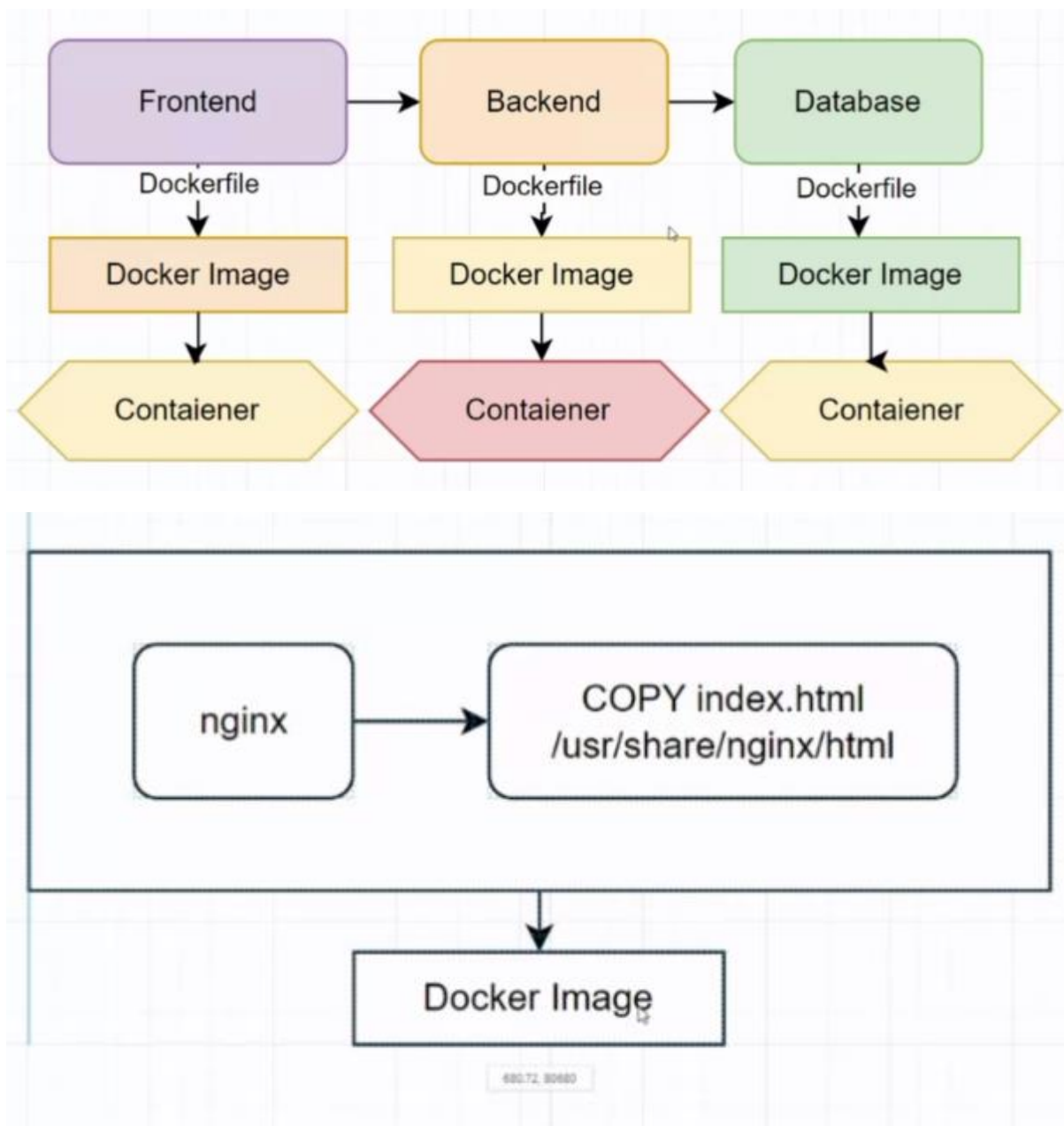
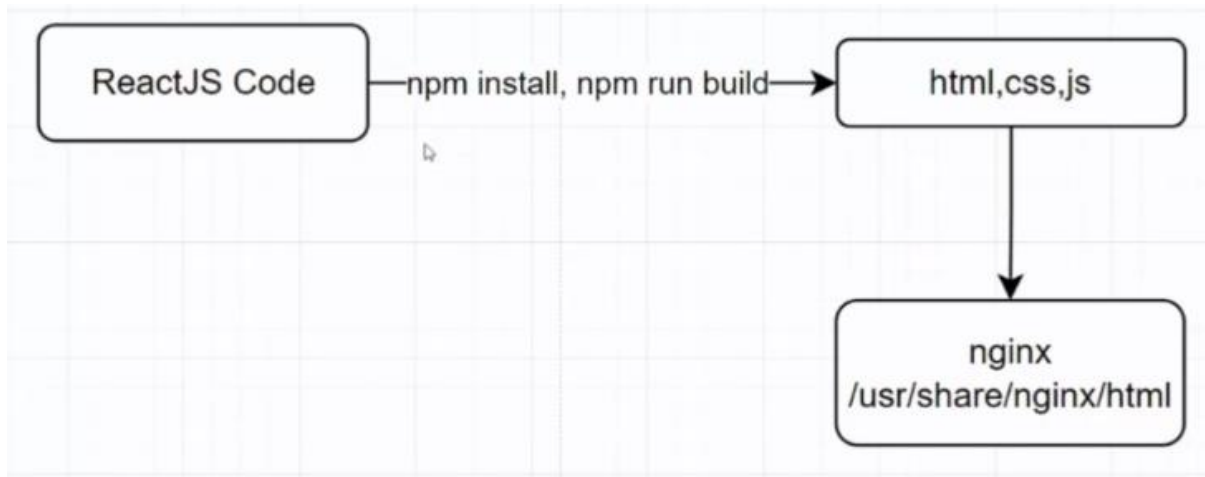


