```
thrisha@LAPTOP-2IK4H22I:~$ docker images
REPOSITORY    TAG       IMAGE ID       CREATED       SIZE
nginx         latest    53a18edff809   6 weeks ago   192MB
ubuntu        latest    a04dc4851cbc   7 weeks ago   78.1MB
hello-world   latest    74cc54e27dc4   8 weeks ago   10.1kB
thrisha@LAPTOP-2IK4H22I:~$ minikube start
😄  minikube v1.35.0 on Ubuntu 24.04 (amd64)
✨  Automatically selected the docker driver
📌  Using Docker driver with root privileges
❗  For an improved experience it's recommended to use Docker Engine instead of Docker Desktop.
Docker Engine installation instructions: https://docs.docker.com/engine/install/#server
👍  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% 637.36
    > gcr.io/k8s-minikube/kicbase...:  500.31 MiB / 500.31 MiB  100.00% 945.15
🔥  Creating docker container (CPUs=2, Memory=2200MB) ...
🐳  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
🏄  Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
thrisha@LAPTOP-2IK4H22I:~$ minikube start
😄  minikube v1.35.0 on Ubuntu 24.04 (amd64)
✨  Using the docker driver based on existing profile
👍  Starting "minikube" primary control-plane node in "minikube" cluster
🚜  Pulling base image v0.0.46 ...
🏃  Updating the running docker "minikube" container ...
❗  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 ...
🔎  Verifying Kubernetes components...
    ▪ Using image gcr.io/k8s-minikube/storage-provisioner:v5
🌟  Enabled addons: default-storageclass, storage-provisioner
🏄  Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
thrisha@LAPTOP-2IK4H22I:~$ minikube status
minikube
type: Control Plane
host: Running
kubelet: Running
```

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thrisha@LAPTOP-2IK4H22I:~$ curl -LO "https://dl.k8s.io/release/$(curl -L -s https://dl.k8s.io/release/stable.txt)/bin/linux/amd64/kubectl"
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100   138  100   138    0     0    280      0 --:--:-- --:--:-- --:--:--   279
100 54.6M  100 54.6M    0     0  4185k      0  0:00:13  0:00:13 --:--:-- 5149k
thrisha@LAPTOP-2IK4H22I:~$ chmod +x kubectl
thrisha@LAPTOP-2IK4H22I:~$ sudo mv kubectl /usr/local/bin/
[sudo] password for thrisha:
thrisha@LAPTOP-2IK4H22I:~$ kubectl version --client
Client Version: v1.32.3
Kustomize Version: v5.5.0
thrisha@LAPTOP-2IK4H22I:~$ echo 'source <(kubectl completion bash)' >> ~/.bashrc
source ~/.bashrc
thrisha@LAPTOP-2IK4H22I:~$ kubectl get nodes
NAME       STATUS   ROLES           AGE     VERSION
minikube   Ready    control-plane   6m24s   v1.32.0
thrisha@LAPTOP-2IK4H22I:~$ docker images
REPOSITORY                    TAG       IMAGE ID       CREATED        SIZE
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ubuntu                        latest    a04dc4851cbc   7 weeks ago    78.1MB
hello-world                   latest    74cc54e27dc4   8 weeks ago    10.1kB
gcr.io/k8s-minikube/kicbase   v0.0.46   e72c4cbe9b29   2 months ago   1.31GB
thrisha@LAPTOP-2IK4H22I:~$ kubectl create deployment r1 --image=thrisha1012/devops-image --port =80
error: invalid argument "=80" for "--port" flag: strconv.ParseInt: parsing "=80": invalid syntax
See 'kubectl create deployment --help' for usage.
thrisha@LAPTOP-2IK4H22I:~$ kubectl create deployment r1 --image=thrisha1012/devops-image --port=80
deployment.apps/r1 created
thrisha@LAPTOP-2IK4H22I:~$ kubectl get pods
NAME                  READY   STATUS    RESTARTS   AGE
r1-647bf677f9-fv896   1/1     Running   0          47s
thrisha@LAPTOP-2IK4H22I:~$ minikube service r1

❌  Exiting due to SVC_NOT_FOUND: Service 'r1' was not found in 'default' namespace.
You may select another namespace by using 'minikube service r1 -n <namespace>'. Or list out all the services using 'minikube service list'

thrisha@LAPTOP-2IK4H22I:~$ kubectl expose deployment r1 --port=80 --type=NodePort
service/r1 exposed
thrisha@LAPTOP-2IK4H22I:~$ minikube service r1
|-----------|------|-------------|---------------------------|
| NAMESPACE | NAME | TARGET PORT |            URL            |
|-----------|------|-------------|---------------------------|
| default   | r1   |          80 | http://192.168.49.2:30136 |
|-----------|------|-------------|---------------------------|
```

```
See 'kubectl create deployment --help' for usage.
thrisha@LAPTOP-2IK4H22I:~$ kubectl create deployment r1 --image=thrisha1012/devops-image --port=80
deployment.apps/r1 created
thrisha@LAPTOP-2IK4H22I:~$ kubectl get pods
NAME                  READY   STATUS    RESTARTS   AGE
r1-647bf677f9-fv896   1/1     Running   0          47s
thrisha@LAPTOP-2IK4H22I:~$ minikube service r1

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thrisha@LAPTOP-2IK4H22I:~$ kubectl expose deployment r1 --port=80 --type=NodePort
service/r1 exposed
thrisha@LAPTOP-2IK4H22I:~$ minikube service r1
|-----------|------|-------------|---------------------------|
| NAMESPACE | NAME | TARGET PORT |            URL            |
|-----------|------|-------------|---------------------------|
| default   | r1   |          80 | http://192.168.49.2:30136 |
|-----------|------|-------------|---------------------------|
🏃  Starting tunnel for service r1.
|-----------|------|-------------|------------------------|
| NAMESPACE | NAME | TARGET PORT |          URL           |
|-----------|------|-------------|------------------------|
| default   | r1   |             | http://127.0.0.1:36515 |
|-----------|------|-------------|------------------------|
🎉  Opening service default/r1 in default browser...
👉  http://127.0.0.1:36515
❗  Because you are using a Docker driver on linux, the terminal needs to be open to run it.
```