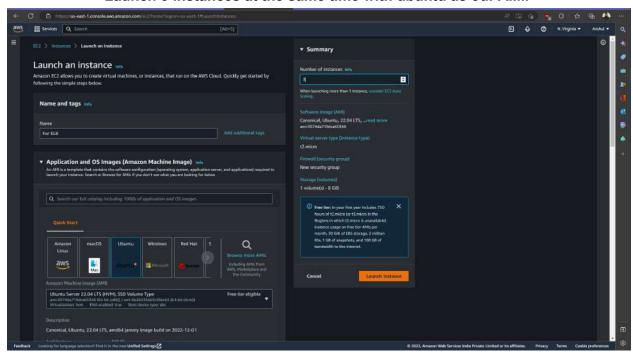
# Module-3: ELB Assignment - 1

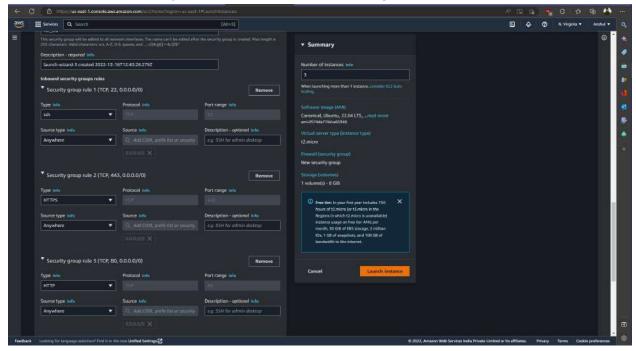
## You have been asked to:

- 1. Create a Classic Load Balancer and register 3 EC2 instances with different web pages running in them
- 2. Migrate the Classic Load Balancer into an Application Load Balancer.



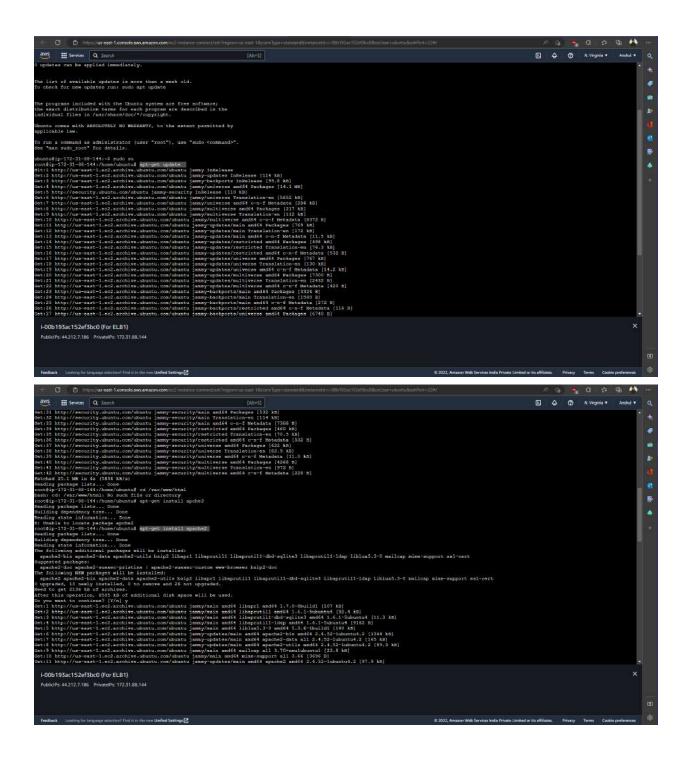
Launch 3 instances at the same time with ubuntu as our AMI.

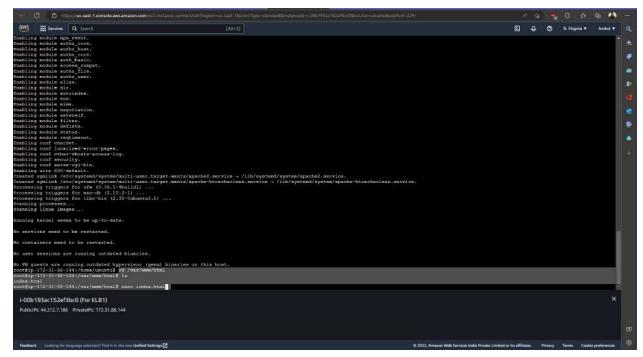
# Create security for the instance with allowing traffic for ssh,http,https.



