#kubectl

#Minikube
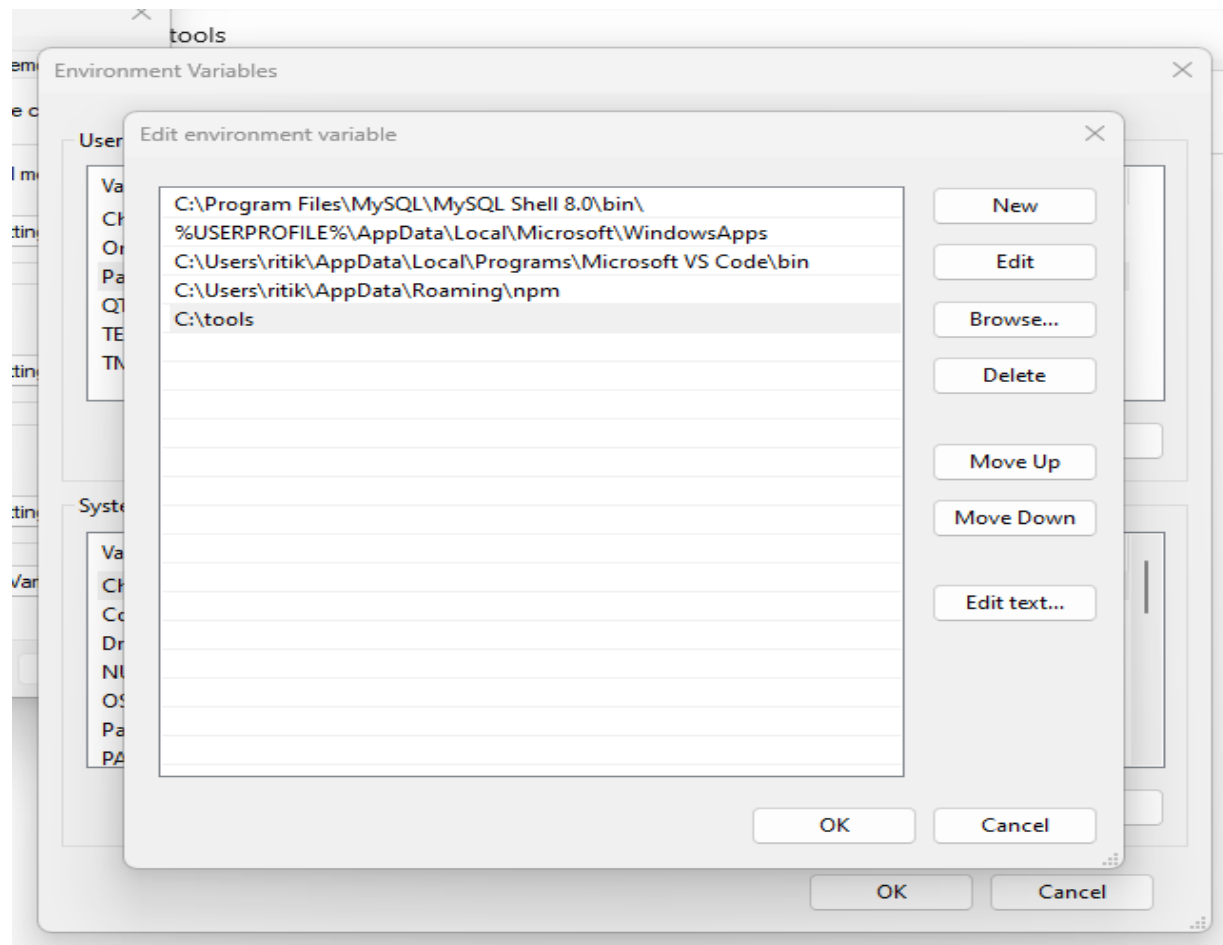
```
Microsoft Windows [Version 10.0.22621.3007]
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C:\Users\ritik>minikube start
W0116 22:44:15.123050   14960 main.go:291] Unable to resolve the current Docker CLI context "default": context "default": context not found: open C:
\Users\ritik\.docker\contexts\meta\37a8eec1ce19687d132fe29051dca629d164e2c4958ba141d5f4133a33f0688f\meta.json: The system cannot find the path speci
fied.
