

## The Ultimate Travel Blog

- How to deploy a Wanderlust application on an AWS EC2 instance and access the same in the browser.
- + you can refer it from my GitHub Repository:  
<https://github.com/sohampatil8/wanderLust-NodeJS.git>



**Wanderlust project** is hosted on an EC2 instance and features a robust architecture that includes:

- **Frontend:** Built using Node.js, providing a responsive and dynamic user interface.
- **Backend:** Also developed in Node.js, handling the application logic, API requests, and interactions with the database.
- **Database:** MongoDB is used as the database, ensuring efficient storage and retrieval of data, ideal for handling large volumes of unstructured data.

**Steps that we need to perform here are as follows:**

1. Create an AWS EC2 instance
2. SSH into the instance
3. Install NodeJS and MongoDB
4. Install Git
5. Clone the repository from GitHub
6. Install all the required dependencies
7. Run backend and frontend server
8. Access the application in browser

## 1. Create AWS EC2 instance

First step here in the process we need to configure an AWS EC2 instance and SSH into the same. Now we will start the procedure of deploying the wanderlust application on the newly created EC2 machine.

Security Group: custom port **5173, 8080** and **3306** should be enable

## 2. Clone the repository for wanderlust project's backend and frontend:

- *git clone https://github.com/sohampatil8/wanderLust-NodeJS.git*

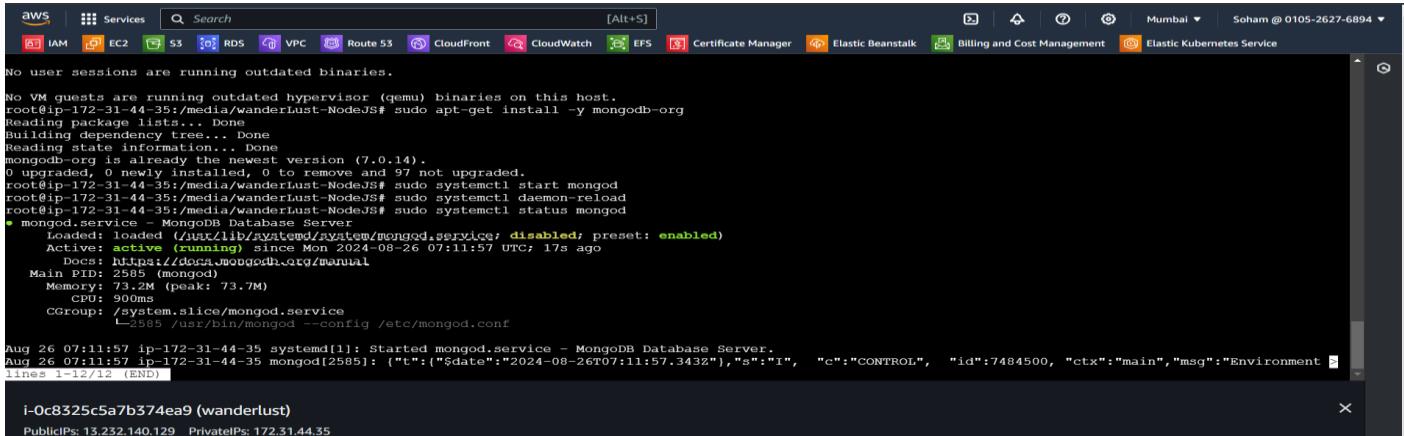
```
root@ip-172-31-44-35:/media# ls
root@ip-172-31-44-35:/media# git clone https://github.com/sohampatil8/wanderLust-NodeJS.git
Cloning into 'wanderLust-NodeJS'...
remote: Enumerating objects: 226, done.
remote: Counting objects: 100% (226/226), done.
remote: Compressing objects: 100% (179/179), done.
remote: Total 226 (delta 31), reused 216 (delta 24), pack-reused 0 (from 0)
Receiving objects: 100% (226/226), 260.97 KiB | 1.32 MiB/s, done.
Resolving deltas: 100% (31/31), done.
root@ip-172-31-44-35:/media# ls
wanderLust-NodeJS
root@ip-172-31-44-35:/media#
```

