**You said:**

create a vuejs simple appn and then we push code on github after this start deploying appn on aws ec2 - step by step from scratch please - let's start - please step by step from scratch - just a simple vuejs simple appn

**ChatGPT said:**

Let's go step by step to create a **Vue.js** application, push it to **GitHub**, and deploy it on **AWS EC2**.

**Step 1: Set Up a Vue.js Project**

**1. Install Node.js and npm (if not installed)**

Check if Node.js and npm are installed:

sh

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node -v

npm -v

If not installed, download from [Node.js Official Website](https://nodejs.org/).

**2. Install Vue CLI**

sh

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npm install -g @vue/cli

**3. Create a New Vue.js App**

sh

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vue create vue-ec2-app

Choose **"Default"** (babel, eslint) when prompted.

**4. Run the Vue.js App Locally**

sh

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cd vue-ec2-app

npm run serve

Visit **http://localhost:8080/** to verify the app is running.

**Step 2: Push Vue.js Code to GitHub**

**1. Initialize a Git Repository**

sh

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git init

git add .

git commit -m "Initial commit"

**2. Create a GitHub Repository**

* Go to [GitHub](https://github.com/) → Click **New Repository**.
* Name it **vue-ec2-app**.
* Do NOT initialize with README or .gitignore (Vue CLI already has them).

**3. Push Code to GitHub**

sh

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git branch -M main

git remote add origin https://github.com/YOUR\_GITHUB\_USERNAME/vue-ec2-app.git

git push -u origin main

**Step 3: Set Up AWS EC2 Instance**

**1. Launch an EC2 Instance**

* Go to **AWS EC2 Console** → Click **Launch Instance**.
* Choose **Ubuntu 22.04 LTS** (or Amazon Linux).
* Select **t2.micro** (free-tier eligible).
* Configure **Security Group**:
  + Allow **SSH (22)** → **Your IP**.
  + Allow **HTTP (80)** → **Anywhere**.
  + Allow **HTTPS (443)** → **Anywhere**.
* Click **Launch** → Download **.pem key**.

**2. Connect to EC2 via SSH**

sh

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chmod 400 your-key.pem

ssh -i your-key.pem ubuntu@your-ec2-ip

**3. Install Node.js and Git on EC2**

sh

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curl -fsSL https://deb.nodesource.com/setup\_18.x | sudo -E bash -

sudo apt install -y nodejs

node -v

npm -v

sudo apt install -y git

**4. Clone Your GitHub Repository**

sh

CopyEdit

git clone https://github.com/YOUR\_GITHUB\_USERNAME/vue-ec2-app.git

cd vue-ec2-app

**Step 4: Build and Serve Vue App on EC2**

**1. Install Dependencies and Build**

sh

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npm install

npm run build

This will generate a dist/ folder.

**2. Install and Run a Web Server**

sh

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npm install -g serve

serve -s dist -l 80

**3. Allow Traffic on Port 80**

If the app is not loading in the browser:

sh

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sudo ufw allow 80

Now, visit **http://your-ec2-ip/** to see your Vue.js app running.

**Next Steps**

✅ Vue.js app created  
✅ Code pushed to GitHub  
✅ EC2 instance set up  
✅ App deployed on EC2

Would you like to set up **Nginx** as a reverse proxy for better performance? 🚀

4o

**You said:**

https://github.com/deepanshu1334/vue-ec2-app.git

**ChatGPT said:**

Great! Your Vue.js project is now on GitHub: [vue-ec2-app](https://github.com/deepanshu1334/vue-ec2-app).

Now, let's **deploy the Vue app on AWS EC2**. Follow these steps:

**Step 1: Connect to Your EC2 Instance**

1. Open a terminal and connect via SSH:

sh

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chmod 400 your-key.pem

ssh -i your-key.pem ubuntu@your-ec2-ip

**Step 2: Install Node.js, npm, and Git**

Run the following commands to install **Node.js, npm, and Git**:

sh

CopyEdit

curl -fsSL https://deb.nodesource.com/setup\_18.x | sudo -E bash -

sudo apt install -y nodejs

node -v

npm -v

sudo apt install -y git

**Step 3: Clone Your Vue.js Project**

Inside the EC2 instance, run:

sh

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git clone https://github.com/deepanshu1334/vue-ec2-app.git

cd vue-ec2-app

**Step 4: Install Dependencies and Build the App**

sh

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npm install

npm run build

This will generate a dist/ folder containing the static files.

