

TravelMemory Deployment Project Documentation

Doc Version: 1.0.1

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Git URL: <https://github.com/kanakagarapati/TMassignment/tree/main>

Executed by: Kanaka Manoj Garapati

Note: All the Screen shots and Error logs and troubleshooting I have kept in this document to make more understanding and in Git repo I have kept high level execution steps.

Version History

Version	Date	Description
1.0.0	June 14, 2025	Initial project documentation.
1.0.1	June 15,2025	Update document format.

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1. Introduction

This document describes the deployment process of the TravelMemory MERN stack application on AWS infrastructure.

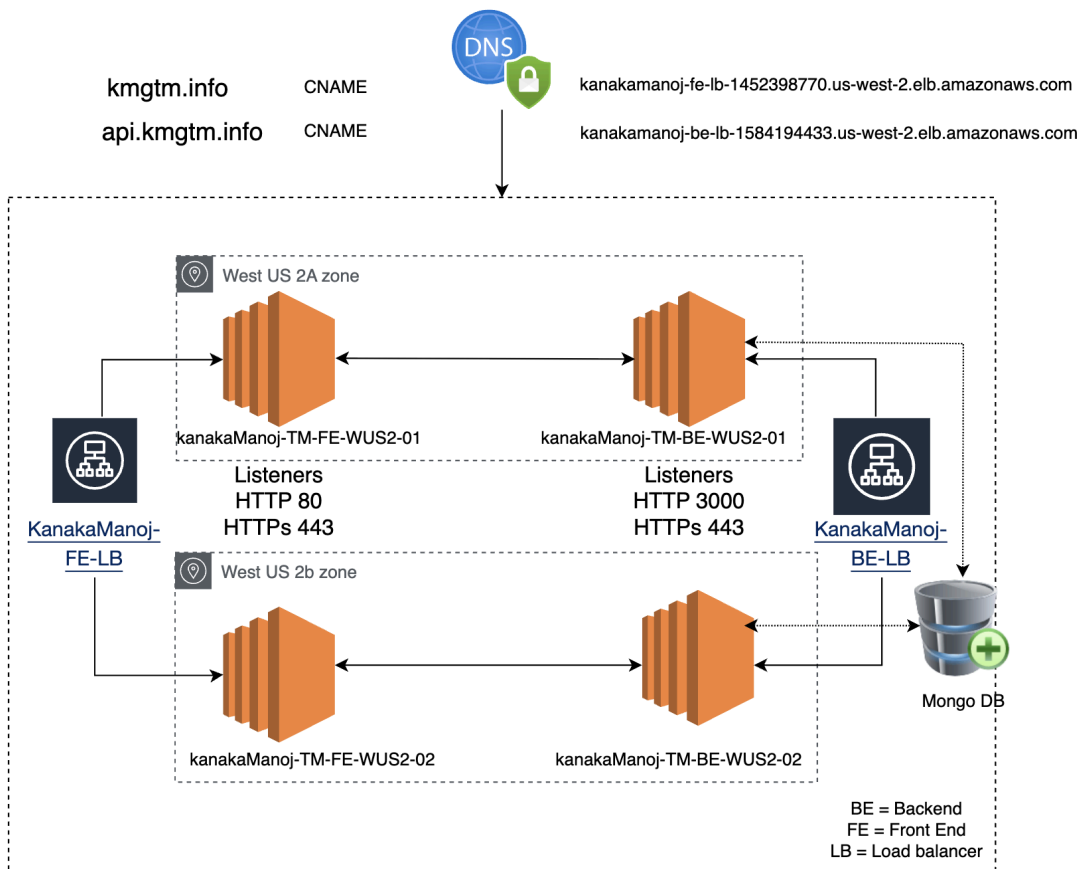
2. Project Overview

TravelMemory is a full-stack application using MongoDB, Express, React, and Node.js

And deployed this code in EC2 instances with load balancer, target group, and DNS setup

3. Architecture

The application is deployed across multiple EC2 instances with target Group, load balancers, and using custom domain.



4. Backend Setup

Steps to deploy the backend on an EC2 instance.

Step 1: Create EC2 Instance for Backend

Created EC2 instance for backend with name `KanakaManoj-TM-BE-WUS2-01`

Backend

aws Search [Option+S] United States (Oregon) garapati.manoj@gmail.com @ 9750-5002-4946

EC2 > Instances > Launch an instance

Launch an instance Info

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags Info

Name

 [Add additional tags](#)

Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Recents | My AMIs | **Quick Start**

Amazon Linux

macOS

Ubuntu

Windows

Red Hat

SUSE Linux

Debian

[Browse more AMIs](#)
Including AMIs from AWS, Marketplace and the Community

Summary

Number of instances Info

Software Image (AMI)
Canonical, Ubuntu, 24.04, amd6...[read more](#)
ami-05f991c49d264708f

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where t2.micro isn't available) when used with free tier AMIs, 750 hours per month of

[Cancel](#) [Launch instance](#) [Preview code](#)

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EC2 > Instances > Launch an instance

Amazon Machine Image (AMI)

Ubuntu Server 24.04 LTS (HVM), SSD Volume Type Free tier eligible

ami-05f991c49d264708f (64-bit (x86)) / ami-0836fd4a40b4f6ec (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs

Description

Ubuntu Server 24.04 LTS (HVM),EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

Canonical, Ubuntu, 24.04, amd64 noble image

Architecture	AMI ID	Publish Date	Username
64-bit (x86)	ami-05f991c49d264708f	2025-06-10	ubuntu Verified provider

Instance type Info [Get advice](#)

Instance type

t2.micro Free tier eligible

Family: t2 1 vCPU 1 GiB Memory Current generation: true

On-Demand Linux base pricing: 0.0116 USD per Hour

On-Demand SUSE base pricing: 0.0116 USD per Hour

On-Demand Windows base pricing: 0.0162 USD per Hour

On-Demand RHEL base pricing: 0.026 USD per Hour

On-Demand Ubuntu Pro base pricing: 0.0134 USD per Hour

[Additional costs apply for AMIs with pre-installed software](#)

All generations [Compare instance types](#)

Summary

Number of instances Info

Canonical, Ubuntu, 24.04, amd6...[read more](#)
ami-05f991c49d264708f

Virtual server type (instance type)
t2.micro

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1 volume(s) - 8 GiB

Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where t2.micro isn't available) when used with free tier AMIs, 750 hours per month of public IPv4 address usage, 30 GiB of EBS

[Cancel](#) [Launch instance](#) [Preview code](#)

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EC2 > Instances > Launch an instance

No preference ↕ [Create new subnet](#)

Auto-assign public IP [Info](#)
 Enable ↕

Additional charges apply when outside of free tier allowance

Firewall (security groups) [Info](#)
 A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group Select existing security group

Security group name - *required*
 kanaka-BE-launch-wizard-96

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and _-./()#,@!+=&:[]\$*

Description - *required* [Info](#)
 launch-wizard-96 created 2025-06-13T15:09:04.502Z

Inbound Security Group Rules

▼ Security group rule 1 (TCP, 22, 0.0.0.0/0)

Type	Protocol	Port range	Source type	Source	Description - optional
ssh	TCP	22	Anywhere	0.0.0.0/0	e.g. SSH for admin desktop

[Remove](#)

▼ Summary

Number of instances [Info](#)
1

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where t2.micro isn't available) when used with free tier AMIs, 750 hours per month of public IPv4 address usage, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

[Cancel](#) [Launch instance](#) [Preview code](#)

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EC2 > Instances > Launch an instance

Type	Protocol	Port range	Source type	Source	Description - optional
HTTPS	TCP	443	Anywhere	0.0.0.0/0	e.g. SSH for admin desktop
HTTP	TCP	80	Anywhere	0.0.0.0/0	e.g. SSH for admin desktop

▼ Security group rule 3 (TCP, 80, 0.0.0.0/0) [Remove](#)

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

[Add security group rule](#)

▼ Summary

Number of instances [Info](#)
1

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where t2.micro isn't available) when used with free tier AMIs, 750 hours per month of public IPv4 address usage, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

[Cancel](#) [Launch instance](#) [Preview code](#)

▼ Configure storage [Info](#) [Advanced](#)

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EC2 > Instances > Launch an instance

Success
Successfully initiated launch of instance (i-09428486eef06a9e6)

▶ Launch log

Next Steps
What would you like to do next with this instance, for example "create alarm" or "create backup" < 1 2 3 4 5 6 >

Create billing and free tier usage alerts

To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.

[Create billing alerts](#)

Connect to your instance

Once your instance is running, log into it from your local computer.

[Connect to instance](#)

[Learn more](#)

Connect an RDS database

Configure the connection between an EC2 instance and a database to allow traffic flow between them.

[Connect an RDS database](#)

[Create a new RDS database](#)

[Learn more](#)

Create EBS snapshot policy

Create a policy that automates the creation, retention, and deletion of EBS snapshots

[Create EBS snapshot policy](#)

Manage detailed monitoring

Enable or disable detailed monitoring for the instance. If you enable detailed monitoring...

Create Load Balancer

Create an application, network gateway or classic Elastic Load Balancing...

Create AWS budget

AWS Budgets allows you to create budgets, forecast spend, and take action on your costs.

Manage CloudWatch alarms

Create or update Amazon CloudWatch alarms for the instance.

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Instances (1/1) Info Last updated less than a minute ago [Connect](#) [Instance state](#) [Actions](#) [Launch instances](#)

Find Instance by attribute or tag (case-sensitive) All states

Instance ID = i-09428486eef06a9e6 [Clear filters](#)

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Avail
<input checked="" type="checkbox"/>	kanakaManoj-TM-BE-WUS2-01	i-09428486eef06a9e6	Running	t2.micro	Initializing	View alarms	us-w

i-09428486eef06a9e6 (kanakaManoj-TM-BE-WUS2-01)

[Details](#) [Status and alarms](#) [Monitoring](#) [Security](#) [Networking](#) [Storage](#) [Tags](#)

▼ Instance summary Info

<p>Instance ID</p> <p>i-09428486eef06a9e6</p>	<p>Public IPv4 address</p> <p>35.93.194.42 open address</p>	<p>Private IPv4 addresses</p> <p>172.31.38.147</p>
<p>IPv6 address</p> <p>-</p>	<p>Instance state</p> <p>Running</p>	<p>Public DNS</p> <p>ec2-35-93-194-42.us-west-2.compute.amazonaws.com open address</p>
<p>Hostname type</p> <p>IP name: ip-172-31-38-147.us-west-2.compute.internal</p>	<p>Private IP DNS name (IPv4 only)</p> <p>ip-172-31-38-147.us-west-2.compute.internal</p>	

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- EC2
- Dashboard
- EC2 Global View
- Events
- ▼ Instances
 - Instance Types
 - Launch Templates
 - Spot Requests
 - Savings Plans
 - Reserved Instances
 - Dedicated Hosts
 - Capacity Reservations
- ▼ Images
 - AMIs
 - AMI Catalog
- ▼ Elastic Block Store
 - Volumes
 - Snapshots
 - Lifecycle Manager
- ▼ Network & Security

Instance summary for i-09428486eef06a9e6 (kanakaManoj-TM-BE-WUS2-01) [Info](#)

[Refresh](#) [Connect](#) [Instance state](#) [Actions](#)

Updated less than a minute ago

Instance ID
i-09428486eef06a9e6

IPv6 address
-

Hostname type
IP name: ip-172-31-38-147.us-west-2.compute.internal

Answer private resource DNS name
IPv4 (A)

Auto-assigned IP address
35.93.194.42 [Public IP]

IAM Role
-

IMDSv2
Required

Public IPv4 address
35.93.194.42 | [open address](#)

Instance state
Running

Private IP DNS name (IPv4 only)
ip-172-31-38-147.us-west-2.compute.internal

Instance type
t2.micro

VPC ID
vpc-0321f38a7b594180d (default)

Subnet ID
subnet-06bd72b2e4cb41d10 (private-subnet)

Instance ARN
arn:aws:ec2:us-west-2:975050024946:instance/i-094

Private IPv4 addresses
172.31.38.147

Public DNS
ec2-35-93-194-42.us-west-2.compute.amazonaws.com | [open address](#)

Elastic IP addresses
-

AWS Compute Optimizer finding
User: arn:aws:iam::975050024946:user/garapati.manoj@gmail.com is not authorized to perform: compute-optimizer:GetEnrollmentStatus on resource: * because no identity-based policy allows the compute-optimizer:GetEnrollmentStatus action
[Retry](#)

Auto Scaling Group name
-

Managed
false

Connect Info

Connect to an instance using the browser-based client.

EC2 Instance Connect | Session Manager | SSH client | EC2 serial console

Instance ID

i-09428486eef06a9e6 (kanakaManoj-TM-BE-WUS2-01)

Connect using a Public IP

Connect using a public IPv4 or IPv6 address

Connect using a Private IP

Connect using a private IP address and a VPC endpoint

Public IPv4 address

35.93.194.42

IPv6 address

-

Username

Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, ubuntu.

ubuntu

Note: In most cases, the default username, ubuntu, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

Cancel

Connect

```
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/pro

System information as of Fri Jun 13 15:19:47 UTC 2025

System load: 0.16 Processes: 106
Usage of /: 25.3% of 6.71GB Users logged in: 0
Memory usage: 20% IPv4 address for enX0: 172.31.38.147
Swap usage: 0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-38-147:~$
```

i-09428486eef06a9e6 (kanakaManoj-TM-BE-WUS2-01)

PublicIPs: 35.93.194.42 PrivateIPs: 172.31.38.147

sudo apt update

```
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
```

```
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
```

```
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
```

```
ubuntu@ip-172-31-38-147:~$ sudo apt update
```

i-09428486eef06a9e6 (kanakaManoj-TM-BE-WUS2-01)

PublicIPs: 35.93.194.42 PrivateIPs: 172.31.38.147

```
aws [Option+S] United States (Oregon) garapati.manoj@gmail.com @ 9750-5002-4946
Get:22 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [21.7 kB]
Get:23 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse Translation-en [4788 B]
Get:24 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [940 B]
Get:25 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n-f Metadata [592 B]
Get:26 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 Packages [39.2 kB]
Get:27 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-backports/main Translation-en [8676 B]
Get:28 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [7084 B]
Get:29 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 c-n-f Metadata [272 B]
Get:30 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Packages [27.1 kB]
Get:31 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-backports/universe Translation-en [16.5 kB]
Get:32 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [16.4 kB]
Get:33 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 c-n-f Metadata [1304 B]
Get:34 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [216 B]
Get:35 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 c-n-f Metadata [116 B]
Get:36 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]
Get:37 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:38 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [21.6 kB]
Get:39 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [849 kB]
Get:40 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [187 kB]
Get:41 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.2 kB]
Get:42 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [17.0 kB]
Get:43 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]
Get:44 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [17.7 kB]
Get:45 http://security.ubuntu.com/ubuntu noble-security/multiverse Translation-en [3792 B]
Get:46 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [212 B]
Get:47 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [380 B]
Fetched 31.4 MB in 6s (5268 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
ubuntu@ip-172-31-38-147:~$
```

i-09428486eef06a9e6 (kanakaManoj-TM-BE-WUS2-01)

PublicIPs: 35.93.194.42 PrivateIPs: 172.31.38.147

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

```
Get:40 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [187 kB]
Get:41 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.2 kB]
Get:42 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [17.0 kB]
Get:43 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]
Get:44 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [17.7 kB]
Get:45 http://security.ubuntu.com/ubuntu noble-security/multiverse Translation-en [3792 B]
Get:46 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [212 B]
Get:47 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [380 B]
Fetched 31.4 MB in 6s (5268 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
ubuntu@ip-172-31-38-147:~$ sudo git clone https://github.com/UnpredictablePrashant/TravelMemory.git
```

i-09428486eef06a9e6 (kanakaManoj-TM-BE-WUS2-01)

PublicIPs: 35.93.194.42 PrivateIPs: 172.31.38.147

```
Get:43 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]
Get:44 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [17.7 kB]
Get:45 http://security.ubuntu.com/ubuntu noble-security/multiverse Translation-en [3792 B]
Get:46 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [212 B]
Get:47 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [380 B]
Fetched 31.4 MB in 6s (5268 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
ubuntu@ip-172-31-38-147:~$ sudo git clone https://github.com/UnpredictablePrashant/TravelMemory.git
Cloning into 'TravelMemory'...
remote: Enumerating objects: 119, done.
remote: Counting objects: 100% (69/69), done.
remote: Compressing objects: 100% (40/40), done.
remote: Total 119 (delta 33), reused 29 (delta 29), pack-reused 50 (from 1)
Receiving objects: 100% (119/119), 198.68 KiB | 3.26 MiB/s, done.
Resolving deltas: 100% (40/40), done.
ubuntu@ip-172-31-38-147:~$
```

i-09428486eef06a9e6 (kanakaManoj-TM-BE-WUS2-01)

PublicIPs: 35.93.194.42 PrivateIPs: 172.31.38.147

```

ubuntu@ip-172-31-38-147:~$ ls
TravelMemory
ubuntu@ip-172-31-38-147:~$ cd TravelMemory
ubuntu@ip-172-31-38-147:~/TravelMemory$ ls
LICENSE README.md azure-pipelines.yml backend frontend
ubuntu@ip-172-31-38-147:~/TravelMemory$ cd backend
ubuntu@ip-172-31-38-147:~/TravelMemory/backend$ ls
conn.js controllers index.js models package-lock.json package.json routes
ubuntu@ip-172-31-38-147:~/TravelMemory/backend$ cat index.js
const express = require('express')
const cors = require('cors')
require('dotenv').config()

const app = express()
PORT = process.env.PORT
const conn = require('./conn')
app.use(express.json())
app.use(cors())

const tripRoutes = require('./routes/trip.routes')

app.use('/trip', tripRoutes) // http://localhost:3001/trip --> POST/GET/GET by ID

app.get('/hello', (req,res)=>{
  res.send('Hello World!')
})

app.listen(PORT, ()=>{

```

i-09428486eef06a9e6 (kanakaManoj-TM-BE-WUS2-01)

PublicIPs: 35.93.194.42 PrivateIPs: 172.31.38.147

```

Resolving deltas: 100% (40/40), done.
ubuntu@ip-172-31-38-147:~$ ls
TravelMemory
ubuntu@ip-172-31-38-147:~$ cd TravelMemory
ubuntu@ip-172-31-38-147:~/TravelMemory$ ls
LICENSE README.md azure-pipelines.yml backend frontend
ubuntu@ip-172-31-38-147:~/TravelMemory$ cd backend
ubuntu@ip-172-31-38-147:~/TravelMemory/backend$ ls
conn.js controllers index.js models package-lock.json package.json routes
ubuntu@ip-172-31-38-147:~/TravelMemory/backend$ cat index.js
const express = require('express')
const cors = require('cors')
require('dotenv').config()

const app = express()
PORT = process.env.PORT
const conn = require('./conn')
app.use(express.json())
app.use(cors())

const tripRoutes = require('./routes/trip.routes')

app.use('/trip', tripRoutes) // http://localhost:3001/trip --> POST/GET/GET by ID

app.get('/hello', (req,res)=>{
  res.send('Hello World!')
})

app.listen(PORT, ()=>{
  console.log(`Server started at http://localhost:${PORT}`)
})ubuntu@ip-172-31-38-147:~/TravelMemory/backend$

```

i-09428486eef06a9e6 (kanakaManoj-TM-BE-WUS2-01)

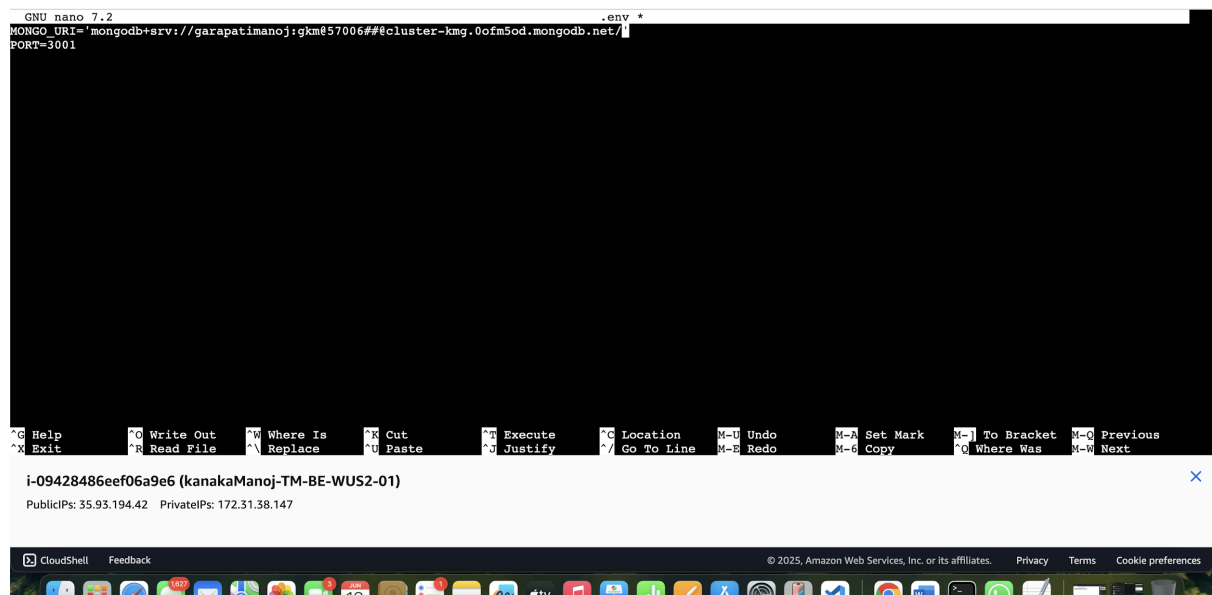
PublicIPs: 35.93.194.42 PrivateIPs: 172.31.38.147

sudo nano .env

```
app.listen(PORT, () => {
  console.log(`Server started at http://localhost:${PORT}`)
}) ubuntu@ip-172-31-38-147:~/TravelMemory/backend$ sudo nano .env
ubuntu@ip-172-31-38-147:~/TravelMemory/backend$
```

i-09428486eef06a9e6 (kanakaManoj-TM-BE-WUS2-01)

PublicIPs: 35.93.194.42 PrivateIPs: 172.31.38.147



sudo apt install nodejs -y

```
ubuntu@ip-172-31-38-147:~/TravelMemory/backend$ sudo apt install nodejs -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libcares2 libnode109 node-acorn node-busboy node-cjs-module-lexer node-undici node-xtend nodejs-doc
Suggested packages:
  npm
The following NEW packages will be installed:
  libcares2 libnode109 node-acorn node-busboy node-cjs-module-lexer node-undici node-xtend nodejs nodejs-doc
0 upgraded, 9 newly installed, 0 to remove and 0 not upgraded.
Need to get 16.1 MB of archives.
After this operation, 70.4 MB of additional disk space will be used.
Get:1 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble/main amd64 libcares2 amd64 1.27.0-1.0ubuntu1 [73.7 kB]
Get:2 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 node-xtend all 4.0.2-3 [3902 B]
Get:3 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 nodejs amd64 18.19.1+dfsg-6ubuntu5 [306 kB]
Get:4 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 node-acorn all 8.8.1+ds+cs25.17.7-2 [115 kB]
Get:5 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 node-cjs-module-lexer all 1.2.3+dfsg-1 [32.1 kB]
Get:6 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 node-busboy all 1.6.0+cs2.6.0-2 [17.3 kB]
Get:7 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 node-undici all 5.26.3+dfsg1+-cs23.10.12-2 [325 kB]
Get:8 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 libnode109 amd64 18.19.1+dfsg-6ubuntu5 [11.6 MB]
Get:9 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 nodejs-doc all 18.19.1+dfsg-6ubuntu5 [3552 kB]
```

i-09428486eef06a9e6 (kanakaManoj-TM-BE-WUS2-01)

