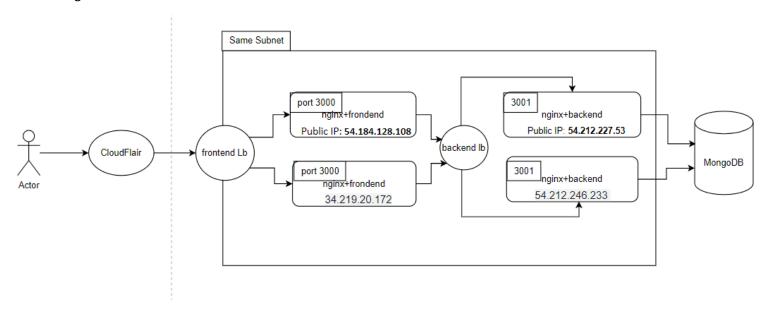
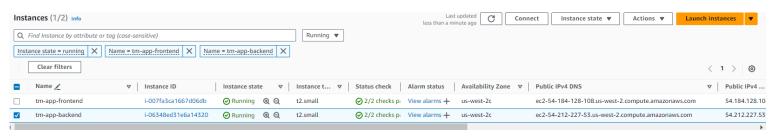
Diagram Flow



Creating 2 instance



Backend Configuration

- Public IP: 54.212.227.53 VPC: vpc-0321f38a7b594180d Subnet ID: subnet-0f30c30418def6379
- o Installing nodejs, npm and nginx
 - # sudo apt update
 - # sudo apt install nodejs -y
 - # sudo apt install npm -y
 - sudo apt install nginx –y
- Cloning the repo
 - # sudo su
 - # cd /
 - # git clone https://github.com/UnpredictablePrashant/TravelMemory
- /TravelMemory/backend
 - Create .env
 - MONGO_URI='mongodb+srv://bharat:<password>@bharatcluster01.xybln.mongodb.net/travelmemory'
 - PORT=3001
 - cd /TravelMemory/backend
 - npm install
 - node index.js &

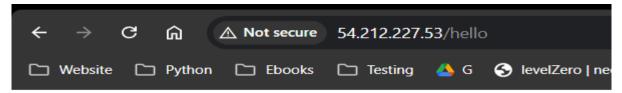
& to run the command in background

Nginx Configuration

- # sudo unlink /etc/nginx/sites-enabled/default
- # cd /etc/nginx/sites-available/
- # sudo vim custom_server.conf
- # systemctl restart nginx

Note: 1. in proxy_pass give your backend instance IP along with port so that any request landing on nginx port 80 can be redirected to backend port

2. Hit the ip of your instance without any port



Hello World!

- > Frontend Configuration
 - Public IP: 54.184.128.108 VPC: vpc-0321f38a7b594180d Subnet ID: subnet-0f30c30418def6379
 - Installing nodejs, npm and nginx
 - # sudo apt update
 - # sudo apt install nodejs -y
 - # sudo apt install npm -y
 - sudo apt install nginx –y
 - Cloning the repo
 - # sudo su
 - # cd /
 - # git clone https://github.com/UnpredictablePrashant/TravelMemory
 - TravelMemory/frontend
 - cd /TravelMemory/frontend/src
 - vim url.js
 - edit url to http://<your Ec2 backend IP>

```
coot@ip-172-31-11-7:/TravelMemory/frontend/src# cat url.js
export const baseUrl = process.env.REACT_APP_BACKEND_URL || "http://54.212.227.53";
```

