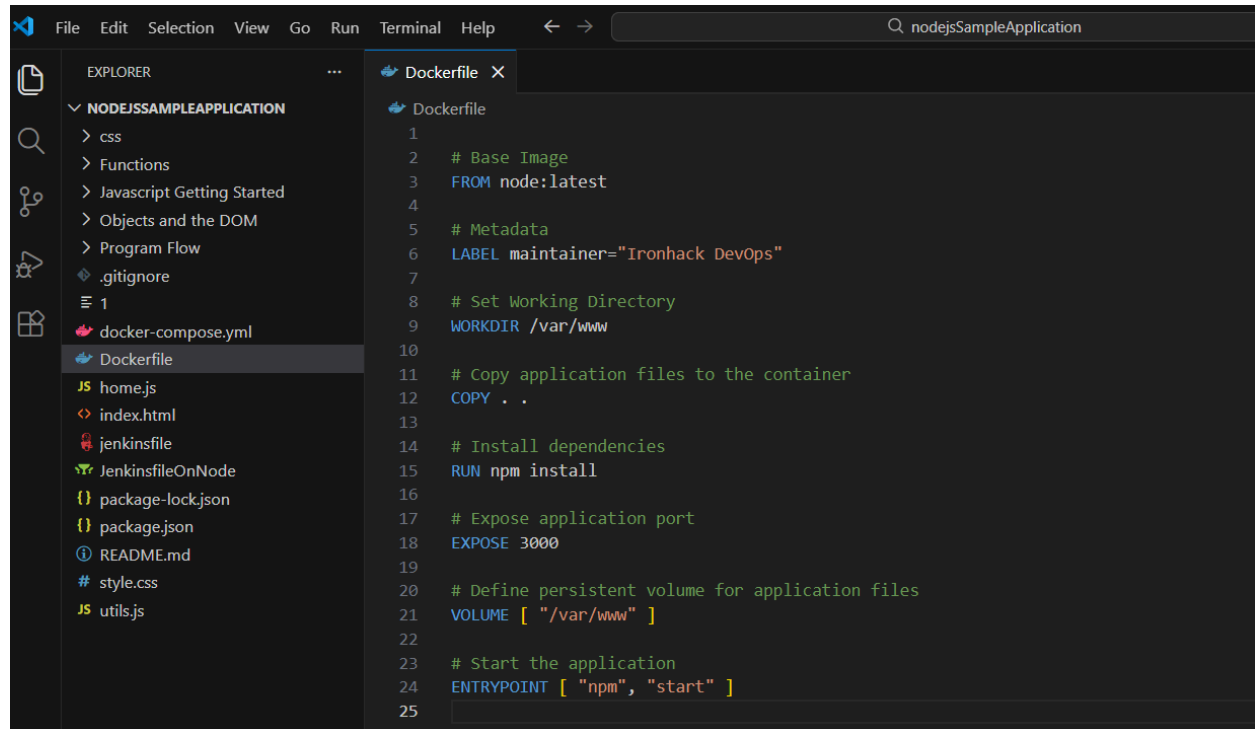


LAB | Build and Deploy a Node.js App Using Docker



The screenshot shows the Visual Studio Code interface. On the left, the Explorer view displays a project named 'NODEJSAMPLEAPPLICATION' with files like 'css', 'Functions', 'Javascript Getting Started', 'Objects and the DOM', 'Program Flow', '.gitignore', '1', 'docker-compose.yml', 'Dockerfile', 'home.js', 'index.html', 'jenkinsfile', 'JenkinsfileOnNode', 'package-lock.json', 'package.json', 'README.md', 'style.css', and 'utils.js'. The 'Dockerfile' is selected. The main editor shows the content of the Dockerfile, which is a multi-line script for building a Docker image.

```
1
2 # Base Image
3 FROM node:latest
4
5 # Metadata
6 LABEL maintainer="Ironhack DevOps"
7
8 # Set Working Directory
9 WORKDIR /var/www
10
11 # Copy application files to the container
12 COPY . .
13
14 # Install dependencies
15 RUN npm install
16
17 # Expose application port
18 EXPOSE 3000
19
20 # Define persistent volume for application files
21 VOLUME [ "/var/www" ]
22
23 # Start the application
24 ENTRYPOINT [ "npm", "start" ]
25
```

```
vijayagla@DESKTOP-FP40P26:~/nodejsSampleApplication$ docker build -t sample-node-app .
failed to fetch metadata: fork/exec /usr/local/lib/docker/cli-plugins/docker-buildx: no such file or directory

DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
             Install the buildx component to build images with BuildKit:
             https://docs.docker.com/go/buildx/

Sending build context to Docker daemon  1.423MB
Step 1/8 : FROM node:latest
latest: Pulling from library/node
6bc9f599b3ef: Pulling fs layer
89edcaae7ec4: Pulling fs layer
bbceb0035429: Pulling fs layer
6dc8224e38b6: Pulling fs layer
dddde450c5b0: Pulling fs layer
de9b91b246f8: Pulling fs layer
0c59397af5a7: Pulling fs layer
697fcc91b93d: Pulling fs layer
6dc8224e38b6: Waiting
dddde450c5b0: Waiting
```

```


vijayagagla@DESKTOP-FP40P26:~/nodejsSampleApplication$ docker image ls
REPOSITORY          TAG         IMAGE ID      CREATED        SIZE
sample-node-app      latest      725336e6a2fc  8 seconds ago  1.19GB
fastapi-app          latest      c3d91ed3d204  3 hours ago   171MB
docker-challenge     v1.1       5ab2631058a2  3 hours ago   124MB
vijayagagla123/python-app  1.0       a9b2dbf242a7  3 hours ago   136MB
node-app             multi      07458c73ae5a  3 hours ago   194MB
<none>              <none>     44fdeafc5cf3  4 hours ago   1.09GB
my-web-app           v1         21e2bc07af57  4 hours ago   140MB
my-first-image       v1         4ff6a15ba88f  4 hours ago   124MB
myrepo/my-image      v1.0       097f9df45115  5 hours ago   8.44MB
node                 latest     7987dcb1dfa1  8 hours ago   1.13GB
python               3.11-slim 4b9bdf9d486  10 hours ago  124MB
postgres             15-alpine  bb506a9728d2  6 days ago    274MB
postgres             16-alpine  d7ead3a9d3fe  6 days ago    276MB
alpine               latest     a40c03cbb81c  6 days ago    8.44MB
ubuntu               latest     493218ed0f40  3 weeks ago   78.1MB
hello-world          latest     1b44b5a3e06a  5 months ago  10.1kB
wagoodman/dive       latest     bebd1bf49b51  10 months ago 59.2MB
vijayagagla@DESKTOP-FP40P26:~/nodejsSampleApplication$ docker run -d -p 9090:3000 sample-node-app
74df77db2b05a6068ed6b6d265c685e4647e8a26f6239e5579730660cab4d02b


```

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localhost:9090

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