PublicIPs: 35.93.194.42 PrivateIPs: 172.31.38.147

```
Unpacking node-undici (5.26.3+dfsg1+~cs23.10.12-2) ...
Selecting previously unselected package libnode109:amd64.
Preparing to unpack .../7-libnode109_18.19.1+dfsg-6ubuntu5_amd64.deb ...
Unpacking libnode109:amd64 (18.19.1+dfsg-6ubuntu5) ...
Selecting previously unselected package nodejs-doc.
Preparing to unpack .../8-nodejs-doc_18.19.1+dfsg-6ubuntu5_all.deb ...
Unpacking nodejs-doc (18.19.1+dfsg-6ubuntu5) ...
Setting up node-cjs-module-lexer (1.2.3+dfsg-1) ...
Setting up libeares2:amd64 (1.27.0-1.0ubuntu1) ...
Setting up nodejs-doc (18.19.1+dfsg-6ubuntu5) ...
Setting up node-xtend (4.0.2-3) ...
Setting up node-busboy (1.6.0+~cs2.6.0-2) ...
Setting up node-undici (5.26.3+dfsg1+~cs23.10.12-2) ...
Setting up node-acorn (8.8.1+ds+~cs25.17.7-2) ...
Setting up libnode109:amd64 (18.19.1+dfsg-6ubuntu5) ...
Setting up nodejs (18.19.1+dfsg-6ubuntu5) ...
update-alternatives: using /usr/bin/nodejs to provide /usr/bin/js (js) in auto mode
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for libc-bin (2.39-0ubuntu8.4) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-38-147:~/TravelMemory/backend$
```

i-09428486eef06a9e6 (kanakaManoj-TM-BE-WUS2-01)
PublicIPs: 35.93.194.42 PrivateIPs: 172.31.38.147

node -v

```
Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-38-147:~/TravelMemory/backend$ node -v
v18.19.1
ubuntu@ip-172-31-38-147:~/TravelMemory/backend$
```

i-09428486eef06a9e6 (kanakaManoj-TM-BE-WUS2-01)
PublicIPs: 35.93.194.42 PrivateIPs: 172.31.38.147

```
sudo apt install npm -y
```

```
No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-38-147:~/TravelMemory/backend$ node -v
v18.19.1
ubuntu@ip-172-31-38-147:~/TravelMemory/backend$ sudo apt install npm -y
```

i-09428486eef06a9e6 (kanakaManoj-TM-BE-WUS2-01)

PublicIPs: 35.93.194.42 PrivateIPs: 172.31.38.147

```
Setting up libx11-2:amd64 (2.3.6-1build1) ...
Setting up libgd3:amd64 (2.3.3-9ubuntu5) ...
Setting up x11-utils (7.7+6build2) ...
Setting up libc-devtools (2.39-0ubuntu8.4) ...
Processing triggers for libc-bin (2.39-0ubuntu8.4) ...
Scanning processes...
Scanning linux images...
```

```
Running kernel seems to be up-to-date.
```

```
No services need to be restarted.
```

```
No containers need to be restarted.
```

```
No user sessions are running outdated binaries.
```

```
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-38-147:~/TravelMemory/backend$
```

i-09428486eef06a9e6 (kanakaManoj-TM-BE-WUS2-01)

PublicIPs: 35.93.194.42 PrivateIPs: 172.31.38.147

```
npm -v
```

```
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-38-147:~/TravelMemory/backend$ npm -v
9.2.0
ubuntu@ip-172-31-38-147:~/TravelMemory/backend$
```

i-09428486eef06a9e6 (kanakaManoj-TM-BE-WUS2-01)

PublicIPs: 35.93.194.42 PrivateIPs: 172.31.38.147

sudo npm install

```
No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-38-147:~/TravelMemory/backend$ npm -v
9.2.0
ubuntu@ip-172-31-38-147:~/TravelMemory/backend$ ls
conn.js controllers index.js models package-lock.json package.json routes
ubuntu@ip-172-31-38-147:~/TravelMemory/backend$ sudo npm install
```

i-09428486eef06a9e6 (kanakaManoj-TM-BE-WUS2-01)

PublicIPs: 35.93.194.42 PrivateIPs: 172.31.38.147

```
ubuntu@ip-172-31-38-147:~/TravelMemory/backend$ ls
conn.js controllers index.js models package-lock.json package.json routes
ubuntu@ip-172-31-38-147:~/TravelMemory/backend$ sudo npm install
```

```
added 117 packages, and audited 118 packages in 6s

13 packages are looking for funding
  run `npm fund` for details

15 vulnerabilities (4 low, 1 moderate, 9 high, 1 critical)

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.
ubuntu@ip-172-31-38-147:~/TravelMemory/backend$
```

i-09428486eef06a9e6 (kanakaManoj-TM-BE-WUS2-01)

PublicIPs: 35.93.194.42 PrivateIPs: 172.31.38.147

```
15 vulnerabilities (4 low, 1 moderate, 9 high, 1 critical)

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.
ubuntu@ip-172-31-38-147:~/TravelMemory/backend$ ls
conn.js controllers index.js models node_modules package-lock.json package.json routes
ubuntu@ip-172-31-38-147:~/TravelMemory/backend$
```

i-09428486eef06a9e6 (kanakaManoj-TM-BE-WUS2-01)

PublicIPs: 35.93.194.42 PrivateIPs: 172.31.38.147

cd node_modules

```
Run `npm audit` for details.
ubuntu@ip-172-31-38-147:~/TravelMemory/backend$ ls
conn.js controllers index.js models node_modules package-lock.json package.json routes
ubuntu@ip-172-31-38-147:~/TravelMemory/backend$ cd node_modules
ubuntu@ip-172-31-38-147:~/TravelMemory/backend/node_modules$ ls
@types          content-type    fresh           is-glob         ms              raw-body        supports-color
abbrev          cookie          function-bind  is-number      negotiator      readdirp        to-regexp-range
accepts         cookie-signature get-intrinsic  kareem         nodemon        safe-buffer     toidentifier
anymatch        cors            glob-parent    media-typers   nopt            safer-buffer    touch
array-flatten   debug           has            memory-pager   normalize-path  saslprep       tr46
balanced-match  depd           has-flag      merge-descriptors object-assign   semver         type-is
binary-extensions destroy        has-proto     methods        object-inspect  send           undefsafe
body-parser     dotenv         has-symbols   mime           on-finished    serve-static    unpipe
brace-expansion ee-first       http-errors   mime-db        parseurl        setprototypeof  utils-merge
braces          encodeurl      iconv-lite    mime-types     path-to-regexp  side-channel    vary
bson            escape-html    ignore-by-default minimatch       picomatch      sift            webidl-conversions
bytes           etag           inherits      mongodb        proxy-addr     simple-update-notifier whatwg-url
call-bind       express        ip            mongodb-connection-string-url pstree.remy    smart-buffer
chokidar        fill-range     ipaddr.js     mongoose       punycode        socks
concat-map      finalhandler   is-binary-path mpath          qs              sparse-bitfield
content-disposition forwarded       is-extendglob mquery         range-parser    statuses
ubuntu@ip-172-31-38-147:~/TravelMemory/backend/node_modules$
```

i-09428486eef06a9e6 (kanakaManoj-TM-BE-WUS2-01)

PublicIPs: 35.93.194.42 PrivateIPs: 172.31.38.147

sudo node index.js

```
content-disposition forwarded       is-extendglob mquery         range-parser    statuses
ubuntu@ip-172-31-38-147:~/TravelMemory/backend/node_modules$ ls
@types          content-type    fresh           is-glob         ms              raw-body        supports-color
abbrev          cookie          function-bind  is-number      negotiator      readdirp        to-regexp-range
accepts         cookie-signature get-intrinsic  kareem         nodemon        safe-buffer     toidentifier
anymatch        cors            glob-parent    media-typers   nopt            safer-buffer    touch
array-flatten   debug           has            memory-pager   normalize-path  saslprep       tr46
balanced-match  depd           has-flag      merge-descriptors object-assign   semver         type-is
binary-extensions destroy        has-proto     methods        object-inspect  send           undefsafe
body-parser     dotenv         has-symbols   mime           on-finished    serve-static    unpipe
brace-expansion ee-first       http-errors   mime-db        parseurl        setprototypeof  utils-merge
braces          encodeurl      iconv-lite    mime-types     path-to-regexp  side-channel    vary
bson            escape-html    ignore-by-default minimatch       picomatch      sift            webidl-conversions
bytes           etag           inherits      mongodb        proxy-addr     simple-update-notifier whatwg-url
call-bind       express        ip            mongodb-connection-string-url pstree.remy    smart-buffer
chokidar        fill-range     ipaddr.js     mongoose       punycode        socks
concat-map      finalhandler   is-binary-path mpath          qs              sparse-bitfield
content-disposition forwarded       is-extendglob mquery         range-parser    statuses
ubuntu@ip-172-31-38-147:~/TravelMemory/backend/node_modules$ sudo node index.js
```

i-09428486eef06a9e6 (kanakaManoj-TM-BE-WUS2-01)

PublicIPs: 35.93.194.42 PrivateIPs: 172.31.38.147

ubuntu@ip-172-31-38-123:~\$

```
Downloads -- ubuntu@ip-172-31-38-123: -- ssh -i kanakamanoj-gkm.pem ubuntu@44.245.174.1 -- 201x59
Hanuman chalisa 2.pdf
Hanuman chalisa eng and tel.pdf
Hero Vired
Hero Vired - Generative AI - 2025-202503290722202-001.zip
HeroVired.py
HousePrice_2025-03-29.xlsx
HousePrices.csv
IMG_8639.JPG
jre-8u452-windows-i86-iftw.exe
kanakamanojgarapati@RojaManu-MacBook-Air Downloads % ls -l kanakamanoj-gkm.pem
-rw-r--r--@ 1 kanakamanojgarapati staff 1678 3 May 16:28 kanakamanoj-gkm.pem
kanakamanojgarapati@RojaManu-MacBook-Air Downloads % ssh -i kanakamanoj-gkm.pem ec2-user@44.245.174.1
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@ WARNING: UNPROTECTED PRIVATE KEY FILE! @
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
Permissions 0644 for 'kanakamanoj-gkm.pem' are too open.
It is required that your private key files are NOT accessible by others.
This private key will be ignored.
Load key "kanakamanoj-gkm.pem": bad permissions
ec2-user@44.245.174.1: Permission denied (publickey).
kanakamanojgarapati@RojaManu-MacBook-Air Downloads % ssh -i kanakamanoj-gkm.pem ubuntu@44.245.174.1
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@ WARNING: UNPROTECTED PRIVATE KEY FILE! @
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
Permissions 0644 for 'kanakamanoj-gkm.pem' are too open.
It is required that your private key files are NOT accessible by others.
This private key will be ignored.
Load key "kanakamanoj-gkm.pem": bad permissions
ubuntu@44.245.174.1: Permission denied (publickey).
kanakamanojgarapati@RojaManu-MacBook-Air Downloads % chmod 400 kanakamanoj-gkm.pem
kanakamanojgarapati@RojaManu-MacBook-Air Downloads % ssh -i kanakamanoj-gkm.pem ubuntu@44.245.174.1
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.8.0-1029-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/pro

System information as of Fri Jun 13 17:06:16 UTC 2025

System load: 0.0      Processes:    106
Usage of /:  25.7% of 6.710B   Users logged in:  1
Memory usage: 21%      IPv4 address for enX8: 172.31.38.123
Swap usage:  6%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

Last login: Fri Jun 13 16:50:15 2025 from 18.237.140.163
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-38-123: $
```

sudo apt update

```
Downloads -- ubuntu@ip-172-31-38-123: ~/TravelMemory/backend -- ssh -i kanakamanoj-gkm.pem ubuntu@44.245.174.1 -- 201x59
ubuntu@ip-172-31-38-123: $ sudo apt update
Hit:1 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:3 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:4 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:5 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Packages [15.0 MB]
Get:6 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble/universe Translation-en [5982 kB]
Get:7 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Components [3871 kB]
Get:8 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [668 kB]
Get:9 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 c-n-f Metadata [381 kB]
Get:10 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [269 kB]
Get:11 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble/multiverse Translation-en [118 kB]
Get:12 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Components [35.9 kB]
Get:13 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 c-n-f Metadata [8328 B]
Get:14 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [1118 kB]
Get:15 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-updates/main Translation-en [238 kB]
Get:16 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [26.9 kB]
Get:17 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [1978 kB]
Get:18 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-updates/universe Translation-en [274 kB]
Get:19 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [376 kB]
Get:20 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [26.9 kB]
Get:21 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [212 B]
Get:22 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [21.7 kB]
Get:23 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse Translation-en [4788 B]
Get:24 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [948 B]
Get:25 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n-f Metadata [592 B]
Get:26 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 Packages [39.2 kB]
Get:27 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-backports/main Translation-en [8676 B]
Get:28 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [7076 B]
Get:29 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 c-n-f Metadata [272 B]
Get:30 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Packages [27.1 kB]
Get:31 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-backports/universe Translation-en [16.5 kB]
Get:32 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [16.4 kB]
Get:33 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 c-n-f Metadata [1304 B]
Get:34 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [216 B]
Get:35 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 c-n-f Metadata [116 B]
Get:36 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]
Get:37 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:38 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [21.5 kB]
Get:39 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [849 kB]
Get:40 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [187 kB]
Get:41 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.3 kB]
Get:42 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [17.8 kB]
Get:43 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]
Get:44 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [17.7 kB]
Get:45 http://security.ubuntu.com/ubuntu noble-security/multiverse Translation-en [3792 B]
Get:46 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [212 B]
Get:47 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [388 B]
Fetched 31.4 MB in 6s (5163 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
ubuntu@ip-172-31-38-123: $ sudo apt install nodejs -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libcares2 libnode109 node-acorn node-busboy node-cjs-module-lexer node-undici node-xtend nodejs-doc

```

sudo apt install nodejs -y

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

```
Unpacking nodejs-doc (18.19.1dfsg-ubuntu5) ...
Setting up node-cjs-module-lexer (1.2.3+dfsg-1) ...
Setting up libcres2:amd64 (1.27.0-1.0ubuntu1) ...
Setting up nodejs-doc (18.19.1dfsg-ubuntu5) ...
Setting up node-xtend (4.0.2-3) ...
Setting up node-busboy (1.6.0~cs2.6.0-2) ...
Setting up node-undici (5.26.3+dfsg1~cs28.10.12-2) ...
Setting up node-acorn (8.8.1+ds~cs25.17.7-2) ...
Setting up libnode109:amd64 (18.19.1dfsg-ubuntu5) ...
Setting up nodejs (18.19.1dfsg-ubuntu5) ...
update-alternatives: using /usr/bin/nodejs to provide /usr/bin/js (js) in auto mode
Processing triggers for man-db (2.12.0-4ubuntu2) ...
Processing triggers for libc-bin (2.39-0ubuntu8.4) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-38-123:~$ git clone https://github.com/UnpredictablePrashant/TravelMemory
Cloning into 'TravelMemory'...
remote: Enumerating objects: 119, done.
remote: Counting objects: 100% (69/69), done.
remote: Compressing objects: 100% (40/40), done.
remote: Total 119 (delta 38), reused 29 (delta 29), pack-reused 50 (from 1)
Receiving objects: 100% (119/119), 199.68 KiB | 4.14 MiB/s, done.
Resolving deltas: 100% (40/40), done.
ubuntu@ip-172-31-38-123:~$ ls
TravelMemory
ubuntu@ip-172-31-38-123:~$ cd TravelMemory
ubuntu@ip-172-31-38-123:~/TravelMemory$ ls
LICENSE  README.md  azure-pipelines.yml  backend  frontend
ubuntu@ip-172-31-38-123:~/TravelMemory$ cd backend
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ npm install
Command 'npm' not found, but can be installed with:
sudo apt install npm
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo apt install npm
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
```

ubuntu@ip-172-31-38-123:~\$ cd TravelMemory

ubuntu@ip-172-31-38-123:~/TravelMemory\$ ls

LICENSE README.md azure-pipelines.yml backend frontend

ubuntu@ip-172-31-38-123:~/TravelMemory\$ cd backend

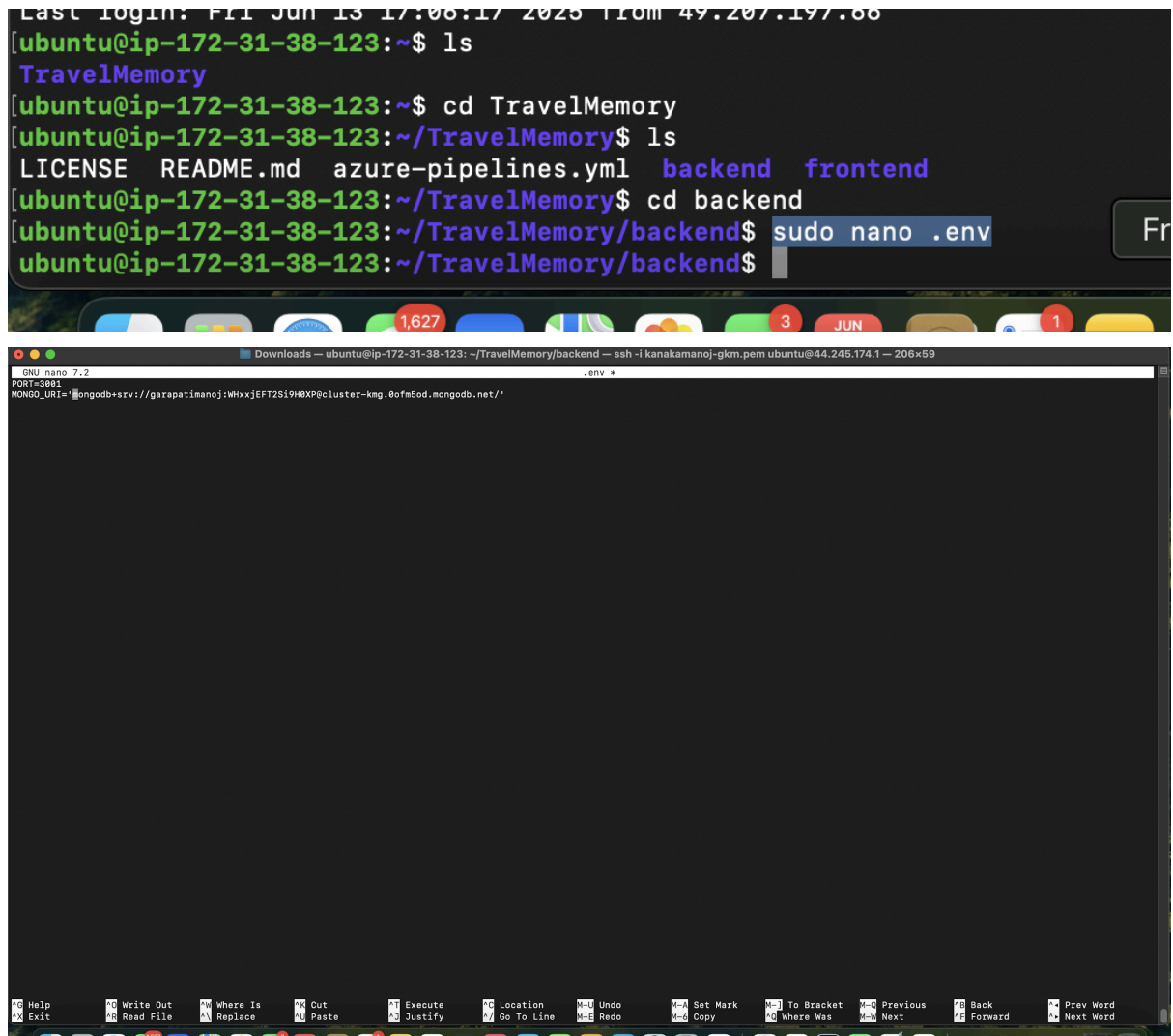
ubuntu@ip-172-31-38-123:~/TravelMemory/backend\$ npm install

Command 'npm' not found, but can be installed with:

sudo apt install npm

ubuntu@ip-172-31-38-123:~/TravelMemory/backend\$ sudo apt install npm

sudo nano .env



The image shows a terminal window with the following commands and output:

```
Last login: Fri Jun 13 17:06:17 2023 from 49.207.197.88
[ubuntu@ip-172-31-38-123:~$ ls
TravelMemory
[ubuntu@ip-172-31-38-123:~$ cd TravelMemory
[ubuntu@ip-172-31-38-123:~/TravelMemory$ ls
LICENSE  README.md  azure-pipelines.yml  backend  frontend
[ubuntu@ip-172-31-38-123:~/TravelMemory$ cd backend
[ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo nano .env
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$
```

The second screenshot shows the nano editor editing the .env file. The content of the file is:

```
PORT=3031
MONGO_URI='mongodb+srv://garapatimanoj:WxxjEFT2S19H0XP@cluster-kmg.0fm5od.mongodb.net/'
```

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo nano .env
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo amazon-linux-extras
install nginx1
sudo: amazon-linux-extras: command not found
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ pm2 start index.js --name
travel-backend
Command 'pm2' not found, did you mean:
  command 'gm2' from deb gm2 (4:13.2.0-2ubuntu1)
  command 'tpm2' from deb tpm2-tools (5.4-1)
  command 'pmw' from deb pmw (1:5.22-1)
  command 'pom2' from deb libpod-pom-perl (2.01-4)
  command 'wm2' from deb wm2 (4+svn20090216-4build1)
  command 'pm' from deb powerman (2.3.27-4)
  command 'pmc' from deb linuxptp (4.0-1)
  command 'pmg' from deb python3-pymatgen (2023.06.23+dfsg1-2build1)
  command 'pms' from deb pms (0.42-1.1)
```

```
Try: sudo apt install <deb name>
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ Read from remote host
44.245.174.1: Operation timed out
Connection to 44.245.174.1 closed.
client_loop: send disconnect: Broken pipe
kanakamanojgarapati@RojaManu-MacBook-Air Downloads % ssh -i
kanakamanoj-gkm.pem ubuntu@44.245.174.1
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.8.0-1029-aws x86_64)
```

```
* Documentation: https://help.ubuntu.com
* Management:   https://landscape.canonical.com
* Support:      https://ubuntu.com/pro
```

System information as of Fri Jun 13 17:41:46 UTC 2025

```
System load: 0.0          Processes:           113
Usage of /:  40.4% of 6.71GB Users logged in:      1
Memory usage: 28%        IPv4 address for enX0: 172.31.38.123
Swap usage:  0%
```

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See <https://ubuntu.com/esm> or run: `sudo pro status`

```
Last login: Fri Jun 13 17:30:55 2025 from 49.207.197.66
ubuntu@ip-172-31-38-123:~$ sudo apt install nginx -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  nginx-common
Suggested packages:
  fcgiwrap nginx-doc ssl-cert
The following NEW packages will be installed:
  nginx nginx-common
0 upgraded, 2 newly installed, 0 to remove and 0 not upgraded.
Need to get 551 kB of archives.
After this operation, 1596 kB of additional disk space will be used.
Get:1 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64
nginx-common all 1.24.0-2ubuntu7.3 [31.2 kB]
Get:2 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 nginx
amd64 1.24.0-2ubuntu7.3 [520 kB]
Fetched 551 kB in 0s (5824 kB/s)
Preconfiguring packages ...
```

Selecting previously unselected package nginx-common.
(Reading database ... 109281 files and directories currently installed.)
Preparing to unpack .../nginx-common_1.24.0-2ubuntu7.3_all.deb ...
Unpacking nginx-common (1.24.0-2ubuntu7.3) ...
Selecting previously unselected package nginx.
Preparing to unpack .../nginx_1.24.0-2ubuntu7.3_amd64.deb ...
Unpacking nginx (1.24.0-2ubuntu7.3) ...
Setting up nginx (1.24.0-2ubuntu7.3) ...
Setting up nginx-common (1.24.0-2ubuntu7.3) ...
Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service →
/usr/lib/systemd/system/nginx.service.
Processing triggers for ufw (0.36.2-6) ...
Processing triggers for man-db (2.12.0-4build2) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.

