EXPLORER

∨ API
> models
> node_modules
> routes
.dockerignore
.env
.gitignore
dockerfile
{} package-lock.json
{} package.json
JS server.js

dockerfile ×

dockerfile > ...

```dockerfile
 5    RUN npm install
 6    COPY . .
 7
 8    # Run stage
 9    FROM node:18-slim
10    WORKDIR /app
11    COPY --from=builder /app .
12    EXPOSE 3000
13
14    HEALTHCHECK --interval=30s --timeout=5s --start-period=10s CMD curl --fail http://localhost:3000 || exit 1
15
16    CMD ["node", "server.js"]
17
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
saeedqj@SaeedQJ-PC:/mnt/d/Szabist/DevOPs/Docker Assignment/docker-microservices/api$ docker build -t api-service ../api
[+] Building 98.5s (5/13)                                                                                                 docker:default
 => [builder 1/5] FROM docker.io/library/node:18@sha256:c6ae79e38498325db67193d391e6ec1d224d96c693a8a4d943498556716d3783   91.1s
 => => sha256:c6ae79e38498325db67193d391e6ec1d224d96c693a8a4d943498556716d3783 6.41kB / 6.41kB                             0.0s
 => => sha256:eb29363371ee2859fad6a3c5af88d4abc6ff7d399addb13b7de3c1f11bdee6b9 2.49kB / 2.49kB                             0.0s
 => => sha256:b50082bc3670d0396b2d90e4b0e5bb10265ba5d0ee16bf40f9a505f7045ee563 6.39kB / 6.39kB                             0.0s
 => => sha256:3e6b9d1a95114e19f12262a4e8a59ad1d1a10ca7b82108adcf0605a200294964 48.49MB / 48.49MB                           30.3s
 => => sha256:37927ed901b1b2608b72796c6881bf645480268eca4ac9a37b9219e050bb4d84 24.02MB / 24.02MB                           39.3s
 => => sha256:79b2f47ad4443652b9b5cc81a95ede249fd976310efdbee159f29638783778c0 59.77MB / 64.40MB                           91.0s
 => => sha256:e23f099911d692f62b851cf49a1e93294288a115f5cd2d014180e4d3684d34ab 42.99MB / 211.36MB                          91.0s
 => => extracting sha256:3e6b9d1a95114e19f12262a4e8a59ad1d1a10ca7b82108adcf0605a200294964                                  8.4s
 => => sha256:cda7f44f2bddcc4bb7514474024b3f3705de00ddb6355a33be5ac7808e5b7125 3.32kB / 3.32kB                             39.8s
 => => extracting sha256:37927ed901b1b2608b72796c6881bf645480268eca4ac9a37b9219e050bb4d84                                  2.1s
 => => sha256:c6b30c3f16966552af10ac00521f60355b1fcfd46ac1c20b1038587e28583ce7 39.85MB / 45.68MB                           91.0s
 => [stage-1 1/3] FROM docker.io/library/node:18-slim@sha256:f9ab18e354e6855ae56ef2b290dd225c1e51a564f87584b9bd21dd651838830e  91.1s
 => => resolve docker.io/library/node:18-slim@sha256:f9ab18e354e6855ae56ef2b290dd225c1e51a564f87584b9bd21dd651838830e       0.0s
 => => sha256:f9ab18e354e6855ae56ef2b290dd225c1e51a564f87584b9bd21dd651838830e 6.49kB / 6.49kB                             0.0s
 => => sha256:fc3faf127a182135fd956e68d3705b1932a758f8008866d8dd6e131cf89de9605 1.93kB / 1.93kB                            0.0s
 => => sha256:101e0128c8ea90af6e5eba2abbae8486503c6383c35cb30e2c60842a5a288479 6.54kB / 6.54kB                             0.0s
 => [internal] load build context                                                                                          0.2s
 => => transferring context: 54.15kB                                                                                       0.1s
```

