Project Documentation: Nginx Reverse Proxy + Docker Compose

📌 Project Overview

We created a Docker Compose-based microservices setup with:

- Golang Service (Service 1)
- Python Flask Service (Service 2)
- Nginx Reverse Proxy

Where:

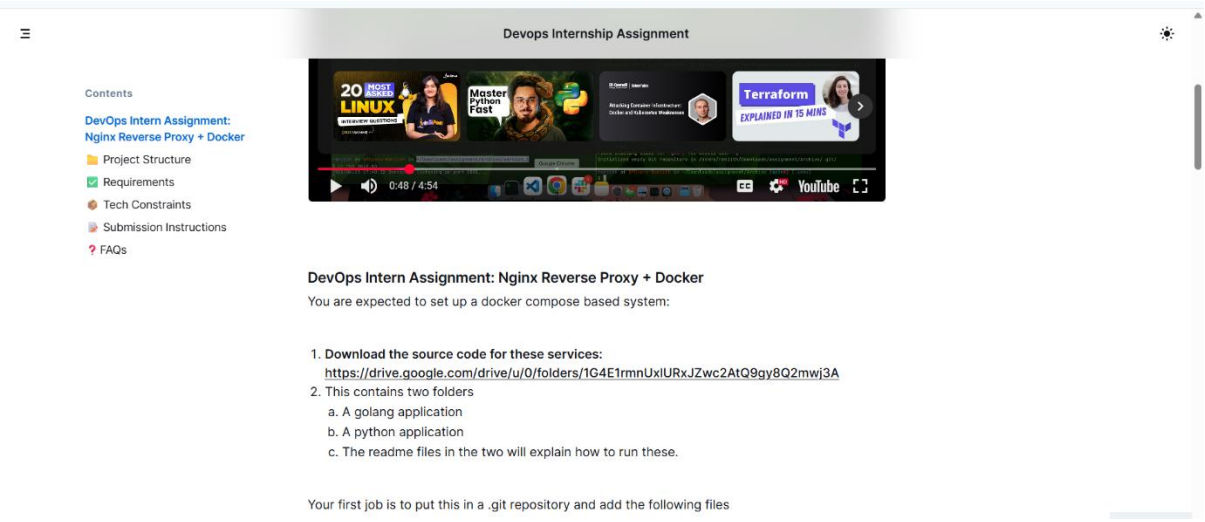
- Requests to /service1 are routed to Service 1 (port 8001)
- Requests to /service2 are routed to Service 2 (port 8002)
- All services are accessible via a single port (8080) on an AWS EC2 instance.

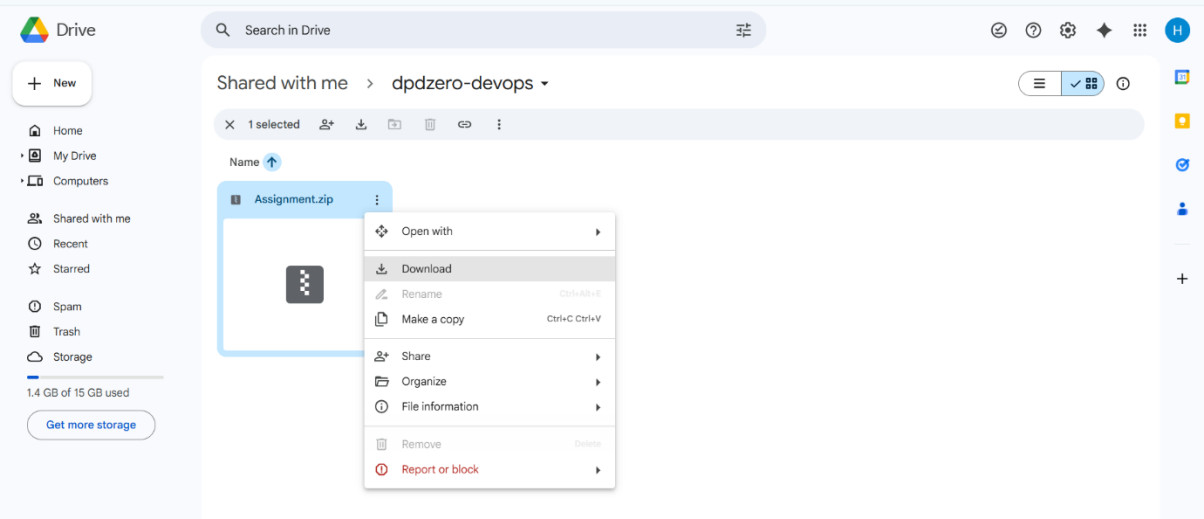
📌 Tech Stack

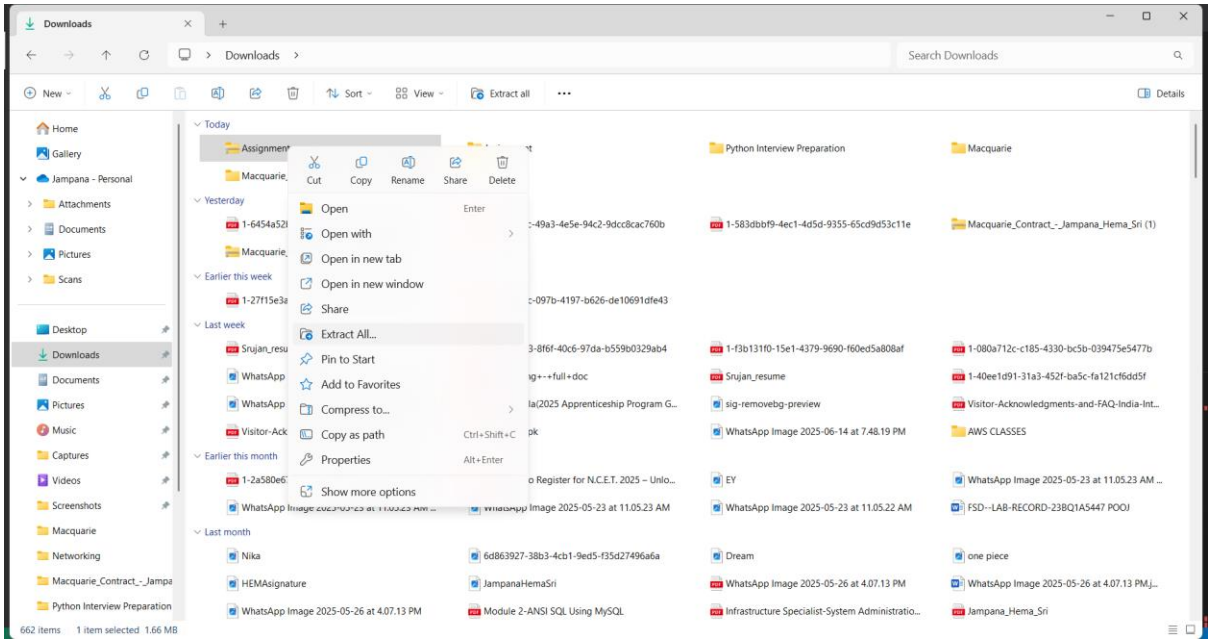
- AWS EC2 (Ubuntu 22.04)
- Docker
- Docker Compose
- Golang
- Python + Flask
- Nginx (in Docker)
- SSH for GitHub (using SSH keys)

