

DevOps Lab – Program 1 CREATING A DOCKER FILE

Project Structure:

```
program_1/  
├── Dockerfile  
├── app.py  
└── requirements.txt
```

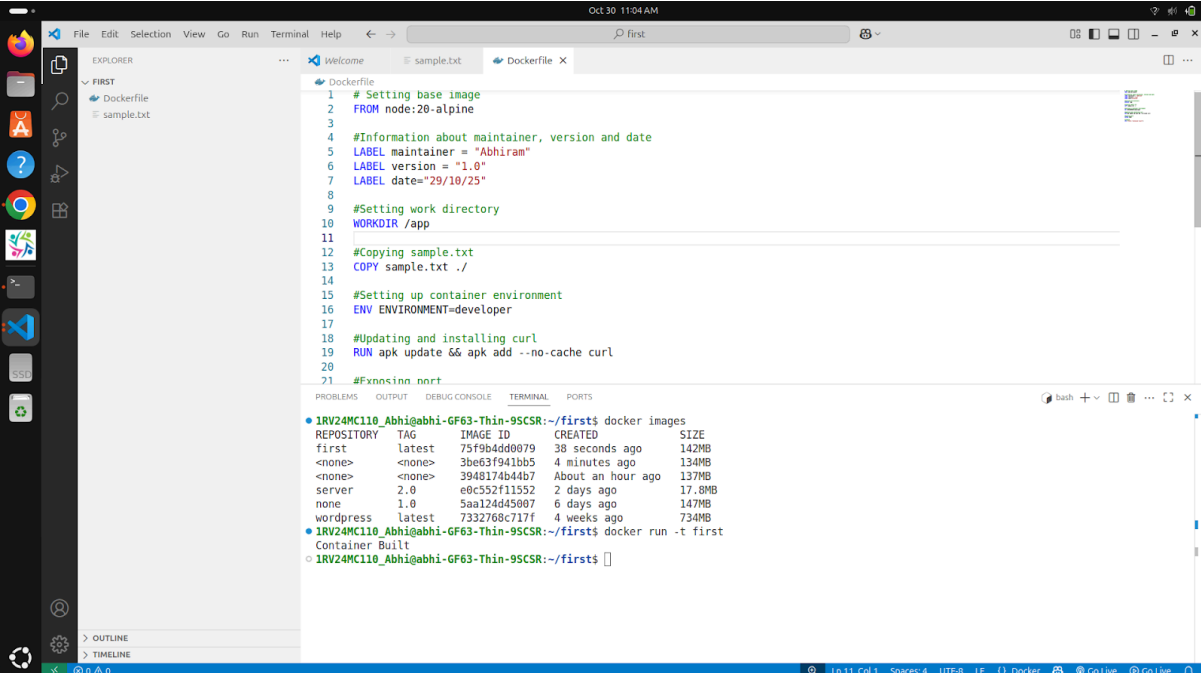
Step 1: Set Up Project Directory

```
mkdir program_1  
cd program_1
```

Step 2 – Create the Dockerfile Open a new Dockerfile: `sudo nano Dockerfile`

Step 3 - Build the image

Step 4 - Run the container



The screenshot shows a VS Code editor with a Dockerfile open. The Dockerfile contains the following content:

```
1 # Setting base image  
2 FROM node:20-alpine  
3  
4 #Information about maintainer, version and date  
5 LABEL maintainer = "Abhiram"  
6 LABEL version = "1.0"  
7 LABEL date="29/10/25"  
8  
9 #Setting work directory  
10 WORKDIR /app  
11  
12 #Copying sample.txt  
13 COPY sample.txt ./  
14  
15 #Setting up container environment  
16 ENV ENVIRONMENT=developer  
17  
18 #Updating and installing curl  
19 RUN apk update && apk add --no-cache curl  
20  
21 #Exposing port
```

The terminal output shows the following commands and results:

```
1RV24MC110_Abhi@abhi-GF63-Thin-95CSR:~/first$ docker images  
REPOSITORY TAG IMAGE ID CREATED SIZE  
first latest 75f9b4dd0079 38 seconds ago 142MB  
<none> <none> 3be63f941bb5 4 minutes ago 134MB  
<none> <none> 3948174b44b7 About an hour ago 137MB  
server 2.0 e8c552f11552 2 days ago 17.8MB  
none 1.0 5aa124d45007 6 days ago 147MB  
wordpress latest 7332768c717f 4 weeks ago 734MB  
  
1RV24MC110_Abhi@abhi-GF63-Thin-95CSR:~/first$ docker run -t first  
Container Built  
1RV24MC110_Abhi@abhi-GF63-Thin-95CSR:~/first$
```