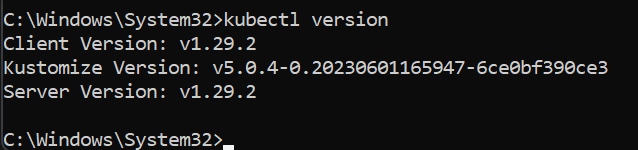
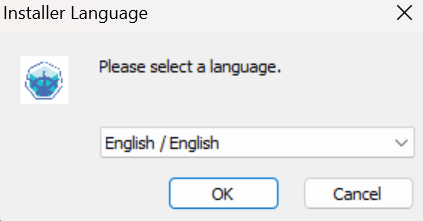
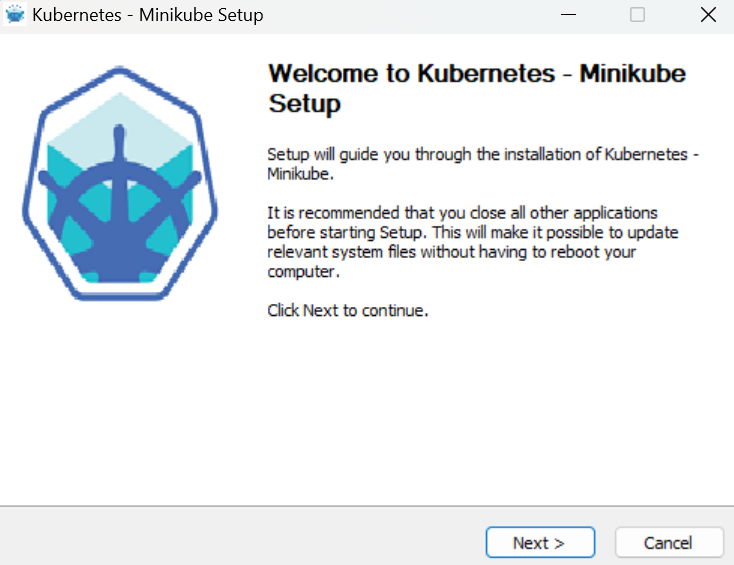
**Install Minikube and kubectl**

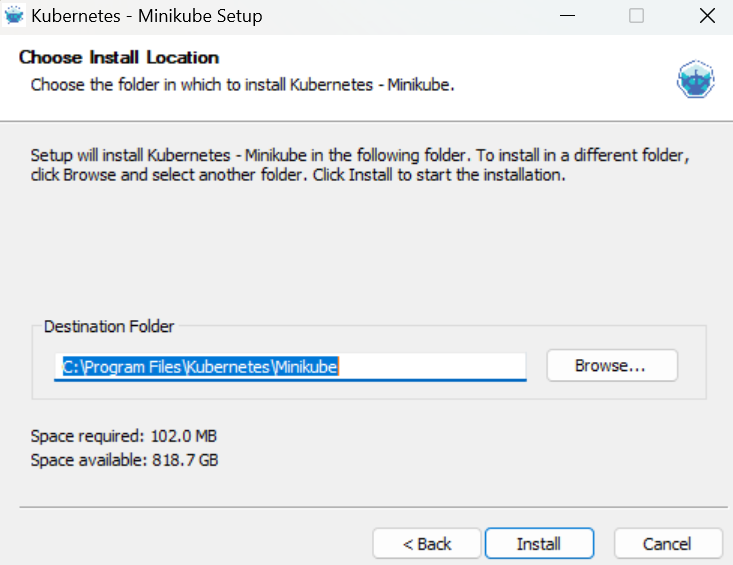
1. Check the version of kubectl installed

