TASK – 19

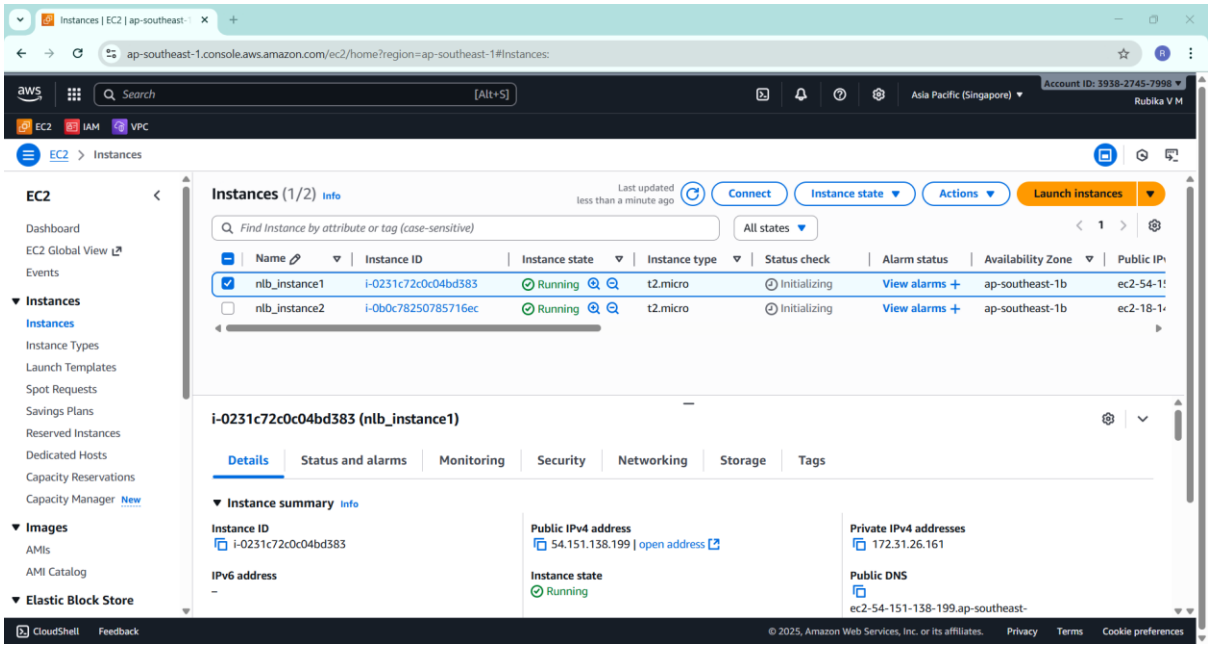
Elastic load balancer

Elastic Load Balancing (ELB) in AWS is a service that automatically distributes incoming application traffic across multiple targets, such as EC2 instances, containers, and IP addresses, within one or more Availability Zones. It enhances application availability and fault tolerance by ensuring that no single target is overwhelmed with traffic and by routing requests only to healthy targets.

