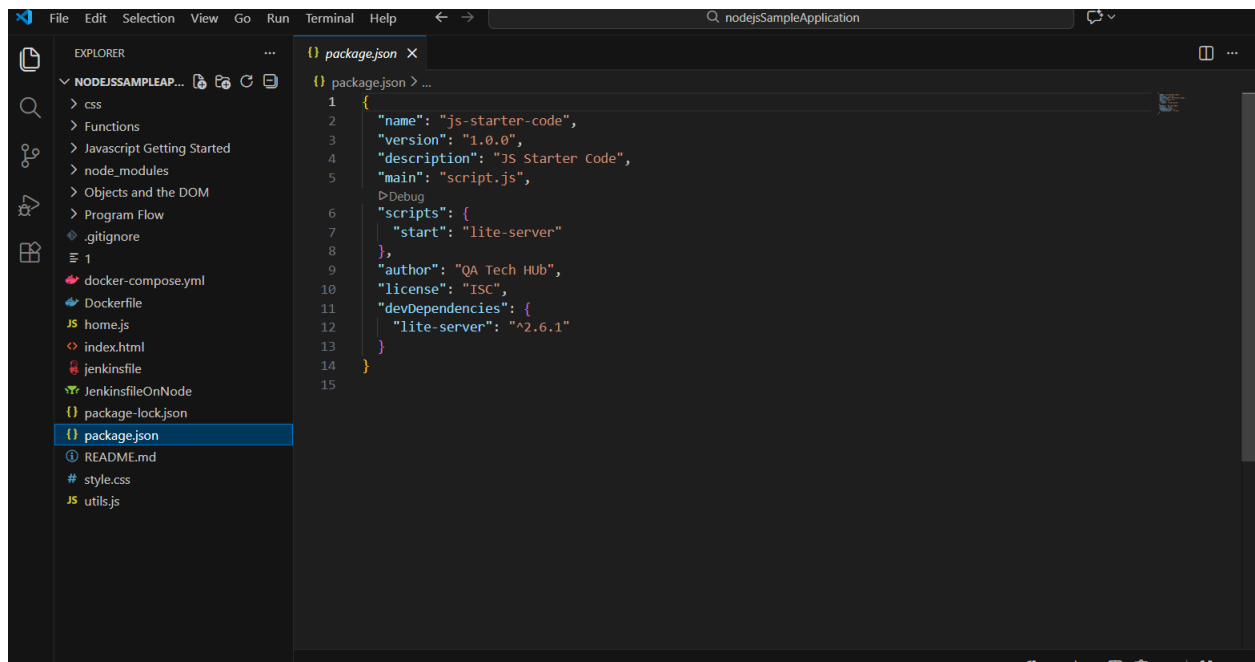


LAB | Build and Deploy a Node.js App Using Docker

TASK 1 – Containerizing a Node.js Application



```
vijayagaglia@DESKTOP-FP40P26:~/nodejsSampleApplication$ npm install --save-dev lite-server
npm WARN old lockfile
npm WARN old lockfile The package-lock.json file was created with an old version of npm,
npm WARN old lockfile so supplemental metadata must be fetched from the registry.
npm WARN old lockfile
npm WARN old lockfile This is a one-time fix-up, please be patient...
npm WARN old lockfile

added 158 packages, and audited 159 packages in 9s

11 packages are looking for funding
  run `npm fund` for details

7 vulnerabilities (2 low, 5 high)

To address issues that do not require attention, run:
  npm audit fix

Some issues need review, and may require choosing
a different dependency.

Run `npm audit` for details.
```

```
vijayagagla@DESKTOP-FP40P26:~/nodejsSampleApplication$ npm start
```

```
> js-starter-code@1.0.0 start
> lite-server
```

Did not detect a `bs-config.json` or `bs-config.js` override file. Using lite-server defaults...

