

DEPLOYMENT OF APP IN IBM CLOUD

Containerize The App

Date	08 November, 2022
Team ID	PNT2022TMID00855
Project Name	Plasma Donor Application

Dockerfile

```
FROM node:16 AS build
```

```
WORKDIR /app
```

```
COPY package.json ./
```

```
COPY package-lock.json ./
```

```
RUN npm install
```

```
COPY . ./
```

```
RUN npm run build
```

```
FROM nginx:1.19-alpine
```

```
COPY --from=build /app/public /usr/share/nginx/html
```

Visual Studio Code interface showing a Dockerfile and its build output.

EXPLORER

- PLASMA DONOR APPLICATION
 - code
 - dist
 - node_modules
 - public
 - src
 - .dockerignore
 - .gitignore
 - .prettierrc.json
 - Dockerfile
 - index.html
 - jsconfig.json
 - netlify.toml
 - package-lock.json
 - package.json
 - postcss.config.js
 - README.md
 - style-guide.md
 - tailwind.config.js
 - vite.config.js

Dockerfile

```
1 FROM node:16 AS build
2
3 WORKDIR /app
4
5 COPY package.json ./
6 COPY package-lock.json ./
7 RUN npm install
8 COPY . ./
9 RUN npm run build
10
11 FROM nginx:1.19-alpine
12 COPY --from=build /app/public /usr/share/nginx/html
```

TERMINAL

```
Microsoft Windows [Version 10.0.19044.2130]
(c) Microsoft Corporation. All rights reserved.

E:\Downloads\Web course\Web projects\Plasma Donor Application>docker build . -t svelte-docker
[+] Building 337.6s (16/16) FINISHED
=> [internal] load build definition from Dockerfile                                0.1s
=> => transferring dockerfile: 32B                                              0.0s
=> [internal] load .dockerignore                                                 0.1s
=> => transferring context: 58B                                                0.0s
=> [internal] load metadata for docker.io/library/nginx:1.19-alpine             1.1s
=> [internal] load metadata for docker.io/library/node:16                      1.2s
=> [build 1/7] FROM docker.io/library/node:16@sha256:496085d0cd8edf49c97ec86ac11bed85b6f965d9b29885887bb0edba26549b07 320.3s
=> => resolve docker.io/library/node:16@sha256:496085d0cd8edf49c97ec86ac11bed85b6f965d9b29885887bb0edba26549b07 0.1s
=> => sha256:496085d0cd8edf49c97ec86ac11bed85b6f965d9b29885887bb0edba26549b07 776B / 776B 0.0s
=> => sha256:fd31ec14dcccda8f2472547f1a94ef0a23b8dabb764cd7b1d48aee0a0fea7c8 50.45MB / 50.45MB 155.2s
=> => sha256:cbdf1efa5831eba5a41fb209c6f56967289379199c6992b204f99b301f6f1205 2.21kB / 2.21kB 0.0s
```

STATUS BAR

Ln 1, Col 13 | Spaces: 4 | UTF-8 | CRLF | Dockerfile | Go Live | 214 B | Spell | Prettier

Windows taskbar: Type here to search | Raining now | 11:54 AM | 12-11-2022

Visual Studio Code interface showing a Dockerfile and its build output.

EXPLORER

- PLASMA DONOR APPLICATION
 - .vscode
 - dist
 - node_modules
 - public
 - src
 - .dockerignore
 - .gitignore
 - .prettierrc.json
 - Dockerfile
 - index.html
 - jsconfig.json
 - netlify.toml
 - package-lock.json
 - package.json
 - postcss.config.js
 - README.md
 - style-guide.md
 - tailwind.config.js
 - vite.config.js
- OUTLINE
- TIMELINE

Dockerfile

```
1 FROM node:16 AS build
2
3 WORKDIR /app
4
5 COPY package.json ./
6 COPY package-lock.json ./
7 RUN npm install
8 COPY . ./
9 RUN npm run build
10
11 FROM nginx:1.19-alpine
12 COPY --from=build /app/public /usr/share/nginx/html
```

TERMINAL

```
=> => extracting sha256:f1ac0452e7a7ce5a9781502e1bca3360740aa17c776748eb301c26ca8f5b294a 6.3s
=> => extracting sha256:7a53749a183a965085e17a671ec23dd3531d7db1f33675510464db37004814f3 0.0s
=> => extracting sha256:cdd5d5e2c2112bc1d40abde4b75d6c8fcc684dc8550f63aba740439be7bd62e4 1.2s
=> => extracting sha256:5b97ac1cb7dedf622e127933f76533154651965d2992141df4a4ace9839c2834 0.1s
=> => extracting sha256:d05e77034f9fc3094d27aa7420eb460de7634b0b3ccfe659c0fc8a9e863cfb2f 0.0s
=> CACHED [stage-1 1/2] FROM docker.io/library/nginx:1.19-alpine@sha256:07ab71a2c8e4ecb19a5a5abcfb3a4f175946c001c8af288b1aa766d67b0d05d2 0.0s
=> [internal] load build context 0.1s
=> => transferring context: 2.78kB 0.0s
=> [auth] library/node:pull token for registry-1.docker.io 0.0s
=> [build 2/7] WORKDIR /app 3.2s
=> [build 3/7] COPY package.json ./ 0.1s
=> [build 4/7] COPY package-lock.json ./ 0.1s
=> [build 5/7] RUN npm install 9.1s
=> [build 6/7] COPY . ./ 0.1s
=> [build 7/7] RUN npm run build 2.8s
=> [stage-1 2/2] COPY --from=build /app/public /usr/share/nginx/html 0.1s
=> exporting to image 0.2s
=> => exporting layers 0.1s
=> => writing image sha256:c0aa65aef78c21a5c8227b3bbd20f9a484479b2b369e95b633a74ba98abea647 0.0s
=> => naming to docker.io/library/svelte-docker 0.0s

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them

E:\Downloads\Web course\Web projects\Plasma Donor Application>docker scan
Docker Scan relies upon access to Snyk, a third party provider, do you consent to proceed using Snyk? (y/N)
y
Usage: docker scan [OPTIONS] IMAGE

A tool to scan your images
```