## Step3:Follow these steps to all three instances.

First: Update using 'sudo apt-get update'
Install apache2 for hosting website using 'apt-get install apache2'
Now change directory to edit html file to be displayed on web server.
cd /var/www/html
rm index.html
nano index.html

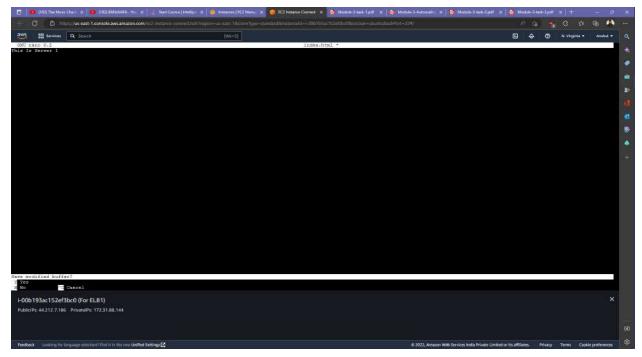




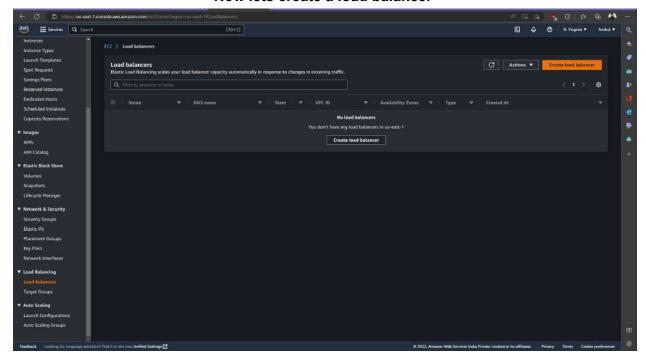
#### This is the page we see before editing index.html file.



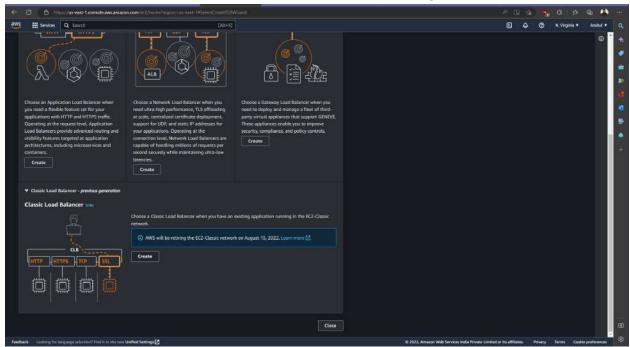
# Here edit as "This Is Server <respective server number>". This is index.html file being edited.



