



ondia



# EC2 Auto Scaling

# AGENDA



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

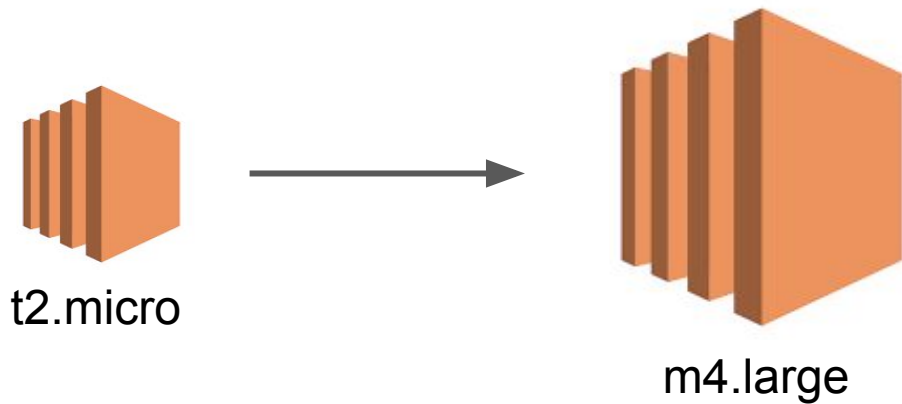


# Part 1: Anatomy of Auto Scaling

# Auto Scaling

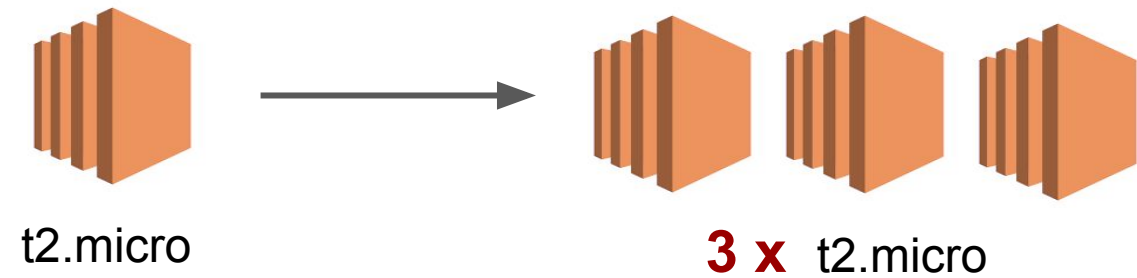
## What is Scaling?

### Vertical Scaling



Scale Up / Down

### Horizontal Scaling

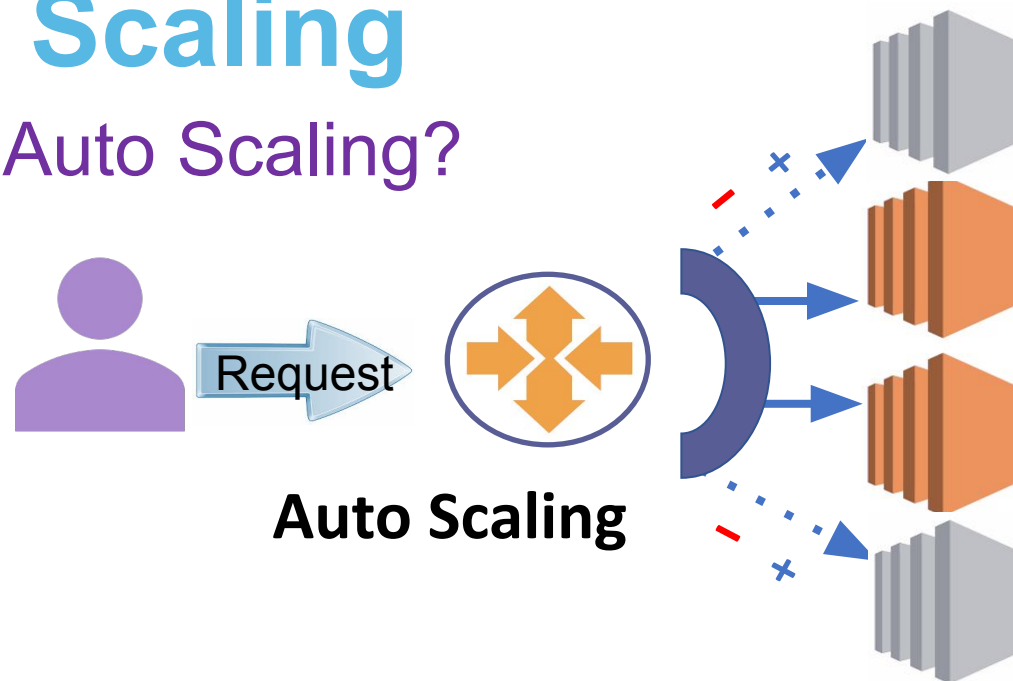


Scale Out / In



# Auto Scaling

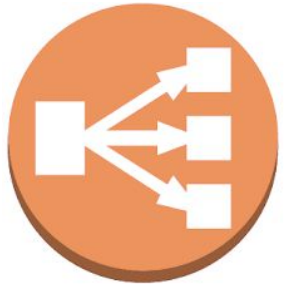
## What is Auto Scaling?