```
ubuntu@ip-172-31-38-123:~$ sudo systemctl enable nginx
Synchronizing state of nginx.service with SysV service script with
/usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable nginx
ubuntu@ip-172-31-38-123:~$ sudo systemctl start nginx
ubuntu@ip-172-31-38-123:~$ sudo nano /etc/nginx/sites-available/travelmemory
ubuntu@ip-172-31-38-123:~$ sudo ln -s /etc/nginx/sites-available/travelmemory
/etc/nginx/sites-enabled/
ubuntu@ip-172-31-38-123:~$ sudo rm /etc/nginx/sites-enabled/default
ubuntu@ip-172-31-38-123:~$ sudo nginx -t
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
nginx: configuration file /etc/nginx/nginx.conf test is successful
ubuntu@ip-172-31-38-123:~$ sudo systemctl reload nginx
ubuntu@ip-172-31-38-123:~$ cd ~/TravelMemory/backend
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ npm install
```

added 117 packages, and audited 118 packages in 7s

13 packages are looking for funding
run `npm fund` for details

15 vulnerabilities (4 **low**, 1 **moderate**, 9 **high**, 1 **critical**)

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.

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ npm start
```

```
npm ERR! Missing script: "start"
```

```
npm ERR!
```

```
npm ERR! Did you mean one of these?
```

```
npm ERR!   npm star # Mark your favorite packages
```

```
npm ERR!   npm stars # View packages marked as favorites
```

```
npm ERR!
```

```
npm ERR! To see a list of scripts, run:
```

```
npm ERR!   npm run
```

npm ERR! A complete log of this run can be found in:

```
npm ERR!   /home/ubuntu/.npm/_logs/2025-06-13T17_48_59_410Z-debug-0.log
```

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ ls
```

```
conn.js controllers index.js models node_modules package-lock.json
```

```
package.json routes
```

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ cat package.json
```

```
{
  "name": "travelmemory-be",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "author": "Prashant Dey",
  "license": "ISC",
  "dependencies": {
    "cors": "^2.8.5",
    "dotenv": "^16.1.4",
    "express": "^4.18.2",
    "mongoose": "^7.2.4",
    "nodemon": "^2.0.22"
  }
}
```

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo nano package.json
```

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ npm start
```

```
npm ERR! code EJSONPARSE
```

```
npm ERR! path /home/ubuntu/TravelMemory/backend/package.json
```

```
npm ERR! JSON.parse Unexpected string in JSON at position 199 while parsing '{
```

```
npm ERR! JSON.parse   "name": "travelmemory-be",
```

```
npm ERR! JSON.parse   "versio'
```

```
npm ERR! JSON.parse Failed to parse JSON data.
```

```
npm ERR! JSON.parse Note: package.json must be actual JSON, not just JavaScript.
```

```
npm ERR! A complete log of this run can be found in:
npm ERR!   /home/ubuntu/.npm/_logs/2025-06-13T17_54_48_838Z-debug-0.log
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo nano package.json
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ npm start
npm ERR! code EJSONPARSE
npm ERR! path /home/ubuntu/TravelMemory/backend/package.json
npm ERR! JSON.parse Unexpected string in JSON at position 198 while parsing '{
npm ERR! JSON.parse   "name": "travelmemory-be",
npm ERR! JSON.parse   "versio'
npm ERR! JSON.parse Failed to parse JSON data.
npm ERR! JSON.parse Note: package.json must be actual JSON, not just JavaScript.
```

```
npm ERR! A complete log of this run can be found in:
npm ERR!   /home/ubuntu/.npm/_logs/2025-06-13T17_56_58_227Z-debug-0.log
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo nano package.json
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ npm start
```

```
> travelmemory-be@1.0.0 start
> node index.js
```

Server started at <http://localhost:3001>

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo nano .env
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo amazon-linux-extras install nginx1
sudo: amazon-linux-extras: command not found
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ pm2 start index.js --name travel-backend
Command 'pm2' not found, did you mean:
  command 'gm2' from deb gm2 (4:13.2.0-2ubuntu1)
  command 'tpm2' from deb tpm2-tools (5.4-1)
  command 'pmw' from deb pmw (1:5.22-1)
  command 'pm2' from deb libpod-pm-perl (2.01-4)
  command 'wm2' from deb wm2 (4+svn20090216-4build1)
  command 'pm' from deb powerman (2.3.27-4)
  command 'pnc' from deb linuxptp (4.0-1)
  command 'pmg' from deb python3-pymatgen (2023.06.23+dfsg1-2build1)
  command 'pms' from deb pms (0.42-1.1)
Try: sudo apt install <deb name>
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ Read from remote host 44.245.174.1: Operation timed out
Connection to 44.245.174.1 closed.
client_loop: send disconnect: Broken pipe
kanakamanojgarapati@RojaManu-MacBook-Air Downloads % ssh -i kanakamanoj-gkm.pem ubuntu@44.245.174.1
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.8.0-1029-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/pro

System information as of Fri Jun 13 17:41:46 UTC 2025

System load:  0.0          Processes:      113
Usage of /:   40.4% of 6.71GB   Users logged in:  1
Memory usage: 20%          IPv4 address for enX0: 172.31.38.123
Swap usage:   0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

Last login: Fri Jun 13 17:30:55 2025 from 49.207.197.66
ubuntu@ip-172-31-38-123:~$ sudo apt install nginx -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  nginx-common
Suggested packages:
  fcgiwrap nginx-doc ssl-cert
The following NEW packages will be installed:
  nginx nginx-common
0 upgraded, 2 newly installed, 0 to remove and 0 not upgraded.
Need to get 551 kB of archives.
After this operation, 1596 kB of additional disk space will be used.
Get:1 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 nginx-common all 1.24.0-2ubuntu7.3 [31.2 kB]
```

```
Get:2 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 nginx amd64 1.24.0-2ubuntu7.3 [528 kB]
Fetched 551 kB in 9s (5826 kB/s)
Preconfiguring packages ...
Selecting previously unselected package nginx-common.
(Reading database ... 149781 files and directories currently installed.)
Preparing to unpack .../nginx-common_1.24.0-2ubuntu7.3_all.deb ...
Unpacking nginx-common (1.24.0-2ubuntu7.3) ...
Selecting previously unselected package nginx.
Preparing to unpack .../nginx_1.24.0-2ubuntu7.3_amd64.deb ...
Unpacking nginx (1.24.0-2ubuntu7.3) ...
Setting up nginx (1.24.0-2ubuntu7.3) ...
Setting up nginx-common (1.24.0-2ubuntu7.3) ...
Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service → /usr/lib/systemd/system/nginx.service.
Processing triggers for ufw (0.36.2-6) ...
Processing triggers for man-db (2.12.0-4build2) ...
Scanning processes...

Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-38-123:~$ sudo systemctl enable nginx
Synchronizing state of nginx.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable nginx
ubuntu@ip-172-31-38-123:~$ sudo systemctl start nginx
ubuntu@ip-172-31-38-123:~$ sudo nano /etc/nginx/sites-available/travelmemory
ubuntu@ip-172-31-38-123:~$ sudo ln -s /etc/nginx/sites-available/travelmemory /etc/nginx/sites-enabled/
ubuntu@ip-172-31-38-123:~$ sudo nginx -t
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
nginx: configuration file /etc/nginx/nginx.conf test is successful
ubuntu@ip-172-31-38-123:~$ sudo systemctl reload nginx
ubuntu@ip-172-31-38-123:~$ cd ~/TravelMemory/backend
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ npm install

added 117 packages, and audited 118 packages in 7s

13 packages are looking for funding
  run `npm fund` for details

15 vulnerabilities (4 low, 1 moderate, 9 high, 1 critical)

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.
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ npm start
npm ERR! Missing script: "start"
```

```
Run `npm audit` for details.
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ npm start
npm ERR! Missing script: "start"
npm ERR!
npm ERR! Did you mean one of these?
npm ERR!   npm star # Mark your favorite packages
npm ERR!   npm stars # View packages marked as favorites
npm ERR!
npm ERR! To see a list of scripts, run:
npm ERR!   npm run

npm ERR! A complete log of this run can be found in:
npm ERR!   /home/ubuntu/.npm/_logs/2025-06-13T17:48:59.418Z-debug-0.log
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ ls
conn.js  controllers  index.js  models  node_modules  package-lock.json  package.json  routes
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ cat package.json
{
  "name": "travelmemory-be",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo `Error: no test specified` && exit 1"
  },
  "author": "Prashant Dey",
  "license": "ISC",
  "dependencies": {
    "cors": "^2.8.5",
    "dotenv": "^16.1.4",
    "express": "^4.18.2",
    "mongoose": "^7.2.4",
    "nodemon": "^2.0.22"
  }
}
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo nano package.json
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ npm start
npm ERR! code EJSONPARSE
npm ERR! path /home/ubuntu/TravelMemory/backend/package.json
npm ERR! JSON.parse Unexpected string in JSON at position 199 while parsing '{
npm ERR!   JSON.parse   "name": "travelmemory-be",
npm ERR!   JSON.parse   "versio
npm ERR!   JSON.parse Failed to parse JSON data.
npm ERR!   JSON.parse Note: package.json must be actual JSON, not just JavaScript.

npm ERR! A complete log of this run can be found in:
npm ERR!   /home/ubuntu/.npm/_logs/2025-06-13T17:56_48_838Z-debug-0.log
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo nano package.json
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ npm start
npm ERR! code EJSONPARSE
npm ERR! path /home/ubuntu/TravelMemory/backend/package.json
npm ERR! JSON.parse Unexpected string in JSON at position 198 while parsing '{
npm ERR!   JSON.parse   "name": "travelmemory-be",
npm ERR!   JSON.parse   "versio
npm ERR!   JSON.parse Failed to parse JSON data.
npm ERR!   JSON.parse Note: package.json must be actual JSON, not just JavaScript.

npm ERR! A complete log of this run can be found in:
npm ERR!   /home/ubuntu/.npm/_logs/2025-06-13T17:56_58_227Z-debug-0.log
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo nano package.json
```

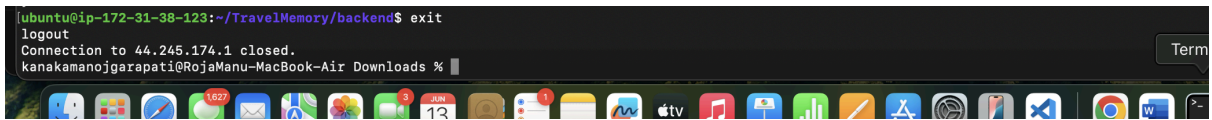
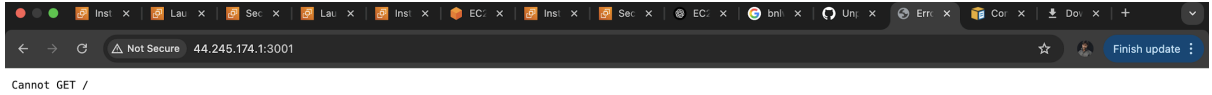
```
ubuntu@ip-172-31-38-123:~$ cd ~/TravelMemory/backend
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ cat package.json
{
  "name": "travelmemory-be",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \\\"Error: no test specified\\\" && exit 1",
    "start": "node index.js"
  },
  "author": "Prashant Dey",
  "license": "ISC",
  "dependencies": {
    "cors": "^2.8.5",
    "dotenv": "^16.1.4",
    "express": "^4.18.2",
    "mongoose": "^7.2.4",
    "nodemon": "^2.0.22"
  }
}
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$
```

```
Downloads — ubuntu@ip-172-31-38-123:~/TravelMemory/backend — zsh — 201x59
npm ERR! A complete log of this run can be found in:
npm ERR! /home/ubuntu/.npm/_logs/2025-06-13T17:48:59.410Z-debug-0.log
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ ls
conn.js controllers index.js models node_modules package-lock.json package.json routes
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ cat package.json
{
  "name": "travelmemory-be",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \\\"Error: no test specified\\\" && exit 1"
  },
  "author": "Prashant Dey",
  "license": "ISC",
  "dependencies": {
    "cors": "^2.8.5",
    "dotenv": "^16.1.4",
    "express": "^4.18.2",
    "mongoose": "^7.2.4",
    "nodemon": "^2.0.22"
  }
}
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo nano package.json
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ npm start
npm ERR! code EJSONPARSE
npm ERR! path /home/ubuntu/TravelMemory/backend/package.json
npm ERR! JSON.parse Unexpected string in JSON at position 199 while parsing '{
npm ERR! JSON.parse   "name": "travelmemory-be",
npm ERR! JSON.parse   "version":
npm ERR! JSON.parse Failed to parse JSON data.
npm ERR! JSON.parse Note: package.json must be actual JSON, not just JavaScript.

npm ERR! A complete log of this run can be found in:
npm ERR! /home/ubuntu/.npm/_logs/2025-06-13T17:54:48.838Z-debug-0.log
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo nano package.json
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ npm start
npm ERR! code EJSONPARSE
npm ERR! path /home/ubuntu/TravelMemory/backend/package.json
npm ERR! JSON.parse Unexpected string in JSON at position 198 while parsing '{
npm ERR! JSON.parse   "name": "travelmemory-be",
npm ERR! JSON.parse   "versio
npm ERR! JSON.parse Failed to parse JSON data.
npm ERR! JSON.parse Note: package.json must be actual JSON, not just JavaScript.

npm ERR! A complete log of this run can be found in:
npm ERR! /home/ubuntu/.npm/_logs/2025-06-13T17:56:58.227Z-debug-0.log
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo nano package.json
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ npm start
> travelmemory-be@1.0.0 start
> node index.js

Server started at http://localhost:3001
Read from remote host 44.245.174.1: Operation timed out
Connection to 44.245.174.1 closed.
client loop: send disconnect: Broken pipe
kanakamenograpati@RojjaManu-MacBook-Air Downloads %
```



Testing backend with custome domain

Backend running with custom domain

```

aws Search [Option+S] United States (Oregon) garapati.manoj@gmail.com @ 9750-5002-4946

System information as of Sat Jun 14 05:50:37 UTC 2025

System load: 0.0          Processes: 106
Usage of /: 41.3% of 6.71GB  Users logged in: 0
Memory usage: 22%        IPv4 address for enX0: 172.31.38.123
Swap usage: 0%

* Ubuntu Pro delivers the most comprehensive open source security and
  compliance features.

  https://ubuntu.com/aws/pro

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

Last login: Sat Jun 14 05:50:37 2025 from 18.237.140.163
ubuntu@ip-172-31-38-123:~$ ls
TravelMemory
ubuntu@ip-172-31-38-123:~$ cd TravelMemory
ubuntu@ip-172-31-38-123:~/TravelMemory$ ls
LICENSE README.md azure-pipelines.yml backend frontend
ubuntu@ip-172-31-38-123:~/TravelMemory$ cd backend
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo certbot --nginx -d api.kmgmt.info
Saving debug log to /var/log/letsencrypt/letsencrypt.log
Enter email address (used for urgent renewal and security notices)
(Enter 'c' to cancel): garapati.manoj@gmail.com

i-0e9c08584b6eb6163 (kanakaManoj-TM-BE-WUS2-01)
PublicIPs: 35.91.183.66 PrivateIPs: 172.31.38.123

```

```

aws Search [Option+S] United States (Oregon) garapati.manoj@gmail.com @ 9750-5002-4946

> Host: api.kmgmt.info
> User-Agent: curl/8.5.0
> Accept: */*
>
* TLSv1.3 (IN), TLS handshake, Newsession Ticket (4):
* TLSv1.3 (IN), TLS handshake, Newsession Ticket (4):
* old SSL session ID is stale, removing
< HTTP/1.1 502 Bad Gateway
< Server: nginx/1.24.0 (Ubuntu)
< Date: Sat, 14 Jun 2025 06:39:38 GMT
< Content-Type: text/html
< Content-Length: 166
< Connection: keep-alive
<
<html>
<head><title>502 Bad Gateway</title></head>
<body>
<center><h1>502 Bad Gateway</h1></center>
<hr><center>nginx/1.24.0 (Ubuntu)</center>
</body>
</html>
* Connection #0 to host api.kmgmt.info left intact
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ pm2 list



| id | name  | namespace | version | mode | pid   | uptime | ⚡    | status | cpu | mem    | user   | watching |
|----|-------|-----------|---------|------|-------|--------|------|--------|-----|--------|--------|----------|
| 0  | index | default   | 1.0.0   | fork | 3912  | 25m    | 1    | online | 0%  | 81.8mb | ubuntu | disabled |
| 1  | index | default   | 1.0.0   | fork | 18500 | 0s     | 1366 | online | 50% | 13.4mb | ubuntu | disabled |


ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo cat /etc/nginx/sites-available/travelmemory-backend
server {
    listen 80;
    server_name api.kmgmt.info;

    location / {

```

Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.8.0-1029-aws x86_64)

- * Documentation: <https://help.ubuntu.com>
- * Management: <https://landscape.canonical.com>
- * Support: <https://ubuntu.com/pro>

System information as of Sat Jun 14 05:50:37 UTC 2025

System load: 0.0 Processes: 106
Usage of /: 41.3% of 6.71GB Users logged in: 0
Memory usage: 22% IPv4 address for enX0: 172.31.38.123
Swap usage: 0%

* Ubuntu Pro delivers the most comprehensive open source security and compliance features.

<https://ubuntu.com/aws/pro>

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.

See <https://ubuntu.com/esm> or run: `sudo pro status`

Last login: Sat Jun 14 05:50:37 2025 from 18.237.140.163

ubuntu@ip-172-31-38-123:~\$ ls

TravelMemory

ubuntu@ip-172-31-38-123:~\$ cd TravelMemory

ubuntu@ip-172-31-38-123:~/TravelMemory\$ ls

LICENSE README.md azure-pipelines.yml backend frontend

```
ubuntu@ip-172-31-38-123:~/TravelMemory$ cd backend
```

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo certbot --nginx -d  
api.kmgmtm.info
```

```
Saving debug log to /var/log/letsencrypt/letsencrypt.log
```

```
Enter email address (used for urgent renewal and security notices)
```

```
(Enter 'c' to cancel): garapati.manoj@gmail.com
```

```
-----
```

```
Please read the Terms of Service at
```

```
https://letsencrypt.org/documents/LE-SA-v1.5-February-24-2025.pdf. You must  
agree in order to register with the ACME server. Do you agree?
```

```
-----
```

```
(Y)es/(N)o: Y
```

```
-----
```

```
Would you be willing, once your first certificate is successfully issued, to  
share your email address with the Electronic Frontier Foundation, a founding  
partner of the Let's Encrypt project and the non-profit organization that  
develops Certbot? We'd like to send you email about our work encrypting the web,  
EFF news, campaigns, and ways to support digital freedom.
```

```
-----
```

```
(Y)es/(N)o: Y
```

```
Account registered.
```

```
Requesting a certificate for api.kmgmtm.info
```

```
Successfully received certificate.
```

Certificate is saved at: /etc/letsencrypt/live/api.kmgmtm.info/fullchain.pem

Key is saved at: /etc/letsencrypt/live/api.kmgmtm.info/privkey.pem

This certificate expires on 2025-09-12.

These files will be updated when the certificate renews.

Certbot has set up a scheduled task to automatically renew this certificate in the background.

Deploying certificate

Successfully deployed certificate for api.kmgmtm.info to
/etc/nginx/sites-enabled/travelmemory

Congratulations! You have successfully enabled HTTPS on <https://api.kmgmtm.info>

If you like Certbot, please consider supporting our work by:

* Donating to ISRG / Let's Encrypt: <https://letsencrypt.org/donate>

* Donating to EFF: <https://eff.org/donate-le>

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo nginx -t
```

```
2025/06/14 06:39:10 [warn] 17348#17348: conflicting server name "api.kmgmtm.info" on 0.0.0.0:80, ignored
```

```
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
```

```
nginx: configuration file /etc/nginx/nginx.conf test is successful
```

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo systemctl reload nginx
```

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ curl -v https://api.kmgmtm.info
```

```
* Host api.kmgmtm.info:443 was resolved.
```

```
* IPv6: (none)
```

```
* IPv4: 35.91.183.66
```

* Trying 35.91.183.66:443...

* Connected to api.kmgmtm.info (35.91.183.66) port 443

* ALPN: curl offers h2,http/1.1

* TLSv1.3 (OUT), TLS handshake, Client hello (1):

* CAfile: /etc/ssl/certs/ca-certificates.crt

* CApath: /etc/ssl/certs

* TLSv1.3 (IN), TLS handshake, Server hello (2):

* TLSv1.3 (IN), TLS handshake, Encrypted Extensions (8):

* TLSv1.3 (IN), TLS handshake, Certificate (11):

* TLSv1.3 (IN), TLS handshake, CERT verify (15):

* TLSv1.3 (IN), TLS handshake, Finished (20):

* TLSv1.3 (OUT), TLS change cipher, Change cipher spec (1):

* TLSv1.3 (OUT), TLS handshake, Finished (20):

* SSL connection using TLSv1.3 / TLS_AES_256_GCM_SHA384 / X25519 / id-ecPublicKey

* ALPN: server accepted http/1.1

* Server certificate:

* subject: CN=api.kmgmtm.info

* start date: Jun 14 05:40:18 2025 GMT

* expire date: Sep 12 05:40:17 2025 GMT

* subjectAltName: host "api.kmgmtm.info" matched cert's "api.kmgmtm.info"

* issuer: C=US; O=Let's Encrypt; CN=E6

* SSL certificate verify ok.

* Certificate level 0: Public key type EC/prime256v1 (256/128 Bits/secBits), signed using ecdsa-with-SHA384

* Certificate level 1: Public key type EC/secp384r1 (384/192 Bits/secBits), signed using sha256WithRSAEncryption

* Certificate level 2: Public key type RSA (4096/152 Bits/secBits), signed using sha256WithRSAEncryption

* using HTTP/1.x

> GET / HTTP/1.1

> Host: api.kmgmtm.info

> User-Agent: curl/8.5.0

> Accept: */*

>

* TLSv1.3 (IN), TLS handshake, Newsession Ticket (4):

* TLSv1.3 (IN), TLS handshake, Newsession Ticket (4):

* old SSL session ID is stale, removing

< HTTP/1.1 502 Bad Gateway

< Server: nginx/1.24.0 (Ubuntu)

< Date: Sat, 14 Jun 2025 06:39:38 GMT

< Content-Type: text/html

< Content-Length: 166

< Connection: keep-alive

<

<html>

<head><title>502 Bad Gateway</title></head>

<body>

<center><h1>502 Bad Gateway</h1></center>

<hr><center>nginx/1.24.0 (Ubuntu)</center>

</body>

</html>

* Connection #0 to host api.kmgmtm.info left intact

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ pm2 list
```

id	name	namespace	version	mode	pid	uptime	U	status	cpu	mem	user	watching
0	index	default	1.0.0	fork	3912	25m	1	online	0%	81.8mb	ubuntu	disabled
1	index	default	1.0.0	fork	18500	0s	1366	online	50%	13.4mb	ubuntu	disabled

