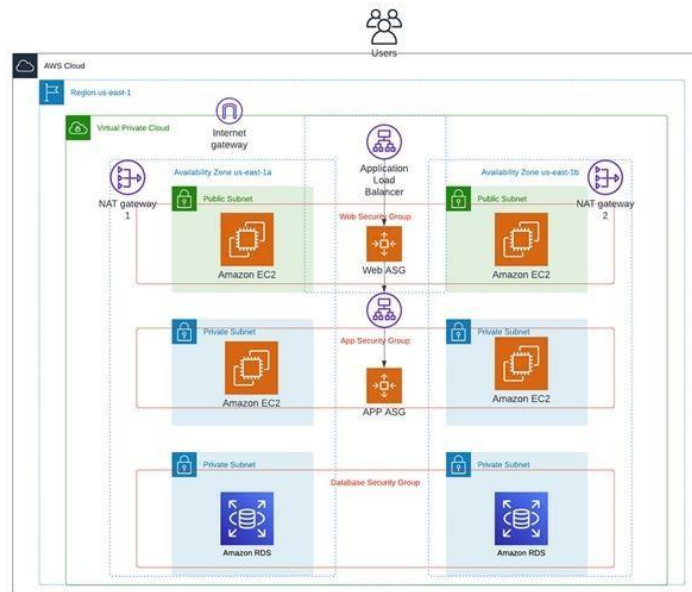**Creating a 3-Tier Architecture for Web Applications in AWS**


A three-tier architecture in AWS (Amazon Web Services) involves structuring applications into three distinct layers: Presentation, Application, and Data. Each tier has specific responsibilities and can be implemented using various AWS services to ensure scalability, security, and manageability.

This network consists of:

- A VPC.
- Two public subnets spread across two availability zones (Web Tier).
- Two private subnets spread across two availability zones (Application Tier).
- Two private subnets spread across two availability zones (Database Tier).
- One public route table that connects the public subnets to an internet gateway.
- One private route table that will connect the Application Tier private subnets and a NAT gateway.
- Load Balancers, Auto-Scaling Groups,Target Groups and Database.
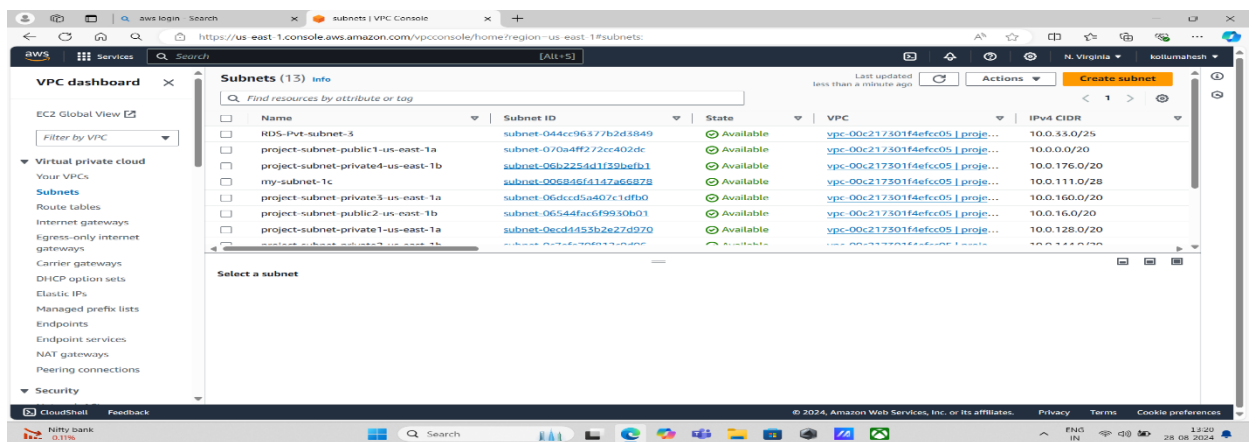- One Public Instance and One Private Instance