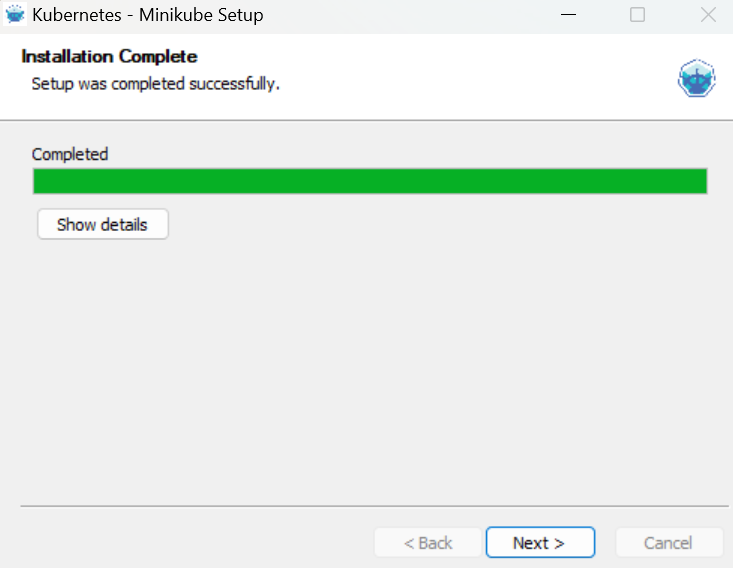


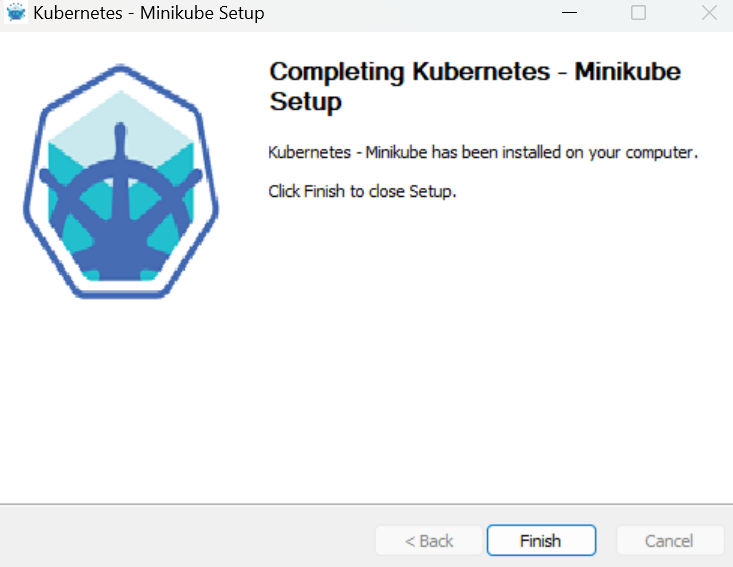
1. Install minikube. Go to minikube official website and click on the latest release of minikube