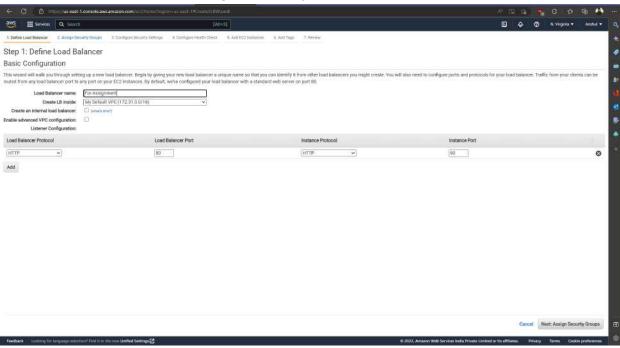
#### Now lets create a load balancer



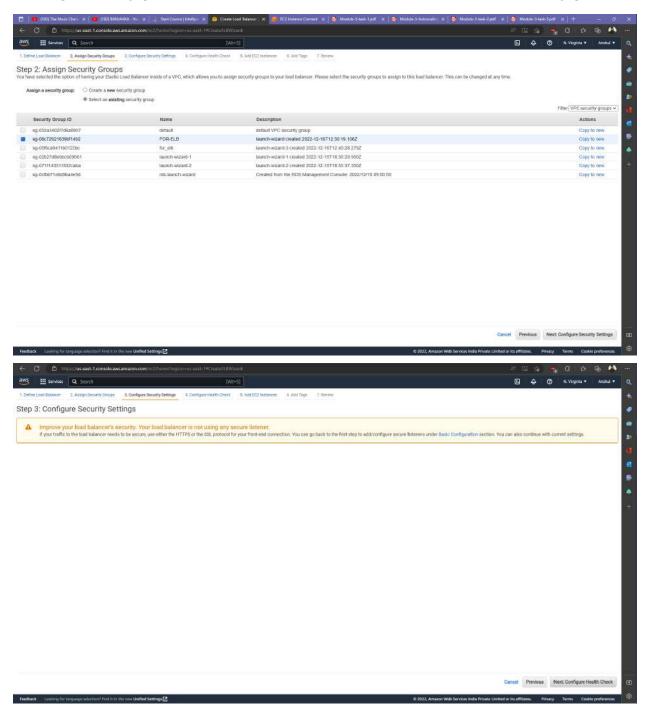
# Select classic load balancer for this assignment.



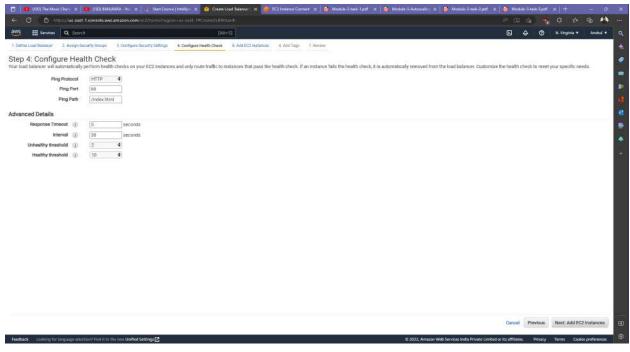
## Assign name to your load balancer



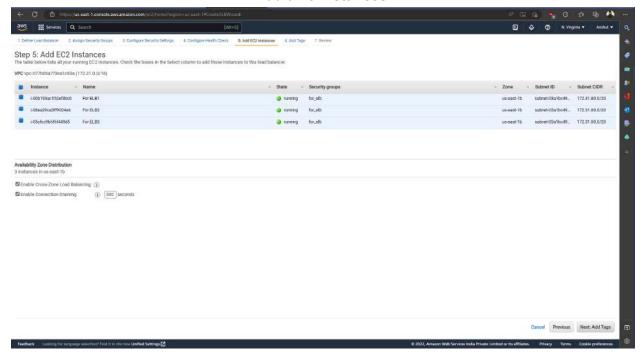
# Assign security group. Make sure to allow all HTTP traffic in selected security group.