- 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

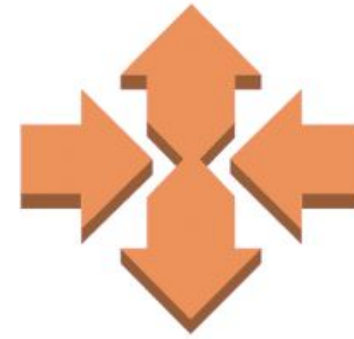
## Auto Scaling vs Load Balancer



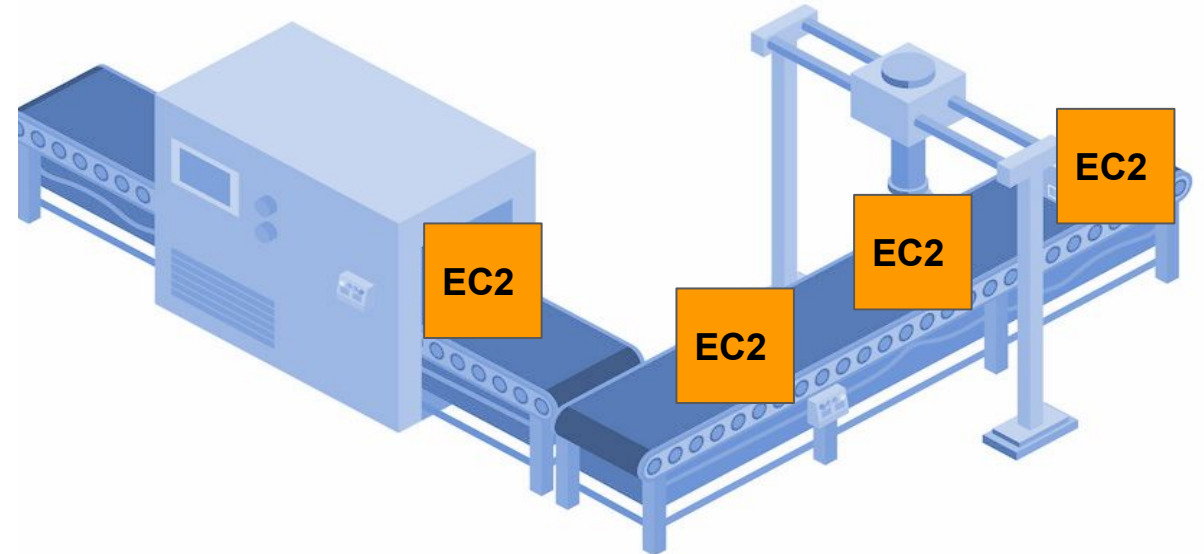
Load Balancer



Distributing the traffic across  
the **existing** instances



Auto Scaling



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

# Auto Scaling

## Features of Auto Scaling



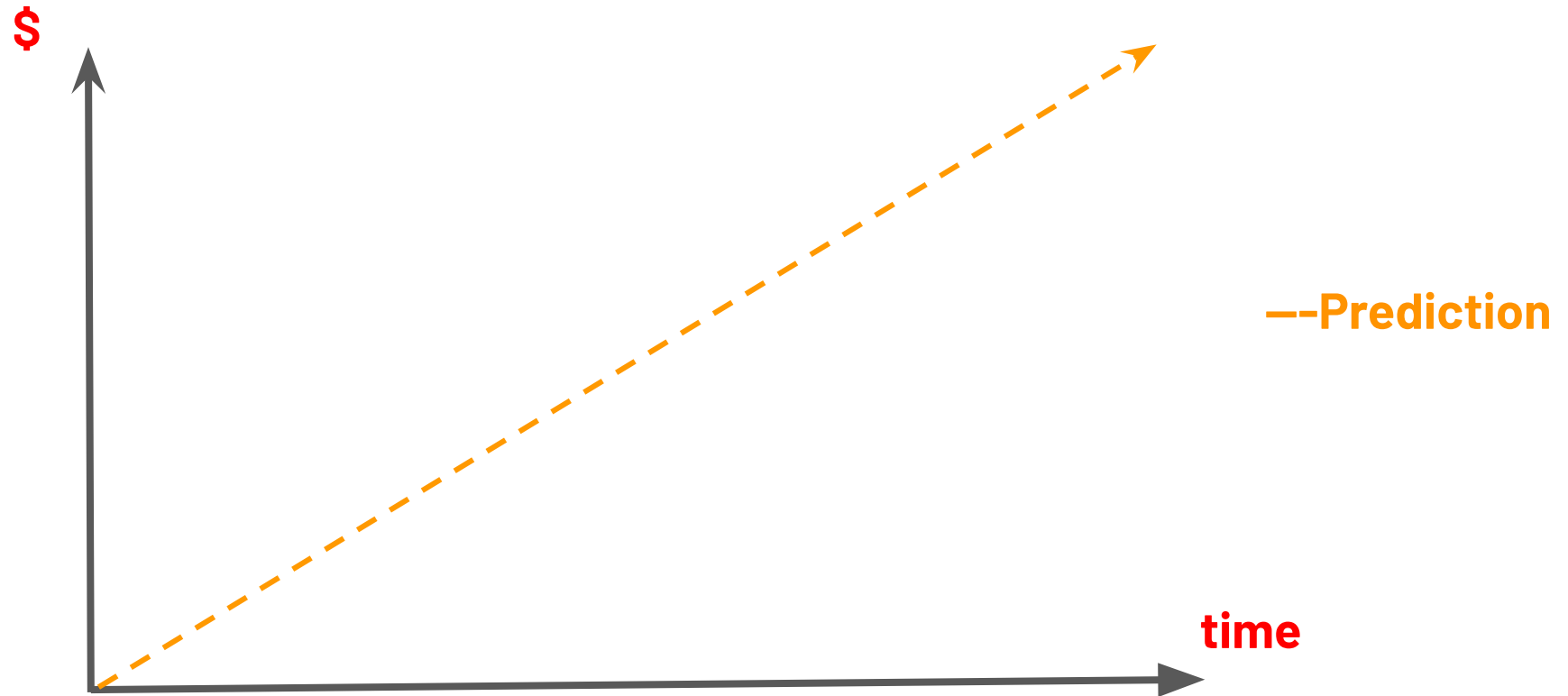
- Auto Scaling Policy
- Launch Configurations or Launch Templates.
- Fault tolerance.
- Compatible with Elastic Load Balancer
- Better Cost Management.