21 september

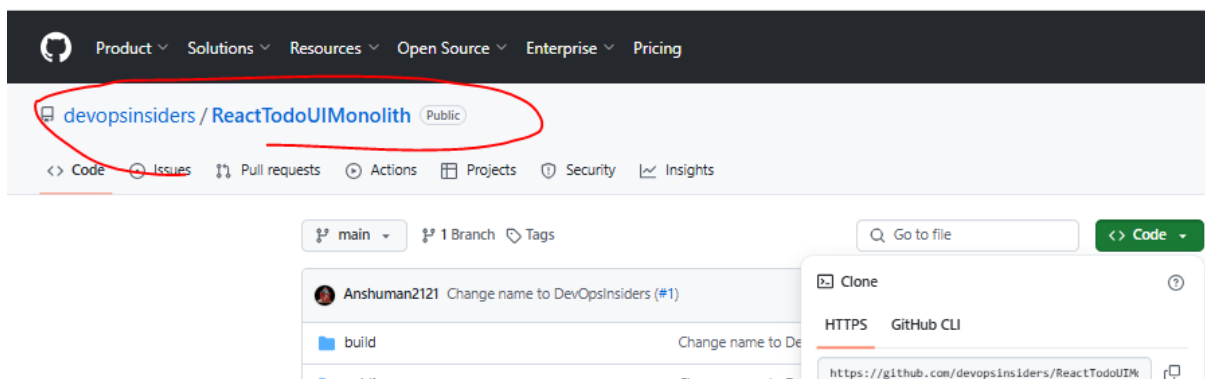


3) Since react JS code cannot be put on nginx directly so we have to firstly convert it into html, css, javascript



4) Create vm, install docker,

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



```

azureuser@vmgg:~$ git clone https://github.com/devopsinsiders/ReactTodoUIMonolith.git
Cloning into 'ReactTodoUIMonolith'...
remote: Enumerating objects: 107, done.
remote: Counting objects: 100% (14/14), done.
remote: Compressing objects: 100% (6/6), done.
remote: Total 107 (delta 13), reused 8 (delta 8), pack-reused 93 (from 1)
Receiving objects: 100% (107/107), 1.25 MiB | 12.04 MiB/s, done.
Resolving deltas: 100% (49/49), done.
  