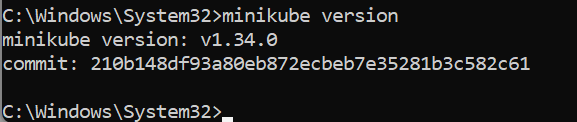




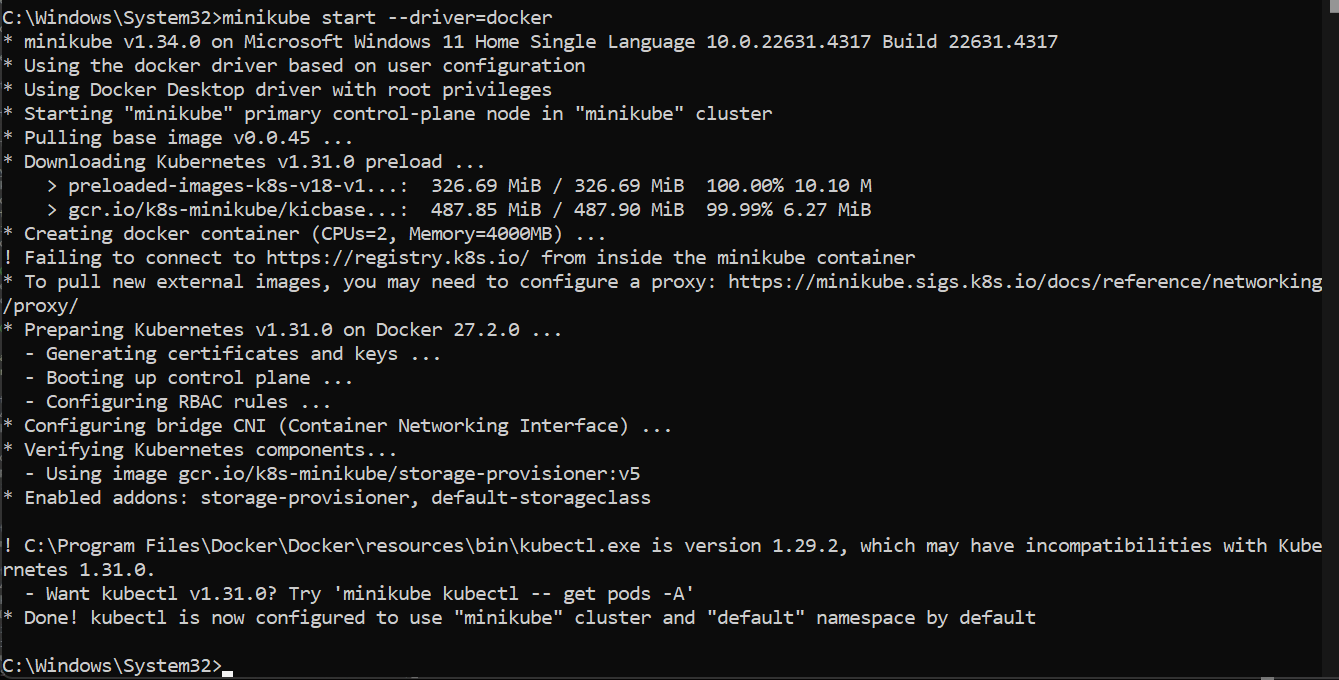




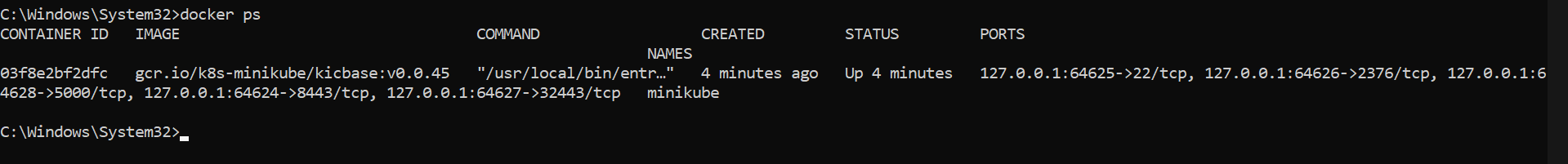
1. Check if minikube is installed: minikube version

