SANMATHI S

22ISR045

minikube start

Starts a Minikube cluster.

Creates a single-node Kubernetes cluster in a VM or container.

```
C:\Windows\System32>minikube start
* minikube v1.35.0 on Microsoft Windows 11 Home Single Language 10.0.26100.3037 Build 26100.3037
* Automatically selected the docker driver. Other choices: hyperv, virtualbox, ssh
* Using Docker Desktop driver with root privileges
* Starting "minikube" primary control-plane node in "minikube" cluster
* Pulling base image v0.0.46 ...
* Downloading Kubernetes v1.32.0 preload ...
    > preloaded-images-k8s-v18-v1...:  333.57 MiB / 333.57 MiB  100.00% 2.58 Mi
    > gcr.io/k8s-minikube/kicbase...:  500.31 MiB / 500.31 MiB  100.00% 2.43 Mi
* Creating docker container (CPUs=2, Memory=4000MB) ...
! Failing to connect to https://registry.k8s.io/ from inside the minikube container
* To pull new external images, you may need to configure a proxy: https://minikube.sigs.k8s.io/docs/reference/networking/proxy/
* Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...
  - Generating certificates and keys ...
  - Booting up control plane ...
  - Configuring RBAC rules ...
* Configuring bridge CNI (Container Networking Interface) ...
* Verifying Kubernetes components...
  - Using image gcr.io/k8s-minikube/storage-provisioner:v5
* Enabled addons: storage-provisioner, default-storageclass
```

Command	Description
kubectl expose deployment <name> --type=NodePort --port=80	Creates a service to expose a deployment.
kubectl get services	Lists all services.
kubectl describe service <service-name>	Shows details about a service.

```
C:\Windows\System32>kubectl create deployment sankube --image=sanmathisedhupathi/guvi:taskmates --port=80
deployment.apps/sankube created
```

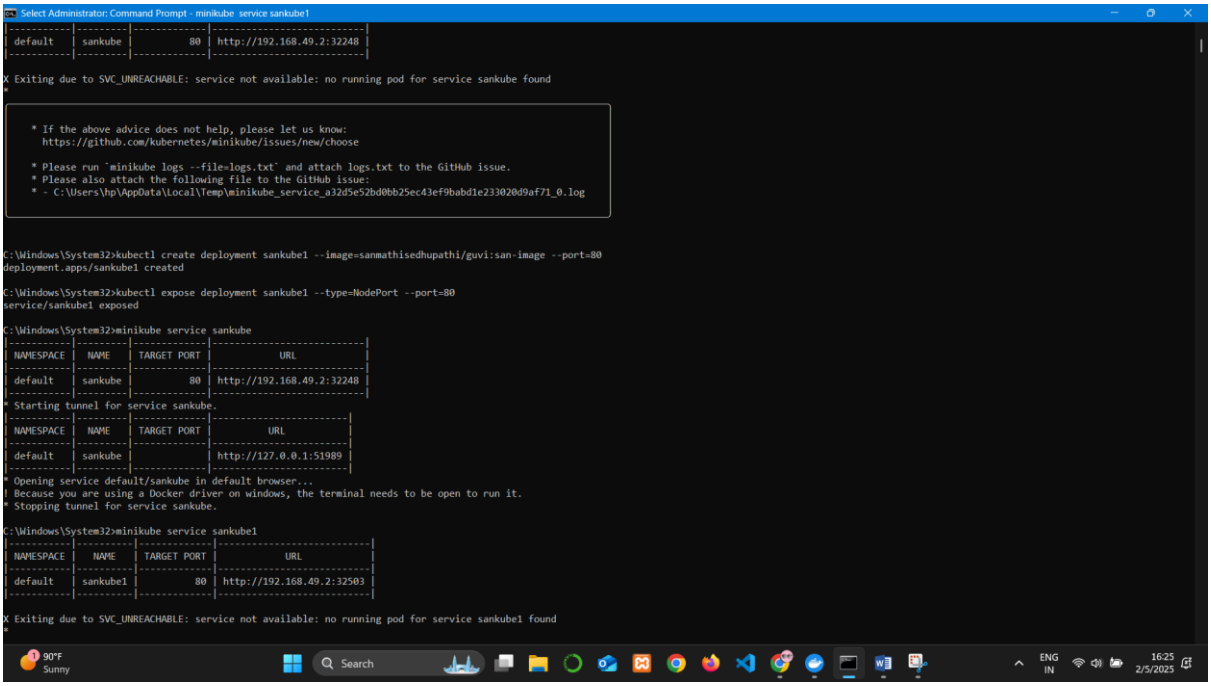
The kubectl expose command is used to create a **Kubernetes Service** for an existing resource (Pod, Deployment, ReplicaSet, etc.), allowing network access.

```
C:\Windows\System32>kubectl expose deployment sankube --type=NodePort --port=80
service/sankube exposed
```

minikube service <service-name>

Opens a service in a browser.

Finds the service and launches it.



Output in Chrome