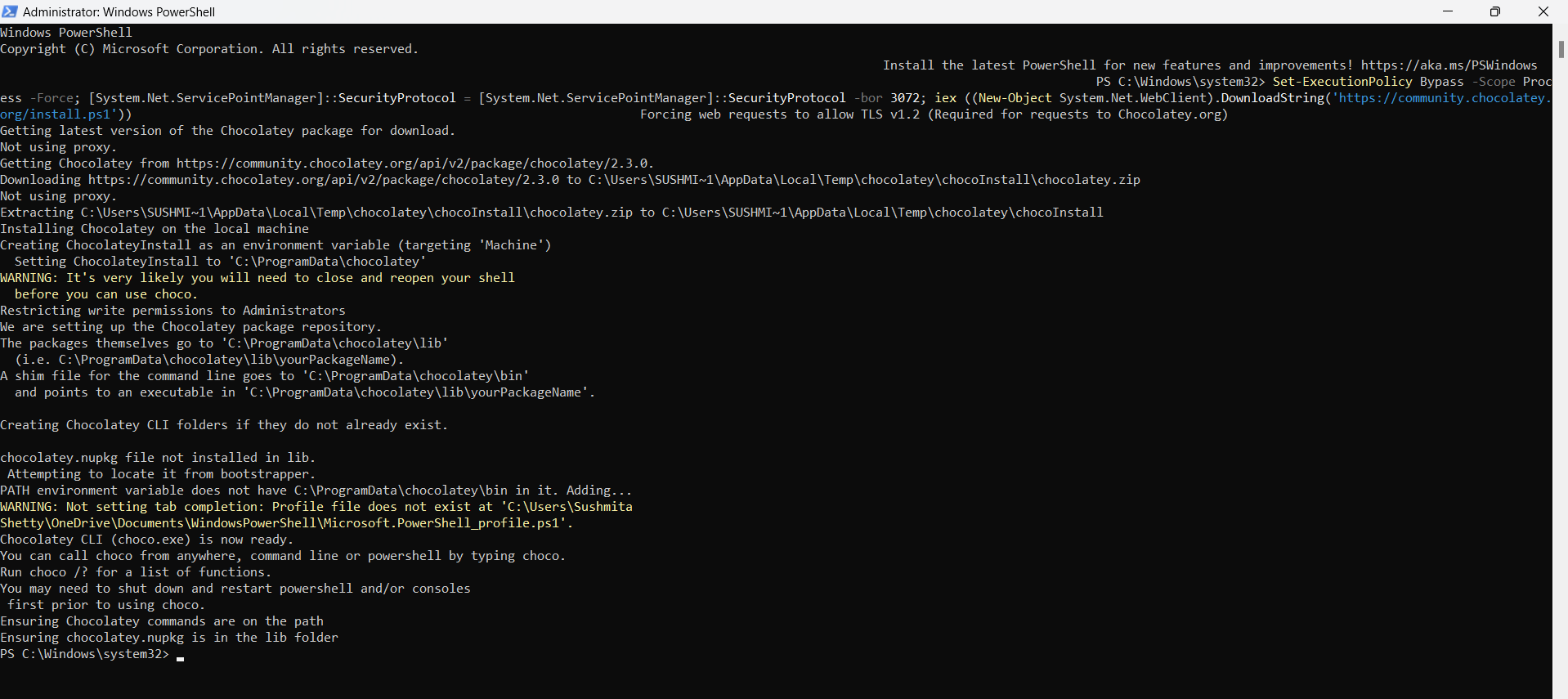
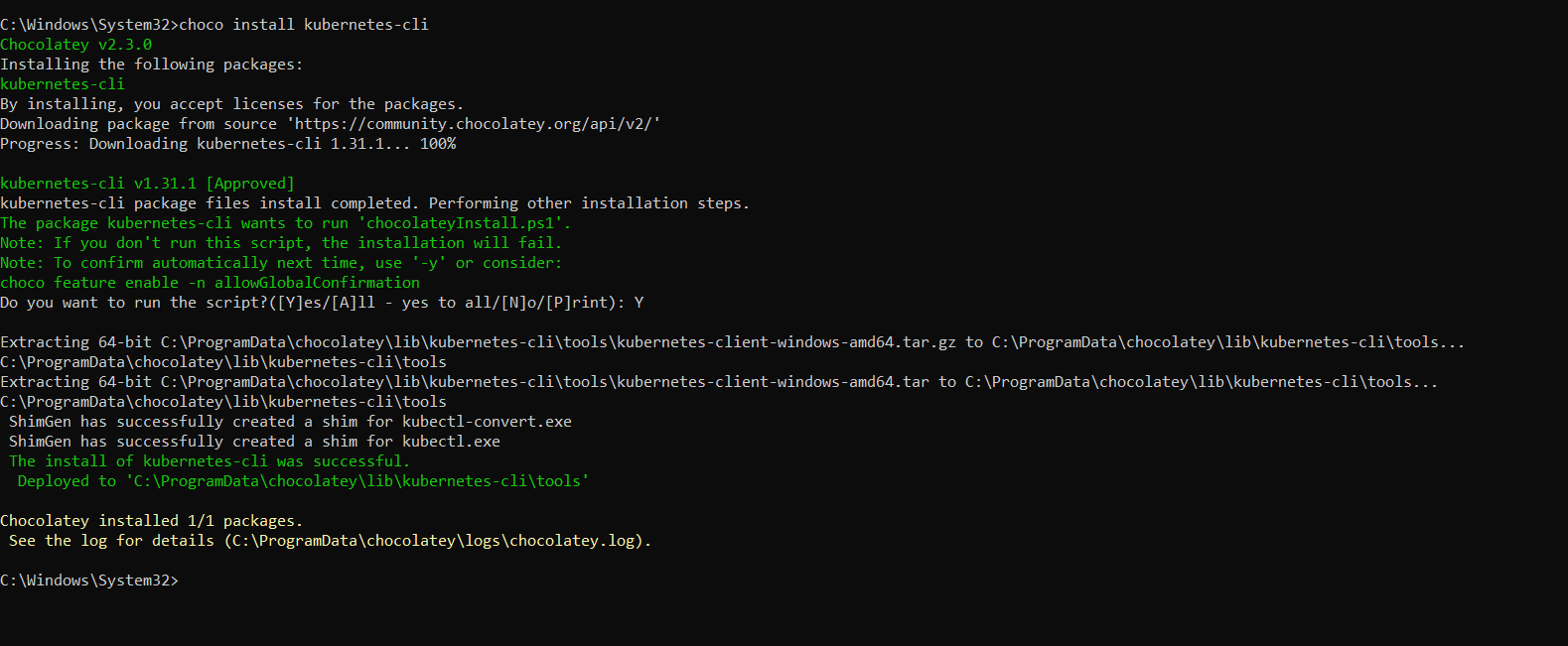
1. First Install Chocolatey in Your Pc in Windows PowerShell-Run as Administrator