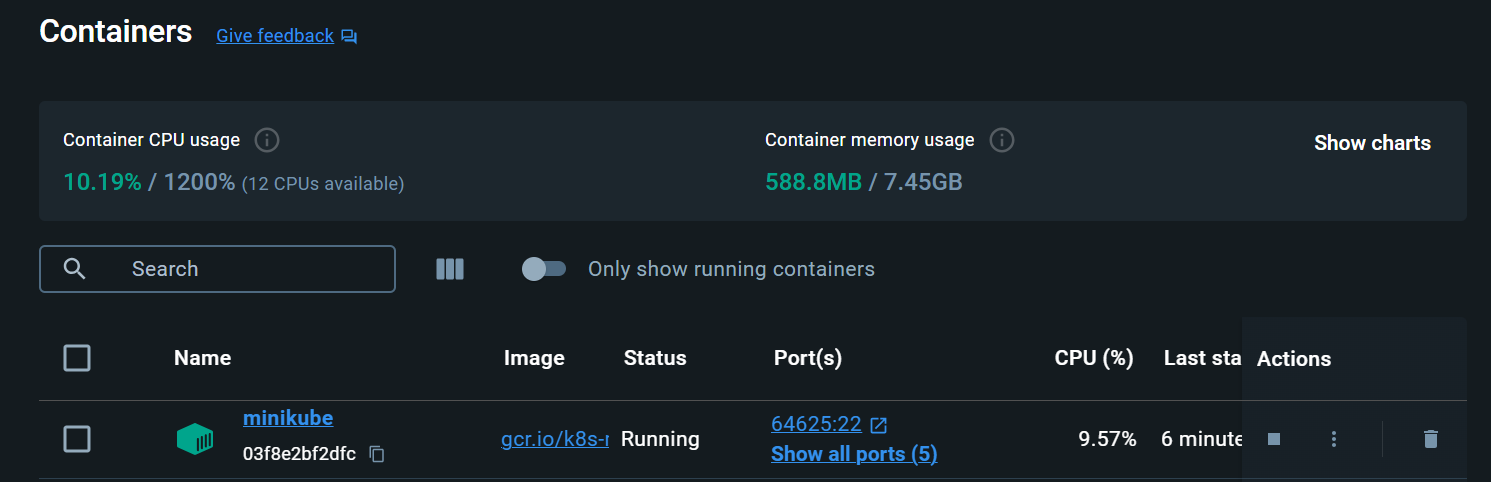


1. Minikube needs to be started with a driver. We use docker driver: minikube start --driver=docker

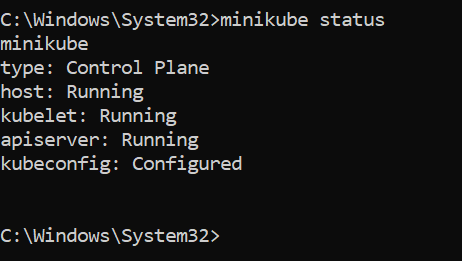


1. Docker ps: Check if the minikube container is running

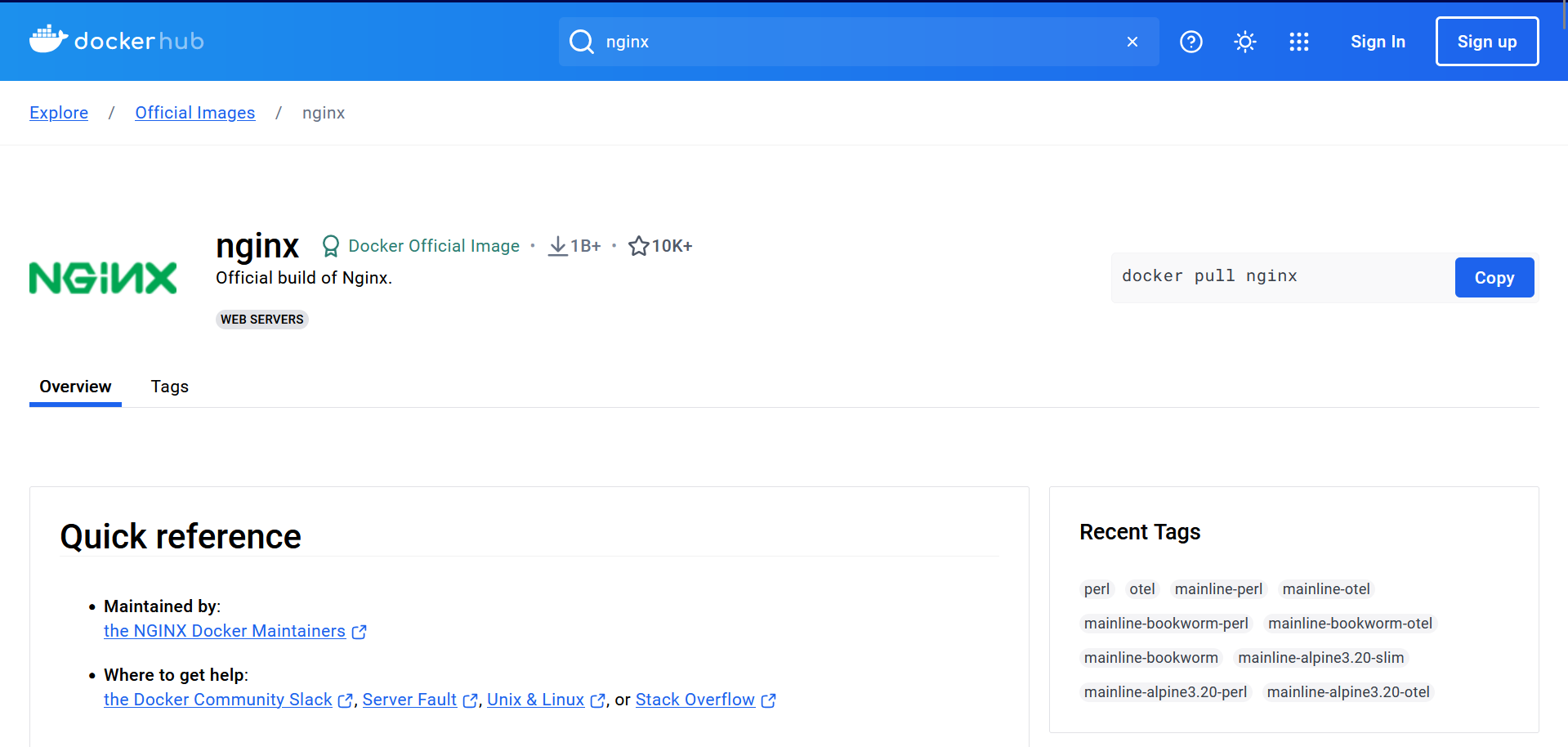




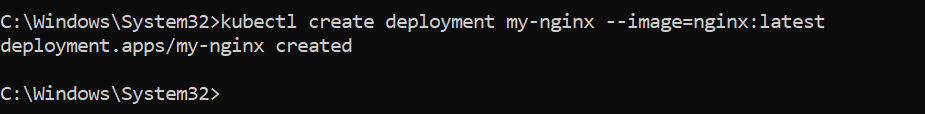
1. To check if control (worker) node is created: minikube status



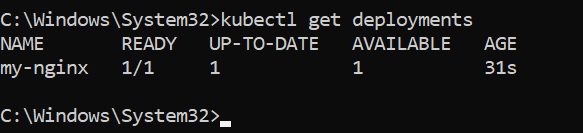
