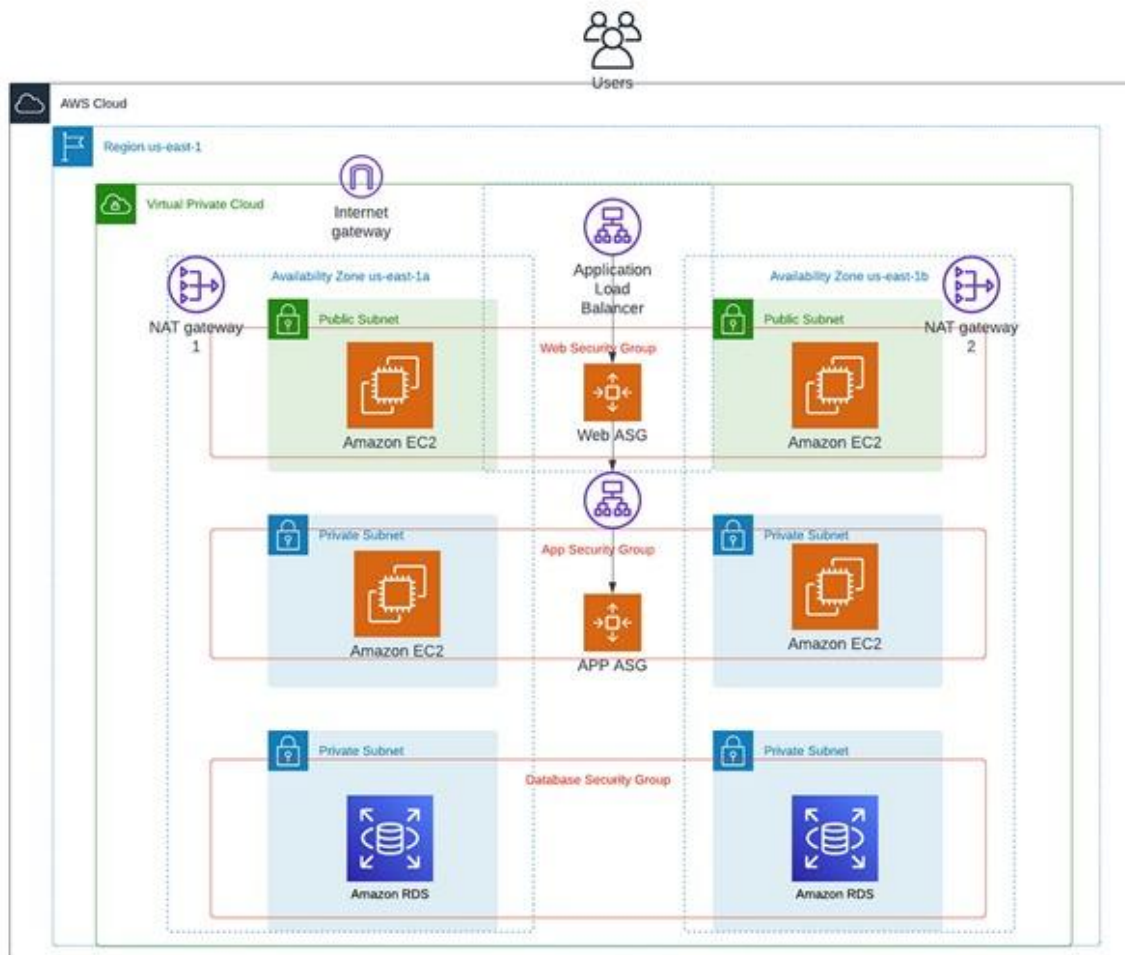


## VCUDE

### PROJECT-1 : 3-TIRE ARCHITECTURE

A **3-tier architecture** is a structured approach to software design that separates an application into three logical tiers:

1. **Presentation Tier (Web Tier)** – The user-facing layer that handles UI interactions, displays content, and forwards requests to the application tier. It typically consists of web servers (e.g., EC2 instances in an Auto Scaling Group) behind an Application Load Balancer for distributing traffic efficiently.
2. **Application Tier (Logic Tier)** – The intermediary layer that processes user requests, applies business logic, and communicates with the database. It consists of application servers that execute core functionalities and enforce business rules.
3. **Data Tier (Database Tier)** – The storage layer responsible for data management and retrieval. This includes relational database instances like Amazon RDS, ensuring secure data persistence with controlled access.



