

DEPLOYMENT OF APP IN IBM CLOUD

Containerize The App

Date	15 November, 2022
Team ID	PNT2022TMID31636
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 for a Plasma Donor Application.

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

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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
=> => transferring dockerfile: 32B
=> [internal] load .dockerignore
=> => transferring context: 58B
=> [internal] load metadata for docker.io/library/nginx:1.19-alpine
=> [internal] load metadata for docker.io/library/node:16
=> [build 1/7] FROM docker.io/library/node:16@sha256:496085d0cd8edf49c97ec86ac11bed85b6f965d9b29885887bb0edba26549b07
=> => resolve docker.io/library/node:16@sha256:496085d0cd8edf49c97ec86ac11bed85b6f965d9b29885887bb0edba26549b07
=> => sha256:496085d0cd8edf49c97ec86ac11bed85b6f965d9b29885887bb0edba26549b07 776B / 776B
=> => sha256:fd31ec14dcccda8f2472547f1a94efba23b8dabb764cd7b1d48ae0a0fea7c8 50.45MB / 50.45MB
=> => sha256:cbd1efa5831eba5a41fb209c6f56967289379199c6992b204f99b301f6f1205 2.21kB / 2.21kB
```

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11:54 AM 12-11-2022

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

EXPLORER

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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:f1ac0452e7a7ce5a9781502e1bca3360748aa17c776748eb301c26ca8f5b294a 6.3s
=> => extracting sha256:7a53749a183a965985e17a671ec23dd3531d7db1f33675510464db37804814f3 0.0s
=> => extracting sha256:cd5d5e2c2112b1d40abde4b75d6c8fcc68ad8550f63aba740430be7bd62e4 1.2s
=> => extracting sha256:5b97ac1cb7dedf622e127933f76533154651965d2992141df4a4ace9839c2034 0.1s
=> => extracting sha256:d05e77034f9fc3094d27aa7420eb460de7634b0b3ccfe659c0fc8a9e863cfb2f 0.0s
=> CACHED [stage-1 1/2] FROM docker.io/library/nginx:1.19-alpine@sha256:07ab71a2c8e4ecb19a5a5abcfb3a4f175946c001c8af288b1aa766d67b0d85d2 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
```

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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

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Dockerfile X .dockerignore

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

cmd + + - - + - x

6.3s

0.0s

1.2s

0.1s

0.0s

0.0s

0.1s

0.0s

0.0s

3.2s

0.1s

0.1s

9.1s

0.1s

2.8s

0.1s

0.2s

0.1s

0.0s

0.0s

OUTLINE

TIMELINE

0 0 0 Quokka

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Type here to search

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Docker Desktop

Containers

Images

Volumes

Dev Environments

Extensions

Add Extensions

Containers

Only show running containers

Search

	NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
	svelte-docker	svelte-docker:latest	Running	5000:80	3 minutes ago	

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" "-"

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badhrikesavaraja/svelte-plasma-
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


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Upgrade

 badhrikesavaraja

Explore badhrikesavaraja/svelte-plasma-bank-app



badhrikesavaraja/svelte-plasma-bank-app

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


Image

Manage Repository

Pulls 0

Overview

Tags



No overview available

This repository doesn't have an overview

Docker Pull Command

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

Type here to search



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