Complete the below task: 1.

Explain the below AWS Architecture

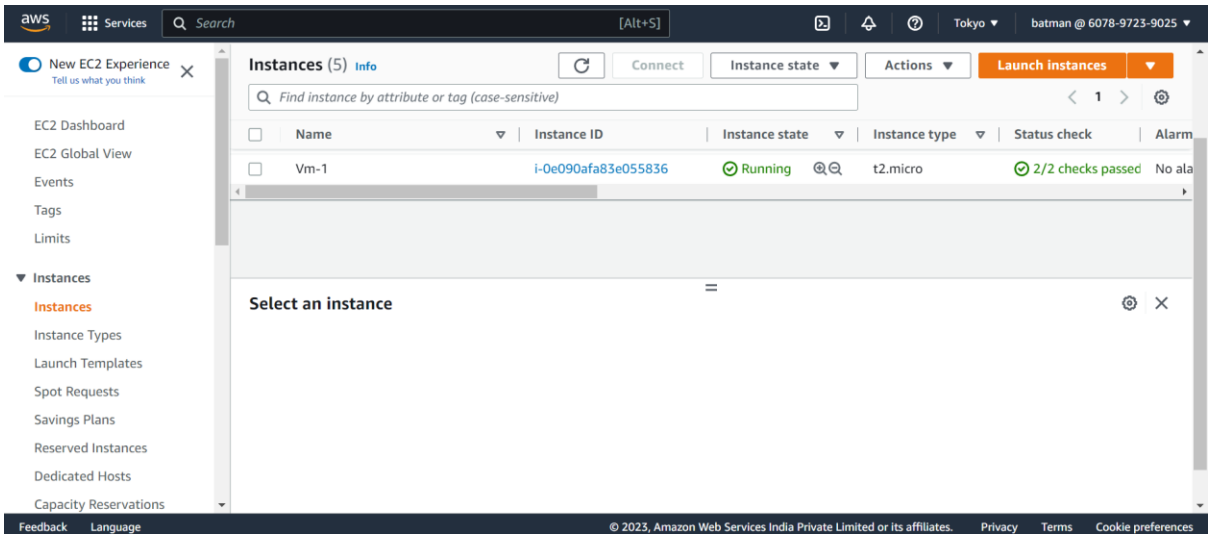
Sol:

- Above diagram using three services of the AWS which are **Elastic Load Balancer, Amazon Elastic Compute Cloud and Amazon Relational Database Service**
- The Elastic Load Balancer is use to distribute the incoming traffic from the end user to the EC2 instance
- Elastic Load Balancer act as a frontend and distribute the incoming traffic to the EC2 Instances.
- Then The EC2 instance is where the Web Application is deployed and then this application is using AWS RDS(**Amazon Relational Database Service)** to store the data

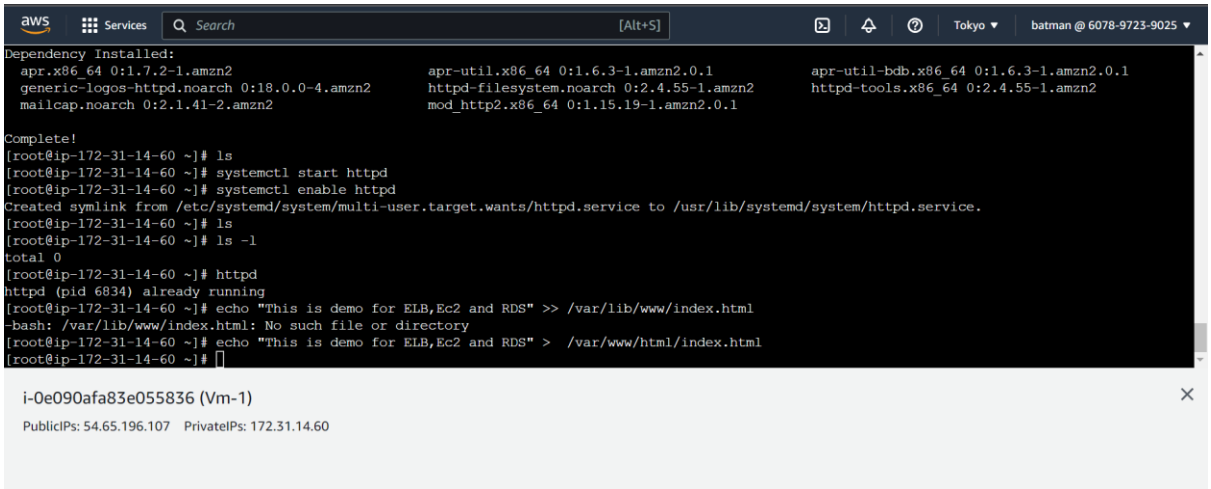
2. Implement the same in the AWS(only do a proper connection between service) NOTE: Submission can be done by sharing the proper screenshots of implementation and doc for explanation