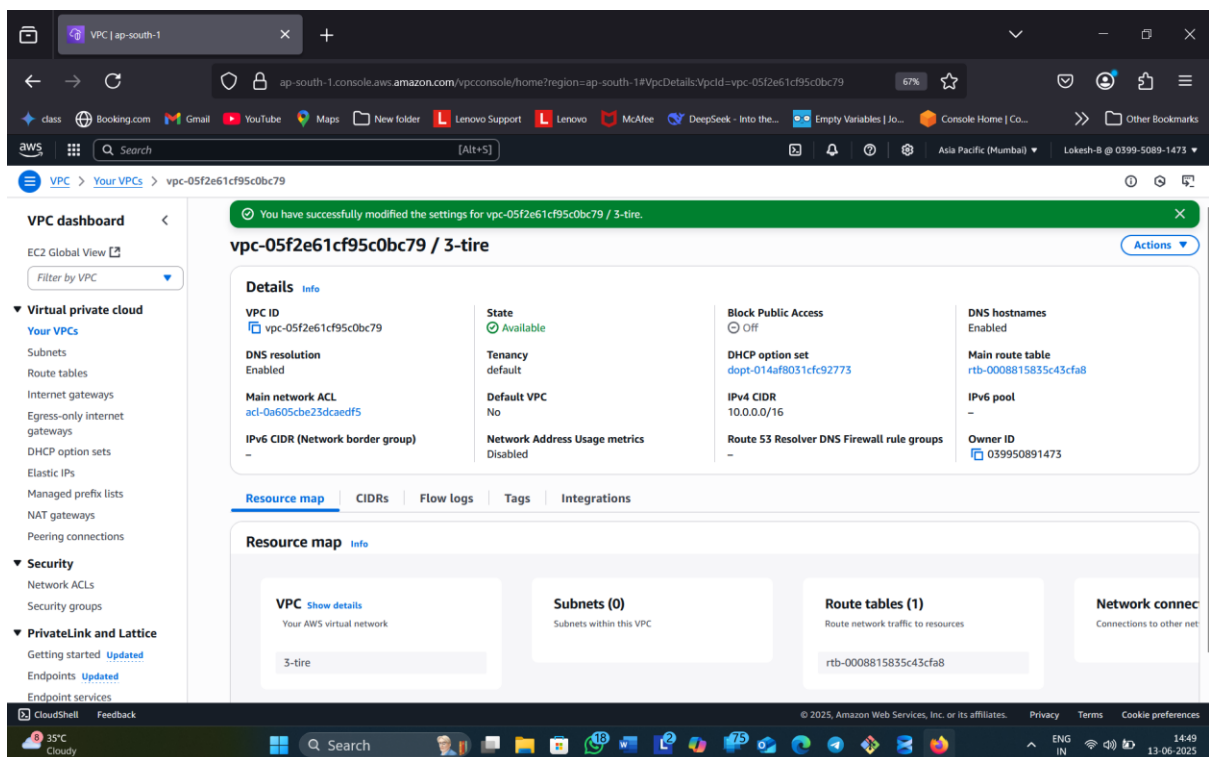
Select one Region for 3-tire project region like Mumbai (ap-south-1).

Go to AWS Search bar type vpc you can redirect to VPC and then you can start the project.

Step -1:

- i) Create VPC
- ii) Select VPC Only

- iii) Name it as 3-tire
- iv) CIDR as 10.0.0.0/16
- v) Click on create
- vi) Go to action edit vpc
- vii) Enable DNS hostname



Step -2:

- I) Go to subnets
- II) Create subnets click on it
- III) Attach VPC for subnets
- IV) Create two public and four private
- V) Public-1a(10.0.1.0/24) in ap-south-1a, public-1b(10.0.2.0/24)in ap-south-1b