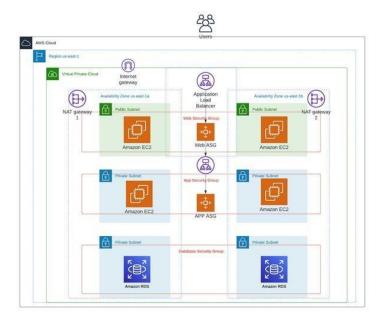
Creating a 3-Tier Architecture for Web Applications in AWS



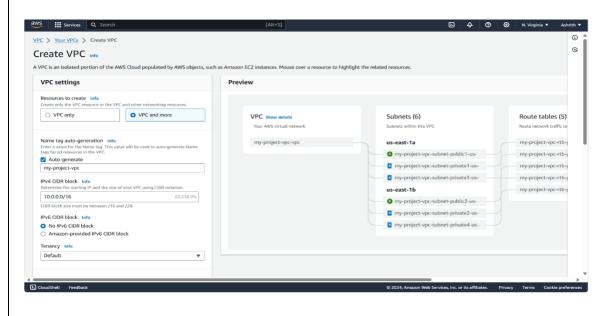
A three-tier architecture in AWS (Amazon Web Services) involves structuring applications into three distinct layers: Presentation, Application, and Data. Each tier has specific responsibilities and can be implemented using various AWS services to ensure scalability, security, and manageability.

This network consists of:

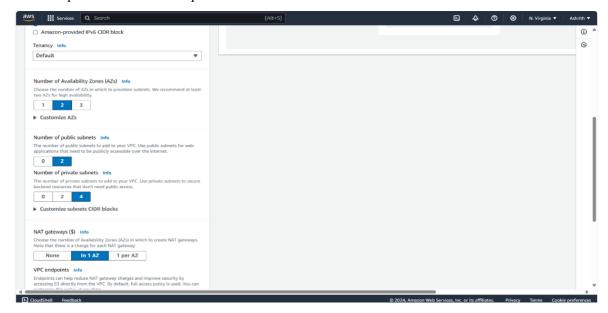
- A VPC.
- Two (2) public subnets spread across two availability zones (Web Tier).
- Two (2) private subnets spread across two availability zones (Application Tier).
- Two (2) private subnets spread across two availability zones (Database Tier).
- One (1) public route table that connects the public subnets to an internet gateway.
- One (1) private route table that will connect the Application Tier private subnets and a NAT gateway.
- Load Balancers, Auto-Scaling Groups and Database.

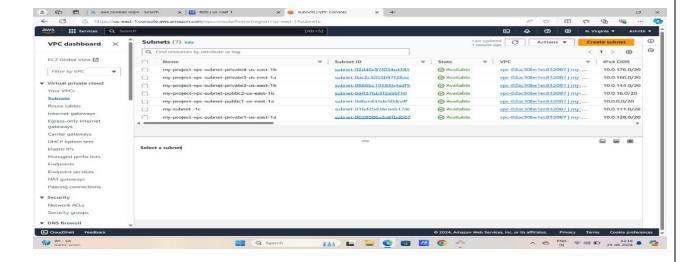
Steps for creating 3- Tier Architecture:

• Create VPC, Subnets, Route tables.

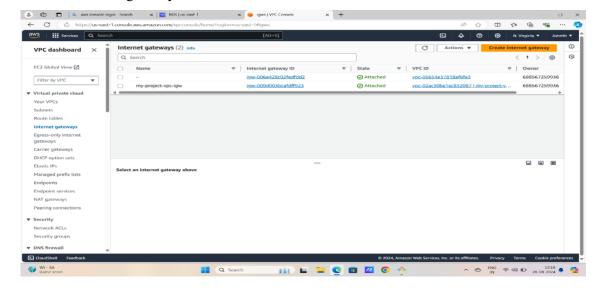


• Create 2 public subnets and 4 private subnets.

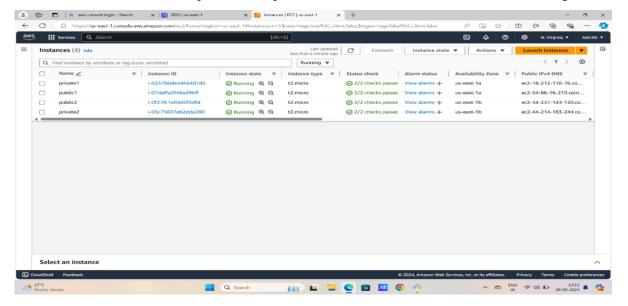




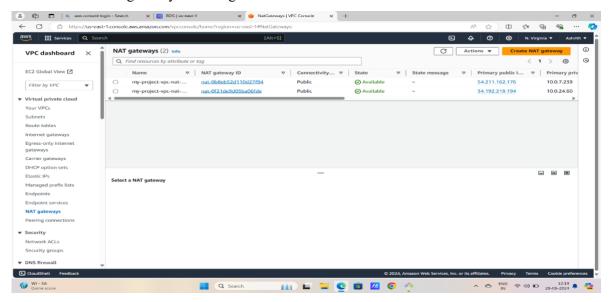
• Create one Internet gateway and attach with VPC.