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo cat /etc/nginx/sites-available/travelmemory-backend
```

```
server {  
    listen 80;  
    server_name api.kmgmtm.info;  
  
    location / {  
        proxy_pass http://localhost:3000;  
        proxy_http_version 1.1;  
        proxy_set_header Host $host;  
        proxy_set_header X-Real-IP $remote_addr;  
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;  
        proxy_set_header Upgrade $http_upgrade;  
        proxy_set_header Connection 'upgrade';  
    }  
}
```

```
}
```

```
}
```

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo nano  
/etc/nginx/sites-available/travelmemory-backend
```

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo nginx -t
```

```
2025/06/14 06:43:59 [warn] 20061#20061: conflicting server name "api.kmgmtm.info" on  
0.0.0.0:443, ignored
```

```
2025/06/14 06:43:59 [warn] 20061#20061: conflicting server name "api.kmgmtm.info" on  
0.0.0.0:80, ignored
```

```
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
```

```
nginx: configuration file /etc/nginx/nginx.conf test is successful
```

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo systemctl reload nginx
```

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ curl -v https://api.kmgmtm.info
```

```
* Host api.kmgmtm.info:443 was resolved.
```

```
* IPv6: (none)
```

```
* IPv4: 35.91.183.66
```

```
* Trying 35.91.183.66:443...
```

```
* Connected to api.kmgmtm.info (35.91.183.66) port 443
```

```
* ALPN: curl offers h2,http/1.1
```

```
* TLSv1.3 (OUT), TLS handshake, Client hello (1):
```

```
* CAfile: /etc/ssl/certs/ca-certificates.crt
```

```
* CApath: /etc/ssl/certs
```

```
* TLSv1.3 (IN), TLS handshake, Server hello (2):
```

```
* TLSv1.3 (IN), TLS handshake, Encrypted Extensions (8):
```

```
* TLSv1.3 (IN), TLS handshake, Certificate (11):
```

```
* TLSv1.3 (IN), TLS handshake, CERT verify (15):
```

```
* TLSv1.3 (IN), TLS handshake, Finished (20):
```

* TLSv1.3 (OUT), TLS change cipher, Change cipher spec (1):

* TLSv1.3 (OUT), TLS handshake, Finished (20):

* SSL connection using TLSv1.3 / TLS_AES_256_GCM_SHA384 / X25519 / id-ecPublicKey

* ALPN: server accepted http/1.1

* Server certificate:

* subject: CN=api.kmgm.info

* start date: Jun 14 05:40:18 2025 GMT

* expire date: Sep 12 05:40:17 2025 GMT

* subjectAltName: host "api.kmgm.info" matched cert's "api.kmgm.info"

* issuer: C=US; O=Let's Encrypt; CN=E6

* SSL certificate verify ok.

* Certificate level 0: Public key type EC/prime256v1 (256/128 Bits/secBits), signed using ecdsa-with-SHA384

* Certificate level 1: Public key type EC/secp384r1 (384/192 Bits/secBits), signed using sha256WithRSAEncryption

* Certificate level 2: Public key type RSA (4096/152 Bits/secBits), signed using sha256WithRSAEncryption

* using HTTP/1.x

> GET / HTTP/1.1

> Host: api.kmgm.info

> User-Agent: curl/8.5.0

> Accept: */*

>

* TLSv1.3 (IN), TLS handshake, Newsession Ticket (4):

* TLSv1.3 (IN), TLS handshake, Newsession Ticket (4):

* old SSL session ID is stale, removing

< HTTP/1.1 502 Bad Gateway

```
< Server: nginx/1.24.0 (Ubuntu)
< Date: Sat, 14 Jun 2025 06:44:23 GMT
< Content-Type: text/html
< Content-Length: 166
< Connection: keep-alive
<
<html>
<head><title>502 Bad Gateway</title></head>
<body>
<center><h1>502 Bad Gateway</h1></center>
<hr><center>nginx/1.24.0 (Ubuntu)</center>
</body>
</html>
```

* Connection #0 to host api.kmgmtm.info left intact

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ conflicting server name
"api.kmgmtm.info" on 0.0.0.0:443, ignored
```

conflicting: command not found

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo grep -ir 'server_name
api.kmgmtm.info' /etc/nginx/sites-available
```

```
/etc/nginx/sites-available/travelmemory: server_name api.kmgmtm.info;
```

```
/etc/nginx/sites-available/travelmemory: server_name api.kmgmtm.info;
```

```
/etc/nginx/sites-available/travelmemory-backend: server_name api.kmgmtm.info;
```

```
/etc/nginx/sites-available/travelmemory-backend: server_name api.kmgmtm.info;
```

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo rm
/etc/nginx/sites-enabled/travelmemory
```

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo grep -ir 'server_name
api.kmgmtm.info' /etc/nginx/sites-available
```

```
/etc/nginx/sites-available/travelmemory: server_name api.kmgmtm.info;
```

```
/etc/nginx/sites-available/travelmemory: server_name api.kmgmtm.info;
/etc/nginx/sites-available/travelmemory-backend: server_name api.kmgmtm.info;
/etc/nginx/sites-available/travelmemory-backend: server_name api.kmgmtm.info;
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo rm
/etc/nginx/sites-enabled/travelmemory

rm: cannot remove '/etc/nginx/sites-enabled/travelmemory': No such file or directory

ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo rm
/etc/nginx/sites-available/travelmemory

ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo grep -ir 'server_name
api.kmgmtm.info' /etc/nginx/sites-available

/etc/nginx/sites-available/travelmemory-backend: server_name api.kmgmtm.info;
/etc/nginx/sites-available/travelmemory-backend: server_name api.kmgmtm.info;
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo nginx -t

nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
nginx: configuration file /etc/nginx/nginx.conf test is successful

ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo systemctl reload nginx

ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ curl -v https://api.kmgmtm.info

* Host api.kmgmtm.info:443 was resolved.
* IPv6: (none)
* IPv4: 35.91.183.66
* Trying 35.91.183.66:443...
* Connected to api.kmgmtm.info (35.91.183.66) port 443
* ALPN: curl offers h2,http/1.1
* TLSv1.3 (OUT), TLS handshake, Client hello (1):
* CAfile: /etc/ssl/certs/ca-certificates.crt
* CApath: /etc/ssl/certs
* TLSv1.3 (IN), TLS handshake, Server hello (2):
```

* TLSv1.3 (IN), TLS handshake, Encrypted Extensions (8):

* TLSv1.3 (IN), TLS handshake, Certificate (11):

* TLSv1.3 (IN), TLS handshake, CERT verify (15):

* TLSv1.3 (IN), TLS handshake, Finished (20):

* TLSv1.3 (OUT), TLS change cipher, Change cipher spec (1):

* TLSv1.3 (OUT), TLS handshake, Finished (20):

* SSL connection using TLSv1.3 / TLS_AES_256_GCM_SHA384 / X25519 / id-ecPublicKey

* ALPN: server accepted http/1.1

* Server certificate:

* subject: CN=api.kmgmtm.info

* start date: Jun 14 05:40:18 2025 GMT

* expire date: Sep 12 05:40:17 2025 GMT

* subjectAltName: host "api.kmgmtm.info" matched cert's "api.kmgmtm.info"

* issuer: C=US; O=Let's Encrypt; CN=E6

* SSL certificate verify ok.

* Certificate level 0: Public key type EC/prime256v1 (256/128 Bits/secBits), signed using ecdsa-with-SHA384

* Certificate level 1: Public key type EC/secp384r1 (384/192 Bits/secBits), signed using sha256WithRSAEncryption

* Certificate level 2: Public key type RSA (4096/152 Bits/secBits), signed using sha256WithRSAEncryption

* using HTTP/1.x

> GET / HTTP/1.1

> Host: api.kmgmtm.info

> User-Agent: curl/8.5.0

> Accept: */*

>

* TLSv1.3 (IN), TLS handshake, Newsession Ticket (4):

* TLSv1.3 (IN), TLS handshake, Newsession Ticket (4):

* old SSL session ID is stale, removing

< HTTP/1.1 200 OK

< Server: nginx/1.24.0 (Ubuntu)

< Date: Sat, 14 Jun 2025 06:52:17 GMT

< Content-Type: text/html; charset=utf-8

< Content-Length: 32

< Connection: keep-alive

< X-Powered-By: Express

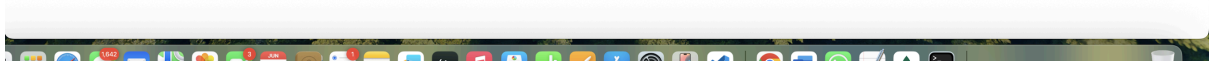
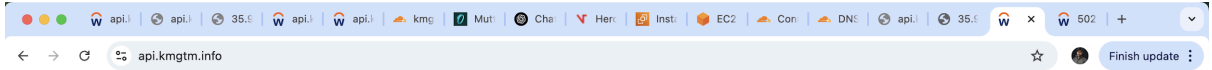
< Access-Control-Allow-Origin: *

< ETag: W/"20-4iAP7IQHE6ZrnH+VcbvFZY4Xe1Q"

<

* Connection #0 to host api.kmgmtm.info left intact

TravelMemory backend is running!ubuntu@ip-172-31-38-123:~/TravelMemory/backend\$



kanakaManoj-TM-FE-WUS2-01

Cloudflare config

dash.cloudflare.com/a0f3de9ba082428de111487f40d5a64b/kmgmtm.info/dns/records

Garapati.manoj@gmail.com's Account

Go to... Support + Add English

kmgmtm.info Active Star Free plan

- Overview
- AI Audit Beta
- Analytics & Logs
- DNS
 - Records**
 - Analytics
 - Settings
- Email
- SSL/TLS
- Security
- Access
- Speed
- Caching
- Workers Routes
- Rules
- Error Pages New

« Collapse sidebar

Chat

DNS management for kmgmtm.info

Review, add, and edit DNS records. Edits will go into effect once saved. DNS Setup: Full [Import and Export](#) [Dashboard Display Settings](#)

Search DNS Records

Type	Name	Content	Proxy status	TTL	Actions
A	api	35.91.183.66	DNS only	Auto	Edit
A	kmgmtm.info	44.245.174.1	Proxied	Auto	Edit

Cloudflare Nameservers

Every DNS zone on Cloudflare is assigned a set of Cloudflare-branded nameservers.

Type	Value
NS	autumn.ns.cloudflare.com
NS	henry.ns.cloudflare.com

5. Frontend Setup

Steps to deploy the React frontend application.

Step 2: Create EC2 Instance for Frontend

Created EC2 instance of frontend with name KanakaManoj-TM-FE-WUS2-01

aws [Search] [Option+S] United States (Oregon) garapati.manoj@gmail.com @ 9750-5002-4946

EC2 > Instances > Launch an instance

Launch an instance [Info](#)

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags [Info](#)

Name

 [Add additional tags](#)

Application and OS Images (Amazon Machine Image) [Info](#)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Search our full catalog including 1000s of application and OS images

Recents | My AMIs | **Quick Start**

Amazon Linux

macOS

Ubuntu

Windows

Red Hat

[Browse more AMIs](#)
Including AMIs from AWS, Marketplace and the Community

Summary

Number of instances [Info](#)

Software Image (AMI)
Canonical, Ubuntu, 24.04, amd64...[read more](#)
ami-05f991c49d264708f

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where applicable).

[Cancel](#) [Launch instance](#) [Preview code](#)

Info Tutorial >

Security groups

A security group is a set of firewall rules that controls the traffic to and from your instance. Inbound rules control the incoming traffic to your instance, and outbound rules control the outgoing traffic from your instance. You can assign one or more security groups to your instance. If you assign multiple security groups, all the rules are evaluated to control inbound and outbound traffic. If no value is specified the value of the source template will still be used. If the template value is not specified then the default API value will be used.

[Learn more](#)

[Create a VPC security group for a public web server](#)

[Create a VPC security group for a private DB instance](#)

aws [Search] [Option+S] United States (Oregon) garapati.manoj@gmail.com @ 9750-5002-4946

EC2 > Instances > Launch an instance

Ubuntu Server 24.04 LTS (HVM), SSD Volume Type Free tier eligible

ami-05f991c49d264708f (64-bit (x86)) / ami-0836fd4a4a0b4f6ec (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs

Description

Ubuntu Server 24.04 LTS (HVM),EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

Canonical, Ubuntu, 24.04, amd64 noble image

Architecture	AMI ID	Publish Date	Username	
64-bit...	ami-05f991c49d264708f	2025-06-10	ubuntu	Verified provider

Instance type [Info](#) [Get advice](#)

Instance type

t2.micro Free tier eligible

Family: t2 1 vCPU 1 GiB Memory Current generation: true

On-Demand Linux base pricing: 0.0116 USD per Hour

On-Demand SUSE base pricing: 0.0116 USD per Hour

On-Demand Windows base pricing: 0.0162 USD per Hour

On-Demand RHEL base pricing: 0.026 USD per Hour

On-Demand Ubuntu Pro base pricing: 0.0134 USD per Hour

All generations [Compare instance types](#)

[Additional costs apply for AMIs with pre-installed software](#)

Key pair (login) [Info](#)

Summary

Number of instances [Info](#)

Software Image (AMI)
Canonical, Ubuntu, 24.04, amd64...[read more](#)
ami-05f991c49d264708f

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

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1 volume(s) - 8 GiB

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[Cancel](#) [Launch instance](#) [Preview code](#)

Info Tutorial >

Security groups

A security group is a set of firewall rules that controls the traffic to and from your instance. Inbound rules control the incoming traffic to your instance, and outbound rules control the outgoing traffic from your instance. You can assign one or more security groups to your instance. If you assign multiple security groups, all the rules are evaluated to control inbound and outbound traffic. If no value is specified the value of the source template will still be used. If the template value is not specified then the default API value will be used.

[Learn more](#)

[Create a VPC security group for a public web server](#)

[Create a VPC security group for a private DB instance](#)

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EC2 > Instances > Launch an instance

Key pair (login) Info

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

kanakamanoj-gkm ↕ [Create new key pair](#)

Network settings Info Edit

Network Info
vpc-0321f38a7b594180d | default

Subnet Info
No preference (Default subnet in any availability zone)

Auto-assign public IP Info
Enable
Additional charges apply when outside of free tier allowance

Firewall (security groups) Info
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group

Select existing security group

Summary

Number of instances Info
1

Software Image (AMI)
Canonical, Ubuntu, 24.04, amd6...[read more](#)
ami-05f991c49d264708f

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where applicable).

Cancel Launch instance Preview code

Info Tutorial

Security groups

A security group is a set of firewall rules that controls the traffic to and from your instance. Inbound rules control the incoming traffic to your instance, and outbound rules control the outgoing traffic from your instance. You can assign one or more security groups to your instance. If you assign multiple security groups, all the rules are evaluated to control inbound and outbound traffic. If no value is specified the value of the source template will still be used. If the template value is not specified then the default API value will be used.

[Learn more](#)

[Create a VPC security group for a public web server](#)

[Create a VPC security group for a private DB instance](#)

We'll create a new security group called 'launch-wizard-95' with the following rules:

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aws Search [Option+S] United States (Oregon) garapati.manoj@gmail.com @ 9750-5002-4946

EC2 > Instances > Launch an instance

We'll create a new security group called 'launch-wizard-95' with the following rules:

- Allow SSH traffic from Helps you connect to your instance Anywhere 0.0.0.0/0
- Allow HTTPS traffic from the internet To set up an endpoint, for example when creating a web server
- Allow HTTP traffic from the internet To set up an endpoint, for example when creating a web server

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Configure storage Info Advanced

1x GiB Root volume, 3000 IOPS, Not encrypted

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage

[Add new volume](#)

The selected AMI contains instance store volumes, however the instance does not allow any instance store volumes. None of the instance store volumes from the AMI will be accessible from the instance

[Click refresh to view backup information](#)

Summary

Number of instances Info
1

Software Image (AMI)
Canonical, Ubuntu, 24.04, amd6...[read more](#)
ami-05f991c49d264708f

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where applicable).

Cancel Launch instance Preview code

Info Tutorial

Security groups

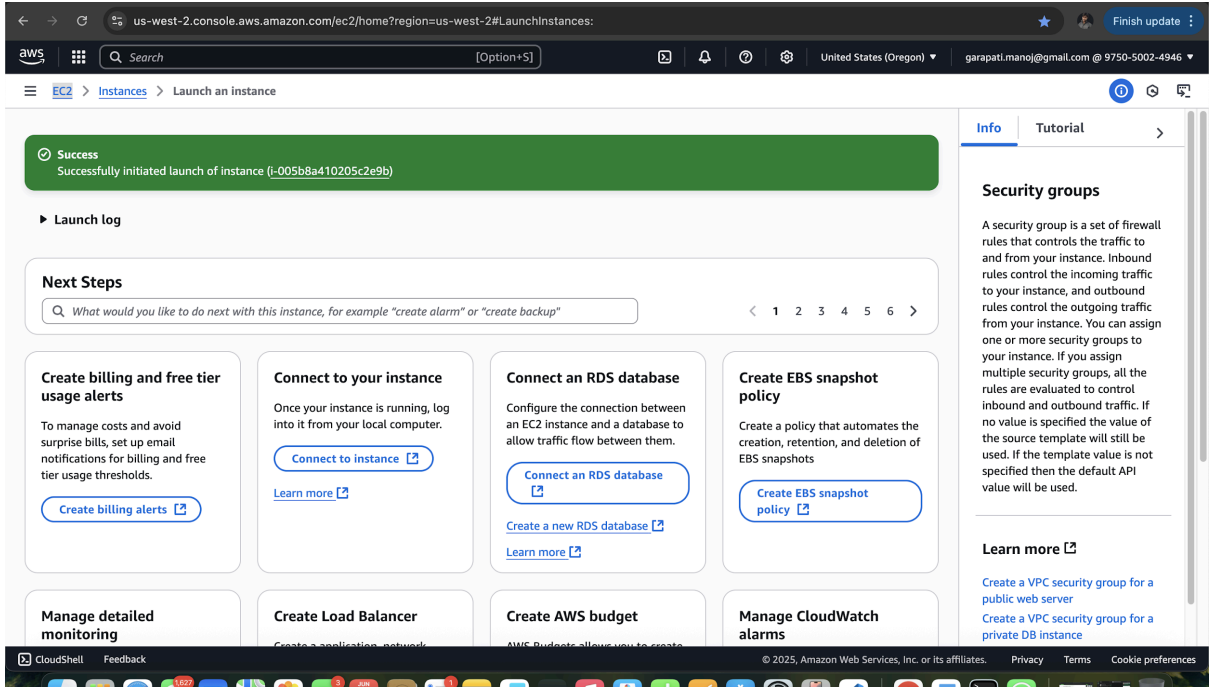
A security group is a set of firewall rules that controls the traffic to and from your instance. Inbound rules control the incoming traffic to your instance, and outbound rules control the outgoing traffic from your instance. You can assign one or more security groups to your instance. If you assign multiple security groups, all the rules are evaluated to control inbound and outbound traffic. If no value is specified the value of the source template will still be used. If the template value is not specified then the default API value will be used.

[Learn more](#)

[Create a VPC security group for a public web server](#)

[Create a VPC security group for a private DB instance](#)

https://us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#Home: © 2025, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences



Now connecting to front end

```
[kanakamanojgarapati@RojaManu-MacBook-Air Downloads % ssh -i kanakamanoj-gkm.pem ubuntu@35.93.116.139
0 The authenticity of host '35.93.116.139 (35.93.116.139)' can't be established.
ED25519 key fingerprint is SHA256:2i3WRjsEBnqftD2xHEl0ufjah7w20L8AfMM5HDjT9gU.
E This key is not known by any other names.
S Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '35.93.116.139' (ED25519) to the list of known hosts.
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.8.0-1029-aws x86_64)

* Documentation: https://help.ubuntu.com
* Management:   https://landscape.canonical.com
* Support:      https://ubuntu.com/pro

T
i
System information as of Fri Jun 13 18:13:16 UTC 2025
U
a
System load: 0.08          Processes:            103
Memory usage: 20%        Users logged in:    0
Swap usage: 0%           IPv4 address for enX0: 172.31.43.184

T
S
Expanded Security Maintenance for Applications is not enabled.
U
0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

Last login: Fri Jun 13 18:13:17 2025 from 18.237.140.164
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-43-184:~$
```

```
Preparing to unpack .../nginx-common_1.24.0-2ubuntu7.3_all.deb ...
Unpacking nginx-common (1.24.0-2ubuntu7.3) ...
Selecting previously unselected package nginx.
Preparing to unpack .../nginx_1.24.0-2ubuntu7.3_amd64.deb ...
Unpacking nginx (1.24.0-2ubuntu7.3) ...
Setting up nginx (1.24.0-2ubuntu7.3) ...
Setting up nginx-common (1.24.0-2ubuntu7.3) ...
Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service → /usr/lib/systemd/system/nginx.service.
Processing triggers for ufw (0.36.2-6) ...
Processing triggers for man-db (2.12.0-4build2) ...
Scanning processes...
Scanning linux images...

