Commands
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Create Docker file take it from abhishek or any public image.

1. Create Deployment.yml : we can change labels and selectors and templates name. Keep it same. Give docker image name which u have created.

2. Create service.yml : Get the app name from deployment file only inside template. app: sample-python-app and change node port same given in deployment file .
We can give type: Loadbalancer here itself.

3. Create ingress.yml: give host domain name and service name as same

4. Create ingress-tls.yml: give hosts domain name and in secrets we need to create secret to make for Https.

Kubectl apply -f Deployment.yml and service.yml , ingress.yml and ingress-tls.yml

Kubectl get svc : To We can see of its a load bar or cluster based on our requirements.

Docker image public : cmilanf/docker-snake. 3000 port

Kubectl get ing : ingress.ymli

First create controller:

kubectl apply -f
https://raw.githubusercontent.com/awsdevop183/kubernetes-ingress/main/nginx-ingress-controller.yml

For http to https certification:

This will generate TXT dns and give this in Route53 hosted zone record.

certbot certonly --manual --preferred-challenges=dns --key-type rsa --email \
tvsravya95@gmail.com \
--server https://acme-v02.api.letsencrypt.org/directory --agree-tos \
-d *.kuttysravya.shop -d kuttysravya.shop

cd /etc/letsencrypt/live/kuttysravya.shop/
cat fullchain.pem > tls.crt
cat privkey.pem > tls.key

Kubectl apply -f ingress-tls.yml

Then. Create secret :

kubectl create secret tls awscloudops --cert=tls.crt --key=tls.key.
awscloudops shop is secretkey name we provide. We can write any name.

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**To improve Jenkins performance.**

**Go to Jenkins /var/lib/jenkins**

**sudo nano jenkins.model.JenkinsLocationConfiguration.xml. —> give current Jenkins url in this.**

**Sudo systemctl restart jenkins.**
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