REACTJS

sudo npm install pm2 -g

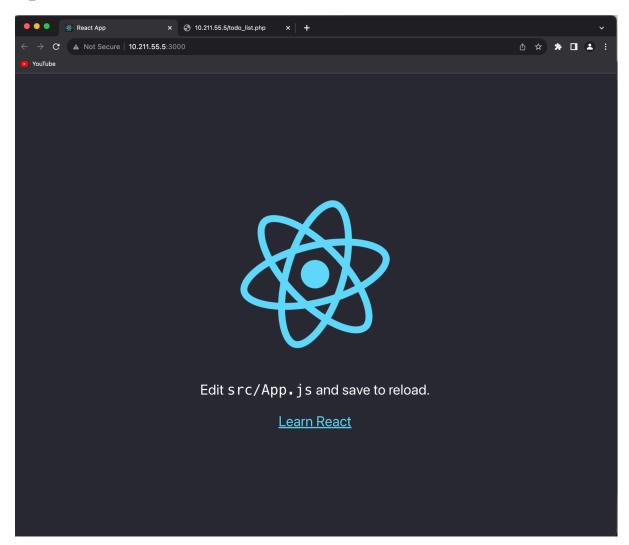
devuser@server:/etc/nginx/sites-available\$ sudo npm install pm2 -g

cd /var/www sudo mkdir Lab3

devuser@server:~\$ cd /var/www
devuser@server:/var/www\$ sudo mkdir Lab3

sudo chown -R \$USER:\$USER Lab3
cd Lab3
npx create-react-app my-react-app
cd my-react-app

npm start



sudo nano package.json

devuser@server:/var/www/Lab3/my-react-app\$ sudo nano package.json

edit port

```
A Share session
  GNU nano 6.2
                                                              package.json
"name": "my-react-app",
"version": "0.1.0",

"private": true,
  "dependencies": {
     "@testing-library/jest-dom": "^5.17.0",
     "@testing-library/react": "^13.4.0",
     "@testing-library/user-event": "^13.5.0",
     "react": "^18.2.0",
"react-dom": "^18.2.0",
     "react-scripts": "5.0.1",
     "web-vitals": "^2.1.4"
  "scripts": {
    "build": "react-scripts build",
"test": "react-scripts test",
"eject": "react-scripts eject"
  "eslintConfig": {
     "extends": [
       "react-app",
"react-app/jest"
  "browserslist": {
     "production": [
       ">0.2%",
"not dead",
"not op_mini all"
     "development": [
       "last 1 chrome version",
"last 1 firefox version",
"last 1 safari version"
                                                       [ Read 38 lines ]
                      ^O Write Out
   Help
                                            ^W Where Is
                                                                      Cut
                                                                                            Execute
                                                                                                              ^C Location
                                                                      Paste
                                                                                                                  Go To Line
                          Read File
                                            ^\ Replace
   Exit
                                                                                            Justify
```

sudo ufw allow 3001

```
devuser@server:/var/www/Lab3/my-react-app$ sudo ufw allow 3001
Rule added
Rule added (v6)
devuser@server:/var/www/Lab3/my-react-app$
```

cd /etc/nginx/sites-available sudo cp default my-react-app

```
devuser@server:~$ cd /etc/nginx/sites-available
devuser@server:/etc/nginx/sites-available$ sudo cp default my-react-app
```

sudo nano my-react-app

```
devuser@server:/etc/nginx/sites-available$ sudo nano my-react-app
```

```
server {
    listen 80;
    listen [::]:80;
    server_name my-react-app.se-rmutl.net;
    location / {
        proxy_pass http://127.0.0.1:3001; # !!! -
change to your app port
        proxy_http_version 1.1;
        proxy_set_header Upgrade $http_upgrade;
        proxy_set_header Connection 'upgrade';
        proxy_set_header Host $host;
        proxy_cache_bypass $http_upgrade;
    }
```

```
}
```

```
server {
         listen 80;
         listen [::]:80;
         server_name my-react-app.se-rmutl.net;
        location / {
                proxy_pass http://127.0.0.1:3001; # !!! - change to your app port
                proxy_http_version 1.1;
                proxy_set_header Upgrade $http_upgrade;
                proxy_set_header Connection 'upgrade';
                proxy_set_header Host $host;
                proxy_cache_bypass $http_upgrade;
        }
# Virtual Host configuration for example.com
# You can move that to a different file under sites-available/ and symlink that
# to sites-enabled/ to enable it.
#server {
       listen 80;
        listen [::]:80;
        server_name example.com;
        root /var/www/example.com;
        index index.html;
        location / {
                try_files $uri $uri/ =404;
#}
```

