**Kubernetes**

● Create a static index.html with your info in it

○ name, surname, index

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● Dockerize it with nginx

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● Deploy it to dockerhub with tag 1.0

docker login

docker build -t ivkeex/student-info-nginx:1.0 .

docker push ivkeex/student-info-nginx:1.0

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● Write a deployment manifest ○ 5 replicas, 2 max surge, 1 max unavailable

notepad deployment.yml



cat deployment.yml

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● Deploy it to your cluster

k3d cluster create mycluster –api-port 6443

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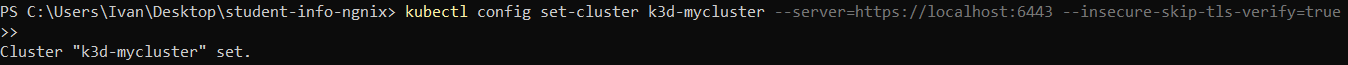
k3d cluster list

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kubectl config set-cluster k3d-myclyster –server=https://localhost:6443

–insecure-skip-tls-verify=true



kubectl apply -f deployment.yaml

kubectl get deployments

kubectl get pods

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● Refactor index.html with current year in it - tag 2.0

notepad index.html



cat index.html

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docker build -t ivkeex/student-info-nginx:2.0 .

docker push ivkeex/student-info-nginx:2.0

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● Make a rollout with 2.0 image tag

kubectl set image deployment/student/info-nginx-deployment

student-info-nginx-container=ivkeex/student-info-nginx:2.0



kubectl rollout status deployment/student-info-nginx-deployment



● Revert to 1.0 version

kubectl rollout undo deployment/student-info-nginx-deployment



kubectl describe deployment student-info-nginx-deployment

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k3d cluster delete mycluster

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