Steps for creating 3- Tier Architecture:
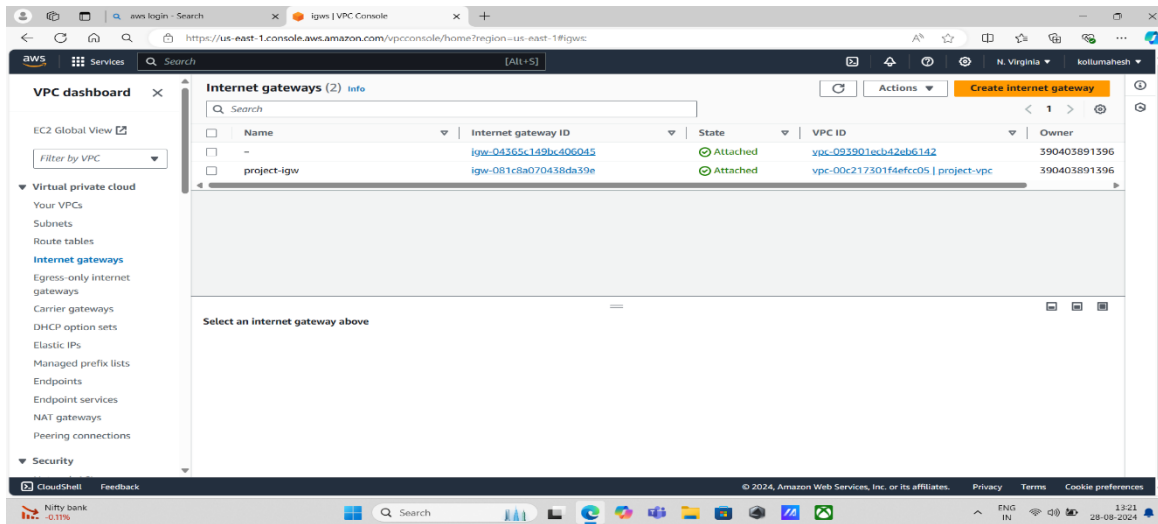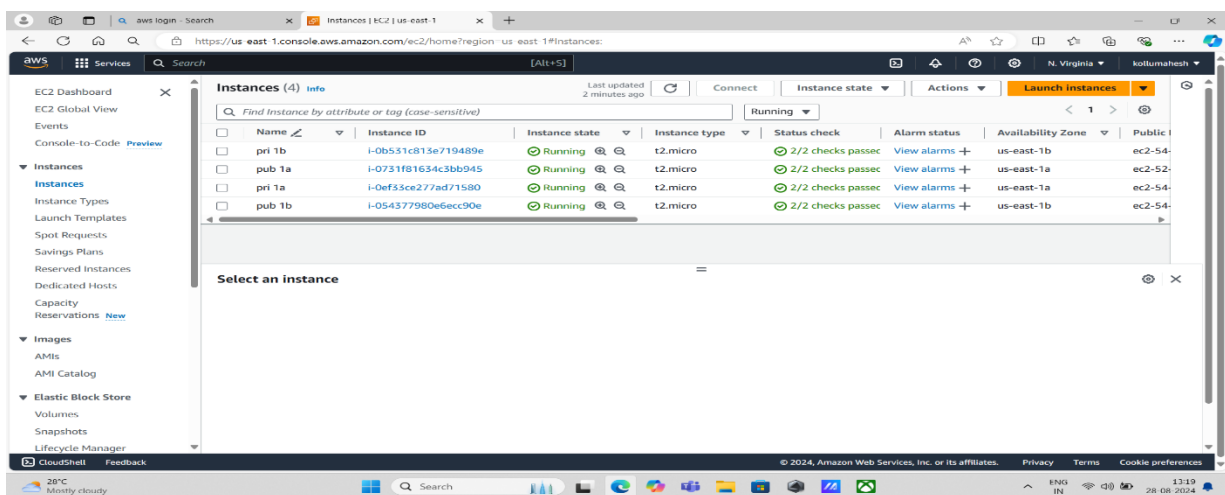