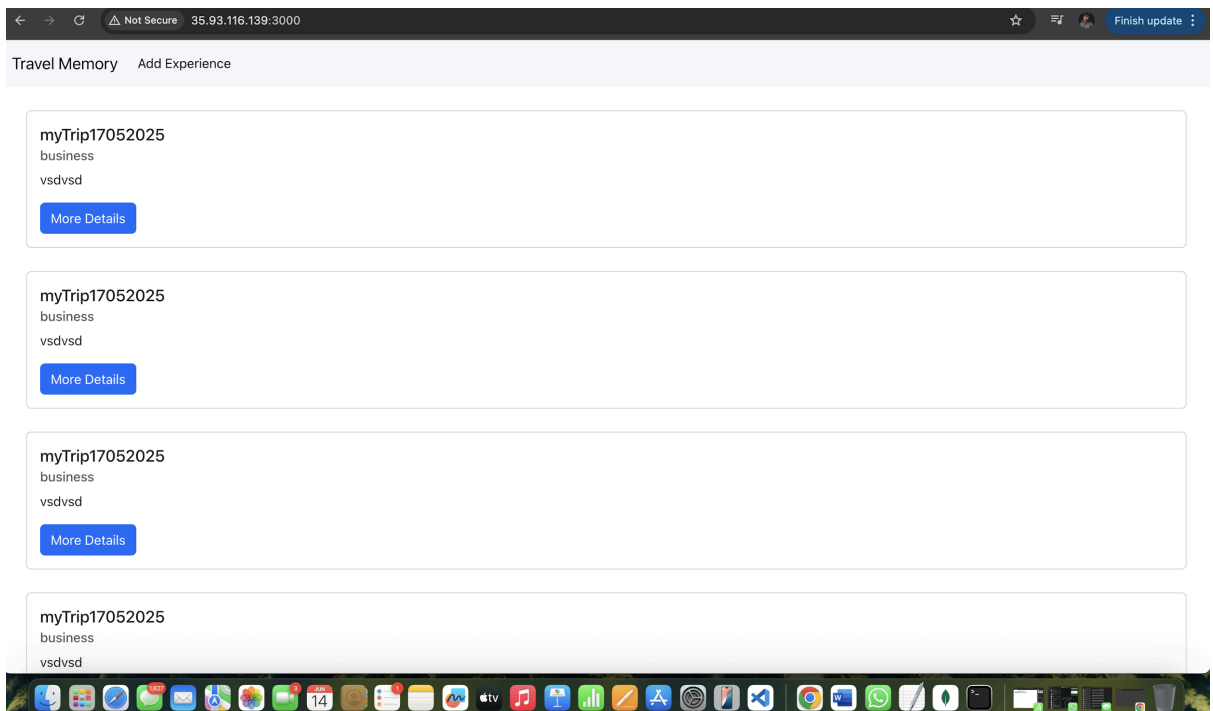
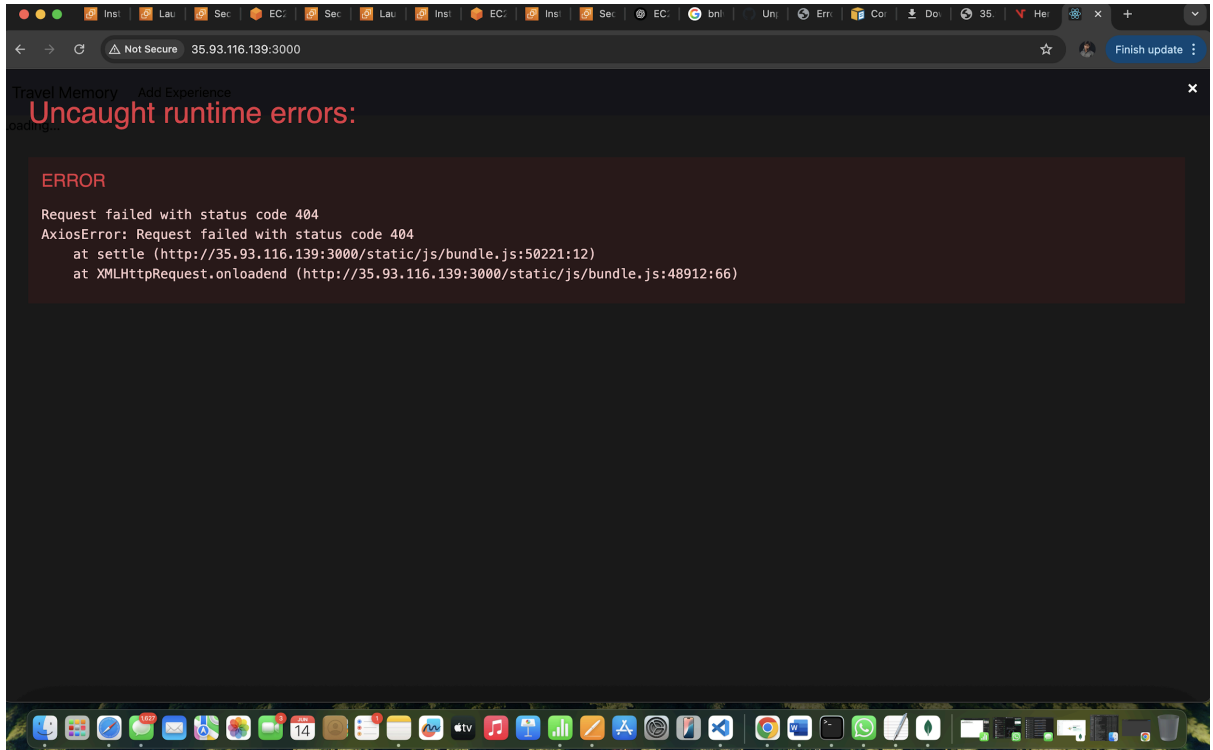
Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
| ubuntu@ip-172-31-43-184:~/TravelMemory/frontend$ sudo systemctl start nginx
ubuntu@ip-172-31-43-184:~/TravelMemory/frontend$ sudo systemctl enable nginx
Synchronizing state of nginx.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable nginx
ubuntu@ip-172-31-43-184:~/TravelMemory/frontend$ sudo nano /etc/nginx/nginx.conf
ubuntu@ip-172-31-43-184:~/TravelMemory/frontend$ ls
README.md build node_modules package-lock.json package.json public src
ubuntu@ip-172-31-43-184:~/TravelMemory/frontend$ cd public
ubuntu@ip-172-31-43-184:~/TravelMemory/frontend/public$ ls
favicon.ico index.html logo192.png logo512.png manifest.json robots.txt
ubuntu@ip-172-31-43-184:~/TravelMemory/frontend/public$ cd ..
ubuntu@ip-172-31-43-184:~/TravelMemory/frontend$ cd src
ubuntu@ip-172-31-43-184:~/TravelMemory/frontend/src$ ls
App.css App.js App.test.js components index.css index.js logo.svg reportWebVitals.js setupTests.js url.js
ubuntu@ip-172-31-43-184:~/TravelMemory/frontend/src$ cat url.js
export const baseUrl = process.env.REACT_APP_BACKEND_URL || "http://localhost:3001";
ubuntu@ip-172-31-43-184:~/TravelMemory/frontend/src$ sudo nano url.js
ubuntu@ip-172-31-43-184:~/TravelMemory/frontend/src$ sudo nano /etc/nginx/nginx.conf
ubuntu@ip-172-31-43-184:~/TravelMemory/frontend/src$ root /var/www/html;
Command 'root' not found, did you mean:
  command 'rott' from deb rott (20230810-1)
  command 'proot' from deb proot (5.1.0-1.3)
  command 'rootv' from deb xawtv (3.107-1.1)
  command 'toot' from deb toot (0.39.0-1)
  command 'foot' from deb foot (1.16.2-2ubuntu0.1)
Try: sudo apt install <deb name>
ubuntu@ip-172-31-43-184:~/TravelMemory/frontend/src$ sudo nginx -t
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
nginx: configuration file /etc/nginx/nginx.conf test is successful
ubuntu@ip-172-31-43-184:~/TravelMemory/frontend/src$ cd ..
ubuntu@ip-172-31-43-184:~/TravelMemory/frontend$ sudo systemctl restart nginx
ubuntu@ip-172-31-43-184:~/TravelMemory/frontend$ sudo nano /etc/nginx/nginx.conf
ubuntu@ip-172-31-43-184:~/TravelMemory/frontend$ ls /home/ubuntu/TravelMemory/frontend/build/index.html
/home/ubuntu/TravelMemory/frontend/build/index.html
ubuntu@ip-172-31-43-184:~/TravelMemory/frontend$ sudo nginx -t
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
nginx: configuration file /etc/nginx/nginx.conf test is successful
ubuntu@ip-172-31-43-184:~/TravelMemory/frontend$ sudo systemctl restart nginx
ubuntu@ip-172-31-43-184:~/TravelMemory/frontend$ █
```



Front end

EC2 > Instances > i-0e9c08584b6eb6163

AMIs
AMI Catalog

▼ Elastic Block Store
Volumes
Snapshots
Lifecycle Manager

▼ Network & Security
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces

▼ Load Balancing
Load Balancers
Target Groups
Trust Stores

▼ Auto Scaling
Auto Scaling Groups

Settings

State transition reason - State transition message - Owner 975050024946 Current instance boot mode legacy-bios Answer RBN DNS hostname IPv4 Enabled Host and placement group Info Host ID - Host resource group name - Virtualization type hvm Number of vCPUs 1 Capacity reservation Info Capacity Reservation ID -	Credit specification standard Usage operation RunInstances Enclaves Support - Allow tags in instance metadata Disabled Affinity - Tenancy default Reservation r-06d001c48113f3f32 Capacity Reservation setting open	Kernel ID - RAM disk ID - Boot mode uefi-preferred Use RBN as guest OS hostname Disabled Placement group - Placement group ID - Partition number -
---	--	--

https://us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#LoadBalancers: © 2025, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

EC2 > Load balancers > Create Application Load Balancer

Application Load Balancers now support public IPv4 IP Address Management (IPAM)
You can get started with this feature by configuring IP pools in the Network mapping section.

Create Application Load Balancer

The Application Load Balancer distributes incoming HTTP and HTTPS traffic across multiple targets such as Amazon EC2 instances, microservices, and containers, based on request attributes. When the load balancer receives a connection request, it evaluates the listener rules in priority order to determine which rule to apply, and if applicable, it selects a target from the target group for the rule action.

► How Application Load Balancers work

Basic configuration

Load balancer name
Name must be unique within your AWS account and can't be changed after the load balancer is created.
kanaka-tm-ALB
A maximum of 32 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen.

Scheme Info
Scheme can't be changed after the load balancer is created.

Internet-facing

- Serves internet-facing traffic.
- Has public IP addresses.
- DNS name resolves to public IPs.
- Requires a public subnet.

Internal

- Serves internal traffic.
- Has private IP addresses.
- DNS name resolves to private IPs.
- Compatible with the IPv4 and Dualstack IP address types.

Load balancer IP address type Info
Select the front-end IP address type to assign to the load balancer. The VPC and subnets mapped to this load balancer must include the selected IP address types. Public IPv4 addresses have an additional cost.

IPv4

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Front end loaded with

44.246.191.147 custom domain

npm install -g serve

```
serve -s build
```

Find out more about deployment here:

<https://cra.link/deployment>

```
ubuntu@ip-172-31-36-169:~/TravelMemory/frontend$ sudo cp -r build/*  
/var/www/html/
```

```
ubuntu@ip-172-31-36-169:~/TravelMemory/frontend$ sudo nano  
/etc/nginx/sites-available/default
```

```
ubuntu@ip-172-31-36-169:~/TravelMemory/frontend$ sudo nano  
/etc/nginx/sites-available/default
```

```
ubuntu@ip-172-31-36-169:~/TravelMemory/frontend$ sudo nginx -t
```

```
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
```

```
nginx: configuration file /etc/nginx/nginx.conf test is successful
```

```
ubuntu@ip-172-31-36-169:~/TravelMemory/frontend$ sudo systemctl restart nginx
```

