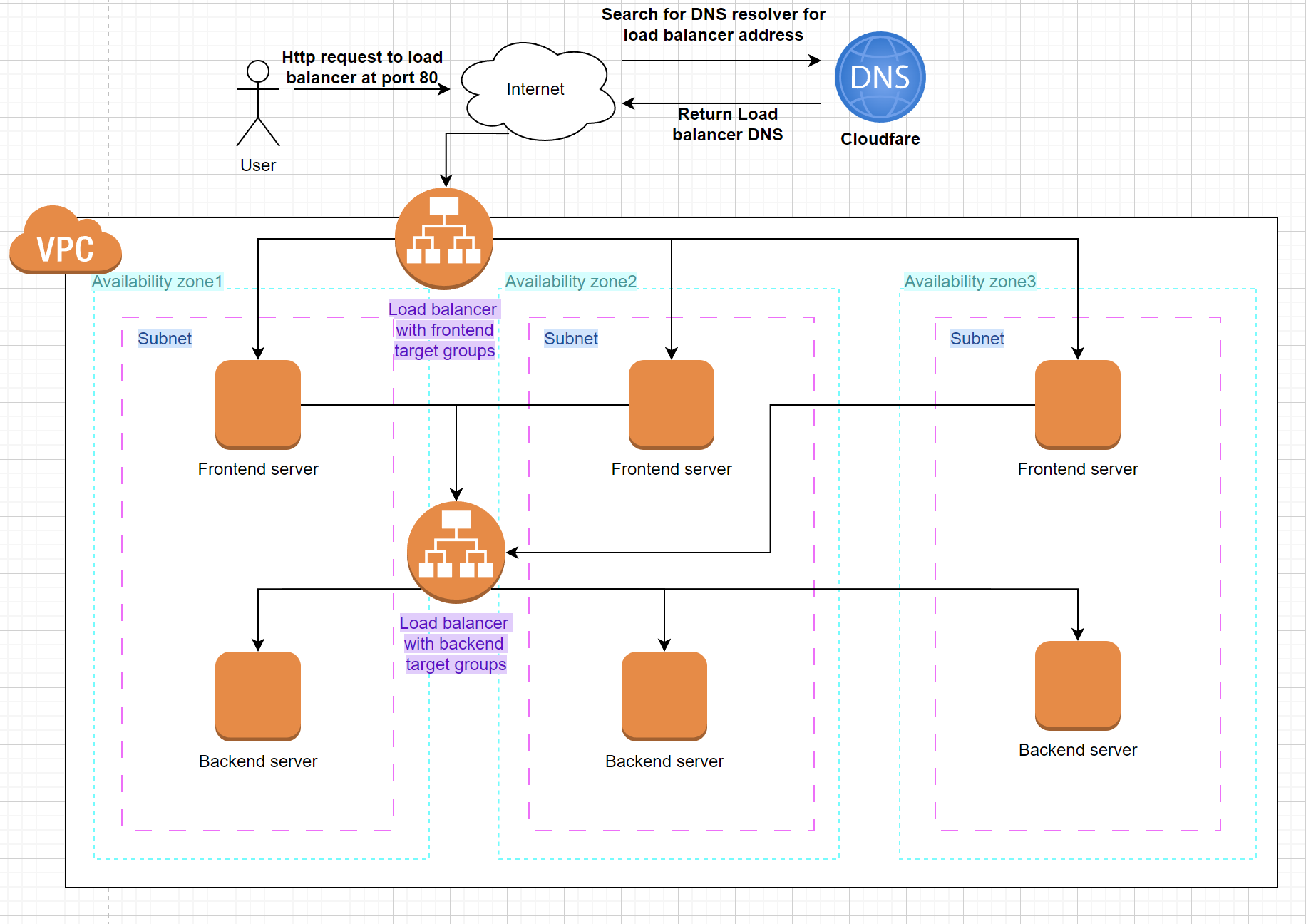
**Travel memory application**

**Architecture Diagram:  
  
**

**Steps for deployment process:**

**Step 1:**

Fork the repository<https://github.com/UnpredictablePrashant/TravelMemory.git> toyour own repository **-** <https://github.com/AbhashDas/TravelMemory>

**Step 2:**

Create EC2 instances for deployment of frontend and backend servers for TravelMemory. Make sure that port 3001, 80 and 3000 is open in security group.