- Create VPC, Subnets, Route tables
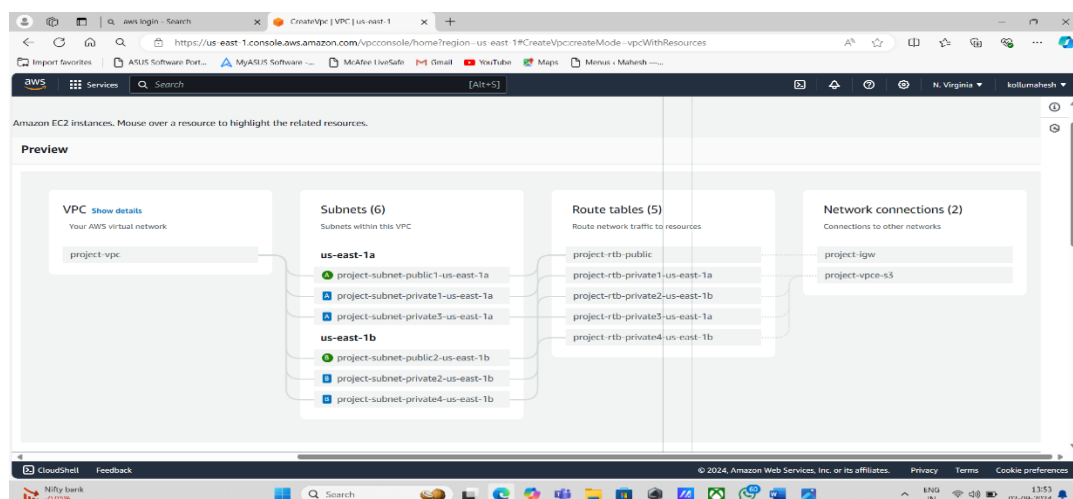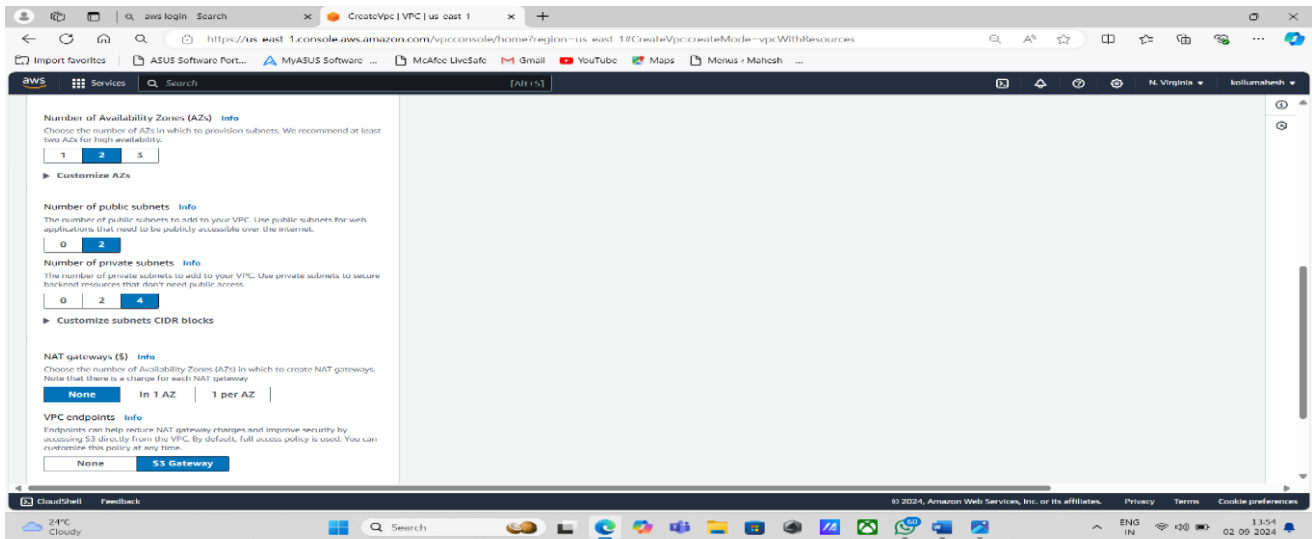