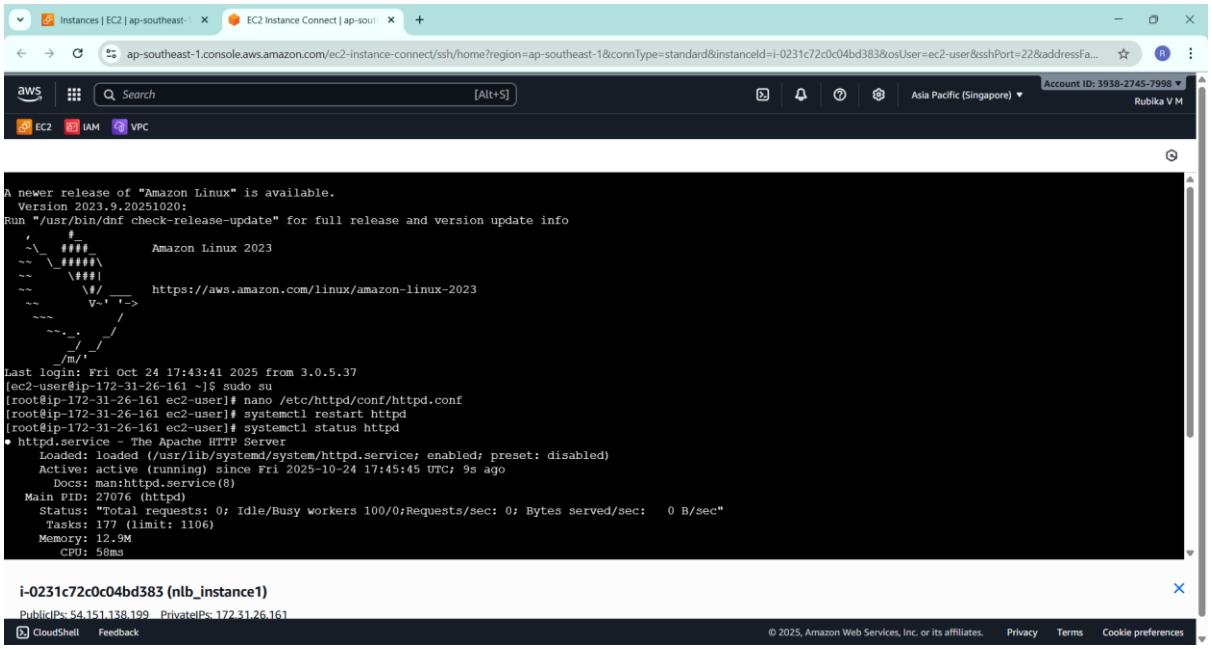
Network load balancer

An AWS Network Load Balancer (NLB) is a high-performance load balancer that operates at the transport layer (OSI Layer 4) to distribute TCP, UDP, and TLS traffic across targets like EC2 instances and containers. It can handle millions of requests per second with ultra-low latency, making it ideal for high-throughput, network-intensive applications like gaming, streaming.