```

6) **ls**

cd ReactTodoUIMonolith/

ls

```

azureuser@vmgg:~$ ls
ReactTodoUIMonolith  snap
azureuser@vmgg:~$ cd ReactTodoUIMonolith/
azureuser@vmgg:~/ReactTodoUIMonolith$ ls
README.md  build  package-lock.json  package.json  public  src
  
```

7) **rm -r build** – remove build folder

ls

```

azureuser@vmgg:~/ReactTodoUIMonolith$ rm -r build
azureuser@vmgg:~/ReactTodoUIMonolith$ ls
README.md package-lock.json package.json public src
azureuser@vmgg:~/ReactTodoUIMonolith$

```

8) As per read me file run

sudo apt update

sudo apt install npm

npm install

ls

```

root@vmgg:/home/azureuser/ReactTodoUIMonolith# npm install
npm WARN stable@0.1.8: Modern JS already guarantees Array#sort
n-US/docs/Web/JavaScript/Reference/Global_Objects/Array/sort#browser_comp
npm WARN sourcemap-codec@1.4.8: Please use @jridgewell/sourcemap-codec
npm WARN rollup-plugin-terser@7.0.2: This package has been deprecated
npm WARN @babel/plugin-proposal-private-methods@7.18.6: This p
in-transform-private-methods instead.
npm WARN @babel/plugin-proposal-numeric-separator@7.18.6: This
ugin-transform-numeric-separator instead.
npm WARN @babel/plugin-proposal-nullish-coalescing-operator@7.
@babel/plugin-transform-nullish-coalescing-operator instead.
npm WARN @babel/plugin-proposal-class-properties@7.18.6: This
gin-transform-class-properties instead.
npm WARN @babel/plugin-proposal-optional-chaining@7.21.0: This
ugin-transform-optional-chaining instead.
npm WARN w3c-hr-time@1.0.2: Use your platform's native perform
npm WARN workbox-cacheable-response@6.6.0: workbox-background
npm WARN svgo@1.3.2: This SVGO version is no longer supported.

added 1573 packages, and audited 1574 packages in 1m

256 packages are looking for funding
  run `npm fund` for details

25 vulnerabilities (1 low, 9 moderate, 15 high)

To address issues that do not require attention, run:
  npm audit fix

To address all issues (including breaking changes), run:
  npm audit fix --force

Run `npm audit` for details.
root@vmgg:/home/azureuser/ReactTodoUIMonolith# ls
README.md node_modules package-lock.json package.json public src
root@vmgg:/home/azureuser/ReactTodoUIMonolith#

```

9) **touch Dockerfile**

ls

```

root@vmgg:/home/azureuser/ReactTodoUIMonolith# touch Dockerfile
root@vmgg:/home/azureuser/ReactTodoUIMonolith# ls
Dockerfile README.md node_modules package-lock.json package.json
root@vmgg:/home/azureuser/ReactTodoUIMonolith# 2