1. Running a pre-existing application (example nginx) on Kubernetes. Go to Docker hub-search nginx and click the official image



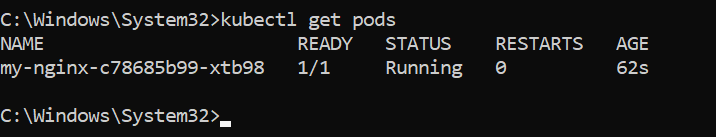
1. Now pull this image to create a deployment with Kubernetes



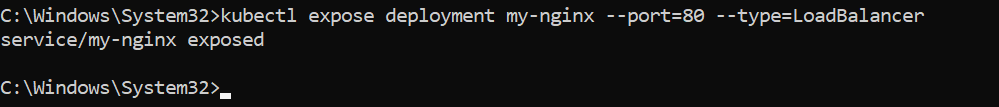
1. Check if the deployment was created



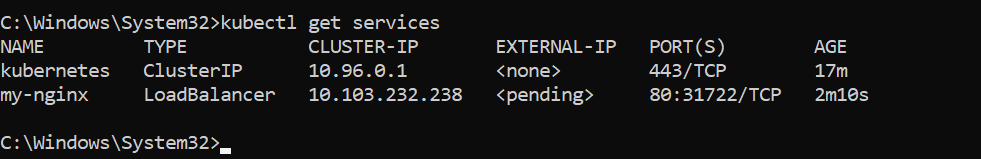
1. Check if the pod was created: kubectl get pods



