Question 1

Step 1 - Creating Instance

- Choose AMI Amazon Linux AMI 2018.03.0 (HVM), SSD Volume Type
- Choose Instance Type t2 micro
- Configure Instance Details fill in the additional details to auto install apache in your instance
 - Use the script -#!/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 "<h1>Hello World!</h1>" > /var/www/html/hello.html
- Add Storage
- Add Tags
- Configure Security Group Using existing
- Review and Launch
- Select type of Key for that instance

Step 2 - Deploy file on server

- Connect to your instance using ssh -i "krutik-assessment.pem" ec2-user@ec2-3-94-101-54.compute-1.amazonaws.com
- Elevate privileges sudo su
- Start apache service service httpd start
- Navigate cd /var/www/html
- Add index.html nano index.html

Step 3 - Create Auto Scaling Group From Instance

- From actions select Attach Auto Scaling Group
- Use an existing or Create a new Auto Scaling Group by providing the name

Step 4 - Create Load Balancer

- Now Create a new Load Balancer Application Load Balancer
- Configure Load Balancer

- Configure Security Settings
- Configure Security Groups
- Configure Routing
- Register Targets
- Review and Launch

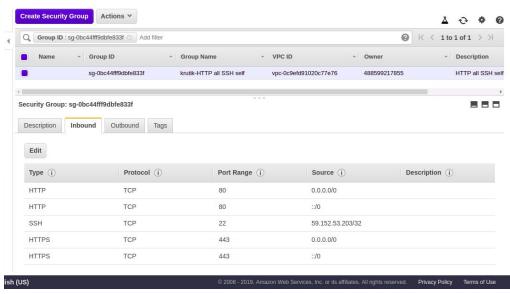
Step 5 - Assign Target in Auto Scaling Group

 Now add the target (load balancer) in the Auto Scaling Group to which the instance is attached.

SCRIPT

```
#!/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 "<h1>Hello World!</h1>" > /var/www/html/hello.html
```

Security Group Rules



Listener Configuration