Step to implement:

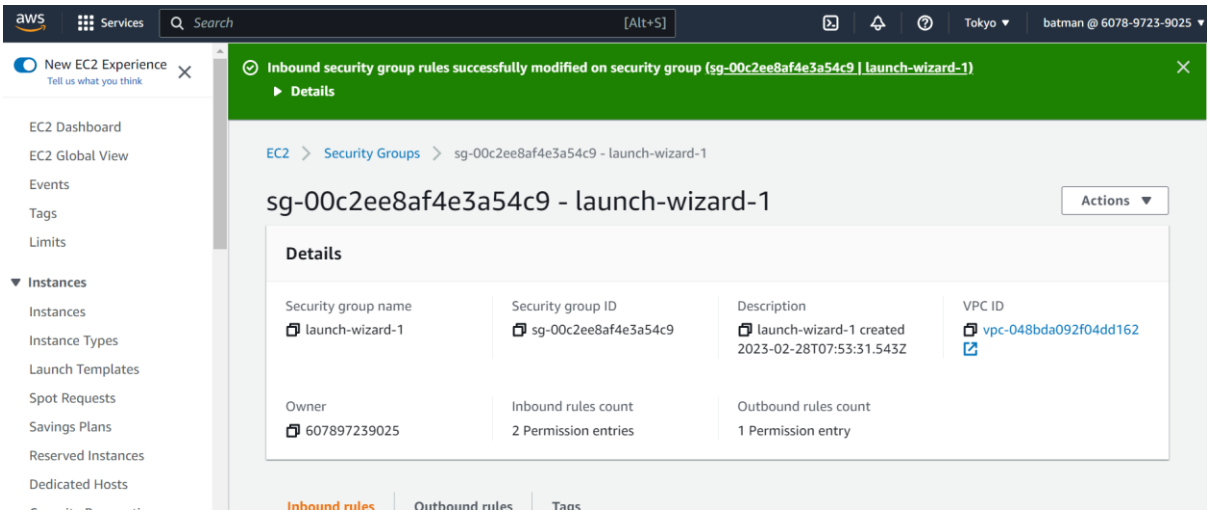
- Creating EC2 instances with **Vm-1** name:



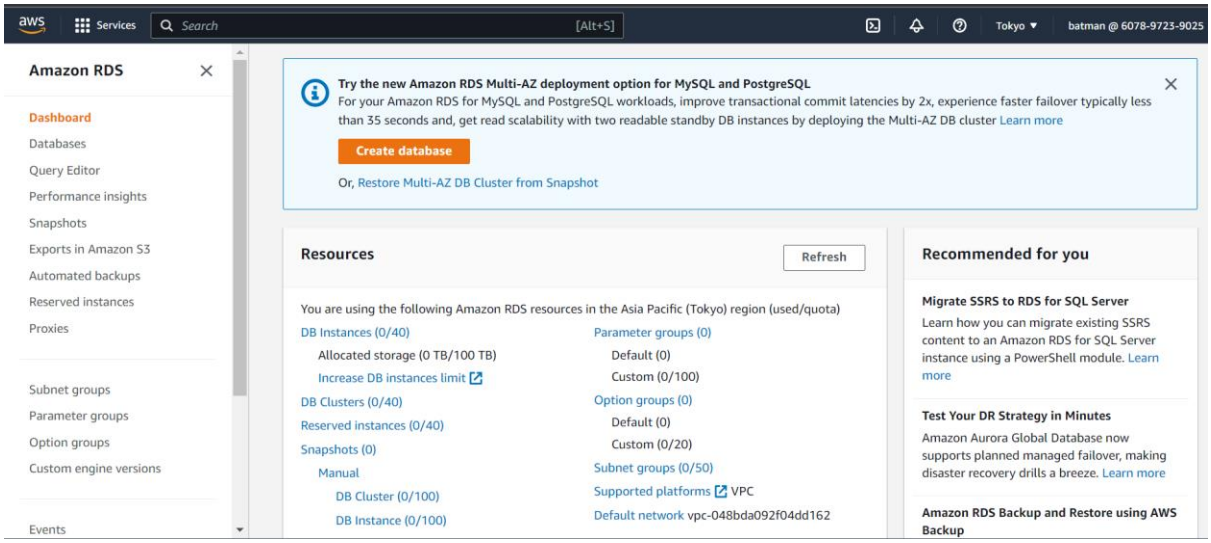
- Updating the EC2, Installing the Apache server and creating index .html file :
    1. Sudo su -u
    2. Yum update -y
    3. Yum install httpd
    4. Systemctl start httpd
    5. Systemctl enable httpd

