# React App with NGINX

## Objective

We will deploy a React App using Ubuntu(AWS EC2) and serve it with Nginx from the respective VM's public IP.

### What You'll Need

- A running **Ubuntu VM** (cloud or local)
- Basic knowledge of Linux commands
- Internet access from the VM

## Install Software & Application Modification

#### 1. Install Node.js & npm

- 1. sudo apt update
- 2. sudo apt install -y nodejs npm
- 3. node -v && npm -v

#### 2. Install and Start Nginx

- 1. sudo apt install -y nginx
- 2. sudo systemctl start nginx
- 3. sudo systemctl enable nginx

#### 3. Clone the React App Repo

- 1. git clone https://github.com/pravinmishraaws/my-react-app.git
- 2. cd my-react-app

#### 4. Open the App. is file

- a. Navigate to your React app's source folder:
  - 1. cd my-react-app/src
- b. Open the App.js file in a text editor:
  - 1. nano App.js

(or use vi/vim if you prefer)

c. **Modify the content** 

```
<h2>Deployed by: <strong>Your Full Name</strong></h2>
Date: <strong>DD/MM/YYYY</strong>
```

Update your details like: Your Full Name & Date

#### **Build Application for Production:**

- 1. Install Dependencies & Build App
  - 1. npm install
  - 2. npm run build
- 2. Serve React App via Nginx
  - 1. sudo rm -rf /var/www/html/\*
  - 2. sudo cp -r build/\* /var/www/html/
  - 3. sudo chown -R www-data:www-data/var/www/html
  - 4. sudo chmod -R 755 /var/www/html
- 3. Configure Nginx

Replace the default config:

```
echo 'server {
    listen 80;
    server_name _;
    root /var/www/html;
    index index.html;
```

```
location / {
  try_files $uri /index.html;
}
error_page 404 /index.html;
}' | sudo tee /etc/nginx/sites-available/default > /dev/null
```

sudo systemctl restart nginx

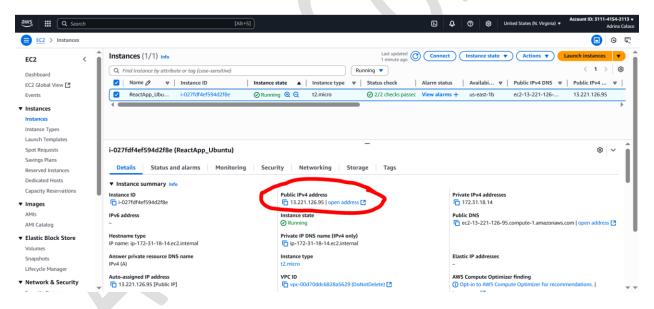
#### 4. Test the App

Get your public IP:

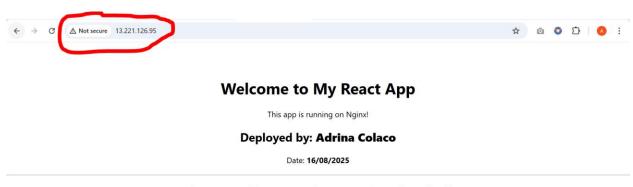
1. curl ifconfig.me

Access it in your browser: http://<your-public-ip>

Public URL of app: http://13.221.126.95/



### Screenshot of the browser view



P.S. This post is part of the FREE DevOps for Beginners Cohort run by **Pravin Mishra**.

You can start your DevOps journey for free from his <u>YouTube Playlist</u>.

Connect with Pravin on LinkedIn.



## Terminal output of npm run build or curl <public-ip>

