



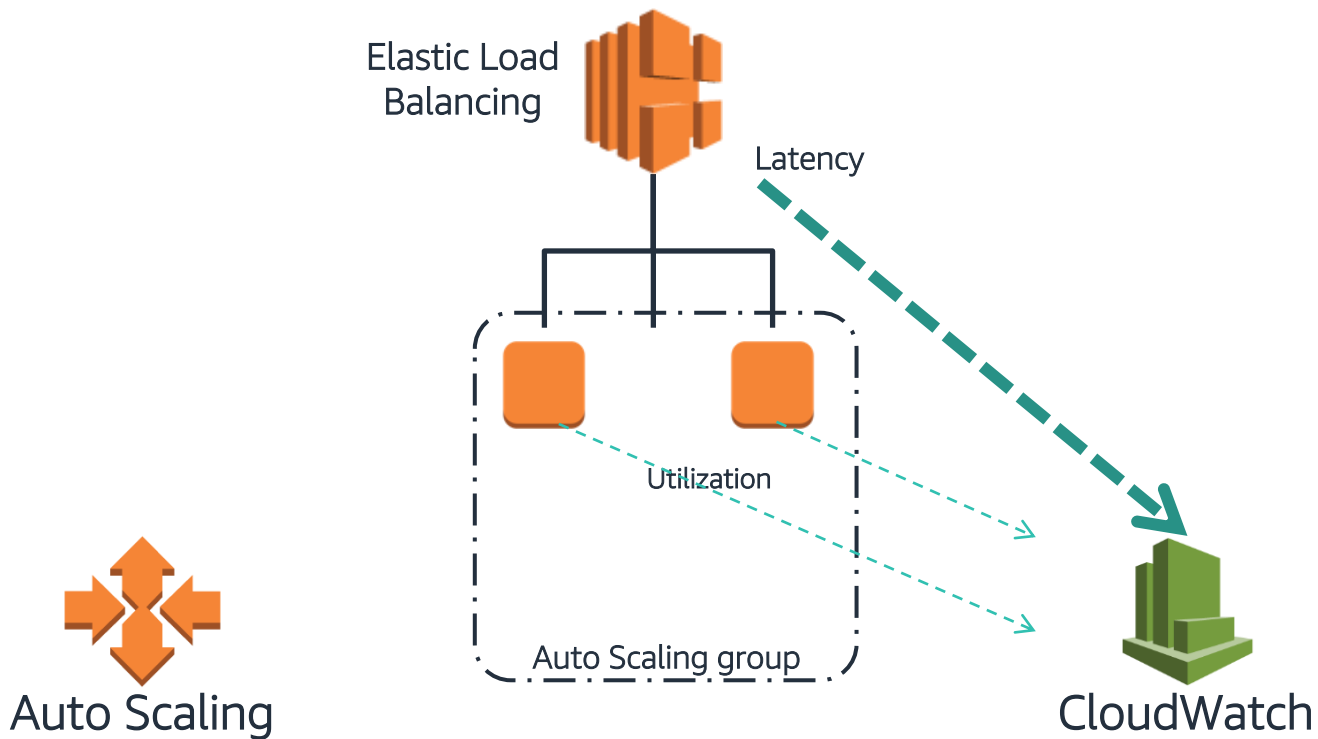
AWSOME DAY

ONLINE CONFERENCE

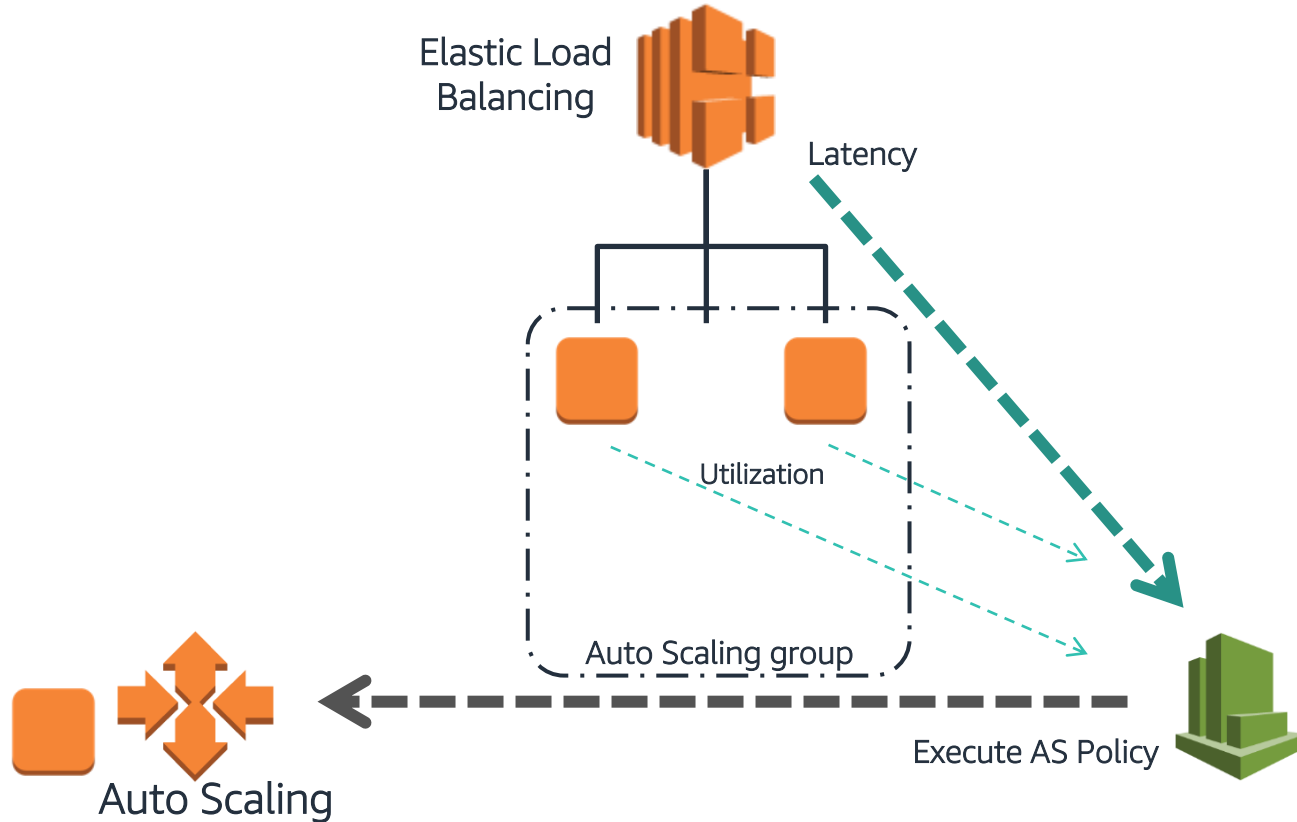


Module 5 AWS Elasticity and Management Tools

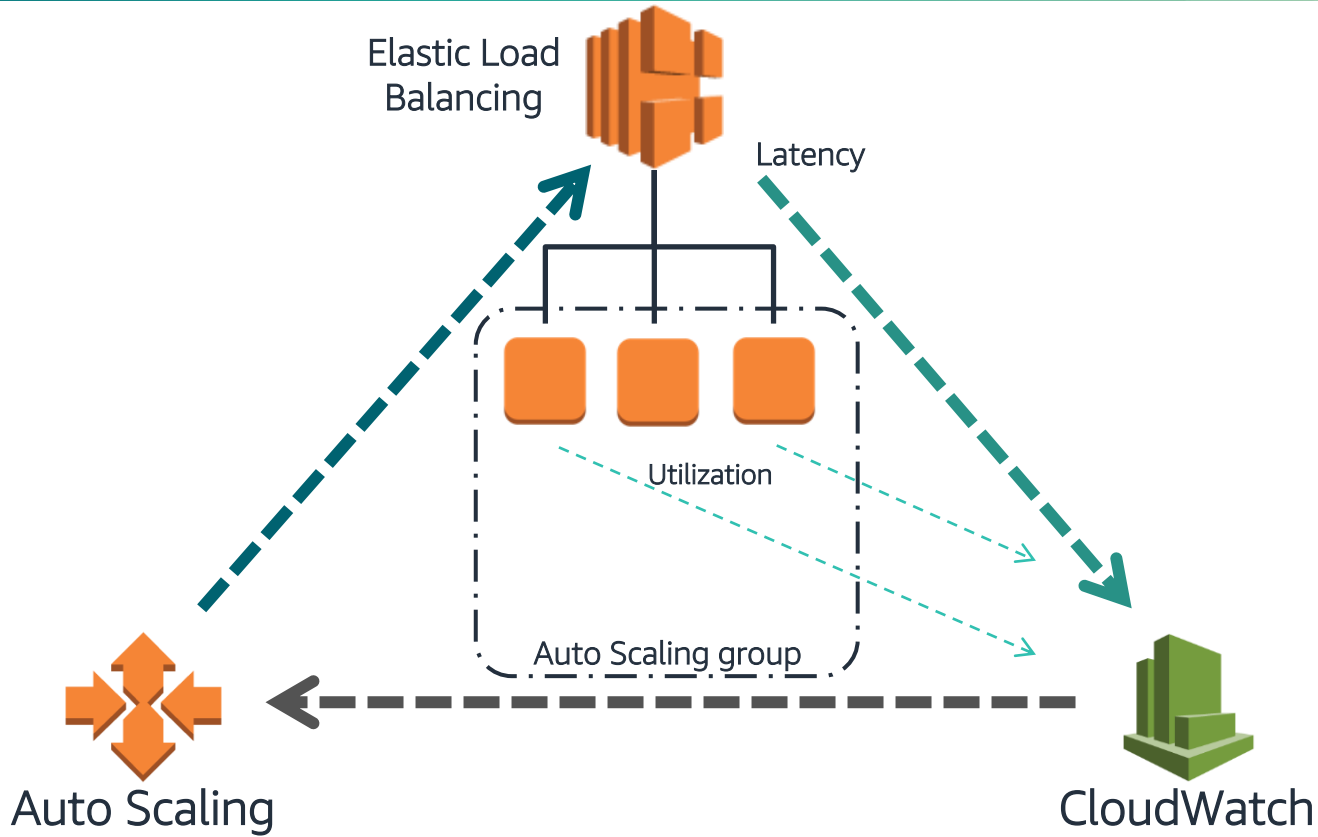
Triad of Services



Triad of Services



Triad of Services



Elastic Load Balancing