```
ubuntu@ip-172-31-36-169:~/TravelMemory/frontend$ sudo apt install certbot  
python3-certbot-nginx -y
```

Travel Memory Add Experience

Trip Name
myTrip 14062025

Trip Date
14/06/2025 16/06/2025

Name of Hotels
test

Trip Type
Backpacking

Total Cost
11111107

Places Visited
Delhi, Paris, London, etc.

Featured Trip?
 True
 False

Image Link
http://xyz.com/image.png

Short Description
Write Short Description

- Travel Memory Add Experience
- myTrip17052025
business
vsdvsd
[More Details](#)
 - myTrip17052025
business
vsdvsd
[More Details](#)
 - myTrip17052025
business
vsdvsd
[More Details](#)
 - myTrip17052025
business
vsdvsd
[More Details](#)

6. Backend Setup using image

Steps to deploy the backend on an EC2 instance.

Clone Backend

The screenshot shows the AWS Management Console interface for an EC2 instance. The instance ID is `i-0e9c08584b6eb6163`. The 'Actions' menu is expanded, showing options for Instance diagnostics, Instance settings, Networking, Security, Image and templates, and Monitor and troubleshoot. The 'Image and templates' option is selected, showing sub-options: 'Create image', 'Create template from instance', and 'Launch more like this'. The instance details include: Instance ID, IPv6 address, Hostname type (IP name: `ip-172-31-38-123.us-west-2.compute.internal`), Answer private resource DNS name (IPv4 (A)), Auto-assigned IP address (`34.213.25.19` [Public IP]), Instance type (`t2.micro`), VPC ID (`vpc-0321f38a7b594180d` (default)), Private IP DNS name (`ip-172-31-38-123`), and Public IPv4 addresses (`172.31.38.123`). There is also a warning for AWS Compute Optimizer finding.

The screenshot shows the 'Create image' wizard in the AWS Management Console. The 'Image name' field contains `kanakaManoj-TM-BE-WUS2-022`. The 'Image description - optional' field contains `for OZ`. The 'Reboot instance' checkbox is checked. The 'Instance volumes' table shows a single volume with storage type 'EBS', device `/dev...`, snapshot 'Create new snapshot f...', size '8', volume type 'EBS General Purpose S...', IOPS '3000', and 'Delete on termination' checked. There is a note: 'During the image creation process, Amazon EC2 creates a snapshot of each of the above volumes.' The 'Tags - optional' section has two radio buttons: 'Tag image and snapshots together' (selected) and 'Tag image and snapshots separately'. The footer shows '© 2025 Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences'.

The screenshot shows the AWS Management Console interface. At the top, there's a navigation bar with the AWS logo, a search bar, and user information. The main content area is divided into a left-hand navigation pane and a main content area. The left pane shows the 'EC2' section with various options like Dashboard, EC2 Global View, Events, and Instances. The main content area displays a list of EC2 instances under the heading 'Instances (1/7) Info'. A table lists several instances, with the first one, 'kanakaManoj-TM-BE-WUS2-01', selected. Below the table, the details for this instance are shown, including its Instance ID, Public IPv4 address, Private IPv4 addresses, Public DNS, Instance state (Running), Hostname type, Private IP DNS name, and Instance type.

7. Frontend Setup using image

Steps to deploy the React frontend application.

Clone front end

This screenshot shows the AWS Management Console interface for a specific EC2 instance. The main content area displays the 'Instance summary for i-09f411274a2c4f9e6 (kanakaManoj-TM-FE-WUS2-01)'. A dropdown menu is open under the 'Actions' button, showing options like 'Instance diagnostics', 'Instance settings', 'Networking', 'Security', 'Image and templates', and 'Monitor and troubleshoot'. The 'Image and templates' option is highlighted, and a sub-menu is visible with options: 'Create image', 'Create template from instance', and 'Launch more like this'. The instance details on the right include Instance ID, IPv6 address, Hostname type, Answer private resource DNS name, Auto-assigned IP address, IAM Role, and Instance type.

aws Search [Option+S] United States (Oregon) garapati.manoj@gmail.com @ 9750-5002-4946

EC2 > Instances > i-09f411274a2c4f9e6 > Create image

EC2

- Dashboard
- EC2 Global View
- Events
- Instances**
 - Instances
 - Instance Types
 - Launch Templates
 - Spot Requests
 - Savings Plans
 - Reserved Instances
 - Dedicated Hosts
 - Capacity Reservations
- Images**
 - AMIs
 - AMI Catalog
- Elastic Block Store**
 - Volumes
 - Snapshots
 - Lifecycle Manager
- Network & Security**
 - Security Groups
 - Elastic IPs

i-09f411274a2c4f9e6 (kanakaManoj-TM-FE-WUS2-01)

Image name
kanakaManoj-TM-FE-WUS2-022
Maximum 127 characters. Can't be modified after creation.

Image description - optional
from front end
Maximum 255 characters

Reboot instance
When selected, Amazon EC2 reboots the instance so that data is at rest when snapshots of the attached volumes are taken. This ensures data consistency.

Instance volumes

Storage type	Device	Snapshot	Size	Volume type	IOPS	Throughput	Delete on termination	Encrypted
...	/...	Create new sna...	8	EBS General Pur...	3000		<input checked="" type="checkbox"/> Enable	<input type="checkbox"/> Enable

[Add volume](#)

During the image creation process, Amazon EC2 creates a snapshot of each of the above volumes.

Tags - optional
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Tag image and snapshots together
Tag the image and the snapshots with the same tag.

Tag image and snapshots separately
Tag the image and the snapshots with different tags.

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EC2 > Instances

EC2

- Dashboard
- EC2 Global View
- Events
- Instances**
 - Instances
 - Instance Types
 - Launch Templates
 - Spot Requests
 - Savings Plans
 - Reserved Instances
 - Dedicated Hosts
 - Capacity Reservations
- Images**
 - AMIs
 - AMI Catalog
- Elastic Block Store**
 - Volumes
 - Snapshots
 - Lifecycle Manager
- Network & Security**
 - Security Groups
 - Elastic IPs

Currently creating AMI ami-0f1dd3b2d557b54ff from instance i-09f411274a2c4f9e6. Check that the AMI status is 'Available' before deleting the instance or carrying out other actions related to this AMI.

Instances (1/7) Info Last updated less than a minute ago [Connect](#) [Instance state](#) [Actions](#) [Launch instances](#)

Find Instance by attribute or tag (case-sensitive) All states

Instance state = running Clear filters

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Avail
kanakaManoj-TM-BE-WUS2-01	i-0e9c08584b6eb6163	Running	t2.micro	2/2 checks passed	View alarms +	us-w
Amol-TM1	i-04ef5e94c6ae8851f	Running	t2.micro	2/2 checks passed	View alarms +	us-w
TravelMemory_Ranya	i-053d63b00d85d995d	Running	t2.micro	2/2 checks passed	View alarms +	us-w
kevink	i-0240076a01697f2f8	Running	t2.micro	2/2 checks passed	View alarms +	us-w

i-09f411274a2c4f9e6 (kanakaManoj-TM-FE-WUS2-01)

[Details](#) [Status and alarms](#) [Monitoring](#) [Security](#) [Networking](#) [Storage](#) [Tags](#)

Instance summary Info

Instance ID i-09f411274a2c4f9e6	Public IPv4 address 44.246.191.147 open address	Private IPv4 addresses 172.31.36.169
IPv6 address -	Instance state Running	Public DNS ec2-44-246-191-147.us-west-2.compute.amazonaws.com open address
Hostname type IP name: ip-172-31-36-169.us-west-2.compute.internal	Private IP DNS name (IPv4 only) ip-172-31-36-169.us-west-2.compute.internal	

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8. Creating Target Groups for Frontend and Backend

Creating Backend 02

Search results

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Selected AMI: (ami-00ba05f9b42ff8103) (My AMIs)

kanakaManoj-TM-BE-WUS2-02

Quick Start AMIs (0) | **My AMIs (17)** | AWS Marketplace AMIs (31) | Community AMIs (500)

Refine results

Clear all filters

Owner

Owned by me
 Shared with me


OS category

All Linux/Unix
 All Windows

Publish date range

Start date
End date

kanakaManoj-TM-BE-WUS2-02 (1 filtered, 17 unfiltered)

 **kanakaManoj-TM-BE-WUS2-02**
ami-0f586bbb5438f023b
for 02
OwnerAlias: - Platform: - Architecture: x86_64 Owner: 975050024946 Publish date: 2025-06-14 Root device type: ebs Virtualization: hvm
ENA enabled: Yes

Select

The following results for "kanakaManoj-TM-BE-WUS2-02" were found in other categories

- 31 results in AWS Marketplace AMIs
AWS Marketplace AMIs are AMIs that are published by AWS & trusted third-parties
- 500+ results in Community AMIs
Community AMIs are AMIs that are shared by the general AWS community

Search results

Name and tags info

Name
kanakaManoj-TM-BE-WUS2-02

Application and OS Images (Amazon Machine Image) info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

AMI from catalog | Recents | My AMIs | Quick Start

Name
kanakaManoj-TM-BE-WUS2-02

Description
for 02

Image ID
ami-0f586bbb5438f023b

Username
root (Check with the AMI provider.)

Catalog	Published	Architecture	Virtualization	Root device type	ENA Enabled
My AMIs	2025-06-14T11:41:02.000Z	x86_64	hvm	ebs	Yes

Boot mode
uefi-preferred

Summary

Number of instances
1

Software Image (AMI)
kanakaManoj-TM-BE-WUS2-022
ami-0f586bbb5438f023b

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where t2.micro isn't available) when used with free tier AMIs, 750 hours per month of public IPv4 address usage, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel | **Launch instance** | Preview code

us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#LaunchInstances:

Search results

Success
Successfully initiated launch of instance (i-00a74a3b2dcea13c)

Launch log

Next Steps
What would you like to do next with this instance, for example "create alarm" or "create backup"

Create billing and free tier usage alerts
To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.
[Create billing alerts](#)

Connect to your instance
Once your instance is running, log into it from your local computer.
[Connect to instance](#)
[Learn more](#)

Connect an RDS database
Configure the connection between an EC2 instance and a database to allow traffic flow between them.
[Connect an RDS database](#)
[Create a new RDS database](#)
[Learn more](#)

Create EBS snapshot policy
Create a policy that automates the creation, retention, and deletion of EBS snapshots
[Create EBS snapshot policy](#)

Manage detailed monitoring
Enable or disable detailed monitoring for the instance. If you enable detailed monitoring, the Amazon EC2 console displays monitoring graphs with a 1-minute period.

Create Load Balancer
Create an application, network gateway or classic Elastic Load Balancer
[Create Load Balancer](#)

Create AWS budget
AWS Budgets allows you to create budgets, forecast spend, and take action on your costs and usage from a single location.
[Create AWS budget](#)

Manage CloudWatch alarms
Create or update Amazon CloudWatch alarms for the instance.
[Manage CloudWatch alarms](#)

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Create front end 02

EC2 > Instances > Launch an instance

Launch an instance Info

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags Info

Name
kanakaManoj-TM-FE-WUS2-02 [Add additional tags](#)

Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Search our full catalog including 1000s of application and OS images

Recents **My AMIs** Quick Start

Owned by me Shared with me

[Browse more AMIs](#)
Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

kanakaManoj-TM-FE-WUS2-022
ami-0f1dd3b2d557b54ff
2025-06-14T11:43:03.000Z Virtualization: hvm ENA enabled: true Root device type: ebs Boot mode: uefi-preferred

Summary

Number of instances Info
1

Software Image (AMI)
from front end
ami-0f1dd3b2d557b54ff

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where t2.micro isn't available) when used with free tier AMIs, 750 hours per month of public IPv4 address usage, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

[Cancel](#) [Launch instance](#) [Preview code](#)

aws [Search] [Option+S] United States (Oregon) garapati.mano@gmail.com @ 9750-5002-4946

EC2 > Instances > Launch an instance

vpc-0321f38a7b594180d | default

Subnet | Info

No preference (Default subnet in any availability zone)

Auto-assign public IP | Info

Enable

Additional charges apply when outside of free tier allowance

Firewall (security groups) | Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group Select existing security group

Common security groups | Info

Select security groups

launch-wizard-95 sg-0cdf4ead214da1b6c X

VPC: vpc-0321f38a7b594180d

Compare security group rules

Security groups that you add or remove here will be added to or removed from all your network interfaces.

▼ Configure storage | Info Advanced

1x 8 GiB gp3 Root volume, 3000 IOPS, Not encrypted

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage X

Add new volume

The selected AMI contains instance store volumes, however the instance does not allow any instance store volumes. None of the instance store volumes from the AMI will be accessible from the instance

▼ Summary

Number of instances | Info

1

Software Image (AMI)

from front end
ami-0f1dd3b2d557b54ff

Virtual server type (instance type)

t2.micro

Firewall (security group)

launch-wizard-95

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where t2.micro isn't available) when used with free tier AMIs, 750 hours per month of public IPv4 address usage, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet. X

Cancel Launch instance

[Preview code](#)

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us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#LaunchInstances:

aws [Search] [Option+S] United States (Oregon) garapati.mano@gmail.com @ 9750-5002-4946

EC2 > Instances > Launch an instance

Success

Successfully initiated launch of instance (i-081a451252c33b06c)

► Launch log

Next Steps

What would you like to do next with this instance, for example "create alarm" or "create backup"

Create billing and free tier usage alerts

To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.

Create billing alerts

Connect to your instance

Once your instance is running, log into it from your local computer.

Connect to instance

Learn more

Connect an RDS database

Configure the connection between an EC2 instance and a database to allow traffic flow between them.

Connect an RDS database

Create a new RDS database

Learn more

Create EBS snapshot policy

Create a policy that automates the creation, retention, and deletion of EBS snapshots

Create EBS snapshot policy

Manage detailed monitoring

Enable or disable detailed monitoring for the instance. If you enable detailed monitoring, the Amazon EC2 console displays monitoring graphs with a 1-minute period.

Create Load Balancer

Create an application, network gateway or classic Elastic Load Balancer

Create Load Balancer

Create AWS budget

AWS Budgets allows you to create budgets, forecast spend, and take action on your costs and usage from a single location.

Create AWS budget

Manage CloudWatch alarms

Create or update Amazon CloudWatch alarms for the instance.

Manage CloudWatch alarms

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Target group from FE

EC2 > Target groups > Create target group

Step 1 Specify group details
Step 2 Register targets

Specify group details

Your load balancer routes requests to the targets in a target group and performs health checks on the targets.

Basic configuration

Settings in this section can't be changed after the target group is created.

Choose a target type

- Instances**
 - Supports load balancing to instances within a specific VPC.
 - Facilitates the use of [Amazon EC2 Auto Scaling](#) to manage and scale your EC2 capacity.
- IP addresses**
 - Supports load balancing to VPC and on-premises resources.
 - Facilitates routing to multiple IP addresses and network interfaces on the same instance.
 - Offers flexibility with microservice based architectures, simplifying inter-application communication.
 - Supports IPv6 targets, enabling end-to-end IPv6 communication, and IPv4-to-IPv6 NAT.
- Lambda function**
 - Facilitates routing to a single Lambda function.
 - Accessible to Application Load Balancers only.
- Application Load Balancer**
 - Offers the flexibility for a Network Load Balancer to accept and route TCP requests within a specific VPC.
 - Facilitates using static IP addresses and PrivateLink with an Application Load Balancer.

Target group name

EC2 > Target groups > Create target group

- IP addresses**
 - Supports load balancing to VPC and on-premises resources.
 - Facilitates routing to multiple IP addresses and network interfaces on the same instance.
 - Offers flexibility with microservice based architectures, simplifying inter-application communication.
 - Supports IPv6 targets, enabling end-to-end IPv6 communication, and IPv4-to-IPv6 NAT.
- Lambda function**
 - Facilitates routing to a single Lambda function.
 - Accessible to Application Load Balancers only.
- Application Load Balancer**
 - Offers the flexibility for a Network Load Balancer to accept and route TCP requests within a specific VPC.
 - Facilitates using static IP addresses and PrivateLink with an Application Load Balancer.

Target group name

kanakaManoj-FE-target-group

A maximum of 32 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen.

Protocol
Protocol for load balancer-to-target communication. Can't be modified after creation.

HTTP

Port
Port number where targets receive traffic. Can be overridden for individual targets during registration.

80

1-65535

IP address type
Only targets with the indicated IP address type can be registered to this target group.

- IPv4**
Each instance has a default network interface (eth0) that is assigned the primary private IPv4 address. The instance's primary private IPv4 address is the one that will be applied to the target.
- IPv6**
Each instance you register must have an assigned primary IPv6 address. This is configured on the instance's default network interface (eth0). [Learn more](#)

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us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#CreateTargetGroup

EC2 > Target groups > Create target group

Target group name

 A maximum of 32 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen.

Protocol
 Protocol for load balancer-to-target communication. Can't be modified after creation.

Port
 Port number where targets receive traffic. Can be overridden for individual targets during registration.

 1-65535

IP address type
 Only targets with the indicated IP address type can be registered to this target group.

IPv4
 Each instance has a default network interface (eth0) that is assigned the primary private IPv4 address. The instance's primary private IPv4 address is the one that will be applied to the target.

IPv6
 Each instance you register must have an assigned primary IPv6 address. This is configured on the instance's default network interface (eth0). [Learn more](#)

VPC
 Select the VPC with the instances that you want to include in the target group. Only VPCs that support the IP address type selected above are available in this list.

vpc-0321f38a7b594180d
 IPv4 VPC CIDR: 172.31.0.0/16

Protocol version

HTTP1
 Send requests to targets using HTTP/1.1. Supported when the request protocol is HTTP/1.1 or HTTP/2.

HTTP2
 Send requests to targets using HTTP/2. Supported when the request protocol is HTTP/2 or gRPC, but gRPC-specific features are not available.

gRPC
 Send requests to targets using gRPC. Supported when the request protocol is gRPC.

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EC2 > Target groups > kanakaManoj-FE-target-group > Register targets

Register targets
 Select instances, specify ports, and add the instances to the list of pending targets. Repeat to add additional combinations of instances and ports to the list of pending targets. Once you are satisfied with your selections, click Register pending targets.

Available instances (2/10)

2 matches

<input checked="" type="checkbox"/>	Instance ID	Name	State	Security groups	Zone	Private IPv4 address
<input checked="" type="checkbox"/>	i-081a451252c33b06c	kanakaManoj-TM-FE-WUS2-02	Running	launch-wizard-95	us-west-2a	172.31.38.206
<input checked="" type="checkbox"/>	i-09f411274a2c4f9e6	kanakaManoj-TM-FE-WUS2-01	Running	launch-wizard-95	us-west-2a	172.31.36.169

2 selected

Ports for the selected instances
 Ports for routing traffic to the selected instances.

1-65535 (separate multiple ports with commas)

Review targets

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us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#TargetGroup:targetGroupArn=arn:aws:elasticloadbalancing:us-west-2:97505002494...

EC2 > Target groups > kanakaManoj-FE-target-group

2 targets registered successfully to kanakaManoj-FE-target-group.

kanakaManoj-FE-target-group

Details
 arn:aws:elasticloadbalancing:us-west-2:975050024946:targetgroup/kanakaManoj-FE-target-group/83ce69f676194a90

Target type Instance	Protocol : Port HTTP: 80	Protocol version HTTP1	VPC vpc-0321f38a7b594180d
IP address type IPv4	Load balancer None associated		

2 Total targets	0 Healthy	0 Unhealthy	2 Unused	0 Initial	0 Draining
-----------------	-----------	-------------	----------	-----------	------------

0 Anomalous

Distribution of targets by Availability Zone (AZ)
 Select values in this table to see corresponding filters applied to the Registered targets table below.

Registered targets (2) [Info](#) [Anomaly mitigation: Not applicable](#) [Deregister](#) [Register targets](#)

Target groups route requests to individual registered targets using the protocol and port number specified. Health checks are performed on all registered targets according to the target group's health check settings. Anomaly detection is automatically applied to HTTP/HTTPS target groups with at least 3 healthy targets.

Filter targets

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us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#TargetGroup:targetGroupArn=arn:aws:elasticloadbalancing:us-west-2:97505002494...

EC2 > Target groups > kanakaManoj-FE-target-group

Successfully created the target group: kanakaManoj-FE-target-group. Anomaly detection is automatically applied to all registered targets. Results can be viewed in the Targets tab.

kanakaManoj-FE-target-group

Details
 arn:aws:elasticloadbalancing:us-west-2:975050024946:targetgroup/kanakaManoj-FE-target-group/83ce69f676194a90

Target type Instance	Protocol : Port HTTP: 80	Protocol version HTTP1	VPC vpc-0321f38a7b594180d
IP address type IPv4	Load balancer None associated		

0 Total targets	0 Healthy	0 Unhealthy	0 Unused	0 Initial	0 Draining
-----------------	-----------	-------------	----------	-----------	------------

0 Anomalous

Registered targets (0) [Info](#) [Anomaly mitigation: Not applicable](#) [Deregister](#) [Register targets](#)

Target groups route requests to individual registered targets using the protocol and port number specified. Health checks are performed on all registered targets according to the target group's health check settings. Anomaly detection is automatically applied to HTTP/HTTPS target groups with at least 3 healthy targets.

Filter targets

Instance ID	Name	Port	Zone	Health status	Health status details	Admini...
-------------	------	------	------	---------------	-----------------------	-----------

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The screenshot shows the AWS Management Console interface for an Elastic Load Balancing Target Group. The breadcrumb navigation indicates the path: EC2 > Target groups > kanakaManoj-FE-target-group. The main content area displays the following configuration details:

- Target type:** Instance
- Protocol : Port:** HTTP: 80
- Protocol version:** HTTP1
- VPC:** vpc-0321f38a7b594180d
- IP address type:** IPv4
- Load balancer:** None associated

Summary statistics for the target group:

- Total targets: 2
- Healthy: 0
- Unhealthy: 0
- Unused: 2
- Initial: 0
- Draining: 0
- Anomalous: 0

Below the summary, there is a section for "Distribution of targets by Availability Zone (AZ)" with a note to select values in the table to see corresponding filters. The "Targets" tab is active, showing "Registered targets (2)". A note indicates that anomaly mitigation is not applicable. A table lists the registered targets:

Instance ID	Name	Port	Zone	Health status	Health status details
i-081a451252c33b06c	kanakaManoj-TM-FE-WUS2-02	80	us-west-2a (us...)	Unused	Target group is not co...
i-09f411274a2c4f9e6	kanakaManoj-TM-FE-WUS2-01	80	us-west-2a (us...)	Unused	Target group is not co...

9. Load Balancer Configuration for Frontend and Backend

How to configure AWS ALBs for both frontend and backend.

Target group for BE

us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#CreateTargetGroup: [Option+S] United States (Oregon) garapati.manoj@gmail.com @ 9750-5002-4946

EC2 > Target groups > Create target group

Step 1
Specify group details
Step 2
Register targets

Specify group details

Your load balancer routes requests to the targets in a target group and performs health checks on the targets.

Basic configuration

Settings in this section can't be changed after the target group is created.

Choose a target type

- Instances**
 - Supports load balancing to instances within a specific VPC.
 - Facilitates the use of [Amazon EC2 Auto Scaling](#) to manage and scale your EC2 capacity.
- IP addresses**
 - Supports load balancing to VPC and on-premises resources.
 - Facilitates routing to multiple IP addresses and network interfaces on the same instance.
 - Offers flexibility with microservice based architectures, simplifying inter-application communication.
 - Supports IPv6 targets, enabling end-to-end IPv6 communication, and IPv4-to-IPv6 NAT.
- Lambda function**
 - Facilitates routing to a single Lambda function.
 - Accessible to Application Load Balancers only.
- Application Load Balancer**
 - Offers the flexibility for a Network Load Balancer to accept and route TCP requests within a specific VPC.
 - Facilitates using static IP addresses and PrivateLink with an Application Load Balancer.

Target group name

kanakaManoj-BE-target-group

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us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#CreateTargetGroup: [Option+S] United States (Oregon) garapati.manoj@gmail.com @ 9750-5002-4946

EC2 > Target groups > Create target group

Target group name

kanakaManoj-BE-target-group

A maximum of 32 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen.

Protocol
Protocol for load balancer-to-target communication. Can't be modified after creation.

HTTP

Port
Port number where targets receive traffic. Can be overridden for individual targets during registration.

3000
1-65535

IP address type
Only targets with the indicated IP address type can be registered to this target group.

- IPv4**
Each instance has a default network interface (eth0) that is assigned the primary private IPv4 address. The instance's primary private IPv4 address is the one that will be applied to the target.
- IPv6**
Each instance you register must have an assigned primary IPv6 address. This is configured on the instance's default network interface (eth0). [Learn more](#)

VPC
Select the VPC with the instances that you want to include in the target group. Only VPCs that support the IP address type selected above are available in this list.

default
vpc-0321f38a7b594180d
IPv4 VPC CIDR: 172.31.0.0/16

default

Protocol version

- HTTP1**
Send requests to targets using HTTP/1.1. Supported when the request protocol is HTTP/1.1 or HTTP/2.
- HTTP2**
Send requests to targets using HTTP/2. Supported when the request protocol is HTTP/2 or gRPC, but gRPC-specific features are not available.
- gRPC**
Send requests to targets using gRPC. Supported when the request protocol is gRPC.

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aws [Search] [Option+S] United States (Oregon) garapati.manoj@gmail.com @ 9750-5002-4946

EC2 > Target groups > Create target group

Send requests to targets using gRPC. Supported when the request protocol is gRPC.

Health checks

The associated load balancer periodically sends requests, per the settings below, to the registered targets to test their status.

Health check protocol

Health check path
 Use the default path of "/" to perform health checks on the root, or specify a custom path if preferred.

 Up to 1024 characters allowed.

▶ **Advanced health check settings**

Attributes

ⓘ Certain default attributes will be applied to your target group. You can view and edit them after creating the target group.

▶ **Tags - optional**
 Consider adding tags to your target group. Tags enable you to categorize your AWS resources so you can more easily manage them.

Cancel **Next**

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us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#CreateTargetGroup: Finish update

aws [Search] [Option+S] United States (Oregon) garapati.manoj@gmail.com @ 9750-5002-4946

EC2 > Target groups > Create target group

Step 1 Specify group details
 Step 2 **Register targets**

Register targets

This is an optional step to create a target group. However, to ensure that your load balancer routes traffic to this target group you must register your targets.

Available instances (4/10)

2 matches

<input checked="" type="checkbox"/>	Instance ID	Name	State	Security groups	Zone
<input checked="" type="checkbox"/>	i-00a74a3b2dceea13c	kanakaManoj-TM-BE-WUS2-02	Running	kanaka-BE-launch-wizard-96	us-west-2a
<input checked="" type="checkbox"/>	i-0e9c08584b6eb6163	kanakaManoj-TM-BE-WUS2-01	Running	kanaka-BE-launch-wizard-96	us-west-2a

4 selected

Ports for the selected instances
 Ports for routing traffic to the selected instances.

 1-65535 (separate multiple ports with commas)

Review targets

Targets (0)

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aws Search [Option+S] United States (Oregon) garapati.manoj@gmail.com @ 9750-5002-4946

EC2 > Target groups > Create target group

Available instances (2/10)

Filter instances

Instance ID	Name	State	Security groups	Zone
<input type="checkbox"/> i-081a451252c33b06c	kanakaManoj-TM-FE-WUS2-02	Running	launch-wizard-95	us-west-2a
<input checked="" type="checkbox"/> i-00a74a3b2dcea13c	kanakaManoj-TM-BE-WUS2-02	Running	kanaka-BE-launch-wizard-96	us-west-2a
<input type="checkbox"/> i-0f248b3f1b0e9f5a7	test	Running	launch-wizard-81	us-west-2a
<input type="checkbox"/> i-09f411274a2c4f9e6	kanakaManoj-TM-FE-WUS2-01	Running	launch-wizard-95	us-west-2a
<input type="checkbox"/> i-0240076a01697f2f8	kevink	Running	launch-wizard-103	us-west-2a
<input type="checkbox"/> i-053d63b00d85d995d	TravelMemory_Ranya	Running	launch-wizard-102	us-west-2a
<input type="checkbox"/> i-04ef5e94c6ae8851f	Amol-TM1	Running	launch-wizard-98	us-west-2a
<input type="checkbox"/> i-05893caa635e4dc3f	Divyam-TM-BE	Running	launch-wizard-99	us-west-2a
<input checked="" type="checkbox"/> i-0e9c08584b6eb6163	kanakaManoj-TM-BE-WUS2-01	Running	kanaka-BE-launch-wizard-96	us-west-2a
<input type="checkbox"/> i-08aa8de9c3162c005	travel-memory-glenv4	Running	launch-wizard-90	us-west-2a

2 selected

Ports for the selected instances
Ports for routing traffic to the selected instances.

3000

1-65535 (separate multiple ports with commas)

Include as pending below

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us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#CreateTargetGroup: Finish update

aws Search [Option+S] United States (Oregon) garapati.manoj@gmail.com @ 9750-5002-4946

EC2 > Target groups > Create target group

i-08aa8de9c3162c005 travel-memory-glenv4 Running launch-wizard-90 us-west-2a

0 selected

Ports for the selected instances
Ports for routing traffic to the selected instances.

3000

1-65535 (separate multiple ports with commas)

Include as pending below

2 selections are now pending below. Include more or register targets when ready.

Review targets

Targets (2) Remove all pending

Filter targets Show only pending

Instance ID	Name	Port	State	Security groups	Zone	Private IPv4 address
i-00a74a3b2dcea13c	kanakaManoj-TM-BE-WUS2-02	3000	Running	kanaka-BE-launch-wizard-96	us-west-2a	172.31.41.112
i-0e9c08584b6eb6163	kanakaManoj-TM-BE-WUS2-01	3000	Running	kanaka-BE-launch-wizard-96	us-west-2a	172.31.38.123

2 pending

Cancel Previous Create target group

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us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#TargetGroup:targetGroupArn=arn:aws:elasticloadbalancing:us-west-2:97505002494...

EC2 > Target groups > kanakaManoj-BE-target-group

Capacity Reservations

▼ Images
AMIs
AMI Catalog

▼ Elastic Block Store
Volumes
Snapshots
Lifecycle Manager

▼ Network & Security
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces

▼ Load Balancing
Load Balancers
Target Groups
Trust Stores

▼ Auto Scaling
Auto Scaling Groups

Settings

Target type: Instance
Protocol : Port: HTTP: 3000
IP address type: IPv4
Load balancer: None associated
Protocol version: HTTP1
VPC: vpc-0321f38a7b594180d

2 Total targets
0 Anomalous
0 Healthy
0 Unhealthy
2 Unused
0 Initial
0 Draining

► Distribution of targets by Availability Zone (AZ)
Select values in this table to see corresponding filters applied to the Registered targets table below.

Targets | Monitoring | Health checks | Attributes | Tags

Registered targets (2) info
Anomaly mitigation: Not applicable
Deregister | Register targets

Target groups route requests to individual registered targets using the protocol and port number specified. Health checks are performed on all registered targets according to the target group's health check settings. Anomaly detection is automatically applied to HTTP/HTTPS target groups with at least 3 healthy targets.

Filter targets

<input type="checkbox"/>	Instance ID	Name	Port	Zone	Health status	Health status details
<input type="checkbox"/>	i-00a74a3b2dceea13c	kanakaManoj-TM-BE-WUS2-02	3000	us-west-2a (us...)	Unused	Target group is not co...
<input type="checkbox"/>	i-0e9c08584b6eb6163	kanakaManoj-TM-BE-WUS2-01	3000	us-west-2a (us...)	Unused	Target group is not co...

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EC2 > Load balancers > Create Application Load Balancer

Listeners and routing info
A listener is a process that checks for connection requests using the port and protocol you configure. The rules that you define for a listener determine how the load balancer routes requests to its registered targets.

▼ Listener HTTP:80
Remove

Protocol: HTTP, Port: 80
Default action: Forward to kanakaManoj-BE-target-group (HTTP)

Listener tags - optional
Consider adding tags to your listener. Tags enable you to categorize your AWS resources so you can more easily manage them.
Add listener tag (You can add up to 50 more tags.)

▼ Listener HTTPS:443
Remove

Protocol: HTTPS, Port: 443
Default action: Forward to kanakaManoj-BE-target-group (HTTP)

Listener tags - optional
Consider adding tags to your listener. Tags enable you to categorize your AWS resources so you can more easily manage them.
Add listener tag (You can add up to 50 more tags.)

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us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#CreateALBWizard:

EC2 > Load balancers > Create Application Load Balancer

The certificate used if a client connects without SNI protocol, or if there are no matching certificates. You can source this certificate from AWS Certificate Manager (ACM), Amazon Identity and Access Management (IAM), or import a certificate. This certificate will automatically be added to your listener certificate list.

Certificate source

From ACM From IAM Import certificate

Certificate (from ACM)

The selected certificate will be applied as the default SSL/TLS server certificate for this load balancer's secure listeners.

kmgmtm.info
8b2db819-1c42-4c9a-bfb2-142430e5c065

[Request new ACM certificate](#)

Client certificate handling [Info](#)

Client certificates are used to make authenticated requests to remote servers. [Learn more](#)

Mutual authentication (mTLS)
Mutual TLS (Transport Layer Security) authentication offers two-way peer authentication. It adds a layer of security over TLS and allows your services to verify the client that's making the connection.

Load balancer tags - optional

Consider adding tags to your load balancer. Tags enable you to categorize your AWS resources so you can more easily manage them. The 'Key' is required, but 'Value' is optional. For example, you can have Key = production-webserver, or Key = webserver, and Value = production.

Optimize with service integrations - optional [Info](#)

Optimize your load balancing architecture by integrating AWS services with this load balancer at launch. You can also add these and other services after your load balancer is created by reviewing the load balancer's "Integrations" tab.

Amazon CloudFront + AWS Web Application Firewall (WAF) - new [Info](#)

Optimizes: Performance, Availability, Security

Apply application layer acceleration and security protections - in front of the load balancer
Automatically configures and creates a CloudFront distribution with the basic recommended AWS WAF security protections, and associates it to your load balancer. [Additional charges apply](#)

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us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#CreateALBWizard:

EC2 > Load balancers > Create Application Load Balancer

Review and confirm your configurations. [Estimate cost](#)

<p>Basic configuration Edit</p> <p>Name: KanakaManoj-BE-LB Scheme: Internet-facing IP address type: IPv4</p>	<p>Network mapping Edit</p> <p>VPC: vpc-0321f38a7b594180d Public IPv4 IPAM pool: - Availability Zones and subnets:</p> <ul style="list-style-type: none"> us-west-2a subnet-06bd72b2e4cb41d10 private-subnet us-west-2b subnet-03ca36de9a927fe8e private-subnet 	<p>Security groups Edit</p> <p>default sg-057f0e6c8849c7ff8</p>	<p>Listeners and routing Edit</p> <p>HTTP:80 Target group: kanakaManoj-BE-target-group HTTPS:443 Target group: kanakaManoj-BE-target-group</p> <p>Secure listener settings:</p> <ul style="list-style-type: none"> ELBSecurityPolicy-TLS13-1-2-Res-2021-06 kmgmtm.info From ACM
<p>Service integrations Edit</p> <p>Amazon CloudFront + AWS Web Application Firewall (WAF): - AWS WAF: - AWS Global Accelerator: -</p>		<p>Tags Edit</p> <p>-</p>	

Attributes

Certain default attributes will be applied to your load balancer. You can view and edit them after creating the load balancer.

Creation workflow and status

Server-side tasks and status

After completing and submitting the above steps, all server-side tasks and their statuses become available for monitoring.

[Cancel](#) [Create load balancer](#)

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aws Search [Option+S] United States (Oregon) garapati.manoj@gmail.com @ 9750-5002-4946

EC2 > Load balancers > KanakaManoj-BE-LB

Capacity Reservations

- Images
 - AMIs
 - AMI Catalog
- Elastic Block Store
 - Volumes
 - Snapshots
 - Lifecycle Manager
- Network & Security
 - Security Groups
 - Elastic IPs
 - Placement Groups
 - Key Pairs
 - Network Interfaces
- Load Balancing
 - Load Balancers
 - Target Groups
 - Trust Stores
- Auto Scaling
 - Auto Scaling Groups

Settings

✔ Successfully created load balancer: **KanakaManoj-BE-LB**
It might take a few minutes for your load balancer to fully set up and route traffic. Targets will also take a few minutes to complete the registration process and pass initial health checks.

ℹ Application Load Balancers now support public IPv4 IP Address Management (IPAM)
You can get started with this feature by configuring IP pools in the Network mapping section. Edit IP pools

KanakaManoj-BE-LB Actions

Details

Load balancer type Application	Status Provisioning	VPC vpc-0321f38a7b594180d	Load balancer IP address type IPv4
Scheme Internet-facing	Hosted zone Z1H1FL5HAB5F5	Availability Zones subnet-03ca36de9a927fe8e us-west-2b (usw2-az1) subnet-06bd72b2e4cb41d10 us-west-2a (usw2-az2)	Date created June 14, 2025, 18:22 (UTC+05:30)

Load balancer ARN
arn:aws:elasticloadbalancing:us-west-2:975050024946:loadbalancer/app/KanakaManoj-BE-LB/b2845a6e76b312d2

DNS name info
KanakaManoj-BE-LB-1584194433.us-west-2.elb.amazonaws.com (A Record)

[Listeners and rules](#) | [Network mapping](#) | [Resource map](#) | [Security](#) | [Monitoring](#) | [Integrations](#) | [Attributes](#) | [Capacity](#)

Listeners and rules (2) Info Manage rules Manage listener Add listener

Creating LB FE

aws Search [Option+S] United States (Oregon) garapati.manoj@gmail.com @ 9750-5002-4946

EC2 > Load balancers > Create Application Load Balancer

ℹ Application Load Balancers now support public IPv4 IP Address Management (IPAM)
You can get started with this feature by configuring IP pools in the Network mapping section.

Create Application Load Balancer Info

The Application Load Balancer distributes incoming HTTP and HTTPS traffic across multiple targets such as Amazon EC2 instances, microservices, and containers, based on request attributes. When the load balancer receives a connection request, it evaluates the listener rules in priority order to determine which rule to apply, and if applicable, it selects a target from the target group for the rule action.

How Application Load Balancers work

Basic configuration

Load balancer name
Name must be unique within your AWS account and can't be changed after the load balancer is created.

KanakaManoj-FE-LB

A maximum of 32 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen.

Scheme Info
Scheme can't be changed after the load balancer is created.

Internet-facing

- Serves internet-facing traffic.
- Has public IP addresses.
- DNS name resolves to public IPs.
- Requires a public subnet.

Internal

- Serves internal traffic.
- Has private IP addresses.
- DNS name resolves to private IPs.
- Compatible with the IPv4 and Dualstack IP address types.

Load balancer IP address type Info
Select the front-end IP address type to assign to the load balancer. The VPC and subnets mapped to this load balancer must include the selected IP address types. Public IPv4 addresses have an additional cost.

IPv4
Includes only IPv4 addresses.

Dualstack
Includes IPv4 and IPv6 addresses.

aws Search [Option+S] United States (Oregon) garapati.manoj@gmail.com @ 9750-5002-4946

EC2 > Load balancers > Create Application Load Balancer

How Application Load Balancers work

Basic configuration

Load balancer name
Name must be unique within your AWS account and can't be changed after the load balancer is created.

KanakaManoj-FE-LB

A maximum of 32 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen.

Scheme | Info
Scheme can't be changed after the load balancer is created.

Internet-facing

- Serves internet-facing traffic.
- Has public IP addresses.
- DNS name resolves to public IPs.
- Requires a public subnet.

Internal

- Serves internal traffic.
- Has private IP addresses.
- DNS name resolves to private IPs.
- Compatible with the IPv4 and Dualstack IP address types.

Load balancer IP address type | Info
Select the front-end IP address type to assign to the load balancer. The VPC and subnets mapped to this load balancer must include the selected IP address types. Public IPv4 addresses have an additional cost.

IPv4
Includes only IPv4 addresses.

Dualstack
Includes IPv4 and IPv6 addresses.

Dualstack without public IPv4
Includes a public IPv6 address, and private IPv4 and IPv6 addresses. Compatible with internet-facing load balancers only.

Network mapping

The load balancer routes traffic to targets in the selected subnets, and in accordance with your IP address settings.

VPC | Info

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aws Search [Option+S] United States (Oregon) garapati.manoj@gmail.com @ 9750-5002-4946

EC2 > Load balancers > Create Application Load Balancer

Listeners and routing

A listener is a process that checks for connection requests using the port and protocol you configure. The rules that you define for a listener determine how the load balancer routes requests to its registered targets.

▼ Listener HTTP:80 Remove

Protocol : HTTP **Port** : 80
1-65535

Default action | Info
Forward to kanakaManoj-FE-target-group HTTP
Target type: Instance, IPv4
[Create target group](#)

Listener tags - optional
Consider adding tags to your listener. Tags enable you to categorize your AWS resources so you can more easily manage them.

[Add listener tag](#)
You can add up to 50 more tags.

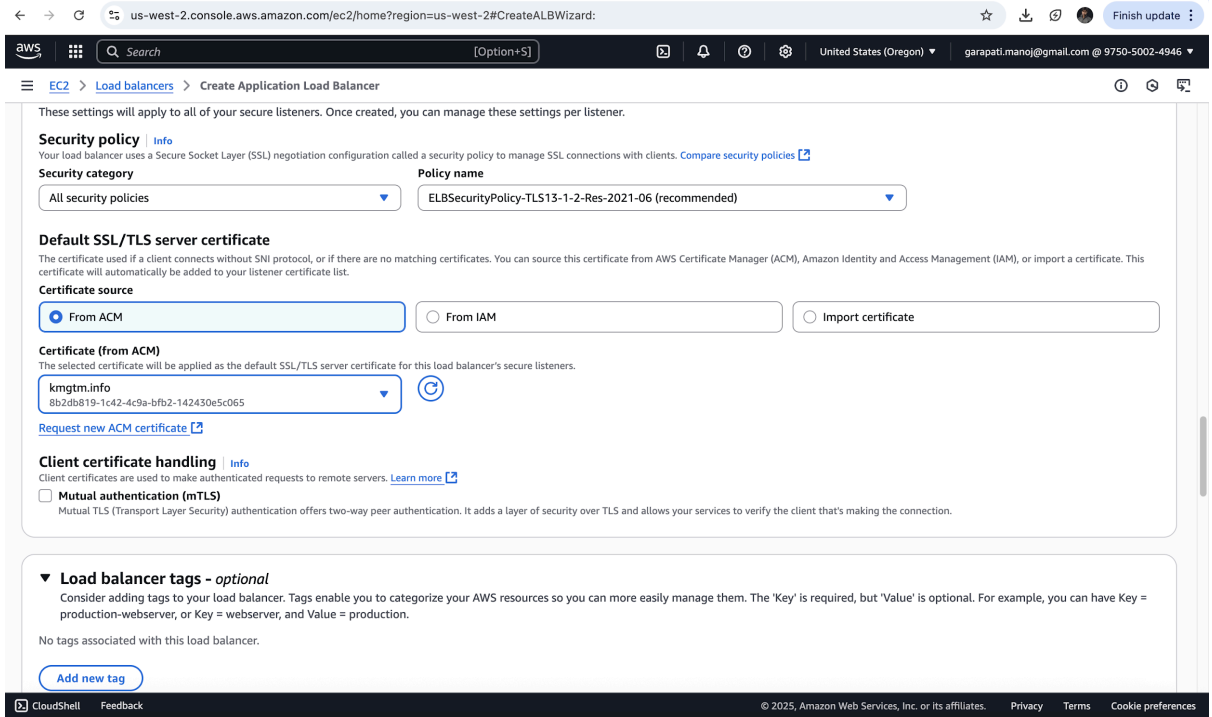
▼ Listener HTTPS:443 Remove

Protocol : HTTPS **Port** : 443
1-65535

Default action | Info
Forward to KanakaManoj-FE-target-group HTTP
Target type: Instance, IPv4
[Create target group](#)

Listener tags - optional
Consider adding tags to your listener. Tags enable you to categorize your AWS resources so you can more easily manage them.

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10. Domain and DNS Setup

Details on GoDaddy and Cloudflare domain configuration.

Created domain in godaddy

Step 10: Activate custom Domain in Cloud flare

Now removing the EC2 IPS in Cloudflare

dash.cloudflare.com/a0f3de9ba082428de111487f40d5a64b/kmgmtm.info/dns/records

Garapati.manoj@gmail.com's Account

Go to... Support + Add English

kmgmtm.info Active Star Free plan

Overview AI Audit (Beta) Analytics & Logs DNS **Records** Analytics Settings Email SSL/TLS Security Access Speed Caching Workers Routes Rules Error Pages (New) Collapse sidebar

Cancel Save

<input type="checkbox"/>	Type	Name	Content	Proxy status	TTL	Actions
<input type="checkbox"/>	A	api	34.213.25.19	Proxied	Auto	Edit
<input type="checkbox"/>	A	kmgmtm.info	44.246.191.147	Proxied	Auto	Edit
<input type="checkbox"/>	A	www	44.246.191.147	Proxied	Auto	Edit
<input type="checkbox"/>	CNAME	_4376253ac3eb...	_6c048c2f4779da41f...	DNS only	Auto	Edit

Cloudflare Nameservers
Every DNS zone on Cloudflare is assigned a set of Cloudflare-branded nameservers.

Type	Value
NS	autumn.ns.cloudflare.com
NS	henry.ns.cloudflare.com

Chat

And Pointing to LB

dash.cloudflare.com/a0f3de9ba082428de111487f40d5a64b/kmgmtm.info/dns/records

Garapati.manoj@gmail.com's Account

Go to... Support + Add English

kmgmtm.info Active Star Free plan

Overview AI Audit (Beta) Analytics & Logs DNS **Records** Analytics Settings Email SSL/TLS Security Access Speed Caching Workers Routes Rules Error Pages (New) Collapse sidebar

DNS documentation

Recommended steps to complete zone set-up [Hide](#)

✓ Add an MX record for your **root domain** so that mail can reach @kmgmtm.info addresses or [set up restrictive SPF, DKIM, and DMARC records](#) to prevent email spoofing. [New Alert](#)

DNS management for kmgmtm.info DNS Setup: Full [Import and Export](#) [Dashboard Display Settings](#)

Review, add, and edit DNS records. Edits will go into effect once saved.

Add filter Search DNS Records Search Add record

<input type="checkbox"/>	Type	Name	Content	Proxy status	TTL	Actions
<input type="checkbox"/>	CNAME	www	kanakamanoj-fe-lb-14...	Proxied	Auto	Edit
<input type="checkbox"/>	CNAME	kmgmtm.info	kanakamanoj-fe-lb-14...	Proxied	Auto	Edit
<input type="checkbox"/>	CNAME	api	kanakamanoj-be-lb-15...	Proxied	Auto	Edit
<input type="checkbox"/>	CNAME	_4376253ac3eb...	_6c048c2f4779da41f...	DNS only	Auto	Edit

Cloudflare Nameservers
Every DNS zone on Cloudflare is assigned a set of Cloudflare-branded nameservers.

Chat

11. HTTPS and SSL

Using Certbot and Let's Encrypt for enabling HTTPS.

Backend running with custom domain

