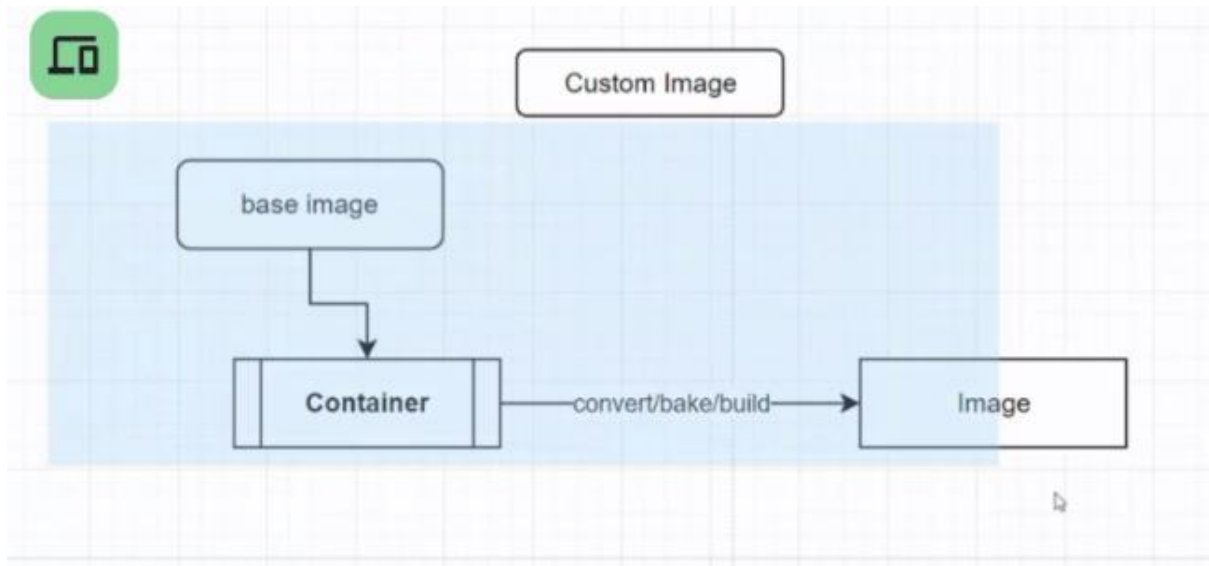
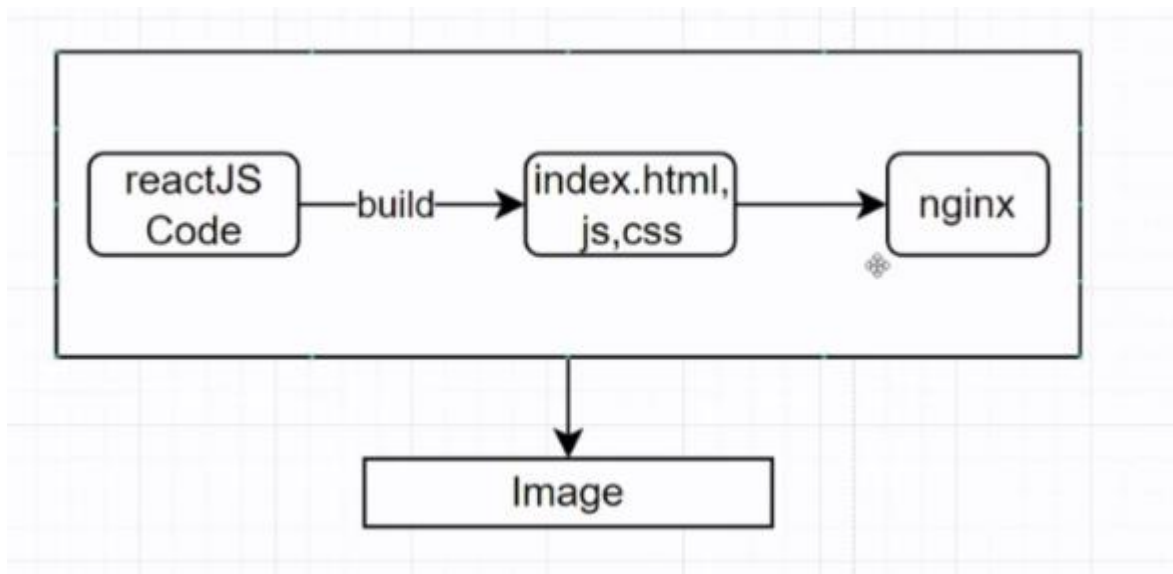