## 3. Install MongoDB: <https://www.mongodb.com/docs/manual/tutorial/install-mongodb-on-ubuntu/>

- *sudo apt-get install gnupg curl*
- *curl -fsSL https://www.mongodb.org/static/pgp/server-7.0.asc | \*  
    *sudo gpg -o /usr/share/keyrings/mongodb-server-7.0.gpg \*  
    *--dearmor*
- *echo "deb [ arch=amd64,arm64 signed-by=/usr/share/keyrings/mongodb-server-7.0.gpg ]*  
    *https://repo.mongodb.org/apt/ubuntu jammy/mongodb-org/7.0 multiverse" | sudo tee*  
    */etc/apt/sources.list.d/mongodb-org-7.0.list*
- *sudo apt-get update*
- *sudo apt-get install -y mongodb-org*

```
root@ip-172-31-44-35:/media/wanderLust-NodeJS# ls
README.md  backend  docker-compose.yml  frontend  package.json
root@ip-172-31-44-35:/media/wanderLust-NodeJS# sudo apt-get install gnupg curl -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
gnupg is already the newest version (2.4.4-2ubuntu17).
gnupg set to manually install.
The following additional packages will be installed:
libcurl3t64-gnutils  libcurl4t64
The following packages will be upgraded:
curl  libcurl3t64-gnutils  libcurl4t64
0 upgraded, 0 newly installed, 0 to remove and 97 not upgraded.
Need to get 900 kB in 0s (26.7 MB/s).
After this operation, 3072 B of additional disk space will be used.
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 curl amd64 8.5.0-2ubuntu10.3 [227 kB]
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 libcurl4t64 amd64 8.5.0-2ubuntu10.3 [341 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 libcurl3t64-gnutils amd64 8.5.0-2ubuntu10.3 [333 kB]
Fetched 900 kB in 0s (26.7 MB/s)
Reading database ... 67739 files and directories currently installed.
Preparing to unpack .../curl_8.5.0-2ubuntu10.3_amd64.deb ...
Unpacking curl (8.5.0-2ubuntu10.3) over (8.5.0-2ubuntu10.1)...
Preparing to unpack .../libcurl4t64_8.5.0-2ubuntu10.3_amd64.deb ...
Unpacking libcurl4t64:amd64 (8.5.0-2ubuntu10.3) over (8.5.0-2ubuntu10.1)...
Preparing to unpack .../libcurl3t64-gnutils_8.5.0-2ubuntu10.3_amd64.deb ...
Unpacking libcurl3t64-gnutils:amd64 (8.5.0-2ubuntu10.3) over (8.5.0-2ubuntu10.1)...
```

- *sudo systemctl daemon-reload*
- *sudo systemctl start mongod*
- *sudo systemctl enable mongod*
- *sudo systemctl status mongod*



```

aws | Services | Search [Alt+S] | Mumbai | Soham @ 0105-2627-6894 ▾
IAM EC2 S3 RDS VPC Route 53 CloudFront CloudWatch EFS Certificate Manager Elastic Beanstalk Billing and Cost Management Elastic Kubernetes Service

No user sessions are running outdated binaries.

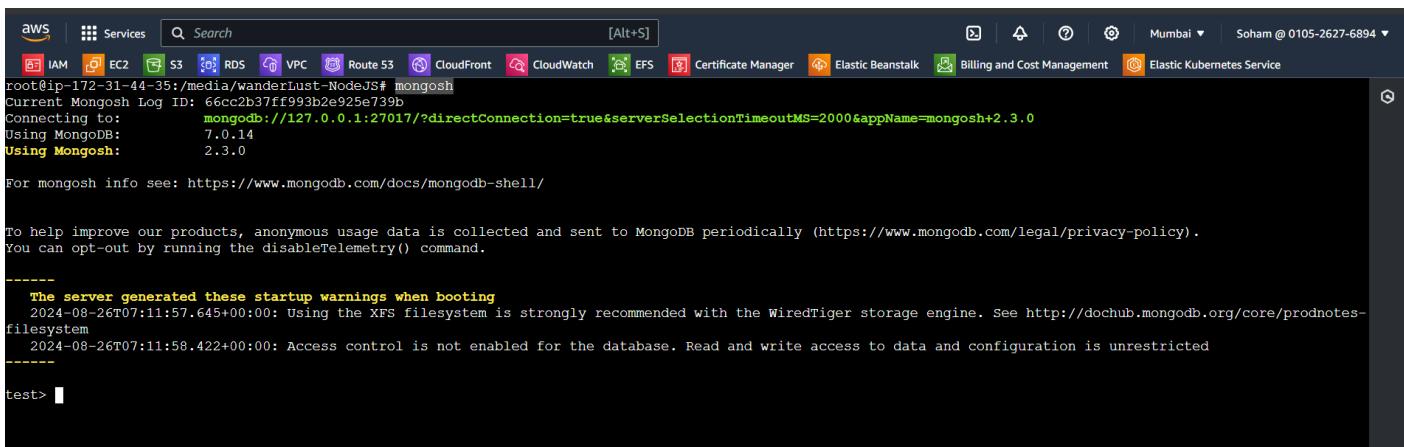
No VM guests are running outdated hypervisor (qemu) binaries on this host.
root@ip-172-31-44-35:/media/wanderLust-NodeJS# sudo apt-get install -y mongodb-org
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
mongodb-org is already the newest version (7.0.14).
0 upgraded, 0 newly installed, 0 to remove and 97 not upgraded.
root@ip-172-31-44-35:/media/wanderLust-NodeJS# sudo systemctl start mongod
root@ip-172-31-44-35:/media/wanderLust-NodeJS# sudo systemctl daemon-reload
root@ip-172-31-44-35:/media/wanderLust-NodeJS# sudo systemctl status mongod
● mongod.service - MongoDB Database Server
   Loaded: loaded (/usr/lib/systemd/system/mongod.service; disabled; preset: enabled)
     Active: active (running) since Mon 2024-08-26 07:11:57 UTC; 17s ago
       Docs: https://docs.mongodb.org/manual
   Main PID: 2585 (mongod)
      Memory: 73.2M (peak: 73.7M)
        CPU: 900ms
      CGroup: /system.slice/mongod.service
             └─2585 /usr/bin/mongod --config /etc/mongod.conf

Aug 26 07:11:57 ip-172-31-44-35 systemd[1]: Started mongod.service - MongoDB Database Server.
Aug 26 07:11:57 ip-172-31-44-35 mongod[2585]: {"t":"$date":"2024-08-26T07:11:57.343Z"}, "s": "I", "c": "CONTROL", "id": 7484500, "ctx": "main", "msg": "Environment"
lines 3-12/12 (END)

i-0c8325c5a7b374ea9 (wanderlust)
Public IPs: 13.232.140.129 Private IPs: 172.31.44.35