```
aws Search [Option+S] United States (Oregon) garapati.manoj@gmail.com @ 9750-5002-4946

System information as of Sat Jun 14 05:50:37 UTC 2025
System load: 0.0          Processes: 106
Usage of /: 41.3% of 6.71GB  Users logged in: 0
Memory usage: 22%        IPv4 address for enX0: 172.31.38.123
Swap usage: 0%

* Ubuntu Pro delivers the most comprehensive open source security and
compliance features.

https://ubuntu.com/aws/pro

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

Last login: Sat Jun 14 05:50:37 2025 from 18.237.140.163
ubuntu@ip-172-31-38-123:~$ ls
TravelMemory
ubuntu@ip-172-31-38-123:~$ cd TravelMemory
ubuntu@ip-172-31-38-123:~/TravelMemory$ ls
LICENSE README.md azure-pipelines.yml backend frontend
ubuntu@ip-172-31-38-123:~/TravelMemory$ cd backend
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo certbot --nginx -d api.kmgmtm.info
Saving debug log to /var/log/letsencrypt/letsencrypt.log
Enter email address (used for urgent renewal and security notices)
(Enter 'c' to cancel): garapati.manoj@gmail.com

i-0e9c08584b6eb6163 (kanakaManoj-TM-BE-WUS2-01)
PublicIPs: 35.91.183.66 PrivateIPs: 172.31.38.123
```

```
aws Search [Option+S] United States (Oregon) garapati.manoj@gmail.com @ 9750-5002-4946

> Host: api.kmgmtm.info
> User-Agent: curl/8.5.0
> Accept: */*
* TLSv1.3 (IN), TLS handshake, Newsession Ticket (4):
* TLSv1.3 (IN), TLS handshake, Newsession Ticket (4):
* old SSL session ID is stale, removing
< HTTP/1.1 502 Bad Gateway
< Server: nginx/1.24.0 (Ubuntu)
< Date: Sat, 14 Jun 2025 06:39:38 GMT
< Content-Type: text/html
< Content-Length: 166
< Connection: keep-alive
<
<html>
<head><title>502 Bad Gateway</title></head>
<body>
<center><h1>502 Bad Gateway</h1></center>
<hr><center>nginx/1.24.0 (Ubuntu)</center>
</body>
</html>
* Connection #0 to host api.kmgmtm.info left intact
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ pm2 list

```

id	name	namespace	version	mode	pid	uptime	v	status	cpu	mem	user	watching
0	index	default	1.0.0	fork	3912	25m	1	online	0%	81.8mb	ubuntu	disabled
1	index	default	1.0.0	fork	18500	0s	1366	online	50%	13.4mb	ubuntu	disabled

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo cat /etc/nginx/sites-available/travelmemory-backend
server {
    listen 80;
    server_name api.kmgmtm.info;

    location / {
```

i-0e9c08584b6eb6163 (kanakaManoj-TM-BE-WUS2-01)
PublicIPs: 35.91.183.66 PrivateIPs: 172.31.38.123

Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.8.0-1029-aws x86_64)

* Documentation: <https://help.ubuntu.com>

* Management: <https://landscape.canonical.com>

* Support: <https://ubuntu.com/pro>

System information as of Sat Jun 14 05:50:37 UTC 2025

System load: 0.0 Processes: 106

Usage of /: 41.3% of 6.71GB Users logged in: 0

Memory usage: 22% IPv4 address for enX0: 172.31.38.123

Swap usage: 0%

* Ubuntu Pro delivers the most comprehensive open source security and compliance features.

<https://ubuntu.com/aws/pro>

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.

See <https://ubuntu.com/esm> or run: `sudo pro status`

Last login: Sat Jun 14 05:50:37 2025 from 18.237.140.163

ubuntu@ip-172-31-38-123:~\$ ls

TravelMemory

```
ubuntu@ip-172-31-38-123:~$ cd TravelMemory
```

```
ubuntu@ip-172-31-38-123:~/TravelMemory$ ls
```

```
LICENSE README.md azure-pipelines.yml backend frontend
```

```
ubuntu@ip-172-31-38-123:~/TravelMemory$ cd backend
```

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo certbot --nginx -d  
api.kmgtn.info
```

```
Saving debug log to /var/log/letsencrypt/letsencrypt.log
```

```
Enter email address (used for urgent renewal and security notices)
```

```
(Enter 'c' to cancel): garapati.manoj@gmail.com
```

```
-----  
Please read the Terms of Service at
```

```
https://letsencrypt.org/documents/LE-SA-v1.5-February-24-2025.pdf. You must  
agree in order to register with the ACME server. Do you agree?
```

```
-----  
(Y)es/(N)o: Y
```

```
-----  
Would you be willing, once your first certificate is successfully issued, to  
share your email address with the Electronic Frontier Foundation, a founding  
partner of the Let's Encrypt project and the non-profit organization that  
develops Certbot? We'd like to send you email about our work encrypting the web,  
EFF news, campaigns, and ways to support digital freedom.
```

```
-----  
(Y)es/(N)o: Y
```

```
Account registered.
```

Requesting a certificate for api.kmgmtm.info

Successfully received certificate.

Certificate is saved at: /etc/letsencrypt/live/api.kmgmtm.info/fullchain.pem

Key is saved at: /etc/letsencrypt/live/api.kmgmtm.info/privkey.pem

This certificate expires on 2025-09-12.

These files will be updated when the certificate renews.

Certbot has set up a scheduled task to automatically renew this certificate in the background.

Deploying certificate

Successfully deployed certificate for api.kmgmtm.info to /etc/nginx/sites-enabled/travelmemory

Congratulations! You have successfully enabled HTTPS on https://api.kmgmtm.info

If you like Certbot, please consider supporting our work by:

* Donating to ISRG / Let's Encrypt: <https://letsencrypt.org/donate>

* Donating to EFF: <https://eff.org/donate-le>

ubuntu@ip-172-31-38-123:~/TravelMemory/backend\$ sudo nginx -t

2025/06/14 06:39:10 [warn] 17348#17348: conflicting server name "api.kmgmtm.info" on 0.0.0.0:80, ignored

nginx: the configuration file /etc/nginx/nginx.conf syntax is ok

nginx: configuration file /etc/nginx/nginx.conf test is successful

ubuntu@ip-172-31-38-123:~/TravelMemory/backend\$ sudo systemctl reload nginx

ubuntu@ip-172-31-38-123:~/TravelMemory/backend\$ curl -v https://api.kmgmtm.info

* Host api.kmgm.info:443 was resolved.

* IPv6: (none)

* IPv4: 35.91.183.66

* Trying 35.91.183.66:443...

* Connected to api.kmgm.info (35.91.183.66) port 443

* ALPN: curl offers h2,http/1.1

* TLSv1.3 (OUT), TLS handshake, Client hello (1):

* CAfile: /etc/ssl/certs/ca-certificates.crt

* CApath: /etc/ssl/certs

* TLSv1.3 (IN), TLS handshake, Server hello (2):

* TLSv1.3 (IN), TLS handshake, Encrypted Extensions (8):

* TLSv1.3 (IN), TLS handshake, Certificate (11):

* TLSv1.3 (IN), TLS handshake, CERT verify (15):

* TLSv1.3 (IN), TLS handshake, Finished (20):

* TLSv1.3 (OUT), TLS change cipher, Change cipher spec (1):

* TLSv1.3 (OUT), TLS handshake, Finished (20):

* SSL connection using TLSv1.3 / TLS_AES_256_GCM_SHA384 / X25519 / id-ecPublicKey

* ALPN: server accepted http/1.1

* Server certificate:

* subject: CN=api.kmgm.info

* start date: Jun 14 05:40:18 2025 GMT

* expire date: Sep 12 05:40:17 2025 GMT

* subjectAltName: host "api.kmgm.info" matched cert's "api.kmgm.info"

* issuer: C=US; O=Let's Encrypt; CN=E6

* SSL certificate verify ok.

* Certificate level 0: Public key type EC/prime256v1 (256/128 Bits/secBits), signed using ecdsa-with-SHA384

* Certificate level 1: Public key type EC/secp384r1 (384/192 Bits/secBits), signed using sha256WithRSAEncryption

* Certificate level 2: Public key type RSA (4096/152 Bits/secBits), signed using sha256WithRSAEncryption

* using HTTP/1.x

> GET / HTTP/1.1

> Host: api.kmgmtm.info

> User-Agent: curl/8.5.0

> Accept: */*

>

* TLSv1.3 (IN), TLS handshake, Newsession Ticket (4):

* TLSv1.3 (IN), TLS handshake, Newsession Ticket (4):

* old SSL session ID is stale, removing

< HTTP/1.1 502 Bad Gateway

< Server: nginx/1.24.0 (Ubuntu)

< Date: Sat, 14 Jun 2025 06:39:38 GMT

< Content-Type: text/html

< Content-Length: 166

< Connection: keep-alive

<

<html>

<head><title>502 Bad Gateway</title></head>

<body>

<center><h1>502 Bad Gateway</h1></center>

<hr><center>nginx/1.24.0 (Ubuntu)</center>

</body>

</html>

* Connection #0 to host api.kmgmtm.info left intact

ubuntu@ip-172-31-38-123:~/TravelMemory/backend\$ pm2 list

id	name	namespace	version	mode	pid	uptime	U	status	cpu
mem	user	watching							
0	index	default	1.0.0	fork	3912	25m	1	online	0%
81.8mb	ubuntu	disabled							
1	index	default	1.0.0	fork	18500	0s	1366	online	50%
13.4mb	ubuntu	disabled							

ubuntu@ip-172-31-38-123:~/TravelMemory/backend\$ sudo cat /etc/nginx/sites-available/travelmemory-backend

```
server {  
  
    listen 80;  
  
    server_name api.kmgmtm.info;  
  
    location / {  
  
        proxy_pass http://localhost:3000;  
  
        proxy_http_version 1.1;  
  
        proxy_set_header Host $host;  
  
        proxy_set_header X-Real-IP $remote_addr;
```

```
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
    proxy_set_header Upgrade $http_upgrade;
    proxy_set_header Connection 'upgrade';
}
}
```

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo nano
/etc/nginx/sites-available/travelmemory-backend
```

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo nginx -t
```

```
2025/06/14 06:43:59 [warn] 20061#20061: conflicting server name "api.kmgmtm.info" on
0.0.0.0:443, ignored
```

```
2025/06/14 06:43:59 [warn] 20061#20061: conflicting server name "api.kmgmtm.info" on
0.0.0.0:80, ignored
```

```
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
```

```
nginx: configuration file /etc/nginx/nginx.conf test is successful
```

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo systemctl reload nginx
```

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ curl -v https://api.kmgmtm.info
```

```
* Host api.kmgmtm.info:443 was resolved.
```

```
* IPv6: (none)
```

```
* IPv4: 35.91.183.66
```

```
* Trying 35.91.183.66:443...
```

```
* Connected to api.kmgmtm.info (35.91.183.66) port 443
```

```
* ALPN: curl offers h2,http/1.1
```

```
* TLSv1.3 (OUT), TLS handshake, Client hello (1):
```

```
* CAfile: /etc/ssl/certs/ca-certificates.crt
```

```
* CApath: /etc/ssl/certs
```

```
* TLSv1.3 (IN), TLS handshake, Server hello (2):
```

```
* TLSv1.3 (IN), TLS handshake, Encrypted Extensions (8):
```

* TLSv1.3 (IN), TLS handshake, Certificate (11):

* TLSv1.3 (IN), TLS handshake, CERT verify (15):

* TLSv1.3 (IN), TLS handshake, Finished (20):

* TLSv1.3 (OUT), TLS change cipher, Change cipher spec (1):

* TLSv1.3 (OUT), TLS handshake, Finished (20):

* SSL connection using TLSv1.3 / TLS_AES_256_GCM_SHA384 / X25519 / id-ecPublicKey

* ALPN: server accepted http/1.1

* Server certificate:

* subject: CN=api.kmgmtm.info

* start date: Jun 14 05:40:18 2025 GMT

* expire date: Sep 12 05:40:17 2025 GMT

* subjectAltName: host "api.kmgmtm.info" matched cert's "api.kmgmtm.info"

* issuer: C=US; O=Let's Encrypt; CN=E6

* SSL certificate verify ok.

* Certificate level 0: Public key type EC/prime256v1 (256/128 Bits/secBits), signed using ecdsa-with-SHA384

* Certificate level 1: Public key type EC/secp384r1 (384/192 Bits/secBits), signed using sha256WithRSAEncryption

* Certificate level 2: Public key type RSA (4096/152 Bits/secBits), signed using sha256WithRSAEncryption

* using HTTP/1.x

> GET / HTTP/1.1

> Host: api.kmgmtm.info

> User-Agent: curl/8.5.0

> Accept: */*

>

* TLSv1.3 (IN), TLS handshake, Newsession Ticket (4):

* TLSv1.3 (IN), TLS handshake, Newsession Ticket (4):

* old SSL session ID is stale, removing

< HTTP/1.1 502 Bad Gateway

< Server: nginx/1.24.0 (Ubuntu)

< Date: Sat, 14 Jun 2025 06:44:23 GMT

< Content-Type: text/html

< Content-Length: 166

< Connection: keep-alive

<

<html>

<head><title>502 Bad Gateway</title></head>

<body>

<center><h1>502 Bad Gateway</h1></center>

<hr><center>nginx/1.24.0 (Ubuntu)</center>

</body>

</html>

* Connection #0 to host api.kmgmtm.info left intact

ubuntu@ip-172-31-38-123:~/TravelMemory/backend\$ conflicting server name
"api.kmgmtm.info" on 0.0.0.0:443, ignored

conflicting: command not found

ubuntu@ip-172-31-38-123:~/TravelMemory/backend\$ sudo grep -ir 'server_name
api.kmgmtm.info' /etc/nginx/sites-available

/etc/nginx/sites-available/travelmemory: server_name api.kmgmtm.info;

/etc/nginx/sites-available/travelmemory: server_name api.kmgmtm.info;

/etc/nginx/sites-available/travelmemory-backend: server_name api.kmgmtm.info;

/etc/nginx/sites-available/travelmemory-backend: server_name api.kmgmtm.info;

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo rm
/etc/nginx/sites-enabled/travelmemory
```

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo grep -ir 'server_name
api.kmgmtm.info' /etc/nginx/sites-available
```

```
/etc/nginx/sites-available/travelmemory: server_name api.kmgmtm.info;
```

```
/etc/nginx/sites-available/travelmemory: server_name api.kmgmtm.info;
```

```
/etc/nginx/sites-available/travelmemory-backend: server_name api.kmgmtm.info;
```

```
/etc/nginx/sites-available/travelmemory-backend: server_name api.kmgmtm.info;
```

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo rm
/etc/nginx/sites-enabled/travelmemory
```

```
rm: cannot remove '/etc/nginx/sites-enabled/travelmemory': No such file or directory
```

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo rm
/etc/nginx/sites-available/travelmemory
```

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo grep -ir 'server_name
api.kmgmtm.info' /etc/nginx/sites-available
```

```
/etc/nginx/sites-available/travelmemory-backend: server_name api.kmgmtm.info;
```

```
/etc/nginx/sites-available/travelmemory-backend: server_name api.kmgmtm.info;
```

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo nginx -t
```

```
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
```

```
nginx: configuration file /etc/nginx/nginx.conf test is successful
```

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ sudo systemctl reload nginx
```

```
ubuntu@ip-172-31-38-123:~/TravelMemory/backend$ curl -v https://api.kmgmtm.info
```

```
* Host api.kmgmtm.info:443 was resolved.
```

```
* IPv6: (none)
```

```
* IPv4: 35.91.183.66
```

```
* Trying 35.91.183.66:443...
```

```
* Connected to api.kmgmtm.info (35.91.183.66) port 443
```

```
* ALPN: curl offers h2,http/1.1
```

* TLSv1.3 (OUT), TLS handshake, Client hello (1):

* CAfile: /etc/ssl/certs/ca-certificates.crt

* CApath: /etc/ssl/certs

* TLSv1.3 (IN), TLS handshake, Server hello (2):

* TLSv1.3 (IN), TLS handshake, Encrypted Extensions (8):

* TLSv1.3 (IN), TLS handshake, Certificate (11):

* TLSv1.3 (IN), TLS handshake, CERT verify (15):

* TLSv1.3 (IN), TLS handshake, Finished (20):

* TLSv1.3 (OUT), TLS change cipher, Change cipher spec (1):

* TLSv1.3 (OUT), TLS handshake, Finished (20):

* SSL connection using TLSv1.3 / TLS_AES_256_GCM_SHA384 / X25519 / id-ecPublicKey

* ALPN: server accepted http/1.1

* Server certificate:

* subject: CN=api.kmgm.info

* start date: Jun 14 05:40:18 2025 GMT

* expire date: Sep 12 05:40:17 2025 GMT

* subjectAltName: host "api.kmgm.info" matched cert's "api.kmgm.info"

* issuer: C=US; O=Let's Encrypt; CN=E6

* SSL certificate verify ok.