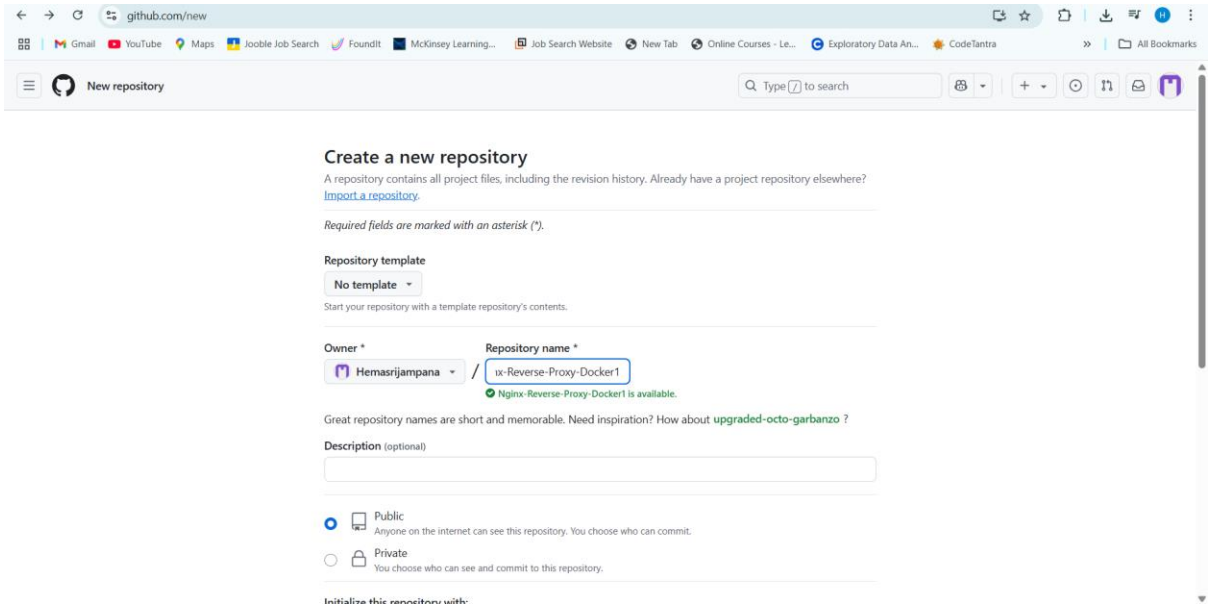
🕮 Step-by-Step Process

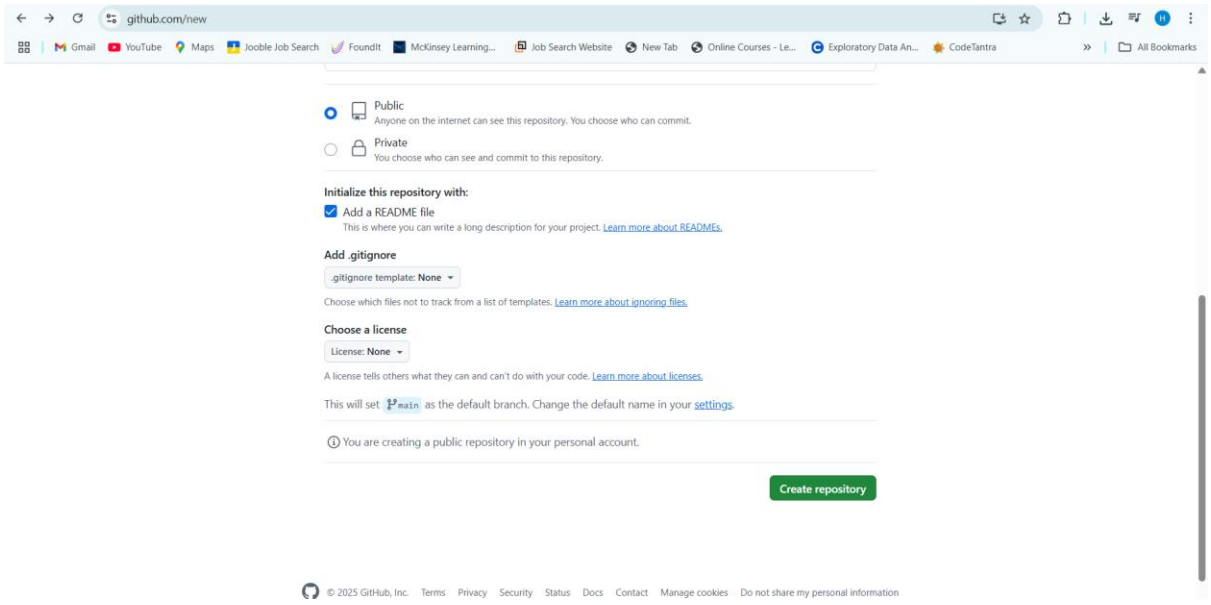
STEP 1 : Extracting the file, creating a Git Repository and Pushing the file into GitHub

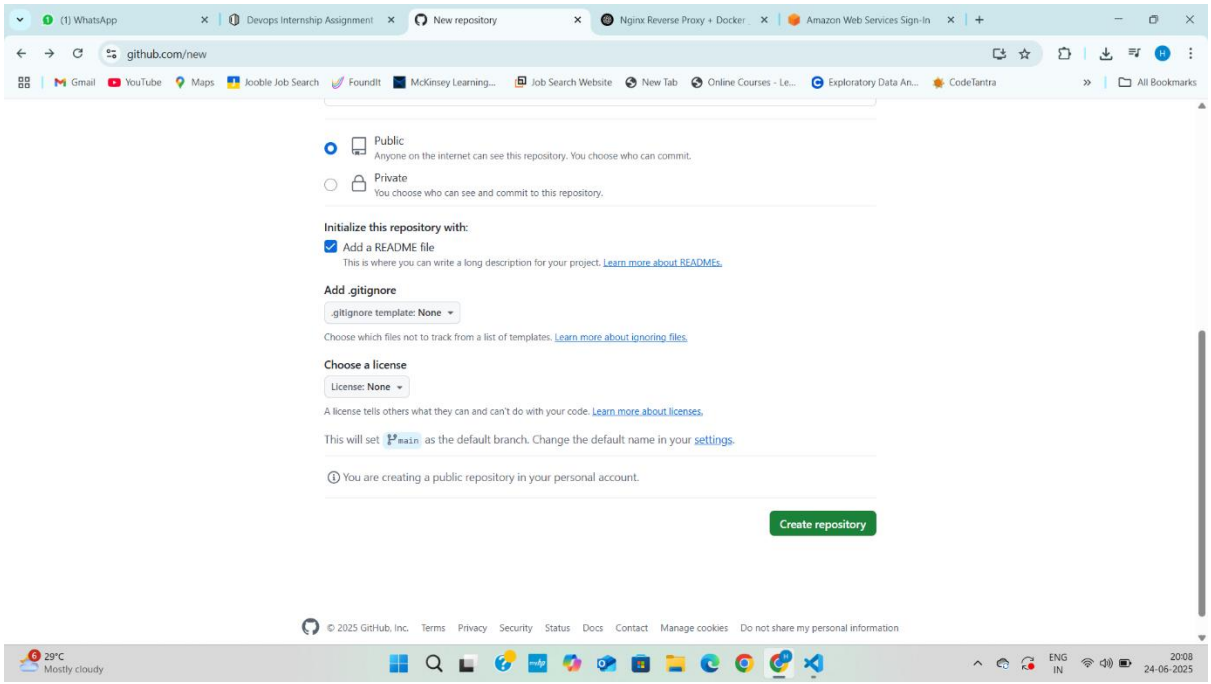





Downloads
Search Downloads
New
Sort
View
Extract all
Details
Home
Gallery
Jampana - Personal
Attachments
Documents
Pictures
Scans
Desktop
Downloads
Documents
Pictures
Music
Captures
Videos
Screenshots
Macquarie
Networking
Python Interview Preparation
662 items
1 item selected 1.66 MB
Cut
Copy
Rename
Share
Delete
Open
Open with
Open in new tab
Open in new window
Share
Extract All...
Pin to Start
Add to Favorites
Compress to...
Copy as path
Properties
Show more options
Today
Yesterday
Earlier this week
Last week
Earlier this month
Last month
Python Interview Preparation
Macquarie
Macquarie_Contract_-_Jampana_Hema_Sri (1)
1-583dbbf9-4ec1-4d5d-9355-65cd9d53c11e
1-f3b131f0-15e1-4379-9690-f60ed5a808af
1-080a712c-c185-4330-bc5b-039475e5477b
Srujan_resume
1-40ee1d91-31a3-452f-ba5c-fa121cf6dd5f
sig-removebg-preview
Visitor-Acknowledgments-and-FAQ-India-Int...
WhatsApp Image 2025-06-14 at 7.48.19 PM
AWS CLASSES
EY
WhatsApp Image 2025-05-23 at 11.05.23 AM ...
WhatsApp Image 2025-05-23 at 11.05.23 AM
WhatsApp Image 2025-05-23 at 11.05.22 AM
FSD--LAB-RECORD-23BQ1A5447 POOJ
Nika
6d863927-38b3-4cb1-9ed5-f35d27496a6a
Dream
one piece
HEMAsignature
JampanaHemaSri
WhatsApp Image 2025-05-26 at 4.07.13 PM
WhatsApp Image 2025-05-26 at 4.07.13 PM.j...
WhatsApp Image 2025-05-26 at 4.07.13 PM
Module 2-ANSI SQL Using MySQL
Infrastructure Specialist-System Administratio...
Jampana_Hema_Sri


github.com/new
Gmail
YouTube
Maps
Jooble Job Search
FoundIt
McKinsey Learning...
Job Search Website
New Tab
Online Courses - Le...
Exploratory Data An...
CodeTantra
All Bookmarks
New repository
Type / to search
Create a new repository
A repository contains all project files, including the revision history. Already have a project repository elsewhere?
Import a repository.
Required fields are marked with an asterisk (*).
Repository template
No template
Start your repository with a template repository's contents.
Owner *
Repository name *
Hemasrijampana
/
ix-Reverse-Proxy-Docker1
Nginx-Reverse-Proxy-Docker1 is available.
Great repository names are short and memorable. Need inspiration? How about upgraded-octo-garbanzo ?
Description (optional)
Public
Anyone on the internet can see this repository. You choose who can commit.
Private
You choose who can see and commit to this repository.


github.com/new
Gmail
YouTube
Maps
Jooble Job Search
FoundIt
McKinsey Learning...
Job Search Website
New Tab
Online Courses - Le...
Exploratory Data An...
CodeTantra
All Bookmarks
Public
Anyone on the internet can see this repository. You choose who can commit.
Private
You choose who can see and commit to this repository.
Initialize this repository with:
Add a README file
This is where you can write a long description for your project. Learn more about READMEs.
Add .gitignore
.gitignore template: None
Choose which files not to track from a list of templates. Learn more about ignoring files.
Choose a license
License: None
A license tells others what they can and can't do with your code. Learn more about licenses.
This will set main as the default branch. Change the default name in your settings.
You are creating a public repository in your personal account.
Create repository
© 2025 GitHub, Inc. Terms Privacy Security Status Docs Contact Manage cookies Do not share my personal information


