


## Develop a Multi Stage Dockerfile for container Orchestration

- 
- ```
1rv24mc051_karthikb@karthik-Lenovo-G50-80: ~/DevOps/program2
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~/DevOps$ mkdir program2
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~/DevOps$ ls
program1  program2
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~/DevOps$ cd program2
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~/DevOps/program2$ ls
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~/DevOps/program2$ mkdir src
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~/DevOps/program2$ cd src
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~/DevOps/program2/src$ nano index.js
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~/DevOps/program2/src$ ls
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~/DevOps/program2/src$ nano index.js
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~/DevOps/program2/src$ ls
index.js
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~/DevOps/program2/src$ cd
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~$ cd DevOps
bash: cd: DevOps: No such file or directory
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~$ ls
aws          google-chrome-stable_current_amd64.deb      secondfile
Desktop      Music   snap
DevOps       mysql-apt-config_0.8.32-1_all.deb           Templates
Dockerfile   mysql-workbench-community_8.0.43-1ubuntu24.04_amd64.deb  unit1
Documents    Pictures                                    Videos
Downloads    project1
folder1      Public
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~$ cd DevOps/
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~/DevOps$ ls
program1  program2
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~/DevOps$ cd program2
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~/DevOps/program2$ ls
src
```

```

1rv24mc051_karthikb@karthik-Lenovo-G50-80: ~/DevOps/program2
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~/DevOps$ cd program2
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~/DevOps/program2$ ls
src
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~/DevOps/program2$ nano Dockerfile
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~/DevOps/program2$ ls
src
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~/DevOps/program2$ nano Dockerfile
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~/DevOps/program2$ nano package.json
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~/DevOps/program2$ ls
Dockerfile package.json src
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~/DevOps/program2$ cd src
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~/DevOps/program2/src$ ls
index.js
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~/DevOps/program2/src$ nano index.js
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~/DevOps/program2/src$ docker build -t program2 .
ERROR: permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Head "http://%2Fvar%
2Frun%2Fdocker.sock/_ping": dial unix /var/run/docker.sock: connect: permission denied
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~/DevOps/program2/src$ sudo docker build -t program2 .
[sudo] password for 1rv24mc051_karthikb:
[+] Building 0.2s (1/1) FINISHED                                docker:default
=> [internal] load build definition from Dockerfile                                0.1s
=> => transferring dockerfile: 2B  0.0s
ERROR: failed to build: failed to solve: failed to read Dockerfile: open Dockerfile: no such file or directory
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~/DevOps/program2/src$ cd..
cd..: command not found
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~/DevOps/program2/src$ cd
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~/DevOps$ cd DevOps/
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~/DevOps$ cd program2
1rv24mc051_karthikb@karthik-Lenovo-G50-80:~/DevOps/program2$ sudo docker build -t program2 .
[+] Building 9.6s (7/14)  docker:default
=> [internal] load build definition from Dockerfile                                0.1s

```

- Now From inside program2, build the Docker image (if Dockerfile is present):
- Run the Docker container, mapping port 3000:

[illegible]