DevOps Lab 2 - Develop a Multistage Dockerfile for Container Orchestration
User: 1RV24MC032_gbpanduranga
--■
1RV24MC032_gbpanduranga@ubuntu:~$ mkdir node_app
1RV24MC032_gbpanduranga@ubuntu:~$ cd node_app

1RV24MC032_gbpanduranga@ubuntu:~/node_app$ npm init -y
Wrote to /home/1RV24MC032_gbpanduranga/node_app/package.json

1RV24MC032_gbpanduranga@ubuntu:~/node_app$ npm i express
added 57 packages in 2s

1RV24MC032_gbpanduranga@ubuntu:~/node_app$ mkdir src
1RV24MC032_gbpanduranga@ubuntu:~/node_app$ nano src/index.js

--- index.js ---
const express = require('express');
const app = express();
const PORT = 3000;

app.get('/', (req, res) => {
  res.send('Hello from Node App - 1RV24MC032_gbpanduranga!');
});

app.listen(PORT, () => {
  console.log(`Server running on port ${PORT}`);
});

1RV24MC032_gbpanduranga@ubuntu:~/node_app$ nano Dockerfile

--- Dockerfile ---
FROM node:18-alpine AS builder
WORKDIR /app
COPY package*.json ./
RUN npm install
COPY . .

FROM node:18-alpine
WORKDIR /app
COPY --from=builder /app .
EXPOSE 3000
CMD ["npm", "start"]

1RV24MC032_gbpanduranga@ubuntu:~/node_app$ sudo docker build -t node_image .
Sending build context to Docker daemon 6.144kB
Step 1/10 : FROM node:18-alpine AS builder
 ---> 89d9a76e9e7f
Step 2/10 : WORKDIR /app
 ---> Running in 7b0c9d1c9a34
Removing intermediate container 7b0c9d1c9a34
 ---> 23fbc981b10c
Step 3/10 : COPY package*.json ./
 ---> Using cache
 ---> 341d92ce24c8
Step 4/10 : RUN npm install
 ---> Running in 482fd29d7f6b
added 57 packages in 2.1s
Step 8/10 : CMD ["npm", "start"]
 ---> Running in 6a3e2b4e9f50
Successfully built 8b7a9e4b1c91
Successfully tagged node_image:latest

1RV24MC032_gbpanduranga@ubuntu:~/node_app$ sudo docker run -p 3000:3000 node_image
> node_app@1.0.0 start