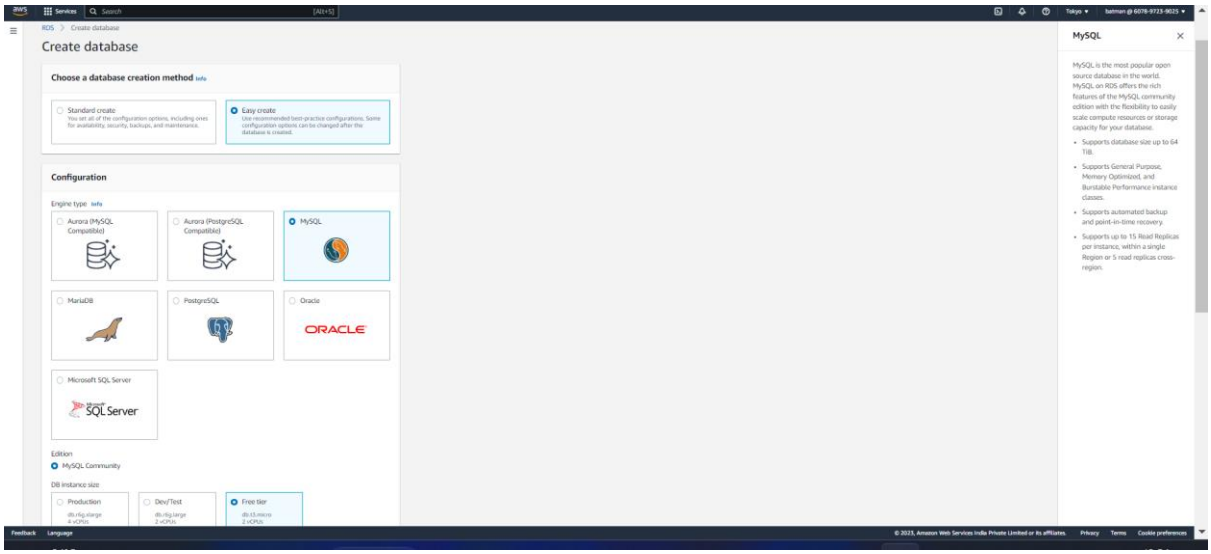


- Adding Inbound rules for port 80 to Security group:

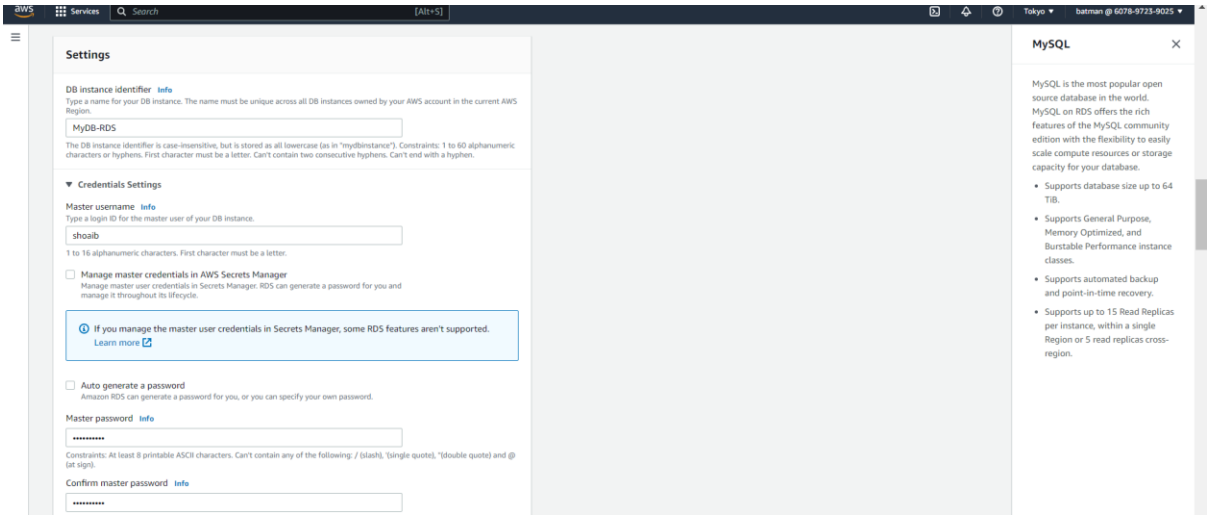


- Creating AWS RDS (Amazon Relational Database Service):

