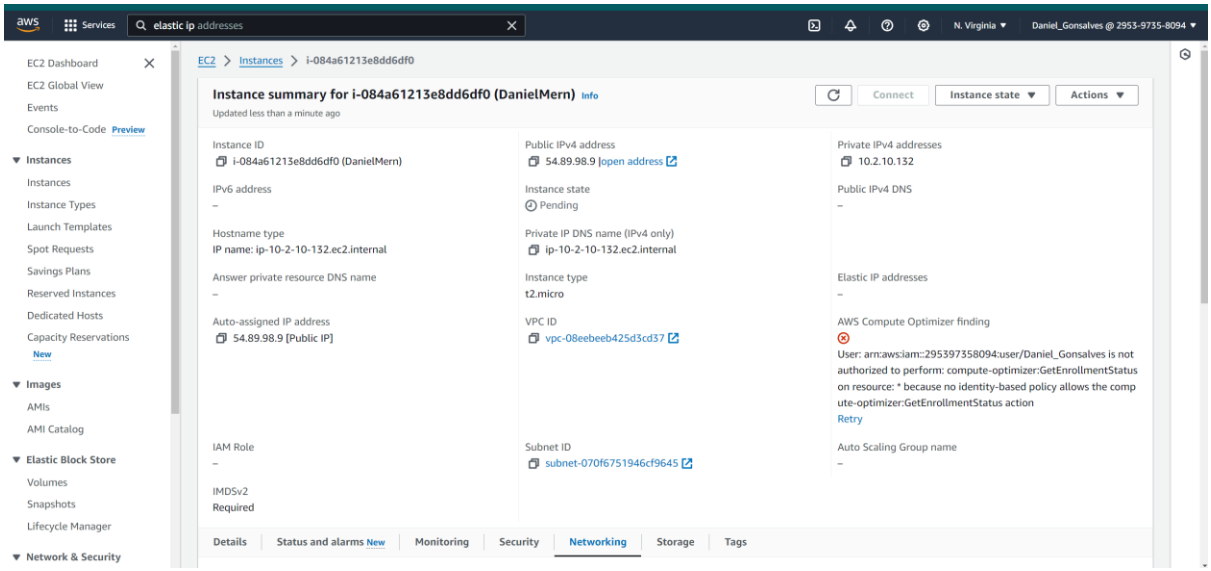
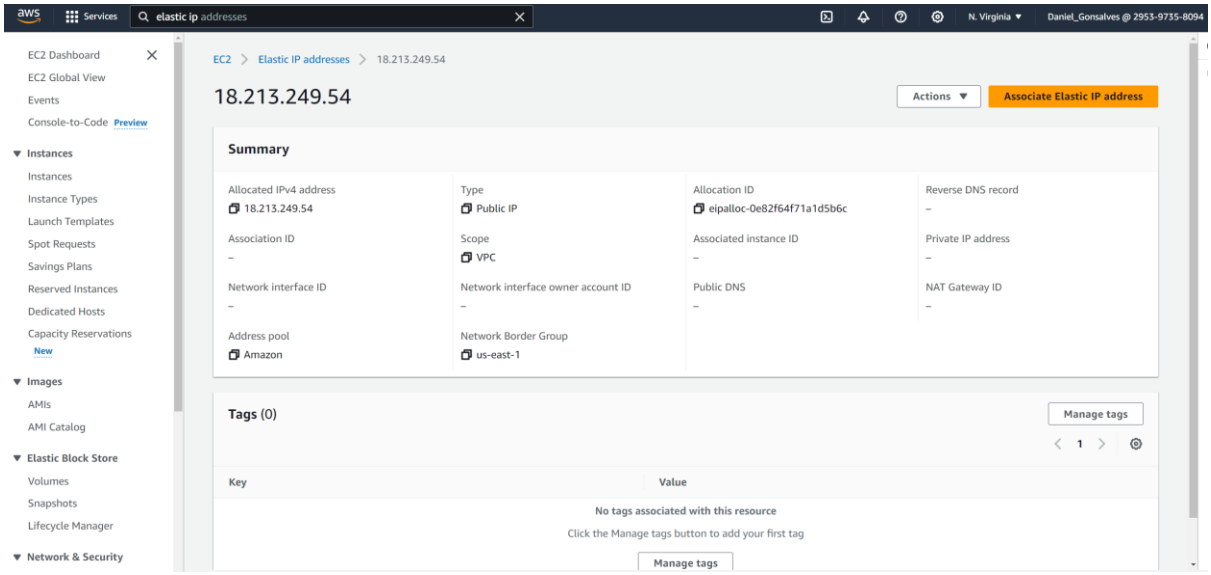
