**Scaling the EC2 Instance Based on Monitored CloudWatch Metrics**

1. Create Target Group and Load balancer:

TG-ASB: select EC2 instances as target groups for Load balancing.

LB-ASB:

1. Auto scaling Group:

**Launch template:**

ASGtemplate1: Instance Type: t2.micro Ubuntu AMI, Security Group to allow ssh and HTTP.

**User Data script** to launch webserver:

#!/bin/bash

Sudo apt-get update -y

Sudo apt-get install apache2 -y

Sudo systemctl enable apache2

Sudo systemctl start apache2

Echo “<H1>Hello World from $(hostname -f)<H1>”>/var/www/html/index.html

**ASG1:**

Attach LB-ASG and ASGtemplate1

1. Create CloudWatch alarm:

To count the number of connections to the website and set the alarm as if it has more than 3 connections scale in ec2 instances with supplied Launch template in Auto scale group.

Attach created CloudWatch alarm to ASG under dynamic scaling.

**ASGAlarm:** select ‘ActiveConnectionCount’ under metric ‘AplicationELB’.

1. As We declared Alarmin status activates when connections greater than 3, it will activate and notify ASG to scale in 2 more instances.

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A computer screen shot of a computer

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