ELB IN AWS

Elastic Load Balancer (ELB) is a fully managed service provided by AWS to distribute incoming application traffic across multiple targets, such as EC2 instances, containers, and IP addresses. It ensures high availability, scalability, and fault tolerance for your applications.

Types of Load Balancers:

Application Load Balancer (ALB)
Network Load Balancer (NLB)
Classic Load Balancer (CLB)

How ELB Works

Traffic Distribution:

ELB distributes incoming traffic across multiple targets (e.g., EC2 instances) in one or more Availability Zones.

Health Checks:

ELB periodically checks the health of registered targets and routes traffic only to healthy targets.

Auto Scaling Integration:

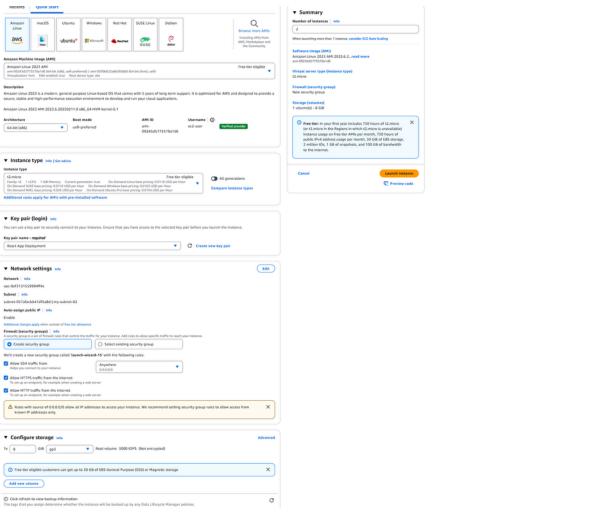
ELB works seamlessly with Auto Scaling to add or remove instances based on traffic load.

SSL/TLS Termination:

ELB can handle SSL/TLS decryption, offloading the computational burden from your backend instances.

Logging and Monitoring:

ELB provides access logs and integrates with Amazon CloudWatch for monitoring and alerting.



