



EC2 Auto Scaling





Today's Takeaways

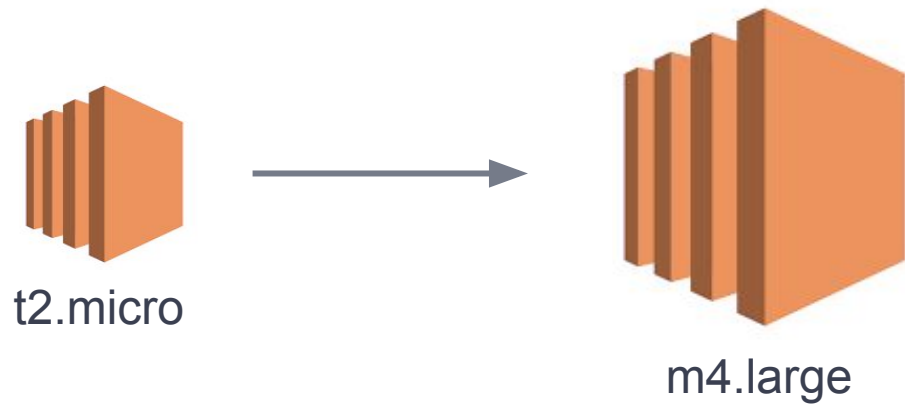
- ▶ Part 1: Anatomy of Auto Scaling
- ▶ Part 2: Hands on



Auto Scaling

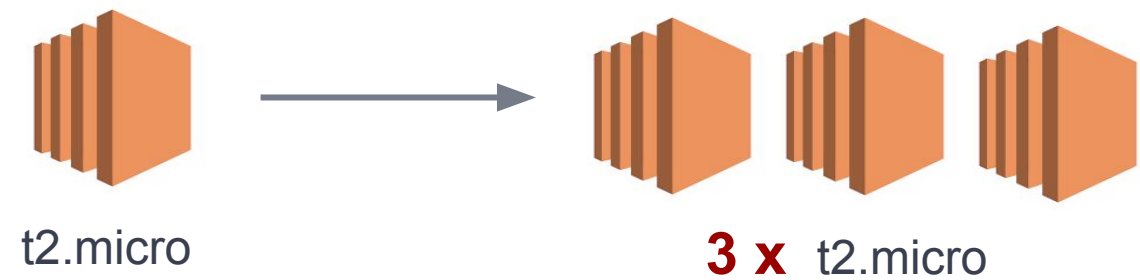
What is Scaling?

Vertical Scaling



Scale Up / Down

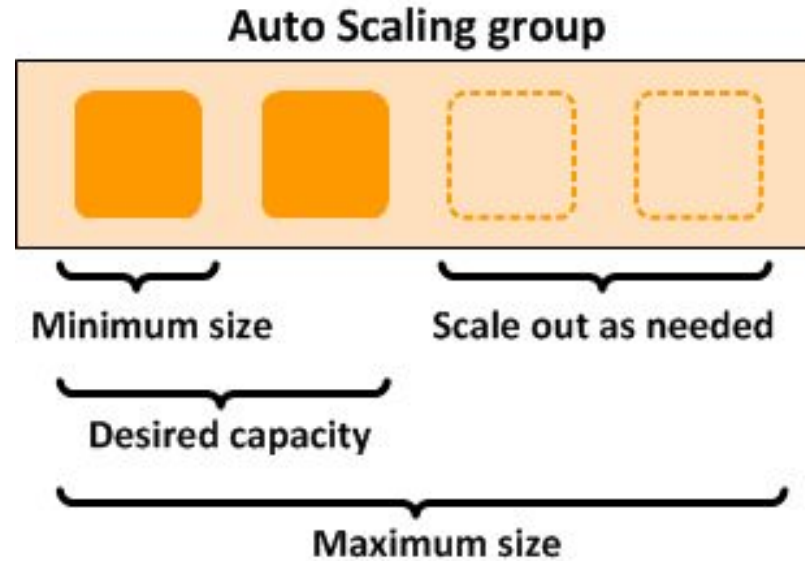
Horizontal Scaling



Scale Out / In

Auto Scaling

What is Auto Scaling?



