**Q2. Kubernetes**

1. Open cmd🡪run as administrator🡪ensure minikube,Kubernetes and docker desktop is installed
2. Start minikube using docker driver, command: **minikube start --driver=docker**

A computer screen with white text

Description automatically generated

1. Run command: **docker ps** to verify that minikube has startedA computer code on a black background

   Description automatically generated
2. Run command: **minikube status**

A screen shot of a computer

Description automatically generated

1. Run command: **kubectl create deployment myy-nginx --image=nginx:latest** to pull the nginx image from docker hub

A black background with white text

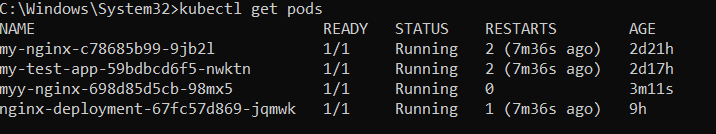
Description automatically generated

1. Run: **kubectl get deployments**

A screenshot of a computer screen

Description automatically generated

1. Run: **kubectl get pods**



1. Expose these pods to minikube:

Command: **kubectl expose deployment my-nginx --port=80 --type=LoadBalancer**

A black background with white text

Description automatically generated

1. Run: **kubectl get services**

A screenshot of a computer program

Description automatically generated

1. Run: **minikube service myy-nginx**

A screen shot of a computer

Description automatically generated

1. **Output:**

A screenshot of a computer

Description automatically generated

1. For creating 2 replicas, run: **kubectl scale deployment my-test-app --replicas=3**

A black background with white text

Description automatically generated

1. To scale it to 5 replicas, run: **kubectl scale deployment my-test-app --replicas=5**

**A black background with white text

Description automatically generated**

1. **To verify, run: kubectl get pods**

**A screenshot of a computer screen

Description automatically generated**