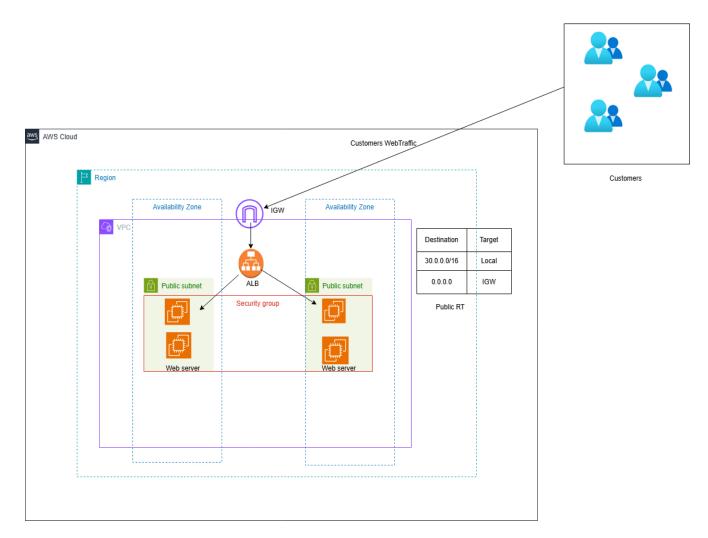
# AWS CLOUD SOLUTIONS PROJECT 2 Setting Up An Application Load Balancer On AWS Cloud.

This project shows a detailed step-by-by process of setting up an application load balancer on AWS cloud.

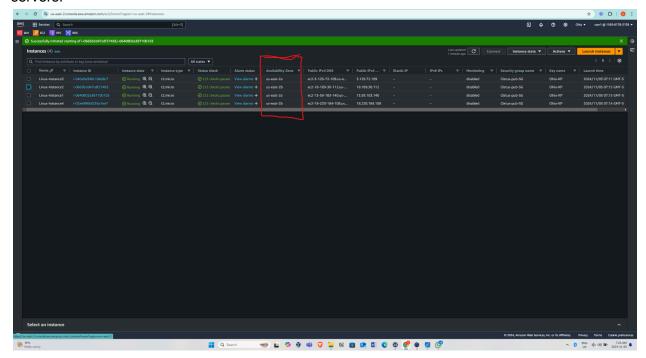
This project validates my knowledge and skills in the following areas on AWS cloud.

- 1. AWS infrastructure (Load balancer)
- 2. IP Address (Cidr block)
- 3. Subnetting
- 4. Virtual Machines (EC2)
- 5. Linux
- 5. Network Traffic
- 6. Security (SG and NACL)

Below is the architectural diagram of this project:



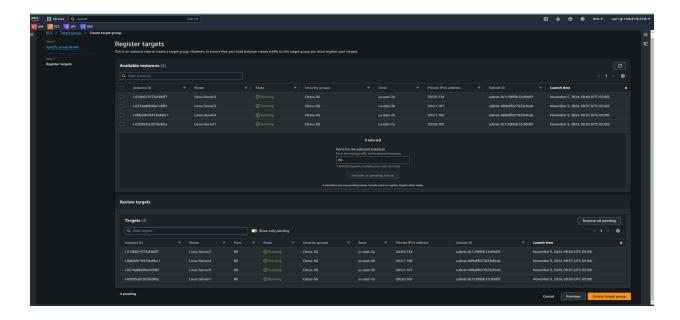
Spinning up four linux servers in 2 availability zones. Two in each of the availability zones. This is for the purpose of ensuring high availability of the application that would be hosted on these servers.

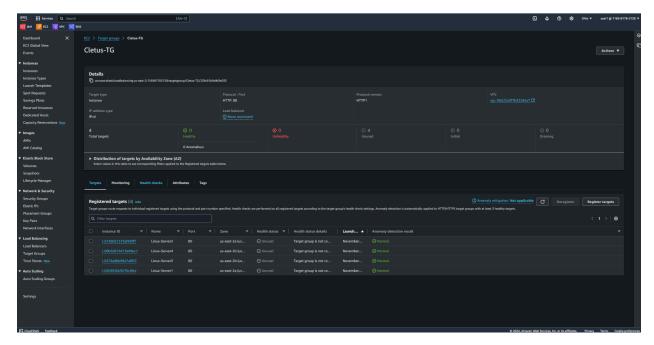


#### Step 2

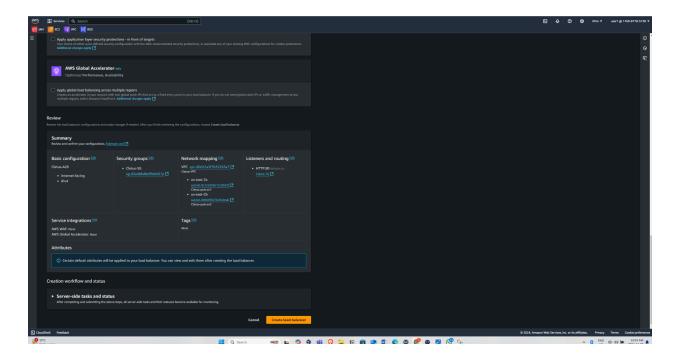
Connect to each instance via SSH and install the Apache2 web server. Once the installation is complete, I will modify the index.html file on each server to include unique content for easy identification. This will help differentiate the servers when accessing them through an application load balancer.

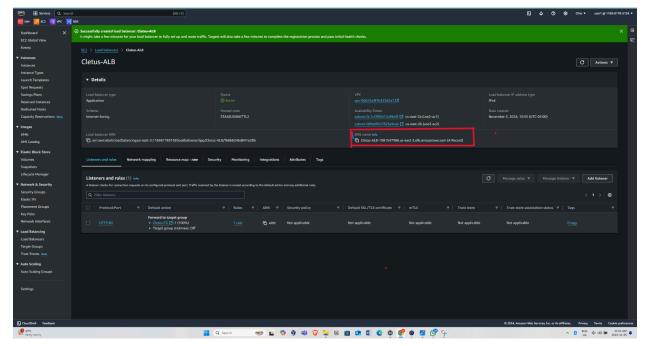
Create a target group. Target group is a group of instances or servers that the load balancer wound direct incoming traffic to based on specified configurations. So I will be putting the four servers I have created in one target group.



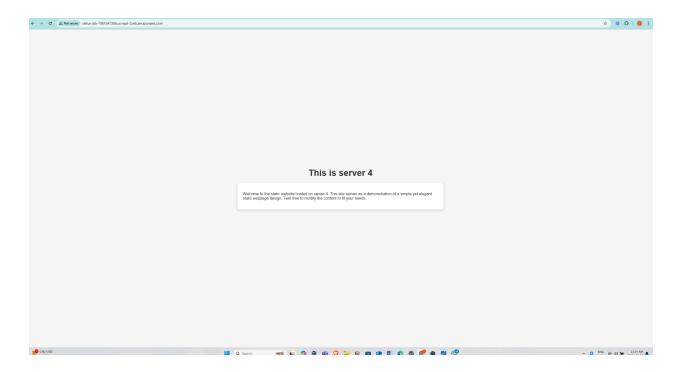


Create an Application Load balancer and associate it with the target group I have created. This will ensure that incoming traffic directed to the load balancer would be routed to the servers within the target group.





Browsing for the DNS A record of the load balancer to verify what I have done so far.



Every time I refresh, I receive a response from a different server. This confirms that the four servers placed behind the load balancer are functioning properly and effectively handling incoming traffic.