Rules
Conditions
_____
_____
_____



# Auto Scaling

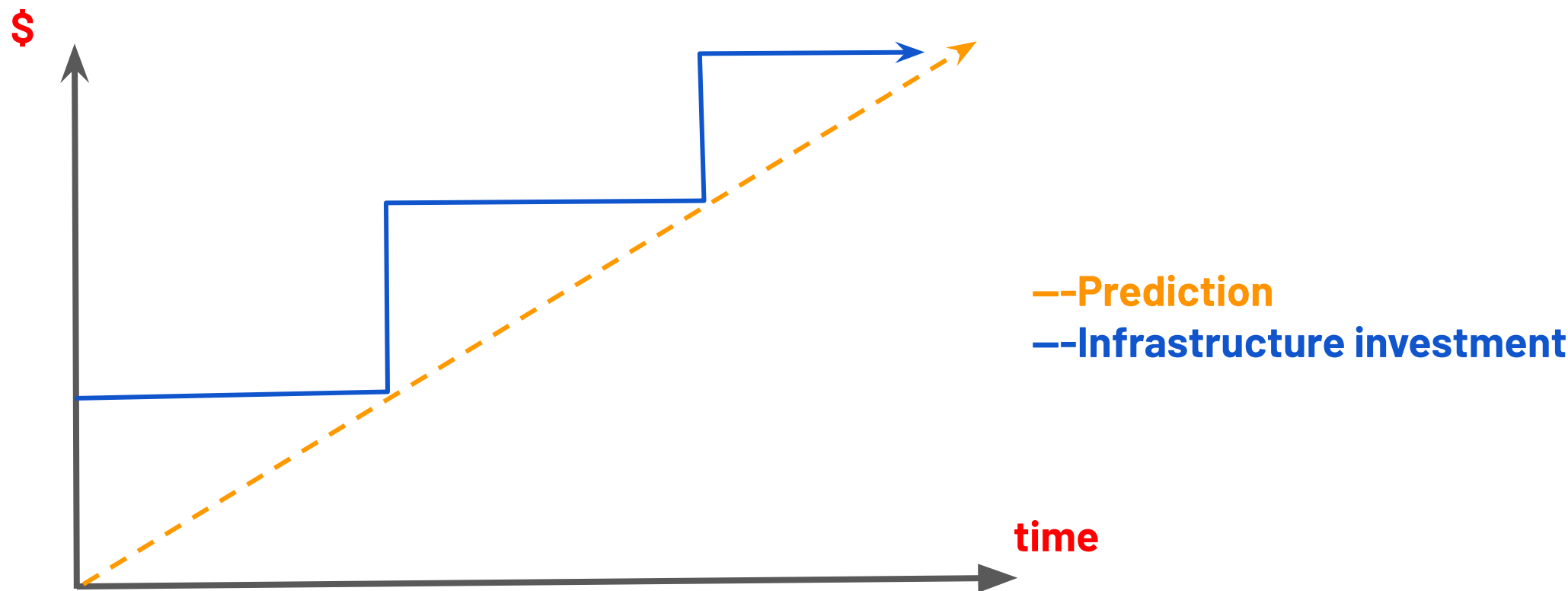
## Better Cost Management





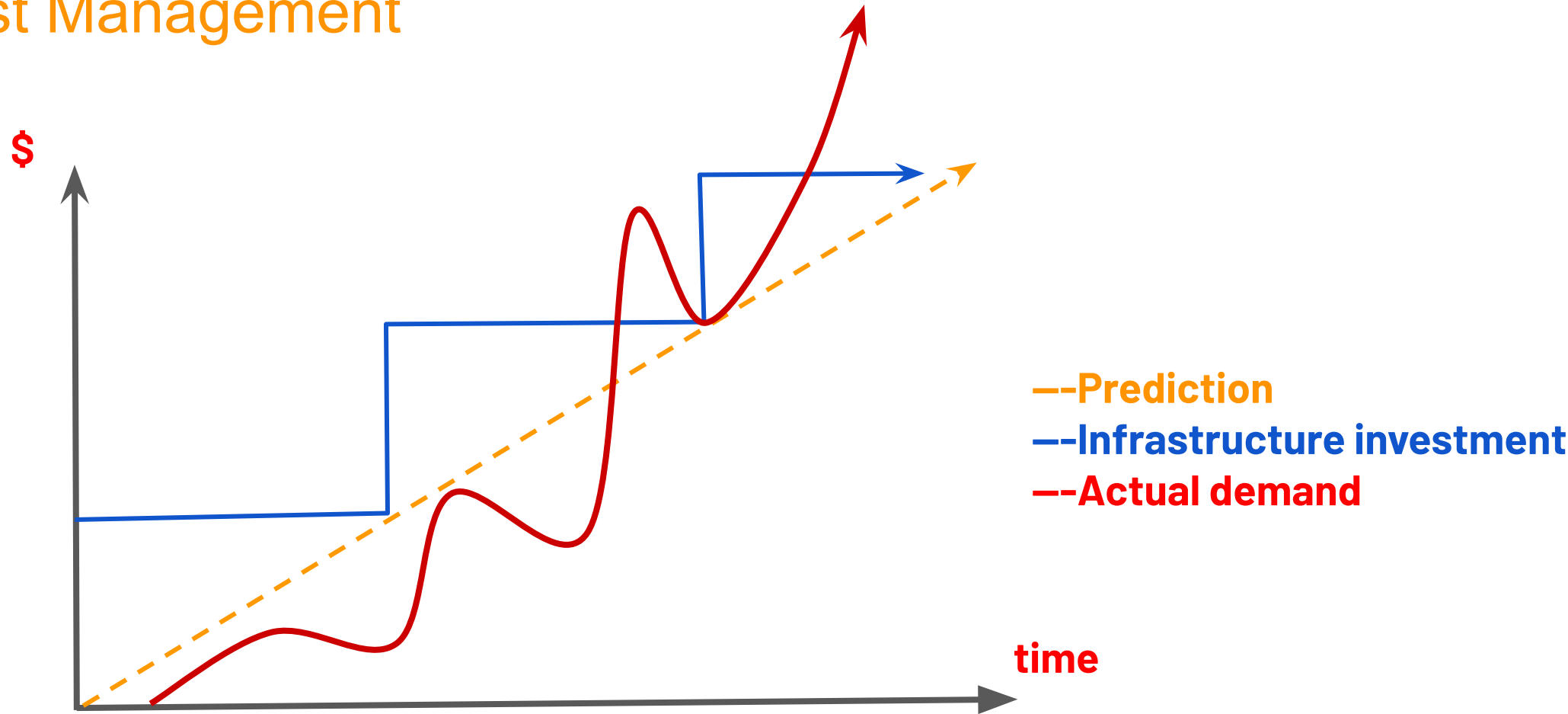
# Auto Scaling

Better Cost Management



# Auto Scaling

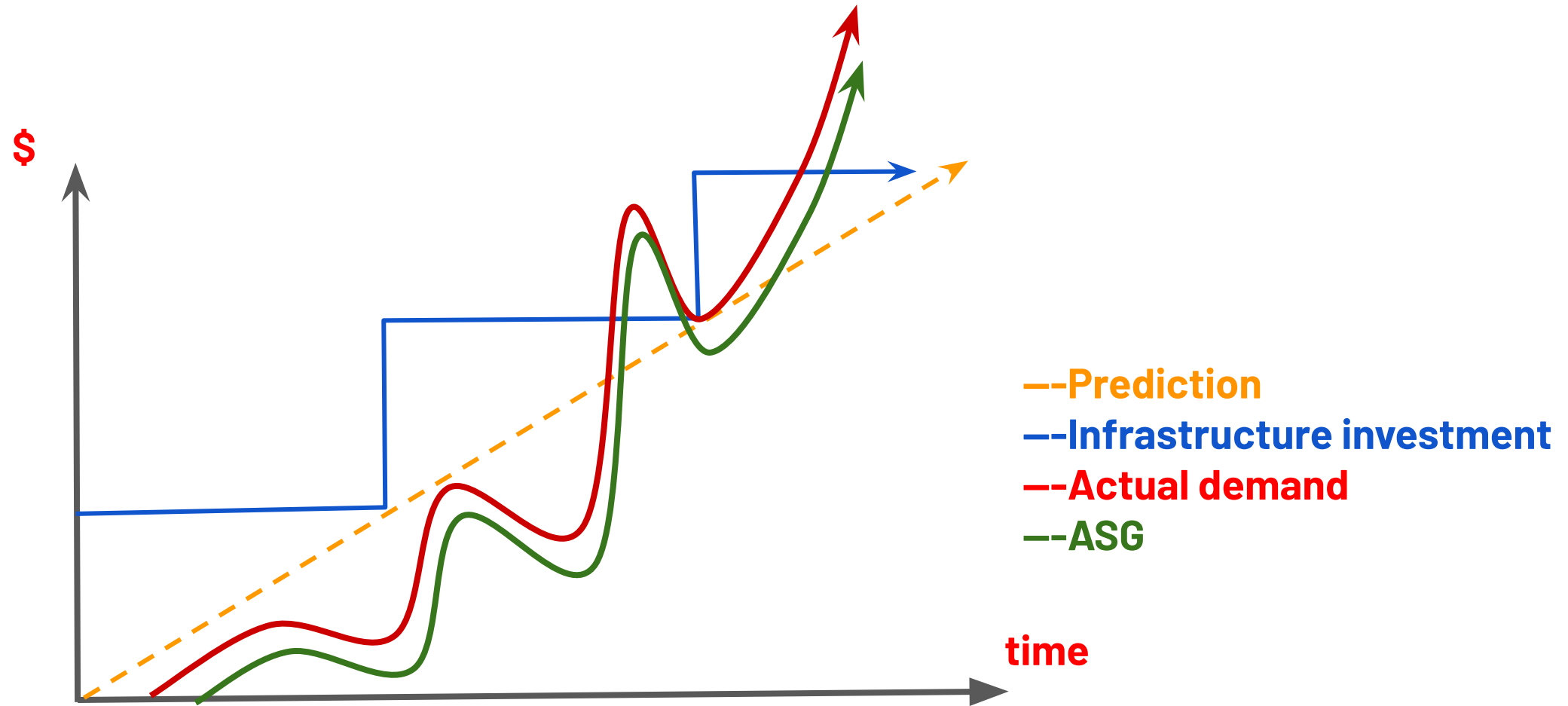