```

- *mongosh*



```

aws | Services | Search [Alt+S] | Mumbai | Soham @ 0105-2627-6894 ▾
IAM EC2 S3 RDS VPC Route 53 CloudFront CloudWatch EFS Certificate Manager Elastic Beanstalk Billing and Cost Management Elastic Kubernetes Service

root@ip-172-31-44-35:/media/wanderLust-NodeJS# mongosh
Current MongoDB Log ID: 66cc2b37ff993b2e925e739b
Connecting to: mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.3.0
Using MongoDB: 7.0.14
Using Mongosh: 2.3.0

For mongosh info see: https://www.mongodb.com/docs/mongodb-shell/

To help improve our products, anonymous usage data is collected and sent to MongoDB periodically (https://www.mongodb.com/legal/privacy-policy).
You can opt-out by running the disableTelemetry() command.

-----
The server generated these startup warnings when booting
2024-08-26T07:11:57.645+00:00: Using the XFS filesystem is strongly recommended with the WiredTiger storage engine. See http://dochub.mongodb.org/core/prodnotes-filesystem
2024-08-26T07:11:58.422+00:00: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
-----

test> 

```

#### 4. Install Node.js from official site:

##### Download Node.js®

Download Node.js the way you want.

[Package Manager](#) [Prebuilt Installer](#) [Prebuilt Binaries](#) [Source Code](#)

Install Node.js v22.7.0 (Current) on using

```

1 # installs nvm (Node Version Manager)
2 curl -o https://raw.githubusercontent.com/nvm-sh/nvm/v0.40.0/install.sh | bash
3
4 # download and install Node.js (you may need to restart the terminal)
5 nvm install 22
6
7 # verifies the right Node.js version is in the environment
8 node -v # should print 'v22.7.0'
9
10 # verifies the right npm version is in the environment
11 npm -v # should print '10.8.2'

```

Bash

### Install nvm (Node Version Manager):

- curl -o- https://raw.githubusercontent.com/nvm-sh/nvm/v0.40.0/install.sh | bash
- bash
- nvm install 22

```
aws | Services | Search [Alt+S] | Mumbai | Soham @ 0105-2627-6894
IAM EC2 S3 RDS VPC Route 53 CloudFront CloudWatch EFS Certificate Manager Elastic Beanstalk Billing and Cost Management Elastic Kubernetes Service
root@ip-172-31-44-35:/media/wanderLust-NodeJS# bash
root@ip-172-31-44-35:/media/wanderLust-NodeJS# nvm install 22
Downloading and installing node v22.7.0...
Computing checksum with sha256sum
Checksums matched!
Now using node v22.7.0 (npm v10.8.2)
Creating default alias: default -> 22 (-> v22.7.0)
root@ip-172-31-44-35:/media/wanderLust-NodeJS#
```

- node -v && npm -v

### 5. Enter into Backend file:

- Insert the sample data(sample\_posts.json) into MongoDB:
- cd backend/
  - mongoimport --db wanderlust --collection posts --file ./data/sample\_posts.json --jsonArray

```
aws | Services | Search [Alt+S] | Mumbai | Soham @ 0105-2627-6894
IAM EC2 S3 RDS VPC Route 53 CloudFront CloudWatch EFS Certificate Manager Elastic Beanstalk Billing and Cost Management Elastic Kubernetes Service
root@ip-172-31-44-35:/media/wanderLust-NodeJS# ls
README.md backend docker-compose.yml frontend package.json
root@ip-172-31-44-35:/media/wanderLust-NodeJS# cd backend/
root@ip-172-31-44-35:/media/wanderLust-NodeJS/backend# ls
Dockerfile app.js controllers eslint.config.js models public server.js tests utils
api config data middlewares package.json routes services types vercel.json
root@ip-172-31-44-35:/media/wanderLust-NodeJS/backend# mongoimport --db wanderlust --collection posts --file ./data/sample_posts.json --jsonArray
2024-08-26T07:19:28.039+0000 connected to: mongodb://localhost/
2024-08-26T07:19:28.057+0000 10 document(s) imported successfully. 0 document(s) failed to import.
root@ip-172-31-44-35:/media/wanderLust-NodeJS/backend#
```