(1) WhatsApp
Devops Internship Assignment
New repository
Nginx Reverse Proxy + Docker
Amazon Web Services Sign-In
github.com/new
Gmail
YouTube
Maps
Jooble Job Search
FoundIt
McKinsey Learning...
Job Search Website
New Tab
Online Courses - Le...
Exploratory Data An...
CodeTantra
All Bookmarks
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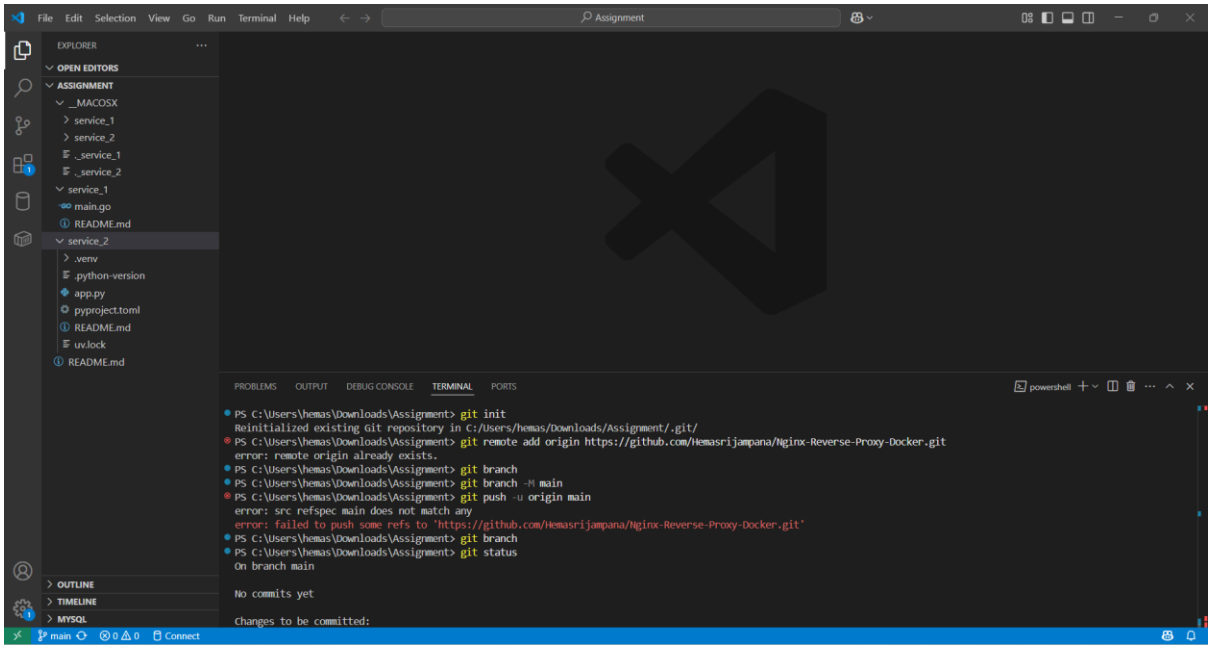
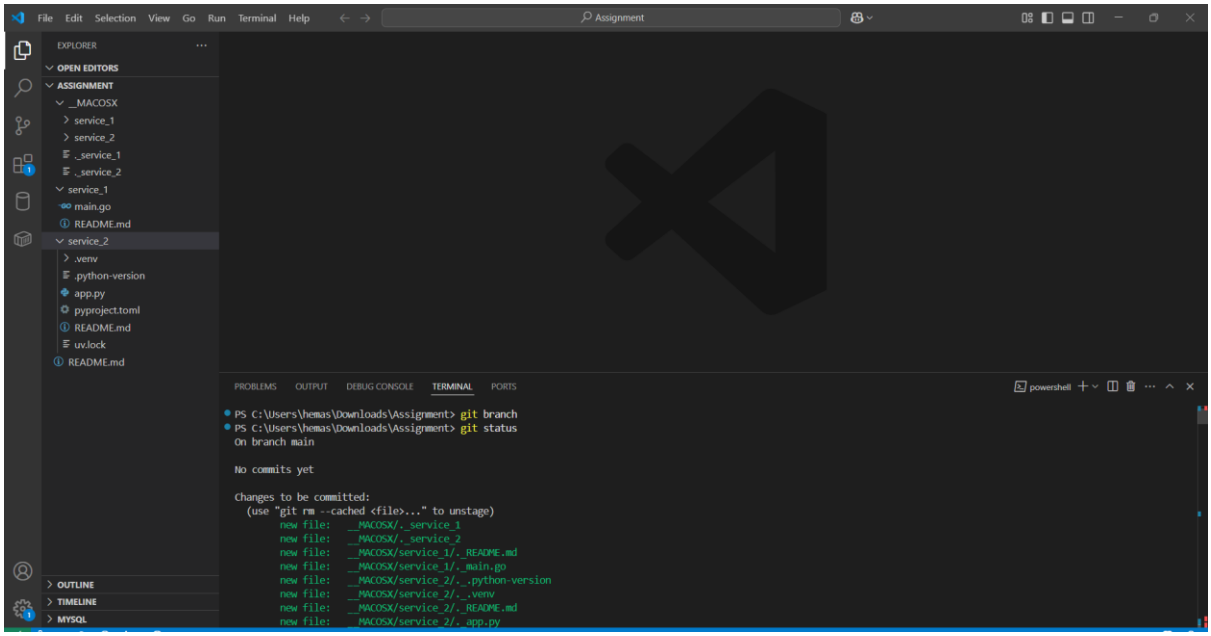
You choose who can see and commit to this repository.
Initialize this repository with:
Add a README file
This is where you can write a long description for your project. Learn more about READMEs.
Add .gitignore
.gitignore template: None
Choose which files not to track from a list of templates. Learn more about ignoring files.
Choose a license
License: None
A license tells others what they can and can't do with your code. Learn more about licenses.
This will set main as the default branch. Change the default name in your settings.
You are creating a public repository in your personal account.
Create repository
© 2025 GitHub, Inc. Terms Privacy Security Status Docs Contact Manage cookies Do not share my personal information
29°C
Mostly cloudy
ENG
IN
20:08
24-06-2025


File Edit Selection View Go Run Terminal Help
Assignment
EXPLORER
OPEN EDITORS
ASSIGNMENT
__MACOSX
service_1
service_2
._service_1
._service_2
service_1
main.go
README.md
service_2
.venv
.python-version
app.py
pyproject.toml
README.md
uv.lock
README.md
OUTLINE
TIMELINE
MYSQL
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
powershell
PS C:\Users\hemas\Downloads\Assignment> git init
Reinitialized existing Git repository in C:/Users/hemas/Downloads/Assignment/.git/
PS C:\Users\hemas\Downloads\Assignment> git remote add origin https://github.com/Hemasrijampana/Nginx-Reverse-Proxy-Docker.git
error: remote origin already exists.
PS C:\Users\hemas\Downloads\Assignment> git branch
PS C:\Users\hemas\Downloads\Assignment> git branch -M main
PS C:\Users\hemas\Downloads\Assignment> git push -u origin main
error: src refspec main does not match any
error: failed to push some refs to 'https://github.com/Hemasrijampana/Nginx-Reverse-Proxy-Docker.git'
PS C:\Users\hemas\Downloads\Assignment> git branch
PS C:\Users\hemas\Downloads\Assignment> git status
On branch main
No commits yet
Changes to be committed:
main
0 0
Connect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ASSIGNMENT
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service_1
service_2
._service_1
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service_1
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service_2
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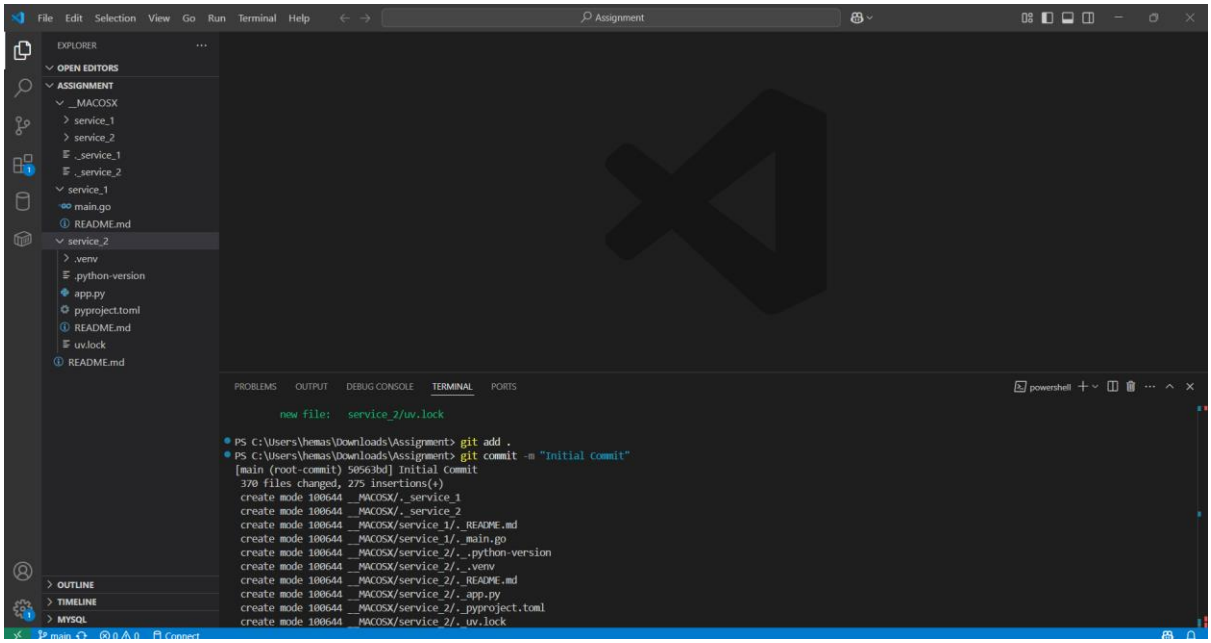
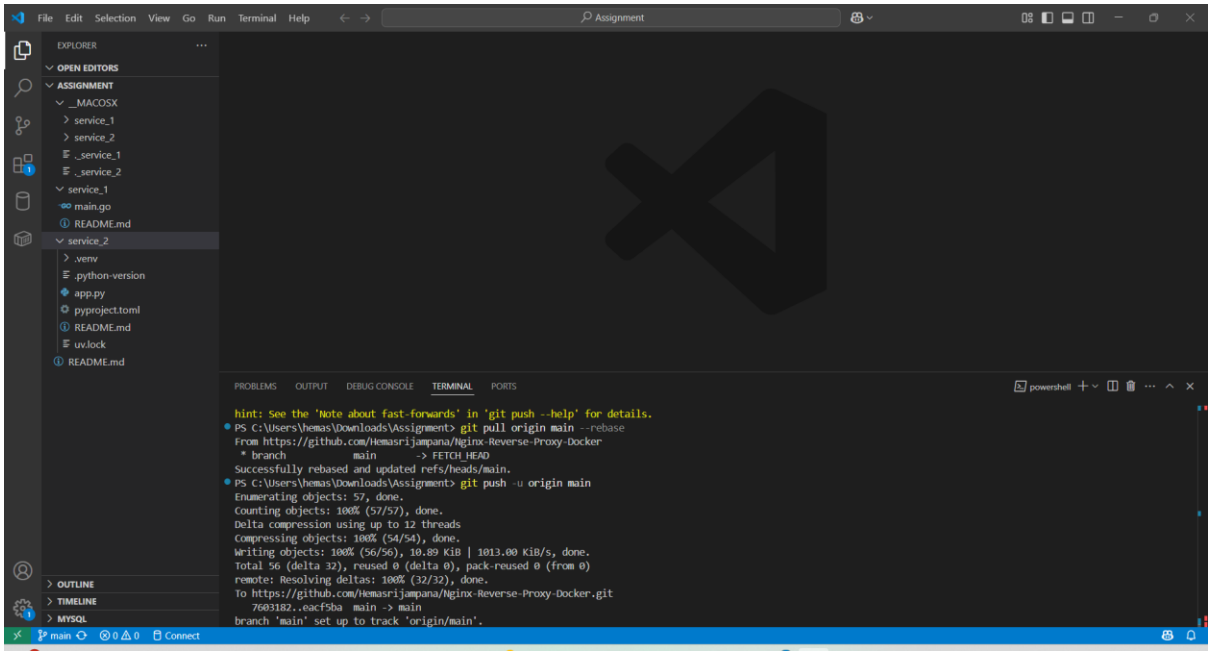
pyproject.toml
README.md
uv.lock
README.md
OUTLINE
TIMELINE
MYSQL
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
powershell
PS C:\Users\hemas\Downloads\Assignment> git branch
PS C:\Users\hemas\Downloads\Assignment> git status
On branch main
No commits yet
Changes to be committed:
(use "git rm --cached <file>..." to unstage)
new file: __MACOSX/._service_1
new file: __MACOSX/._service_2
new file: __MACOSX/service_1/._README.md
new file: __MACOSX/service_1/._main.go
new file: __MACOSX/service_2/._.python-version
new file: __MACOSX/service_2/._.venv
new file: __MACOSX/service_2/._README.md
new file: __MACOSX/service_2/._app.py


File Edit Selection View Go Run Terminal Help
Assignment
EXPLORER
OPEN EDITORS
ASSIGNMENT
__MACOSX
service_1
service_2
._service_1
._service_2
service_1
main.go
README.md
service_2
.venv
.python-version
app.py
pyproject.toml
README.md
uv.lock
README.md
OUTLINE
TIMELINE
MYSQL
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
powershell
new file: service_2/uv.lock
PS C:\Users\hemas\Downloads\Assignment> git add .
PS C:\Users\hemas\Downloads\Assignment> git commit -m "Initial Commit"
[main (root-commit) 50563bd] Initial Commit
370 files changed, 275 insertions(+)
create mode 100644 __MACOSX/._service_1
create mode 100644 __MACOSX/._service_2
create mode 100644 __MACOSX/service_1/._README.md
create mode 100644 __MACOSX/service_1/._main.go
create mode 100644 __MACOSX/service_2/._.python-version
create mode 100644 __MACOSX/service_2/._.venv
create mode 100644 __MACOSX/service_2/._README.md
create mode 100644 __MACOSX/service_2/._app.py
create mode 100644 __MACOSX/service_2/._pyproject.toml
create mode 100644 __MACOSX/service_2/._uv.lock
main
Connect


File Edit Selection View Go Run Terminal Help
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ASSIGNMENT
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service_1
service_2
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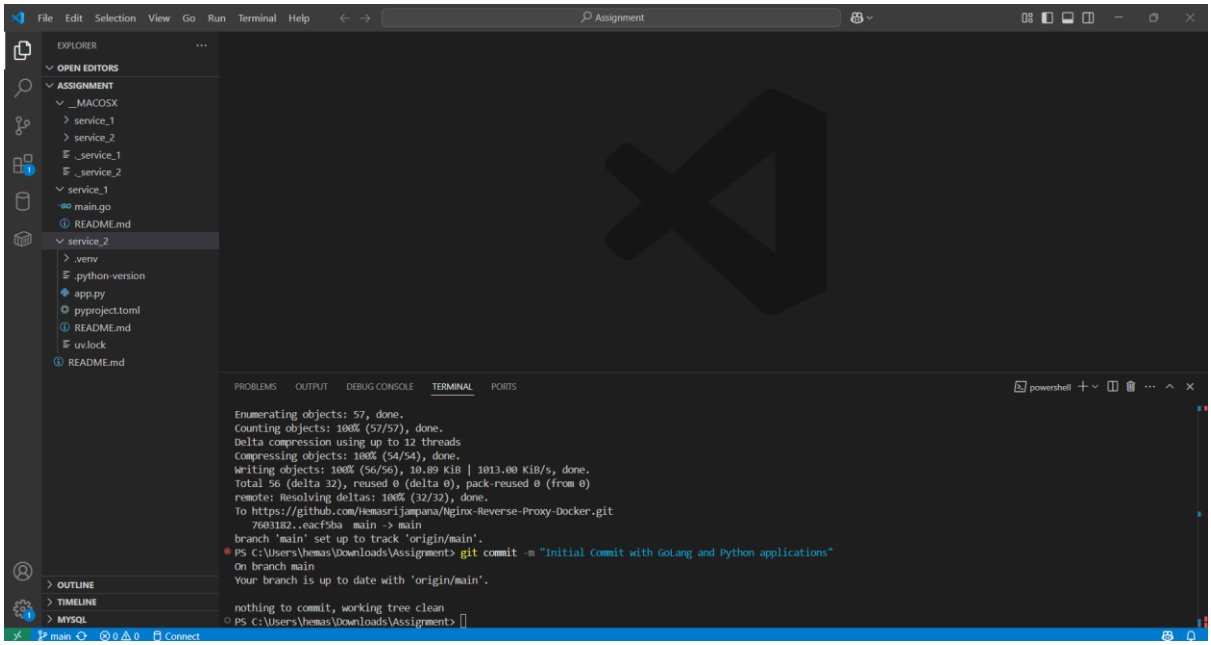
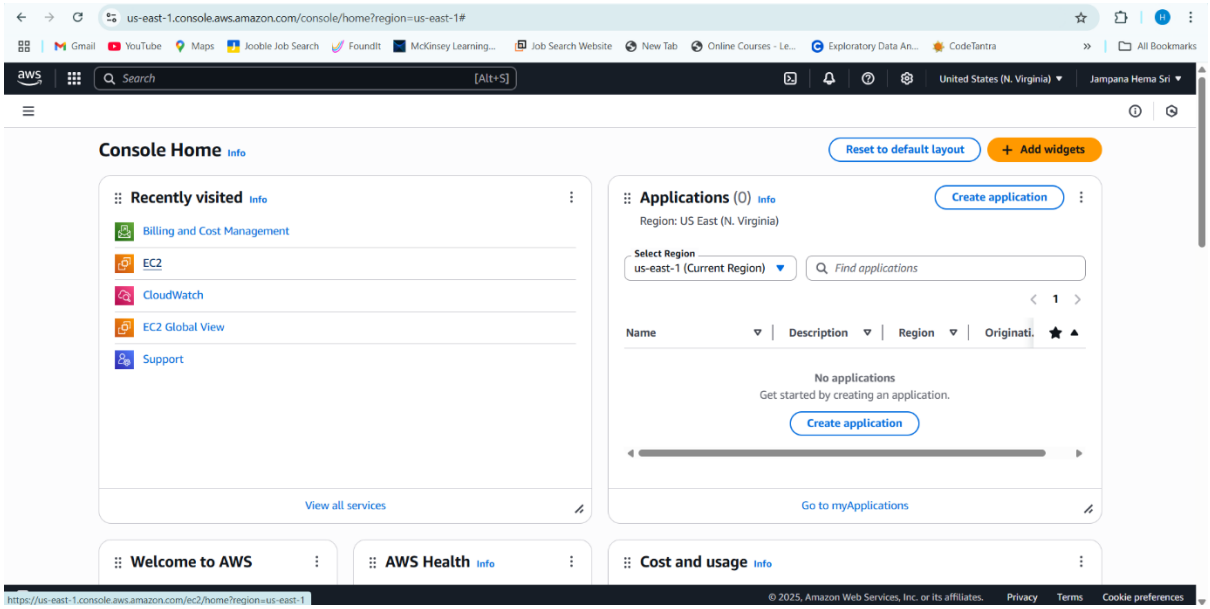
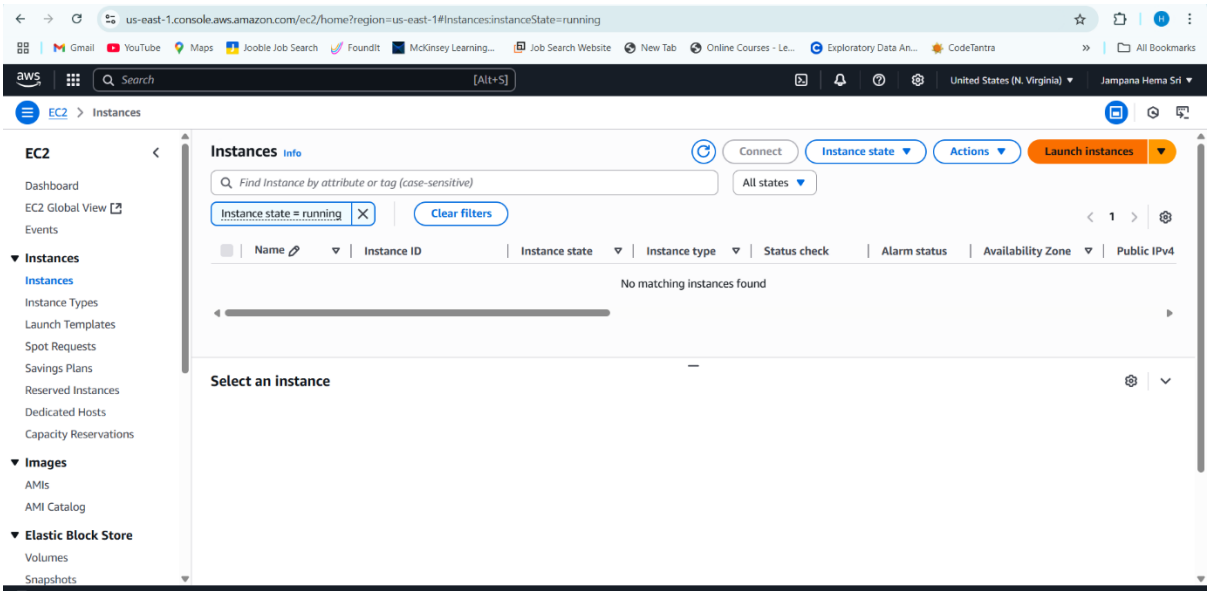
._service_2
service_1
main.go
README.md
service_2
.venv
.python-version
app.py
pyproject.toml
README.md
uv.lock
README.md
OUTLINE
TIMELINE
MYSQL
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
powershell
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
PS C:\Users\hemas\Downloads\Assignment> git pull origin main --rebase
From https://github.com/Hemasrijampana/Nginx-Reverse-Proxy-Docker
* branch main -> FETCH_HEAD
Successfully rebased and updated refs/heads/main.
PS C:\Users\hemas\Downloads\Assignment> git push -u origin main
Enumerating objects: 57, done.
Counting objects: 100% (57/57), done.
Delta compression using up to 12 threads
Compressing objects: 100% (54/54), done.
Writing objects: 100% (56/56), 10.89 KiB | 1013.00 KiB/s, done.
Total 56 (delta 32), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (32/32), done.
To https://github.com/Hemasrijampana/Nginx-Reverse-Proxy-Docker.git
7603182..eacf5ba main -> main
branch 'main' set up to track 'origin/main'.
main
Connect

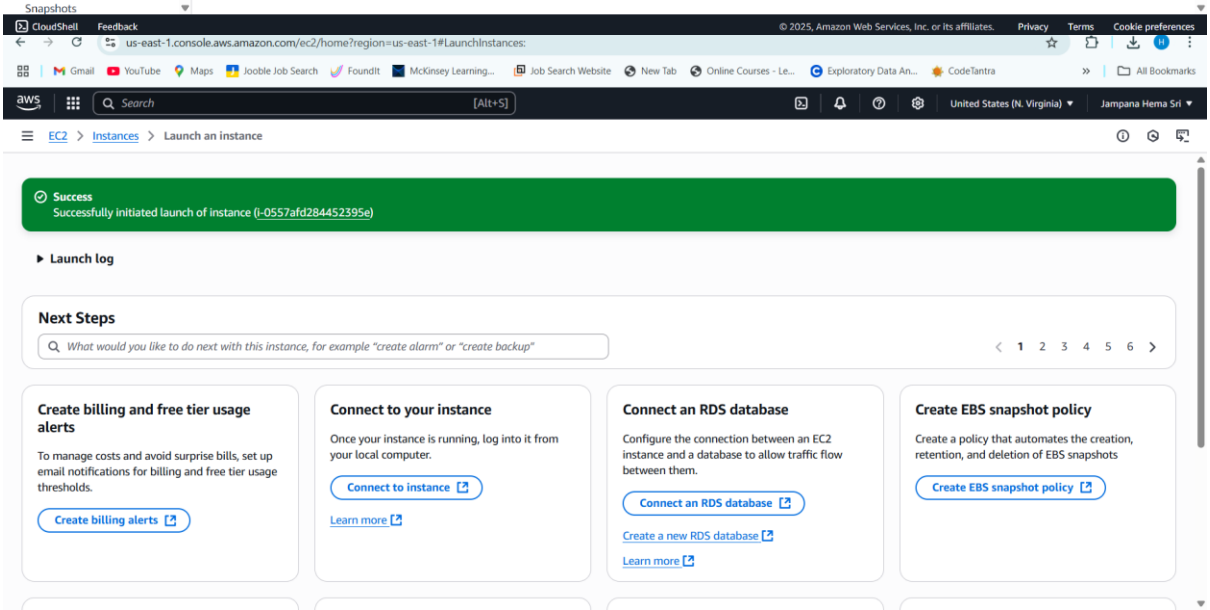


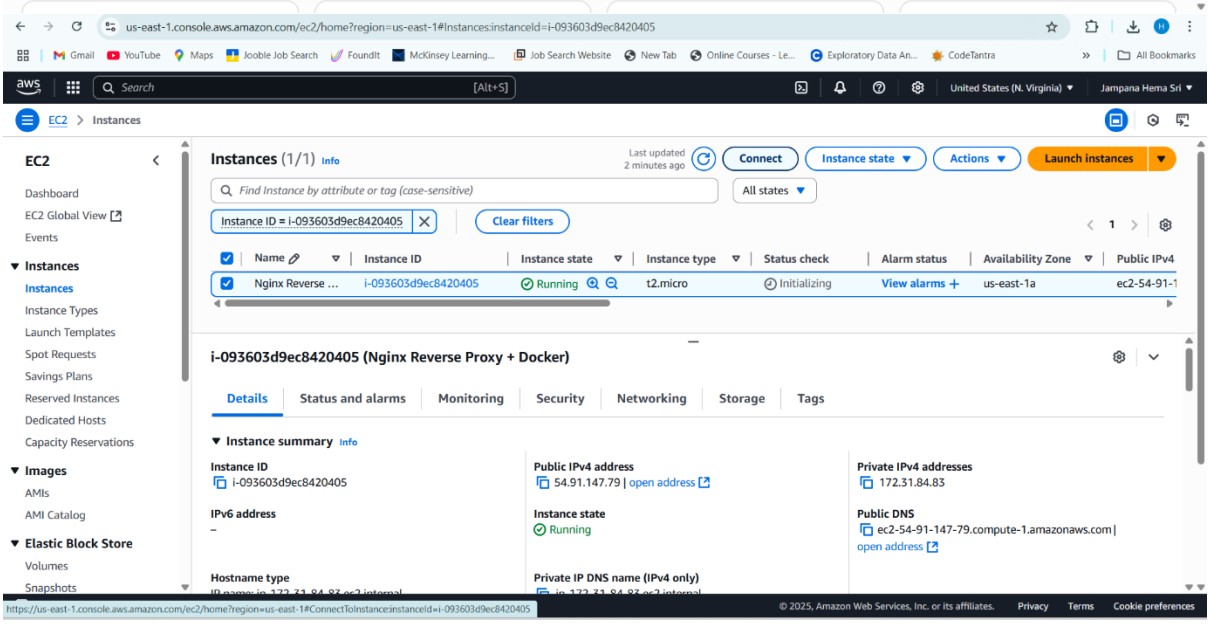
1. Launch an AWS EC2 Instance

- Ubuntu 22.04 or latest version
- Open inbound ports: 22 (SSH) and 8080 (for Nginx proxy) in the EC2 security group.




us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:instanceState=running
EC2 > Instances
Instances Info
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
Availability Zone
Public IPv4
No matching instances found
Select an instance
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


us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:
EC2 > Instances > Launch an instance
Success
Successfully initiated launch of instance (i-0557afd284452395e)
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


us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:instanceId=i-093603d9ec8420405
EC2 > Instances
Instances (1/1) Info
Last updated 2 minutes ago
Connect
Instance state
Actions
Launch instances
Instance ID = i-093603d9ec8420405
Clear filters
Nginx Reverse ...
i-093603d9ec8420405
Running
t2.micro
Initializing
View alarms
us-east-1a
i-093603d9ec8420405 (Nginx Reverse Proxy + Docker)
Details
Status and alarms
Monitoring
Security
Networking
Storage
Tags
Instance summary
Instance ID
i-093603d9ec8420405
Public IPv4 address
54.91.147.79 | open address
Private IPv4 addresses
172.31.84.83
IPv6 address
Instance state
Running
Public DNS
ec2-54-91-147-79.compute-1.amazonaws.com | open address
Hostname type
Private IP DNS name (IPv4 only)

2️⃣ Install Docker & Docker Compose

sudo apt update

sudo apt install docker.io -y

sudo systemctl start docker

sudo systemctl enable docker

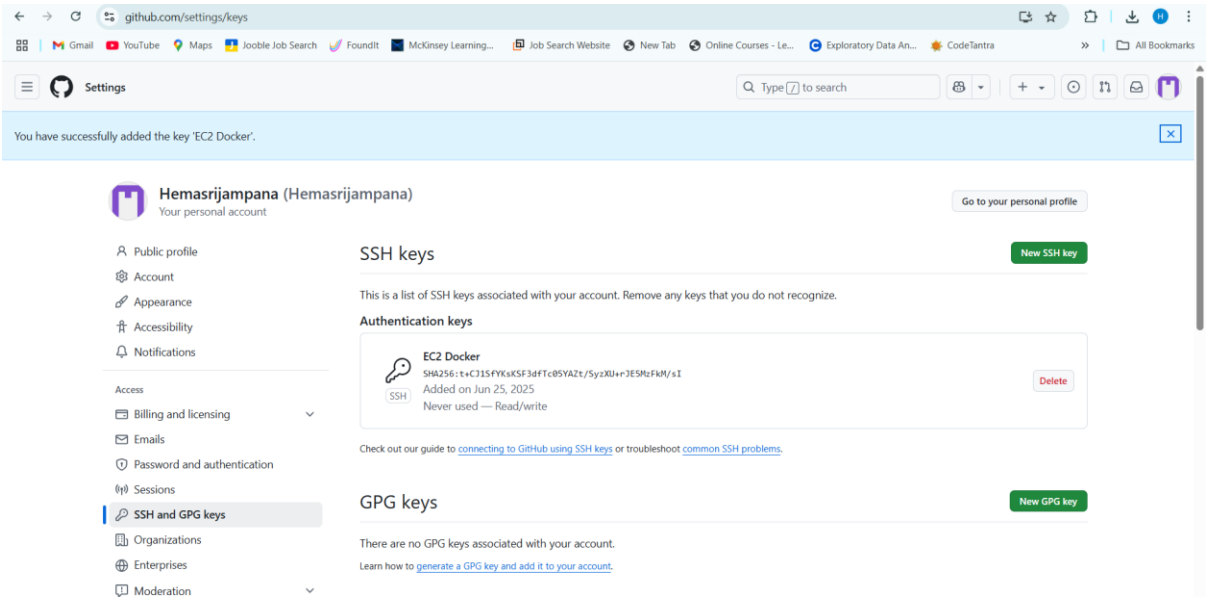
Install docker-compose v2.x

sudo curl -SL https://github.com/docker/compose/releases/download/v2.24.6/docker-compose-linux-x86_64 -o /usr/local/bin/docker-compose

sudo chmod +x /usr/local/bin/docker-compose

docker-compose –version

3️⃣ Set Up SSH Key for GitHub



Generate SSH Key:

ssh-keygen -t rsa -b 4096 -C your-email@example.com

Add SSH public key to GitHub

cat ~/.ssh/id_rsa.pub

Test SSH Access

ssh -T git@github.com

Should respond:
Hi <username>! You've successfully authenticated, but GitHub does not provide shell access.

Clone Repository via SSH

git clone git@github.com:username/repository.git

4️⃣ Project Directory Structure

```
.
├── docker-compose.yml
├── nginx
│   ├── Dockerfile
│   └── nginx.conf
├── service_1
│   ├── Dockerfile
│   └── main.go
├── service_2
│   ├── Dockerfile
│   └── app.py
└── README.md
```

Create Dockerfiles :

service_1/Dockerfile :

```
FROM golang:1.22-alpine

WORKDIR /app

COPY . .

RUN go build -o service1 main.go

EXPOSE 8001

CMD ["./service1"]
```

service_2/Dockerfile :

```
FROM python:3.12-slim

WORKDIR /app

COPY . .

RUN pip install --no-cache-dir flask

EXPOSE 8002

CMD ["python", "app.py"]
```

nginx/Dockerfile

```
FROM nginx:latest

COPY nginx.conf /etc/nginx/nginx.conf
```

6️⃣ Create Nginx Configuration

nginx.conf

```
events {}

http {
    server {
        listen 80;

        location /service1/ {
            proxy_pass http://service1:8001/;
        }

        location /service2/ {
            proxy_pass http://service2:8002/;
        }
    }
}
```

7️⃣ Create Docker Compose File

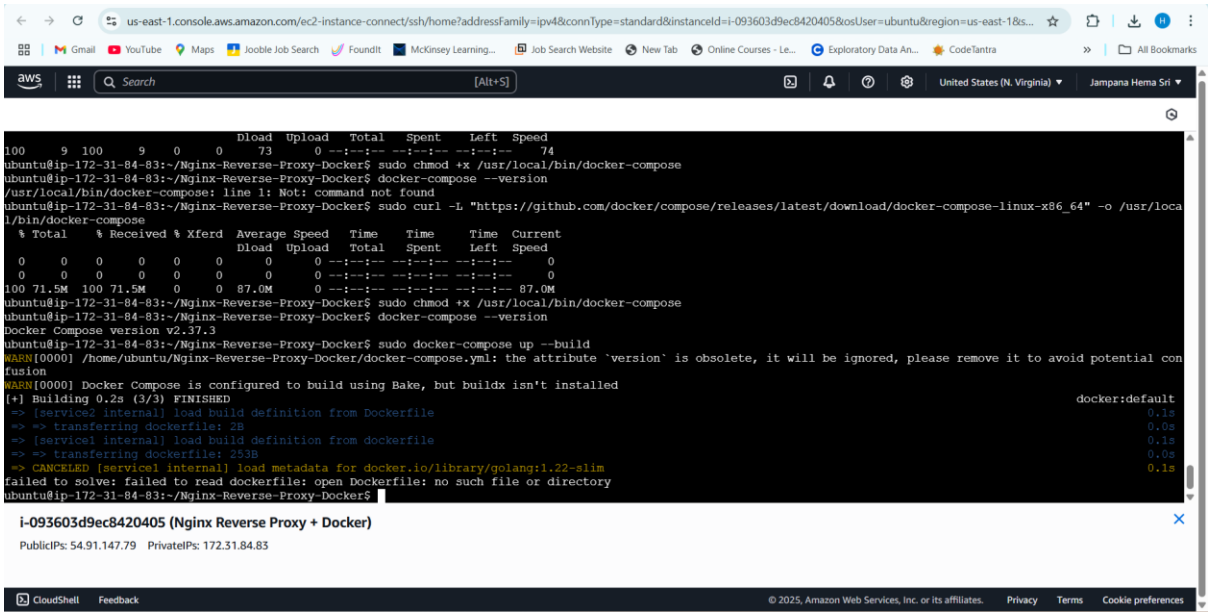
docker-compose.yml

```
services:
  service1:
    build: ./service_1
    container_name: service1
```

```
    ports:
      - "8001:8001"
    healthcheck:
      test: ["CMD", "curl", "-f", "http://localhost:8001/ping"]
      interval: 10s
      retries: 3

  service2:
    build: ./service_2
    container_name: service2
    ports:
      - "8002:8002"
    healthcheck:
      test: ["CMD", "curl", "-f", "http://localhost:8002/ping"]
      interval: 10s
      retries: 3

  nginx:
    build: ./nginx
    container_name: nginx
    ports:
      - "8080:80"
    depends_on:
      - service1
      - service2
```


us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressFamily=ipv4&connType=standard&instanceId=i-093603d9ec8420405&osUser=ubuntu&region=us-east-1&s...
Search
[Alt+S]
United States (N. Virginia)
Jampana Hema Sri
Dload Upload Total Spent Left Speed
100 9 100 9 0 0 73 0 --:--:-- --:--:-- --:--:-- 74
ubuntu@ip-172-31-84-83:~/Nginx-Reverse-Proxy-Docker$ sudo chmod +x /usr/local/bin/docker-compose
ubuntu@ip-172-31-84-83:~/Nginx-Reverse-Proxy-Docker$ docker-compose --version
/usr/local/bin/docker-compose: line 1: Not: command not found
ubuntu@ip-172-31-84-83:~/Nginx-Reverse-Proxy-Docker$ sudo curl -L "https://github.com/docker/compose/releases/latest/download/docker-compose-linux-x86_64" -o /usr/local/bin/docker-compose
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 71.5M 100 71.5M 0 0 87.0M 0 --:--:-- --:--:-- --:--:-- 87.0M
ubuntu@ip-172-31-84-83:~/Nginx-Reverse-Proxy-Docker$ sudo chmod +x /usr/local/bin/docker-compose
ubuntu@ip-172-31-84-83:~/Nginx-Reverse-Proxy-Docker$ docker-compose --version
Docker Compose version v2.37.3
ubuntu@ip-172-31-84-83:~/Nginx-Reverse-Proxy-Docker$ sudo docker-compose up --build
WARN[0000] /home/ubuntu/Nginx-Reverse-Proxy-Docker/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion
WARN[0000] Docker Compose is configured to build using Bake, but buildx isn't installed
[+] Building 0.2s (3/3) FINISHED
docker:default
=> [service2 internal] load build definition from Dockerfile
=> => transferring dockerfile: 2B
=> [service1 internal] load build definition from dockerfile
=> => transferring dockerfile: 253B
=> CANCELED [service1 internal] load metadata for docker.io/library/golang:1.22-slim
failed to solve: failed to read dockerfile: open Dockerfile: no such file or directory
ubuntu@ip-172-31-84-83:~/Nginx-Reverse-Proxy-Docker$
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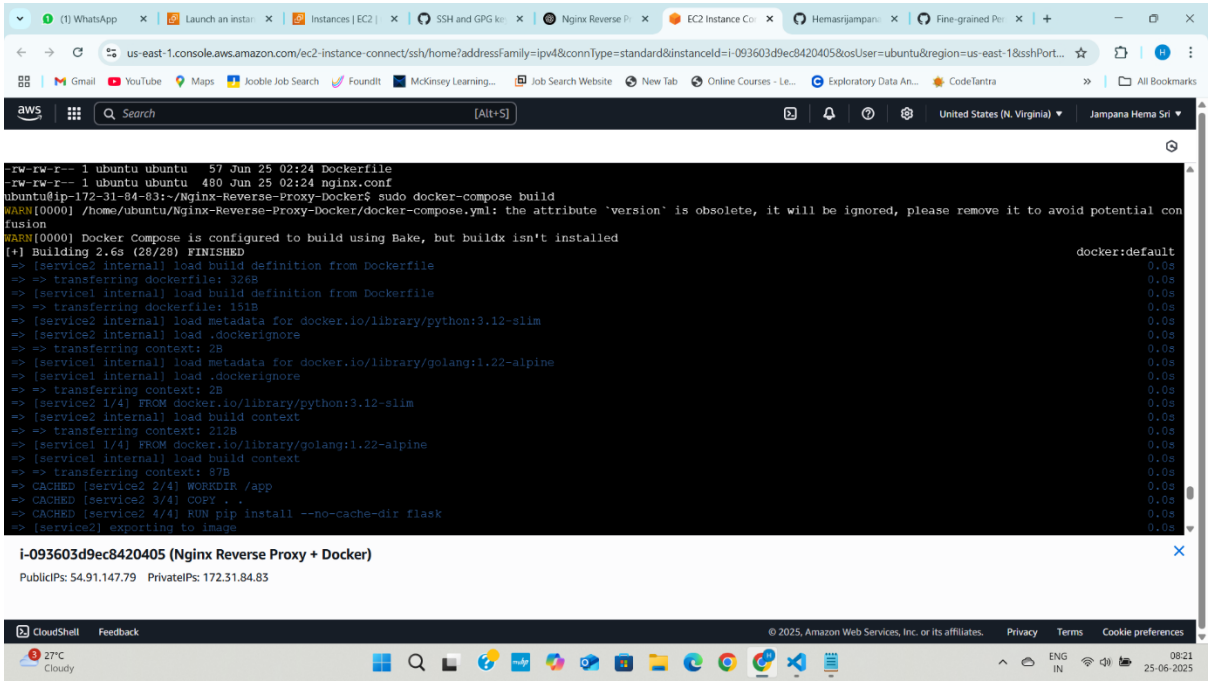
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressFamily=ipv4&connType=standard&instanceId=i-093603d9ec8420405&osUser=ubuntu&region=us-east-1&sshPort...
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-rw-rw-r-- 1 ubuntu ubuntu 57 Jun 25 02:24 Dockerfile
-rw-rw-r-- 1 ubuntu ubuntu 480 Jun 25 02:24 nginx.conf
ubuntu@ip-172-31-84-83:~/Nginx-Reverse-Proxy-Docker$ sudo docker-compose build
WARN[0000] /home/ubuntu/Nginx-Reverse-Proxy-Docker/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion
WARN[0000] Docker Compose is configured to build using Bake, but buildx isn't installed
[+] Building 2.6s (28/28) FINISHED
docker:default
=> [service2 internal] load build definition from Dockerfile
=> => transferring dockerfile: 326B
=> [service1 internal] load build definition from Dockerfile
=> => transferring dockerfile: 151B
=> [service2 internal] load metadata for docker.io/library/python:3.12-slim
=> [service2 internal] load .dockerignore
=> => transferring context: 2B
=> [service1 internal] load metadata for docker.io/library/golang:1.22-alpine
=> [service1 internal] load .dockerignore
=> => transferring context: 2B
=> [service2 1/4] FROM docker.io/library/python:3.12-slim
=> [service2 internal] load build context
=> => transferring context: 212B
=> [service1 1/4] FROM docker.io/library/golang:1.22-alpine
=> [service1 internal] load build context
=> => transferring context: 87B
=> CACHED [service2 2/4] WORKDIR /app
=> CACHED [service2 3/4] COPY . .
=> CACHED [service2 4/4] RUN pip install --no-cache-dir flask
=> [service2] exporting to image
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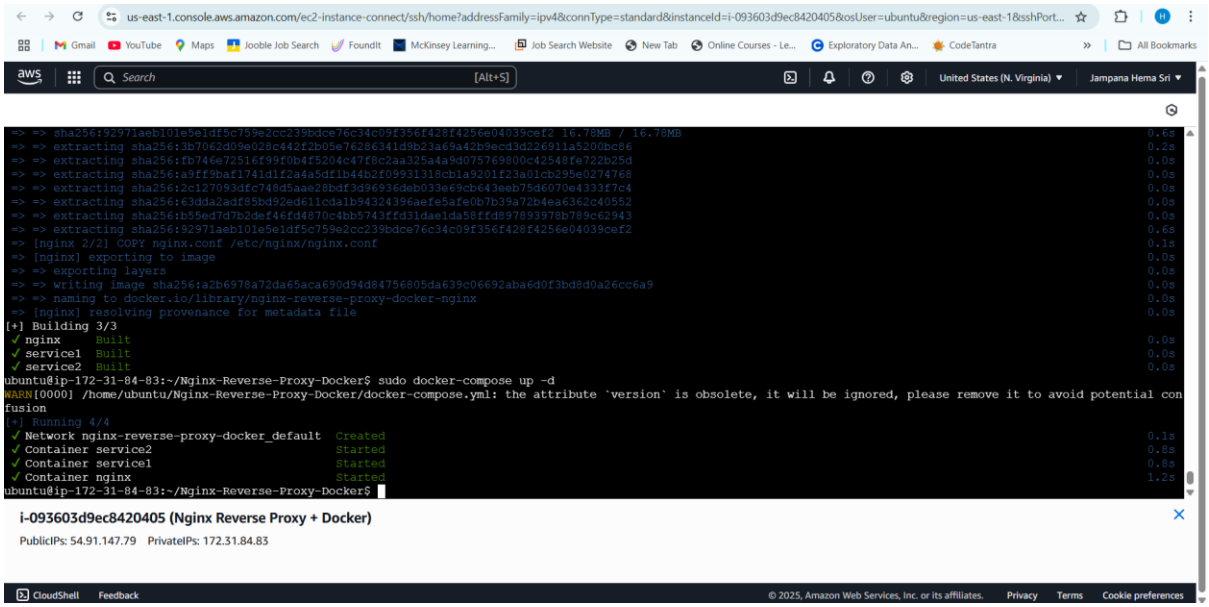


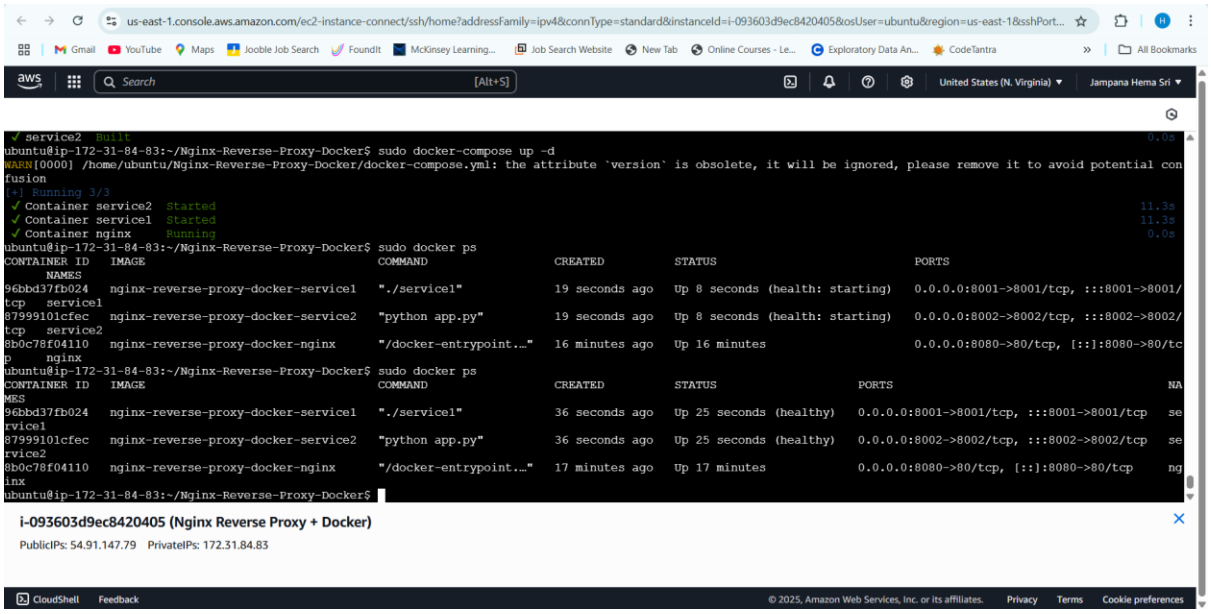
8. Build and Run Containers

sudo docker-compose build

sudo docker-compose up -d

Check running containers:

sudo docker ps



9️⃣ Test the Services

From **EC2 terminal**:

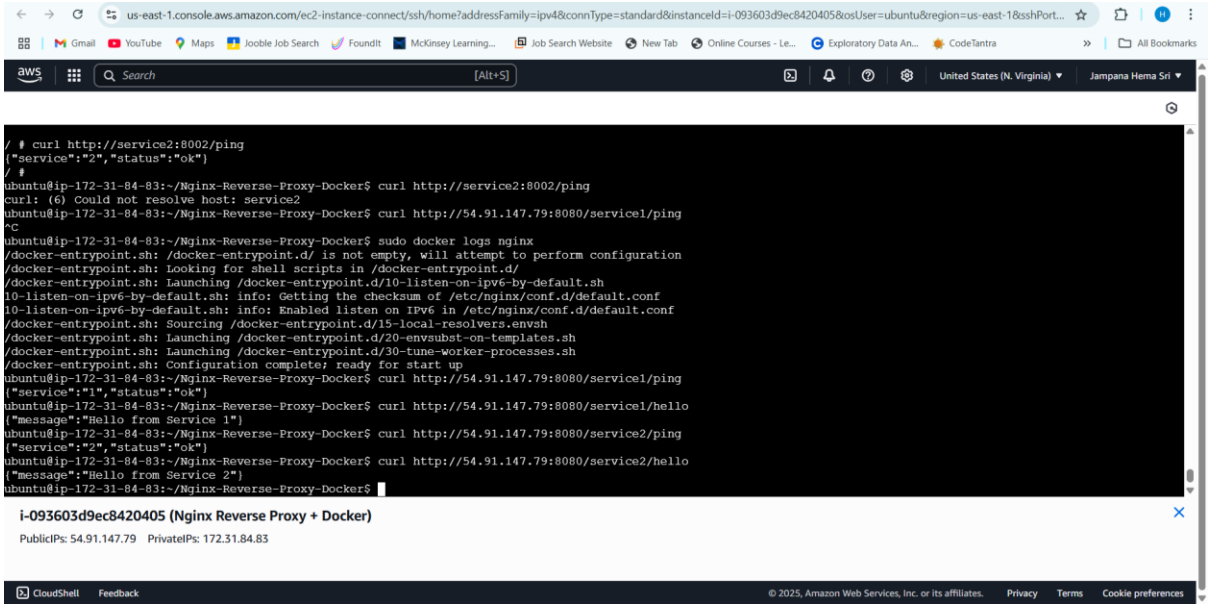
http://<ec2-public-ip>:8080/service1/ping

http://<ec2-public-ip>:8080/service2/ping

Expected Response:

{"status":"ok","service":"1"}

{"status":"ok","service":"2"}


us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressFamily=ipv4&connType=standard&instanceId=i-093603d9ec8420405&osUser=ubuntu&region=us-east-1&sshPort...
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/ # curl http://service2:8002/ping
{"service":"2","status":"ok"}
/ #
ubuntu@ip-172-31-84-83:~/Nginx-Reverse-Proxy-Docker$ curl http://service2:8002/ping
curl: (6) Could not resolve host: service2
ubuntu@ip-172-31-84-83:~/Nginx-Reverse-Proxy-Docker$ curl http://54.91.147.79:8080/service1/ping
^C
ubuntu@ip-172-31-84-83:~/Nginx-Reverse-Proxy-Docker$ sudo docker logs nginx
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf
10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf
/docker-entrypoint.sh: Sourcing /docker-entrypoint.d/15-local-resolvers.envsh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
/docker-entrypoint.sh: Configuration complete; ready for start up
ubuntu@ip-172-31-84-83:~/Nginx-Reverse-Proxy-Docker$ curl http://54.91.147.79:8080/service1/ping
{"service":"1","status":"ok"}
ubuntu@ip-172-31-84-83:~/Nginx-Reverse-Proxy-Docker$ curl http://54.91.147.79:8080/service1/hello
{"message":"Hello from Service 1"}
ubuntu@ip-172-31-84-83:~/Nginx-Reverse-Proxy-Docker$ curl http://54.91.147.79:8080/service2/ping
{"service":"2","status":"ok"}
ubuntu@ip-172-31-84-83:~/Nginx-Reverse-Proxy-Docker$ curl http://54.91.147.79:8080/service2/hello
{"message":"Hello from Service 2"}
ubuntu@ip-172-31-84-83:~/Nginx-Reverse-Proxy-Docker$
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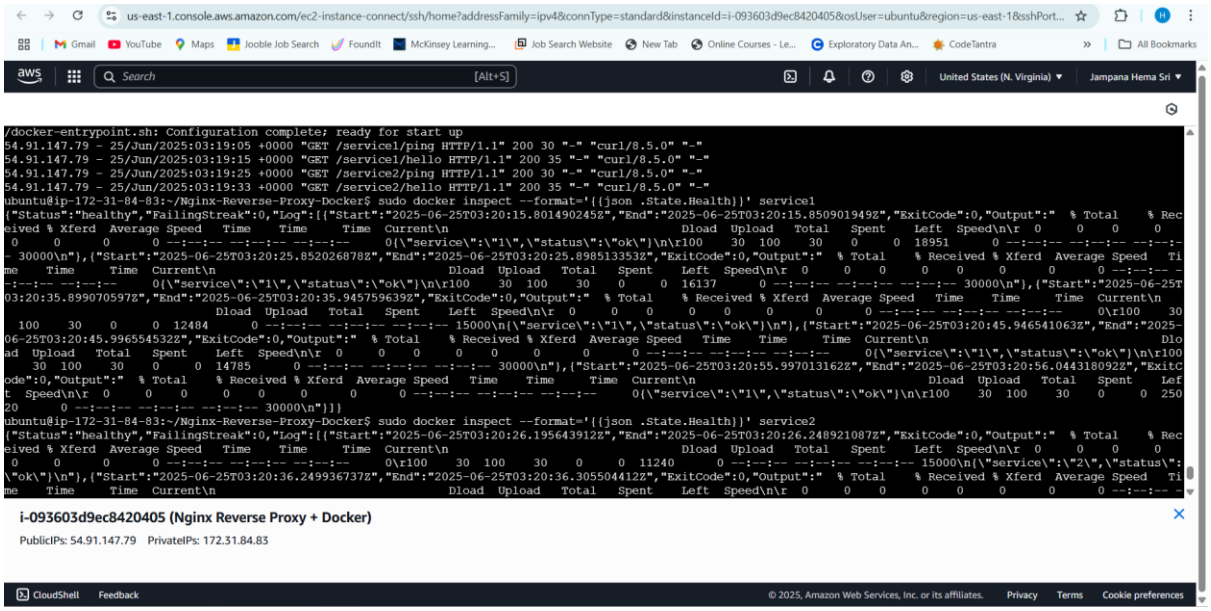
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressFamily=ipv4&connType=standard&instanceId=i-093603d9ec8420405&osUser=ubuntu&region=us-east-1&sshPort...
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/docker-entrypoint.sh: Configuration complete; ready for start up
54.91.147.79 - 25/Jun/2025:03:19:05 +0000 "GET /service1/ping HTTP/1.1" 200 30 "-" "curl/8.5.0" "-"
54.91.147.79 - 25/Jun/2025:03:19:15 +0000 "GET /service1/hello HTTP/1.1" 200 35 "-" "curl/8.5.0" "-"
54.91.147.79 - 25/Jun/2025:03:19:25 +0000 "GET /service2/ping HTTP/1.1" 200 30 "-" "curl/8.5.0" "-"
54.91.147.79 - 25/Jun/2025:03:19:33 +0000 "GET /service2/hello HTTP/1.1" 200 35 "-" "curl/8.5.0" "-"
ubuntu@ip-172-31-84-83:~/Nginx-Reverse-Proxy-Docker$ sudo docker inspect --format='{{json .State.Health}}' service1
ubuntu@ip-172-31-84-83:~/Nginx-Reverse-Proxy-Docker$ sudo docker inspect --format='{{json .State.Health}}' service2
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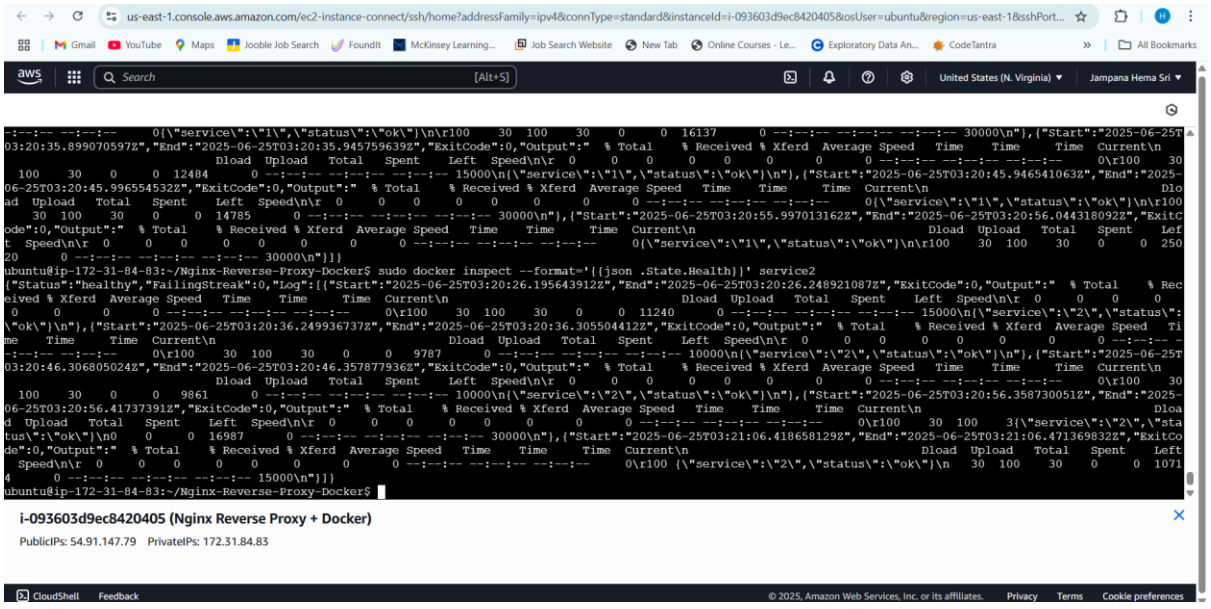
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressFamily=ipv4&connType=standard&instanceId=i-093603d9ec8420405&osUser=ubuntu&region=us-east-1&sshPort...
Search
[Alt+S]
United States (N. Virginia)
Jampana Hema Sri
ubuntu@ip-172-31-84-83:~/Nginx-Reverse-Proxy-Docker$ sudo docker inspect --format='{{json .State.Health}}' service1
ubuntu@ip-172-31-84-83:~/Nginx-Reverse-Proxy-Docker$ sudo docker inspect --format='{{json .State.Health}}' service2
ubuntu@ip-172-31-84-83:~/Nginx-Reverse-Proxy-Docker$
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📌 Conclusion

✅ Successfully deployed two microservices using Docker Compose
✅ Reverse proxied with Nginx container
✅ Deployed and tested everything on AWS EC2
✅ Configured GitHub SSH cloning for secure deployment

Github link : https://github.com/Hemasrijampana/Nginx-Reverse-Proxy-Docker