

# Hexarootsystems – AWS DMZ Architecture Project

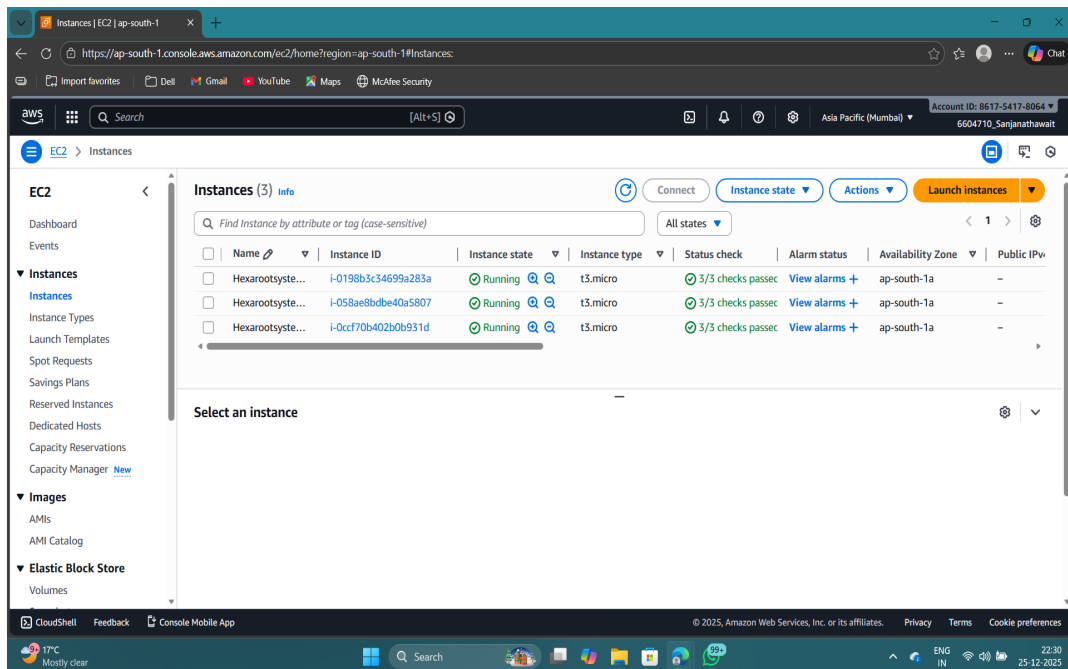
## Abstract

This project demonstrates the design and implementation of a secure AWS-based DMZ architecture using EC2, VPC, subnets, route tables, and security groups. The aim is to expose a public-facing web server while isolating internal resources.