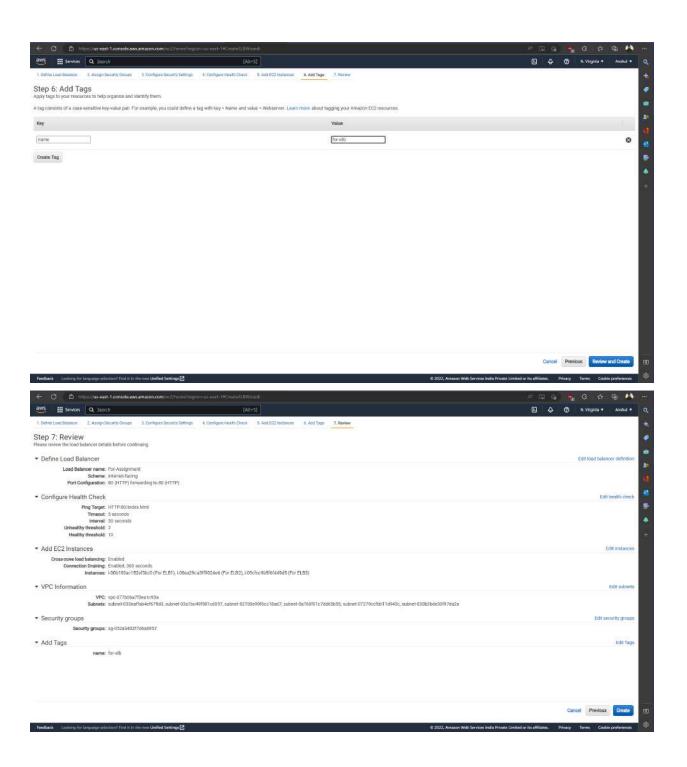


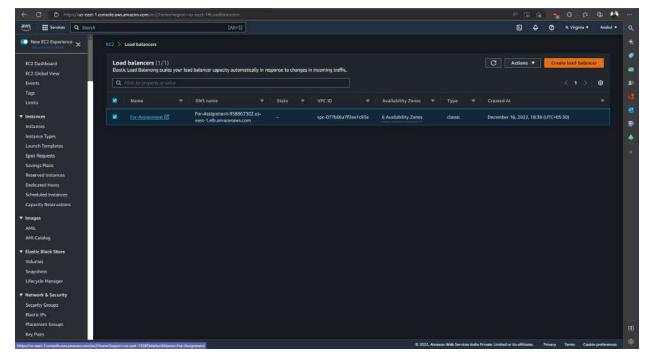
# For health check it will ping index.html file.



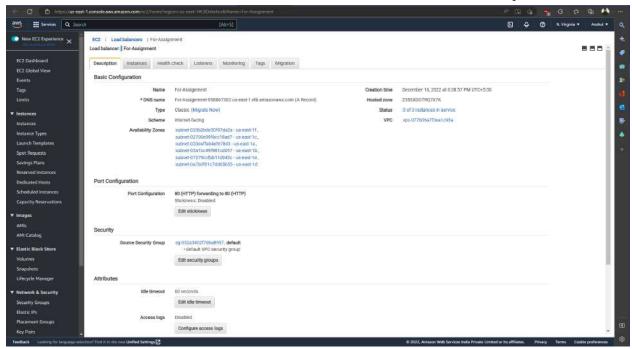
#### Add all 3 instances



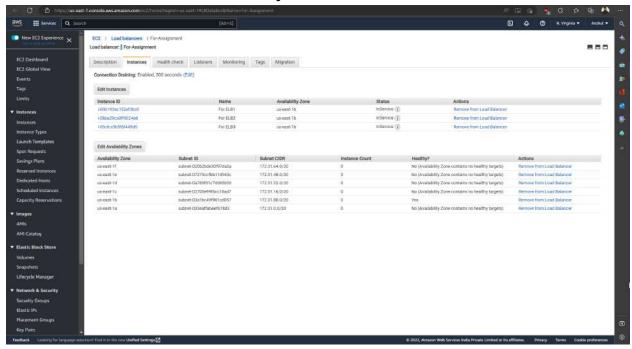




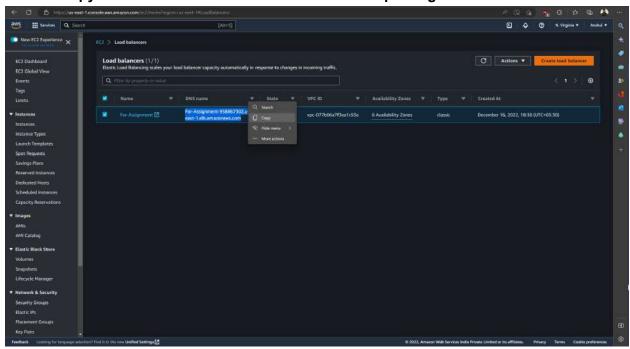
Click on created load balancer check if instances are ready.



