Lab3

Reactjs

1. cd /var/www

sudo mkdir lab3

devuser@server:~\$ cd /var/www

devuser@server:/var/www\$ sudo mkdir lab3

2. sudo chown -R \$USER:\$USER /var/www/lab3

devuser@server:~\$ sudo chown -R \$USER:\$USER /var/www/lab3

3. cd lab3

devuser@server:/var/www\$ cd lab3

4. npx create-react-app my-react-app

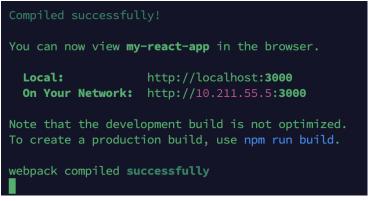
```
Need to install the following packages:
create-react-app
Need to install the following packages:
create-react-app@5.0.1
Ok to proceed? (y) y
npm deprecated tar@2.2.2: This version of tar is no longer supported, and will not receive security updates. Please upgr:
e asap.
246 packages are looking for funding
run `npm fund` for details
Removing template package using npm...
8 vulnerabilities (2 moderate, 6 high)
To address all issues (including breaking changes), run: npm audit fix --force
Git commit not created Error: Command failed: git commit -m "Initialize project using Create React App" at checkExecSyncError (node:child_process:890:11)
      at execSync (node:child_process:962:15)
at tryGitCommit (/var/www/lab3/my-react-app/node_modules/<u>react-scripts</u>/scripts/init.js:62:5)
at module.exports (/var/www/lab3/my-react-app/node_modules/<u>react-scripts</u>/scripts/init.js:350:25)
       at runScriptInThisContext (node:internal/vm:144:10)
   at runScript (node:internal/process/execution:92:62) {
    status: 128,
    signal: null,
    output: [ null, null, null ],
   stderr: null
```

5. cd my-react-app

devuser@server:/var/www/lab3\$ cd my-react-app

6. npm start

devuser@server:/var/www/lab3/my-react-app\$ npm start





devuser@server:/var/www/lab3/my-react-app\$ sudo nano package.json

```
GNU nano 6.2
"name": "my-react-app",
"version": "0.1.0",
  "@testing-library/jest-dom": "^5.17.0",
  "react-dom": "^18.2.0",
  "web-vitals": "^2.1.4"
  "start": "PORT=3001 react-scripts start",
  "build": "react-scripts build",
  "test": "react-scripts test",
  "eject": "react-scripts eject"
},
"eslintConfig": {
   "react-app",
    "react-app/jest"
 "production": [
    "not dead",
    "not op_mini all"
    "last 1 chrome version",
    "last 1 firefox version",
    "last 1 safari version"
```

```
You can now view my-react-app in the browser.

Local: http://localhost:3001
On Your Network: http://10.211.55.5:3001

Note that the development build is not optimized. To create a production build, use npm run build.

webpack compiled successfully
```

8. sudo ufw allow 3001

```
devuser@server:/var/www/lab3/my-react-app$ sudo ufw allow 3001
Skipping adding existing rule
Skipping adding existing rule (v6)
```

9. cd /etc/nginx/sites-available

```
devuser@server:~$ cd /etc/nginx/sites-available
```

sudo cp myapp my-eract-app

```
devuser@server:/etc/nginx/sites-available$ sudo cp myapp my-eract-app
```

10 . sudo nano my-react-app

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

```
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;
}
```

11. sudo systemctl restart nginx

devuser@server:/etc/nginx/sites-available\$ sudo systemctl restart nginx

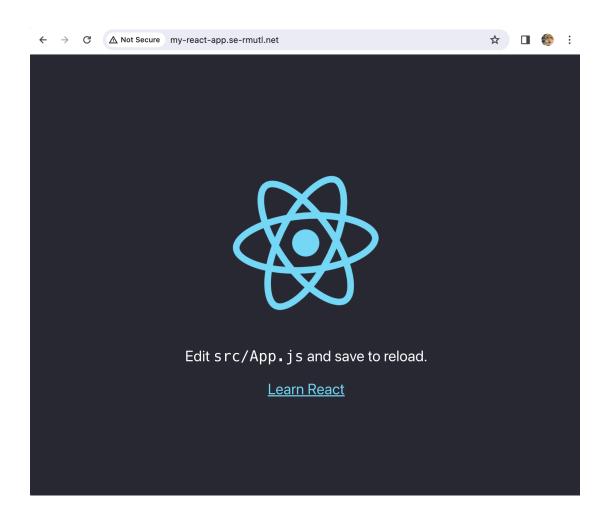
12. sudo nginx -t

```
devuser@server:/etc/nginx/sites-available$ sudo nginx -t
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
nginx: configuration file /etc/nginx/nginx.conf test is successful
```

