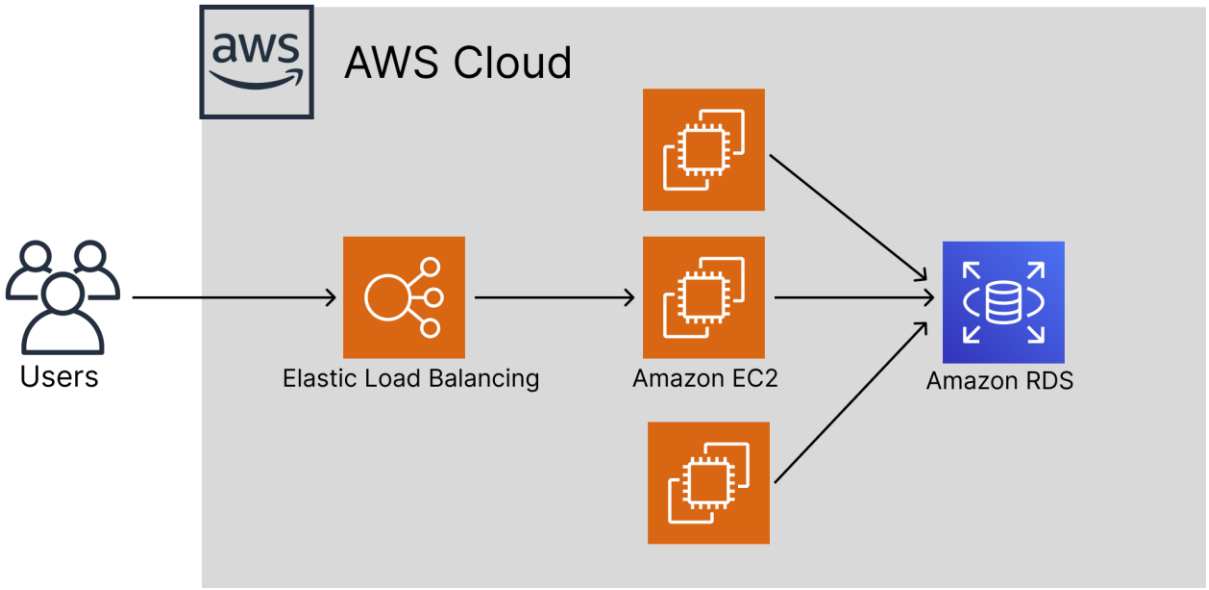
Assignment 6

Ques: Complete the below task:

1. Explain the below AWS Architecture

P.S – I have updated the diagram

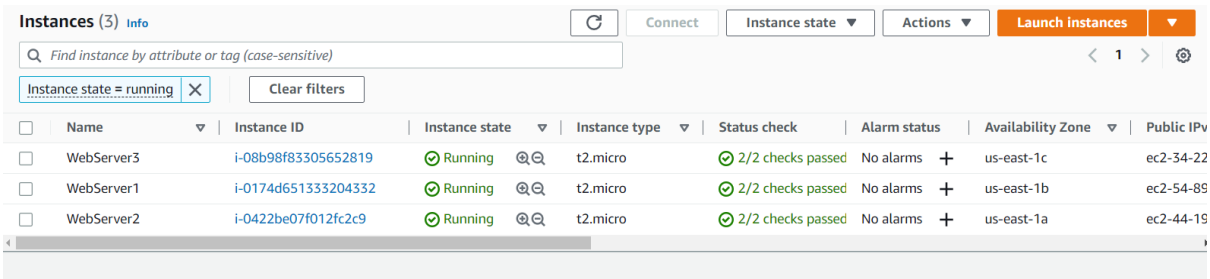


This diagram has 3 AWS service – ELB, EC2 and RDS.

1. Traffic from user will not directly hit the web application deployed to EC2 instance. It has to go through ELB and ELB will route the request to EC2 instance as per traffic.
2. ELB is connected with EC2 to distribute all the traffic from user to EC2 to handle the load.
3. EC2 instances are connected with RDS database to store the relational data.