Creation of instance

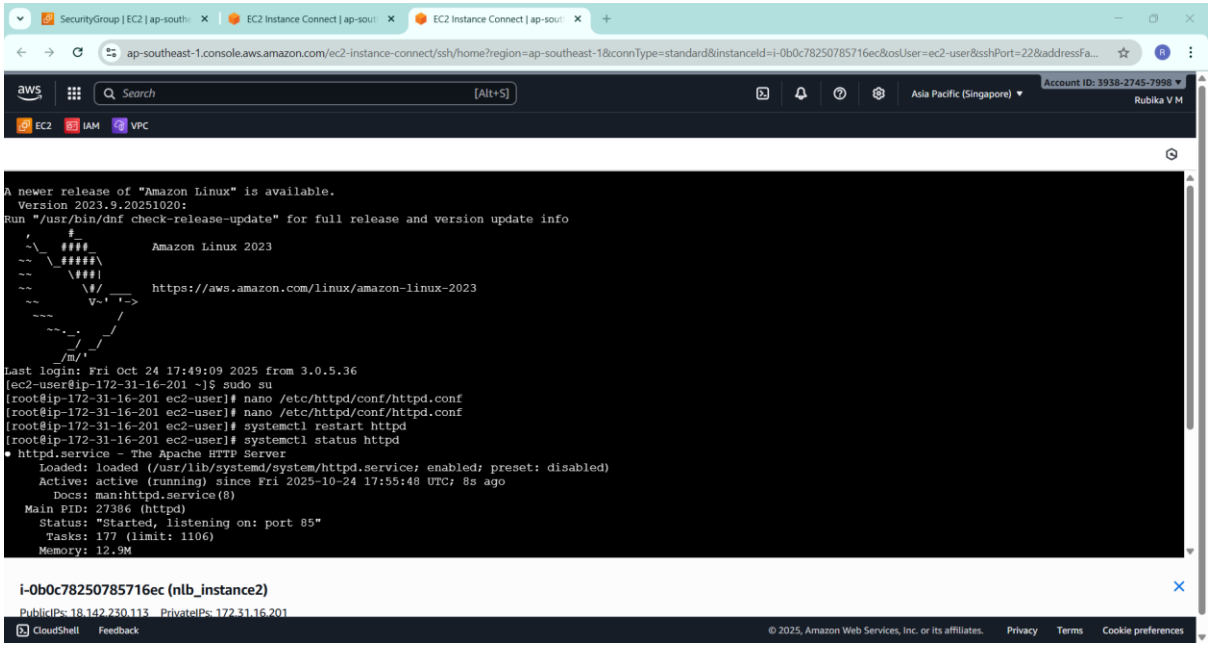


Changing port number in instance 1



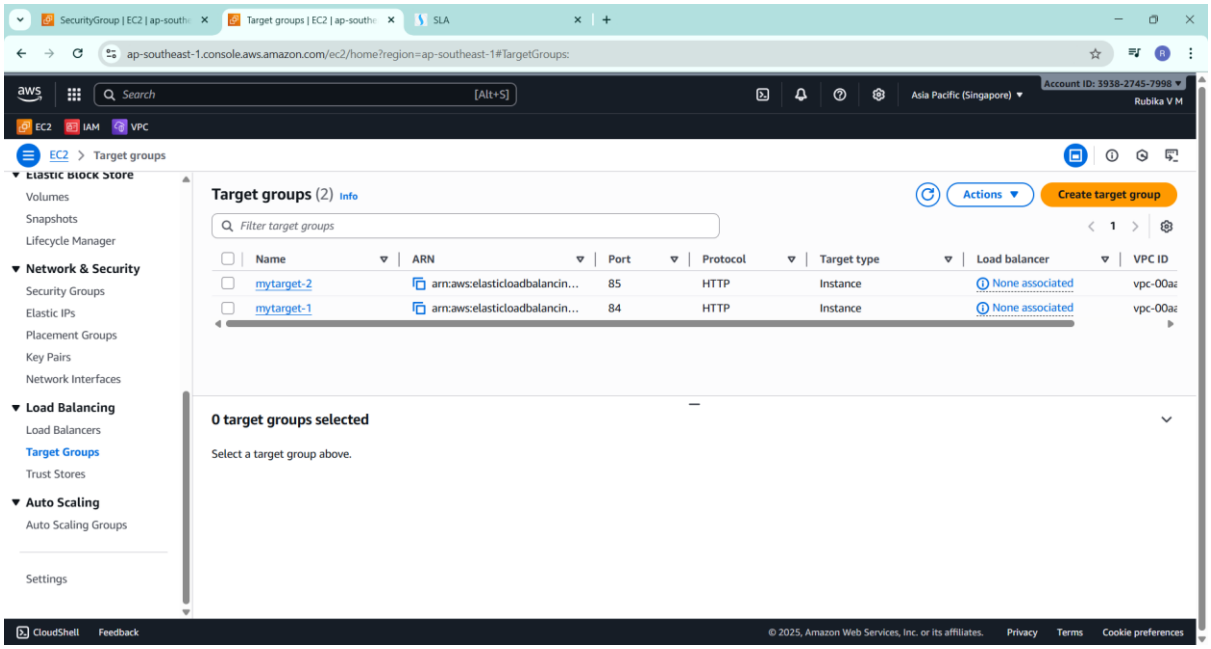
This is my NLB_1

Changing port number in instance 2