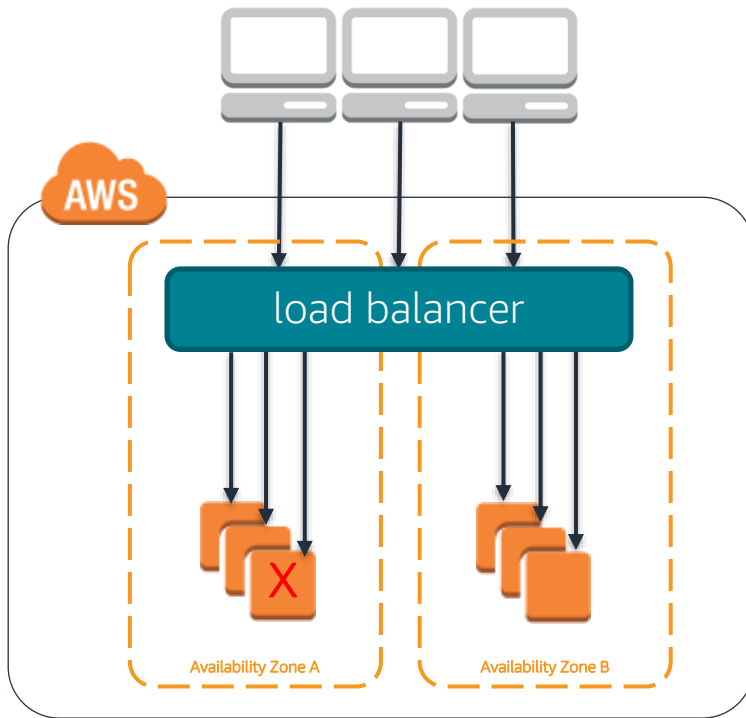


Elastic Load
Balancing

- **Distributes** traffic across multiple EC2 instances, in multiple Availability Zones
- Supports **health checks** to detect unhealthy Amazon EC2 instances
- Supports the **routing and load balancing** of HTTP, HTTPS, SSL, and TCP traffic to Amazon EC2 instances