## Better Cost Management





# Auto Scaling

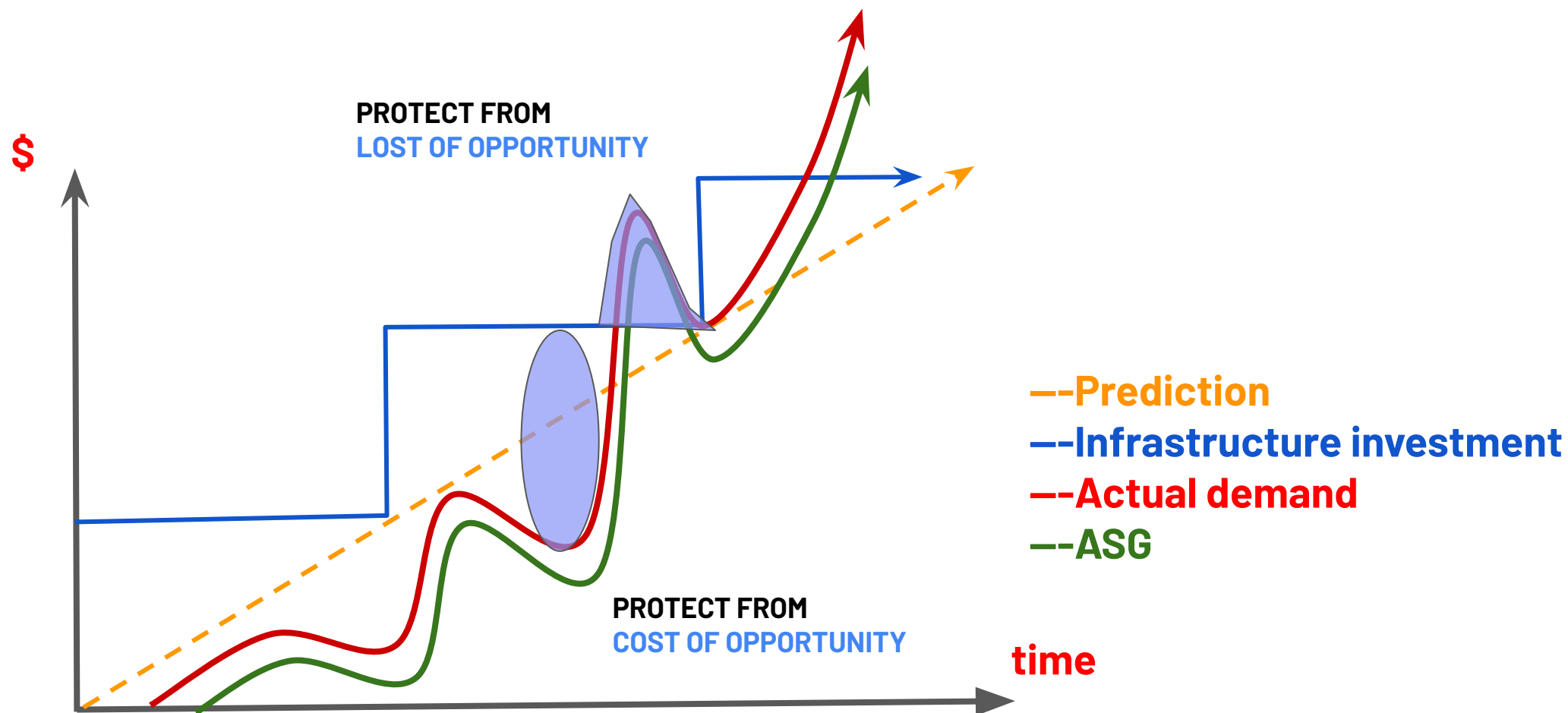
## Better Cost Management





# Auto Scaling

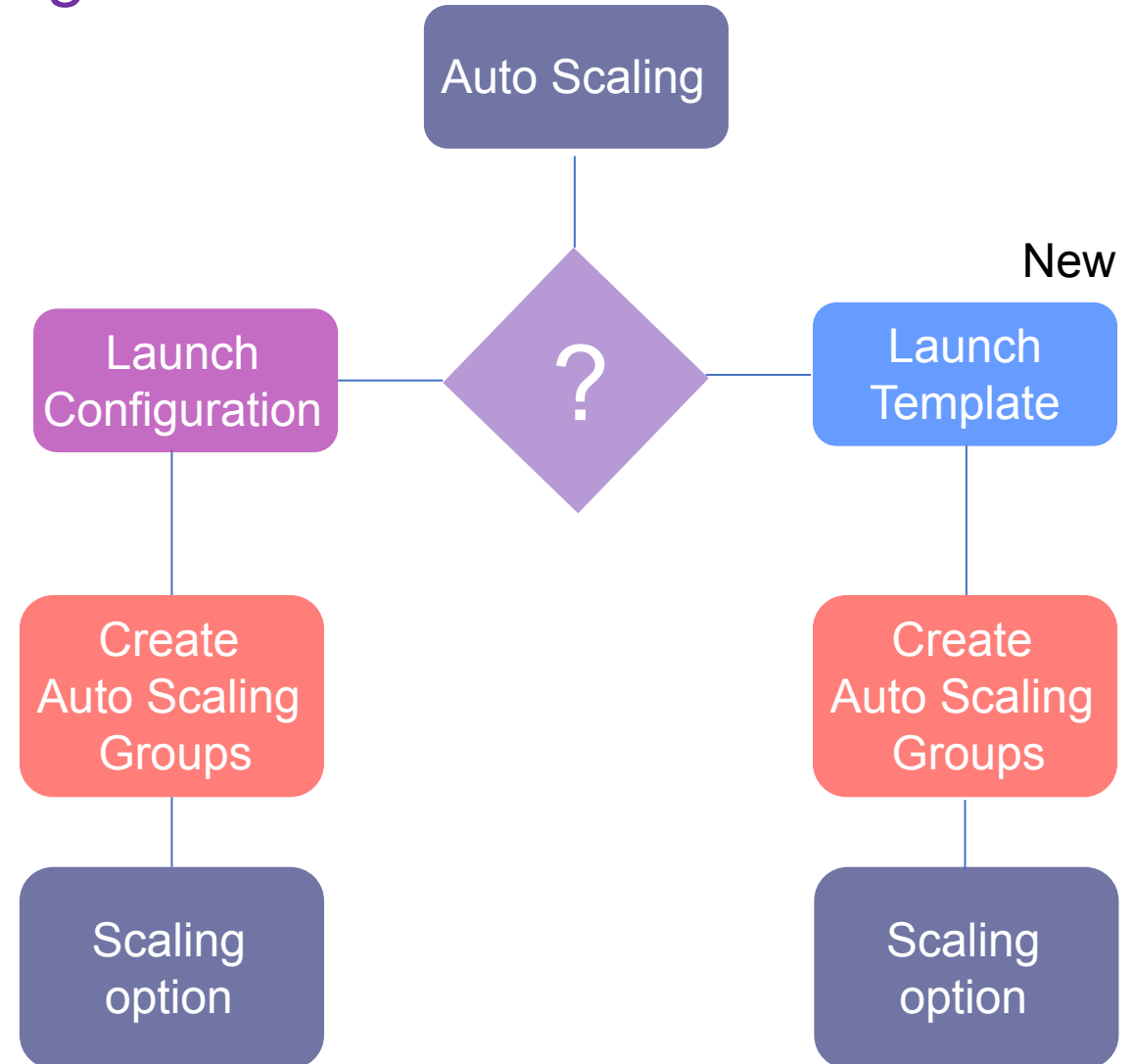
