证书可用时限

1、go 环境部署

wget https://dl.google.com/go/go1.12.7.linux-amd64.tar.gz

tar -zxvf go1.12.1.linux-amd64.tar.gz -C /usr/local

vi /etc/profile

export PATH=$PATH:/usr/local/go/bin

source /etc/profile

2、下载源码

cd /data && git clone https://github.com/kubernetes/kubernetes.git git checkout -b remotes/origin/release-1.15.1 v1.15.1

3、修改 Kubeadm 源码包更新证书策略

vim staging/src/k8s.io/client-go/util/cert/cert.go # kubeadm 1.14 版本之前 vim cmd/kubeadm/app/util/pkiutil/pki\_helpers.go # kubeadm 1.14 至今 const duration365d = time.Hour \* 24 \* 365

NotAfter: time.Now().Add(duration365d).UTC(),

make WHAT=cmd/kubeadm GOFLAGS=-v

cp \_output/bin/kubeadm /root/kubeadm-new

4、更新 kubeadm

# 将 kubeadm 进行替换

cp /usr/bin/kubeadm /usr/bin/kubeadm.old

cp /root/kubeadm-new /usr/bin/kubeadm

chmod a+x /usr/bin/kubeadm

5、更新各节点证书至 Master 节点

cp -r /etc/kubernetes/pki /etc/kubernetes/pki.old

cd /etc/kubernetes/pki

kubeadm alpha certs renew all --config=/root/kubeadm-config.yaml openssl x509 -in apiserver.crt -text -noout | grep Not

6、HA集群其余 mater 节点证书更新

#!/bin/bash

masterNode="192.168.66.20 192.168.66.21"

#for host in ${masterNode}; do

# scp /etc/kubernetes/pki/{ca.crt,ca.key,sa.key,sa.pub,front-proxy-ca.crt,front-proxy-ca.key} "${USER}"@$host:/etc/kubernetes/pki/

# scp /etc/kubernetes/pki/etcd/{ca.crt,ca.key} "root"@$host:/etc/kubernetes/pki/etcd # scp /etc/kubernetes/admin.conf "root"@$host:/etc/kubernetes/

#done

for host in ${CONTROL\_PLANE\_IPS}; do

scp /etc/kubernetes/pki/{ca.crt,ca.key,sa.key,sa.pub,front-proxy-ca.crt,front-proxy-ca.key} "${USER}"@$host:/root/pki/

scp /etc/kubernetes/pki/etcd/{ca.crt,ca.key} "root"@$host:/root/etcd

scp /etc/kubernetes/admin.conf "root"@$host:/root/kubernetes/

done