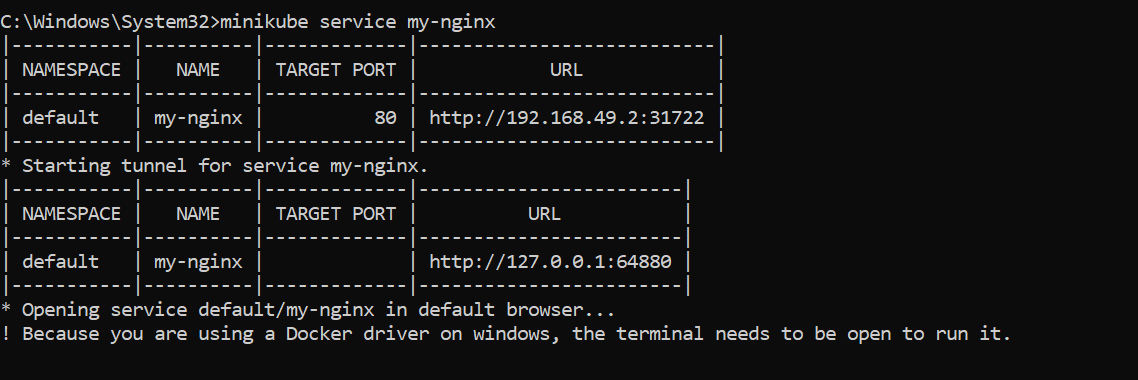
1. Expose the pod to minikube: kubectl expose deployment my-nginx --port=80 --type=LoadBalancer