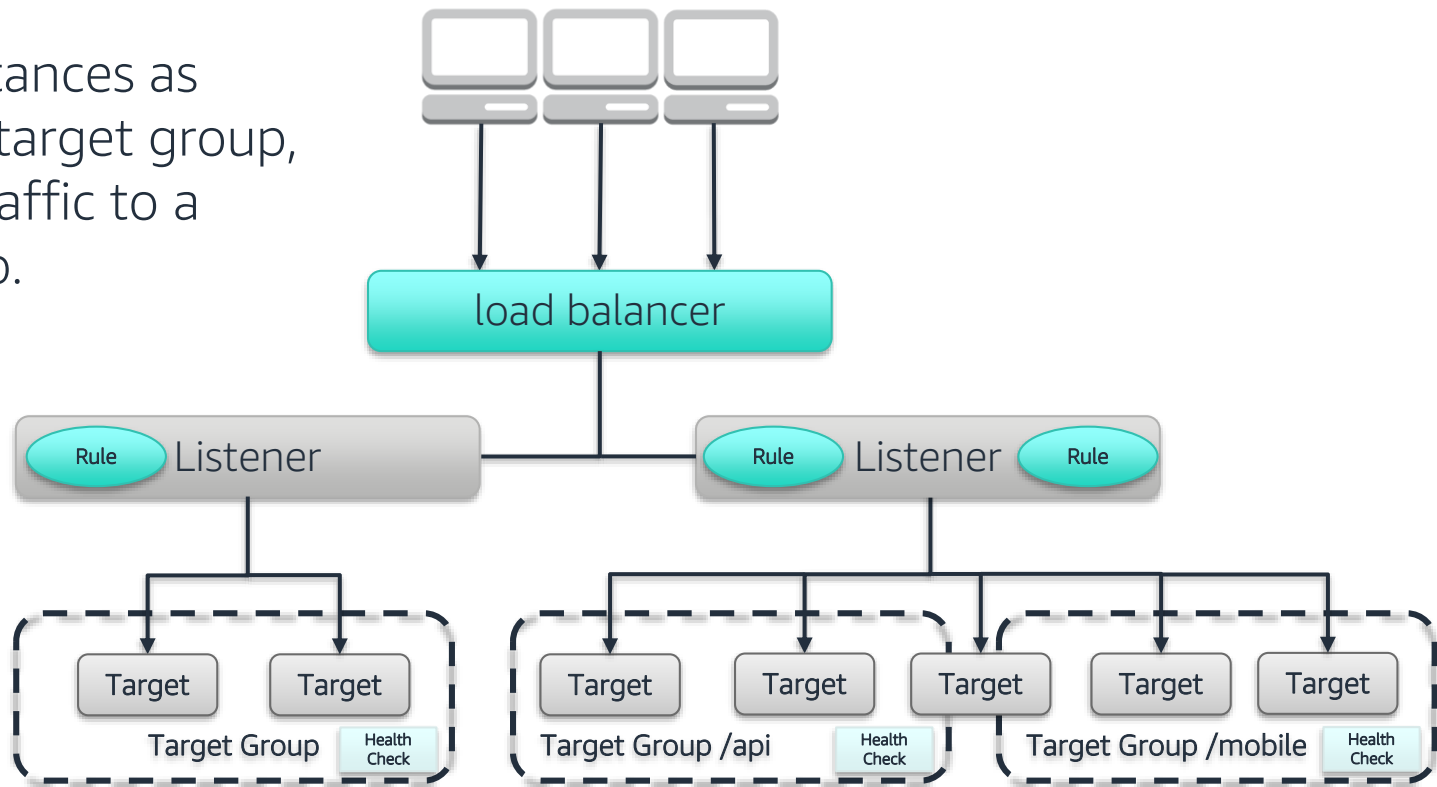
Classic Load Balancer – How It Works

Register instances with your load balancer.



Application Load Balance – How It Works

Register instances as targets in a target group, and route traffic to a target group.



Amazon CloudWatch

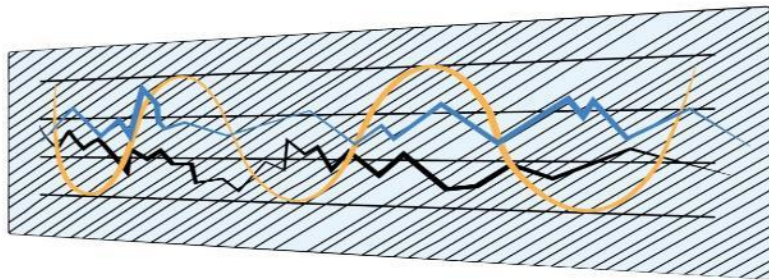
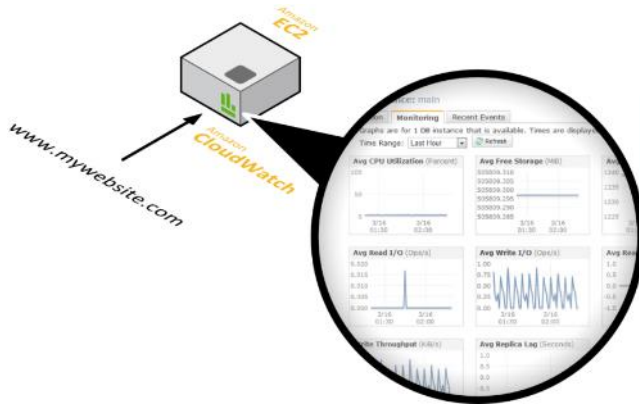