- Amazon EC2 Auto Scaling is a component that helps you ensure that you have the **correct number of Amazon EC2 instances** available to **handle the load** for your application.
- Auto Scaling **adds or removes instances** to keep your system steady state.
- You can **automate the increasing or decreasing** of virtual machines depending on your policy.

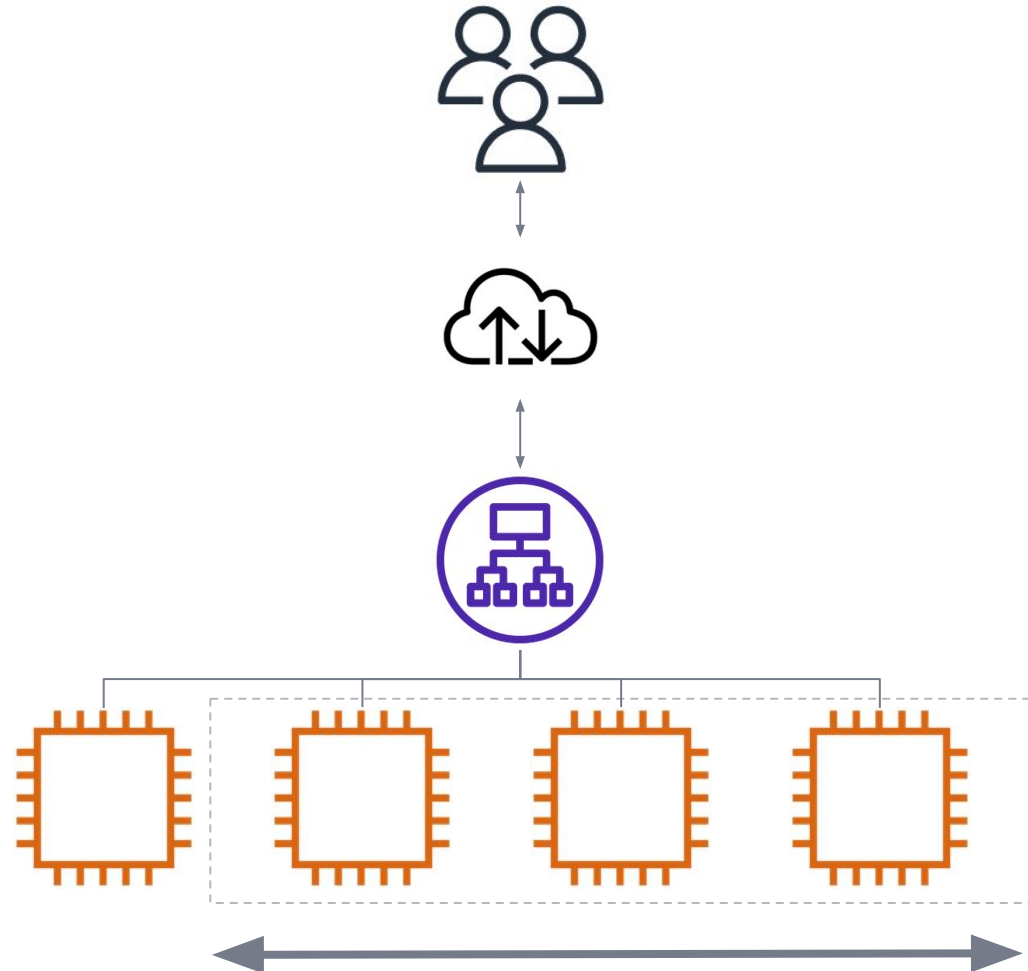
Auto Scaling



- A **load balancer** distributes traffic between instances

AWS Auto Scaling:

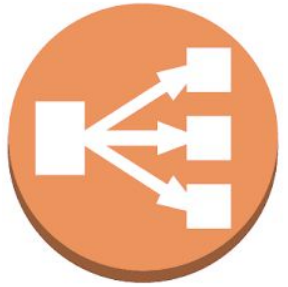
- allows you to **automatically increase or decrease** the number of instances behind the load balancer
- **monitors the health** of instances and **replaces impaired instances**
- provides an **efficient & cost-effective** way to meet **capacity requirements**