* Certificate level 0: Public key type EC/prime256v1 (256/128 Bits/secBits), signed using ecdsa-with-SHA384

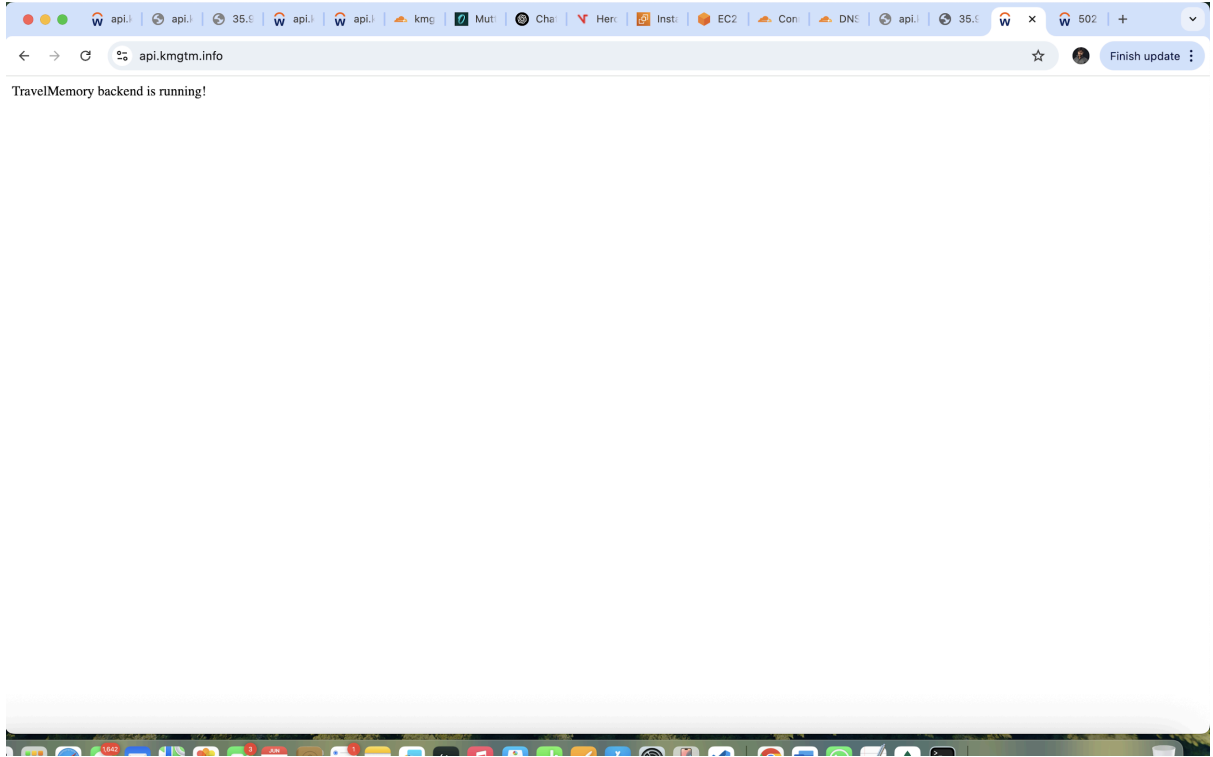
* Certificate level 1: Public key type EC/secp384r1 (384/192 Bits/secBits), signed using sha256WithRSAEncryption

* Certificate level 2: Public key type RSA (4096/152 Bits/secBits), signed using sha256WithRSAEncryption

* using HTTP/1.x

> GET / HTTP/1.1

```
> Host: api.kmgmtm.info
> User-Agent: curl/8.5.0
> Accept: */*
>
* TLSv1.3 (IN), TLS handshake, Newsession Ticket (4):
* TLSv1.3 (IN), TLS handshake, Newsession Ticket (4):
* old SSL session ID is stale, removing
< HTTP/1.1 200 OK
< Server: nginx/1.24.0 (Ubuntu)
< Date: Sat, 14 Jun 2025 06:52:17 GMT
< Content-Type: text/html; charset=utf-8
< Content-Length: 32
< Connection: keep-alive
< X-Powered-By: Express
< Access-Control-Allow-Origin: *
< ETag: W/"20-4iAP7IQHE6ZrnH+VcbvFZY4Xe1Q"
<
* Connection #0 to host api.kmgmtm.info left intact
TravelMemory backend is running!ubuntu@ip-172-31-38-123:~/TravelMemory/backend$
```



12. Testing and Health Checks

Checking load balancer target health and overall availability.

Check the application health of Frontend and Backend Load balancer and target security group

Travel Memory Add Experience

Trip Name
myTrip 14062025

Trip Date
15/06/2025 20/06/2025

Name of Hotels
KMG

Trip Type
Backpacking

Total Cost
1111110

Places Visited
Blr

Featured Trip?
 True
 False

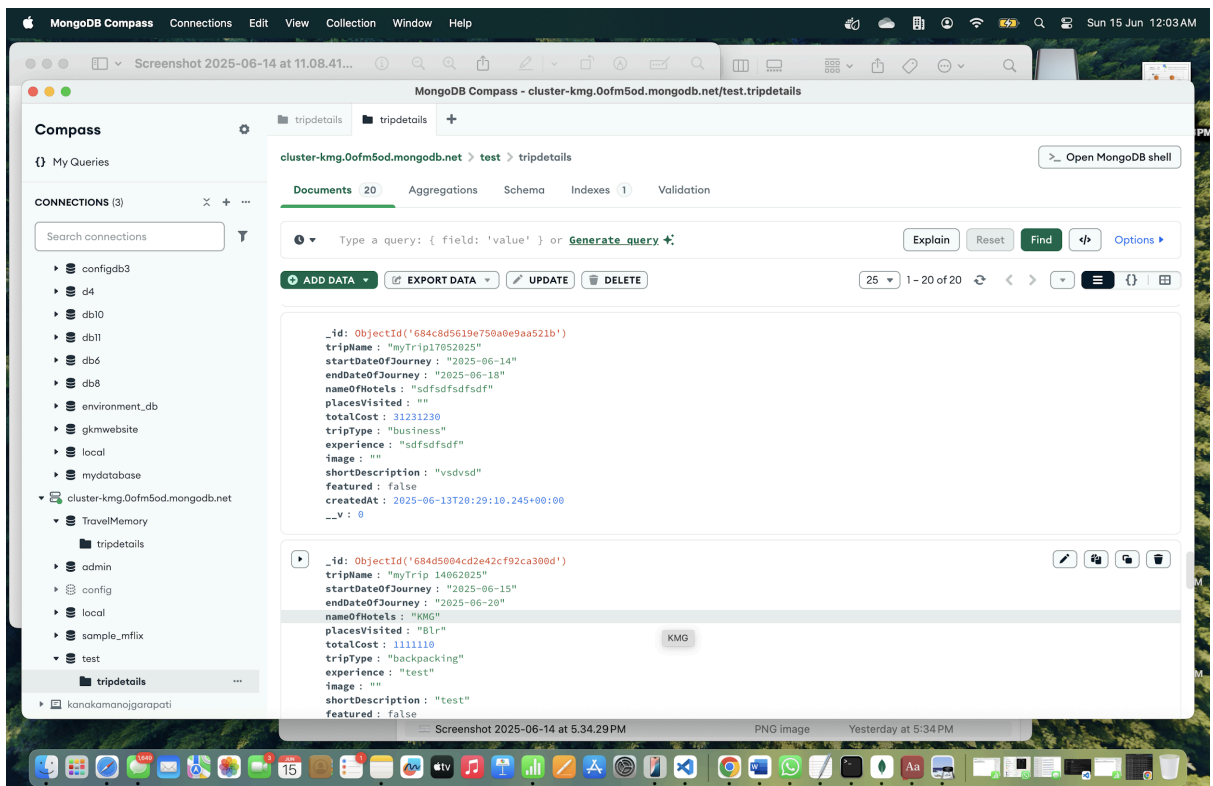
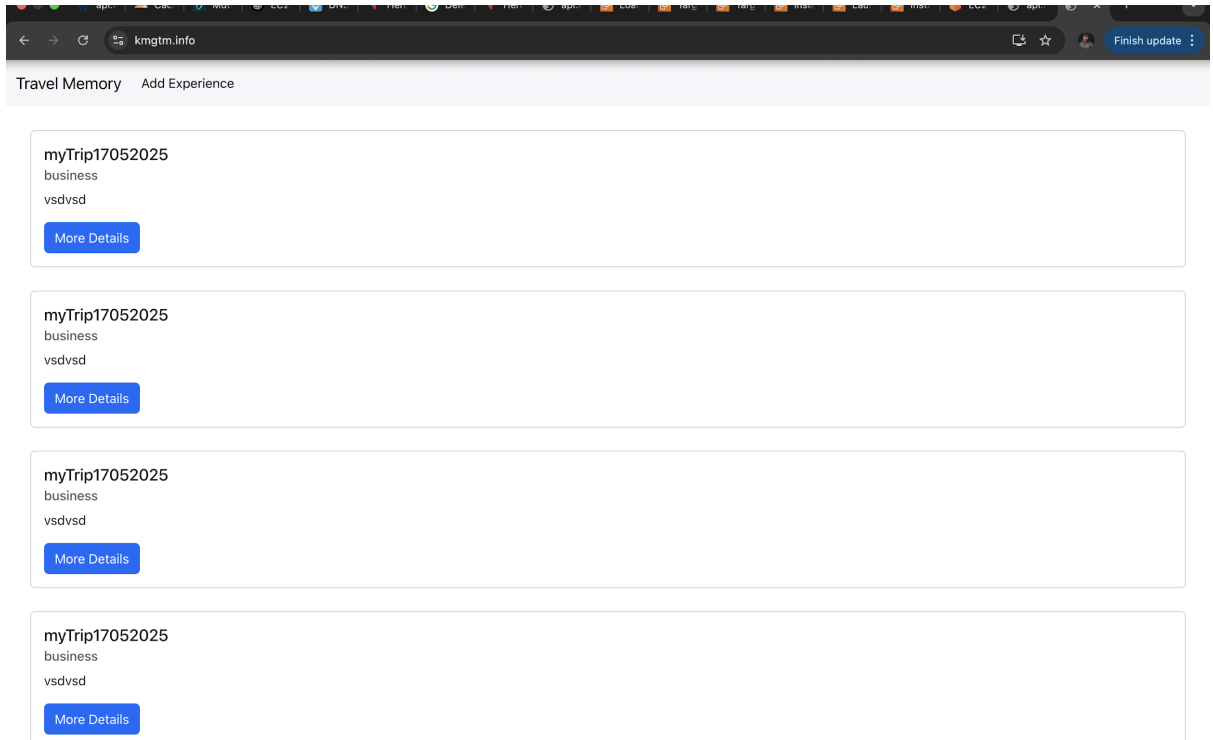
Image Link
http://xyz.com/image.png

Short Description
test

Experience

- More Details
- myTrip17052025
business
vsdvsd
More Details
 - myTrip 14062025
backpacking
test
More Details
 - myTrip 14062025
backpacking
test
More Details
 - myTrip 14062025
backpacking
test

App Testing with custom domain



- Overview
- AI Audit Beta
- Analytics & Logs
- DNS
 - Records**
 - Analytics
 - Settings
- Email
- SSL/TLS
- Security
- Access
- Speed
- Caching
- Workers Routes
- Rules
- Error Pages New

✓ Add an MX record for your **root domain** so that mail can reach @**kmgmtm.info** addresses or [set up restrictive SPF, DKIM, and DMARC records](#) to prevent email spoofing. New Alert

DNS management for **kmgmtm.info** DNS Setup: Full Import and Export Dashboard Display Settings
Review, add, and edit DNS records. Edits will go into effect once saved.

Search DNS Records

Type	Name	Content	Proxy status	TTL	Actions
<input type="checkbox"/>	A	api	Proxied	Auto	Edit
<input type="checkbox"/>	A	kmgmtm.info	Proxied	Auto	Edit
<input type="checkbox"/>	A	www	Proxied	Auto	Edit
<input type="checkbox"/>	CNAME	_4376253ac3eb..._6c048c2f4779da41f...	DNS only	Auto	Edit

Cloudflare Nameservers
Every DNS zone on Cloudflare is assigned a set of Cloudflare-branded nameservers.

Type	Value
NS	autumn.ns.cloudflare.com



us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#LoadBalancer:loadBalancerArn=arn:aws:elasticloadbalancing:us-west-2:975050024...

EC2 > Load balancers > KanakaManoj-FE-LB

Capacity Reservations

- Images
 - AMIs
 - AMI Catalog
- Elastic Block Store
 - Volumes
 - Snapshots
 - Lifecycle Manager
- Network & Security
 - Security Groups
 - Elastic IPs
 - Placement Groups
 - Key Pairs
 - Network Interfaces
- Load Balancing
 - Load Balancers
 - Target Groups
 - Trust Stores
- Auto Scaling
 - Auto Scaling Groups

Settings

CloudShell Feedback

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Successfully created load balancer: **KanakaManoj-FE-LB**
 It might take a few minutes for your load balancer to fully set up and route traffic. Targets will also take a few minutes to complete the registration process and pass initial health checks.

Application Load Balancers now support public IPv4 IP Address Management (IPAM)
 You can get started with this feature by configuring IP pools in the Network mapping section.

KanakaManoj-FE-LB

Actions

Details

Load balancer type Application	Status Provisioning	VPC vpc-0321f38a7b594180d	Load balancer IP address type IPv4
Scheme Internet-facing	Hosted zone Z1H1FL5HAB5F5	Availability Zones subnet-03ca36de9a927fe8e us-west-2b (usw2-az1) subnet-06bd72b2e4cb41d10 us-west-2a (usw2-az2)	Date created June 14, 2025, 18:10 (UTC+05:30)

Load balancer ARN
arn:aws:elasticloadbalancing:us-west-2:975050024946:loadbalancer/app/KanakaManoj-FE-LB/08da5938a670dff5

DNS name info
KanakaManoj-FE-LB-1452398770.us-west-2.elb.amazonaws.com (A Record)

[Listeners and rules](#) | [Network mapping](#) | [Resource map](#) | [Security](#) | [Monitoring](#) | [Integrations](#) | [Attributes](#) | [Capacity](#)

Listeners and rules (2) Info

[Manage rules](#) | [Manage listener](#) | [Add listener](#)

aws Certificate Manager > Certificates > 8b2db819-1c42-4c9a-bfb2-142430e5c065

AWS Certificate Manager (ACM)

- List certificates
- Request certificate
- Import certificate
- AWS Private CA

8b2db819-1c42-4c9a-bfb2-142430e5c065

Delete

Certificate status

Identifier 8b2db819-1c42-4c9a-bfb2-142430e5c065	Status Issued
ARN arn:aws:acm:us-west-2:975050024946:certificate/8b2db819-1c42-4c9a-bfb2-142430e5c065	
Type Amazon Issued	

Domains (1) [Create records in Route 53](#) [Export to CSV](#)

Domain	Status	Renewal status	Type	CNAME name
kmgtm.info	Success	-	CNAME	_4376253ac3eb58bbd5c9fa22a2cc

Details

In use No	Serial number 07:9e3cc1:ad:ea:e4:c5:1e:ef:54:b2:f3:78:e8:d8	Requested at June 14, 2025, 17:50:32 (UTC+05:30)	Renewal eligibility Ineligible
Domain name kmgtm.info	Public key info	Issued at June 14, 2025, 18:07:53 (UTC+05:30)	

CloudShell Feedback

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Front end app health

us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#TargetGroup:targetGroupArn=arn:aws:elasticloadbalancing:us-west-2:975050024946:target...

EC2 > Target groups > kanakaManoj-FE-target-group

One target registered successfully to kanakaManoj-FE-target-group.

kanakaManoj-FE-target-group

Details

arn:aws:elasticloadbalancing:us-west-2:975050024946:targetgroup/kanakaManoj-FE-target-group/83ce69f76194a90

Target type: Instance

Protocol : Port: HTTP: 80

Protocol version: HTTP1

VPC: vpc-0321f38a7b594180d

IP address type: IPv4

Load balancer: KanakaManoj-FE-LB

2 Total targets

2 Healthy, 0 Anomalous, 0 Unhealthy, 0 Unused, 0 Initial, 0 Draining

Distribution of targets by Availability Zone (AZ)

Select values in this table to see corresponding filters applied to the Registered targets table below.

Targets | Monitoring | Health checks | Attributes | Tags

Registered targets (2)

Target groups route requests to individual registered targets using the protocol and port number specified. Health checks are performed on all registered targets according to the target group's health check settings. Anomaly detection is automatically applied to HTTP/HTTPS target groups with at least 3 healthy targets.

Instance ID	Name	Port	Zone	Health status	Health status details	Administrative override	Override details
i-0cd59c2ff63db3098	kanakaManoj-...	80	us-west-2a (us-...)	Healthy	-	No override	No override is currently active...
i-09f411274a2c4f966	kanakaManoj-...	80	us-west-2a (us-...)	Healthy	-	No override	No override is currently active...

us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#LoadBalancer:loadBalancerArn=arn:aws:elasticloadbalancing:us-west-2:975050024946:lo...

EC2 > Load balancers > KanakaManoj-FE-LB

Details

Load balancer type: Application

Status: Active

VPC: vpc-0321f38a7b594180d

Load balancer IP address type: IPv4

Scheme: Internet-facing

Hosted zone: Z1H1FLSHABSF5

Availability Zones: subnet-03ca36de9a927fe8e (us-west-2b (usw2-a2)), subnet-06bd72b2e4cb41d10 (us-west-2a (usw2-a2))

Date created: June 14, 2025, 18:10 (UTC+05:30)

Load balancer ARN: arn:aws:elasticloadbalancing:us-west-2:975050024946:loadbalancer/app/KanakaManoj-FE-LB/08da5938a670

DNS name: KanakaManoj-FE-LB-1452398770.us-west-2.elb.amazonaws.com (A Record)

Listeners and rules | Network mapping | **Resource map** | Security | Monitoring | Integrations | Attributes | Capacity | Tags

Resource map

View, explore, and troubleshoot your load balancer's architecture.

Overview | Unhealthy target map | Show resource details

KanakaManoj-FE-LB

Last fetched seconds ago | Export

```

graph LR
    subgraph Listeners_2
        L1[HTTPS:443 - 1 rule]
        L2[HTTP:80 - 1 rule]
    end
    subgraph Rules_2
        R1[Priority default Forward to target group]
        R2[Priority default Forward to target group]
    end
    subgraph Target_groups_1
        TG[kanakaManoj-FE-target-group - 2 targets]
    end
    subgraph Targets_2
        T1[i-09f411274a2c4f966 - Port 80 - Healthy]
        T2[i-0cd59c2ff63db3098 - Port 80 - Healthy]
    end
    L1 --> R1
    L2 --> R2
    R1 --> TG
    R2 --> TG
    TG --> T1
    TG --> T2
  
```

Backend App health

- EC2 > Load balancers > KanakaManoj-BE-LB
- EC2
 - Dashboard
 - EC2 Global View
 - Events
- Instances
 - Instances
 - Instance Types
 - Launch Templates
 - Spot Requests
 - Savings Plans
 - Reserved Instances
 - Dedicated Hosts
 - Capacity Reservations
- Images
 - AMIs
 - AMI Catalog
- Elastic Block Store
 - Volumes
 - Snapshots
 - Lifecycle Manager
- Network & Security
 - Security Groups
 - Elastic IPs
 - Placement Groups
 - Key Pairs
 - Network Interfaces
- Load Balancing
 - Load Balancers
 - Target Groups
 - Trust Stores

Details

Load balancer type Application	Status Active	VPC vpc-0321f38a7b594180d	Load balancer IP address type IPv4
Scheme Internet-facing	Hosted zone Z1H1FL5HABSF5	Availability Zones subnet-03ca36e9e9a927fe8e us-west-2b (usw2-az1) subnet-06bd72b2e4cb41d10 us-west-2a (usw2-az2)	Date created June 14, 2025, 18:22 (UTC+05:30)
Load balancer ARN arn:aws:elasticloadbalancing:us-west-2:975050024946:loadbalancer/app/KanakaManoj-BE-LB/b2845a6e76b51262	DNS name info KanakaManoj-BE-LB-1584194435.us-west-2.elb.amazonaws.com (A Record)		

- Listeners and rules
- Network mapping
- Resource map**
- Security
- Monitoring
- Integrations
- Attributes
- Capacity
- Tags

Resource map info
View, explore, and troubleshoot your load balancer's architecture. [Give feedback](#)

Overview | Unhealthy target map | Show resource details

Last fetched seconds ago [Export](#)