Amazon
CloudWatch

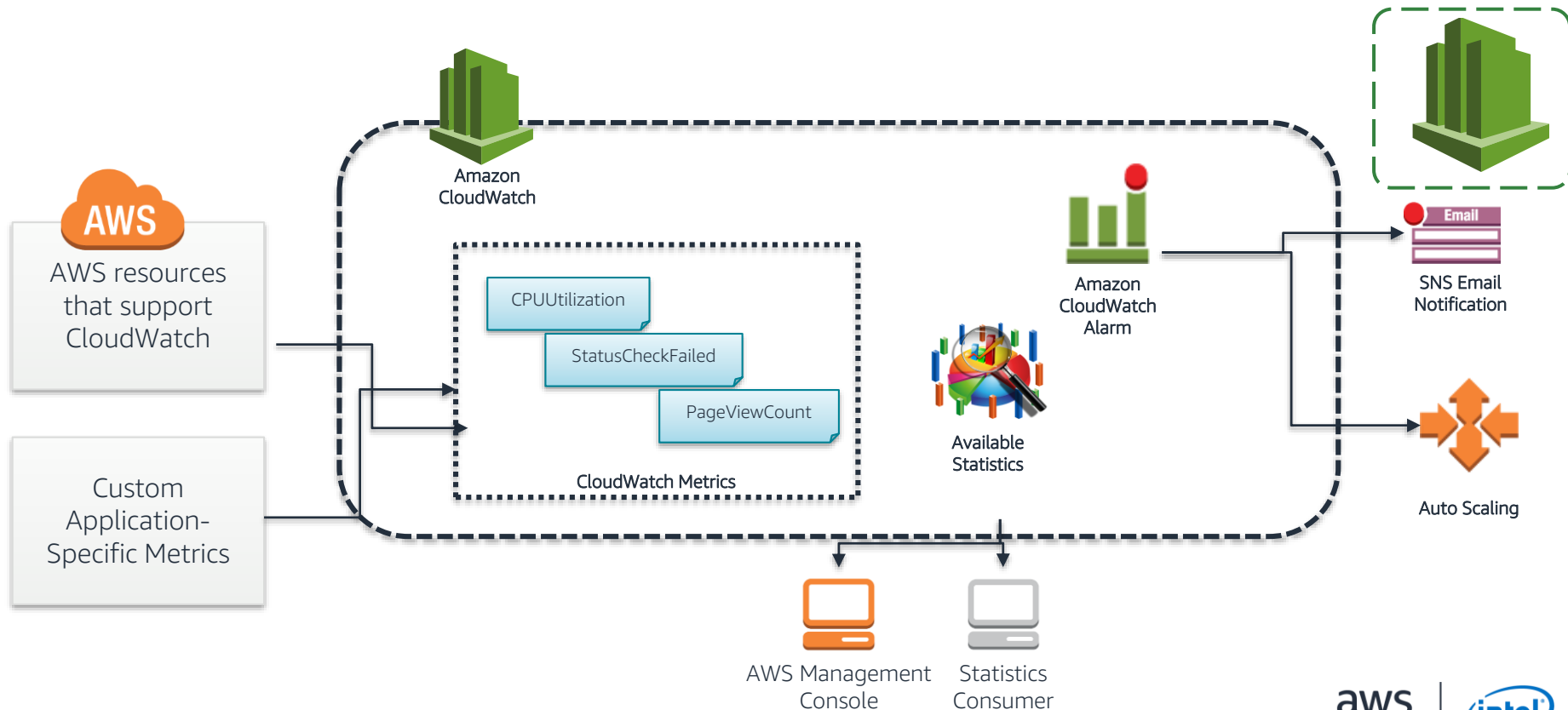
- A **monitoring service** for AWS cloud resources and the applications you run on AWS
- **Visibility into** resource utilization, operational performance, and overall demand patterns
- **Custom application-specific** metrics of your own
- **Accessible** via AWS Management Console, APIs, SDK, or CLI

Amazon CloudWatch Facts

- Monitor other AWS resources
 - View graphics and statistics
- Set Alarms



Amazon CloudWatch Architecture



Auto Scaling

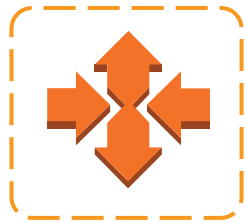


Auto
Scaling

- Scale your Amazon EC2 capacity **automatically**
- Well-suited for applications that experience **variability in usage**
- Available at no additional charge

