Neha – M1040187

Assignment 2- Implement load balancer & auto scaling in EC2 instance with Spring Boot

Step 1:

Create spring boot applications(demo-ec2) with two end point (<http://192.168.0.193:8080/about> and <http://192.168.0.193:8080/home> )

Graphical user interface, text, application

Description automatically generated

Step 2:

Create a Security to accept request from 8080 port for Springboot Application:

Graphical user interface, application

Description automatically generated

Step 3:

Create a Launch Template to set up Auto Scaling draft

Graphical user interface, text, application, email

Description automatically generated

Step 4:

Create Auto Scaling group using launch template with new Load Balancer and Target Group.

Please follow steps:

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Ready: Now 2 EC2 instance based on Auto Scaling configuration would be ready

Graphical user interface, text, application, email

Description automatically generated

Step 5:

Ec2 Instance is ready to deploy Spring boot application with custom LB and AS – I have renamed 2 instance as **home** and **about**:

Graphical user interface, text, application

Description automatically generated

Step 6:

SSH EC2 instance install java and run Spring Boot jar to proceed further

A computer screen capture

Description automatically generated with medium confidence

Graphical user interface, text, application

Description automatically generated

Load Balancer - DNS

Graphical user interface, text

Description automatically generated

Step 7:

Update LB port as 80 to make it user friendly and hit Load Balancer DNS as below:

Graphical user interface, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Step 8:

We are receiving email of instance creation and other life cycle:

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text

Description automatically generated

Step 9:

Hit load increase command in one of the instance and check EC2 matrixes, note our instance are getting created as soon as one instance terminates.

A screenshot of a computer

Description automatically generated

Graphical user interface, application

Description automatically generated

Step 10:

Check for all created resource and delete after use to avoid cost – EC, LB, ASG & LT

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