```

10) npm run build

ls

```
root@vmgg:/home/azureuser/ReactTodoUIMonolith# npm run build

> todo-app@0.1.0 build
> react-scripts build

Creating an optimized production build...
Browserslist: caniuse-lite is outdated. Please run:
  npx update-browserslist-db@latest
  Why you should do it regularly: https://github.com/browserslist/update-db#readme
One of your dependencies, babel-preset-react-app, is importing the
"@babel/plugin-proposal-private-property-in-object" package without
declaring it in its dependencies. This is currently working because
"@babel/plugin-proposal-private-property-in-object" is already in your
node_modules folder for unrelated reasons, but it may break at any time.

babel-preset-react-app is part of the create-react-app project, which
is not maintained anymore. It is thus unlikely that this bug will
ever be fixed. Add "@babel/plugin-proposal-private-property-in-object" to
your devDependencies to work around this error. This will make this message
go away.

Browserslist: caniuse-lite is outdated. Please run:
  npx update-browserslist-db@latest
  Why you should do it regularly: https://github.com/browserslist/update-db#readme
Compiled with warnings.

[eslint]
src/ToDoApp.js
  Line 3:52: 'Grid' is defined but never used  no-unused-vars

Search for the keywords to learn more about each warning.
To ignore, add // eslint-disable-next-line to the line before.

File sizes after gzip:

  115.07 kB   build/static/js/main.5daae207.js
  1.78 kB    build/static/js/787.2843ca88.chunk.js
  264 B      build/static/css/main.e6c13ad2.css

The project was built assuming it is hosted at /.
You can control this with the homepage field in your package.json.

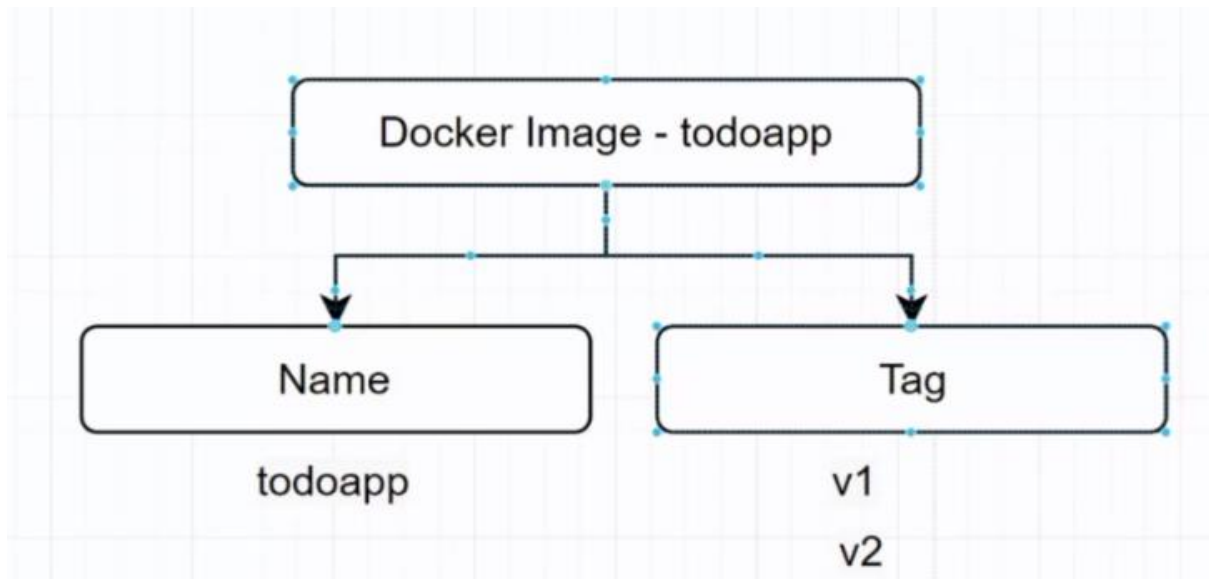
The build folder is ready to be deployed.
You may serve it with a static server:

  npm install -g serve
```

11) nano Dockerfile

```
➤ root@vmgg:/home/azureuser/ReactTodoUIMonolith
GNU nano 7.2
FROM nginx
COPY build/ /use/share/nginx/html
```

12) Now we can make image in 2 ways



13) **docker buildx build -t todoui3 .** – run to create/build **todoui3** named image

OR docker buildx build -t todoui3:v1 . – mention tag or version as v1 (If we do not mention any tag like v1 then it will automatically take tag as **latest**)