13. sudo nano /etc/hosts

```
fang@admins-iMac-2 ~ % sudo nano /etc/hosts
```

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



Nextjs

1. cd /var/www/lab3

devuser@server:~\$ cd /var/www/lab3

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

3. cd ubuntu-next-app

devuser@server:/var/www/lab3\$ cd ubuntu-next-app

4. npm run build

devuser@server:/var/www/lab3/ubuntu-next-app\$ npm run build

5. npm start

6. sudo nano package.json

```
{
    "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",
        "etypes/react": "^18",
        "etypes/react": "^18",
        "etypes/react": "^18",
        "autoprefixer": "^10.0.1",
        "postcss": "^8",
        "tailwindcss": "^3.3.0",
        "eslint": "^8",
        "eslint-config-next": "14.0.4"
    }
}
```

7. sudo ufw allow 3002

```
devuser@server:/var/www/lab3/ubuntu-next-app$ sudo ufw allow 3002
Rule added
Rule added (v6)
```

npm start

```
devuser@server:/var/www/lab3/ubuntu-next-app$ npm start

> ubuntu-next-app@0.1.0 start

> next start -p 3002

▲ Next.js 14.0.4

- Local: http://localhost:3002

✓ Ready in 192ms
```



9. cd /etc/nginx/sites-available

devuser@server:~\$ cd /etc/nginx/sites-available

10. sudo cp myapp ubuntu-next-app sudo nano ubuntu-next-app

```
devuser@server:/etc/nginx/sites-available$ sudo cp myapp ubuntu-next-app
[sudo] password for devuser:
devuser@server:/etc/nginx/sites-available$ sudo nano ubuntu-next-app
```

```
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;
}
```

11. sudo systemctl restart nginx

devuser@server:/etc/nginx/sites-available\$ sudo systemctl restart nginx

12. sudo nginx -t

```
devuser@server:/etc/nginx/sites-available$ sudo nginx -t
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
nginx: configuration file /etc/nginx/nginx.conf test is successful
```

13. sudo nano /etc/hosts

fang@admins-iMac-2 ~ % sudo nano /etc/hosts

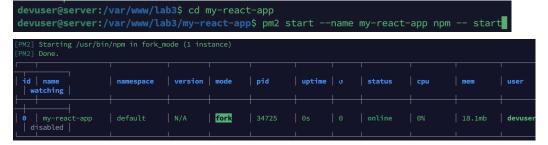
10.211.55.5 ubuntu-next-app.se-rmutl.net

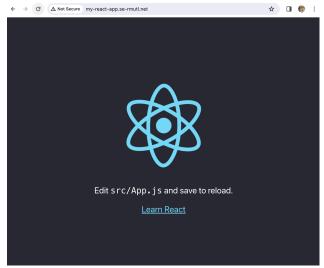


PM2

- 1. ติดตั้ง pm2 ในไฟล์ sudo npm install pm2 -g
- 2. cd my-react-app

pm2 start --name my-react-app npm -- start





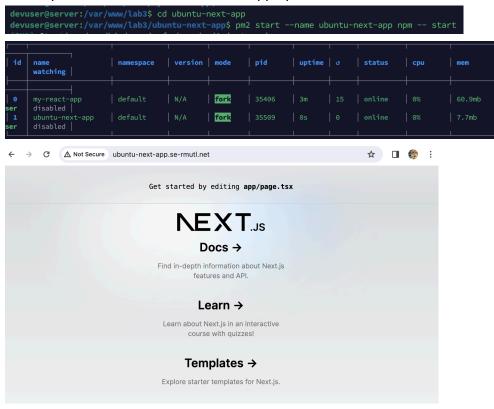
pm2 stop my-react-app



ทำกับ NextJs ด้วยเหมือนกัน

1. cd ubuntu-next-app

pm2 start --name ubuntu-next-app npm -- start



pm2 stop ubuntu-next-app



502 Bad Gateway

nginx/1.18.0 (Ubuntu)