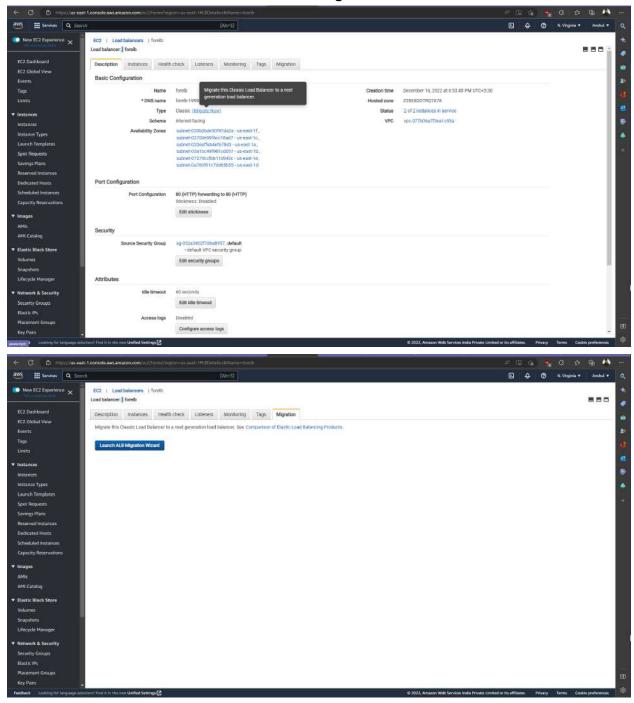
# They are in service



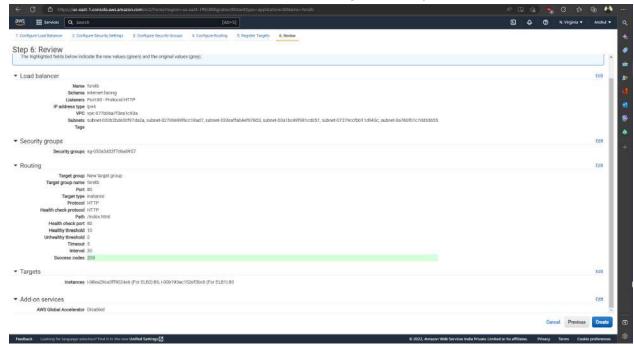
#### Copy the dns of load balancer and check after pasting it as url in browser



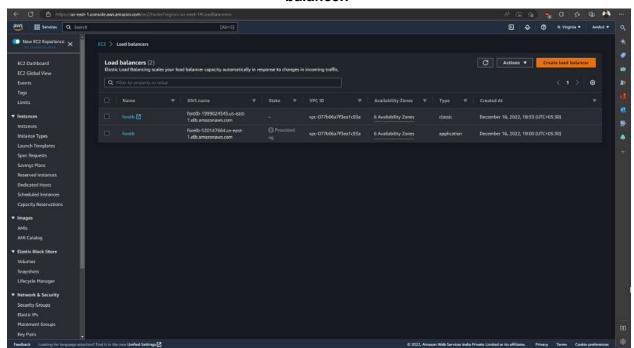
# To change classic load balancer to application load balancer click on load balancer and then choose migrate now.



Click on create to migrate finally.



Your load balancer has been migrated from classic load balancer to application load balancer.



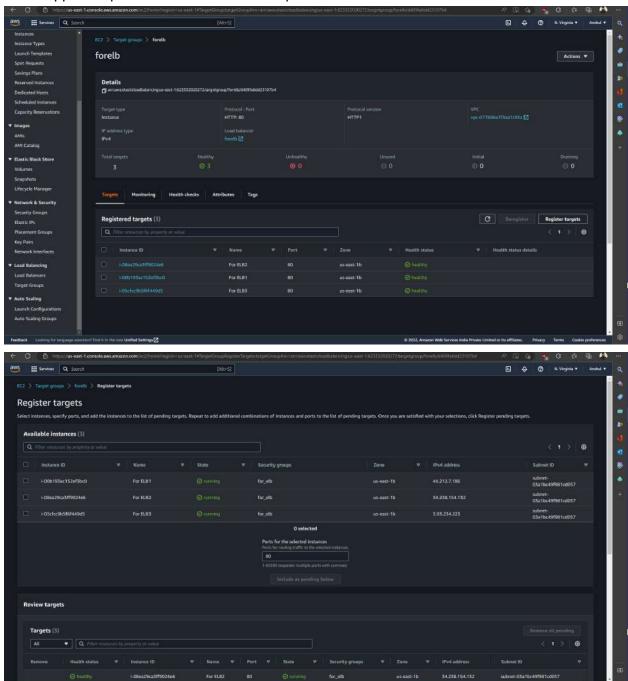
# Optional:Since we created an Application load balancer let's apply load accordingly.