18 Sept 2024

1)



2)



3)

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Anshuman2121 Change name to DevOpsInsiders (#1) 22f48ea · 10 months ago 15 Commits

build	Change name to DevOpsInsiders (#1)	10 months ago
public	Change name to DevOpsInsiders (#1)	10 months ago
src	updated code	last year

4) git clone <https://github.com/devopsinsiders/ReactTodoUIMonolith.git>

5) ls

```
azureuser@vmbhai:~$ ls
ReactTodoUIMonolith snap
azureuser@vmbhai:~$
```

6) cd ReactTodoUIMonolith/

```
azureuser@vmbhai:~/ReactTodoUIMonolith$ ls
Dockerfile README.md build package-lock.json package.json public src
```

7) touch Dockerfile

ls

```
ls: Command not found
azureuser@vmbhai:~/ReactTodoUIMonolith$ ls
Dockerfile README.md build package-lock.json package.json public src
azureuser@vmbhai:~/ReactTodoUIMonolith$
```

8) SEARCH Docker reference – RUN

## RUN

The **RUN** instruction will execute any command added layer is used in the next step in the Docker

```
# Shell form:
RUN [OPTIONS] <command> ...
# Exec form:
RUN [OPTIONS] [ "<command>", ... ]
```

For more information about the differences betw

The shell form is most commonly used, and lets using newline [escapes](#), or with [here docs](#):

```
RUN <<EOF
apt-get update
apt-get install -y curl
EOF
```

9) Put in docker file

```
azureuser@vmbhai: ~/ReactTodoUIMonolith
```

```
GNU nano 7.2
```

```
FROM ubuntu
RUN <<EOF
apt-get update
apt-get install -y curl
EOF
```

10) Now edit dockerfile as below as per readme file

## Readme for Todo App

### Installation

#### 1. Install Node.js and NPM on Ubuntu:

- Make sure you have Node.js 16.x and NPM installed on your machine. If not, you can install them using the following commands:

```
curl -s https://deb.nodesource.com/setup_16.x | sudo bash
sudo apt install nodejs -y
```

```
azureuser@vmbhai: ~/ReactTodoUIMonolith
```

```
GNU nano 7.2
```

```
FROM ubuntu
RUN <<EOF
curl -s https://deb.nodesource.com/setup_16.x | sudo bash
sudo apt install nodejs -y
EOF
```

11) Now instead of above let directly take image of node

[Explore](#) / [Official Images](#) / node



**node**

 Docker Official Image •  1B+ •  10K+

Node.js is a JavaScript-based platform for server-side and networking applications.

LANGUAGES & FRAMEWORKS

12) Taking version 16. as per read me file

TAG

[16.20.2](#)

Last pushed a year ago by [dojanky](#)

Digest	OS/ARCH	Vulnerabilities				
<a href="#">c94b82f9827c</a>	linux/amd64	0	2	2	3	2
<a href="#">dc753c7d7dda</a>	linux/arm/v7	0	2	2	3	2
<a href="#">9096e122b56e</a>	linux/arm64/v8	0	2	2	3	2

+++++

## AGENDA – Pics

1) Go to pexels.com and download 2 images

2) **nano Dockerfile**



3) WORKDIR – Workdir creates photos folder also as well as also goes inside photos folder

