

### Elastic Load Balancing

ELB automatically distributes incoming application traffic across multiple targets, such as Amazon EC2 instances, containers, and IP addresses.

Load Balancer acts as the "traffic cop"

Automatically distributes incoming application traffic across multiple targets, such as Amazon Elastic Compute Cloud(EC2) instances, containers, and Internet Protocol(IP) addresses

### Types of Elastic Load Balancer

ELB offers three types of load balancers: Application Load Balancer, Network Load Balancer, and Classic Load Balancer

First, we have an Application Load Balancer (ALB) that functions at the application level

It supports content-based routing and applications that run in containers

It supports a pair of industry-standard protocols (websocket and http/2) and can provide additional visibility into the health of target instances and containers.

Next, we have Network Load Balancers (NLB) which are designed to handle tens of millions of requests per second while maintaining high throughput at ultra low latency

NLB is ideal for load balancing Transmission Control Protocol (TCP) traffic and is capable of handling millions of requests per second while maintaining ultra-low latencies.

Finally, the Classic Load Balancer (CLB) provides the basic load balancing across multiple Amazon EC2 instances and operates at both request and connection level

This ideal for applications that were built within the Amazon EC2-Classic network.

### ELB Use Cases

There are many reasons to use a load balancer

To secure access to your web servers through a single exposed point of access

To decouple your environment to using both public facing and internal load balancers.

To provide high availability and fault tolerance with the ability to distribute traffic across multiple Availability Zones.

To increase elasticity and scalability with minimal overhead.

### Classic Load Balancer Use Cases

Access servers through single point

Decouple the application environment

Provide high availability and fault tolerance

Increase elasticity and scalability



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Page 1 of 1.

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