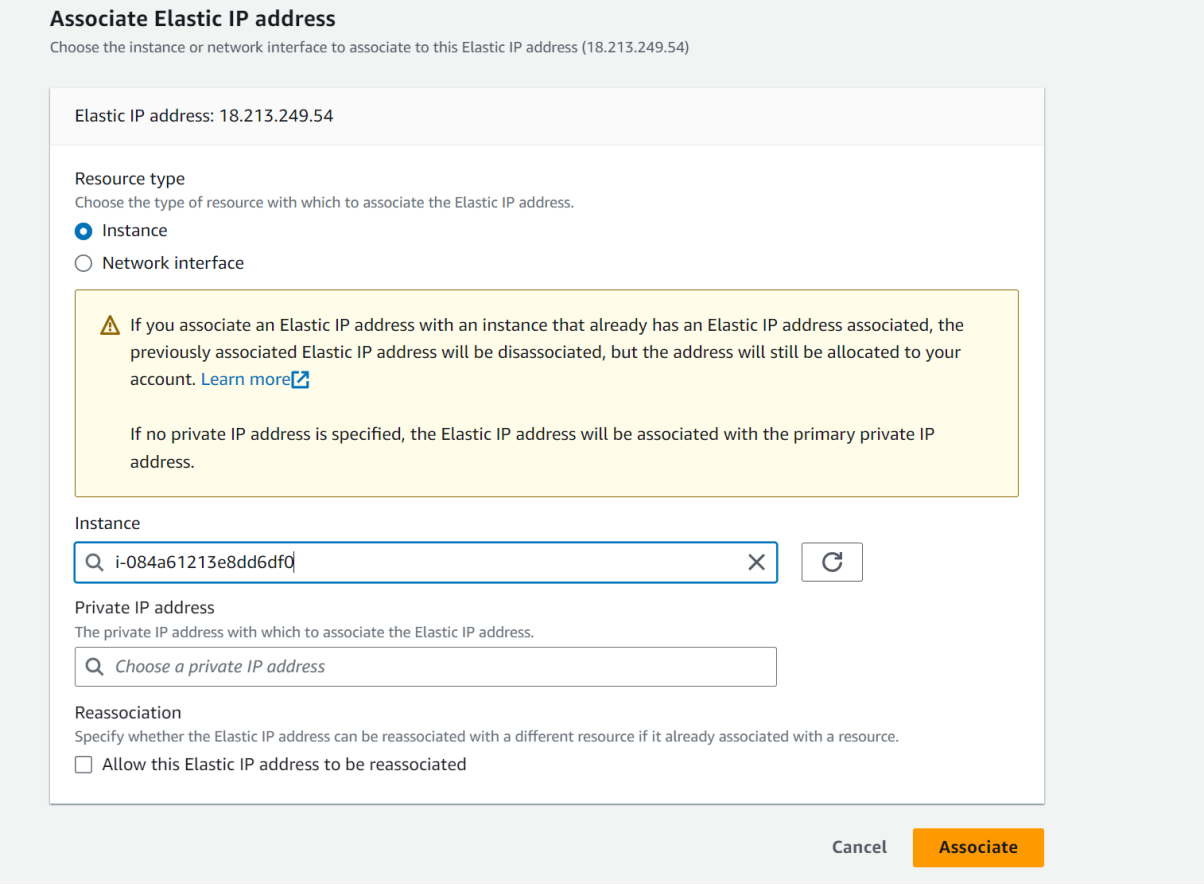
Domain – http://mernstack.danielb3.shop