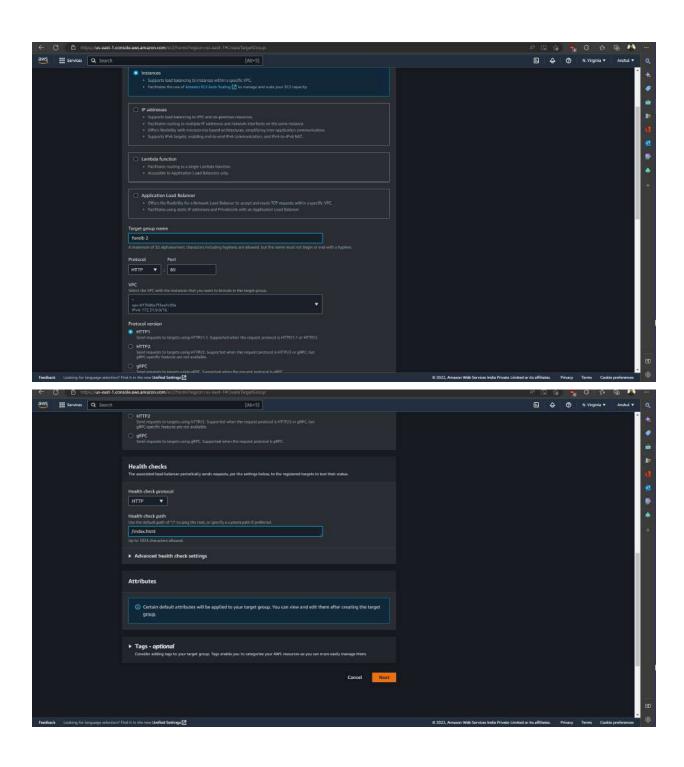
First create 3 target groups for 34 instances separately.

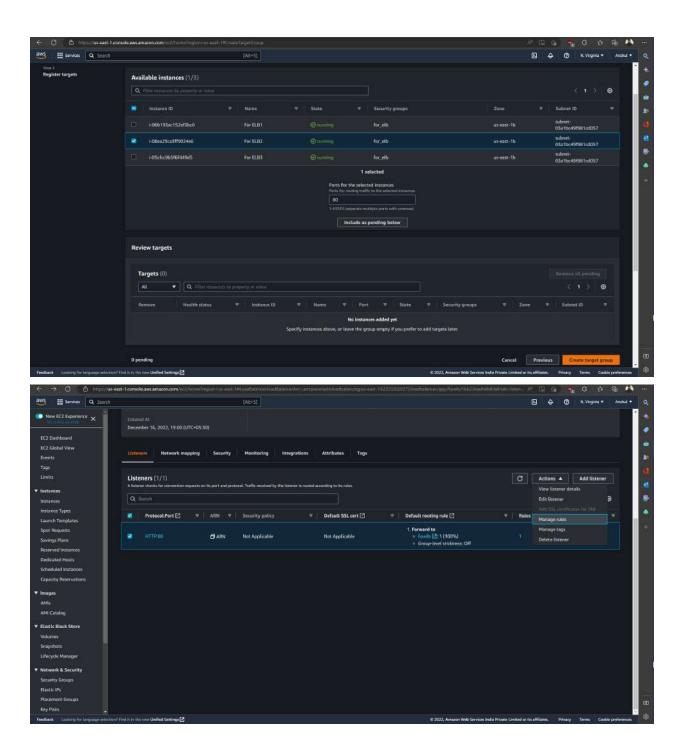
Then go to load balancer, select the listener, go to the actions drop down menu and select edit listeners.