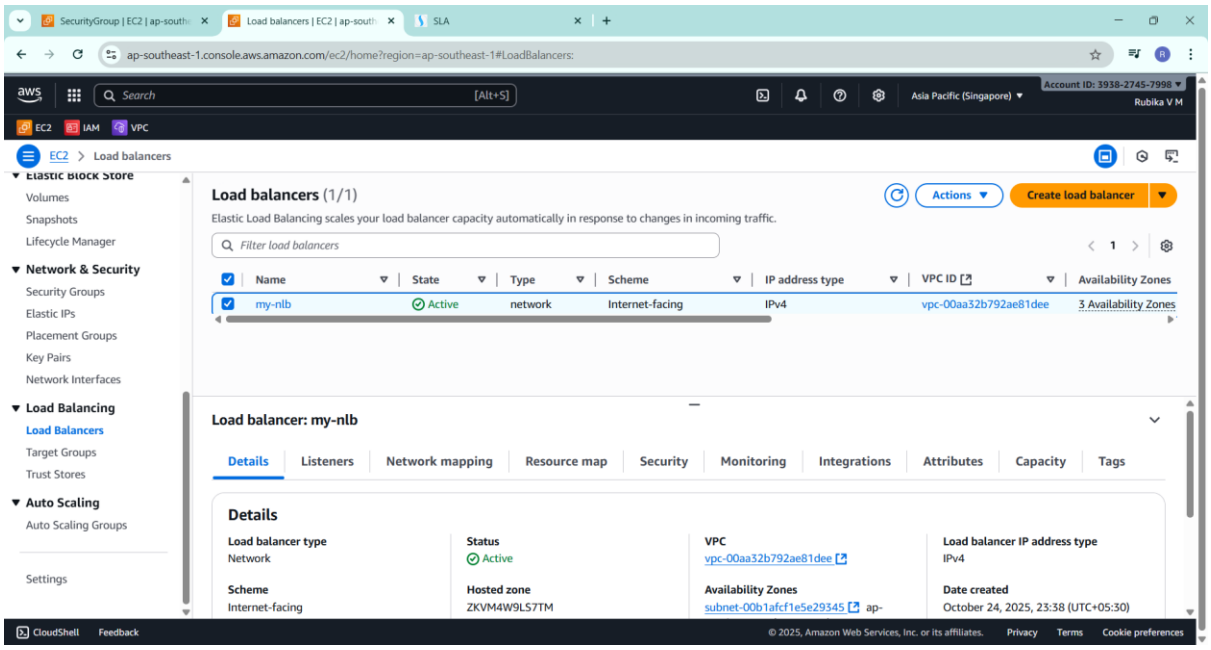


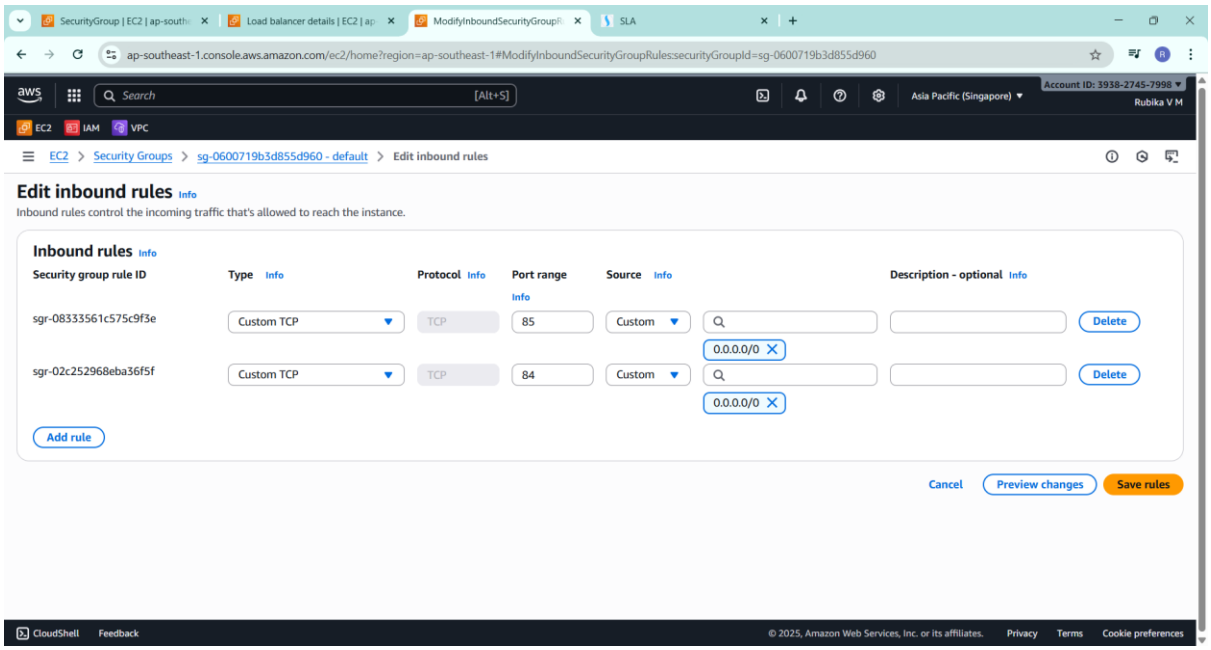
This is my NLB_2

Creation of Target group



Creation of load balancer





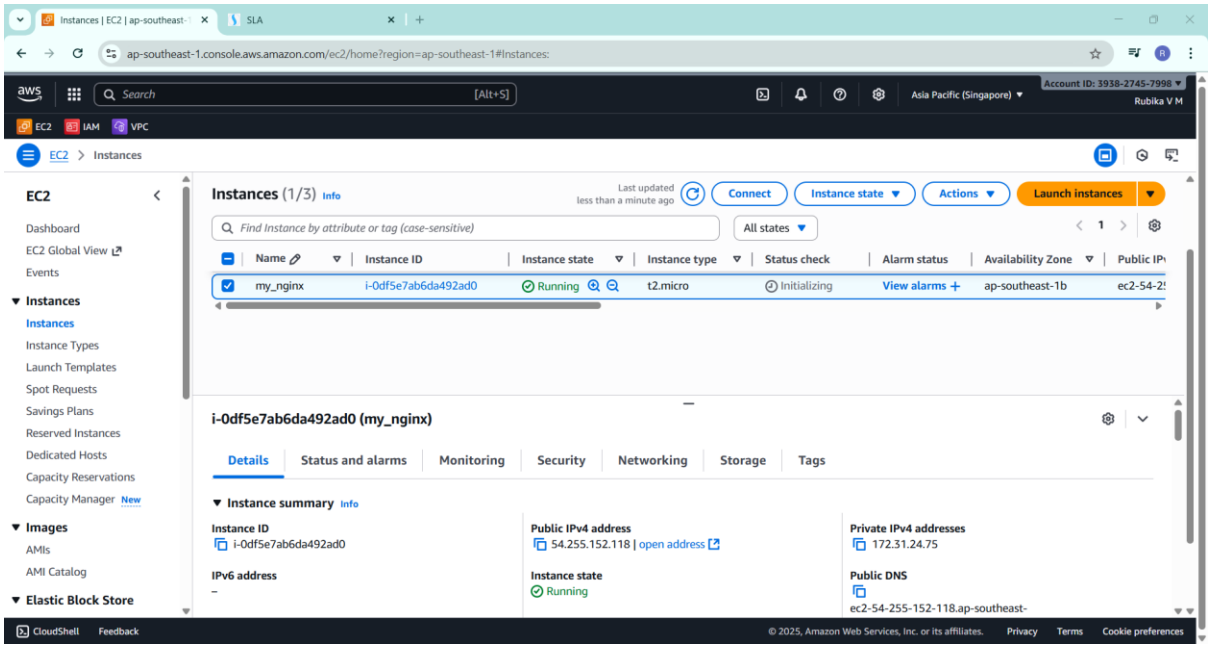
Check for outcome through DNS