**** browser-sync config ****

```
{
  injectChanges: false,
  files: [ './**/*. {html,htm,css,js}' ],
  watchOptions: { ignored: 'node_modules' },
  server: {
    baseDir: './',
    middleware: [ [Function (anonymous)], [Function (anonymous)] ]
  },
  files: [ './**/*. {html,htm,css,js}' ],
  watchOptions: { ignored: 'node_modules' },
  server: {
    baseDir: './',
    middleware: [ [Function (anonymous)], [Function (anonymous)] ]
  }
}
```

[Browsersync] Access URLs:

```
-----
Local: http://localhost:3000
External: http://172.22.209.161:3000
-----
```

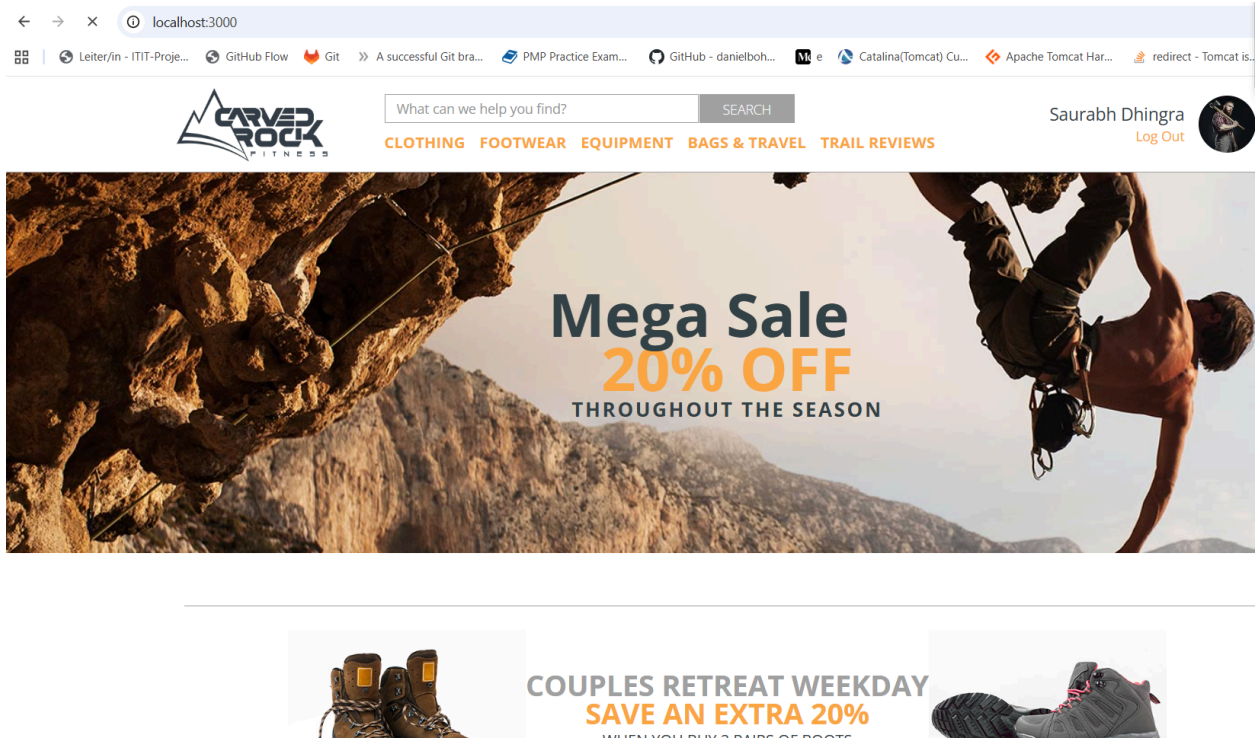
```
UI: http://localhost:3001
UI External: http://localhost:3001
-----
```

```
}
}
```

[Browsersync] Access URLs:

```
-----
Local: http://localhost:3000
Local: http://localhost:3000
External: http://172.22.209.161:3000
-----
```

```
UI: http://localhost:3001
UI External: http://localhost:3001
-----
```



TASK 2 – Writing the Dockerfile

```
File Edit Selection View Go Run Terminal Help
nodejsSampleApplication

EXPLORER
NODEJSSAMPLEAPPLICATION
  > css
  > Functions
  > Javascript Getting Started
  > Objects and the DOM
  > Program Flow
  .gitignore
  1
  docker-compose.yml
  Dockerfile
  JS home.js
  index.html
  jenkinsfile
  JenkinsfileOnNode
  package-lock.json
  package.json
  README.md
  # style.css
  JS utils.js

Dockerfile
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
```

```
viyayagagla@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
```

```
viyayagagla@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
viyayagagla123/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	4b9bdf9e9d486	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

```
viyayagagla@DESKTOP-FP40P26:~/nodejsSampleApplication$ docker run -d -p 9090:3000 sample-node-app
```

```
74df77db2b05a6068ed6b6d265c685e4647e8a26f6239e5579730660cab4d02b
```



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