docker images

```

root@vmgg:/home/azureuser/ReactTodoUIMonolith# docker buildx build -t todoui .
[+] Building 9.0s (7/7) FINISHED
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 83B
=> [internal] load metadata for docker.io/library/nginx:latest
=> [internal] load build context
=> => transferring context: 662.40kB
=> [1/2] FROM docker.io/library/nginx@sha256:28402db69fec7c17e179ea87882667f1e8
=> => resolve docker.io/library/nginx@sha256:28402db69fec7c17e179ea87882667f1e8
=> => sha256:28402db69fec7c17e179ea87882667f1e854391138f77ffa0c3eb388efc3ffb 3
=> => sha256:367678a80c0be120f67f3adfcc2f408bd2c1319ed98c1975ac88e750d0efe26 2
=> => sha256:a480a496ba95a197d587aa1d9e0f545ca7dbd40495a4715342228db62b67c4ba 2
=> => sha256:3b25b682ea82b2db3cc4fd48db818be788ee3f902ac7378090cf2624ec2442df 8
=> => sha256:f3ace1b8ce45351f711f841b07ecc15383939db71555b947a9ffef6fb168ab18 4
=> => sha256:11d6fdd0e8a78c038b5c013368f76279d21e5ee239f18a1e20a3593414fa1095 6
=> => sha256:f1091da6fd5cd13c1004024fdc5661a0456be67716d81671d8d2e7f81c0dbc2e 9
=> => sha256:40eea07b53d8dc814d92f772a7b2be5c1c3914b05e3edcb5f2489e805885a0a3 4
=> => extracting sha256:a480a496ba95a197d587aa1d9e0f545ca7dbd40495a4715342228db
=> => sha256:70850b3ec6b2d92e9ccdf63bbd5d1aa0dec25087cb2507165f7538ffc7029df 3
=> => sha256:6476794e50f4265ce2cab9c2ef2444dae937d28280a742899c8770fbca18bfed 3
=> => extracting sha256:f3ace1b8ce45351f711f841b07ecc15383939db71555b947a9ffef6
=> => extracting sha256:11d6fdd0e8a78c038b5c013368f76279d21e5ee239f18a1e20a3593
=> => extracting sha256:f1091da6fd5cd13c1004024fdc5661a0456be67716d81671d8d2e7f
=> => extracting sha256:40eea07b53d8dc814d92f772a7b2be5c1c3914b05e3edcb5f2489e8
=> => extracting sha256:6476794e50f4265ce2cab9c2ef2444dae937d28280a742899c8770f
=> => extracting sha256:70850b3ec6b2d92e9ccdf63bbd5d1aa0dec25087cb2507165f7538
=> [2/2] COPY build/ /use/share/nginx/html
=> exporting to image
=> => exporting layers
=> => writing image sha256:3343df14b63180b92562d4c5ba9fbf4fa7104b133e6fb1ca8548
=> => naming to docker.io/library/todoui
root@vmgg:/home/azureuser/ReactTodoUIMonolith# docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
todoui        latest   3343df14b631   9 seconds ago  192MB
root@vmgg:/home/azureuser/ReactTodoUIMonolith#

```

14) **docker run -p 8083:80 -d todoui3:latest** – run to create container using image **todoui3**

