Hosting on ec2 on same ip with ssh

Absolutely! Here's a **complete step-by-step guide** to deploy your **Node.js + Vite React full-stack app** on an **AWS EC2 instance (Ubuntu)** using **SSH and PM2**.

**🚀 FULL DEPLOYMENT GUIDE (Frontend + Backend on EC2)**

**✅ Prerequisites (on your local Windows machine)**

1. ✅ You’ve created an EC2 instance (Ubuntu)
2. ✅ You have your **.pem file** (SSH key)
3. ✅ Security group allows:
   * **Port 22** (SSH) from 0.0.0.0/0
   * **Port 80** (HTTP) from 0.0.0.0/0
   * (Optional: Port 5000 if accessing backend directly)
4. ✅ You have Node.js, npm, and Git installed locally
5. ✅ Your full-stack project structure is something like:

Hosting/

├── backend/

│ ├── index.js

│ ├── .env

│ └── ...

├── frontend/

│ ├── vite.config.js

│ ├── .env.development

│ └── ...

**🛠 STEP 1: SSH into your EC2 instance**

From **PowerShell**:

cd path\to\your\pem\file

ssh -i "access.pem" ubuntu@<YOUR\_EC2\_PUBLIC\_IP>

**📂 STEP 2: Upload Your Project**

**Option A: Use SCP to copy your entire project folder**

scp -i access.pem -r E:\Hosting ubuntu@<YOUR\_EC2\_PUBLIC\_IP>:~/myapp

You’ll now have your full project at: ~/myapp/Hosting

**🏗 STEP 3: Install dependencies on EC2**

Once inside EC2 (Ubuntu terminal):

cd ~/myapp/Hosting

sudo apt update

sudo apt install -y nodejs npm

sudo npm install -g pm2

Check versions:

node -v

npm -v

pm2 -v

**⚙️ STEP 4: Setup and Run Backend**

cd ~/myapp/Hosting/backend

npm install

# If you use .env:

nano .env # Or cp .env.example .env if applicable

# Then start it with PM2

pm2 start index.js --name backend

**🌐 STEP 5: Setup and Build Frontend**

cd ~/myapp/Hosting/frontend

npm install

npm run build

Then serve it:

sudo pm2 serve dist 80 --name frontend

⚠️ Port 80 requires sudo on Linux

**✅ STEP 6: Save and Autostart on Reboot**

pm2 save

pm2 startup

# Follow the output and run the command it gives (with sudo)

**🌍 STEP 7: Open Your App in Browser**

Now go to:

http://<YOUR\_EC2\_PUBLIC\_IP>

You should see your React app 🎉  
If backend is connected, API calls should also work.

**🔐 BONUS (Optional but Recommended)**

| **Task** | **Why** | **Guide** |
| --- | --- | --- |
| Nginx reverse proxy | Avoid sudo, support domain + HTTPS | Ask me and I’ll guide you |
| HTTPS + domain | Secure your app | Use Let’s Encrypt with Nginx |
| Auto deploy script | Sync local code to EC2 in 1 command | Ask if needed |

**🧹 CLEANUP (Optional)**

To reduce server size:

rm -rf node\_modules .git

**✅ Summary Checklist**

| **Task** | **Status** |
| --- | --- |
| EC2 created and SSH access | ✅ Done |
| Files uploaded to EC2 | ✅ Done |
| Backend running with PM2 | ✅ Done |
| Frontend built + served with PM2 | ✅ Done |
| Persistent on reboot | ✅ Done |
| Accessed via public IP | ✅ Done |

Let me know if you want to:

* Add Nginx + HTTPS + custom domain
* Automate deployment from your local machine

You're 95% production-ready 🚀