4) mkdir images – create folder and put images into it using curl

curl -o apple-touch-icon.png <https://www.python.org/static/apple-touch-icon-144x144-precomposed.png>

curl -o GitHub-Mark.png [https://github.githubassets.com/images/modules/logos\\_page/GitHub-Mark.png](https://github.githubassets.com/images/modules/logos_page/GitHub-Mark.png)

**ls**



5) Write docker file as below

```
azureuser@vmbhai: ~/ReactTodoUIMonolith
GNU nano 7.2
FROM nginx
WORKDIR /photos
COPY /images /photos
```

6) **docker buildx build -t buildpics2 .** – run to create/build **buildpics2** named image

**docker images**

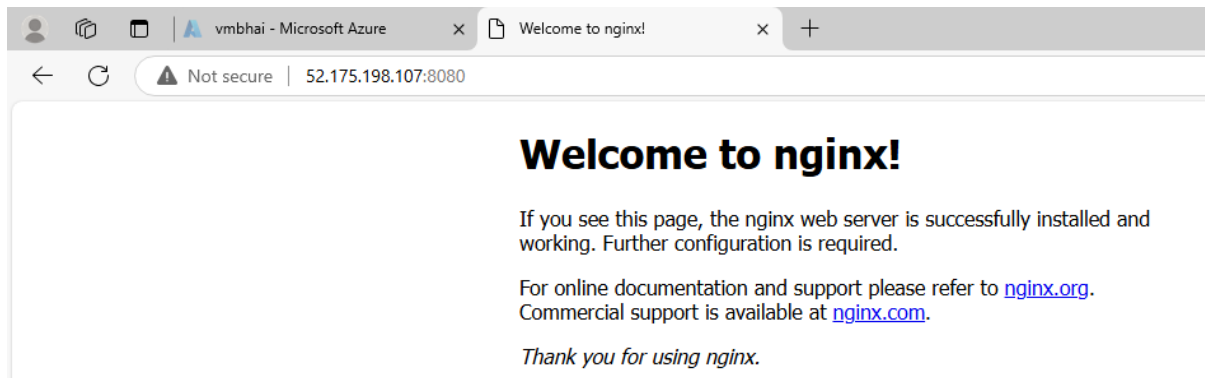
```
root@vmbhai: /home/azureuser/ReactTodoUIMonolith
root@vmbhai:/home/azureuser/ReactTodoUIMonolith# docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
buildpics2    latest    f87f64c7ec33   18 seconds ago 192MB
buildpics1    latest    f265e0e65d24   46 minutes ago 192MB
root@vmbhai:/home/azureuser/ReactTodoUIMonolith#
```

7) **docker run -p 8081:80 -d buildpics2** – run to create container using image **buildpics2**

**docker ps -a**

```
root@vmbhai:/home/azureuser/ReactTodoUIMonolith# docker run -p 8081:80 -d buildpics2
fb561c36d244075133785c20d657e0cc262b00f1fd2e0368b7f04d2753657f58
root@vmbhai:/home/azureuser/ReactTodoUIMonolith# docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
fb561c36d244   buildpics2     "/docker-entrypoint...." 6 seconds ago  Up 5 seconds  0.0.0.0:8081->80/tcp, :::8081->80/tcp  dreamy_gagarin
6761c162953f   buildpics1     "/docker-entrypoint...." 43 minutes ago Up 43 minutes  0.0.0.0:8080->80/tcp, :::8080->80/tcp  awesome_wiles
root@vmbhai:/home/azureuser/ReactTodoUIMonolith#
```

8) Run browser



9) **docker exec -i -t a6d54cc637d2 bash** – Gives bash terminal to enter into container

**ls**

```
root@vmbhai:/home/azureuser/ReactTodoUIMonolith# docker exec -i -t fb561c36d244 bash
root@fb561c36d244:/photos# ls
GitHub-Mark.png  apple-touch-icon.png
root@fb561c36d244:/photos#
```

10) **docker buildx build -t buildpics3 .** – run to create/build **buildpics3** named image

**docker images**

11) **docker run -p 8082:80 -d buildpics3** – run to create container using image **buildpics3**

**docker ps -a**