- Edit .env.sample data to create connection between backend, database and upcoming frontend:

- ls -a
- cat .env.sample

```
aws | Services | Search [Alt+S] | Mumbai | Soham @ 0105-2627-6894
IAM EC2 S3 RDS VPC Route 53 CloudFront CloudWatch EFS Certificate Manager Elastic Beanstalk Billing and Cost Management Elastic Kubernetes Service
root@ip-172-31-44-35:/media/wanderLust-NodeJS/backend# ls -a
.babelrc .eslintrc.json .prettierrc api config data middlewares package.json routes services types vercel.json
.env.sample .prettierignore Dockerfile app.js controllers eslint.config.js models public server.js tests utils
root@ip-172-31-44-35:/media/wanderLust-NodeJS/backend# cat .env.sample
PORT=8080
MONGODB_URI="mongodb://127.0.0.1/wanderlust"
REDIS_URL="redis://127.0.0.1:6379"
FRONTEND_URL=http://localhost:5173
BACKEND_URL=http://localhost:8080
ACCESS_COOKIE_MAXAGE=120000
ACCESS_TOKEN_EXPIRES_IN='120s'
REFRESH_COOKIE_MAXAGE=120000
REFRESH_TOKEN_EXPIRES_IN='120s'
JWT_SECRET=7dd8b3848eeee723ce2505f6db06flee503fde5eb06fc04687191a0ed665f3f98776902d2c89f6b993b1c579a87fedaf584c693a106f7cbf16e8b4e67e9d6df
NODE_ENV=development
GOOGLE_CLIENT_ID=
GOOGLE_CLIENT_SECRET=root@ip-172-31-44-35:/media/wanderLust-NodeJS/backend#
```

- Mention Backend\_IP, Frontend\_IP, Access\_key & Secrete\_key:

- vim .env.sample

```
aws | Services | Search [Alt+S] | Mumbai | Soham @ 0105-2627-6894
PORT=8080
MONGODB_URI="mongodb://127.0.0.1/wanderlust"
REDIS_URL="redis://127.0.0.1:6379" # Mention Frontend_server's IP address
FRONTEND_URL=http://13.232.140.129:5173 # Mention Backend_server's IP address
BACKEND_URL=http://13.232.140.129:8080
ACCESS_COOKIE_MAXAGE=120000
ACCESS_TOKEN_EXPIRES_IN='120s'
REFRESH_COOKIE_MAXAGE=120000
REFRESH_TOKEN_EXPIRES_IN='120s'
JWT_SECRET=7dd8b3848eeee723ce2505f6db06flee503fde5eb06fc04687191a0ed665f3f98776902d2c89f6b993b1c579a87fedaf584c693a106f7cbf16e8b4e67e9d6df
NODE_ENV=Development
GOOGLE_CLIENT_ID="access_key" # Mention access_key
GOOGLE_CLIENT_SECRET="secrete_key" # Mention secrete_key
~
```

➤ Now copy this `.env.sample` to `.env`

- `cp .env.sample .env`
- `cat .env`

```

aws | Services | Search [Alt+S] | Mumbai | Soham @ 0105-2627-6894 ▾
IAM EC2 S3 RDS VPC Route 53 CloudFront CloudWatch EFS Certificate Manager Elastic Beanstalk Billing and Cost Management Elastic Kubernetes Service
root@ip-172-31-44-35:/media/wanderLust-NodeJS/backend# ls -a
. .babelrc .eslintrc.json .prettierrc api config data middlewares package.json routes services types vercel.json
.. .env.sample .prettierignore Dockerfile app.js controllers eslint.config.js models public server.js tests utils
root@ip-172-31-44-35:/media/wanderLust-NodeJS/backend# cp .env.sample .env
root@ip-172-31-44-35:/media/wanderLust-NodeJS/backend# ls -a
. .babelrc .env.sample .prettierignore Dockerfile app.js controllers eslint.config.js models public server.js tests utils
.. .env .eslintrc.json .prettierrc api config data middlewares package.json routes services types vercel.json
root@ip-172-31-44-35:/media/wanderLust-NodeJS/backend# cat .env
PORT=8080
MONGODB_URI="mongodb://127.0.0.1/wanderlust"
REDIS_URL="redis://127.0.0.1:6379"
FRONTEND_URL=http://13.232.140.129:5173
BACKEND_URL=http://13.232.140.129:8080
ACCESS_COOKIE_MAXAGE=120000
ACCESS_TOKEN_EXPIRES_IN='120s'
REFRESH_COOKIE_MAXAGE=120000
REFRESH_TOKEN_EXPIRES_IN='120s'
JWT_SECRET=70dd8b38486eee723ce2505f6db06flee503fde5eb0fc04687191a0ed665f3f98776902d2c89f6b993b1c579a87fedaf584c693a106f7cbf16e8b4e67e9d6df
NODE_ENV=Development
GOOGLE_CLIENT_ID="access_key"
GOOGLE_CLIENT_SECRET="secret_key"
root@ip-172-31-44-35:/media/wanderLust-NodeJS/backend# 