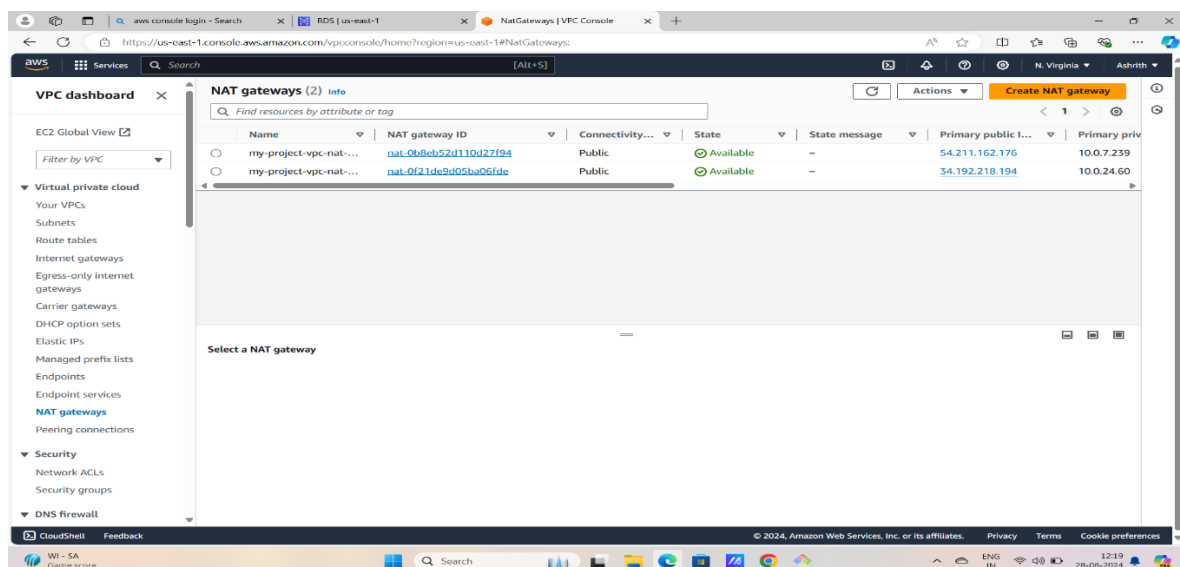- Create 2 public subnets and 4 private subnets.

