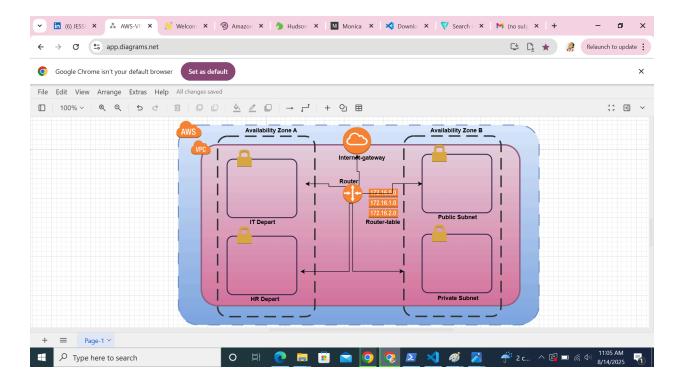
DESIGNED AND DEPLOYED A SECURE VIRTUAL NETWORK ARCHITURE ON AWS

PROJECT DESCRIPTION:

In this project, I successfully designed and deployed a Virtual Network Architecture on AWS (VPC), configured security with ACLs & Security Groups, and launched a live website (Medicare) inside the network.

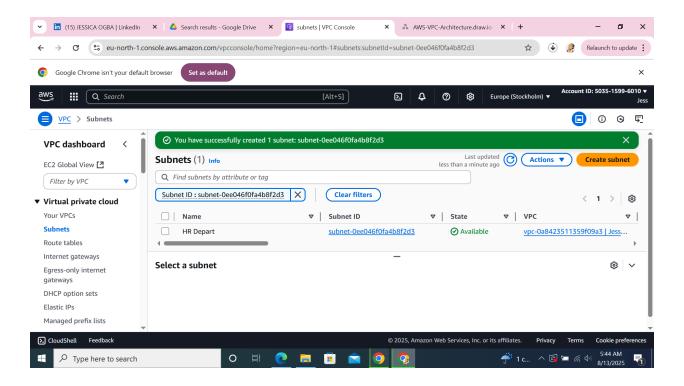
KEY STEPS:

I Started by designing a 2-tier VPC architecture on <u>Draw.io</u> with the following AWS components: VPC, Public & Private Subnets, Route Tables, Internet Gateway, Security Groups, Network ACLs



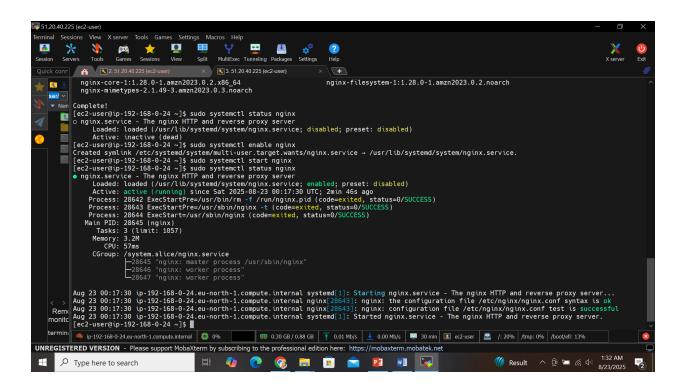
AWS Infrastructure Setup:

Next, I created the VPC, subnets, and configured routing. I launched EC2 instances (Amazon Linux) with auto-assigned public IPs, applying the required security settings for controlled access



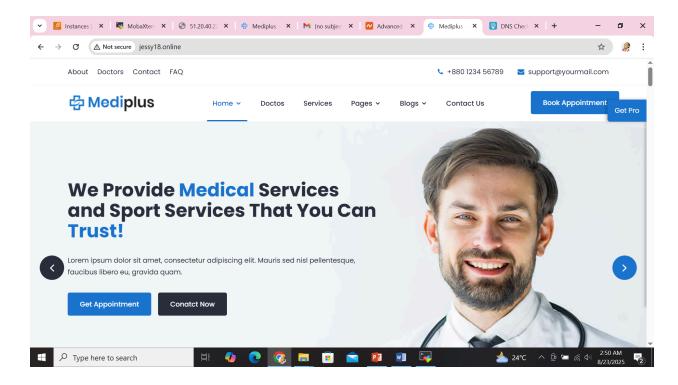
EC2 Web Server Configuration:

Using MobaXterm, I connected to the EC2 instance, installed Nginx and Git, and set up the server environment.



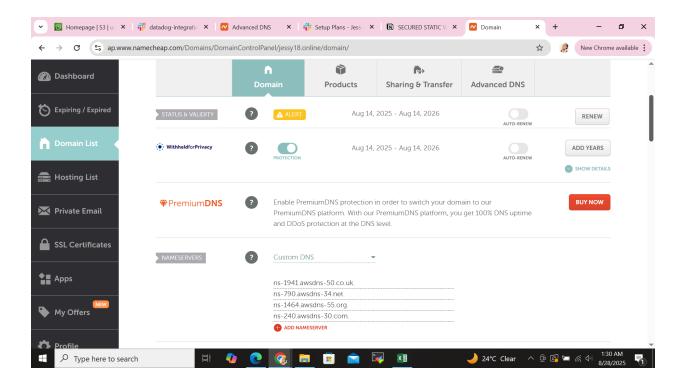
Website Deployment:

I cloned the MediCare healthcare website from GitHub, moved the files to the Nginx web directory, and successfully hosted the site.



Custom Domain Integration:

Finally, I purchased a custom domain, configured DNS records, and pointed it to the server, making the website accessible publicly.



Key Takeaways from this Project:

- Designing an architecture before implementation ensures scalability and security.
- Hands-on practice with VPC, EC2, and DNS deepened my confidence in deploying real-world solutions.
- Every project strengthens my foundation and makes me more eager to contribute in professional settings.