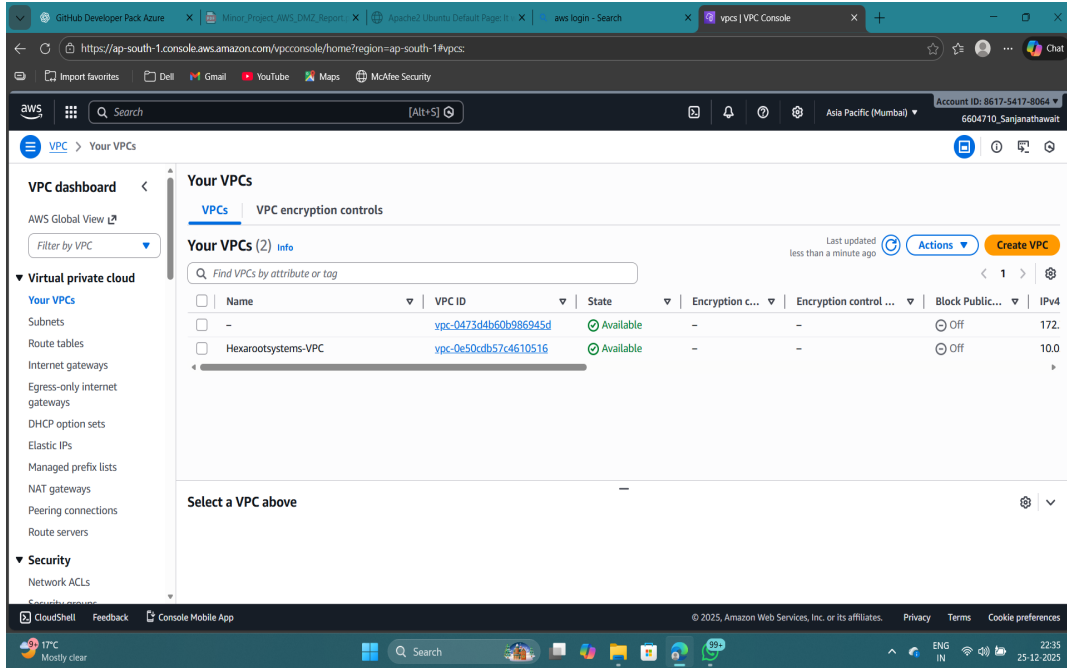
## Architecture Diagram Explanation

The architecture consists of a VPC divided into a DMZ subnet and an Internal subnet. The DMZ hosts a public EC2 web server connected via an Internet Gateway, while internal servers remain isolated for security.