**Step 5: Serve the Vue App Using serve**

Install a static file server and serve your app:

sh

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npm install -g serve

serve -s dist -l 80

Now, visit **http://your-ec2-ip/** in your browser. Your Vue app should be live! 🎉

**Step 6: Keep the App Running (Optional)**

The serve command runs temporarily. To keep it running in the background, use **PM2**:

sh

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npm install -g pm2

pm2 serve dist 80 --name "vue-app"

pm2 startup

pm2 save

✅ **Vue.js app deployed on AWS EC2!** 🚀  
Would you like to set up **Nginx** as a reverse proxy for better performance?

4o

**You said:**

git set to manually installed. 0 upgraded, 0 newly installed, 0 to remove and 143 not upgraded. ubuntu@ip-172-31-46-154:~$ git clone https://github.com/deepanshu1334/vue-ec2-app.git cd vue-ec2-app Cloning into 'vue-ec2-app'... remote: Enumerating objects: 24, done. remote: Counting objects: 100% (24/24), done. remote: Compressing objects: 100% (18/18), done. remote: Total 24 (delta 3), reused 24 (delta 3), pack-reused 0 (from 0) Receiving objects: 100% (24/24), 111.65 KiB | 7.97 MiB/s, done. Resolving deltas: 100% (3/3), done. ubuntu@ip-172-31-46-154:~/vue-ec2-app$ npm install npm warn deprecated webpack-chain@6.5.1: Package no longer supported. Contact Support at https://www.npmjs.com/support for more info. npm warn deprecated stable@0.1.8: Modern JS already guarantees Array#sort() is a stable sort, so this library is deprecated. See the compatibility table on MDN: https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global\_Objects/Array/sort#browser\_compatibility npm warn deprecated rimraf@3.0.2: Rimraf versions prior to v4 are no longer supported npm warn deprecated inflight@1.0.6: This module is not supported, and leaks memory. Do not use it. Check out lru-cache if you want a good and tested way to coalesce async requests by a key value, which is much more comprehensive and powerful. npm warn deprecated glob@7.2.3: Glob versions prior to v9 are no longer supported npm warn deprecated eslint@7.32.0: This version is no longer supported. Please see https://eslint.org/version-support for other options. npm warn deprecated consolidate@0.15.1: Please upgrade to consolidate v1.0.0+ as it has been modernized with several long-awaited fixes implemented. Maintenance is supported by Forward Email at https://forwardemail.net ; follow/watch https://github.com/ladjs/consolidate for updates and release changelog npm warn deprecated @humanwhocodes/object-schema@1.2.1: Use @eslint/object-schema instead npm warn deprecated @humanwhocodes/config-array@0.5.0: Use @eslint/config-array instead npm warn deprecated @babel/plugin-proposal-class-properties@7.18.6: This proposal has been merged to the ECMAScript standard and thus this plugin is no longer maintained. Please use @babel/plugin-transform-class-properties instead. added 918 packages, and audited 919 packages in 34s 117 packages are looking for funding run npm fund for details 8 vulnerabilities (4 moderate, 4 high) To address issues that do not require attention, run: npm audit fix To address all issues (including breaking changes), run: npm audit fix --force Run npm audit for details. npm notice npm notice New major version of npm available! 10.8.2 -> 11.2.0 npm notice Changelog: https://github.com/npm/cli/releases/tag/v11.2.0 npm notice To update run: npm install -g npm@11.2.0 npm notice ubuntu@ip-172-31-46-154:~/vue-ec2-app$ npm run build > vue-ec2-app@0.1.0 build > vue-cli-service build All browser targets in the browserslist configuration have supported ES module. Therefore we don't build two separate bundles for differential loading. ⠹ Building for production... DONE Compiled successfully in 12749ms 4:35:20 AM File Size Gzipped dist/js/chunk-vendors.ecff954c.js 92.91 KiB 34.53 KiB dist/js/app.761fdd4b.js 13.06 KiB 8.42 KiB dist/css/app.aca52b35.css 0.33 KiB 0.23 KiB Images and other types of assets omitted. Build at: 2025-03-19T04:35:20.566Z - Hash: f8981974e9b87e3e - Time: 12749ms DONE Build complete. The dist directory is ready to be deployed. INFO Check out deployment instructions at https://cli.vuejs.org/guide/deployment.html ubuntu@ip-172-31-46-154:~/vue-ec2-app$ npm install -g serve npm error code EACCES npm error syscall mkdir npm error path /usr/lib/node\_modules/serve npm error errno -13 npm error [Error: EACCES: permission denied, mkdir '/usr/lib/node\_modules/serve'] { npm error errno: -13, npm error code: 'EACCES', npm error syscall: 'mkdir', npm error path: '/usr/lib/node\_modules/serve' npm error } npm error npm error The operation was rejected by your operating system. npm error It is likely you do not have the permissions to access this file as the current user npm error npm error If you believe this might be a permissions issue, please double-check the npm error permissions of the file and its containing directories, or try running npm error the command again as root/Administrator. npm error A complete log of this run can be found i

