```dockerfile
# Use the base image from Docker Hub
FROM node:20-alpine

# Set the working directory
WORKDIR /app

# Copy the package.json and package-lock.json files
COPY package*.json ./

# install the dependencies
RUN npm install

# Copy the rest of the application files
COPY . .

# Expose the port your app will run on
EXPOSE 5173

# Start the application
CMD [ "npm" , "run" , "dev" ]
```

```
PS C:\Users\Avishka\Documents\Git_Hub_Clone\React-with-Docker> docker build -t react_image .
 [+] Building 18.3s (11/11) FINISHED
  => [internal] load build definition from Dockerfile
  => => transferring dockerfile: 434B
  => [internal] load metadata for docker.io/library/node:20-alpine
  => [auth] library/node:pull token for registry-1.docker.io
  => [internal] load .dockerignore
  => => transferring context: 34B
  => [1/5] FROM docker.io/library/node:20-alpine@sha256:8bda036ddd59ea51a23bc1a1035d3b5c614e72c01366d989f4120e8adca196d4
  => => resolve docker.io/library/node:20-alpine@sha256:8bda036ddd59ea51a23bc1a1035d3b5c614e72c01366d989f4120e8adca196d4
  => [internal] load build context
  => => transferring context: 54.45MB
  => CACHED [2/5] WORKDIR /app
  => [3/5] COPY package*.json ./
  => [4/5] RUN npm install
  => [5/5] COPY . .
  => exporting to image
  => => exporting layers
  => => exporting manifest sha256:dbf481652d5f2adee109e5c5d6e4172179f527a48e352aed31dfcc450681373f
  => => exporting config sha256:33e1fa737cabc501931ba8f7ec1c6550cd7371004351e87e3e9ca59efd4aac36
  => => exporting attestation manifest sha256:2bd6bea20b10149d7643a087a29e3231e3a9cced6a6eb71c1cf315ec42d624f4
  => => exporting manifest list sha256:67cbed326b7baeb8664289144b14d09ed964e55d13cfeb7399c9f832b85525ee
  => => naming to docker.io/library/react_image:latest
  => => unpacking to docker.io/library/react_image:latest
```

```
OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS    DEVDB

PS C:\Users\Avishka\Documents\Git_Hub_Clone\React-with-Docker> docker images
REPOSITORY      TAG       IMAGE ID        CREATED          SIZE
react_image     latest    67cbed326b7b    2 minutes ago    377MB
simple-image    latest    3cc4ec413fe6    19 hours ago     201MB
PS C:\Users\Avishka\Documents\Git_Hub_Clone\React-with-Docker>
```

```
PS C:\Users\Avishka\Documents\Git_Hub_Clone\React-with-Docker> docker run --name react_container -p 3000:5173 react_image

> react-with-docker@0.0.0 dev
> vite

7:33:49 AM [vite] (client) Re-optimizing dependencies because vite config has changed

  VITE v6.2.2  ready in 228 ms

  ➜  Local:   http://localhost:5173/
  ➜  Network: use --host to expose
```

```
PS C:\Users\Avishka\Documents\Git_Hub_Clone\React-with-Docker> docker ps
CONTAINER ID   IMAGE         COMMAND                CREATED          STATUS          PORTS                    NAMES
56d9f9ed5b6a   react_image   "docker-entrypoint.s…" 32 seconds ago   Up 32 seconds   0.0.0.0:3000->5173/tcp   react_container
PS C:\Users\Avishka\Documents\Git_Hub_Clone\React-with-Docker>
```

```
PS C:\Users\Avishka\Documents\Git_Hub_Clone\React-with-Docker> docker ps
CONTAINER ID   IMAGE         COMMAND                CREATED          STATUS          PORTS                    NAMES
56d9f9ed5b6a   react_image   "docker-entrypoint.s…" 32 seconds ago   Up 32 seconds   0.0.0.0:3000->5173/tcp   react_container
PS C:\Users\Avishka\Documents\Git_Hub_Clone\React-with-Docker> docker ps -a
CONTAINER ID   IMAGE         COMMAND                CREATED          STATUS          PORTS                    NAMES
56d9f9ed5b6a   react_image   "docker-entrypoint.s…" 2 minutes ago    Up 2 minutes    0.0.0.0:3000->5173/tcp   react_container
PS C:\Users\Avishka\Documents\Git_Hub_Clone\React-with-Docker>
```

Container CPU usage (i)

No containers are running.

Container memory usage (i)

No containers are running.