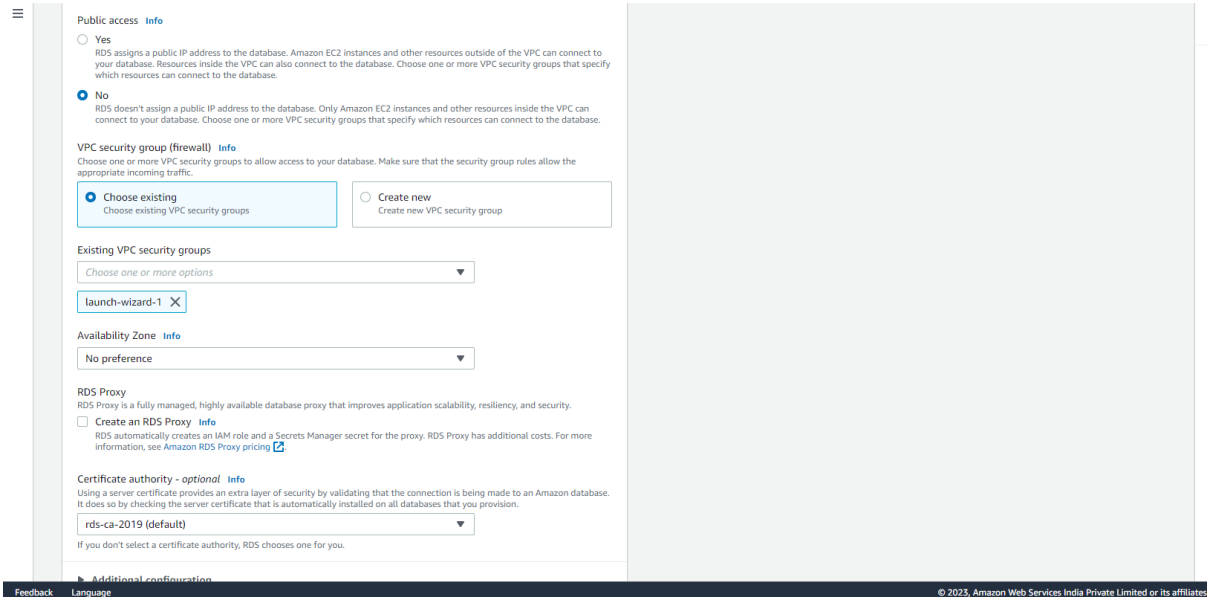




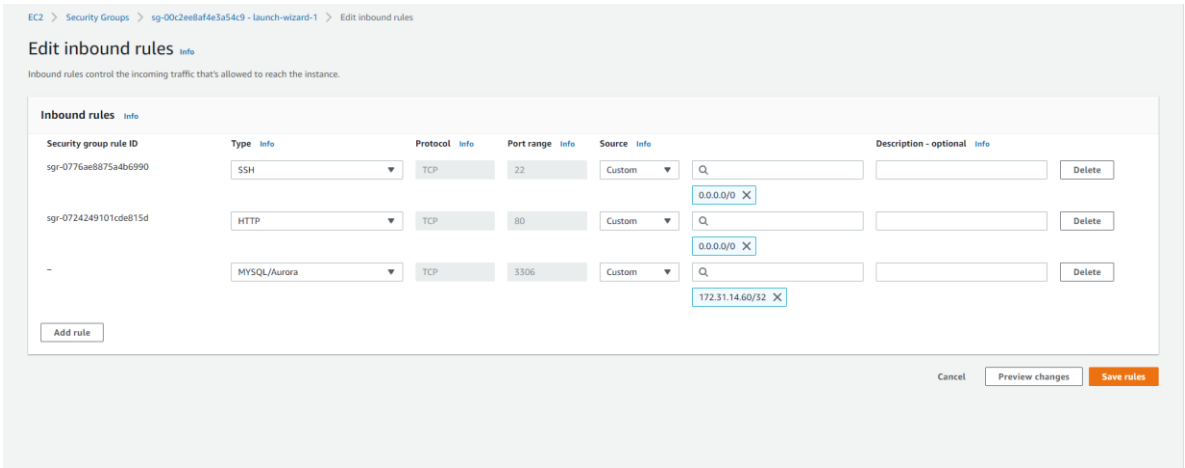
- Adding name and password for MySql:



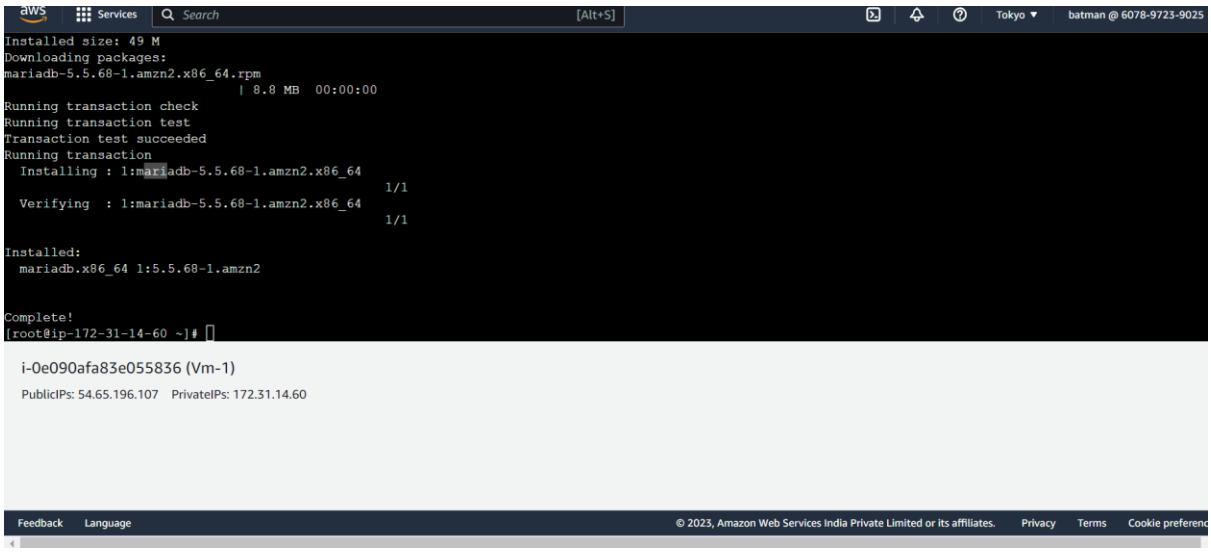
- Adding to Security group



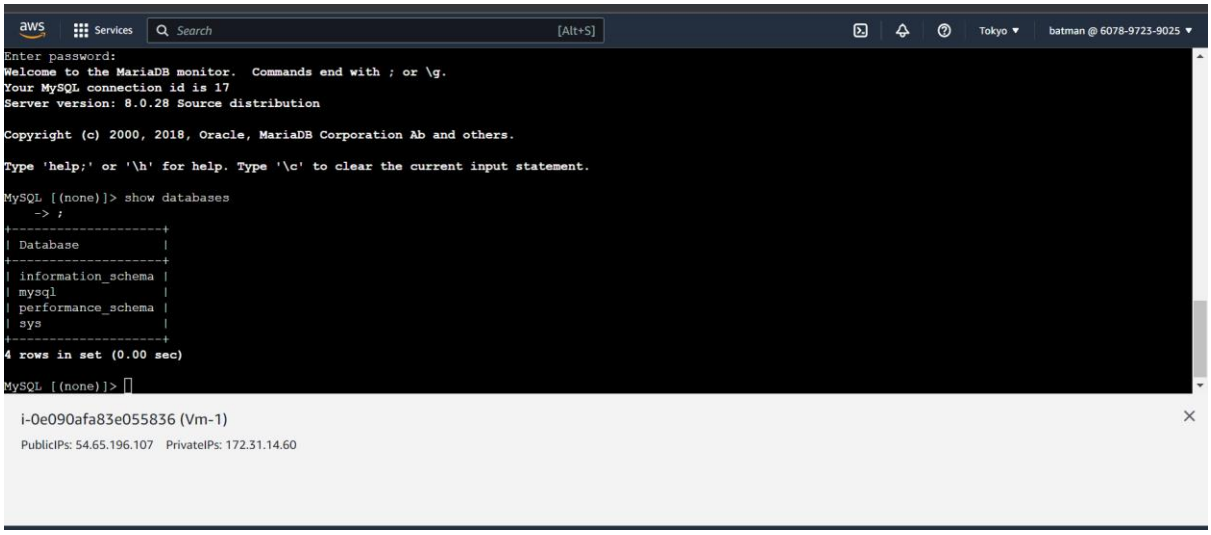
- Creating inbound rule as Mysql will listen on port 3306 so that our Ec2 can connect to MySql and providing EC2 private Ip:



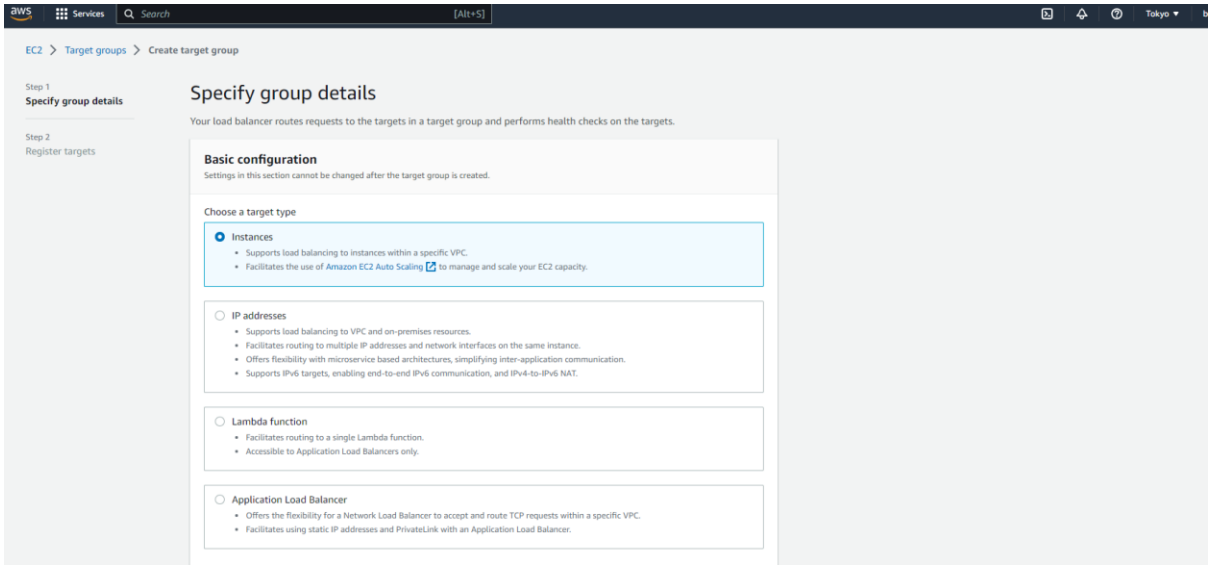
Installing Mysql on EC2 Inastance (VM-1):



