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GitHub link: <https://github.com/yanchenglee98/OTOT-A2-A3>

Instructions (instructions denoted with a (number) are essential setup steps):

1. (1) create cluster: kind create cluster --name kind-1 --config k8s/kind/cluster-config.yaml
2. (2) load local image into k8 cluster: kind load docker-image yanchenglee/taska1 --name=kind-1
3. (3) at root folder OTOT-A2-A3, run this command to apply the deployment manifest: kubectl apply -f ./demo/a2/deployment.yaml
4. check if deployment is running fine with this command: kubectl get deployment/a2 --watch
5. check on status of pods: kubectl get po -lapp=a2 --watch
6. (4) create ingress controller by applying this manifest set: kubectl apply -f https://raw.githubusercontent.com/kubernetes/ingress-nginx/main/deploy/static/provider/kind/deploy.yaml
7. (5) create a service for deployment to allow ingress to expose a service: kubectl apply -f ./demo/a2/service.yaml
8. check that ingress controller is ready before applying ingress object: kubectl -n ingress-nginx get deploy
9. (6) create an ingress object: kubectl apply -f ./demo/a2/ingress.yaml
10. access the website at: <http://localhost/app/>

Screenshots:

Pods

Text

Description automatically generated

Nodes

Text

Description automatically generated

Ingress controller

Text

Description automatically generated

Deployment

Text

Description automatically generated

Service

Text

Description automatically generated

Ingress

Text

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Webpage

A screenshot of a computer

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