systemctl restart nginx.service

```
devuser@server:/etc/nginx/sites-available$ systemctl restart nginx.service
==== AUTHENTICATING FOR org.freedesktop.systemd1.manage-units ===
Authentication is required to restart 'nginx.service'.
Multiple identities can be used for authentication:
1. teerapong (devuser)
2. teerapong,1,, (non)
Choose identity to authenticate as (1-2): 2
Password:
==== AUTHENTICATION COMPLETE ===
devuser@server:/etc/nginx/sites-available$
```

10.211.55.5 my-react-app.se-rmutl.net (edit in terminal -> sudo nano /etc/host)

```
Won — pico < sudo — 80×24

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File: /etc/hosts

Modified

##

# Host Database

#

# localhost is used to configure the loopback interface

# when the system is booting. Do not change this entry.

##

127.0.0.1 localhost engse203.lab1

255.255.255.255 broadcasthost

::1 localhost

10.211.55.5 myapp.se-rmutl.net

10.211.55.5 expressjs-example.se-rmutl.net

10.211.55.5 my-react-app.se-rmutl.net
```

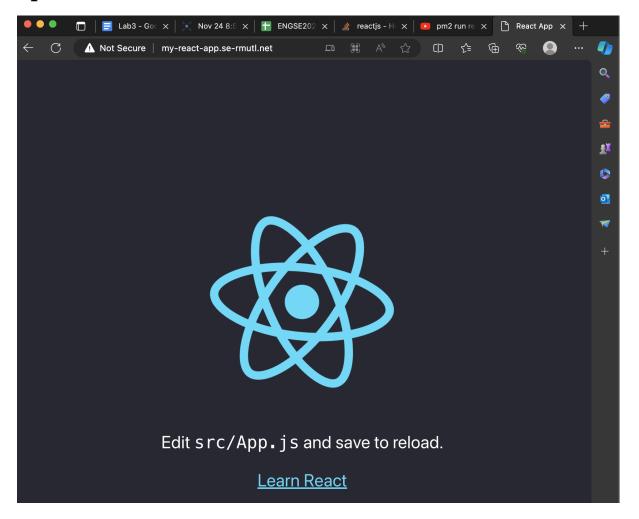
ping my-react-app.se-rmutl.net

```
Non@admins-iMac-3 ~ % ping my-react-app.se-rmutl.net
PING my-react-app.se-rmutl.net (10.211.55.5): 56 data bytes
64 bytes from 10.211.55.5: icmp_seq=0 ttl=64 time=0.412 ms
64 bytes from 10.211.55.5: icmp_seq=1 ttl=64 time=0.494 ms
64 bytes from 10.211.55.5: icmp_seq=2 ttl=64 time=0.500 ms
^C
--- my-react-app.se-rmutl.net ping statistics ---
3 packets transmitted, 3 packets received, 0.0% packet loss
round-trip min/avg/max/stddev = 0.412/0.469/0.500/0.040 ms
Non@admins-iMac-3 ~ %
```

cd /var/www/Lab3/my-react-app

devuser@server:/var/www/myapp\$ cd /var/www/Lab3/my-react-app

npm start (run domain)



nextjs

cd /var/www/Lab3

npx create-next-app@latest ubuntu-next-app

```
devuser@server:/var/www/Lab3/my-react-app$ cd /var/www/Lab3
devuser@server:/var/www/Lab3$ npx create-next-app@latest ubuntu-next-app
Need to install the following packages:
create-next-app@14.0.4
Ok to proceed? (y) y
✓ Would you like to use TypeScript? ... No / Yes
✓ Would you like to use ESLint? ... No / Yes
✓ Would you like to use Tailwind CSS? ... No / Yes
✓ Would you like to use `src/` directory? ... No / Yes
✓ Would you like to use App Router? (recommended) ... No / Yes
✓ Would you like to customize the default import alias (@/*)? ... No / Yes
Creating a new Next.js app in /var/www/Lab3/ubuntu-next-app.
Using npm.
Initializing project with template: app-tw
Installing dependencies:
- react
- react-dom
- next
Installing devDependencies:
- typescript
- @types/node
- @types/react
- @types/react-dom
- autoprefixer
- postcss
- tailwindcss
- eslint-config-next
added 333 packages, and audited 334 packages in 16s
117 packages are looking for funding
  run `npm fund` for details
found • vulnerabilities
Initialized a git repository.
Success! Created ubuntu-next-app at /var/www/Lab3/ubuntu-next-app
```

