# **How to Deploy React js app Frontend on aws ec2 with Pm2**

**Step 1:** Install Node.js and npm

**sudo yum update**

Updates the list of available software on your server to get the latest updates.

**sudo yum install nodejs**

Installs Node.js, which is needed to run JavaScript code on the server.

**sudo yum install npm**

Installs npm, which helps you manage the libraries and tools your React app needs.

**sudo yum install git**

This command installs Git and its dependencies on your EC2 instance.

**Step 3: Install PM2**

**sudo npm install pm2 -g**

Installs PM2 globally so you can use it to manage your app. PM2 helps keep your app running smoothly.

**Step 4: Transfer or Clone Your React App**

**git clone https://github.com/your-repo/react-app.git**

Copies your React app from GitHub to your EC2 instance. Replace your-repo with your actual repository URL.

cd react-app

Changes to the directory where your app’s files are located so you can work with them.

**Step 5: Build Your React App**

**npm install**

Installs the dependencies your app needs based on the package.json file.

**npm run build**

Creates a production version of your app, which is optimized and ready to be served. It places the build files in a build folder.

**Step 6: Serve the App with PM2**

**pm2 serve build/ 3000 --name "react-app"**

Uses PM2 to serve the static files from the build directory on port 3000. PM2 ensures your app stays running.

**Step 7: Keep PM2 Running on Reboots**

**pm2 startup**

Sets up PM2 to start automatically when your server reboots.

**pm2 save**

Saves the current PM2 process list so that it will restart automatically with your server.

**Use nano to create and open the .env file. If the file does not exist, nano will create it:**

**nano .env**