**LOAD BALANCING**

1. **What Is Load Balancing?**

* Load balancer act as a Traffic Manager when multiple users request a service
* It distributes the request to different server based on server health,response time , location

1. **Types of Load balancing in AWS**

There Is An Load Balancer In AWS Called **“Elastic Load Balancing”** **(ELB),**

which distributes an traffic ,it is classified into three types

Namely,

* **Application Load Balancer (ALB) –** Manages an traffic based on HTTP/HTTPS Requests , Best for Web applications
* **Network Load Balancer (NLB) –** Handles millions of requests per second with ultra low latency , Best for High performance networking
* **Classic Load Balancer (CLB ) –** Older one , used as Basic load balance in EC2 instance

1. **Benefits of Load Balancing?**

* Prevents from server crash
* Makes smoother user experience
* Improves the response time
* High Availability

**Example – IRCTC Train Ticket Booking**

When thousands of users try to book tickets at the same time (especially during peak hours), a load balancer distributes requests across multiple servers.