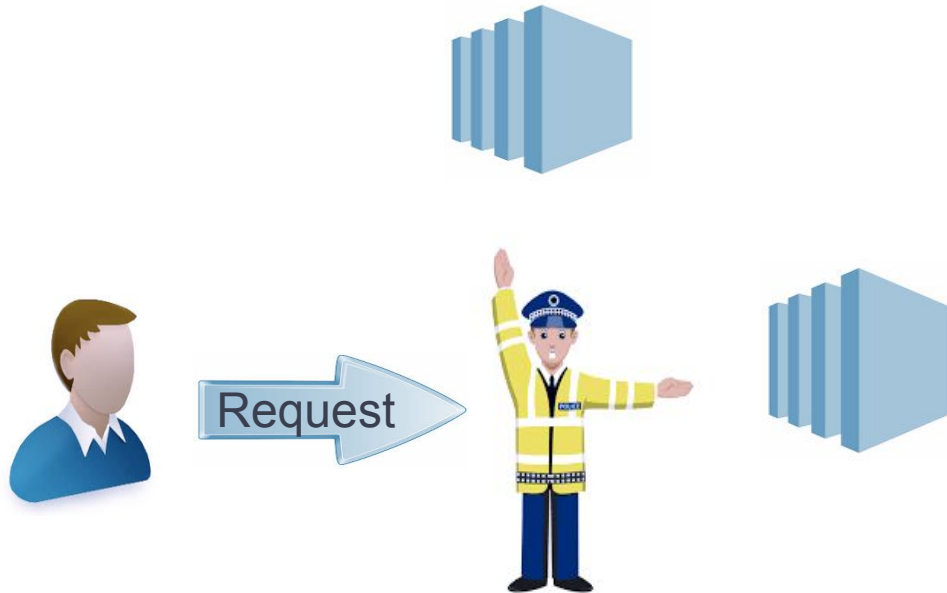
Scale Out (add) or **Scale In** (remove)
to meet capacity needs