This is my NLB_1

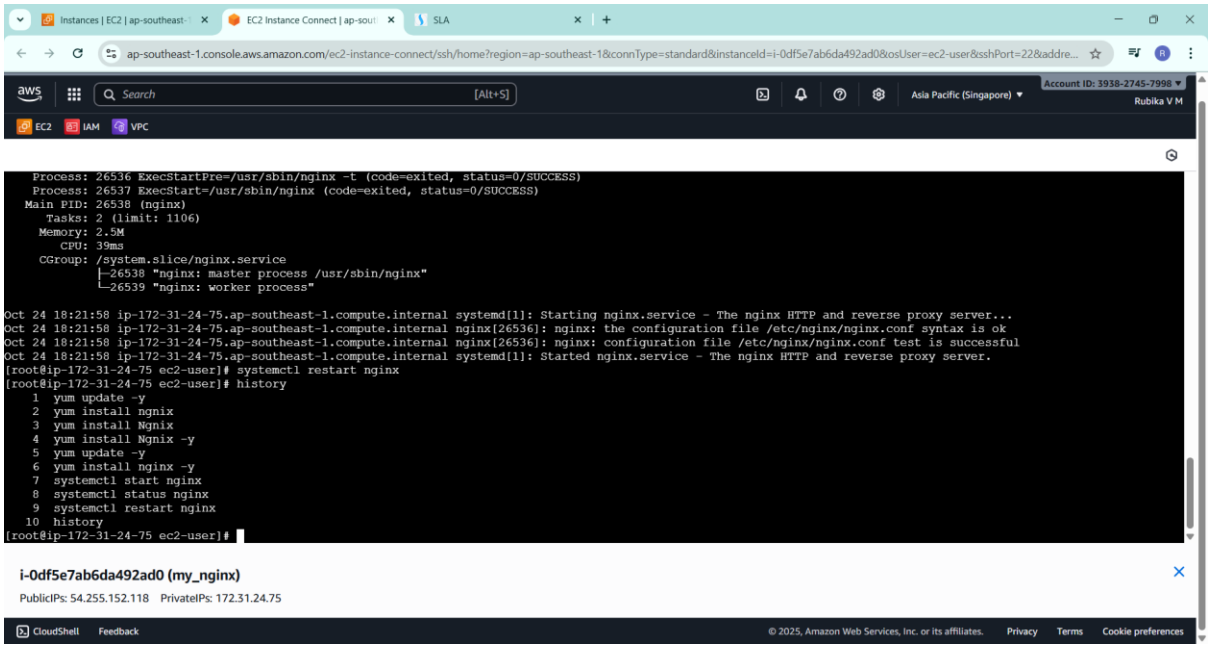
This is my NLB_2

Hosting Nginx:

Creation of instance



Installing the package of Nginx



Output

Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.