#Create KEY and CRT Using Following Commands"

#openssl req -x509 -newkey rsa:4096 -sha256 -nodes -keyout tls.key -out tls.crt -subj "/CN=sreek8s.xyz" -days 365

#Create K8S Secret using Above Cert and Key

#kubectl -n kubernetes-dashboard create secret tls tls-sreek8s-xyz --cert=tls.crt --key=tls.key

#Create Deployment with ClusterIP

#ku run deploy01 --image=sreeharshav/testcontainer:v1 --replicas 3

#Expose the above deployment

#ku expose deploy deploy01 --port=8000 --target-port=80

#Create Ingress Controller

#kubectl apply -f https://raw.githubusercontent.com/kubernetes/ingress-nginx/controller-0.32.0/deploy/static/provider/aws/deploy.yaml

#Create below ingress and check the website from the browser to find SSL Ceetificate

apiVersion: extensions/v1beta1

kind: Ingress

metadata:

name: example-ingress

namespace: kubernetes-dashboard

annotations:

ingress.kubernetes.io/rewrite-target: /

spec:

tls:

- hosts:

- www.sreek8s.xyz

secretName: tls-sreek8s-xyz

rules:

- host: www.sreek8s.xyz

http:

paths:

- path: /

backend:

serviceName: deploy01

servicePort: 8000

**KUBERNETES TLS CONFIG:**

#Create Public and Private Keys

#Creating Secret for CRT and KEY

kubectl create secret tls tls-awscoffeeshop-xyz --cert=tls.crt --key=tls.key

#Deploy NGINX Controller

kubectl apply -f https://raw.githubusercontent.com/kubernetes/ingress-nginx/controller-0.32.0/deploy/static/provider/aws/deploy.yaml

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#Deployment for TLS Checking

apiVersion: apps/v1

kind: Deployment

metadata:

labels:

run: tlschecking

name: tlschecking

spec:

replicas: 3

selector:

matchLabels:

run: tlschecking

template:

metadata:

labels:

run: tlschecking

spec:

containers:

- image: sreeharshav/testcontainer:v1

name: tlschecking

---

#INGRESS CONFIG FOR ABOVE DEPLOYMENT.

#TLS SECRETS NEEDS TO BE CREATED PRIOR TO THIS

apiVersion: extensions/v1beta1

kind: Ingress

metadata:

name: my-webapp-ingress-https

annotations:

ingress.kubernetes.io/rewrite-target: /

spec:

tls:

- hosts:

- www.awscoffeeshop.xyz

secretName: tls-awscoffeeshop-xyz

rules:

- host: www.awscoffeeshop.xyz

http:

paths:

- path: /

backend:

serviceName: tlschecking

servicePort: 80