK8SNO104
10.22.60.174 ODCK8SNO105
10.22.60.175 ODCK8SNO106
10.22.60.176 ODCK8SNO107
```

6、修改主机名

```
$ hostnamectl set-hostname ODCBSCHAR01
```

7、修改配置文件

```
$ vim /etc/systemd/system/kubelet.service.d/10-kubeadm.conf
[Service]
Environment="KUBELET_KUBECONFIG_ARGS=--bootstrap-kubeconfig=/etc/kubernetes/
bootstrap-kubelet.conf --kubeconfig=/etc/kubernetes/kubelet.conf"
Environment="KUBELET_SYSTEM_PODS_ARGS=--pod-manifest-path=/etc/kubernetes/
manifests --allow-privileged=true"
Environment="KUBELET_NETWORK_ARGS=--network-plugin=cni
--cni-conf-dir=/etc/cni/net.d --cni-bin-dir=/opt/cni/bin"
Environment="KUBELET_DNS_ARGS=--cluster-dns=10.96.0.10
--cluster-domain=cluster.local"
Environment="KUBELET_AUTHZ_ARGS=--authorization-mode=Webhook
--client-ca-file=/etc/kubernetes/pki/ca.crt"
# Value should match Docker daemon settings.
# Defaults are "cgroupfs" for Debian/Ubuntu/OpenSUSE and "systemd" for
Fedora/CentOS/RHEL
Environment="KUBELET_CGROUP_ARGS=--cgroup-driver=cgroupfs"
Environment="KUBELET_CADVISOR_ARGS=--cadvisor-port=0"
Environment="KUBELET_CERTIFICATE_ARGS=--rotate-certificates=true"
Environment="KUBE_PAUSE=--pod-infra-container-image=10.22.60.25/kubernetes
/pause-amd64:3.0"
ExecStart=
ExecStart=/usr/bin/kubelet $KUBELET_KUBECONFIG_ARGS
$KUBELET_SYSTEM_PODS_ARGS $KUBELET_NETWORK_ARGS $KUBELET_DNS_ARGS
$KUBELET_AUTHZ_ARGS $KUBELET_CGROUP_ARGS $KUBELET_CADVISOR_ARGS
$KUBELET_CERTIFICATE_ARGS $KUBE_PAUSE $KUBELET_EXTRA_ARGS
```

8、创建/挂载分区

```
$ fdisk /dev/sd
sda  sda1  sda2  sdb  sdb1
$ fdisk /dev/sdb
Welcome to fdisk (util-linux 2.23.2).

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): m  # m
Command action
  a  toggle a bootable flag
  b  edit bsd disklabel
  c  toggle the dos compatibility flag
  d  delete a partition
  g  create a new empty GPT partition table
  G  create an IRIX (SGI) partition table
  l  list known partition types
  m  print this menu
  n  add a new partition
  o  create a new empty DOS partition table
  p  print the partition table
  q  quit without saving changes
  s  create a new empty Sun disklabel
  t  change a partition's system id
  u  change display/entry units
  v  verify the partition table
  w  write table to disk and exit
  x  extra functionality (experts only)

Command (m for help):
n
Partition type:
  p  primary (1 primary, 0 extended, 3 free)
  e  extended
Select (default p): p
.....
.....

$ mkfs.ext4 /dev/sdb1
$ mkdir /data
$ mount /dev/sdb1 /data
$ cat /etc/fstab      ##
#
# /etc/fstab
# Created by anaconda on Wed Aug 29 17:54:01 2018
#
# Accessible filesystems, by reference, are maintained under '/dev/disk'
```

```
# See man pages fstab(5), findfs(8), mount(8) and/or blkid(8) for more info
#
/dev/mapper/centos-root          /                                xfs      defaults
0 0
UUID=96520783-a56d-487e-b2db-61a8ee0f2479 /boot                          xfs
defaults                        0 0
#/dev/mapper/centos-swap        swap                            swap      defaults
0 0  ## swap
/dev/sdb1                      /data                          ext4      defaults      0 0
##
```

docker

1docker

```
$ mkdir /data/docker
```

```
$ cd /data/docker
```

2docker

```
$ vi /etc/docker/daemon.json
```

```
{
"graph": "/data/docker"
}
```

3docker

```
$ mkdir /data/docker/
```

```
$ cp -rf /var/lib/docker/* /data/docker/
```

4docker

```
$ systemctl restart docker
```

9、添加CA证书

```
$ cd /etc/pki/ca-trust/source/anchors/  
$ scp 10.22.60.25:/data/cert/ca.crt .  
$ update-ca-trust  
$ systemctl restart docker  
$ docker login -u admin -p Harbor12345 10.22.60.25 ##  
Login Succeeded
```

10、添加节点

```
$ kubeadm join 10.22.60.26:6443 --token 9oe865.2mhtpyfb0nvlrjx7  
--discovery-token-ca-cert-hash  
sha256:6d24f1d0423a766dc959663b0ddlabae8762278cc164d52ce586b0f3fa22fc48
```