**Backend configuration:**

* Launch the instance (tm\_backend) and clone the repository using below command

git clone <https://github.com/AbhashDas/TravelMemory>

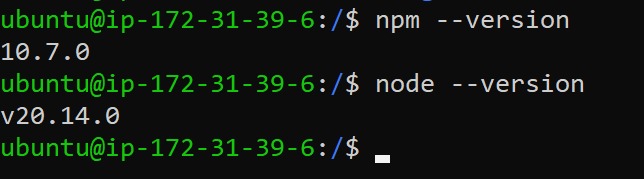
* Create the .env file in the TravelMemory/backend folder and add below details

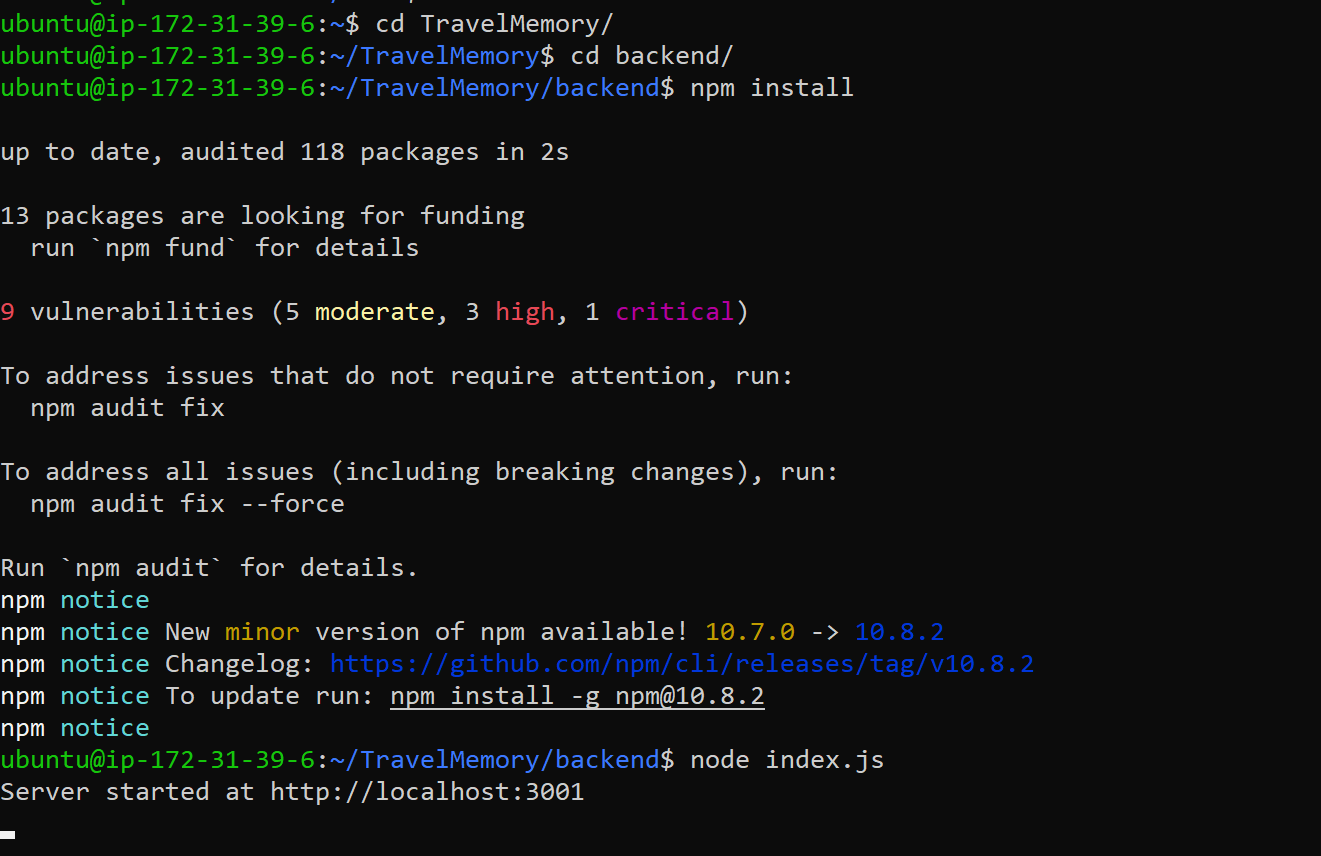
**MONGO\_URI=**'mongodb+srv://abhashstark:mongodb@cluster0.qse7ekt.mongodb.net/TravelMemory'

**PORT**=3001

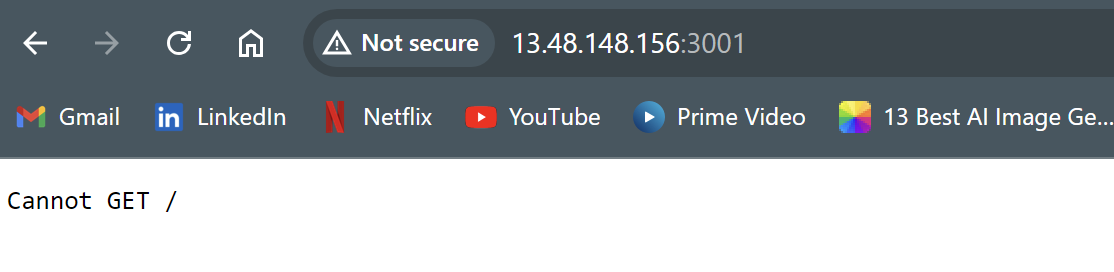
* **S**tart the backend server with command “**npm install**” and “**node index.js**”.

