K8S INSTALL

Network Basic Config

Kub master Ext IP address 52.30.171.219
Kub master Int IP address 172.31.117.148
Node-1 ext 34.242.38.81
Node-1 int 172.31.116.128
Node-2 ext 63.33.70.210
Node-2 int 172.31.119.176

/etc/hosts

172.31.117.148 master.example.com 172.31.116.128 node-1.example.com 172.31.119.176 node-2.example.com

自定义hosts,并在各机器相互可以解析ping通

更新安装必要工具

yum -y install epel-release yum -y update yum -y install wget vim curl net-tools yum -y install yum-utils device-mapper-persistent-data lvm2 yum -y install ntp

同步时间

ntpdate -u asia.pool.ntp.org

关闭swap swapoff -a vim /etc/fstab #检查 # /root/swap

关闭 selinux vim /etc/selinux/config #SELINUX=disabled setenforce 0 getenforce

关闭防火墙 systemctl stop firewalld systemctl disable firewalld

k8s网络桥接配置修改

```
vim /etc/sysctl.d/k8s.conf
net.bridge.bridge-nf-call-ip6tables = 1
net.bridge.bridge-nf-call-iptables = 1
sysctl --system
添加源并安装docker
yum-config-manager --add-repo https://download.docker.com/linux/centos/docker-ce.repo
yum -y install docker-ce
systemctl enable docker
systemctl start docker
添加kubernetes的google 源
vim /etc/yum.repos.d/kubernetes.repo
#
[kubernetes]
name=kubernetes
baseurl=https://packages.cloud.google.com/yum/repos/kubernetes-el7-x86_64
enablec1
gpgcheck=1
repo_gpgcheck=1
gpgkey= https://packages.cloud.google.com/yum/doc/yum-key.gpg
    https://packages.cloud.google.com/yum/doc/rpm-package-key.gpg
exclude=kube*
cat <<EOF > /etc/yum.repos.d/kubernetes.repo
[kubernetes]
name=Kubernetes
baseurl=https://mirrors.aliyun.com/kubernetes/yum/repos/kubernetes-el7-x86_64/
enabled=1
apacheck=1
repo_gpgcheck=1
gpgkey=https://mirrors.aliyun.com/kubernetes/yum/doc/yum-key.gpg
https://mirrors.aliyun.com/kubernetes/yum/doc/rpm-package-key.gpg
EOF
安装kubernetes
yum -y install kubelet kubeadm kubectl --disableexcludes=kubernetes
systemctl enable --now kubelet
systemctl start kubelet
```

启动Master节点

kubeadm init --apiserver-advertise-address=10.0.0.60 --pod-network-cidr=10.244.0.0/16 --apiserver-cert-extra-sans=stage.tooc.in

单节点, 让 master 运行 pod

kubectl taint nodes ali-hk-c-0 --all node-role.kubernetes.io/master-

启动 flannel 网络

wget https://raw.githubusercontent.com/coreos/flannel/master/Documentation/kube-flannel.yml

kubectl apply -f kube-flannel.yml

测试DNS

kubectl apply -f https://k8s.io/examples/admin/dns/busybox.yaml kubectl exec -ti busybox -- nslookup kubernetes.default

通过gitlab 安装 helm 和 runner

启动前,授权

kubectl create clusterrolebinding serviceaccounts-cluster-admin \

- --clusterrole=cluster-admin \
- --group=system:serviceaccounts

忘记 token 后加入集群的办法

kubeadm token create --ttl 0

[root@master ~]# kubeadm token create

TOKEN TTL EXPIRES USAGES DESCRIPTION EXTRA

GROUPS

qbyhi6.p8zg6r3eir4xqqmn 23h 2018-11-16T16:37:19+08:00 authentication, signing <none> system:bootstrappers:kubeadm:default-node-token

[root@master \sim]# openssl x509 -pubkey -in /etc/kubernetes/pki/ca.crt | openssl rsa -pubin - outform der 2>/dev/null | openssl dgst -sha256 -hex | sed 's/^* //'

dfc5b832302e76b277ca2bf79ba86d43d5337d15b3abdaf90be052ad58f0f2a9

kubeadm join --token qbyhi6.p8zg6r3eir4xqqmn --discovery-token-ca-cert-hash sha256:dfc5b832302e76b277ca2bf79ba86d43d5337d15b3abdaf90be052ad58f0f2a9 192.168.0.101:6443

安装 dashboard

wget

https://raw.githubusercontent.com/kubernetes/dashboard/v1.10.1/src/deploy/recommended/k ubernetes-dashboard.yaml

修改文件 apiVersion: v1 kind: Service metadata: labels: k8s-app: kubernetes-dashboard name: kubernetes-dashboard namespace: kube-system spec: clusterIP: 10.97.14.63 externalTrafficPolicy: Cluster ports: - nodePort: 30443 port: 443 protocol: TCP targetPort: 8443 selector:

k8s-app: kubernetes-dashboard

sessionAffinity: None

type: NodePort

status:

loadBalancer: {}

私有化集群负载均衡器

kubectl apply -f

https://raw.githubusercontent.com/google/metallb/v0.8.1/manifests/metallb.yaml