* minikube v1.32.0 on Microsoft Windows 11 Home Single Language 10.0.22621.3007 Build 22621.3007
* Using the docker driver based on existing profile

X Exiting due to PROVIDER_DOCKER_NOT_RUNNING: "docker version --format <no value>-<no value>:<no value>" exit status 1: error during connect: this e
rror may indicate that the docker daemon is not running: Get "http://%2F%2F.%2Fpipe%2Fdocker_engine/v1.24/version": open //./pipe/docker_engine: The
 system cannot find the file specified.
* Suggestion: Start the Docker service
* Documentation: https://minikube.sigs.k8s.io/docs/drivers/docker/


C:\Users\ritik>minikube delete
W0116 22:44:24.032961    1492 main.go:291] Unable to resolve the current Docker CLI context "default": context "default": context not found: open C:
\Users\ritik\.docker\contexts\meta\37a8eec1ce19687d132fe29051dca629d164e2c4958ba141d5f4133a33f0688f\meta.json: The system cannot find the path speci
fied.
* Deleting "minikube" in docker ...
* Removed all traces of the "minikube" cluster.

C:\Users\ritik>minikube start
W0116 22:46:19.534741    4036 main.go:291] Unable to resolve the current Docker CLI context "default": context "default": context not found: open C:
\Users\ritik\.docker\contexts\meta\37a8eec1ce19687d132fe29051dca629d164e2c4958ba141d5f4133a33f0688f\meta.json: The system cannot find the path speci
fied.
* minikube v1.32.0 on Microsoft Windows 11 Home Single Language 10.0.22621.3007 Build 22621.3007
* Automatically selected the docker driver. Other choices: virtualbox, ssh
* Using Docker Desktop driver with root privileges
* Starting control plane node minikube in cluster minikube
* Pulling base image ...
! minikube was unable to download gcr.io/k8s-minikube/kicbase:v0.0.42, but successfully downloaded docker.io/kicbase/stable:v0.0.42 as a fallback im
age
```

```
Command Prompt - minikube   ×    +   ∨

* Preparing Kubernetes v1.28.3 on Docker 24.0.7 ...
  - 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
* kubectl not found. If you need it, try: 'minikube kubectl -- get pods -A'
* Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default

C:\Users\ritik>kubectl create deployment hello-world --image=gcr.io/google-samples/hello-app:1.0
deployment.apps/hello-world created

C:\Users\ritik>kubectl expose deployment hello-world --type=NodePort --port=8080
service/hello-world exposed

C:\Users\ritik>minikube service hello-world
W0116 22:49:47.069600   18348 main.go:291] Unable to resolve the current Docker CLI context "default": context "
Users\ritik\.docker\contexts\meta\37a8eec1ce19687d132fe29051dca629d164e2c4958ba141d5f4133a33f0688f\meta.json: T
fied.
|-----------|-------------|-------------|---------------------------|
| NAMESPACE |    NAME     | TARGET PORT |            URL            |
|-----------|-------------|-------------|---------------------------|
|  default  | hello-world |        8080 | http://192.168.49.2:31477 |
|-----------|-------------|-------------|---------------------------|
* Starting tunnel for service hello-world.
|-----------|-------------|-------------|------------------------|
| NAMESPACE |    NAME     | TARGET PORT |          URL           |
|-----------|-------------|-------------|------------------------|
|  default  | hello-world |             | http://127.0.0.1:50935 |
|-----------|-------------|-------------|------------------------|
* Opening service default/hello-world in default browser...
  Because you are using a Docker driver on windows, the terminal needs to be open to run it.
```

Hello, world!
Version: 1.0.0
Hostname: hello-world-7879445f4-jcrgd