Command:

Set-ExecutionPolicy Bypass -Scope Process -Force; [System.Net.ServicePointManager]::SecurityProtocol = [System.Net.ServicePointManager]::SecurityProtocol -bor 3072; iex ((New-Object System.Net.WebClient).DownloadString('https://community.chocolatey.org/install.ps1'))

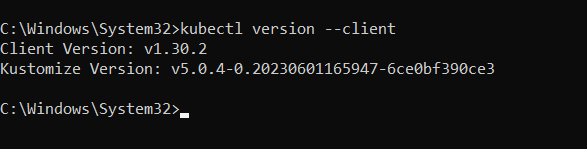


install kubectl:  
Command: choco install kubernetes-cli

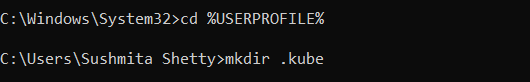


Check the version to confirm the installation:

Command: kubectl version –client



Execute this command: cd %USERPROFILE% and then run mkdir .kube



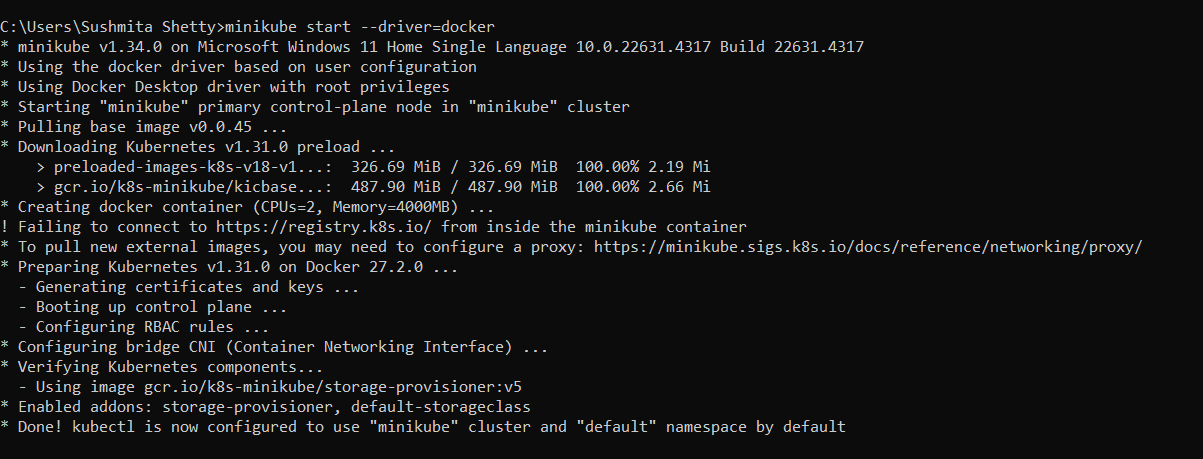
Now go to c drive🡪user🡪sushmita Shetty🡪 .kube folder. Inside that .kube folder create a config.txt file

Then download/install minikube

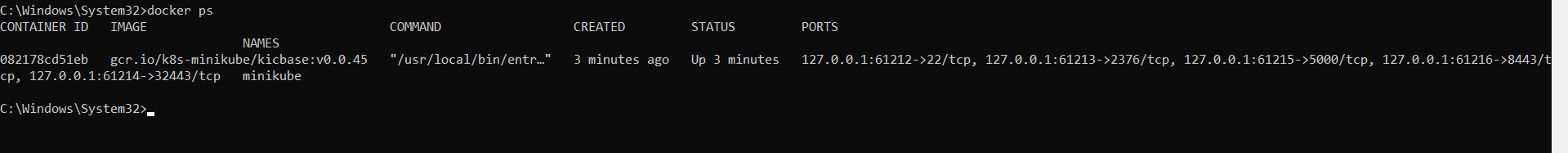
Command: choco install minikube



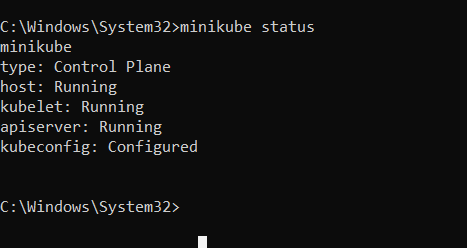
Now make a Kubernetes cluster using command: minikube start --driver=docker (ensure system has docker else install docker desktop and open)