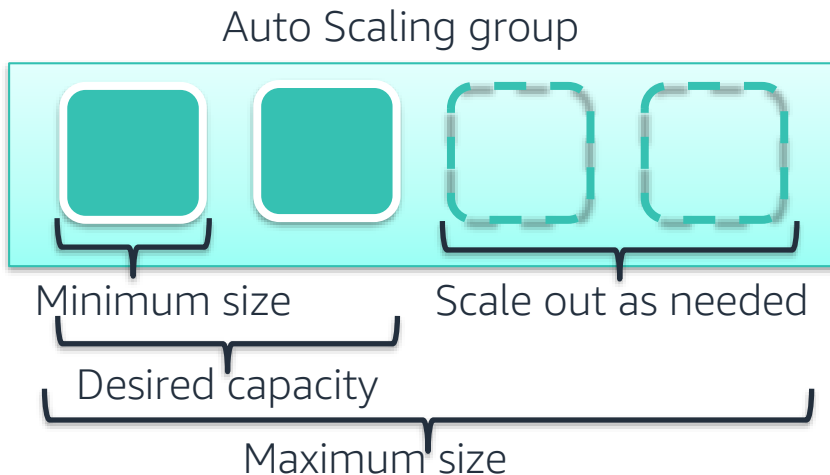
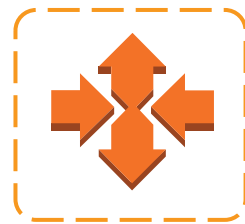
Launch Configurations

- A **launch configuration** is a template that an Auto Scaling group uses to launch EC2 instances.
- When you create a launch configuration, you can specify:
 - AMI ID
 - Instance type
 - Key pair
 - Security groups
 - Block device mapping
 - User data

