Creating a load balancer for managing request from different Ec2 instances

Aim:

Exploring the use of Load balancer(Ec2) service in amazon.

Required AWS services:

Load Balancer, 3 EC2 instances

Procedure

1. Create a linux instance
2. Security group – SSH,HTTP – Anywhere
3. Launch the instance
4. Update OS

sudo yum update -y

1. Install the apache web server (httpd)

sudo yum install httpd -y

1. Enable at startup, and start service.

sudo systemctl enable httpd

sudo service httpd start

1. Create a new default page

sudo nano /var/www/html/index.htm

edit it

1. stop the instance
2. Create an AMI
3. Actions -> Image -> Create Imag
4. Launch 3 instances with the created AMI

i). Az: us-east-1a , t2.micro , Subnet – eu-west-1a(eu-west-1b, eu-west-1c), default VPC, security group -HTTP, SSH

c. To edit the webpage

sudo nano /var/www/html/index.htm

1. Create Load Balancers
2. Application Load Balancer, Availability Zones – default
3. select all three subnets of EC2 instances
4. security group SSH,HTTP
5. Give your target group a name and leave the default settings
6. Register 3 instances with the load balancer
7. Select the instances and “Add to registered”
8. Copy the DNS from load balancer
9. In browser

http://load-balancer-dns-name.

1. Refresh to find out which instance handled that particular request.