

Auto Scaling Group (ASG)

An **Auto Scaling Group (ASG)** in AWS automatically launches or terminates EC2 instances based on demand, ensuring **high availability** and **cost efficiency**.

It uses a **Launch Template** or **Launch Configuration** to create instances and applies **Scaling Policies** to adjust capacity.

Key Features:

- **Automatic Scaling** → Adds or removes instances based on traffic.
- **Health Checks** → Replaces unhealthy instances.
- **Load Balancer Integration** → Works with ELB for traffic distribution.
- **Scheduled & Dynamic Scaling** → Scale based on time or CloudWatch metrics.

Hands-On: Create an Auto Scaling Group