```

➤ Install Redis-server:

- `apt install redis-server -y`

```

aws | Services | Search [Alt+S] | Mumbai | Soham @ 0105-2627-6894 ▾
IAM EC2 S3 RDS VPC Route 53 CloudFront CloudWatch EFS Certificate Manager Elastic Beanstalk Billing and Cost Management Elastic Kubernetes Service
root@ip-172-31-44-35:/media/wanderLust-NodeJS/backend# apt install redis-server -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
 libatomic1 libjemalloc2 liblzf1 redis-tools
Suggested packages:
 ruby-redis
The following NEW packages will be installed:
 libatomic1 libjemalloc2 liblzf1 redis-server redis-tools
0 upgraded, 5 newly installed, 0 to remove and 97 not upgraded.
Need to get 1491 kB of archives.
After this operation, 7604 kB of additional disk space will be used.
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 libatomic1 amd64 14-20240412-0ubuntu1 [10.4 kB]
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 libjemalloc2 amd64 5.3.0-2build1 [256 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 liblzf1 amd64 3.6.4-7624 [B]
Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 redis-tools amd64 5:7.0.15-1build2 [1165 kB]
Get:5 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 redis-server amd64 5:7.0.15-1build2 [51.7 kB]
Fetched 1491 kB in 0s (33.4 MB/s)

```

➤ Install all the required dependencies and start the Backend:

- `npm install` ( wait for 2 min to load packages)
- `npm start`

```

aws | Services | Search [Alt+S] | Mumbai | Soham @ 0105-2627-6894 ▾
IAM EC2 S3 RDS VPC Route 53 CloudFront CloudWatch EFS Certificate Manager Elastic Beanstalk Billing and Cost Management Elastic Kubernetes Service
root@ip-172-31-44-35:/media/wanderLust-NodeJS/backend# ls -a
. .babelrc .env.sample .prettierignore Dockerfile app.js controllers eslint.config.js models public server.js tests utils
.. .env .eslintrc.json .prettierrc api config data middlewares package.json routes services types vercel.json
root@ip-172-31-44-35:/media/wanderLust-NodeJS/backend# npm install
npm warn deprecated inflight@1.0.6: This module is not supported, and leaks memory. Do not use it. Check out lru-cache if you want a good and tested way to coalesce async requests by a key value, which is much more comprehensive and powerful.
npm warn deprecated glob@7.2.3: Glob versions prior to v9 are no longer supported
npm warn deprecated superagent@8.1.2: Please upgrade to v9.0.0+ as we have fixed a public vulnerability with formidable dependency. Note that v9.0.0+ requires Node.js v14.18.0+. See https://github.com/ladjs/superagent/pull/1800 for insight. This project is supported and maintained by the team at Forward Email @ https://forwardemail.net
added 795 packages, and audited 796 packages in 35s

106 packages are looking for funding
  run 'npm fund' for details

found 0 vulnerabilities
root@ip-172-31-44-35:/media/wanderLust-NodeJS/backend# npm start

> start
> node server.js

Redis Connected: redis://127.0.0.1:6379
Database connected: mongodb://127.0.0.1/wanderlust
Server is running on port 8080

```

- Check on Browser to verify backend is working properly:

- `<public IP backend>:8080/api/posts`

[{"id": "653441167c11e03b70e9161c", "authorName": "Alice Smith", "title": "Capturing the Cityscape at Night: A Mesmerizing Experience", "imageLink": "https://i.ibb.co/y8vQnDc/c4fedab1-4041-4db5-9245-974932fc2fc.webp", "categories": "[\"Travel\", \"City\", \"Night\"], \"description\": \"Discover the magic of cityscapes at night in this captivating journey. The city lights, towering skyscrapers, and bustling streets create a unique atmosphere that is truly mesmerizing. Join us as we explore cities after dark and witness their vibrant energy. As the sun sets and darkness descends, the city transforms into a different world. It's a world where the city comes alive in a way that is entirely different from the daytime. The streets are aglow with a sea of lights, and the architecture of the city takes on a whole new dimension. It's a visual spectacle that leaves a lasting impression. We'll explore the beauty of city lights, the towering skyscrapers that touch the sky, and the vibrancy of the nightlife. You'll get a sense of the energy that flows through the city when the moon is high, and the stars twinkle overhead. The cityscape at night is a canvas of colors and shapes. It's a photographic dream, and if you have a passion for photography, this is the time to capture the city's beauty. This journey promises to be a visual feast, filled with stunning cityscapes and moments that will stay with you long after the journey is over. The city lights, landmarks, and historical buildings all come together to create a different aura. The reflections in the water, the long-exposure shots of traffic, and the silhouettes of people on the streets all contribute to the enchanting experience. We'll also delve into the sounds of the night, from the chatter of people enjoying their evenings to the distant hum of traffic. It's a symphony of urban life that's unique to the nighttime hours. If you're a traveler seeking a new perspective on the city, this travel post will inspire you to go out and explore the cityscapes at night. The night is a surprise and discovery, and it's a journey that can't be missed. Whether you're a professional photographer or an amateur with a smartphone, you'll find something valuable in this journey through the city's nightscapes. So, join us as we step into the night and immerse ourselves in the captivating world of the cityscapes at night. It's a mesmerizing experience that will leave you with memories and photographs to cherish for a lifetime.\", \"isFeaturedPost\": true, \"timeOfPost\": \"2023-11-04T14:33:21.700Z\"}, {"id": "653441167c11e03b70e9161b", "authorName": "John Doe", "title": "A Journey Through the Maldives: Exploring the Islands of Paradise", "imageLink": "https://i.ibb.co/04g42nn/FPo-BOR-100-800x600.webp", "categories": "[\"Travel\", \"Nature\"], \"description\": \"Get ready to experience the thrill of outdoor adventures in one of the world's most beautiful natural settings. From hiking and camping to white-water rafting, this journey takes you to the heart of nature and offers an adrenaline rush like no other.\", \"isFeaturedPost\": true, \"timeOfPost\": \"2023-10-04T14:33:21.700Z\"}, {"id": "653441167c11e03b70e9161c", "authorName": "David Wilson", "title": "Exploring London: Adventures Exploring the Great Outdoors", "imageLink": "https://i.ibb.co/04g42nn/FPo-BOR-100-800x600.webp", "categories": "[\"Travel\", \"Adventure\", \"Nature\"], \"description\": \"Get ready to experience the thrill of outdoor adventures in one of the world's most beautiful natural settings. From hiking and camping to white-water rafting, this journey takes you to the heart of nature and offers an adrenaline rush like no other.\", \"isFeaturedPost\": true, \"timeOfPost\": \"2023-10-04T14:33:21.700Z\"}, {"id": "653441167c11e03b70e9161e", "authorName": "Ella Davis", "title": "Serenity in Nature: Finding Peace Amidst Scenic Beauty", "imageLink": "https://i.ibb.co/04g42nn/FPo-BOR-100-800x600.webp", "categories": "[\"Nature\", \"Scenic\", \"Tranquill\"], \"description\": \"Find solace and serenity in the heart of nature's most scenic landscapes. This journey through the Maldives promises to be a peaceful adventure, filled with moments of tranquility and relaxation.\", \"isFeaturedPost\": true, \"timeOfPost\": \"2023-09-11T14:33:21.700Z\"}, {"id": "653441167c11e03b70e91621", "authorName": "Sophia White", "title": "City Lights: A Spectacle After Dark", "imageLink": "https://i.ibb.co/kLwFZzG/Maldives-1024x767.webp", "categories": "[\"Travel\", \"City\", \"Night\"], \"description\": \"Experience the vibrant energy of cities after dark. The city lights, bustling streets, and lively nightlife create a spectacle that must be seen to be believed. Join us for a journey through the electric lights of urban hubs.\", \"isFeaturedPost\": false, \"timeOfPost\": \"2023-05-26T14:33:21.700Z\"}, {"id": "653441167c11e03b70e91622", "authorName": "Michael Clark", "title": "Mountain Adventures: Scaling Heights and Challenging Peaks", "imageLink": "https://i.ibb.co/04g42nn/FPo-BOR-100-800x600.webp", "categories": "[\"Travel\", \"Adventure\", \"Mountain\"], \"description\": \"Embark on thrilling mountain adventures in some of the world's most spectacular mountain ranges. From trekking through alpine meadows to conquering challenging peaks, this journey takes you to new heights in the world of adventure.\", \"isFeaturedPost\": false, \"timeOfPost\": \"2023-11-27T14:33:21.700Z\"}, {"id": "653441167c11e03b70e91620", "authorName": "Robert Johnson", "title": "Chasing Sunsets: The Beauty of Evening by the Ocean", "imageLink": "https://i.ibb.co/04g42nn/FPo-BOR-100-800x600.webp", "categories": "[\"Travel\", \"Sunset\", \"Evening\"], \"description\": \"Witness the beauty of sunsets as they dip below the horizon, and paint the sky with hues of orange, pink, and gold. This journey captures the magical moments of evening by the sea.\", \"isFeaturedPost\": false, \"timeOfPost\": \"2023-03-25T14:33:21.700Z\"}, {"id": "653441167c11e03b70e91624", "authorName": "William Harris", "title": "Forest Retreat: Discovering Peace in Nature's Embrace", "imageLink": "https://i.ibb.co/kLwFZzG/Maldives-1024x767.webp", "categories": "[\"Nature\", \"Forests\", \"Retreat\"], \"description\": \"Find solace in the tranquility of the forest. This retreat into nature's arms allows you to disconnect from the bustling world and discover the peace and beauty of the natural environment.\", \"isFeaturedPost\": false, \"timeOfPost\": \"2023-09-05T14:33:21.700Z\"}, {"id": "653441167c11e03b70e91623", "authorName": "Sarah Thompson", "title": "Exploring Ancient Landmarks", "imageLink": "https://i.ibb.co/04g42nn/FPo-BOR-100-800x600.webp", "categories": "[\"Travel\", \"History\", \"Landmarks\"], \"description\": \"Embark on a journey to explore historical sites and ancient landmarks that tell the stories of civilizations past. Uncover the secrets of the past as you visit historic sites and delve into the mysteries of history.\", \"isFeaturedPost\": false, \"timeOfPost\": \"2023-11-11T14:33:21.700Z\"]"]