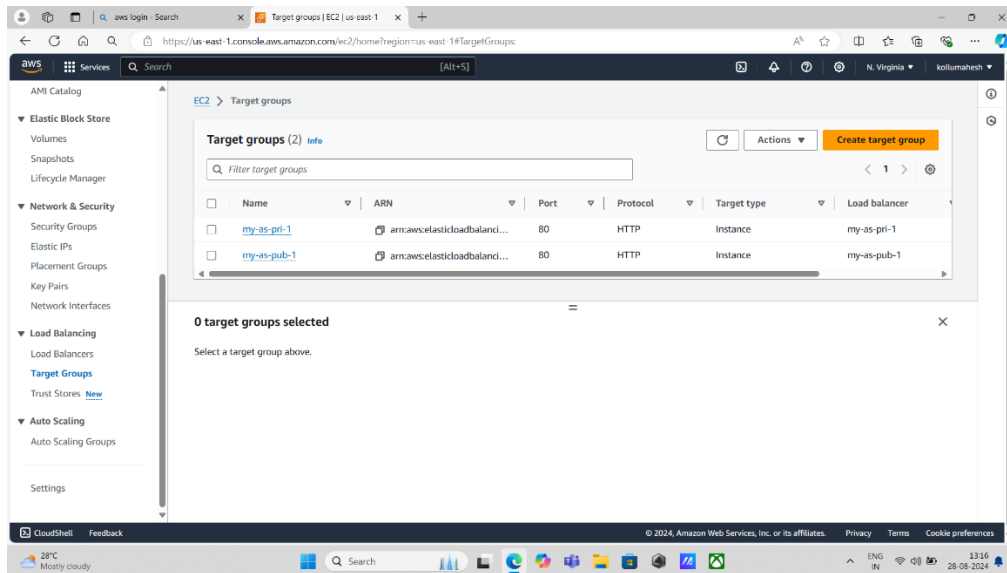- Create one Internet gateway and attach with VPC.