Ln 12, Col 52 Spaces: 4 UTF-8 CRLF Dockerfile Go Live 214 B Spell Prettier

Raining now 11:55 AM 12-11-2022

Visual Studio Code interface showing a Dockerfile and Docker Desktop extension.

EXPLORER

- PLASMA DONOR APPLICATION
 - .vscode
 - dist
 - node_modules
 - public
 - src
 - .dockerignore
 - .gitignore
 - .prettierrc.json
 - Dockerfile
 - index.html
 - jsconfig.json
 - netlify.toml
 - package-lock.json
 - package.json
 - postcss.config.cjs
 - README.md
 - style-guide.md
 - tailwind.config.cjs
 - vite.config.js

Dockerfile

```
1 FROM node:16 AS build
2
3 WORKDIR /app
```

Docker Desktop (Upgrade plan)

Containers

Images

Volumes

Dev Environments **BETA**

Extensions **BETA**

Add Extensions

Images on disk (Last refresh: Never, 1 images, Refresh to see disk usage, Clean up)

Images (Give feedback)

LOCAL (REMOTE REPOSITORIES)

Search

☐ In use only

NAME ↑	TAG	IMAGE ID	CREATED	SIZE
svelte-docker	latest	c0aa65aef78c	less than a minute ago	25.57 MB

RAM 3.85GB CPU 0.12% Connected to Hub v4.13.0

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them

E:\Downloads\Web course\Web projects\Plasma Donor Application>docker scan

Docker Scan relies upon access to Snyk, a third party provider, do you consent to proceed using Snyk? (y/N)

y

Usage: docker scan [OPTIONS] IMAGE

A tool to scan your images

Ln 12, Col 52 Spaces: 4 UTF-8 CRLF Dockerfile Go Live 214 B Spell Prettier

11:55 AM 12-11-2022

File Edit Selection View Go Run Terminal Help

Dockerfile - Plasma Donor Application - Visual Studio Code

EXPLORER

PLASMA DONOR APPLICATION

- .vscode
- dist
- node_modules
- public
- src
 - .dockerignore
 - .gitignore
 - .prettierrc.json
 - Dockerfile
 - index.html
 - jsconfig.json
 - netlify.toml
 - package-lock.json
 - package.json
 - postcss.config.js
 - README.md
 - style-guide.md
 - tailwind.config.js
 - vite.config.js

Dockerfile x .dockerignore

Dockerfile > ...

```
1 FROM node:16 AS build
2
3 WORKDIR /app
```

Docker Desktop Upgrade plan

Containers Give feedback

A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. [Learn more](#)

☐ Only show running containers

	NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
<input type="checkbox"/>	svelte-docker b49b41bab2d9	svelte-docker:latest	Running	5000:80	3 minutes ago	<div></div>

Showing 1 items

RAM 3.87GB CPU 0.00% Connected to Hub

172.17.0.1 - - [12/Nov/2022:06:30:03 +0000] "GET /favicon.ico HTTP/1.1" 404 556 "http://127.0.0.1:5000/" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/107.0.0.0 Safari/537.36" "-"

172.17.0.1 - - [12/Nov/2022:06:30:39 +0000] "GET / HTTP/1.1" 200 612 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/107.0.0.0 Safari/537.36" "-"

2022/11/12 06:30:39 [error] 32#32: *3 open() "/usr/share/nginx/html/favicon.ico" failed (2: No such file or directory), client: 172.17.0.1, server: localhost, request: "GET /favicon.ico HTTP/1.1", host: "localhost:5000", referer: "http://localhost:5000/"

172.17.0.1 - - [12/Nov/2022:06:30:39 +0000] "GET /favicon.ico HTTP/1.1" 404 556 "http://localhost:5000/" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/107.0.0.0 Safari/537.36" "-"

OUTLINE

TIMELINE

0 0 0 Quokka

Ln 12, Col 52 Spaces: 4 UTF-8 CRLF Dockerfile Go Live 214 B Spell Prettier

Rain off and on 12:02 PM 12-11-2022

badhrikesavaraja/svelte-plasma-1 x Dockerize a Svelte App - Svelte S x +

hub.docker.com/r/badhrikesavaraja/svelte-plasma-bank-app

Wasm is a fast, light alternative to Linux containers — try it out today in the [Docker+Wasm Technical Preview](#)

dockerhub

Search Docker Hub

Explore Repositories Organizations Help

Upgrade

badhrikesavaraja

Explore badhrikesavaraja/svelte-plasma-bank-app

badhrikesavaraja/svelte-plasma-bank-app ☆

By [badhrikesavaraja](#) · Updated a few seconds ago

Manage Repository

↓ Pulls 0

Image

Overview Tags

No overview available

This repository doesn't have an overview

Docker Pull Command

```
docker pull badhrikesavaraja/...
```

Type here to search

Rain ^ ☁ 📶 🔊 ENG 02:37 PM 12-11-2022