## 6. Enter to frontend file:

- *cd .. /frontend/*

OR

*cd frontend/*

- ## ➤ Insert data into .env :

- `cat > .env`

VITE API PATH=http://localhost:8080

The screenshot shows the AWS CloudWatch Logs interface with the following log content:

```
root@ip-172-31-44-35:/media/wanderLust-NodeJS# ls
README.md backend docker-compose.yml frontend package.json
root@ip-172-31-44-35:/media/wanderLust-NodeJS# cd frontend/
root@ip-172-31-44-35:/media/wanderLust-NodeJS/frontend# ls -a
. .eslintrc.cjs .prettierrc components.json jest.config.ts public test-setup.ts tsconfig.prod.json
.. .gitignore Dockerfile eslint.config.js package.json src tsconfig.json vercel.json
.babelrc .prettierignore README.md index.html postcss.config.js tailwind.config.js tsconfig.node.json vite.config.ts
root@ip-172-31-44-35:/media/wanderLust-NodeJS/frontend# cat > .env
VITE_API_PATH="http://localhost:8080"
root@ip-172-31-44-35:/media/wanderLust-NodeJS/frontend#
```

- #### ➤ Connect backend server:

- *vim .env*

A screenshot of the AWS Management Console. The top navigation bar includes the AWS logo, a search bar with placeholder text 'Search' and a keyboard shortcut '[Alt+S]', and links for Mumbai and user 'Soham @ 0105-2627-6894'. Below this is a secondary navigation bar with icons for various services: IAM, EC2, S3, RDS, VPC, Route 53, CloudFront, CloudWatch, EFS, Certificate Manager, Elastic Beanstalk, Billing and Cost Management, and Elastic Kubernetes Service. A status message at the bottom left says 'VITE\_API\_PATH="http://13.232.140.129:8080"' and 'Mention Backend < IP:PORT >'. The bottom of the screen shows a terminal-like interface with a prompt starting with a tilde (~).

- Install all the required dependencies:

- *npm install* ( wait for 2-3 min to load packages)

```
aws Services Search [Alt+S] Mumbai Soham @ 0105-2627-6894
IAM EC2 S3 RDS VPC Route 53 CloudFront CloudWatch EFS Certificate Manager Elastic Beanstalk Billing and Cost Management Elastic Kubernetes Service
root@ip-172-31-44-35:/media/wanderlust/NodeJS/frontend# npm install
npm WARN deprecated request@2.88.2: request has known security issues and leaks memory. Do not use it. Check out iRU-cache if you want a good and tested way to coalesce requests by a key.
npm warn deprecated glob@0.7.2:3: Glob versions prior to v9 are no longer supported
npm warn deprecated abab@0.2.6: Use your platform's native atob() and btoa() methods instead
npm warn deprecated domexception@0.1.0: Use your platform's native DOMException instead
npm warn deprecated draft-ietf-httpbis-rmrf@0.1.2: Rmrf versions prior to v4.0.0 are no longer supported
npm warn deprecated @humanwhocodes/object-schemas@2.0.3: Use @eslint/object-schema instead
npm warn deprecated @humanwhocodes/config-array@0.11.14: Use @eslint/config-array instead

> frontend@0.0.0 prepare
> cd .. && npm install

> prepare
> husky install && chmod ugo+x .husky/*
husky - Git hooks installed

added 32 packages, and audited 33 packages in 8s

8 packages are looking for funding
  run 'npm fund' for details

found 0 vulnerabilities

added 1235 packages, and audited 1236 packages in 2m
  i-0c8325c5a7b574ea9 (wanderlust)
PublicIPs: 13.232.140.129 PrivateIPs: 172.31.44.35
```