*NOTE: make sure that* ***node*** *and* ***npm*** *is installed in your ec2 machine.*





* This will start the backend server at port no **3001.**

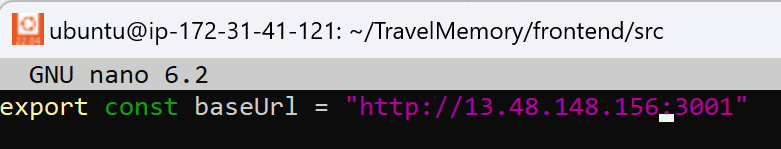


**Frontend configuration:**

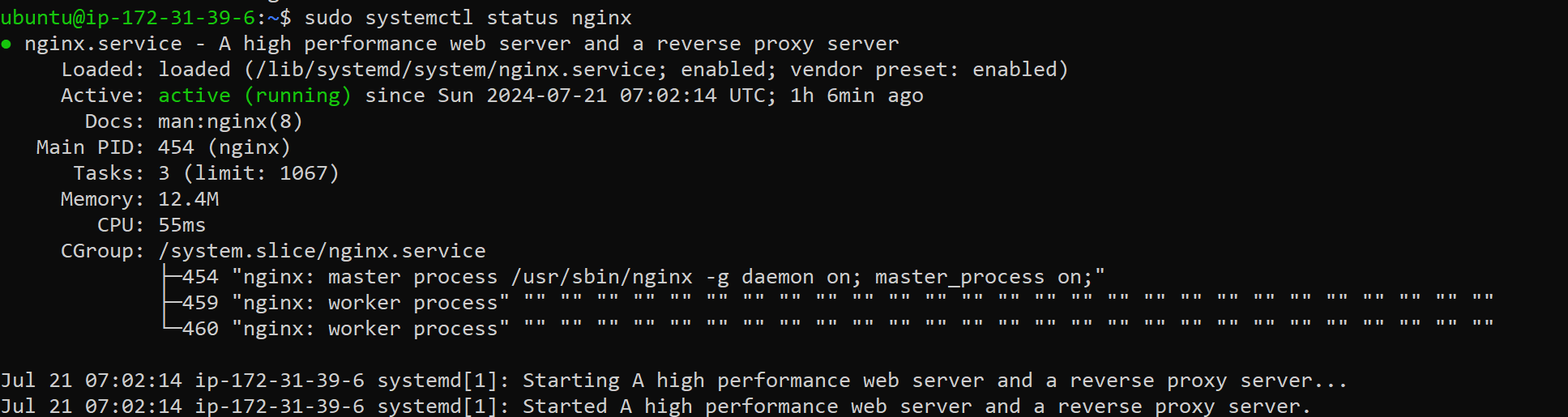
* Launch the instance (tm\_frontend) and clone the repository using below command

