

部署k8s-v1.20.15

环境准备

- 部署kube-vip <https://io.vhm.com/book/books/k8s/page/kube-vipk8s>
- 部署keepalived <https://io.vhm.com/book/books/42e7a/page/docker-composekeepalived>

kube-vip部署keepalived IP 192.168.5.10

部署

```
# 环境准备

hostnamectl set-hostname 5-10.vpclub.io

# 配置hosts192.168.5.10 master192.168.5.10 kube-api-server

vi /etc/hosts
192.168.5.10 5-10.vpclub.io
192.168.5.10 kube-api-server

# 部署k8s
# k8s 部署 https://dl.k8s.io/release/stable.txt
# 部署googlecloud
# curl -LO "https://dl.k8s.io/release/$(curl -L -s https://dl.k8s.io/release/stable.txt)/bin/linux/amd64/kubectl"

# 部署k8s

wget qq829.cn/uploads/software/k8s/v1.20.15/kubeadm
wget qq829.cn/uploads/software/k8s/v1.20.15/kubelet
wget qq829.cn/uploads/software/k8s/v1.20.15/kubectl

# docker-compose
```

```
wget qq829.cn/uploads/software/k8s/docker-compose
```

```
# 创建目录
```

```
wget qq829.cn/uploads/software/k8s/v1.20.15/10-kubeadm.conf
```

```
wget qq829.cn/uploads/software/k8s/v1.20.15/kubelet.service
```

```
# 安装
```

```
wget qq829.cn/uploads/software/k8s/v1.20.15/calico.yaml
```

```
wget qq829.cn/uploads/software/k8s/v1.20.15/traefik-ingress.tar
```

```
# 配置cni
```

```
wget qq829.cn/uploads/software/k8s/v1.20.15/calico-image-vp-whdev.yaml
```

```
# 创建目录并安装到/usr/local/bin
```

```
chmod 777 kubeadm kubelet kubectl docker-compose
```

```
cp kubeadm kubelet kubectl docker-compose /usr/local/bin
```

```
# 安装 socat 和 conntrack
```

```
yum install -y socat
```

```
yum install -y conntrack
```

```
# 安装 docker 并配置
```

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

```
{  
    "graph": "/data/docker",  
    "exec-opts": ["native.cgroupdriver=systemd"]  
}
```

```
# 安装 kubelet
```

```
# 配置 kubelet
```

```
cp kubelet.service /usr/lib/systemd/system/kubelet.service
mkdir -p /etc/systemd/system/kubelet.service.d
cp 10-kubeadm.conf /etc/systemd/system/kubelet.service.d

# 配置kubelet 配置
systemctl enable kubelet.service
systemctl status kubelet
```

配置master节点

```
# 配置kubeadm 配置
# 1.24.0 配置docker
# 配置apiserver 配置kube-api-server: 6443

kubeadm init --control-plane-endpoint "kube-api-server:6443" --image-repository
registry.aliyuncs.com/google_containers --upload-certs --kubernetes-version v1.20.15 --pod-
network-cidr 10.244.0.0/16 --v 5

# 配置master 配置
echo "$(kubeadm token create --print-join-command) --control-plane --certificate-key $(kubeadm
init phase upload-certs --upload-certs | tail -1)"

# 配置node 配置

kubeadm token create --print-join-command
```

配置master节点<https://ioyhm.com/book/books/k8s/page/k8s-ZsW>

```
# 配置
kubeadm init --image-repository registry.aliyuncs.com/google_containers --apiserver-
advertise-address 192.168.5.10 --kubernetes-version v1.20.15 --pod-network-cidr
10.244.0.0/16 --v 5

# 配置
kubeadm reset
```

```
# 配置ipvs
# 40s , 每隔54s mode: "ipvs"
kubectl edit cm -n kube-system kube-proxy

# 配置cni

kubectl apply -f calico.yaml
```

部署ingress-controller

traefik-ingress ~~nginx-ingress~~

```
# 部署nginx-ingress
wget qq829.cn/uploads/software/k8s/v1.20.15/nginx-ingress/nginx-ingress.yaml

kubectl apply -f nginx-ingress.yaml
```

```
# 部署traefik-controller

kubectl apply -f 00-account.yaml -n kube-system
kubectl apply -f 01-role.yaml -n kube-system
kubectl apply -f 02-role-binding.yaml -n kube-system
kubectl apply -f 03-traefik.yaml -n kube-system
kubectl apply -f 04-traefik-services.yaml -n kube-system
kubectl apply -f 05-traefik-default-tls.yaml -n kube-system

# 生成token
# 生成token
# kubeadm token create --print-join-command
```

k8s <https://lovym.com/book/books/k8s/page/k3srancher>

部署



```
# [][] []  
# vi /var/lib/kubelet/kubeadm-flags.env  
# --max-pods=50  
  
# pod ping  
# kubectl edit cm -n kube-system kube-proxy  
# 40mode:"ipvs"  
# []k8s []  
  
k8s pod ping []kube-proxy []ipvs []iptables []kube-proxy  
  
# {} controller-manager {}  
# {} scheduler {}  
# {}  
vi /etc/kubernetes/manIFESTS/kube-controller-manager.yaml  
vi /etc/kubernetes/manIFESTS/kube-scheduler.yaml  
# {} --port=0  
  
# calico-node [] calico/node is not ready: BIRD is not ready: BGP not established  
# calico-node []  
# [], eth0 []  
IP_AUTODETECTION_METHOD = interface=eth0  
  
# [] IP []  
IP_AUTODETECTION_METHO    = can-reach=192.168.0.254  
  
# traefik-ingress []  
# traefik [] ingressendpoint.hostname [] ingressendpoint.hostname []  
# [] --providers.kubernetesingress.ingressendpoint.publishedService  
  
--providers.kubernetesingress.ingressendpoint.hostname=park.vpclub.io  
--providers.kubernetesingress.ingressendpoint.ip=0.0.0.0
```

```
# calico-kube-controllers []
# []Failed to write status error=open /status/status.json: permission denied
# []
# []/var/run/calico/status [] 777[] /status
# []

# load balance L4 [] pedding
# load balance []k8s[] nodeport [] hostport
# []traefik []DaemonSet [] host[]

# []kube-proxy[]coredns[]
kubeadm init phase addon kube-proxy --kubeconfig ~/.kube/config --control-plane-endpoint
"kube-api-server:6443" --image-repository registry.aliyuncs.com/google_containers --
kubernetes-version v1.28.0 --pod-network-cidr 10.244.0.0/16
```

[] #42

[] [] 21 [] 2023 04:58:11

[] [] 16 [] 2025 15:29:15