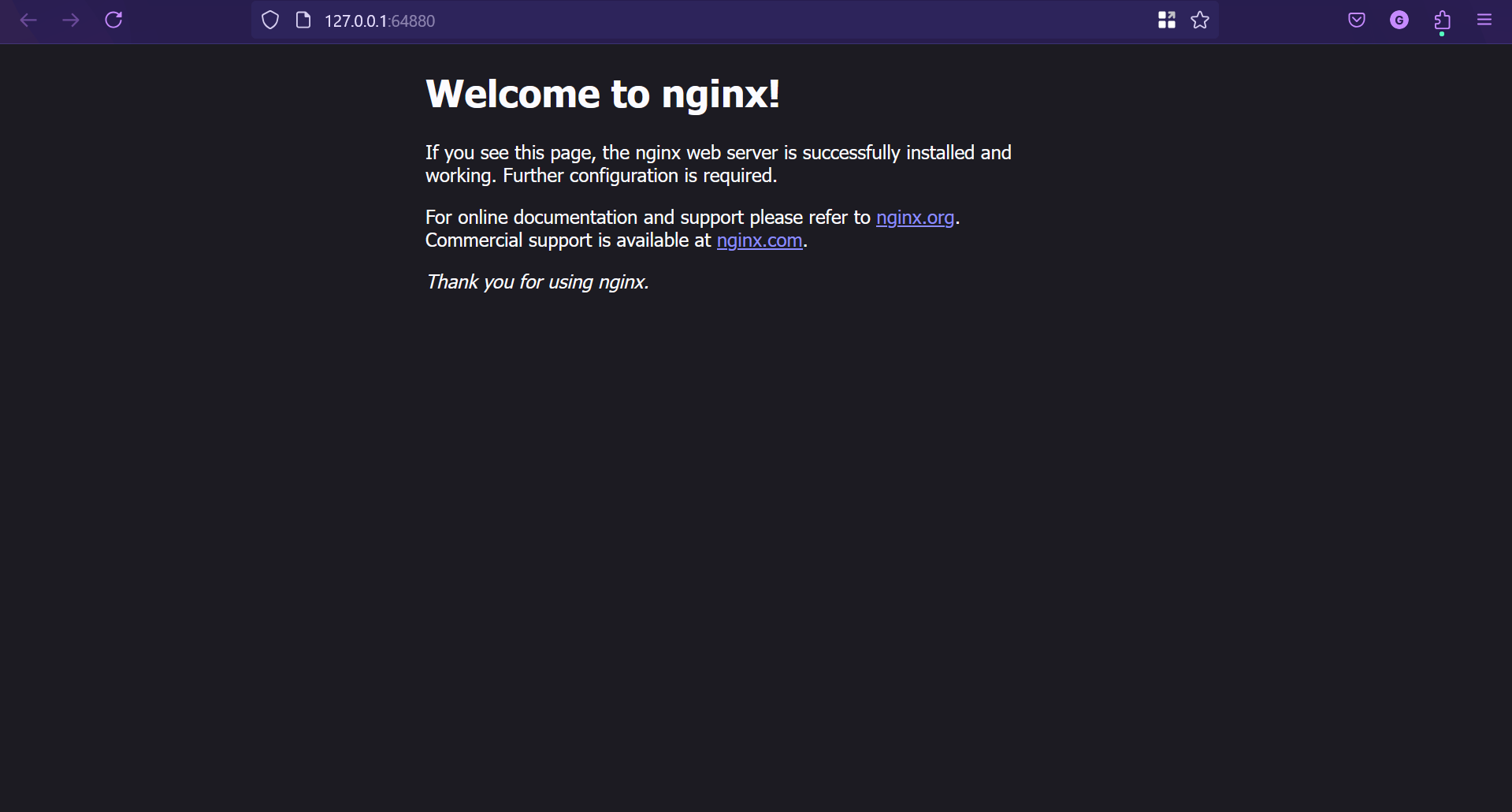


1. Check if your nginx service is running: kubectl get services



1. Link your service with minikube: minikube service my-nginx





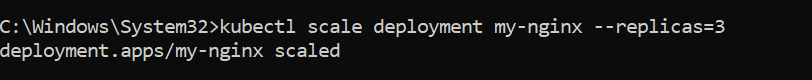
1. To delete the existing pods and container:

minikube delete

Run this and repeat everything here(follow everything above):

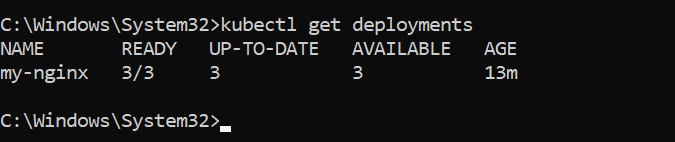
minikube start --driver=docker

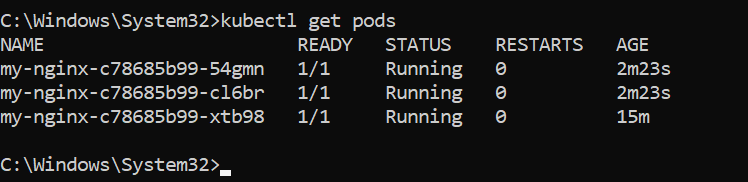
1. Scaling on Kubernetes
2. Scaling nginx 3 replicas: kubectl scale deployment my-nginx –replicas=3



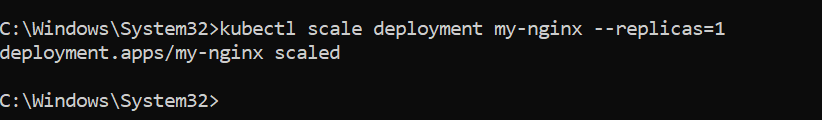
1. Check the number of pods: kubectl get deployments

Kubectl get pods



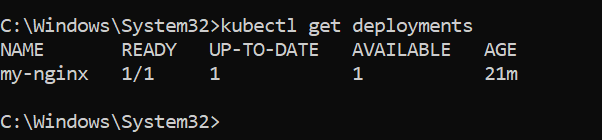


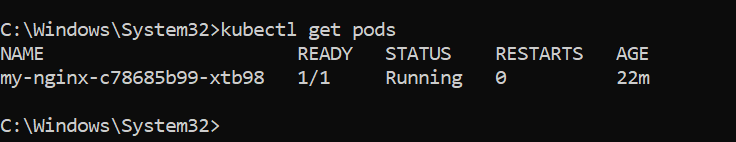
1. Scaling down: kubectl scale deployment my-nginx - -replicas=1



1. Check the no of pods: kubectl get deployments

Kubectl get pods





1. Running a hello world program…..