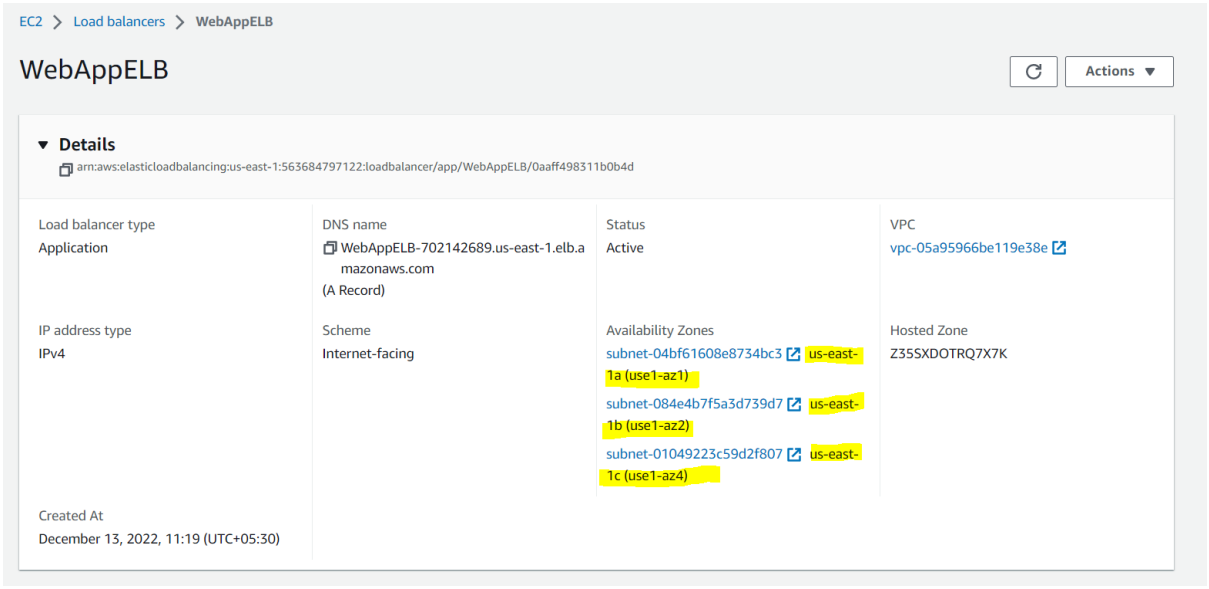
2. Implement the same in the AWS(only do a proper connection between service)

1. Create EC2 instance

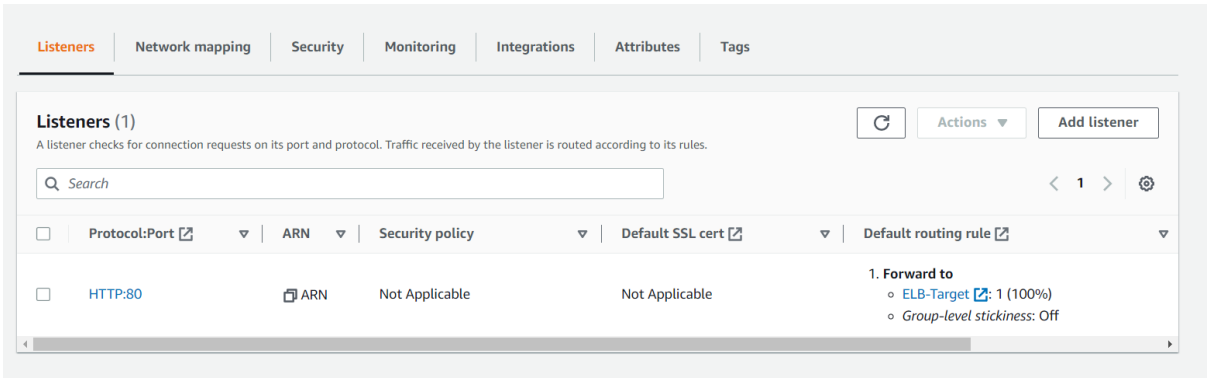


Created 3 EC2 instance in 3 different region

2. Create ELB and Target group



Created Load balancer with 3 Availability Zone



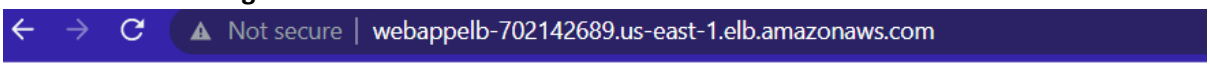
Listening to Port 80 with Target Group ELB-Target which redirect traffic to EC2 instances