- Run the frontend with background process:

- *nohup npm run dev -- --host & + Enter*

```

aws Services Search [Alt+S] Mumbai ▾ Soham @ 0105-2627-6894 ▾
IAM EC2 S3 RDS VPC Route 53 CloudFront CloudWatch EFS Certificate Manager Elastic Beanstalk Billing and Cost Management Elastic Kubernetes Service
root@ip-172-31-44-35:/media/wanderLust-NodeJS/frontend# ls -a
.
.. .eslintrc.cjs Dockerfile index.html package-lock.json src tailwind.config.js tsconfig.node.json
.gitignore README.md jest.config.ts package.json test-setup.ts tsconfig.prod.json
.babelrc .prettierignore components.json node_modules postcss.config.js public vercel.json
.env .prettierrc eslint.config.js nohup.out vite.config.ts
root@ip-172-31-44-35:/media/wanderLust-NodeJS/frontend# npm run dev -- --host

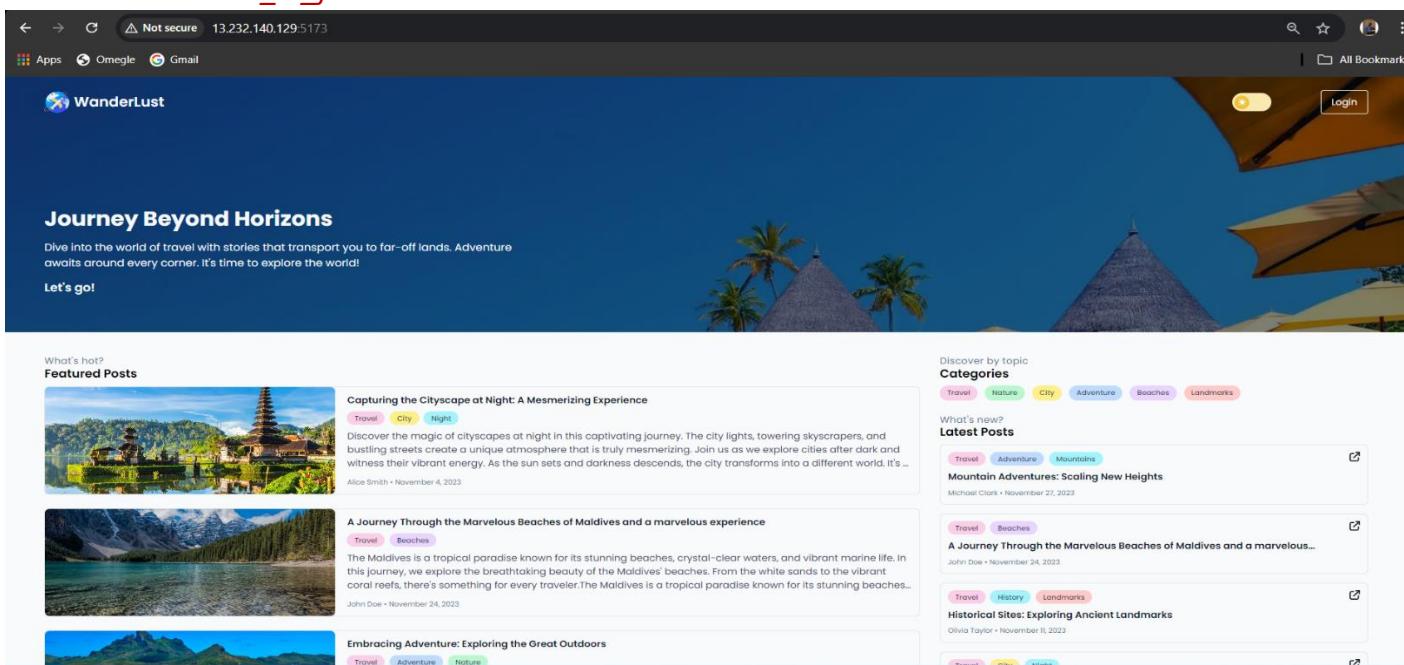
> frontend@0.0.0 dev
> vite --host

VITE v4.5.3 ready in 375 ms
→ Local: http://localhost:5173/
→ Network: http://172.31.44.35:5173/
→ press h to show help

```

- Access the wanderlust project on Browser:

- *<Public\_IP\_frontend>:5173*



#### TIPS:

- ⊕ If your wanderlust application is deployed but data is unavailable please follow below steps to troubleshoot:
  - Enter to the backend server and just check process of **npm start** is running, Please kill it:
    - *ps*
    - *kill -9 <pid>*
  - Restart the backend server:
    - *npm start*
- Check connection of **<backend\_IP>** in **.env** of both backend and frontend server
- Check status of MongoDB is properly running
  - *sudo systemctl status mongod*
  - *sudo systemctl restart mongod*
  - *mongosh*