git clone <https://github.com/AbhashDas/TravelMemory>

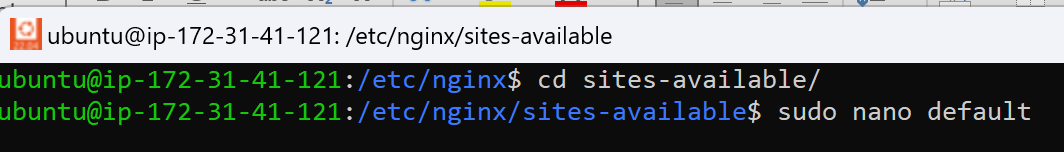
* Update url.js with backend IP

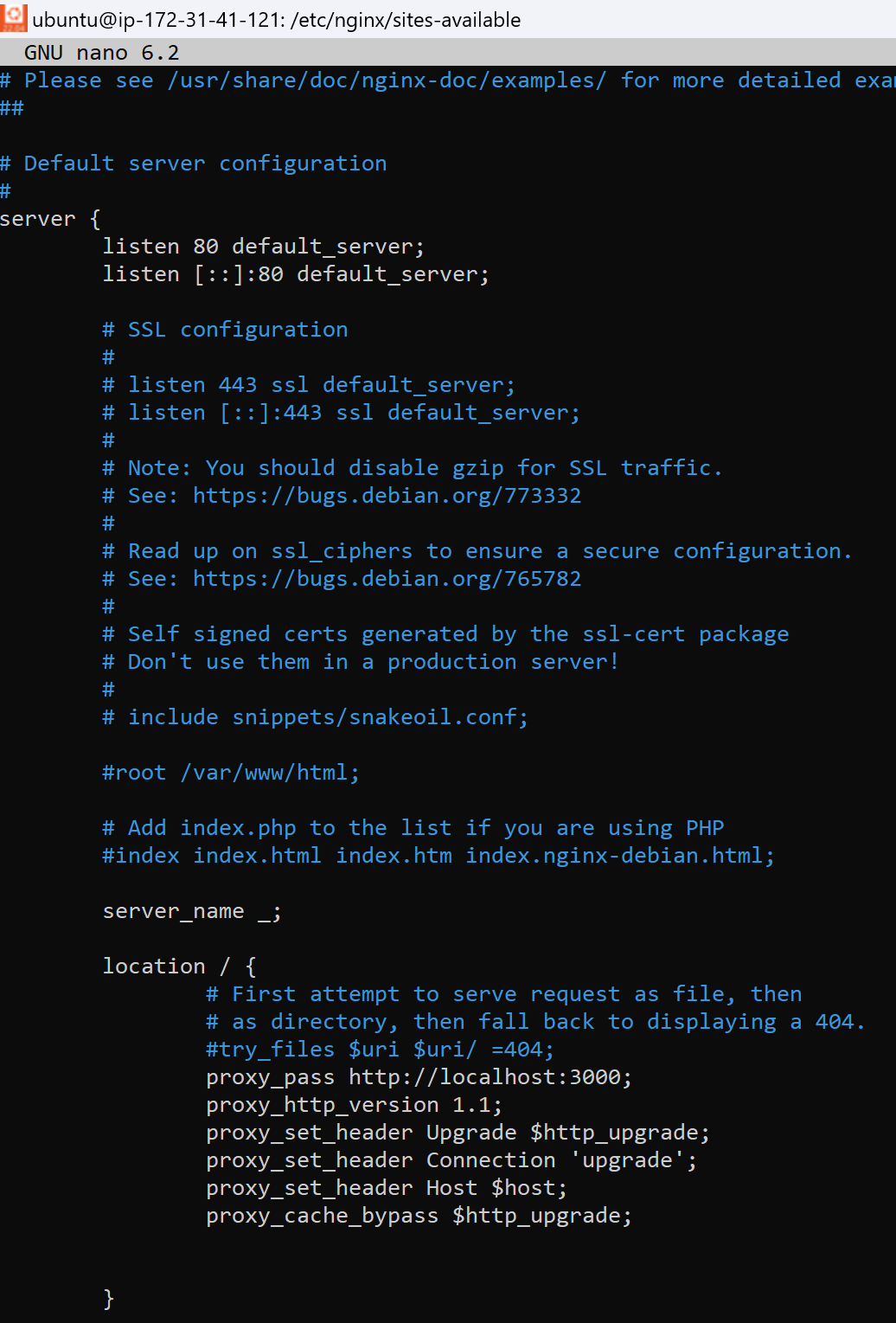


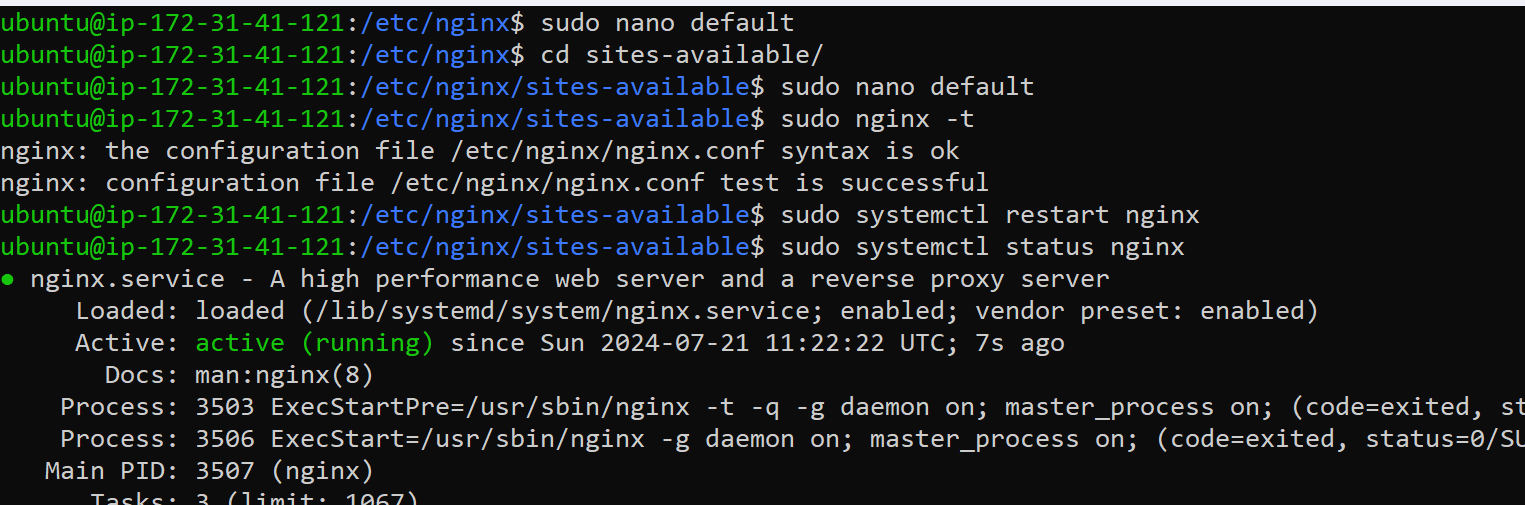
* Install nginx and make sure the service is running successfully.



* Set up a reverse proxy for nginx with below configuration:

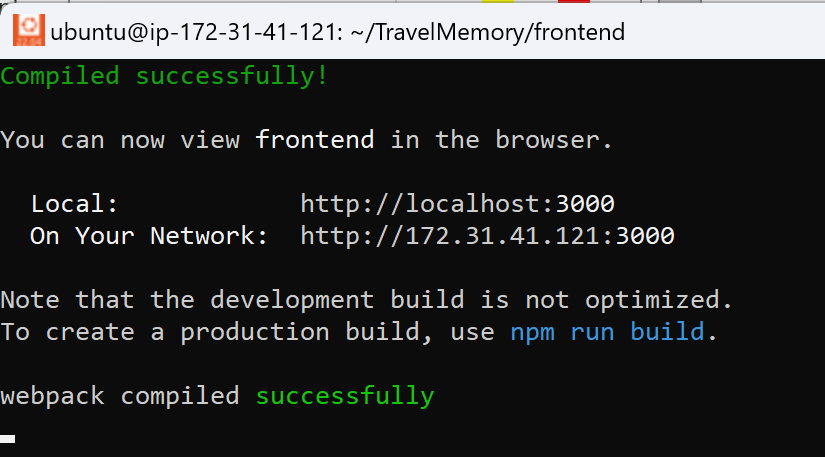


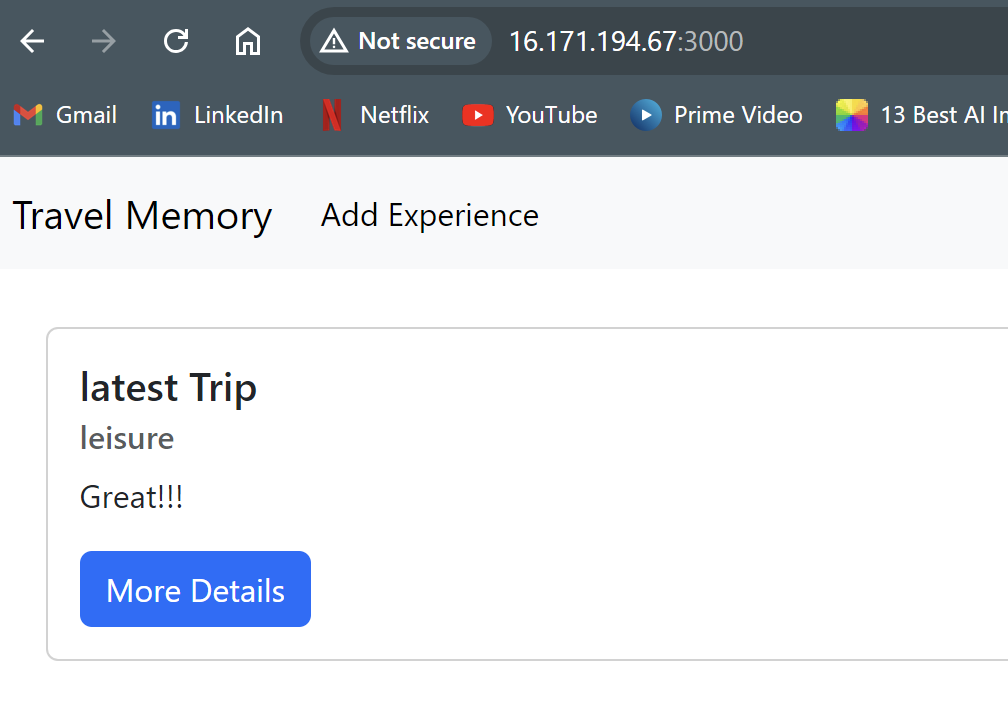




* Install frontend server using command “npm install”

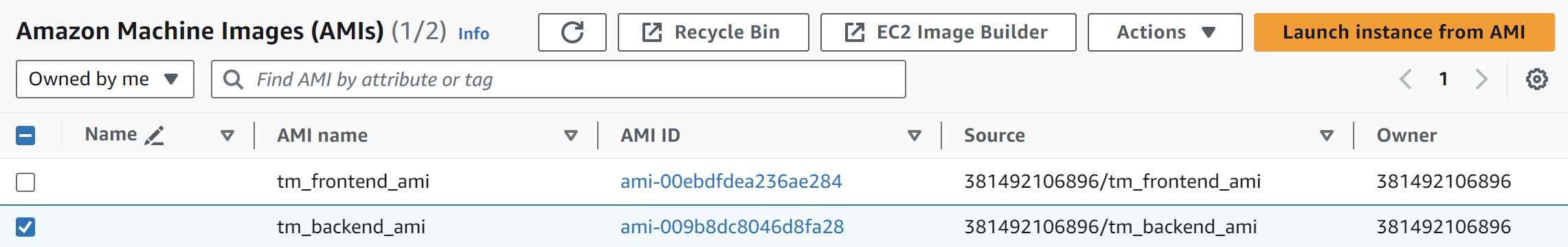
Start the frontend server with command “npm start”. This will start the frontend server at port no -**3000**