Create an EC2 Instance

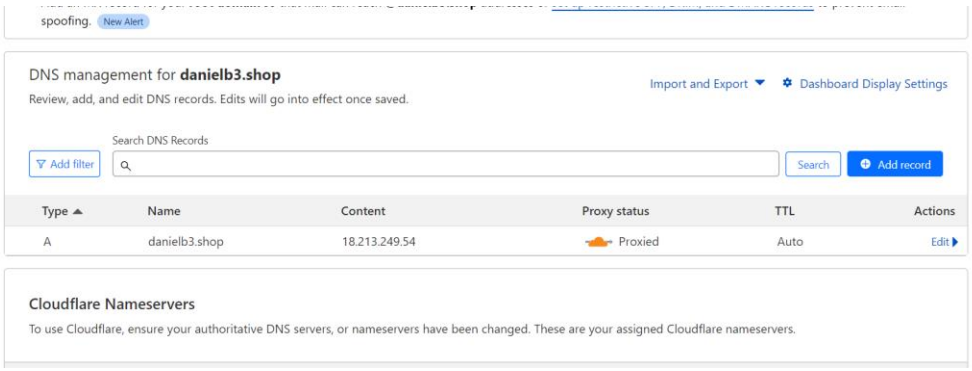


Attach Elastic IP for Static IP hosting





Using CloudFlare with a domain address- danielb3.shop, we shall connect the elastic ip to the domain



Server Configuration

1) Upgrade and Update Ubuntu

2) Install Node.js

sudo apt-get install nodejs

sudo apt install npm

3) Clone Git

git clone https://github.com/UnpredictablePrashant/TravelMemory

4) Install Nginx and Initiate

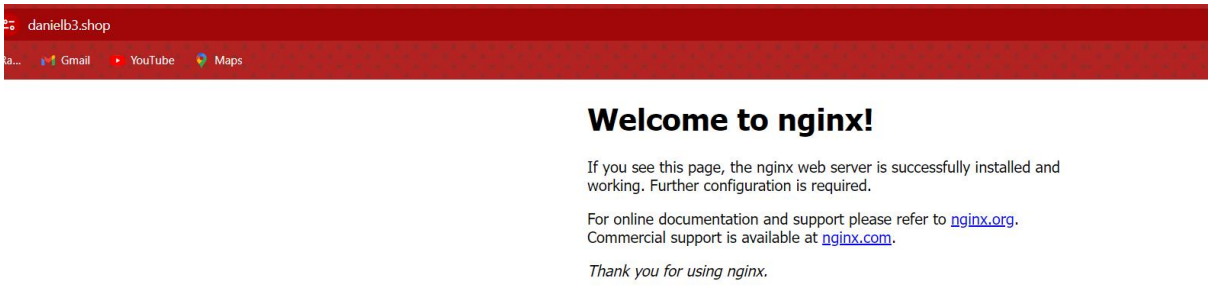
sudo apt install nginx

sudo nginx -t

sudo systemctl restart nginx

sudo systemctl status nginx

Verify if nginx is initiated



5) Install React

sudo npm install react

6) Install Dependencies

Navigate to backend and frontend directories respectively and run the command

sudo npm install

7) Fix Dependencies

Incase of certain conflicting dependencies run the command

npm audit fix –force

8) Navigate to the backend directory and initiate a .env file

In the .env file type:

MONGO_URI= mongodb+srv://username:password@travelmemorydb.uid.mongodb.net

9) Run the backend using pm2

pm2 start index.js

10) Update TravelMemory/frontend/src/url.js to include port number of the env file

11) Start the nginx configuration, configure sites enabled as :

```
server {
    listen 3000;
    server_name 54.172.244.145;

    location / {
        proxy_pass http://localhost:3000;
        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;
    }
}
```