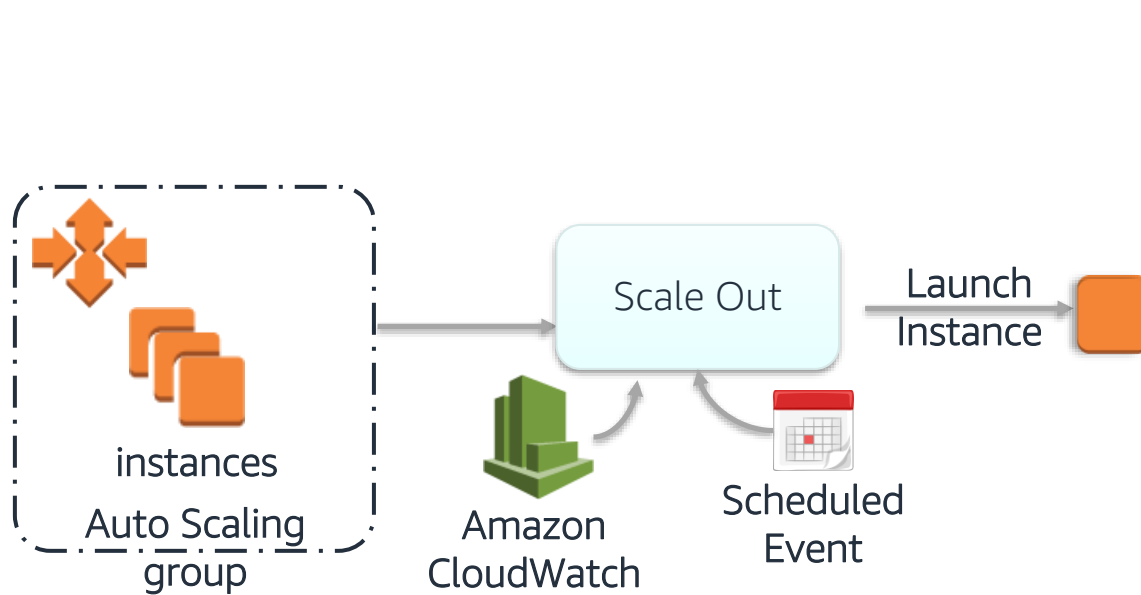


Auto Scaling Groups

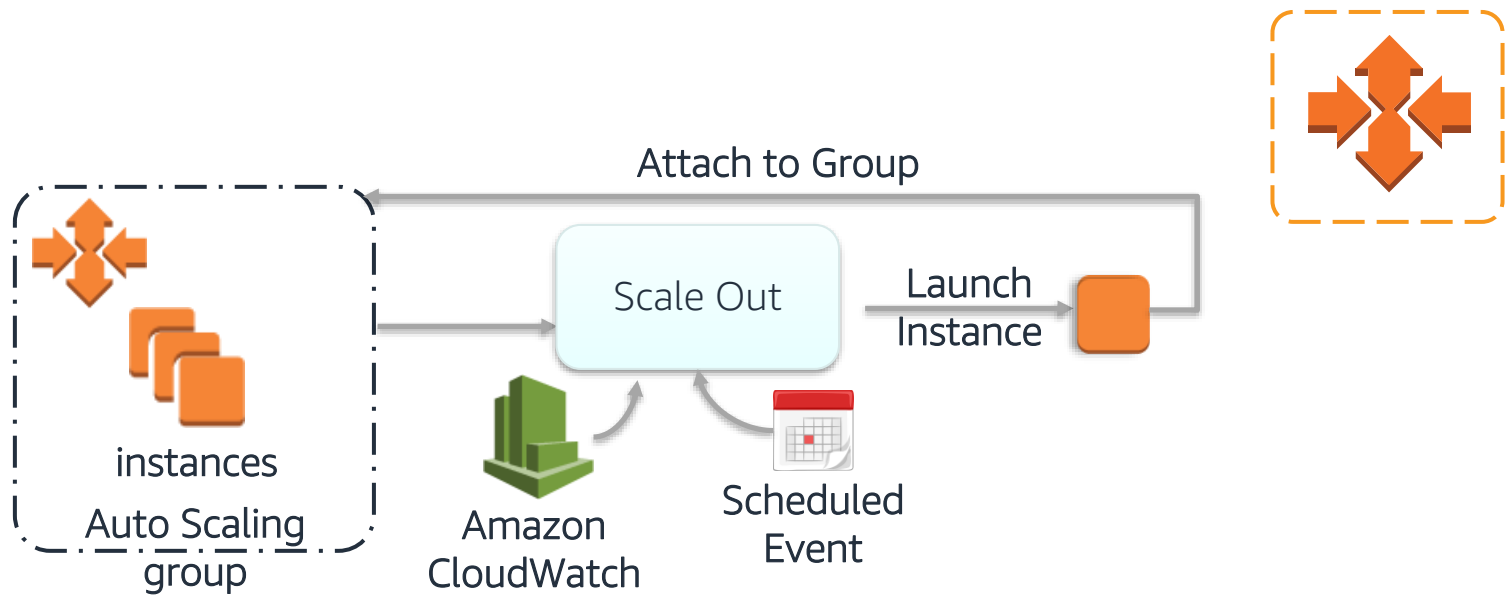
- Contain a collection of EC2 instances that share similar characteristics.