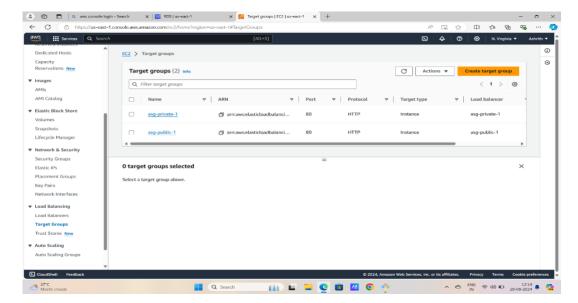
• Create EC2 Instances 2 public and 2 private Instances in us-east-1a and us-east-1b regions.



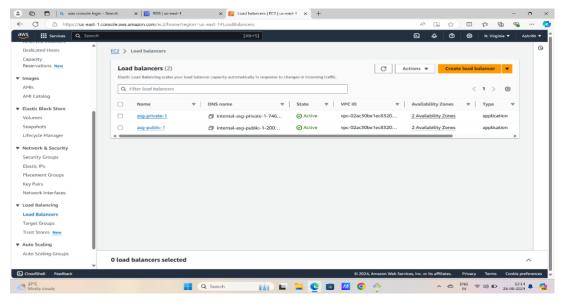
• Create 2 NAT gateways for 2 regions.

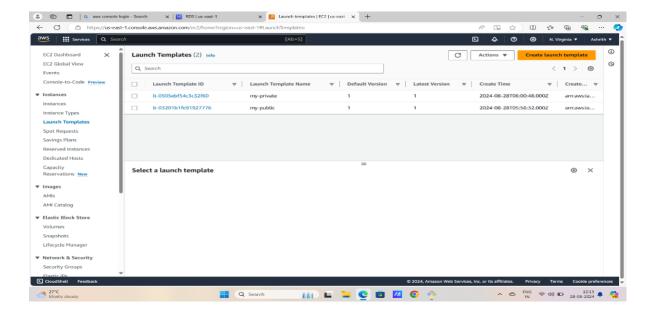


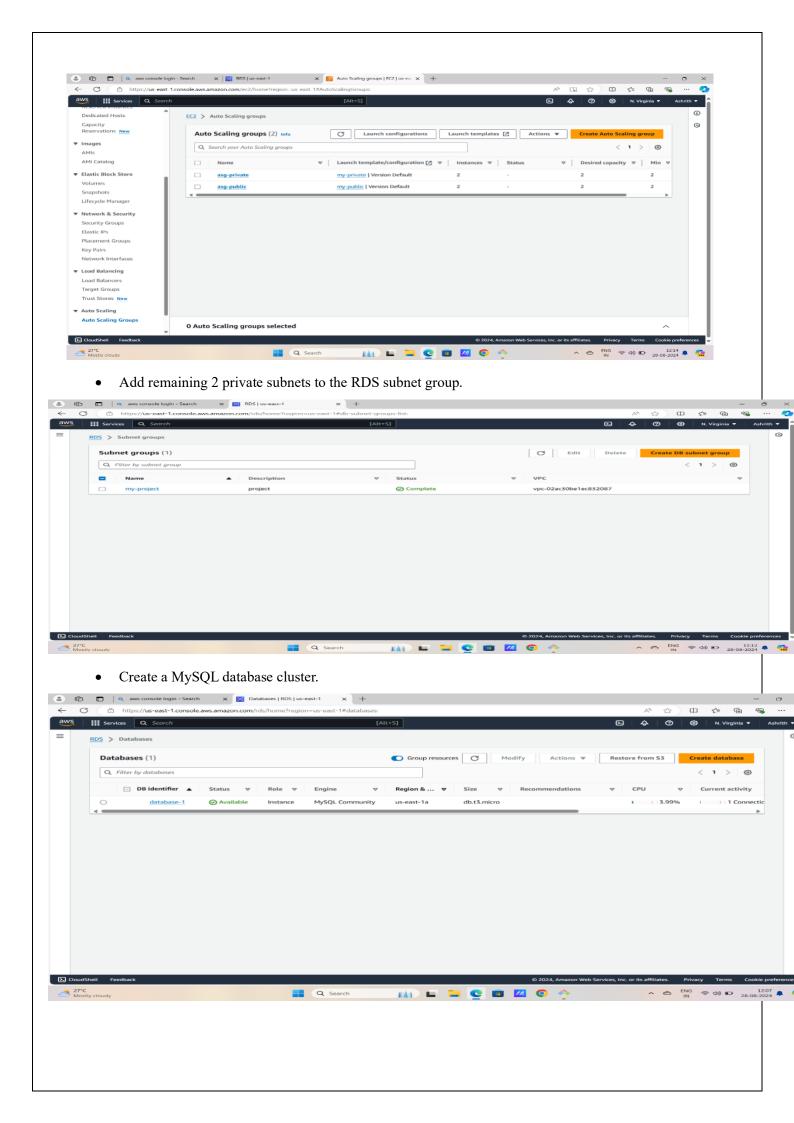
• Create Target groups.



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







• 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..