Auto Scaling

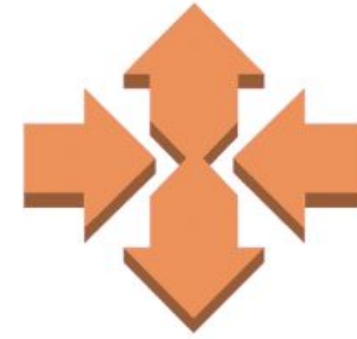
Auto Scaling vs Load Balancer



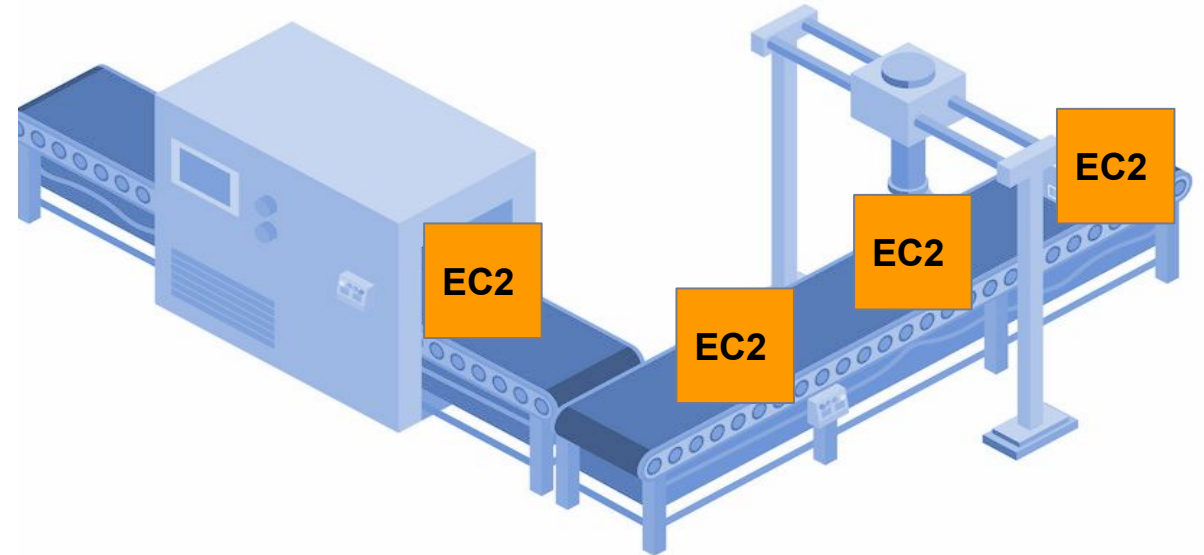
Load Balancer



Distributing the traffic across
the **existing** instances



Auto Scaling



- **Launch** new instances
- **Terminate** the existing instances

Auto Scaling

Features of Auto Scaling

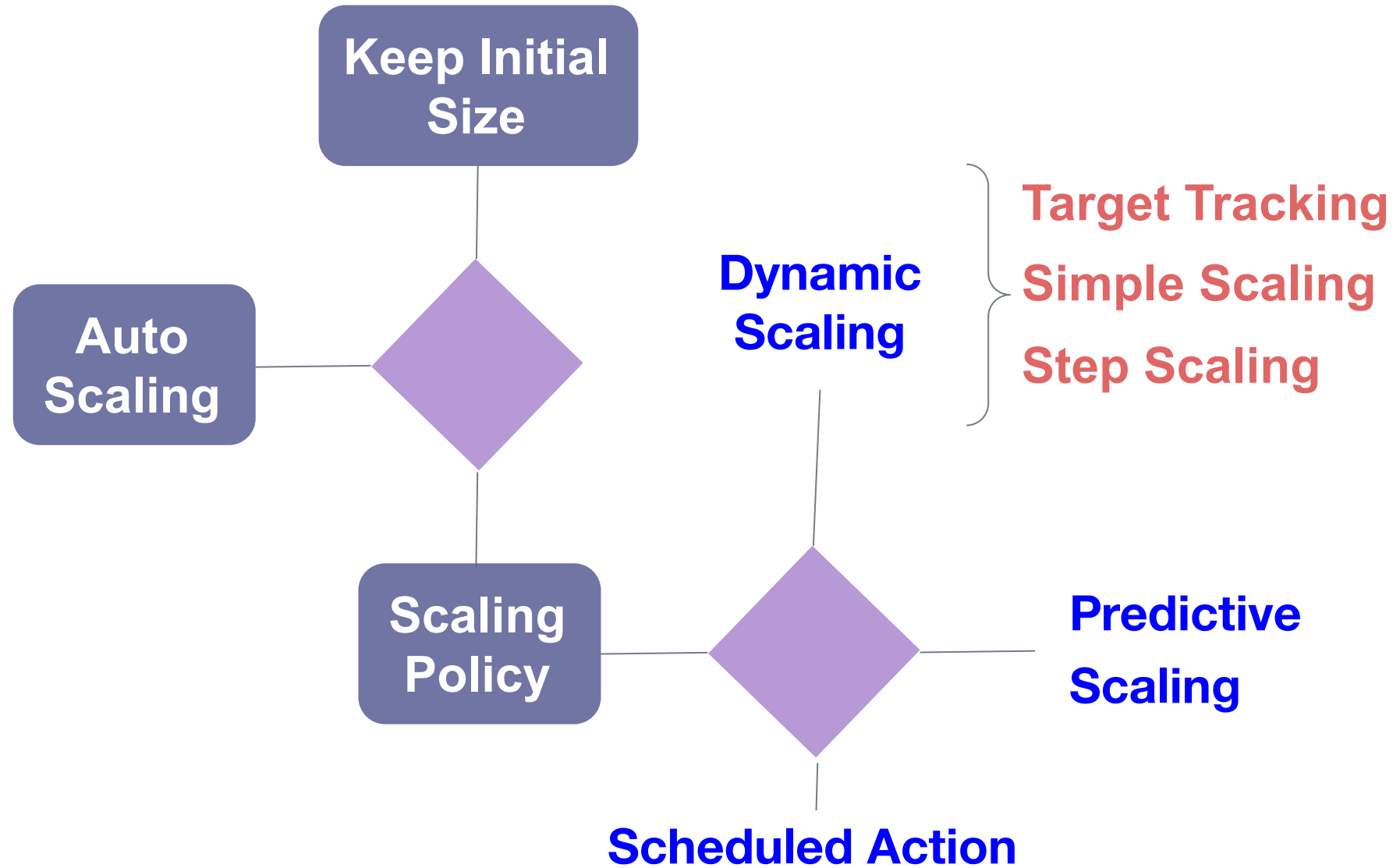


- Auto Scaling Policy
- Launch Templates (or previously Launch Configuration)
- Fault Tolerance
- High Availability
- Compatible with Elastic Load Balancer
- Better Cost Management.



