ca证书存放目录：/etc/kubernetes/ssl/

下载cfssl工具集

wget https://pkg.cfssl.org/R1.2/cfssl\_linux-amd64

wget https://pkg.cfssl.org/R1.2/cfssljson\_linux-amd64

wget https://pkg.cfssl.org/R1.2/cfssl-certinfo\_linux-amd64

mv cfssl\_linux-amd64 /usr/bin/cfssl

mv cfssl-certinfo\_linux-amd64 /usr/bin/cfssljson

mv cfssl-certinfo\_linux-amd64 /usr/bin/cfssl-certinfo

chmod +x /usr/bin/{cfssl,cfssljson,cfssl-certinfo}

创建所需目录

mkdir -p /usr/local/src/ssl/ /etc/kubernetes/ssl/

创建ca证书配置文件，ca证书是集群所有节点共享的，只需要创建一个ca证书，后续创建的所有证书都由它签名。

cd /usr/local/src/ssl/

cat > ca-config.json <<EOF

{

"signing": {

"default": {

"expiry": "8760h"

},

"profiles": {

"kubernetes": {

"usages": ["signing",

"key encipherment",

"server auth",

"client auth"],

"expiry": "8760h"

}

}

}

}

EOF

创建ca证书签名请求

cat > ca-csr.json <<EOF

{

"CN": "kubernetes",

"key": {

"algo": "rsa",

"size": 2048

},

"names": [{

"C": "CN",

"ST": "BeiJing",

"L": "BeiJing",

"OU": "System"

}]

}

EOF

生成ca证书和私钥

cd /usr/local/src/ssl/

cfssl gencert -initca ca-csr.json | cfssljson -bare ca

将ca证书和私钥存放到指定目录

cp ca.pem ca-key.pem ca-config.json /etc/kubernetes/ssl/