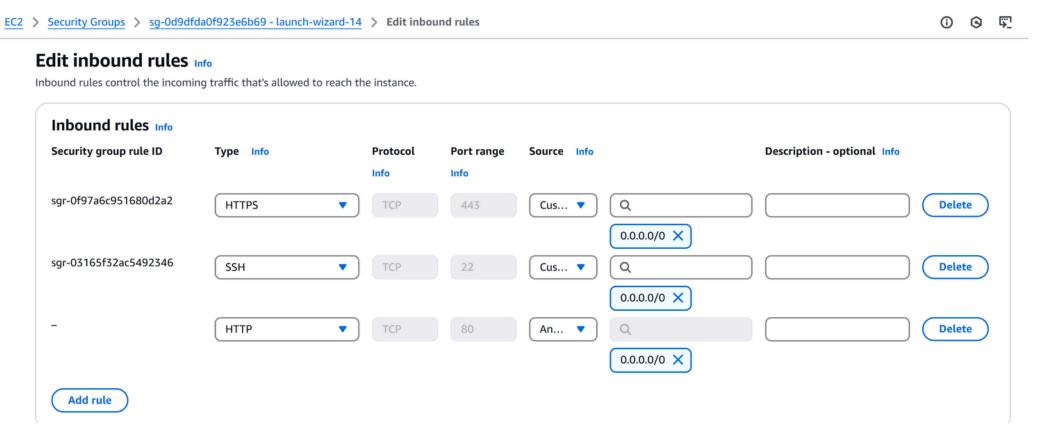
First Create Two EC2 Instance



Then in Additional Setting Set User Data



Then Check Two Instance Are Created



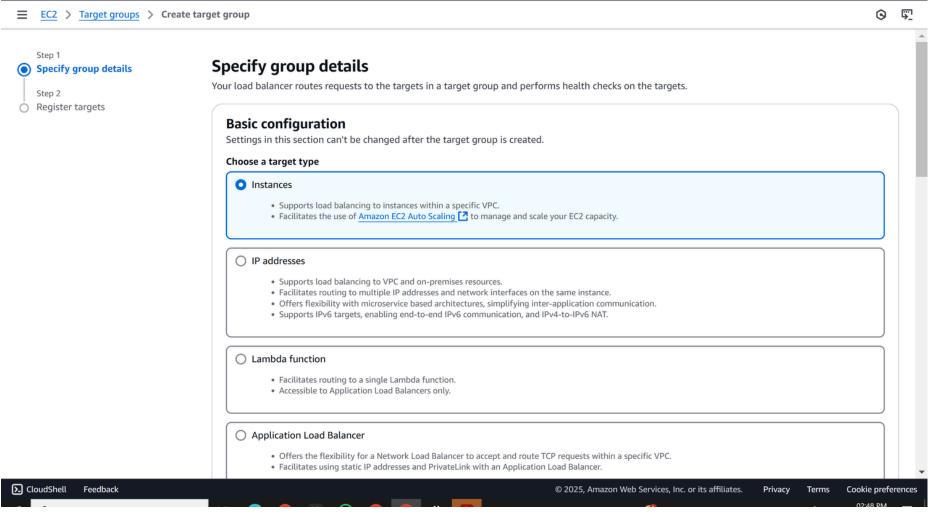
Then In both Instance in security group add http to from anywhereip ipv4

Hello World from ip-172-32-14-123.us-west-2.compute.internal

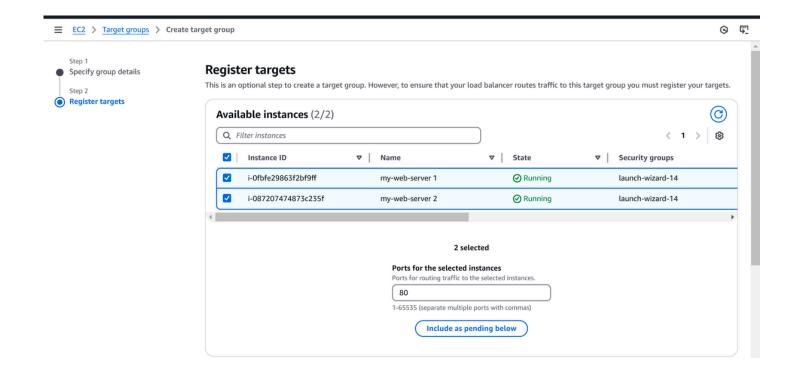
Then Copy that Instance ip and check in chrome its showing helloworld content and hostname

Hello World from ip-172-32-12-253.us-west-2.compute.internal

Then Copy that Instance ip and check in chrome its showing helloworld content and hostname

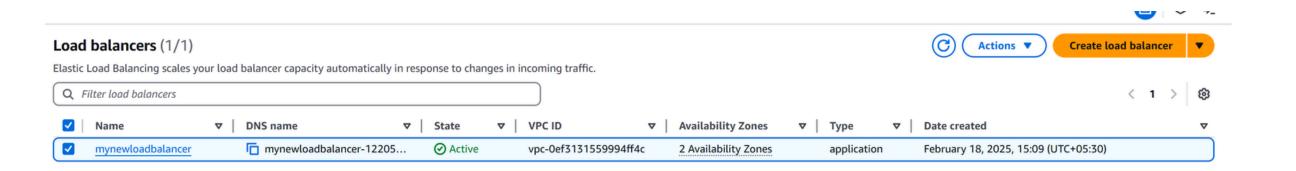


Then Create Target Group For Both Instance



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Listeners and routing and
A latence is a process that checks for connection-requests using the port and protocol you configure. The rules that you define for a latence determine how the load bulancer routes requests to its registered targets.
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Create Application Load Balancer
Then Select all availability Zone
Then Select EC2 Instance security group
Then in Listeners add a created target group
Then Create Load Balancer



Then Check Loadbalancer is activated after copy the dns name and past in google and check it



Hello World from ip-172-32-14-123.us-west-2.compute.internal

Finally Check That its working and reload anothe ip will be show Then loadbalancer is working