- cd /TravelMemory/frontend
- npm install
- npm start &

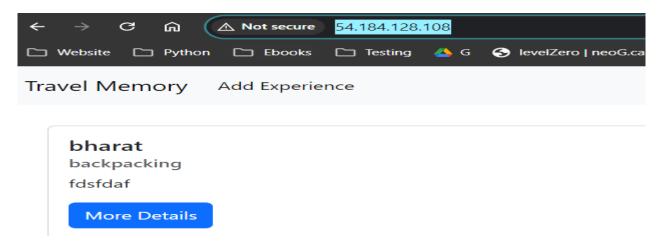
& to run the command in background

Nginx Configuration

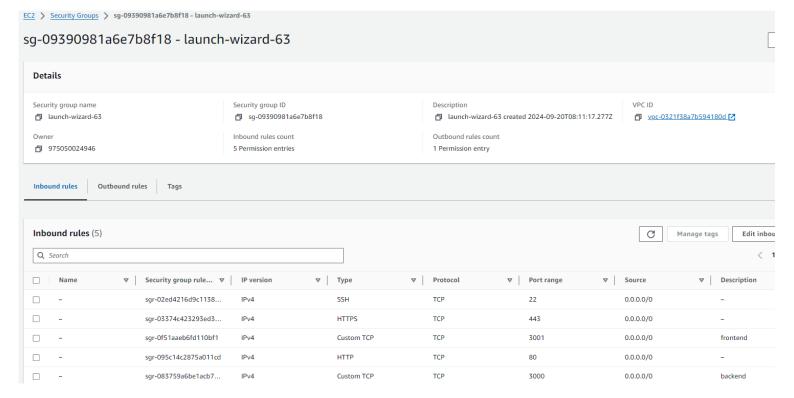
- # sudo unlink /etc/nginx/sites-enabled/default
- # cd /etc/nginx/sites-available/
- # sudo vim custom_server.conf
- # sudo systemctl restart nginx

Note: 1. in proxy_pass give your frontend instance IP along with port so that any request landing on nginx port 80 can be redirected to frontend port

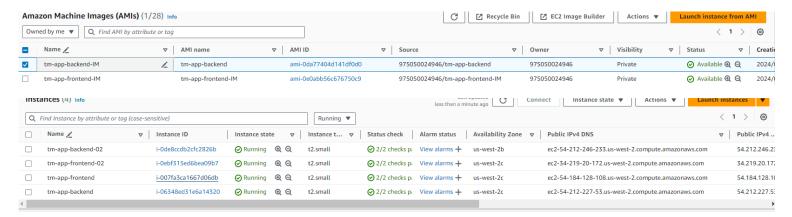
2. Hit the ip of your instance without any port



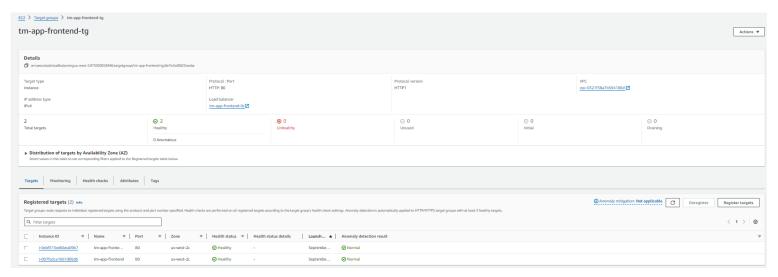
- Create security Group
 - o Name: sg-09390981a6e7b8f18 launch-wizard-63
 - o Ingress port:
 - ssh 22
 - http 80
 - port for backend : 3001 frontend port: 3001



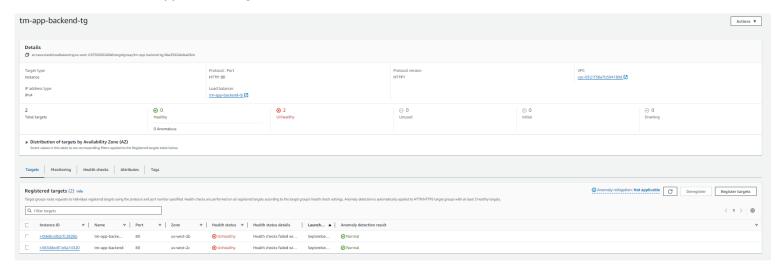
Create AMI image for frontend and backend and launch 1 more backend and frontend using AMI



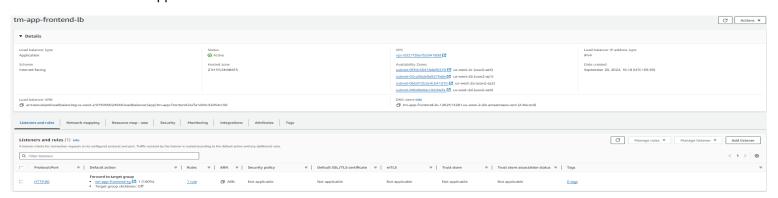
- Create target group for backend and frontend instances
 - o TG: tm-app-frontend-tg