- Instances in an Auto Scaling group are treated as a **logical grouping** for the purpose of instance scaling and management.



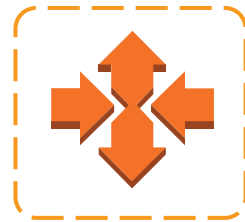
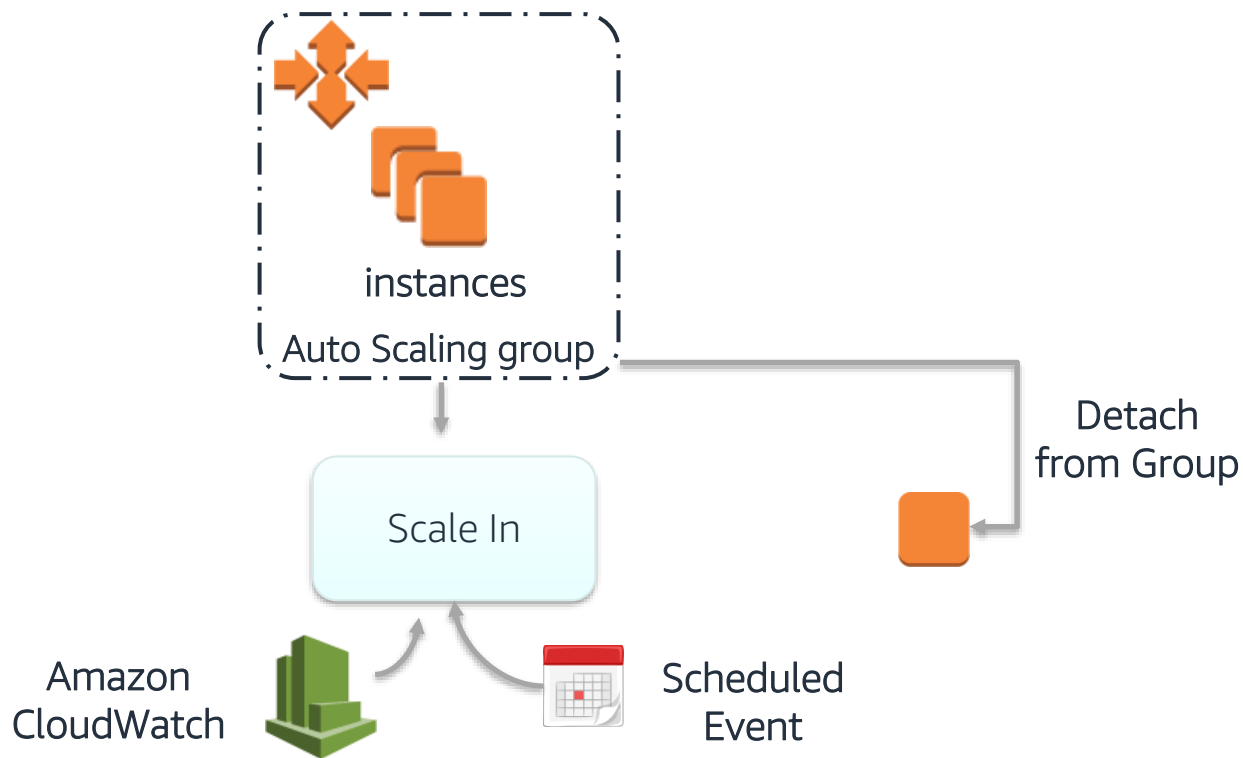
Auto Scaling Basic Lifecycle