- Create EC2 Instances 2 public and 2 private Instances in **us-east-1a** and **us-east-1b** regions.
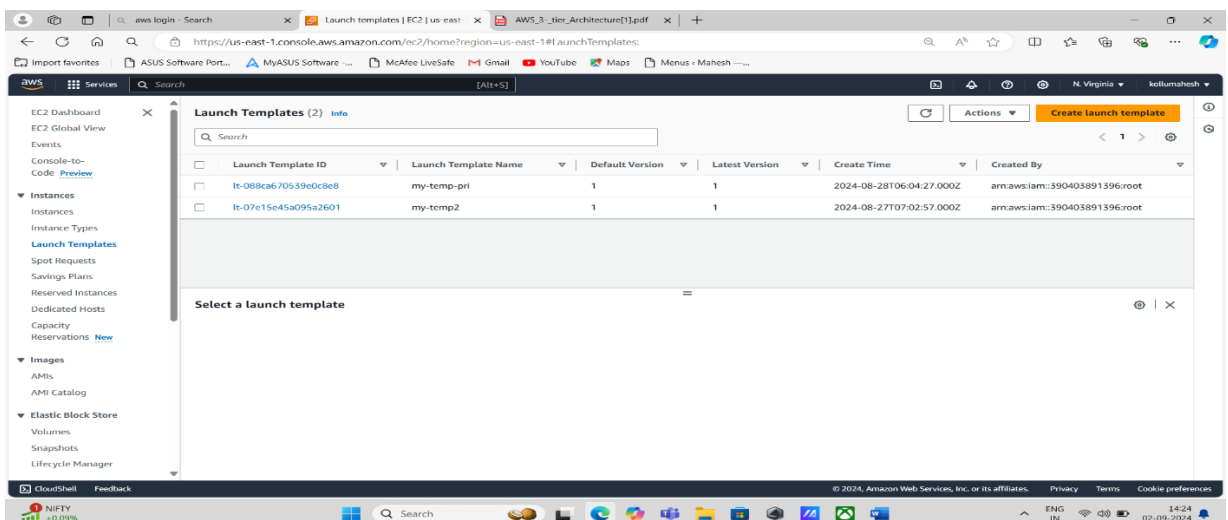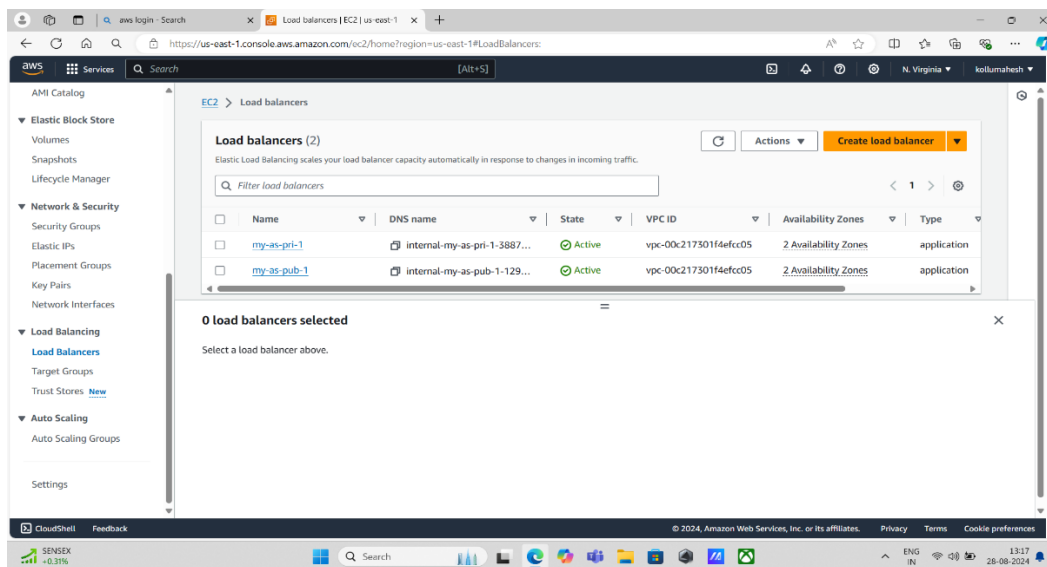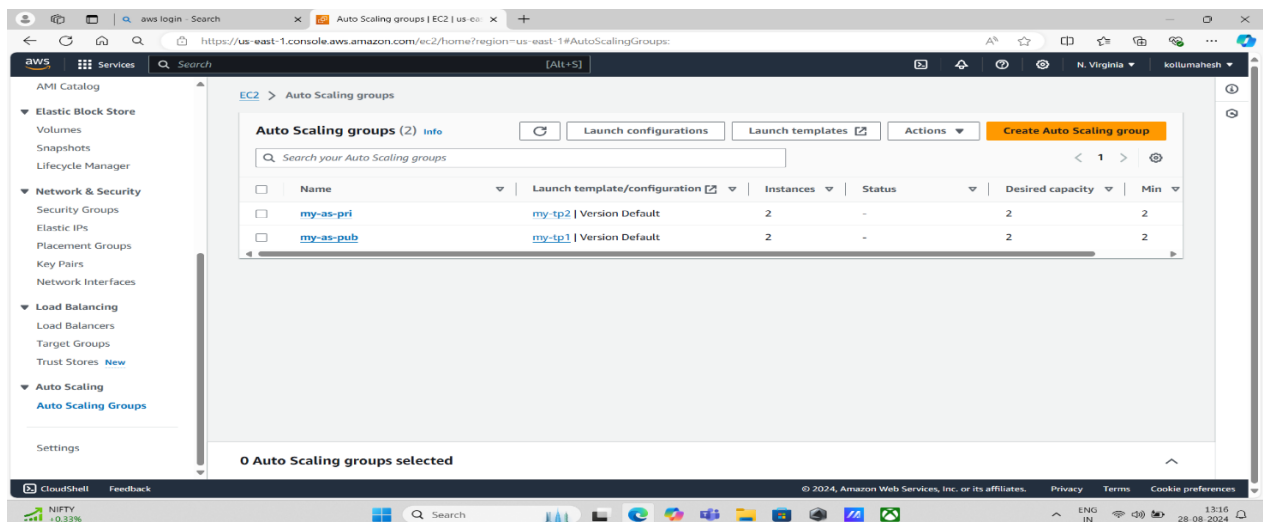