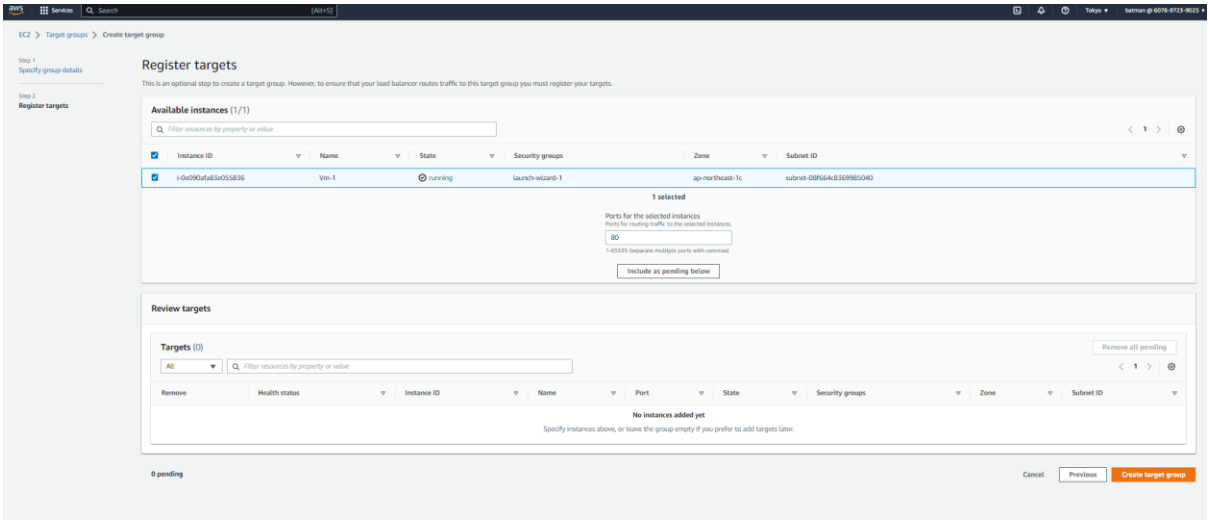
- Connect to Mysql by using the Endpoints of it through EC2 instance:
  - Mysql -h mydb-rds.cose0rc4hp6b.ap-northeast-1.rds.amazonaws.com -u shoaib -p

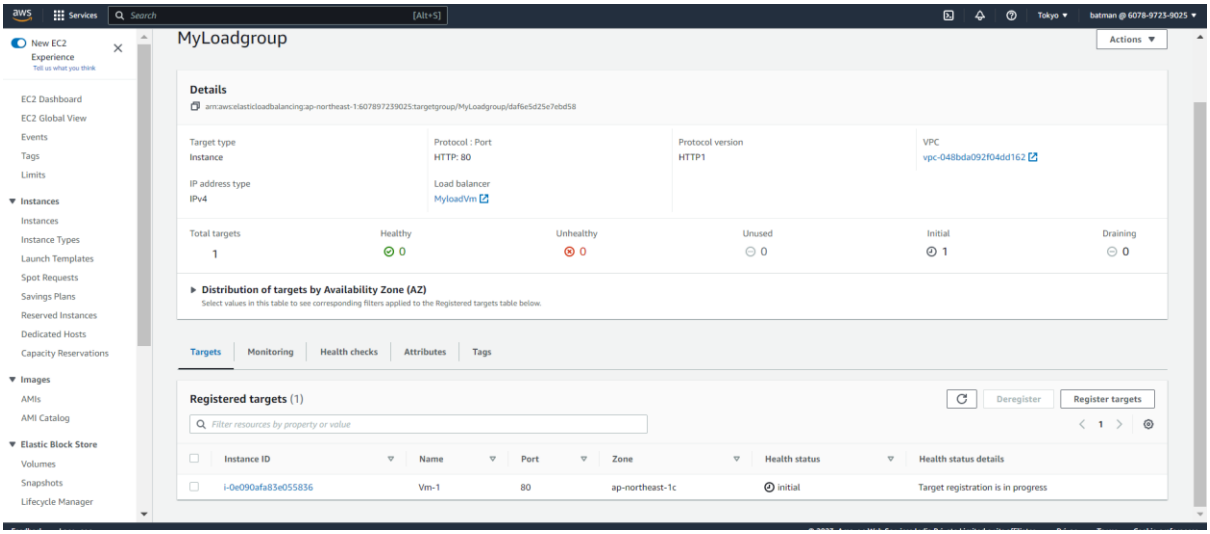


- Creating target group (MyLoadgroup) for load balancer:

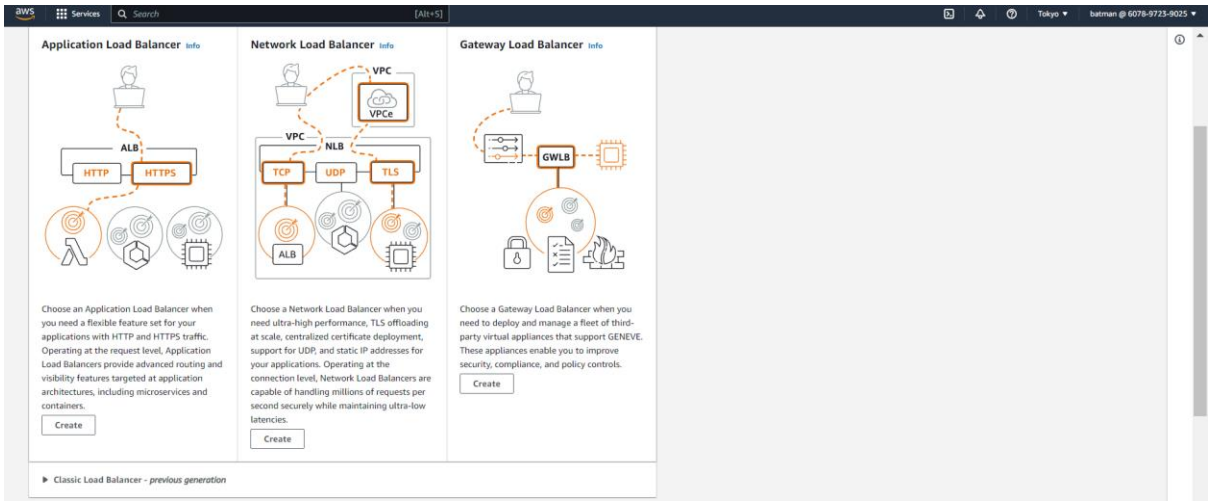


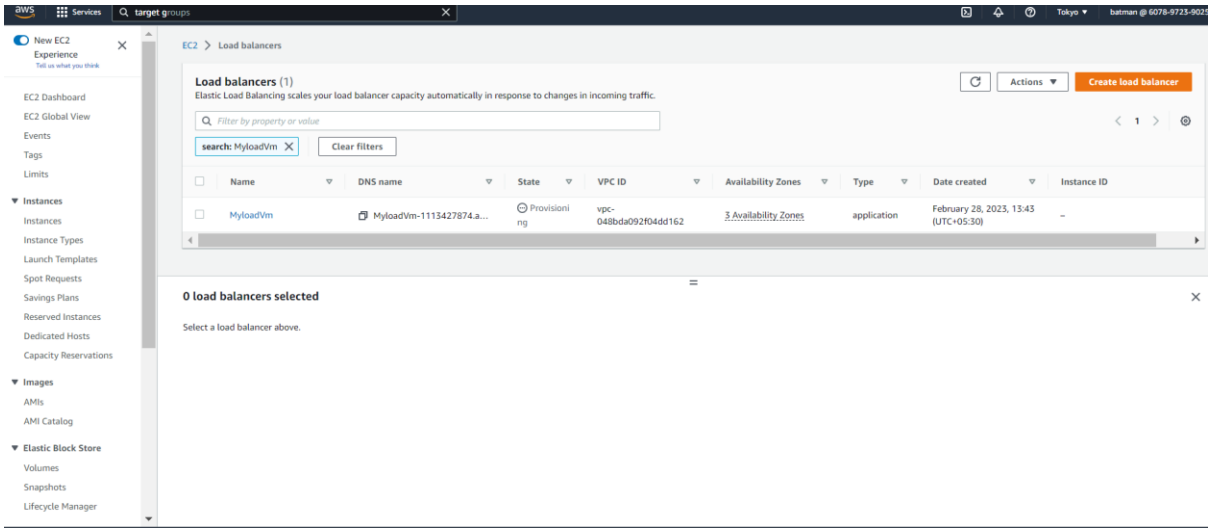
- Registering the target in the target group:





- Creating Elastic load balancer (MyloadVm) :





- Load balancer is distributing traffic to the target VM: