K8S HA Deploy via kubeadm

Letting iptables see bridged traffic:

cat <<EOF | sudo tee /etc/modules-load.d/k8s.conf

br\_netfilter

EOF

cat <<EOF | sudo tee /etc/sysctl.d/k8s.conf

net.bridge.bridge-nf-call-ip6tables = 1

net.bridge.bridge-nf-call-iptables = 1

EOF

sudo sysctl --system

Shutdown swap:

sudo swapoff -a

vi /etc/fstab (sudo sed -i '/ swap / s/^\(.\*\)$/#\1/g' /etc/fstab)

Shutdown SELINUX

sudo setenforce 0

vim /etc/selinux/config

SELINUX=disabled

Shutdown Firefall

sudo systemctl stop firewalld

sudo systemctl disable firewalld

sudo iptables -F && sudo iptables -X && sudo iptables -F -t nat && sudo iptables -X -t nat

sudo iptables -P FORWARD ACCEPT

Install Docker

<https://docs.docker.com/engine/install/#server>

Installing kubeadm, kubelet and kubectl

sudo apt-get update

sudo apt-get install -y apt-transport-https ca-certificates curl

sudo curl -fsSLo /usr/share/keyrings/kubernetes-archive-keyring.gpg https://packages.cloud.google.com/apt/doc/apt-key.gpg

echo "deb [signed-by=/usr/share/keyrings/kubernetes-archive-keyring.gpg] https://apt.kubernetes.io/ kubernetes-xenial main" | sudo tee /etc/apt/sources.list.d/kubernetes.list

sudo apt-get update

sudo apt-get install -y kubelet kubeadm kubectl

sudo apt-mark hold kubelet kubeadm kubectl

查看kubelet版本：

kubelet --version

Initializing

kubeadm init <args> --apiserver-advertise-address=<ip-address>

加入node的指令24小时候会过期，可以使用：

kubeadm token create --print-join-command 重新生成相关指令或参考

https://www.cnblogs.com/hongdada/p/9854696.html

CNI Plugin (Weave)

kubectl apply -f "https://cloud.weave.works/k8s/net?k8s-version=**$(**kubectl version | base64 | tr -d '\n'**)**"

Others:

1. 设置docker cgroup 为systemd  
   vi /etc/docker/daemon.json

{

"exec-opts":["native.cgroupdriver=systemd"]

}

systemctl daemon-reload

systemctl restart docker

systemctl status docker

1. 设置/etc/hosts

192.168.0.216 ecs-ed9b-0001.novalocal

192.168.0.147 ecs-ed9b-0002.novalocal

192.168.0.39 ecs-ed9b-0003.novalocal

192.168.1.254 ecs-d842-0001.novalocal

192.168.1.178 ecs-d842-0002.novalocal

192.168.1.9 ecs-d842-0003.novalocal

1. 设置proxy

vim /etc/systemd/system/docker.service.d/http-proxy.conf

[Service]

Environment="HTTP\_PROXY=http://10.250.94.98:3128" "HTTPS\_PROXY=http://10.250.94.98:3128" "NO\_PROXY=127.0.0.0/8,192.168.0.0/16,172.16.0.0/12,10.96.0.0/12"

1. 初始化集群

kubeadm init --control-plane-endpoint "LBIP" --apiserver-advertise-address=192.168.0.216 --upload-certs

1. 命令补全

yum install -y bash-completion

source <(kubectl completion bash)

1. 设置node roles

kubectl label nodes <node name> kubernetes.io/role=<label>

node-role.kubernetes.io/control-plane: ""

1. 删除Taint

kubectl taint nodes rhel-8-11.8 node-role.kubernetes.io/master-

1. Worker Node 加入集群

kubeadm token create --print-join-command

9.

http\_proxy=http://10.250.94.98:3128

https\_proxy=http://10.250.94.98:3128

no\_proxy=127.0.0.0/8,192.168.0.0/16,172.16.0.0/12,10.96.0.0/12

export http\_proxy

export https\_proxy

export no\_proxy