- Create 2 NAT gateways for 2 regions.
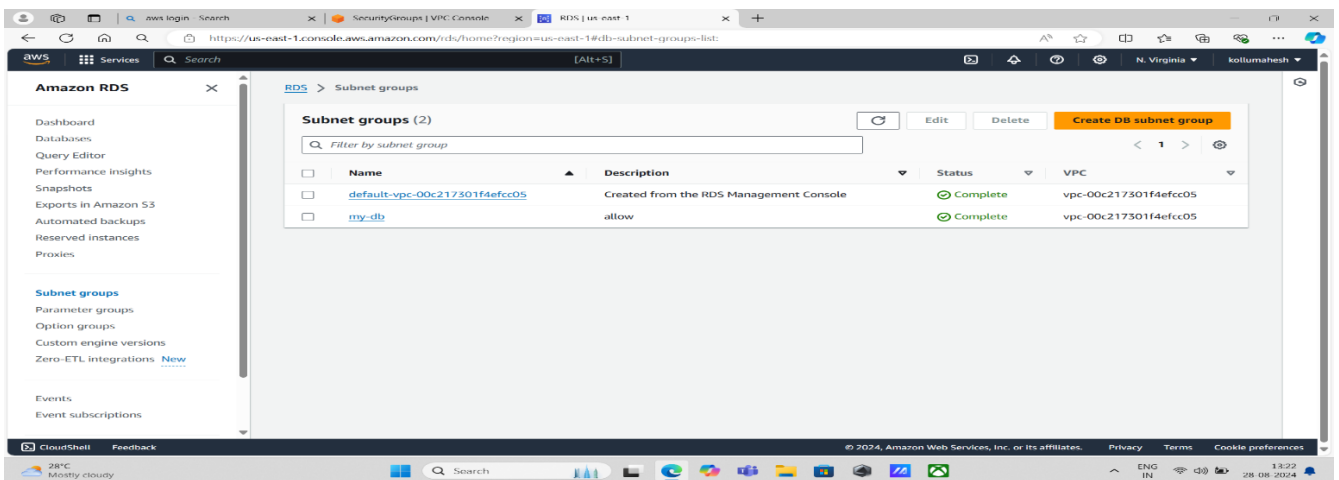

- Create Target groups.

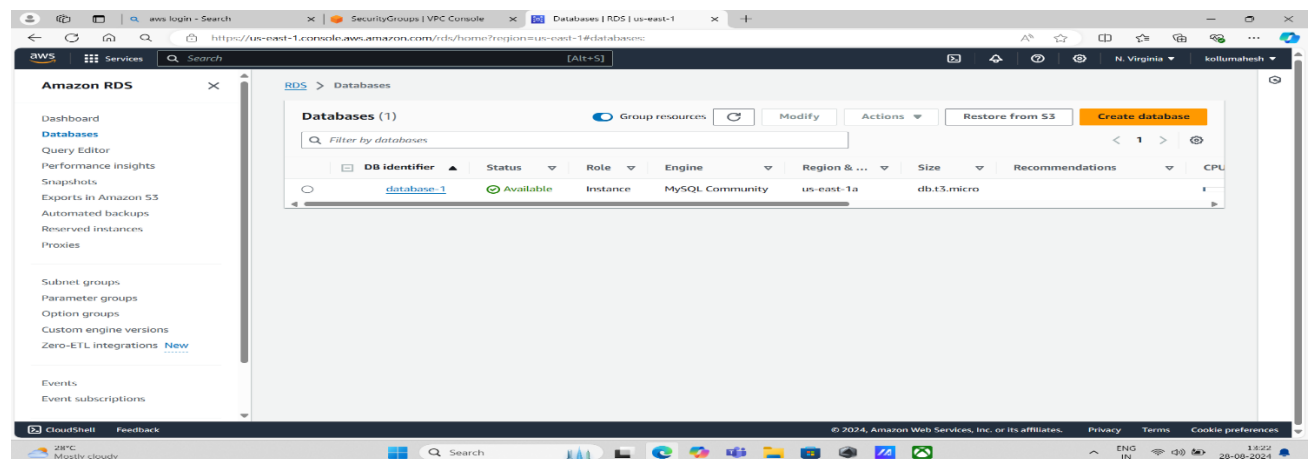- Create Load balancers, Launch 2 templets and create Auto- Scaling.
-

- Add remaining 2 private subnets to the RDS subnet group.

- Create a MySQL database cluster.

- Connecting System to the instance(ubuntu) and attaching database to an Instance.

- Create a database, Use Database and create a table in database and Insert data into it..