docker ps -a

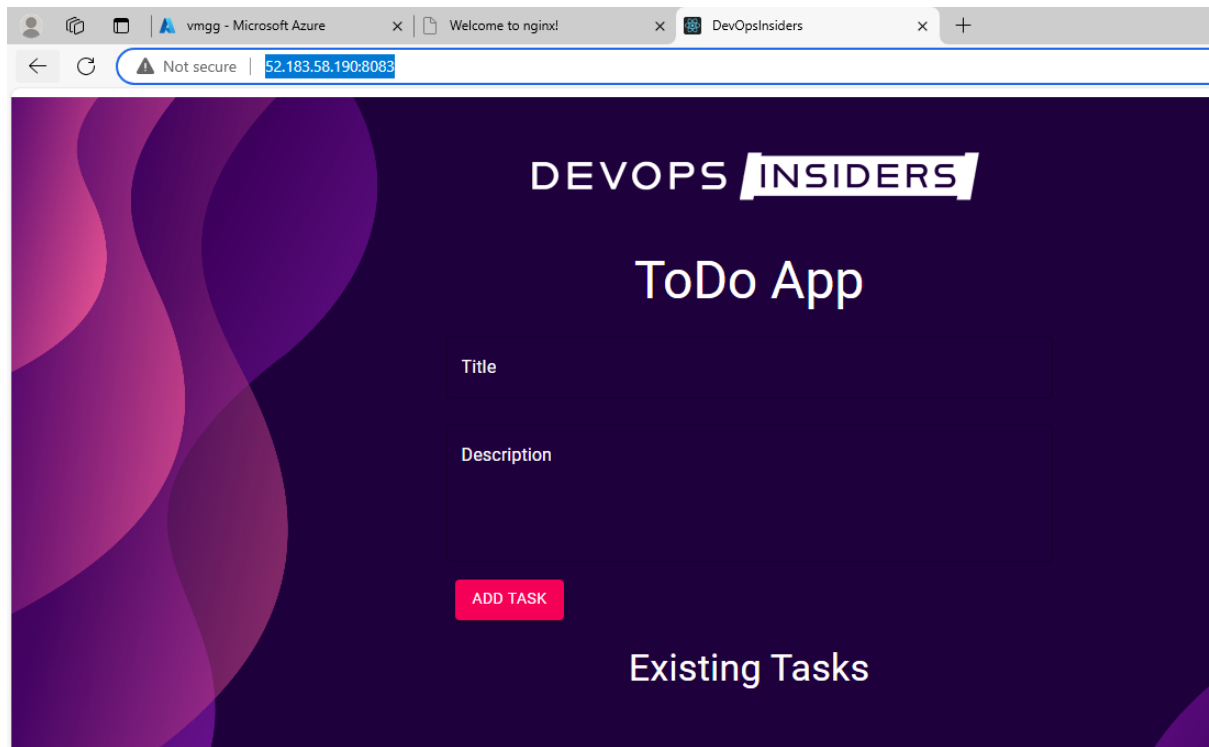
```

root@vmgg:/home/azureuser/ReactTodoUIMonolith# docker run -p 8080:80 -d todoui:latest
3ae596c6b5a879485c602e129376f77dca6126b8a097390492848c749fc652c9
root@vmgg:/home/azureuser/ReactTodoUIMonolith#

root@vmgg:/home/azureuser/ReactTodoUIMonolith# docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS                               NAMES
3ae596c6b5a8   todoui:latest   "/docker-entrypoint..." 23 seconds ago Up 22 seconds   0.0.0.0:8080->80/tcp, :::8080->80/tcp   busy_hoover
root@vmgg:/home/azureuser/ReactTodoUIMonolith#

```

15) 52.183.58.190:8083 –



16) So if we go inside container then in html folder we will get components of build folder of todo app

docker exec -i -t 95c5977cdff6 bash

ls

cd /usr/share/nginx/html

ls

```
root@vmgg:/home/azureuser/ReactTodoUIMonolith# docker exec -i -t 95c5977cdff6 bash
root@95c5977cdff6:/# ls
bin boot dev docker-entrypoint.d docker-entrypoint.sh etc home lib lib64 media mnt opt proc root run sbin srv sys tmp usr var
root@95c5977cdff6:/# cd /usr/share/nginx/html
root@95c5977cdff6:/usr/share/nginx/html# ls
50x.html asset-manifest.json background.jpg devopsinsiderslogo.png favicon.ico index.html logo192.png logo512.png manifest.json robots.txt static
root@95c5977cdff6:/usr/share/nginx/html#
```