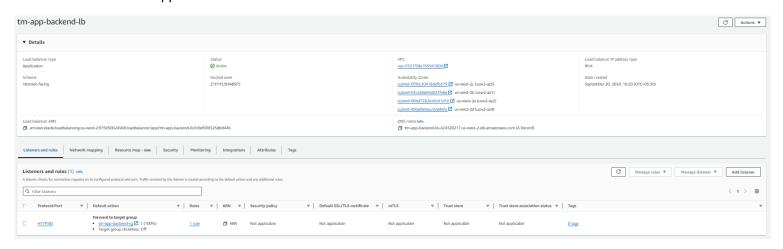
TG: tm-app-backend-tg



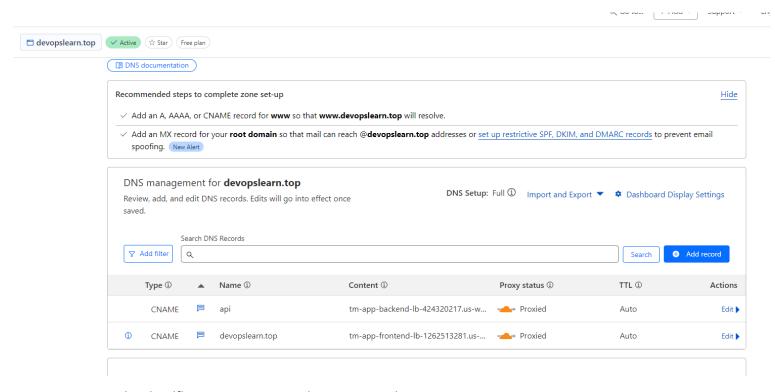
- > Create 2 LB one for frontend and frontend target group and via-versa for backend
 - o LB: tm-app-frontend-lb



o LB: tm-app-backend-lb



- ➤ Login into cloudflare <u>www.cloudflare.com</u> and go to DNS records
 - o Add CNAME for frontend LB
 - Add CNAME for Backend LB



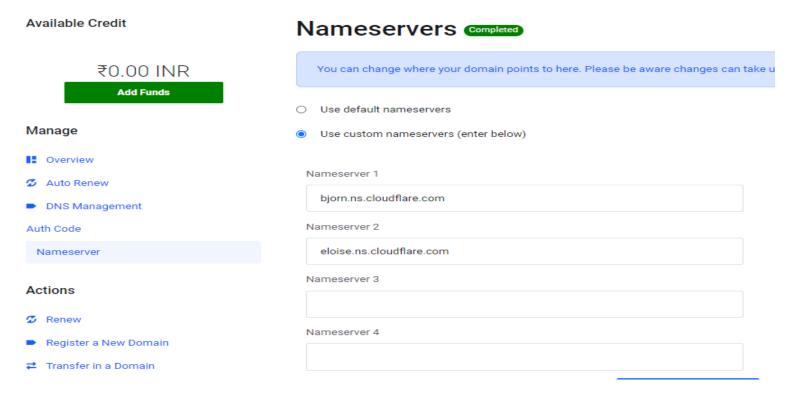
o Take Cloudflare Nameservers and map to your domain name servers



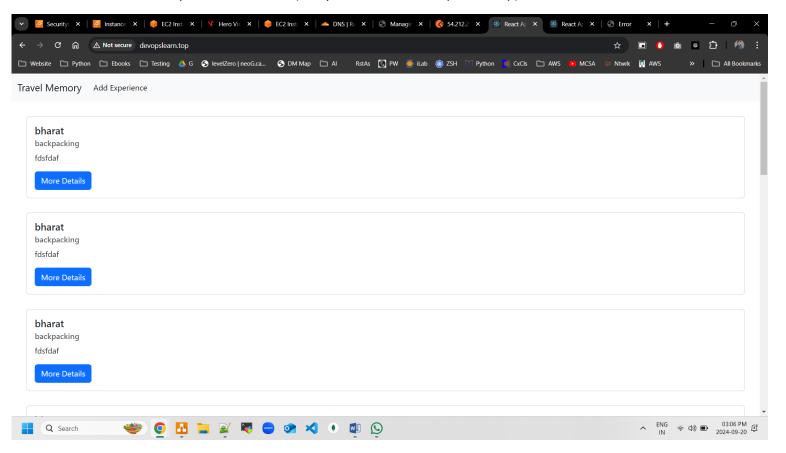
Login to the portal from where you have purchased the domain (in my case https://www.ambitionhost.in/)

Managing devopslearn.top

Portal Home / Client Area / My Domains / devopslearn.top



Once done then hit your domain name (in my case domain: devopslearn.top)



Create AIM images for your frontend and backend