Webserver 1 Private IP - 172.31.80.39

Webserver 2 Private IP - 172.31.15.169

Webserver 3 Private IP - 172.31.23.157

Let's browser through DNS of ELB

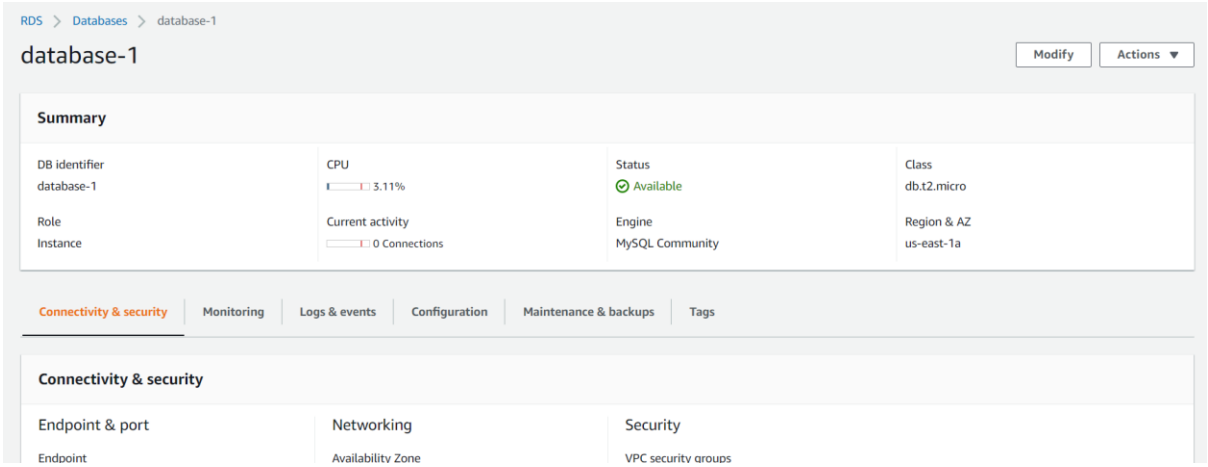


Hello World from ip-172-31-23-157.ec2.internal

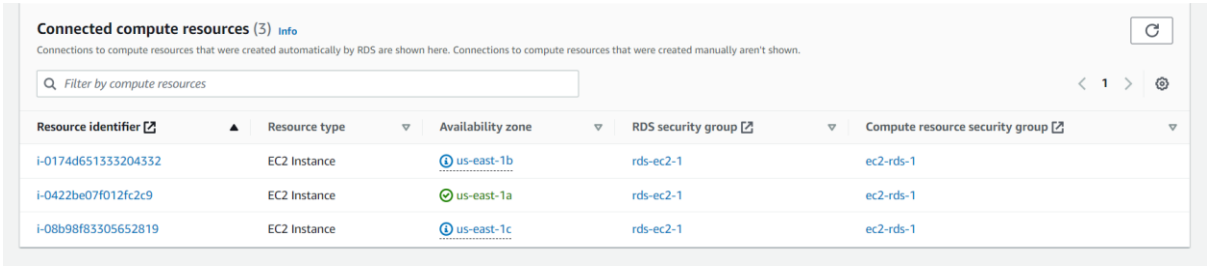
It redirects traffic to webserver 3 after refresh it redirects to Webserver 2

Hello World from ip-172-31-15-169.ec2.internal

3. Create RDS database



Created RDS Databases



Connected EC2 instances with RDS database