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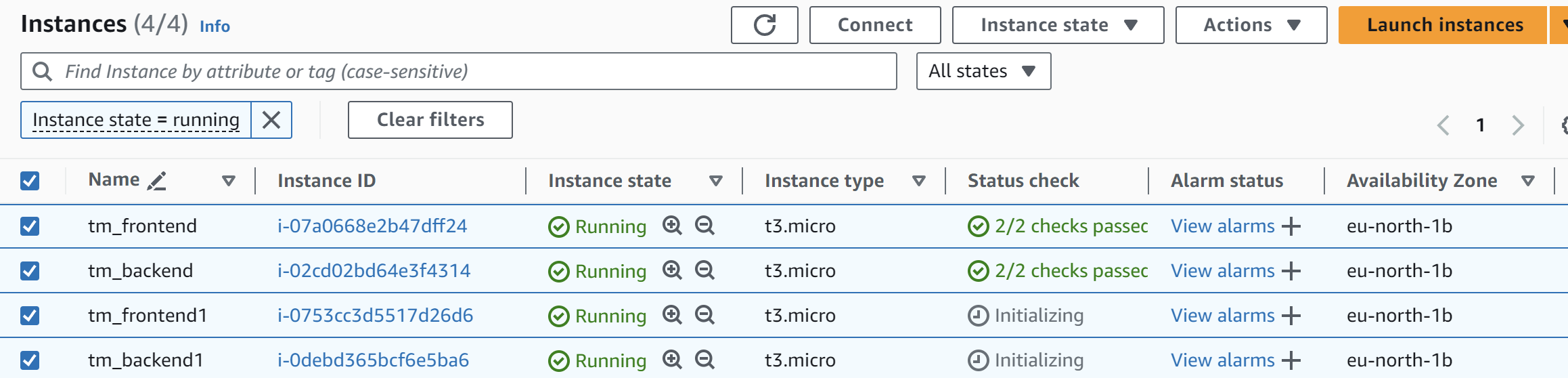
**Step3:**

* Create two AMI images from above instances.