Show charts

		Name	Container ID	Image	Port(s)	CPU (%)	Last start	Actions
☐	▷ ○	react_container	56d9f9ed5b6a	react_imag	3000:5173	N/A	7 minutes	▷ ⋮ 🗑

🔍 Search   ▯▯ ⬤ Only show running containers

```
OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS    DEVDB


● PS C:\Users\Avishka\Documents\Git_Hub_Clone\React-with-Docker> docker stop react_container
  react_container
○ PS C:\Users\Avishka\Documents\Git_Hub_Clone\React-with-Docker>
```

```
PS C:\Users\Avishka\Documents\Git_Hub_Clone\React-with-Docker> docker images
REPOSITORY      TAG       IMAGE ID        CREATED           SIZE
react-image2    latest    251ceed3e1ab    5 minutes ago     377MB
react_image     latest    67cbed326b7b    22 minutes ago    377MB
simple-image    latest    3cc4ec413fe6    20 hours ago      201MB
PS C:\Users\Avishka\Documents\Git_Hub_Clone\React-with-Docker>
```

```
PS C:\Users\Avishka\Documents\Git_Hub_Clone\React-with-Docker> docker images
REPOSITORY      TAG       IMAGE ID       CREATED          SIZE
react-image2    latest    251ceed3e1ab   7 minutes ago    377MB
react_image     latest    67cbed326b7b   24 minutes ago   377MB
simple-image    latest    3cc4ec413fe6   20 hours ago     201MB
PS C:\Users\Avishka\Documents\Git_Hub_Clone\React-with-Docker> docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED          STATUS                     PORTS                    NAMES
ed82ee743c7b   react-image2   "docker-entrypoint.s…"   6 minutes ago    Up 6 minutes               0.0.0.0:3000->5173/tcp   react-container2
56d9f9ed5b6a   react_image    "docker-entrypoint.s…"   17 minutes ago   Exited (143) 10 minutes ago                         react_container
PS C:\Users\Avishka\Documents\Git_Hub_Clone\React-with-Docker> docker container rm react_container
react_container
PS C:\Users\Avishka\Documents\Git_Hub_Clone\React-with-Docker> docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED         STATUS         PORTS                    NAMES
ed82ee743c7b   react-image2   "docker-entrypoint.s…"   7 minutes ago   Up 7 minutes   0.0.0.0:3000->5173/tcp   react-container2
PS C:\Users\Avishka\Documents\Git_Hub_Clone\React-with-Docker>
```

```
PS C:\Users\Avishka\Documents\Git_Hub_Clone\React-with-Docker> docker images
REPOSITORY      TAG       IMAGE ID       CREATED          SIZE
react-image2    latest    251ceed3e1ab   7 minutes ago    377MB
react_image     latest    67cbed326b7b   24 minutes ago   377MB
simple-image    latest    3cc4ec413fe6   20 hours ago     201MB
PS C:\Users\Avishka\Documents\Git_Hub_Clone\React-with-Docker> docker ps -a
CONTAINER ID    IMAGE          COMMAND                 CREATED          STATUS                    PORTS                     NAMES
ed82ee743c7b    react-image2   "docker-entrypoint.s…"  6 minutes ago    Up 6 minutes              0.0.0.0:3000->5173/tcp    react-container2
56d9f9ed5b6a    react_image    "docker-entrypoint.s…"  17 minutes ago   Exited (143) 10 minutes ago                         react_container
PS C:\Users\Avishka\Documents\Git_Hub_Clone\React-with-Docker> docker container rm react_container
react_container
PS C:\Users\Avishka\Documents\Git_Hub_Clone\React-with-Docker> docker ps -a
CONTAINER ID    IMAGE          COMMAND                 CREATED          STATUS          PORTS                     NAMES
ed82ee743c7b    react-image2   "docker-entrypoint.s…"  7 minutes ago    Up 7 minutes    0.0.0.0:3000->5173/tcp    react-container2
PS C:\Users\Avishka\Documents\Git_Hub_Clone\React-with-Docker> docker image rm react_image
Untagged: react_image:latest
Deleted: sha256:67cbed326b7baeb8664289144b14d09ed964e55d13cfeb7399c9f832b85525ee
PS C:\Users\Avishka\Documents\Git_Hub_Clone\React-with-Docker> docker images
REPOSITORY      TAG       IMAGE ID       CREATED          SIZE
react-image2    latest    251ceed3e1ab   10 minutes ago   377MB
simple-image    latest    3cc4ec413fe6   20 hours ago     201MB
PS C:\Users\Avishka\Documents\Git_Hub_Clone\React-with-Docker>
```

🐳 Dockerfile > ...

```dockerfile
1    # Use the base image from Docker Hub
2    FROM node:20-alpine
3
4    # Set the working directory
5    WORKDIR /app
```

OUTPUT   DEBUG CONSOLE   **TERMINAL**   PORTS   DEVDB

```
PS C:\Users\Avishka\Documents\Git_Hub_Clone\React-with-Docker> docker run --name react_with_volumC -p 4000:5173 --rm -v /app/node_modules -v "${PWD}:/app" -e CHOKIDAR_USEPOLLING=true react-image
2

> react-with-docker@0.0.0 dev
> vite --host 0.0.0.0

8:49:48 AM [vite] (client) Re-optimizing dependencies because vite config has changed

  VITE v6.2.2  ready in 215 ms

  ➜ Local:   http://localhost:5173/
  ➜ Network: http://172.17.0.3:5173/
```