**ChatGPT said:**

You are facing a **permissions issue** when installing the global serve package. To fix this, follow these steps:

**Step 1: Install serve with Correct Permissions**

Instead of installing globally, use sudo:

sh

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sudo npm install -g serve

If this doesn't work, try:

sh

CopyEdit

sudo npm install -g serve --unsafe-perm=true --allow-root

**Step 2: Serve the Vue App**

Once serve is installed, run:

sh

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serve -s dist -l 80

Now, visit **http://your-ec2-ip/** in your browser to see the deployed Vue app. 🚀

**Alternative: Run as a Non-Root User**

If you want to install global packages without sudo, you can fix npm permissions:

sh

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mkdir ~/.npm-global

npm config set prefix '~/.npm-global'

export PATH=~/.npm-global/bin:$PATH

echo 'export PATH=~/.npm-global/bin:$PATH' >> ~/.bashrc

source ~/.bashrc

npm install -g serve

Now try running:

sh

CopyEdit

serve -s dist -l 80

Let me know if you face any issues! 😊

4o

**You said:**

To address issues that do not require attention, run: npm audit fix To address all issues (including breaking changes), run: npm audit fix --force Run npm audit for details. npm notice npm notice New major version of npm available! 10.8.2 -> 11.2.0 npm notice Changelog: https://github.com/npm/cli/releases/tag/v11.2.0 npm notice To update run: npm install -g npm@11.2.0 npm notice ubuntu@ip-172-31-46-154:~/vue-ec2-app$ npm run build > vue-ec2-app@0.1.0 build > vue-cli-service build All browser targets in the browserslist configuration have supported ES module. Therefore we don't build two separate bundles for differential loading. ⠹ Building for production... DONE Compiled successfully in 12749ms 4:35:20 AM File Size Gzipped dist/js/chunk-vendors.ecff954c.js 92.91 KiB 34.53 KiB dist/js/app.761fdd4b.js 13.06 KiB 8.42 KiB dist/css/app.aca52b35.css 0.33 KiB 0.23 KiB Images and other types of assets omitted. Build at: 2025-03-19T04:35:20.566Z - Hash: f8981974e9b87e3e - Time: 12749ms DONE Build complete. The dist directory is ready to be deployed. INFO Check out deployment instructions at https://cli.vuejs.org/guide/deployment.html ubuntu@ip-172-31-46-154:~/vue-ec2-app$ npm install -g serve npm error code EACCES npm error syscall mkdir npm error path /usr/lib/node\_modules/serve npm error errno -13 npm error [Error: EACCES: permission denied, mkdir '/usr/lib/node\_modules/serve'] { npm error errno: -13, npm error code: 'EACCES', npm error syscall: 'mkdir', npm error path: '/usr/lib/node\_modules/serve' npm error } npm error npm error The operation was rejected by your operating system. npm error It is likely you do not have the permissions to access this file as the current user npm error npm error If you believe this might be a permissions issue, please double-check the npm error permissions of the file and its containing directories, or try running npm error the command again as root/Administrator. npm error A complete log of this run can be found in: /home/ubuntu/.npm/\_logs/2025-03-19T04\_35\_46\_132Z-debug-0.log ubuntu@ip-172-31-46-154:~/vue-ec2-app$ sudo npm install -g serve added 88 packages in 5s 24 packages are looking for funding run npm fund for details npm notice npm notice New major version of npm available! 10.8.2 -> 11.2.0 npm notice Changelog: https://github.com/npm/cli/releases/tag/v11.2.0 npm notice To update run: npm install -g npm@11.2.0 npm notice ubuntu@ip-172-31-46-154:~/vue-ec2-app$ serve -s dist -l 80 file:///usr/lib/node\_modules/serve/build/main.js:242 throw new Error( ^ Error: Failed to serve: Error: listen EACCES: permission denied 0.0.0.0:80 at Server.setupListenHandle [as \_listen2] (node:net:1800:21) at listenInCluster (node:net:1865:12) at Server.listen (node:net:1953:7) at file:///usr/lib/node\_modules/serve/build/main.js:255:14 at new Promise (<anonymous>) at startServer (file:///usr/lib/node\_modules/serve/build/main.js:253:10) at process.processTicksAndRejections (node:internal/process/task\_queues:95:5) at async file:///usr/lib/node\_modules/serve/build/main.js:545:40 at Server.<anonymous> (file:///usr/lib/node\_modules/serve/build/main.js:242:11) at Server.emit (node:events:517:28) at emitErrorNT (node:net:1844:8) at process.processTicksAndRejections (node:internal/process/task\_queues:82:21) Node.js v18.20.6 ubuntu@ip-172-31-46-154:~/vue-ec2-app$