Now run docker ps to check if the container is up or not



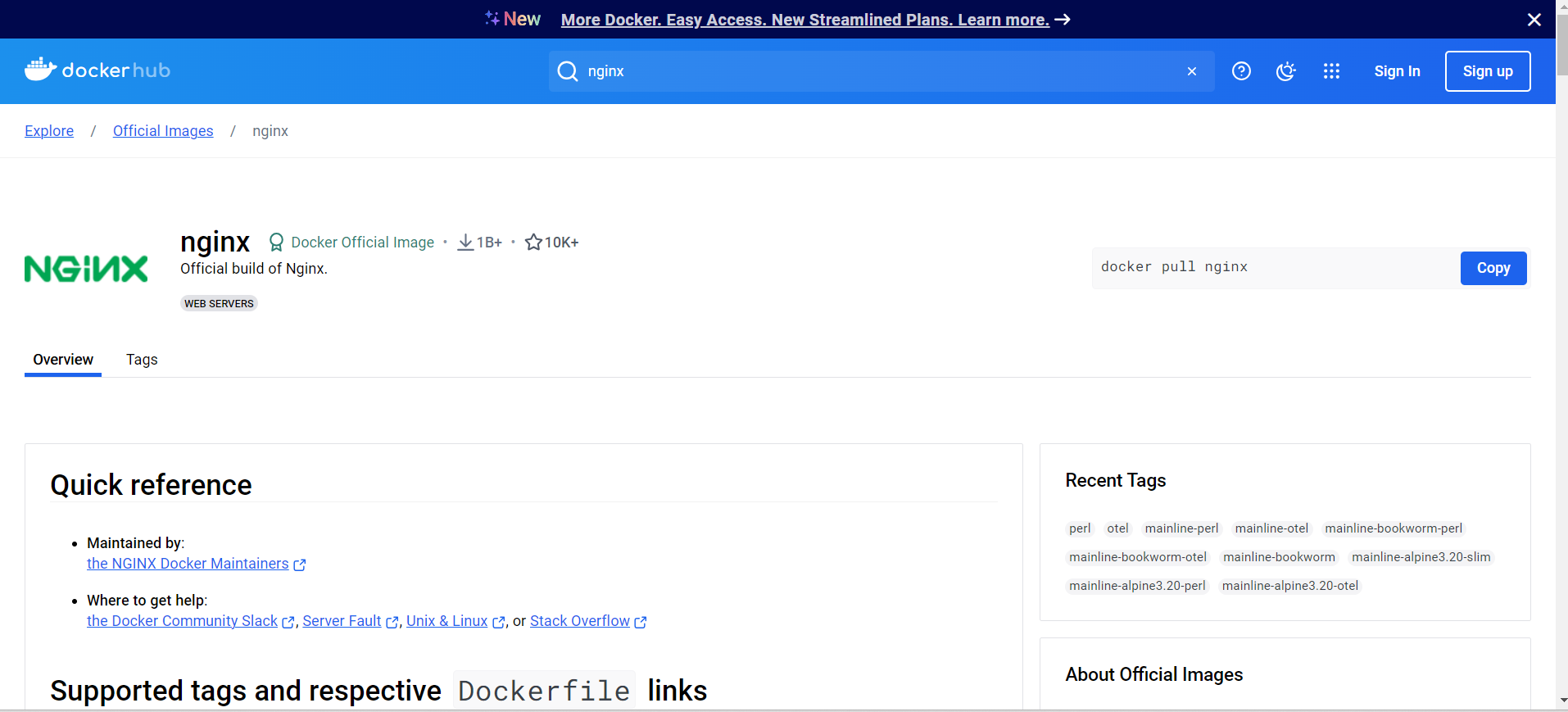
Now run minikube status to check if the control plane is done

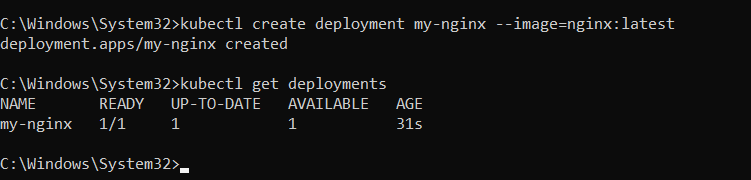


Run a pre-existing application (example nginx) on Kubernetes

Go to Docker hub-search nginx

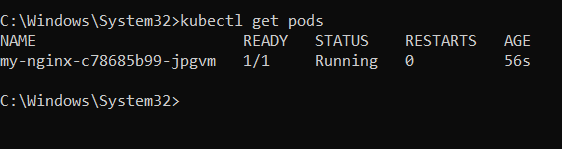
command: kubectl create deployment my-nginx --image=nginx:latest





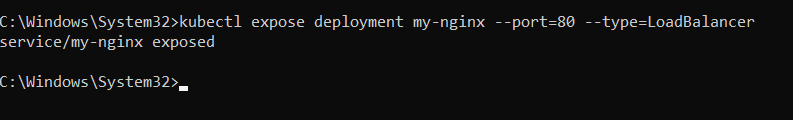
kubectl get deployments 🡪check is the my-ngnix is created

then check id the pods are created using command: kubectl get pods



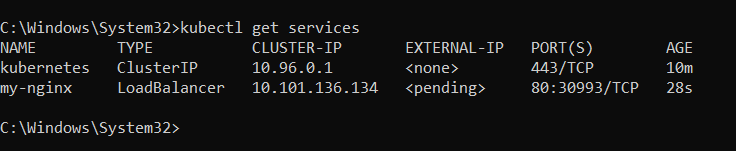
Expose the pod to minikube:

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

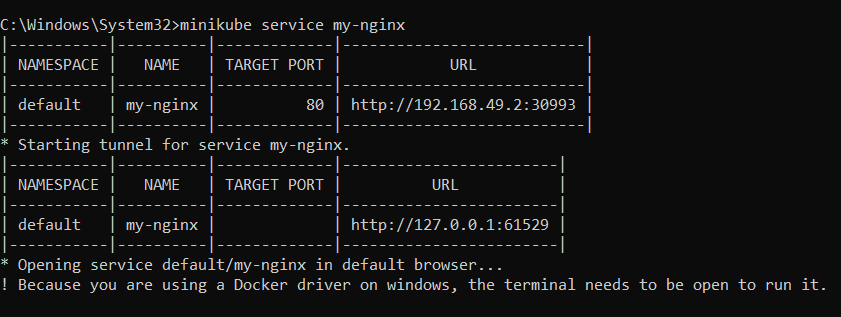


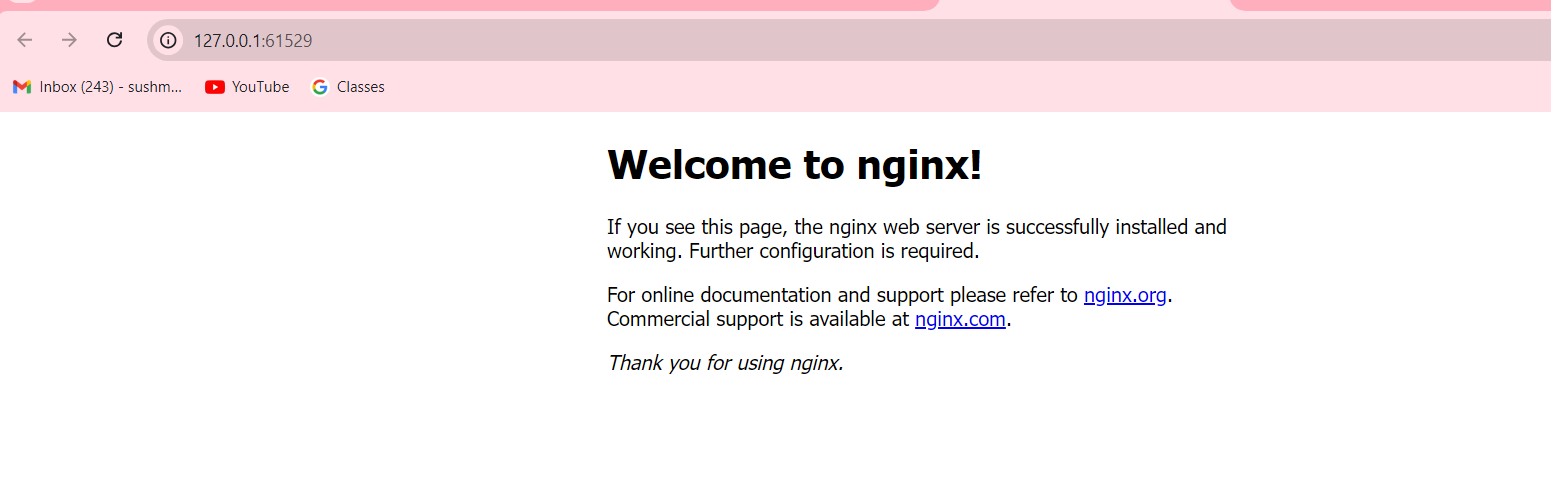
Check if your service is exposed or not

Command: kubectl get services

  
Link your service with minikube

Command: minikube service my-nginx





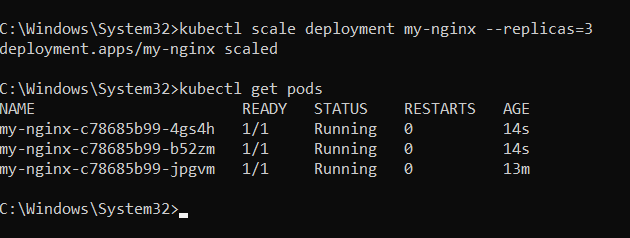
Custom application 🡪 need to be done

**SCALING ON KUBERNETES**

Scaling Up:

Command: kubectl scale deployment my-test-app --replicas=3

Then verify it if it has actually created a replica using kubectl get pods



Scaling down: Command: kubectl scale deployment my-test-app --replicas=3

Again you can verify