cd /var/www/Lab3 npx create-next-app@latest ubuntu-next-app cd ubuntu-next-app

npm run build

```
devuser@server:/var/www/Lab3/my-react-app$ cd /var/www/Lab3
devuser@server:/var/www/Lab3$ npx create-next-app@latest ubuntu-next-app
Need to install the following packages:
create-next-app@14.0.4
Ok to proceed? (y) y
✓ Would you like to use TypeScript? ... No / Yes
✓ Would you like to use ESLint? ... No / Yes
✓ Would you like to use Tailwind CSS? ... No / Yes
✓ Would you like to use `src/` directory? ... No / Yes
✓ Would you like to use App Router? (recommended) ... No / Yes
✓ Would you like to customize the default import alias (@/*)? ... No / Yes
Creating a new Next.js app in /var/www/Lab3/ubuntu-next-app.
Using npm.
Initializing project with template: app-tw
Installing dependencies:
- react-dom
- next
Installing devDependencies:
typescript
- @types/node
- @types/react
- @types/react-dom
autoprefixer
postcss
- tailwindcss
- eslint
- eslint-config-next
added 333 packages, and audited 334 packages in 16s
117 packages are looking for funding
  run `npm fund` for details
found • vulnerabilities
Initialized a git repository.
Success! Created ubuntu-next-app at /var/www/Lab3/ubuntu-next-app
devuser@server:/var/www/Lab3$ cd ubuntu-next-app
devuser@server:/var/www/Lab3/ubuntu-next-app$ npm run build
```

```
> ubuntu-next-app@0.1.0 build
> next build

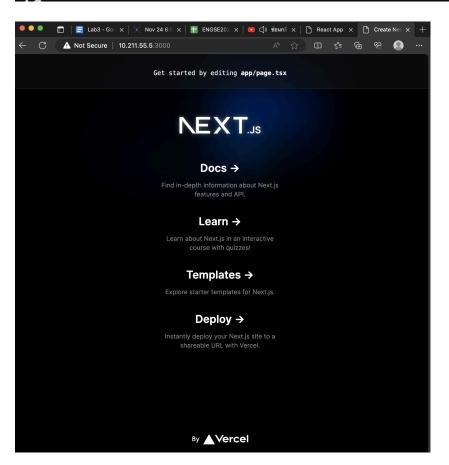
Attention: Next.js now collects completely anonymous telemetry regarding usage.
This information is used to shape Next.js' roadmap and prioritize features.
You can learn more, including how to opt-out if you'd not like to participate in this anonymous program, by visiting the following URL:
https://nextjs.org/telemetry

A Next.js 14.0.4

Creating an optimized production build
Compiled successfully
Linting and checking validity of types
Collecting page data
Generating static pages (5/5)
Collecting paid traces
Finalizing page optimization

Route (app)
Size First Load JS
5.16 kB 87 kB
C-hunks/938-5e061ba0d46125b1.js 26.7 kB
- chunks/938-5e061ba0d46125b1.js 26.7 kB
- chunks/938-5e061ba0d46125b1.js 33.3 kB
- chunks/938-5e061ba0d4625b1.js 53.3 kB
- chunks/938-5e061ba0d4625b1.js 1.65 kB
```

npm start



sudo nano package.json

```
"scripts": {
      "dev": "next dev -p 8080",
      "start": "next start -p 8080",
},
   UNU HAHU U.Z
   "name": "ubuntu-next-app",
   "version": "0.1.0",
   "private": true,
   "scripts": {
     "dev": "next dev -p 3002",
     "build": "next build",
     "start": "next start -p 3002",
     "lint": "next lint"
   "dependencies": {
     "react": "^18",
     "react-dom": "^18",
     "next": "14.0.4"
   "devDependencies": {
     "typescript": "^5",
     "@types/node": "^20",
     "@types/react": "^18"
     "@types/react-dom": "^18",
     "autoprefixer": "^10.0.1",
     "postcss": "^8",
     "tailwindcss": "^3.3.0",
     "eslint": "^8",
     "eslint-config-next": "14.0.4"
```