17) Now delete build and node folder

rm -r build

+++++

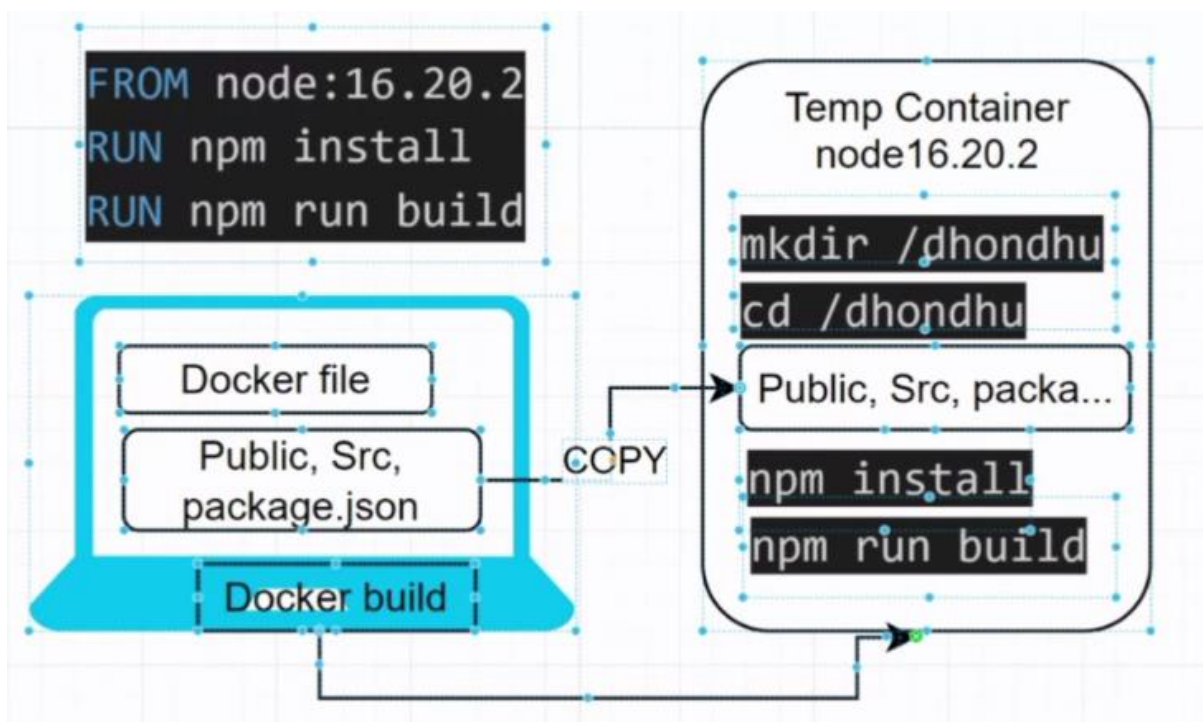
18) Now npm install and npm build can be put in docker file only instead of putting manually in outside commands.

