

Task 2: Deploy Nginx on EC2 Using Docker

1. EC2 Instance Launch

Launched an EC2 instance named Terraform-EC2-Docker using Terraform. Security group web-sg created with rules:

- SSH (22): allowed from my IP only (27.61.61.200/32)
- HTTP (80): allowed from anywhere (0.0.0.0/0)

Key pair my-key used for SSH login.

2. SSH into EC2

Connected to Ubuntu 24.04 LTS instance using: `ssh -i /root/.ssh/my-key ubuntu@65.0.96.75`

3. Run Nginx Using Docker

Commands executed:

```
sudo docker run -d -p 80:80 nginx
```

```
sudo docker ps
```

Verified that the Nginx container is running and listening on port 80.

4. Verify Nginx Server

```
curl http://localhost
```

Browser:

```
http://65.0.96.75
```

Nginx welcome page displayed confirming the web server is running.

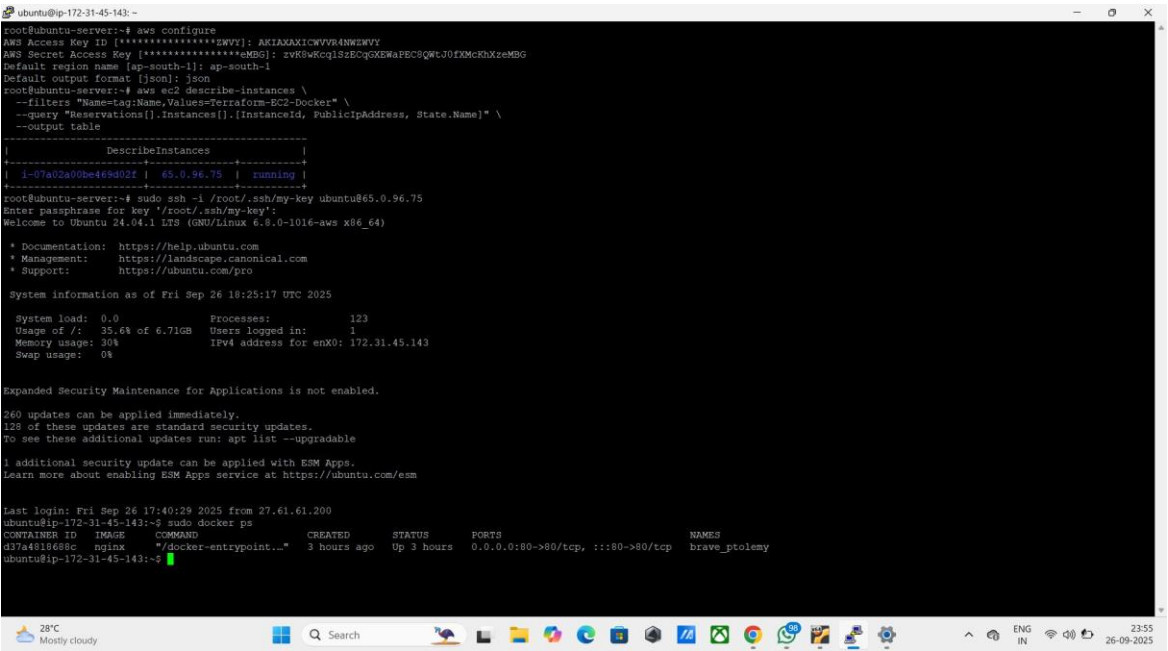
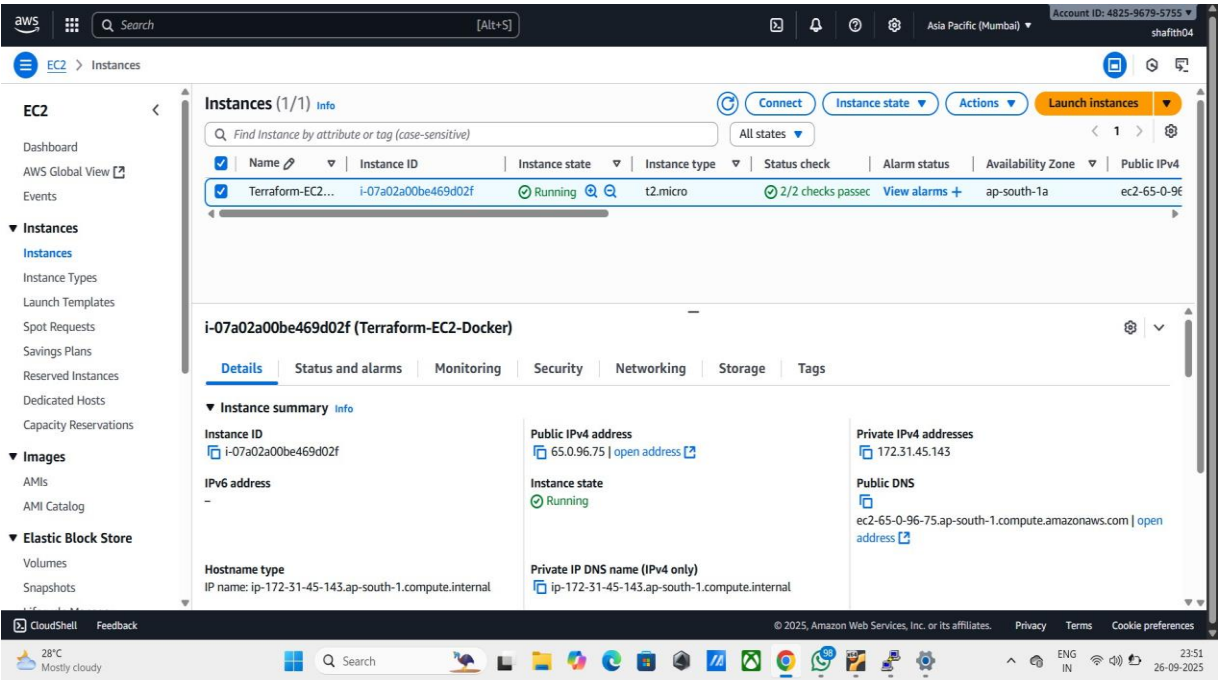
5. Network & Security Configuration

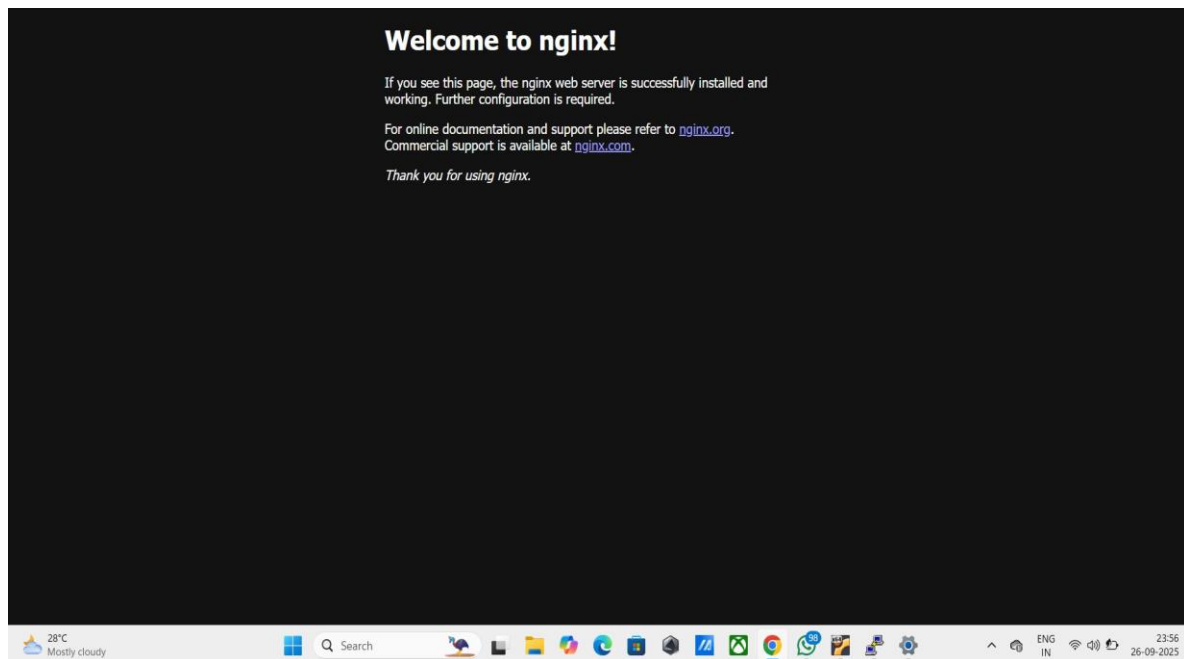
Inbound: SSH allowed from personal IP, HTTP allowed from all IPs.
Outbound: all traffic allowed by default.
Subnet routing and internet gateway configured for public access.

6. Summary

EC2 instance successfully launched.
Docker installed and Nginx container running.
HTTP server verified via localhost and public IP.
Security and firewall configured properly for SSH and HTTP access.

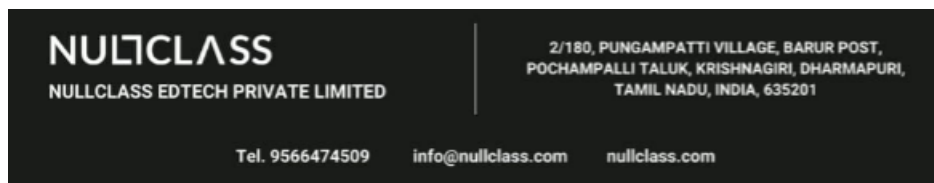
Screenshots





7. Offer Letter:-

As part of the internship documentation, the offer letter confirming the internship position was included.



September 21, 2025

Dear Mohamed Shafith,

We are pleased to offer you the opportunity to join NullClass as an **Cloud Technology Intern 21-09-2025 to 21-10-2025 (1 Months)**

This offer is conditional upon Annexure A: Terms and Conditions attached below . Upon fulfilling the internship criteria, you will embark on a journey of professional growth and real-world experience with us

Congratulations!

**Elavarasi,
COO**

