Kubernetes

● Create a nginx image with static content

mkdir nginx-static-site

cd nginx-static-site

A computer screen shot of a program

AI-generated content may be incorrect.

echo “<h1>Hello I’m Ivan Pupinoski!</h1>” > index.html

ls

A screen shot of a computer

AI-generated content may be incorrect.

notepad Dockerfile

Rename-Item Dockerfile.txt Dockerfile

ls

A screenshot of a computer screen

AI-generated content may be incorrect.

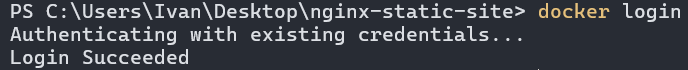
docker build -t ivkeex/nginx-static:latest .

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● Upload to Dockerhub

docker login



docker push ivkeex/nginx-static:latest

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AI-generated content may be incorrect.

● Create a Pod manifest that implements that image

notepad nginx-pod.yaml

ls

A screenshot of a computer screen

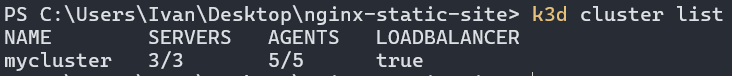
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k3d cluster create mycluster –agents 5 –servers 3 –api-port 6550

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k3d cluster list



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kubectl config set-cluster k3d-mycluster –server=//localhost:6550 –insecure-skip-tls-verify=true



kubectl get nodes

A screen shot of a computer program

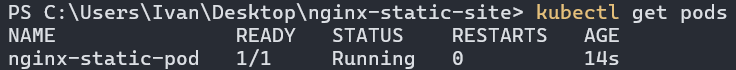
AI-generated content may be incorrect.

● Deploy the Pod to your cluster

kubectl apply -f nginx-pod.yaml



kubectl get pods



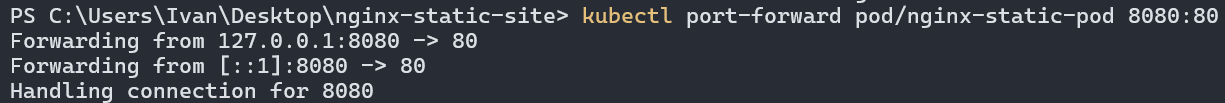
kubectl describe pod nginx-static-pod

A screenshot of a computer program

AI-generated content may be incorrect.

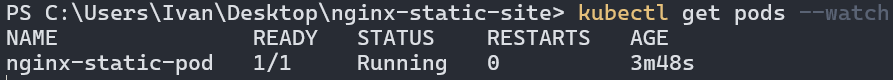
● Watch it being deployed

kubectl port-forward pod/nginx-static-pod 8080:80



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AI-generated content may be incorrect.



kubectl get pods -o wide

