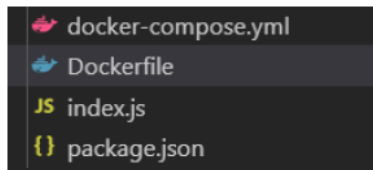


Task 2 Description:

Create a dockerfile, docker-compose file which when executed must display your basic details in the website.

We need 4 files require to containerize.



Dockerfile

```
[ec2-user@ip-172-31-22-49 dockerfolder]$ cat dockerfile
FROM node:latest
WORKDIR /app
COPY package*.json ./
RUN npm install
COPY . .
CMD [ "npm" , "start" ]
```

Index.js

```
[ec2-user@ip-172-31-22-49 dockerfolder]$ cat index.html
<!-- index.html -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Hello Docker</title>
</head>
<body>
  <h1>Hello, Docker Its is my Website!</h1>
  <p>This is a simple static page served by Nginx.</p>
</body>
</html>
[ec2-user@ip-172-31-22-49 dockerfolder]$ touch index.js
[ec2-user@ip-172-31-22-49 dockerfolder]$ vi index.js
[ec2-user@ip-172-31-22-49 dockerfolder]$ cat index.js
const express = require('express');
const app = express();
const PORT = 3000;

//your personal details
const details = {
  name: "Un Jilani",
  profession: "Security Engineer",
  description: "A extraordinary guy with full of energy"
};

// Route to display your details
app.get('/', (req, res) => {
  res.send(`
    <h1>Personal Details</h1>
    <p><strong>Name:</strong> ${details.name}</p>
    <p><strong>Profession:</strong> ${details.profession}</p>
```

Package.json

```
[ec2-user@ip-172-31-22-49 dockerfolder]$ cat package.json
{
  "name": "personal-details-app",
  "version": "1.0.0",
  "description": "A sample json application displays personal details",
  "main": "index.js",
  "scripts": {
    "start": "node index.js"
  },
  "dependencies": {
    "express": "4.21.1"
  },
  "devDependencies": {},
  "keywords": [],
  "author": "Umer Jilani",
  "license": "ISC"
}
[ec2-user@ip-172-31-22-49 dockerfolder]$
```

Docker-compose.yml

```
[ec2-user@ip-172-31-22-49 dockerfolder]$ cat docker-compose.yml
version: '3.8'

services:
  web:
    build: .
    ports:
      - "3000:3000"
[ec2-user@ip-172-31-22-49 dockerfolder]$
```

Docker-compose up - building the container with Node services

```
[ec2-user@ip-172-31-22-49 dockerfolder]$ docker-compose up
Creating network "dockerfolder_default" with the default driver
Building web
Step 1/6 : FROM node:latest
latest: Pulling from library/node
7d98d813d54f: Pull complete
da802df85c96: Pull complete
7aad5092c3b: Pull complete
ad1c7cfc347f: Pull complete
31756e86da1f: Pull complete
0cbcaed71716: Pull complete
6ffdeb0303bd: Pull complete
9eda819a4f16: Pull complete
Digest: sha256:840dad0077213cadd2d734d542ae11cd0f648200be29504eb1b6e2c995d2b75a
Status: Downloaded newer image for node:latest
---> f7dc0beaca7e
Step 2/6 : WORKDIR /app
---> Running in 22925af29548
---> Removed intermediate container 22925af29548
---> e45d1867d400
Step 3/6 : COPY package*.json ./
---> 4c639d30350d
Step 4/6 : RUN npm install
---> Running in d0abb1baaa76

added 65 packages, and audited 66 packages in 5s

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

found 0 vulnerabilities
---> Removed intermediate container d0abb1baaa76
---> 6cfc593f721a
Step 5/6 : COPY . .
---> cc156725f558
Step 6/6 : CMD [ "npm" , "start" ]
---> Running in 1bbeab22460b
---> Removed intermediate container 1bbeab22460b
---> 25ff305989ee

Successfully built 25ff305989ee
Successfully tagged dockerfolder_web:latest
WARNING: Image for service web was built because it did not already exist. To rebuild this image you must use `docker-compose build` or `docker-compose up --build`.
Creating dockerfolder_web_1 ... done
Attaching to dockerfolder_web_1
web_1 |
web_1 | > personal-details-app@1.0.0 start
web_1 | > node index.js
web_1 |
web_1 | Server is running on http://localhost:3000
```

Docker ps

```
[ec2-user@ip-172-31-22-49 ~]$ docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
1b64faa0c176	dockerfolder_web	"docker-entrypoint.s..."	3 minutes ago	Up 3 minutes	0.0.0.0:3000->3000/tcp, :::3000->3000/tcp	dockerfolder_web_1

Docker-compose up – list the container

```
[ec2-user@ip-172-31-22-49 dockerfolder]$ docker-compose ps
```

Name	Command	State	Ports
dockerfolder_web_1	docker-entrypoint.sh npm start	Up	0.0.0.0:3000->3000/tcp, :::3000->3000/tcp

I can access App via curl command and is working.

```
[ec2-user@ip-172-31-22-49 dockerfolder]$ curl -i http://localhost:3000
```

HTTP/1.1 200 OK
X-Powered-By: Express
Content-Type: text/html; charset=utf-8
Content-Length: 229
ETag: W/"e5-LlSJfeOniIr5ElA2dc61VNmR0rw"
Date: Wed, 06 Nov 2024 20:46:33 GMT
Connection: keep-alive
Keep-Alive: timeout=5

```
<h1>Personal Details</h1>
<p><strong>Name:</strong> Un Jilani</p>
<p><strong>Profession:</strong> Security Engineer</p>
<p><strong>Description:</strong> A extraordinary guy with full of energy</p>
```

Docker-compose down

```
[ec2-user@ip-172-31-22-49 dockerfolder]$ docker-compose down
```

Removing dockerfolder_web_1 ... done
Removing network dockerfolder_default

```
[ec2-user@ip-172-31-22-49 dockerfolder]$ docker-compose ps
```

Name	Command	State	Ports
------	---------	-------	-------