

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.

```
Select Administrator: Command Prompt - minikube service sankube1
-----
| default | sankube | 80 | http://192.168.49.2:32248 |
|-----|
X Exiting due to SVC_UNREACHABLE: service not available: no running pod for service sankube found
X

* If the above advice does not help, please let us know:
  https://github.com/kubernetes/minikube/issues/new/choose

* Please run 'minikube logs --file-logs.txt' and attach logs.txt to the GitHub issue.
* Please also attach the following file to the GitHub issue:
* - C:\Users\hp\AppData\Local\Temp\minikube_service_a32d5e52bd0bb25ec43ef9bad1e233020d9af71_0.log

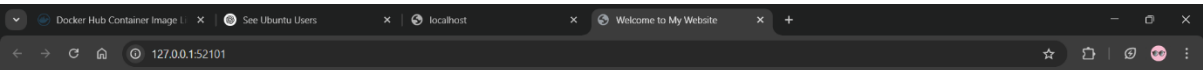
C:\Windows\System32\cmd.exe /c minikube create deployment sankube1 --image=sanmathisedhupathi/guvi:san-image --port=80
deployment.apps/sankube1 created

C:\Windows\System32\cmd.exe /c minikube expose deployment sankube1 --type=NodePort --port=80
service/sankube1 exposed

C:\Windows\System32\cmd.exe /c minikube service sankube1
-----
| namespace | name | target port | url |
|-----|
| default | sankube | 80 | http://192.168.49.2:32248 |
|-----|
* Starting tunnel for service sankube.
| namespace | name | target port | url |
|-----|
| default | sankube | 80 | http://127.0.0.1:51989 |
|-----|
* Opening service default/sankube in default browser...
* Because you are using a Docker driver on windows, the terminal needs to be open to run it.
* Stopping tunnel for service sankube.

C:\Windows\System32\cmd.exe /c minikube service sankube1
-----
| namespace | name | target port | url |
|-----|
| default | sankube1 | 80 | http://192.168.49.2:32503 |
|-----|
X Exiting due to SVC_UNREACHABLE: service not available: no running pod for service sankube1 found
X
```

Output in Chrome



Welcome to My Nginx Server

This is a simple HTML page served by Nginx running in a Docker container.
Enjoy the content!