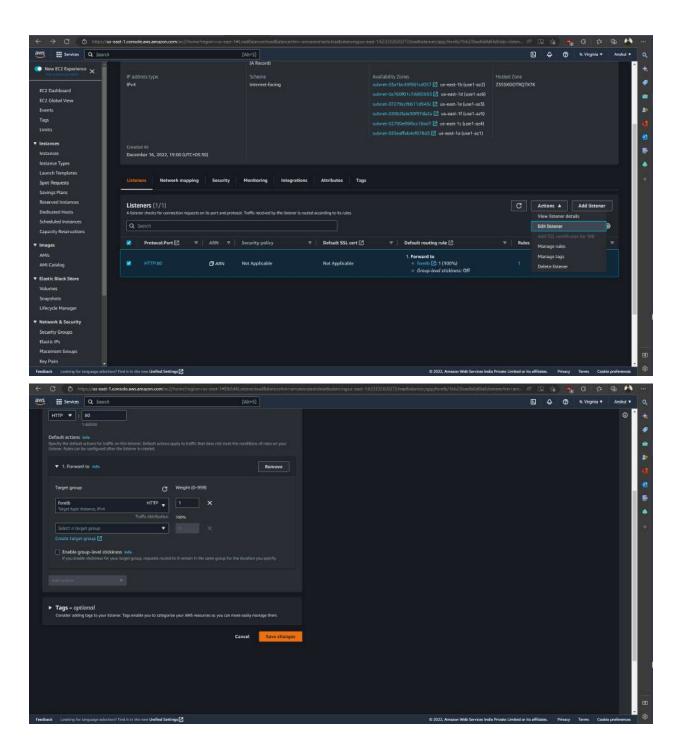
Add 3 target groups with load assigned according to you.

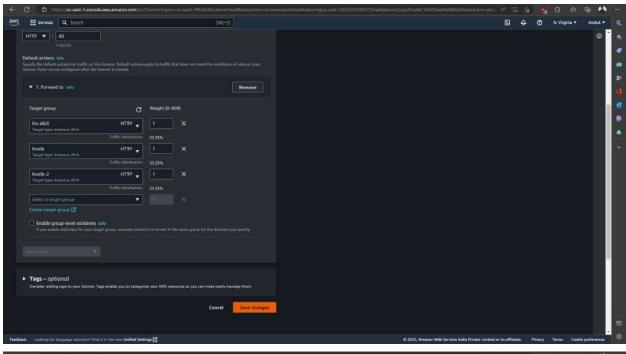
Here I applied equal load i.e 1 1 1 i.e 33.33 percent.





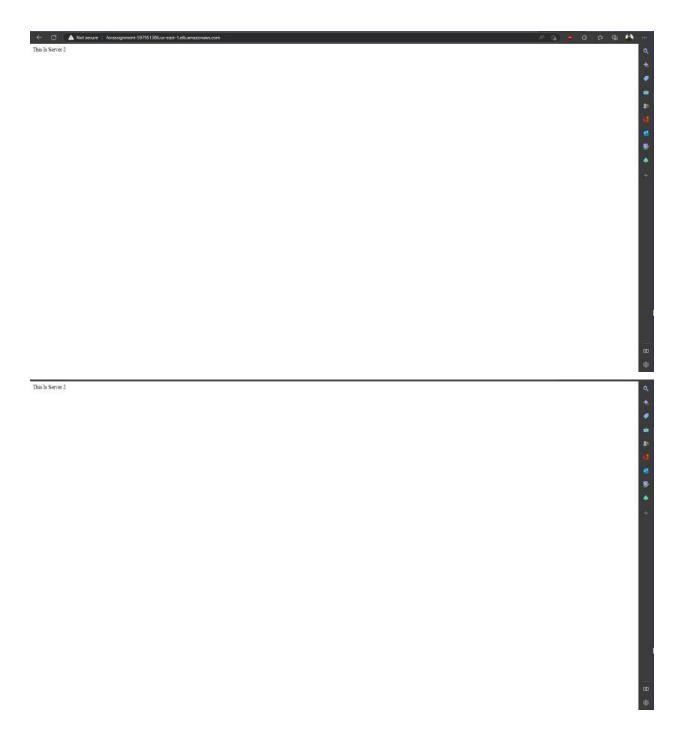






← C ▲ Not secure | forassignment-597951386.us-east-1.elb.amazonaws.com

This Is Server 1



# **Final Result:**

**Use:** "for i in {1..10}; do curl your-alb-dnsname.us-east-1.elb.amazonaws.com; done" to test the traffic distribution.

Result in our case is as follows.