DEPLOYMENT CONFIGURATION

```
ubuntu@ip-10-2-8-240:~/TravelMemory/frontend/src$ nano url.js
ubuntu@ip-10-2-8-240:~/TravelMemory/frontend/src$ ubuntu@ip-10-2-8-240:~/TravelMemory/frontend/src$ cd ..
ubuntu@ip-10-2-8-240:~/TravelMemory/frontend$ cd ..
ubuntu@ip-10-2-8-240:~/TravelMemory$ cd backend
ubuntu@ip-10-2-8-240:~/TravelMemory/backend$ node index.js
Server started at http://localhost:3000
^C
ubuntu@ip-10-2-8-240:~/TravelMemory/backend$ pm2 start index.js
[PM2] Applying action restartProcessId on app [index](ids: [ 0 ])
[PM2] [index](0) ✓
[PM2] Process successfully started
```

id	name	namespace	version	mode	pid	uptime	↺	status	cpu	mem	user	watching
0	index	default	1.0.0	fork	2281	0s	46	online	0%	7.0mb	ubuntu	disabled

```
ubuntu@ip-10-2-8-240:~/TravelMemory/backend$ pm2 list
```

id	name	namespace	version	mode	pid	uptime	↺	status	cpu	mem	user	watching
0	index	default	1.0.0	fork	2281	5s	46	online	0%	74.8mb	ubuntu	disabled

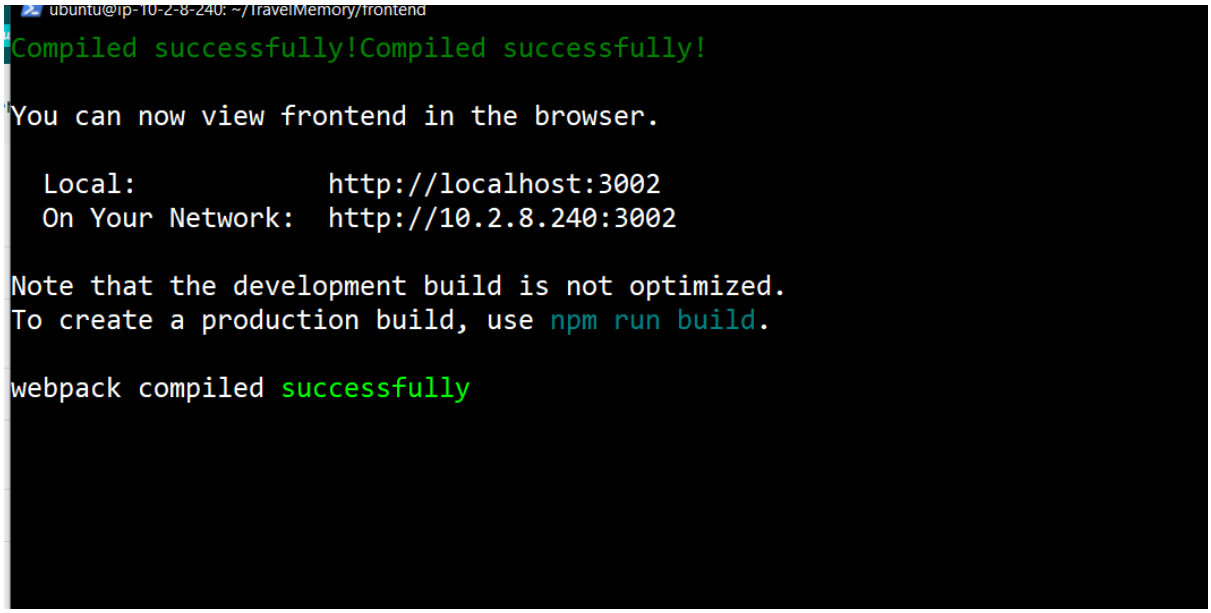
```
ubuntu@ip-10-2-8-240:~/TravelMemory/backend$ pm2 list
```

id	name	namespace	version	mode	pid	uptime	↺	status	cpu	mem	user	watching
0	index	default	1.0.0	fork	2281	12s	46	online	0%	68.6mb	ubuntu	disabled

Start the Front End to test it

```
ubuntu@ip-10-2-8-240:~/TravelMemory$ cd frontend
ubuntu@ip-10-2-8-240:~/TravelMemory/frontend$ npm start

> frontend@0.1.0 start
> react-scripts start
```



Deploy React after testing.