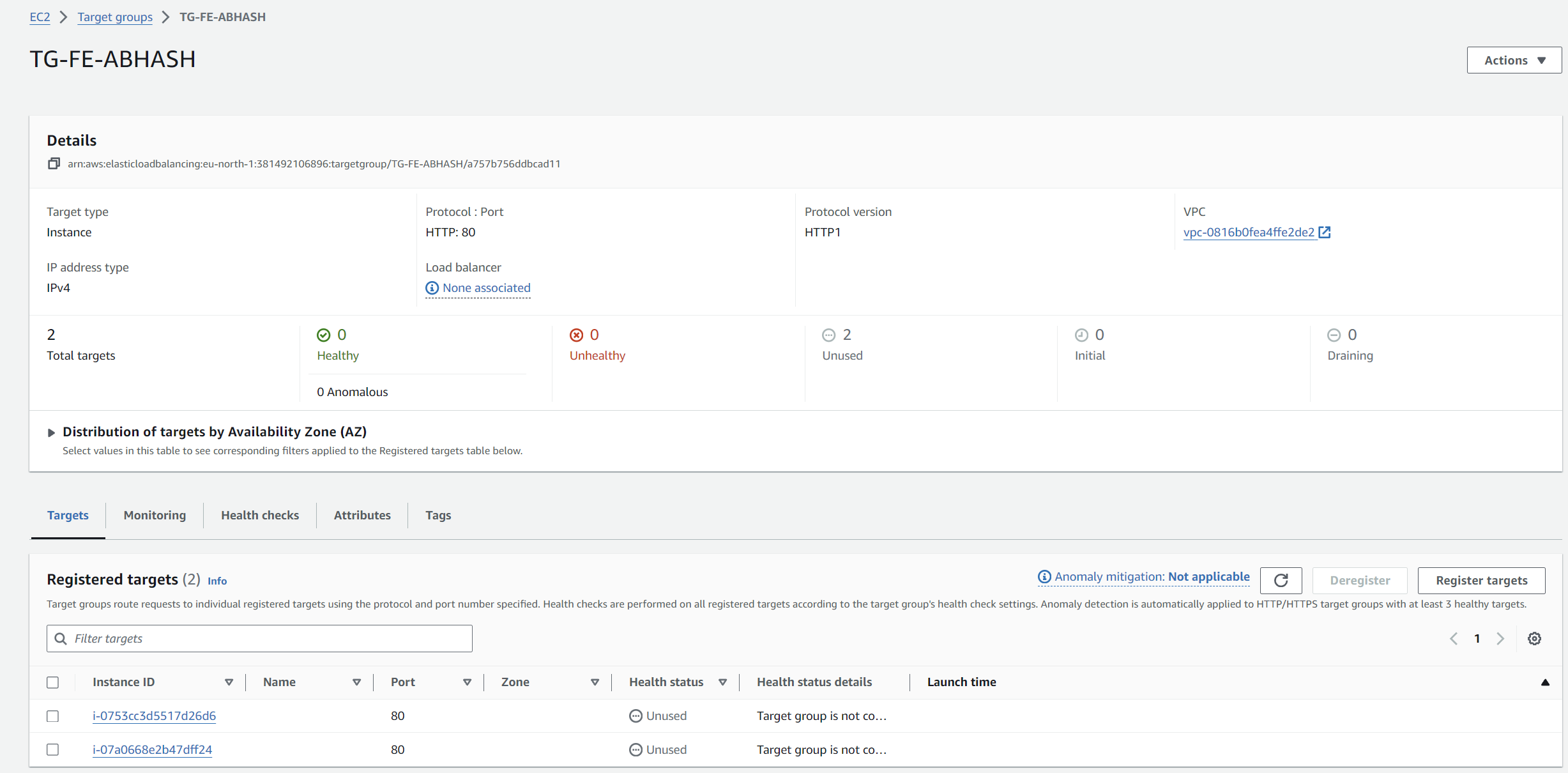
**Step4:**

* Create a set of backend and frontend instances (tm\_backend1 and tm\_frontend1) using the same configuration as tm\_backend and tm\_frontend AMIs respectively.

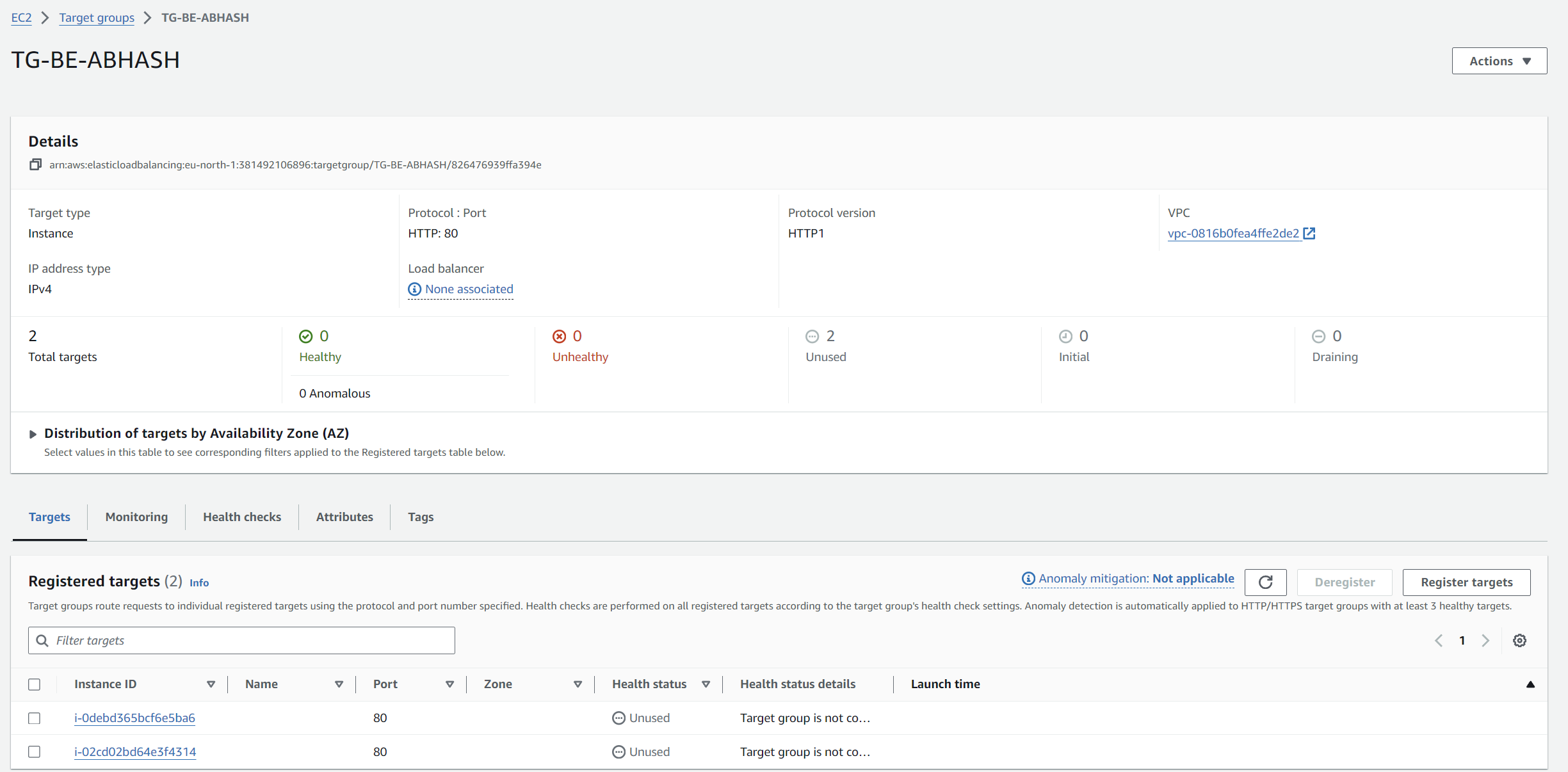


**Step5:**

* Create a target group “TG-FE-ABHASH” and register frontend instances as below:

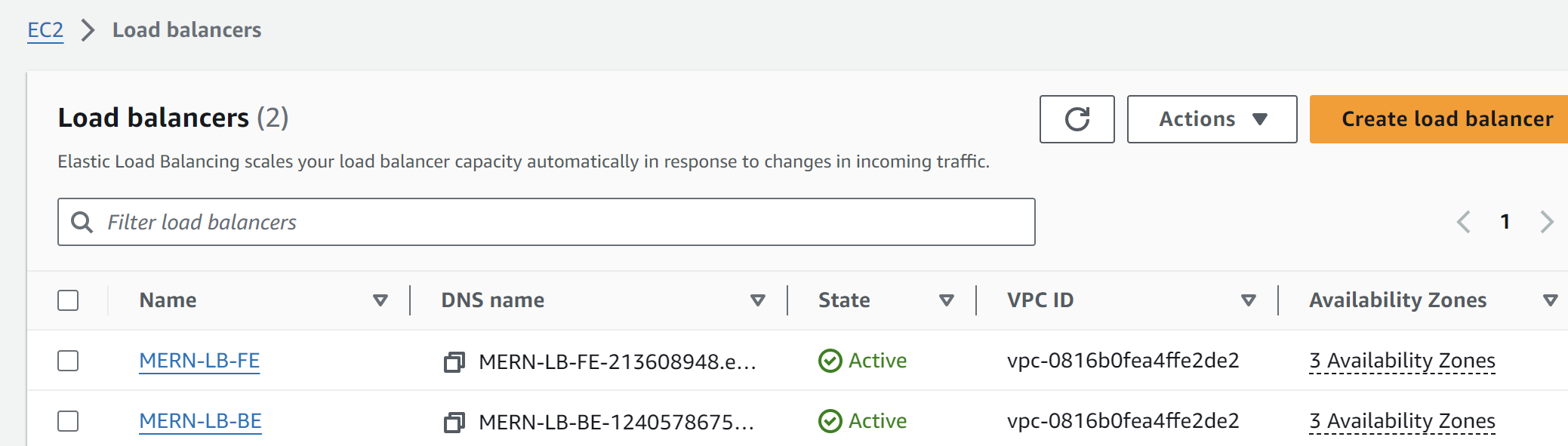


* Create a target group “TG-BE-ABHASH” and register backend instances as below:



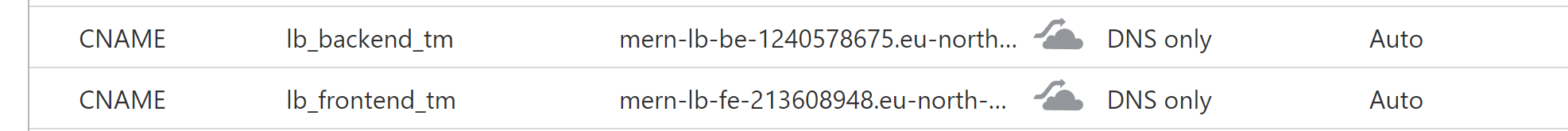
**Step6:**

* Create load balancer MERN\_LB\_FE and added listener “TG-FE-ABHASH”
* Create load balancer MERN\_LB\_BE and added listener “TG-BE-ABHASH”

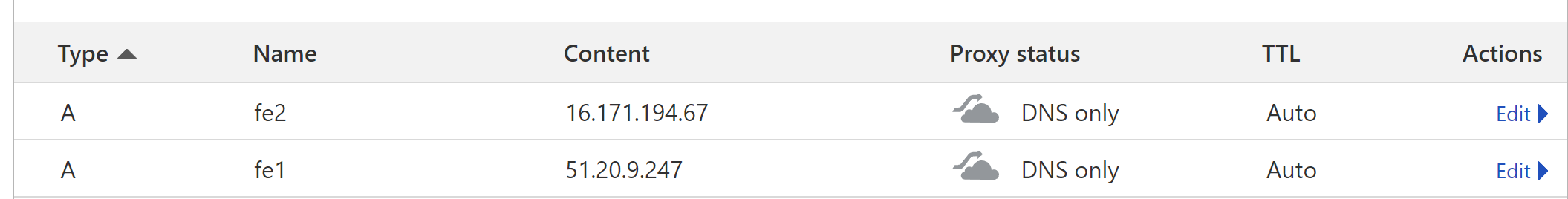


**Step7:**

* Domain Setup with Cloudflare:
  + Created a CNAME record pointing to the load balancer DNS.



* + Create two A records pointing to frontend instances DNS.



**Step8**:

* Send <http://lb_frontend_tm.abhashdas.xyz> via browser or any web client multiple times:

Load balancer will redirect the request to front end instances in round robin manner.