Auto Scaling

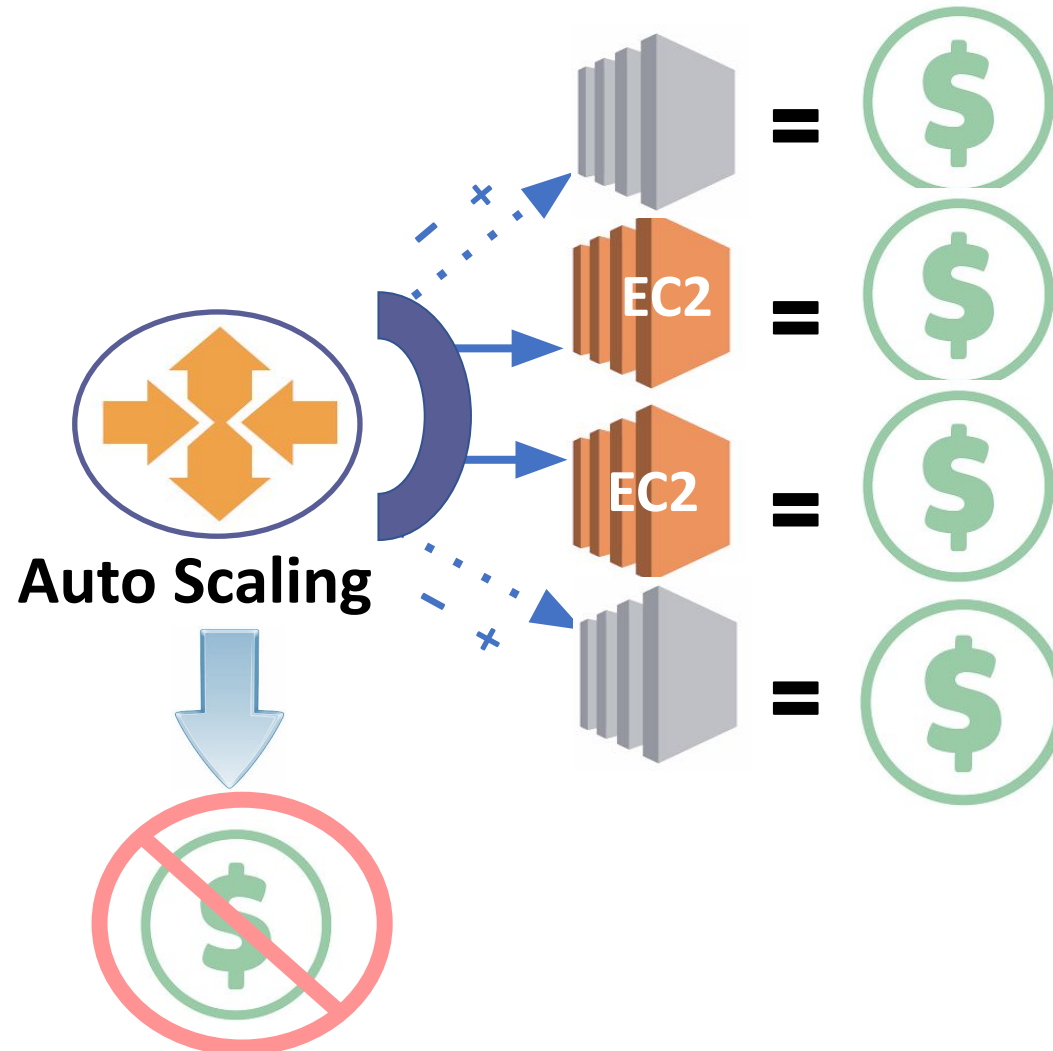
Auto Scaling Options





Auto Scaling

Pricing for Amazon EC2 Auto Scaling





Lifecycle Auto Scaling

Let's get our hands dirty!

- Creating an Auto Scaling Group



THANKS!

Any questions?