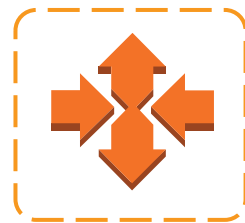
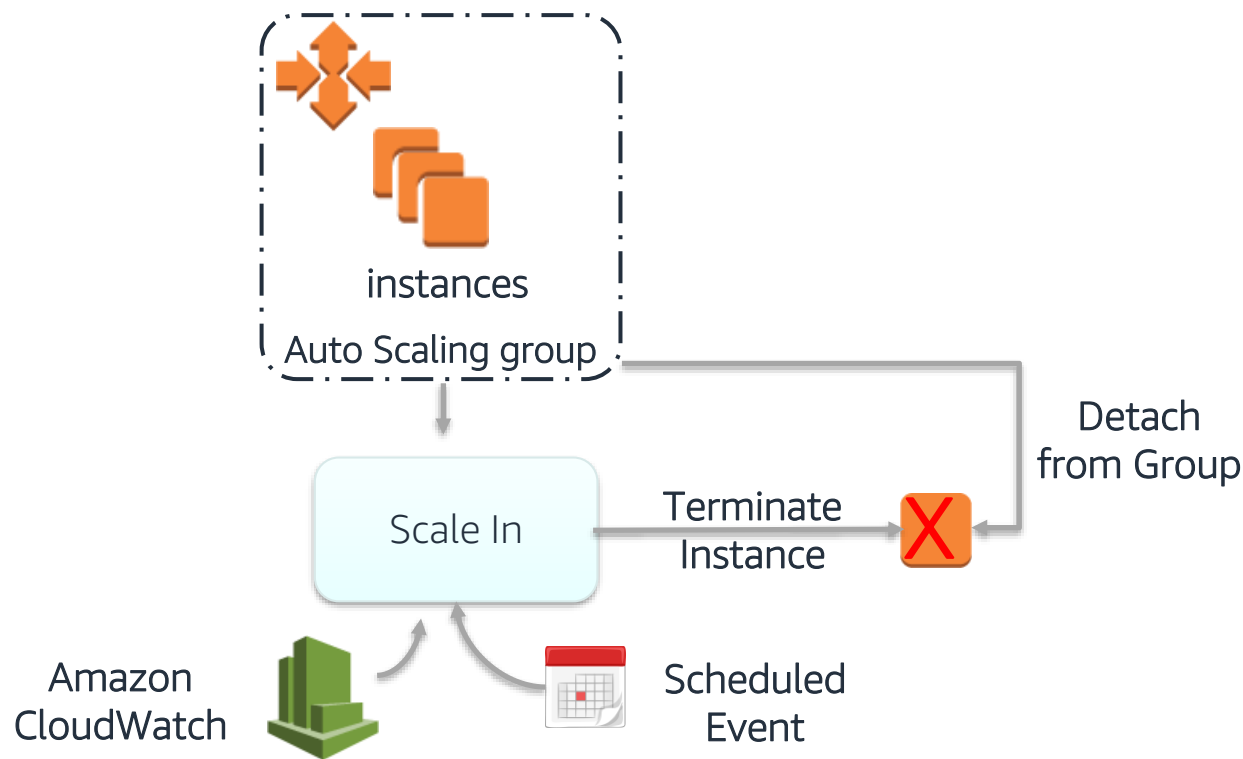
Auto Scaling Basic Lifecycle



Auto Scaling Basic Lifecycle

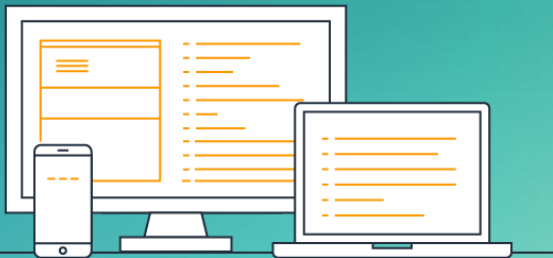


Auto Scaling Basic Lifecycle



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