**ChatGPT said:**

You're encountering a **permission error (EACCES)** when trying to serve your Vue.js app on **port 80**. On Linux, ports **below 1024** require **root privileges**. Here are your options:

**Solution 1: Use a Different Port (Recommended)**

Try running the server on a non-privileged port (e.g., 3000):

sh

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serve -s dist -l 3000

Then, access your app at http://your-server-ip:3000.

**Solution 2: Use sudo (Not Recommended for Security Reasons)**

sh

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sudo serve -s dist -l 80

This runs the server with elevated privileges.

**Solution 3: Allow Node.js to Bind to Port 80 Without sudo**

Instead of using sudo, you can allow Node.js to bind to port **80** by running:

sh

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sudo setcap 'cap\_net\_bind\_service=+ep' $(which node)

Then, retry:

sh

CopyEdit

serve -s dist -l 80

**Solution 4: Use a Reverse Proxy (Best for Production)**

If this is for production, it's best to use **NGINX** or **Apache** as a reverse proxy. Example NGINX config:

nginx

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server {

listen 80;

server\_name your-server-ip;

location / {

root /home/ubuntu/vue-ec2-app/dist;

index index.html;

try\_files $uri /index.html;

}

}

Then restart NGINX:

sh

CopyEdit

sudo systemctl restart nginx

Let me know which solution works for you or if you need further assistance! 🚀

4o

**You said:**

ubuntu@ip-172-31-46-154:~/vue-ec2-app$ serve -s dist -l 3000 ERROR Cannot copy server address to clipboard: Couldn't find the xsel binary and fallback didn't work. On Debian/Ubuntu you can install xsel with: sudo apt install xsel. ┌───────────────────────────────────────────┐ │ │ │ Serving! │ │ │ │ - Local: http://localhost:3000 │ │ - Network: http://172.31.46.154:3000 │ │ │ └───────────────────────────────────────────┘

**ChatGPT said:**

Your Vue.js app is now **successfully running on port 3000**! 🎉

You can access it using:

* **Locally**: <http://localhost:3000> (only from the server itself)
* **Over the network**: <http://172.31.46.154:3000> (accessible from other devices in the same network)

**If You Want to Access It Publicly**

Since your server is on **AWS EC2**, make sure:

1. **Security Group Rules** allow inbound traffic on **port 3000**:
   * Go to AWS **EC2 Dashboard** → **Instances**
   * Select your instance → **Security tab**
   * Click on **Inbound rules → Edit inbound rules**
   * Add a new rule:
     + **Type**: **Custom TCP Rule**
     + **Port Range**: 3000
     + **Source**: 0.0.0.0/0 (or your specific IP for security)
   * Save changes.
2. **Try accessing** http://your-public-ip:3000 from your browser.
   * You can find your public IP in the AWS EC2 instance details.

Let me know if you need further assistance! 🚀

4o

**You said:**

PublicIPs: 13.232.179.53

**ChatGPT said:**

You can now access your Vue.js app publicly using:

🌍 **http://13.232.179.53:3000**

**If It's Not Working:**

1. **Security Group Check:**
   * Ensure your **AWS EC2 security group** allows **inbound traffic** on **port 3000** (as mentioned earlier).
   * Run this command on your server to verify open ports:

sh

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sudo netstat -tulnp | grep 3000

1. **Firewall Check:**
   * If using **UFW (Uncomplicated Firewall)** on Ubuntu, allow port 3000:

sh

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sudo ufw allow 3000/tcp

sudo ufw reload

1. **Process Check:**
   * Ensure the serve process is still running. If not, restart it:

sh

CopyEdit

serve -s dist -l 3000

Let me know if you need further help! 🚀

4o

**You said:**

working succesffuly - succesffuly deployed vuejs appn on ec2

**ChatGPT said:**

Awesome! 🚀🎉 Your Vue.js app is successfully deployed on EC2!

If you need help with:  
✅ **Setting up a reverse proxy (Nginx/Apache)** for better security and domain setup  
✅ **Configuring a custom domain** (DNS settings, SSL with Let's Encrypt)  
✅ **Automating deployments** (CI/CD with GitHub Actions, Jenkins)  
✅ **Optimizing performance** (caching, gzip, CloudFront)

Just let me know! Happy coding! 😃🔥