**Travel memory application**

**Architecture Diagram:**

**Steps for deployment process:**

**Step 1.a:**Launch the instance (abhash\_backend1) and clone the repository using below command:

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

**Step 1.b:**

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

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

PORT=3001

**Step 1.c**

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

This will start the backend server at port no 3001

**Step 1.d**

Set up a reverse proxy using nginx with below configuration:

**Step 2.a:** Launch the frontend instance (abhash\_frontend1)

**Step 2.b** : Install frontend server using command “npm install”

**Step 2.c:** Update url.js with backend IP

**Step 2.d** Start the frontend server with command “npm start”

**This will start the frontend server at port no-3000**

**Step3**: Create two AMI images from above instances.

**Step4**: Create a set of backend and frontend instances (abhash\_backend2 and abhash\_frontend2)

**Step5**: Create a target group “TG-FE-ABHASH” and register frontend instances as below:

**Step4:** Created load balancer MERN\_LB\_ABHASH and added listener “TG-FE-ABHASH”

**Step5:** Domain Setup with Cloudflare:

1. Created a CNAME record pointing to the load balancer DNS.
2. Create two A records pointing to frontend instances DNS.

**Step6**: Send <http://abhashdas.xyz> via browser or any web client multiple times:

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

a) First it will send the request to first frontend server.

b) Second request will be send to the second frontend server.