Ln 16, Col 26   Spaces: 4   UTF-8   CRLF   {} Dockerfile

```
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

saeedqj@SaeedQJ-PC:~$
saeedqj@SaeedQJ-PC:~$ docker volume create mongo-data
mongo-data
saeedqj@SaeedQJ-PC:~$ docker network create app-network
3dc857e0366c3a1a7baab54a3f8524566e4726c173e5e762f18a86d10938a5a1
saeedqj@SaeedQJ-PC:~$ docker container run -d --name mongo-container --network app-network -v mongo-data:/data
/db -e MONGO_INITDB_ROOT_USERNAME=root -e MONGO_INITDB_ROOT_PASSWORD=saeed123 mongo
Unable to find image 'mongo:latest' locally
latest: Pulling from library/mongo
d9d352c11bbd: Pull complete
0a4282d2a9c9: Pull complete
e88cb4c0b31e: Pull complete
06b43d55bbbc: Pull complete
697905244caf: Pull complete
ebd0c6090698: Pull complete
3e961522d85c: Downloading  119.5MB/259.8MB
35581a5e0588: Download complete
```

```
saeedqj@SaeedQJ-PC:~$ docker container run -d --name api-container --network app-network  -p 3000:3000 api-ser
vice
27942cfb9edcdf0d9a994d85450cf35e8bfd1701c65bcef21a620dbb295d67bd
saeedqj@SaeedQJ-PC:~$ curl http://localhost:3000/
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<title>Error</title>
</head>
<body>
<pre>Cannot GET /</pre>
</body>
</html>
saeedqj@SaeedQJ-PC:~$ curl http://localhost:3000/api/users
[{"_id":"685a8254fd6ba606bf1706cc","name":"Jamil","email":"abc.123@gmail.com","password":"abc123","createdAt":
"2025-06-24T10:47:48.040Z","__v":0},{"_id":"685a86323a197f2e764d4f94","name":"Saeed","email":"abcd.123@gmail.c
om","password":"abc123","createdAt":"2025-06-24T11:04:18.389Z","__v":0}]saeedqj@SaeedQJ-PC:~$ ^C
saeedqj@SaeedQJ-PC:~$ ^C
saeedqj@SaeedQJ-PC:~$
```

saeedqj@SaeedQJ-PC:~$ docker logs api-container
(node:1) [MONGODB DRIVER] Warning: useNewUrlParser is a deprecated option: useNewUrlParser has no effect since
 Node.js Driver version 4.0.0 and will be removed in the next major version
(Use `node --trace-warnings ...` to show where the warning was created)
(node:1) [MONGODB DRIVER] Warning: useUnifiedTopology is a deprecated option: useUnifiedTopology has no effect
 since Node.js Driver version 4.0.0 and will be removed in the next major version
Server is running on port 3000
MongoDB connected successfully
saeedqj@SaeedQJ-PC:~$

saeedqj@SaeedQJ-PC: ~

Waiting for authentication in the browser…
Login Succeeded
saeedqj@SaeedQJ-PC:~$ docker push bcsbs2212302/mongo:v1
The push refers to repository [docker.io/bcsbs2212302/mongo]
2efbb75f3b44: Mounted from library/mongo
be3760a797af: Mounted from library/mongo
76c2b8fe8b7f: Mounted from library/mongo
46908bd08046: Mounted from library/mongo
2d02395a5aa7: Mounted from library/mongo
ae4734e1c5a4: Mounted from library/mongo
1c395636d063: Mounted from library/mongo
a8346d259389: Mounted from library/mongo
v1: digest: sha256:cfd70960bbd27e49a1521eb9dabde7045e4aeeff1cfdf13df9d856d524b2468a size: 1994
saeedqj@SaeedQJ-PC:~$ docker push bcsbs2212302/api-service:v1
The push refers to repository [docker.io/bcsbs2212302/api-service]
b5c08d6e1b7a: Pushed
5b40ad7b484b: Pushed
e1e93a4fa4fd: Mounted from library/node
9b95ddc8a140: Mounted from library/node
cd1cd7c2e57b: Mounted from library/node
206f13f5e317: Mounted from library/node
ace34d1d784c: Mounted from library/node
v1: digest: sha256:b134e781e748acdcd4f95fa142f29747366af7abfe1e06a0d860b8fe12954d72 size: 1784
saeedqj@SaeedQJ-PC:~$ ^C