

# Elastic Load Balancer in AWS.

- What are AWS?

Amazon Web Services is a subsidiary of Amazon.com that provides on-demand cloud computing platforms for individuals, companies & governments, on a paid subscription basis, pay-as-you-go principle.

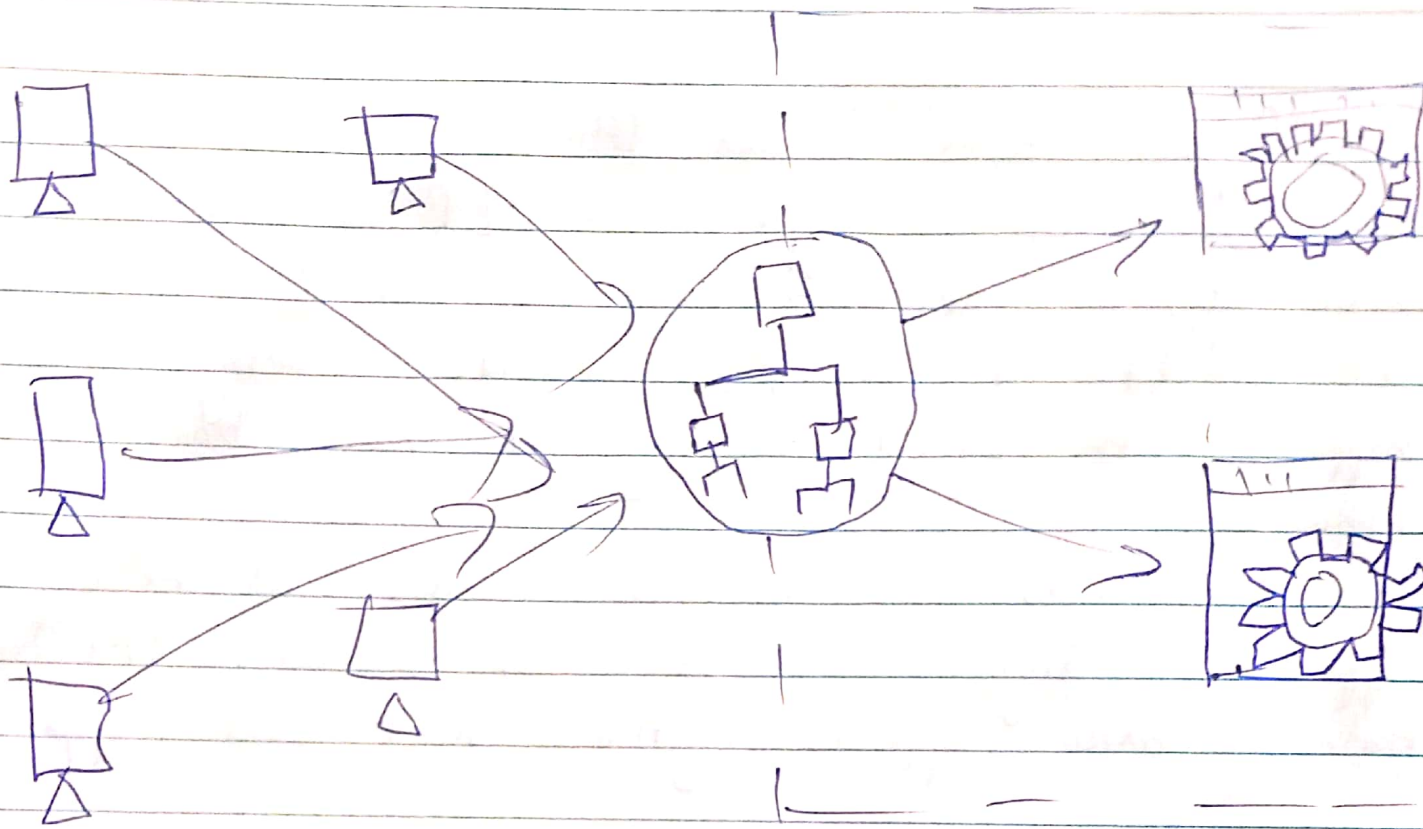
AWS offers a highly reliable, scalable, low-cost infrastructure platform in the cloud.

- How ELB?

The Elastic load balancer is a service provided by Amazon in which the incoming traffic is efficiently & automatically distributed across a group of backend servers in a manner that increases speed & performance.

It helps to improve the scalability of your application & secures your applications.

Load balancer allows you to configure health checks for the registered targets.



## - Types of Load Balancers

### 1] Classic Load Balancers:-

It is the traditional form of load balancers which was used initially. It distributes the traffic among the instances & is not intelligent enough to support host based routing or path-based routing. It ends up reducing efficiency & performance in certain situations.



## 2] Application load Balancer:-

This type of LB which was used when decision are to be made related to HTTP & HTTPS traffic routing. It supports path-based routing & host-based routing.

This load balancer works at the application layer of the OSI model. The load balancer also supports dynamic host port mapping.

## 3] Network load balancer:-

This type of LB works at the transport layer (TCP/SSL) of the OSI model. It's capable of handling millions of requests per second.

## 4] Gateway Load Balancer:-

Gateway LB provided you the facility to deploy, scales, and manage virtual appliances like firewalls. GELB combine a transparent network gateway & then distribute the traffic.