VARSHINE T
22CSR230

TASK 3

```
varsh_12@VARSH:~$ code --install-extension <extension-name>
-bash: syntax error near unexpected token `newline'
varsh_12@VARSH:~$ wsl --install -d ubuntu
Command 'wsl' not found, but can be installed with:
sudo apt install wsl
varsh_12@VARSH:~$ docker images
REPOSITORY         TAG       IMAGE ID       CREATED          SIZE
test1              latest    53664373f5d4   23 minutes ago   195MB
varsh1204/devops   latest    53664373f5d4   23 minutes ago   195MB
varsh_12@VARSH:~$ docker run -itd -p 70:80 test1
51394a8cbe9ebf596b5f471098474a79781603b9ced7cfb1e329029f3b3c5912
varsh_12@VARSH:~$ sudo apt-get install docker-buildx-plugin
[sudo] password for varsh_12:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  docker-ce-cli docker-compose-plugin
The following packages will be upgraded:
  docker-buildx-plugin docker-ce-cli docker-compose-plugin
3 upgraded, 0 newly installed, 0 to remove and 28 not upgraded.
Need to get 65.2 MB of archives.
After this operation, 853 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-buildx-plugin amd64 0.22.0-1~ubuntu.24.04~noble [35.3 MB]
Get:2 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-ce-cli amd64 5:28.0.2-1~ubuntu.24.04~noble [15.8 MB]
Get:3 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-compose-plugin amd64 2.34.0-1~ubuntu.24.04~noble [14.1 MB]
Fetched 65.2 MB in 13s (5124 kB/s)
(Reading database ... 42381 files and directories currently installed.)
Preparing to unpack .../docker-buildx-plugin_0.22.0-1~ubuntu.24.04~noble_amd64.deb ...
Unpacking docker-buildx-plugin (0.22.0-1~ubuntu.24.04~noble) over (0.21.1-1~ubuntu.24.04~noble) ...
Preparing to unpack .../docker-ce-cli_5%3a28.0.2-1~ubuntu.24.04~noble_amd64.deb ...
Unpacking docker-ce-cli (5:28.0.2-1~ubuntu.24.04~noble) over (5:28.0.1-1~ubuntu.24.04~noble) ...
Preparing to unpack .../docker-compose-plugin_2.34.0-1~ubuntu.24.04~noble_amd64.deb ...
Unpacking docker-compose-plugin (2.34.0-1~ubuntu.24.04~noble) over (2.33.1-1~ubuntu.24.04~noble) ...
Setting up docker-buildx-plugin (0.22.0-1~ubuntu.24.04~noble) ...
Setting up docker-compose-plugin (2.34.0-1~ubuntu.24.04~noble) ...
Setting up docker-ce-cli (5:28.0.2-1~ubuntu.24.04~noble) ...
Processing triggers for man-db (2.12.0-4build2) ...
varsh_12@VARSH:~$
```

```
sudo install minikube-linux-amd64 /usr/local/bin/minikube
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100  119M  100  119M    0     0  4698k      0  0:00:26  0:00:26 --:--:-- 4830k
varsh_12@VARSH:~$ minikube version
minikube version: v1.35.0
commit: dd5d320e41b5451cdf3c01891bc4e13d189586ed-dirty
varsh_12@VARSH:~$ minikube start --driver=docker
😄  minikube v1.35.0 on Ubuntu 24.04 (amd64)
✨  Using the docker driver based on user configuration

⛔  Requested memory allocation (1874MB) is less than the recommended minimum 1900MB. Deployments may fail.


🧯  The requested memory allocation of 1874MiB does not leave room for system overhead (total system memory: 1874MiB). You may face stability issues.
💡  Suggestion: Start minikube with less memory allocated: 'minikube start --memory=1874mb'

📌  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% 3.50 Mi
    > gcr.io/k8s-minikube/kicbase...:  500.31 MiB / 500.31 MiB  100.00% 2.81 Mi
🔥  Creating docker container (CPUs=2, Memory=1874MB) ...
🐳  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
varsh_12@VARSH:~$ minikube status
minikube
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured

varsh_12@VARSH:~$
```

```
varsh_12@VARSH:~$ minikube version
minikube version: v1.35.0
commit: dd5d320e41b5451cdf3c01891bc4e13d189586ed-dirty
varsh_12@VARSH:~$ minikube start
😄  minikube v1.35.0 on Ubuntu 24.04 (amd64)
✨  Using the docker driver based on existing profile

💣  Exiting due to PROVIDER_DOCKER_NOT_RUNNING: deadline exceeded running "docker version --format <no value>-<no value>:<no value>": signal: killed
💡  Suggestion: Restart the Docker service
📘  Documentation: https://minikube.sigs.k8s.io/docs/drivers/docker/

varsh_12@VARSH:~$ kubectl get nodes
NAME       STATUS   ROLES           AGE    VERSION
minikube   Ready    control-plane   158m   v1.32.0
varsh_12@VARSH:~$ kubectl create deployment r1 --image=varsh1204/varsh1204/devops --port=80
deployment.apps/r1 created
varsh_12@VARSH:~$
```

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💡  Restarting the docker service may improve performance.
|-----------|------|-------------|--------------------------|
| NAMESPACE | NAME | TARGET PORT |           URL            |
|-----------|------|-------------|--------------------------|
| default   | r3   |          80 | http://192.168.49.2:30987 |
|-----------|------|-------------|--------------------------|

❌  Exiting due to SVC_UNREACHABLE: service not available: no running pod for service r3 found

    😿  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:
    - /tmp/minikube_service_1f1376dc6c5b6e954e9491fb61dab5e54fc00912_0.log


varsh_12@VARSH:~$ kubectl get nodes
NAME       STATUS   ROLES           AGE    VERSION
minikube   Ready    control-plane   172m   v1.32.0
varsh_12@VARSH:~$ kubectl get svc
NAME         TYPE        CLUSTER-IP       EXTERNAL-IP   PORT(S)        AGE
kubernetes   ClusterIP   10.96.0.1        <none>        443/TCP        172m
r1           NodePort    10.109.150.162   <none>        80:30649/TCP   9m20s
r3           NodePort    10.103.187.39    <none>        80:30987/TCP   71s
varsh_12@VARSH:~$ minikube service r3
|-----------|------|-------------|--------------------------|
| NAMESPACE | NAME | TARGET PORT |           URL            |
|-----------|------|-------------|--------------------------|
| default   | r3   |          80 | http://192.168.49.2:30987 |
|-----------|------|-------------|--------------------------|
🏃  Starting tunnel for service r3.
|-----------|------|-------------|------------------------|
| NAMESPACE | NAME | TARGET PORT |          URL           |
|-----------|------|-------------|------------------------|
| default   | r3   |             | http://127.0.0.1:44433 |
|-----------|------|-------------|------------------------|
🎉  Opening service default/r3 in default browser...
👉  http://127.0.0.1:44433
❗  Because you are using a Docker driver on linux, the terminal needs to be open to run it.
```

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127.0.0.1:44433

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