

MODULE 10: Automatic Scaling and Monitoring

1. Elastic Load Balancing (ELB)
 2. Cloudwatch
 3. Auto Scaling
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1. Elastic Load Balancing

- It distributes incoming application or network traffic across multiple targets in single availability zones or across multiple availability zones.
- It scales your load balancer as traffic to your application changes overtime.

Types of ELB

- a. Application load balancer
- b. Network load balancer
- c. Classic load balancer

Use cases

- High availability and fault tolerant application
- Containerised application
- Elasticity and scalability
- VPC
- Hybrid environments
- Invoke lambda over http/https

AWS monitoring

- Access logs
- CloudWatch metrics
- CloudTrail logs

2. Cloudwatch

- Monitor
- Collect and tracks
- Alarms, event
- **It create alarm based on:** static threshold, anomaly detection, metric maths expression

3. Auto Scaling

- Helps to maintain application availability.
- Auto scaling group is a collection of EC2 instances that are treated as a logical grouping for the purpose of automated scaling and management.
- **Scale out:** launch instance.
- **Scale in:** terminate instance.
- It monitors your application and automatically adjusts capacity to maintain steady predictable performance at the lower possible cost.