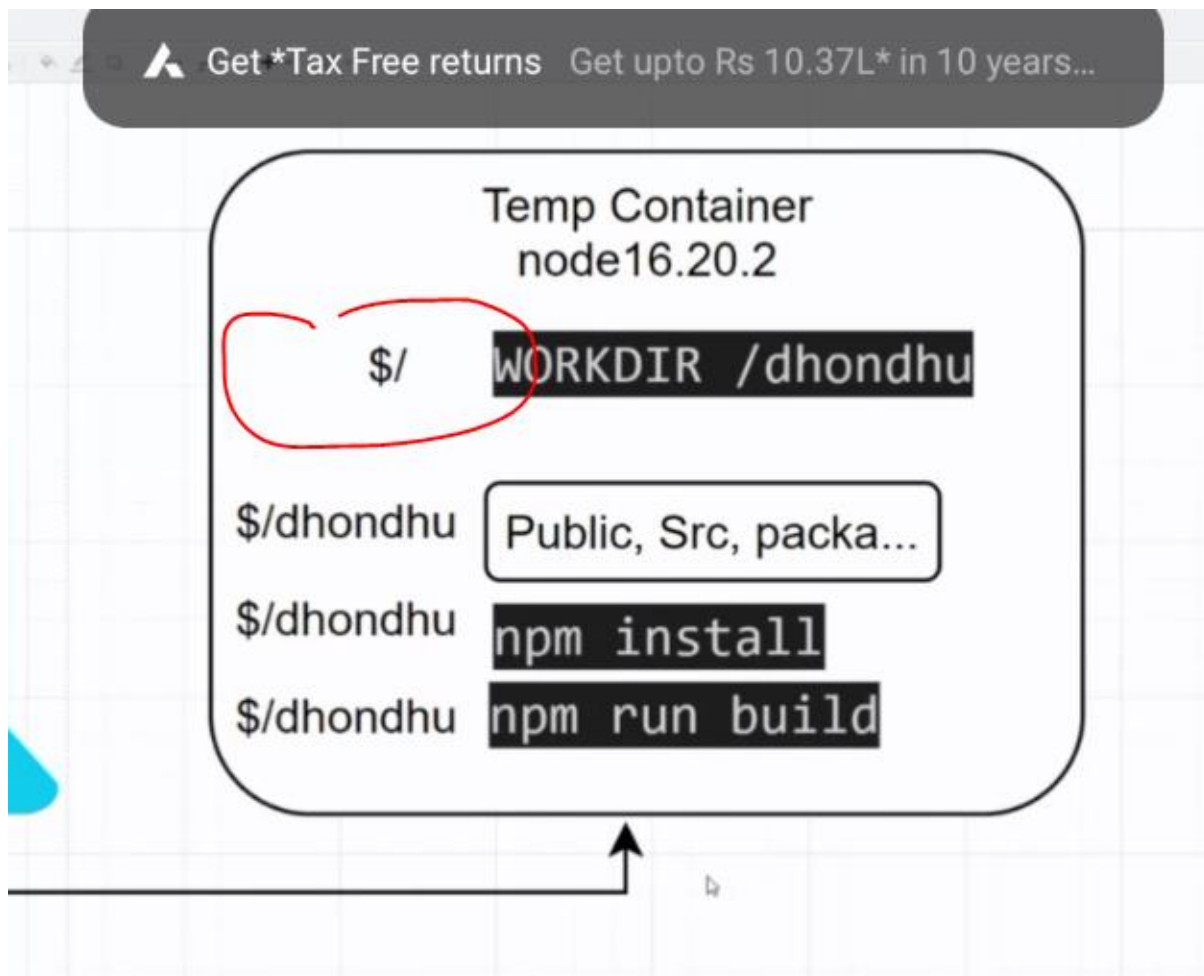
19) nano Dockerfile


```
azureuser@vmgg: ~/ReactTodoUIMonolith
```

```
GNU nano 7.2
```

```
FROM node:16.20.2
WORKDIR /dhondhu/
COPY . /dhondhu/
RUN npm install
RUN npm run build
```





20) WORKDIR = MKDIR+CD

21) Now build folder created has to be put into nginx server

```
root@vmgg: /home/azureuser/ReactTodoUIMonolith
GNU nano 7.2
FROM node:16.20.2
WORKDIR /dhondhu
COPY . /dhondhu
RUN npm install
RUN npm run build
RUN apt update
RUN apt install -y nginx
RUN cp -r /dhondhu/build /var/www/html/
RUN service nginx start
```

22) We were unable to start nginx but were unable to do and class was closed

Record_2024-09-21-08-54-36.mp4 - MPCSTAR 7.0

File Edit Selection View Go ... Class3

EXPLORER CLASS3

- React
- src
- gitignore
- Dockerfile
- package-lock.json
- package.json
- README.md

Dockerfile U

```
ReactTodoUIMonolith > Dockerfile > ...
3 COPY . .
4 RUN npm install
5 RUN npm run build
6
7 RUN apt update
8 RUN apt install -y nginx
9 RUN cp -r /dhondhu/build /var/www/html/
10 CMD service nginx start
```

PORTS AZURE TERMINAL DEBUG CONSOLE PROBLEMS OUTPUT

todo-ui	latest	f3d2146c0c9d	2 hours ago	190MB
photobackup	v2	dca63c76b9b1	2 days ago	190MB
photobackup	v1	ef76dfa0e222	2 days ago	190MB
nginx	latest	39286ab0a5e1	5 weeks ago	188MB
node	16.20.2	1ddc7e4855fd	12 months ago	909MB
gophish/gophish	latest	35133b15ff61	22 months ago	230MB

powershell - ReactTodoUIMonolith

Aman is presenting

Ln 10, Col 24 (19 selected) Spaces: 4 UTF-8 CRLF Dockerfile

Paused

Orig AR 720x1600 01:55:32 / 0

Ashish