## Better Cost Management



# Auto Scaling

## Auto Scaling Creating Process

- First, you need to select either the [Launch Template](#) or the [Launch Configuration](#) option and create it.
- Then, create an [Auto Scaling Group](#).
- Finally, Finish Creating Auto Scaling





# Auto Scaling

## Launch Configuration Deprecation Schedule

The announcement from AWS

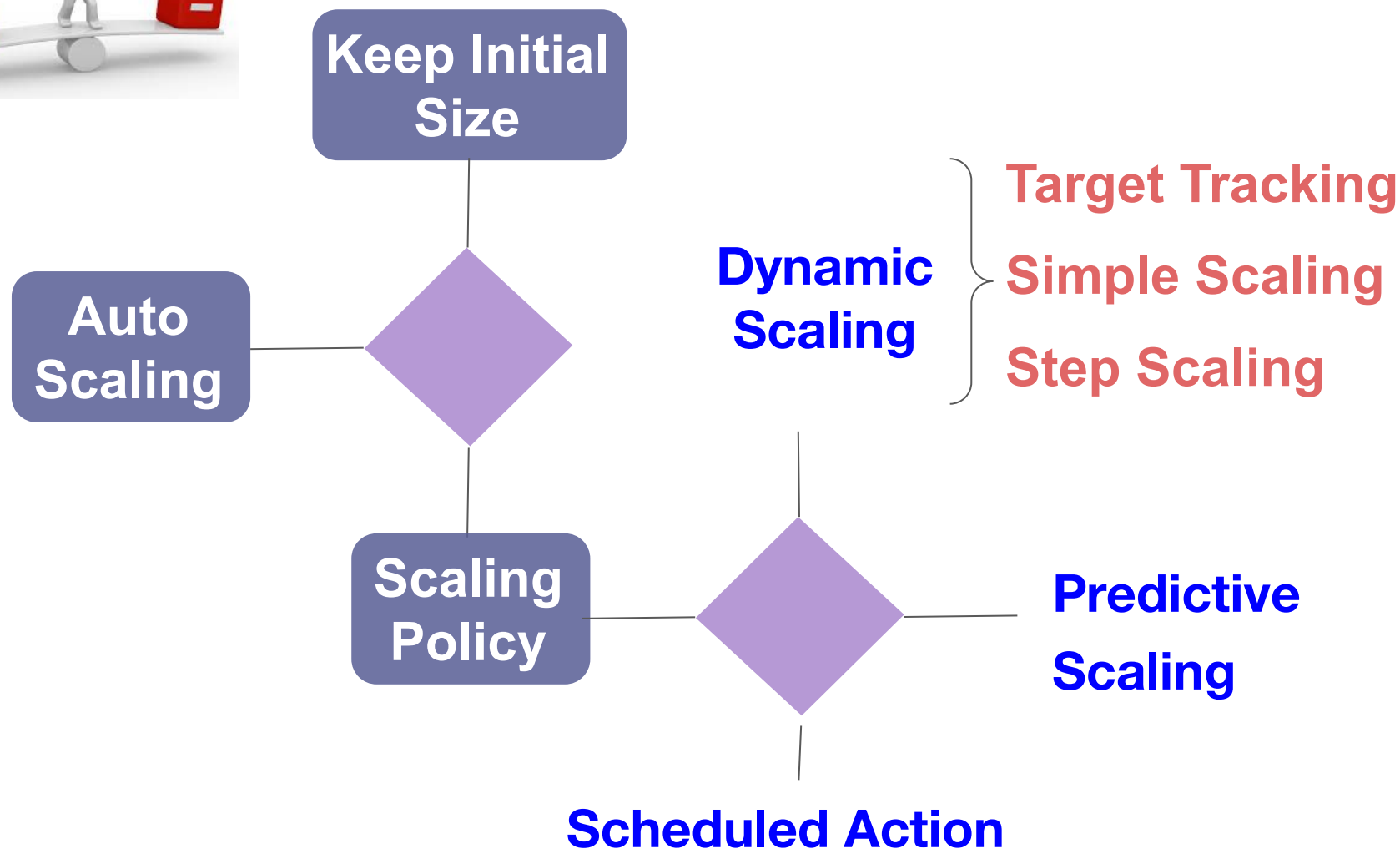
- March 31, 2023 - New accounts created after this date will not be able to create new launch configurations via the console. **API and CLI access will remain available to support customers** with automation use cases.
- December 31, 2023 - New accounts created after this date **will not be able to create new launch configurations.**



