#### **Question 1**

### Step 1:

Create an EC2 instance and choose AMazon Linux AMI.

## Step 2:

Choose instance type t2 micro

### Step 3:

In the configure instance detail tab enable the auto assign public IP and add the following code in the Advance Detail user data body

#### #!/bin/bash

yum update -y

amazon-linux-extras install -y lamp-mariadb10.2-php7.2 php7.2

yum install -y httpd mariadb-server

systemctl start httpd

systemctl enable httpd

usermod -a -G apache ec2-user

chown -R ec2-user:apache /var/www

chmod 2775 /var/www

find /var/www -type d -exec chmod 2775 {} \;

find /var/www -type f -exec chmod 0664 {} \;

echo "<?php phpinfo(); ?>" > /var/www/html/phpinfo.php

### Step 4:

Add storage and tags as per the need.

#### Step 5:

Configure the security group for the instance by allowing HTTP port to the instance.

### Step 6:

Review and launch the instance.

## Step 7:

Connect to your instance with following command

ssh -i "ketavbhatt-PE.pem" ec2-user@ec2-3-87-219-152.compute-1.amazonaws.com

## Step 8:

Command 'sudo service httpd start' is to start the apache server.

#### Step 9:

Add index .html in html folder

#### cd /var/www/html

## nano index.html

Hence we have added an index.html file in our EC2 instance.

# Step 10:

Attach Auto scaling group to the instance.

Create a new Auto Scaling Group by giving name to it.

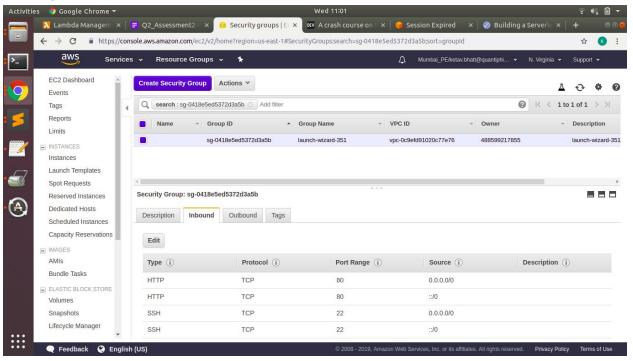
#### Step 11:

Create a new Load Balancer and a new target group.

## Step 12:

Now add target to your Auto scaling group which is already connected to your instance.

# **Security Group Rules:**



# **Listener Configuration:**