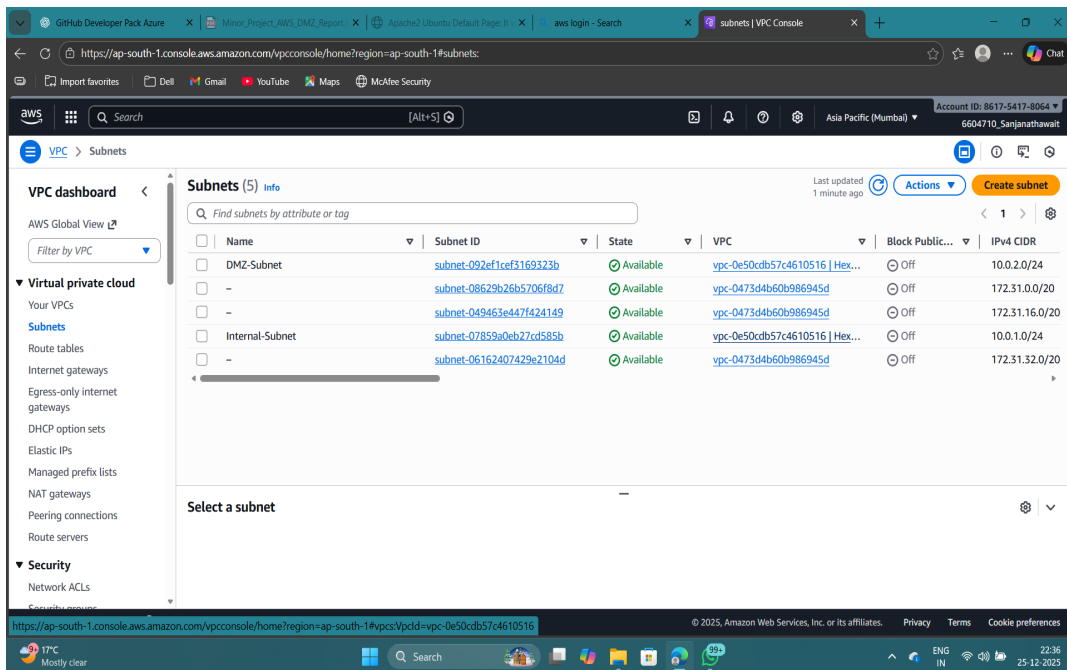
## EC2 Instances Running in AWS Console



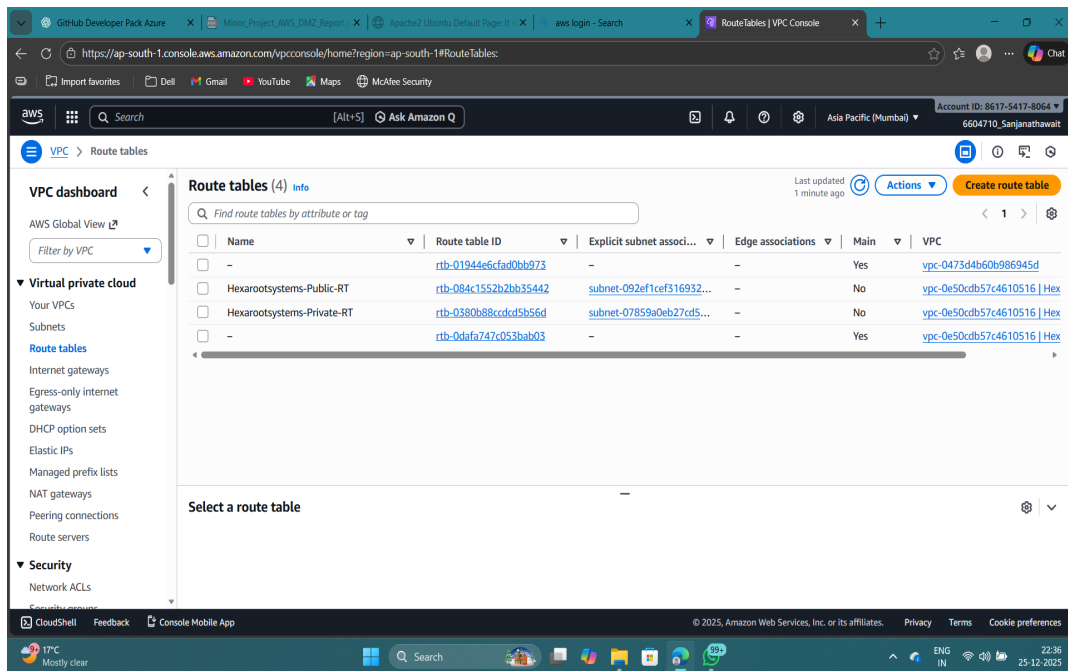
## VPC Configuration – Hexarootsystems-VPC



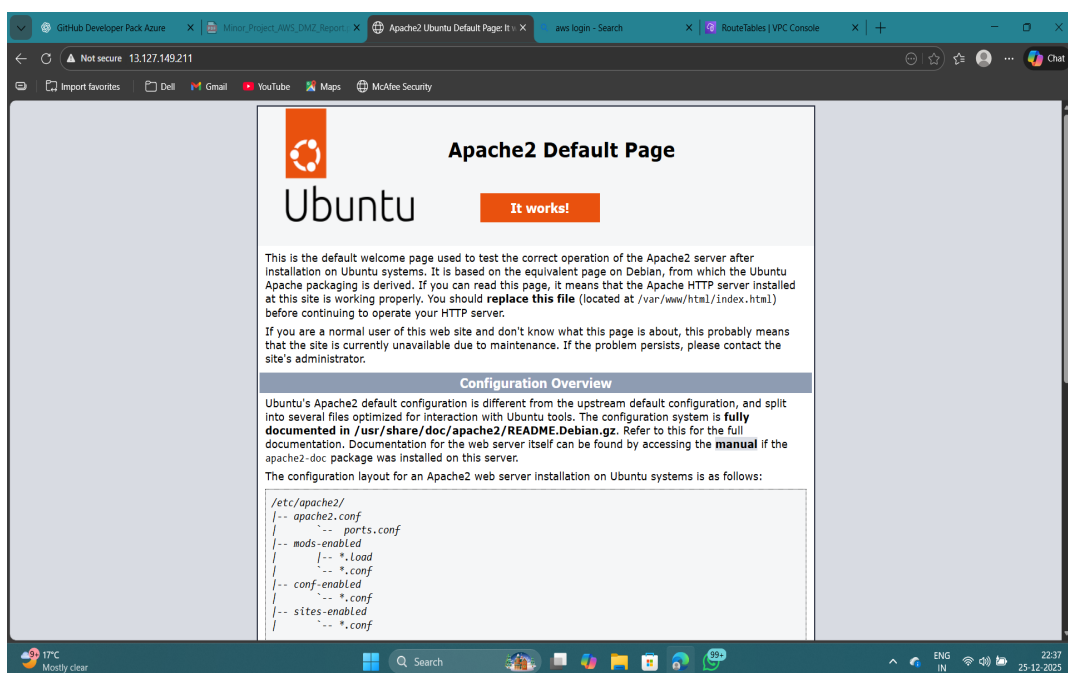
## Subnet Configuration (DMZ and Internal Subnets)



## Route Table Configuration



## Apache Web Server Output (Public Access)



## **Conclusion**

The AWS DMZ architecture successfully isolates public and private resources, demonstrating secure enterprise cloud deployment. This project enhances understanding of AWS networking and security best practices.