# Auto Scaling

Auto Scaling Options

Next session

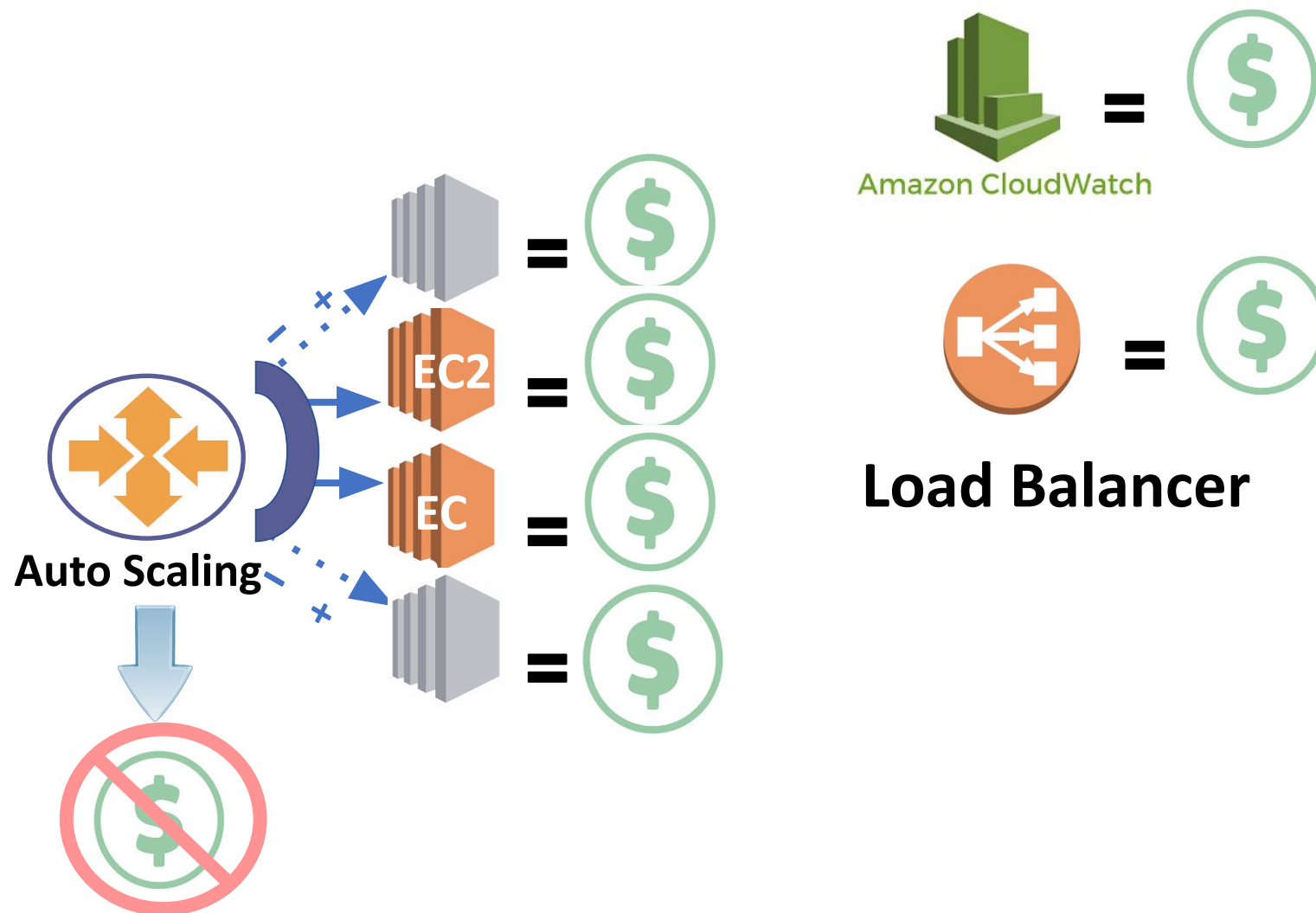






# Auto Scaling

## Pricing for Amazon EC2 Auto Scaling





Let's get our hands dirty!

- Creating an Auto Scaling Group



# THANKS!

**Any questions?**