sudo ufw allow 3002

```
devuser@server:/var/www/Lab3/ubuntu-next-app$ sudo ufw allow 3002
Rule added
Rule added (v6)
cd /etc/nginx/sites-available
sudo cp default ubuntu-next-app
sudo nano ubuntu-next-app
devuser@server:~$ cd /etc/nginx/sites-available
devuser@server:/etc/nginx/sites-available$ sudo cp default ubuntu-next-app
devuser@server:/etc/nginx/sites-available$ sudo nano ubuntu-next-app
server {
     listen 80;
     listen [::]:80;
     server_name ubuntu-next-app.se-rmutl.net;
    location / {
         proxy_pass http://127.0.0.1:3002; # !!! -
change to your app port
         proxy_http_version 1.1;
         proxy_set_header Upgrade $http_upgrade;
         proxy_set_header Connection 'upgrade';
         proxy_set_header Host $host;
```

proxy_cache_bypass \$http_upgrade;

}

}

```
GNU nano 6.2
server {
         listen 80;
         listen [::]:80;
         server_name ubuntu-next-app.se-rmutl.net;
        location / {
                proxy_pass http://127.0.0.1:3002; # !!! - change to your app port
                proxy_http_version 1.1;
                proxy_set_header Upgrade $http_upgrade;
                proxy_set_header Connection 'upgrade';
                proxy_set_header Host $host;
                proxy_cache_bypass $http_upgrade;
        }
# Virtual Host configuration for example.com
# You can move that to a different file under sites-available/ and symlink that
# to sites-enabled/ to enable it.
#server {
        listen 80;
        listen [::]:80;
#
#
        server_name example.com;
        root /var/www/example.com;
        index index.html;
        location / {
                try_files $uri $uri/ =404;
#}
```

sudo systemctl restart nginx

```
devuser@server:~$ sudo systemctl restart nginx
devuser@server:~$
```

10.211.55.5 ubuntu-next-app-rmutl.net (edit in terminal -> sudo nano /etc/host)

```
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When the system is booting. Do not change this entry.

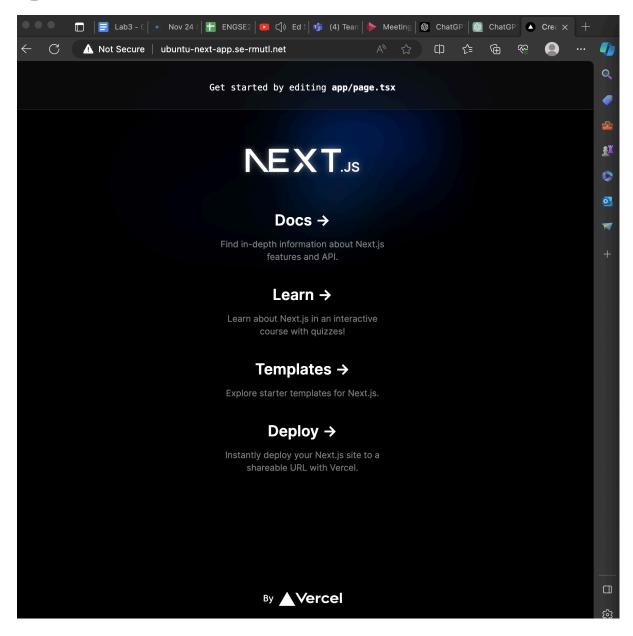
##

127.0.0.1 localhost engse203.lab1
255.255.255 broadcasthost
::1 localhost
10.211.55.5 myapp.se-rmutl.net
10.211.55.5 my-react-app.se-rmutl.net
10.211.55.5 ubuntu-next-app.se-rmutl.net
```

cd /var/www/Lab3/my-react-app

```
devuser@server:~$ cd /var/www/Lab3/ubuntu-next-app
devuser@server:/var/www/Lab3/ubuntu-next-app$
```

npm start (run domain)



<u>How to start Reactjs application with PM2 as a</u> <u>service (Linux & MacOS) | by Devesu | Medium</u>