

**DATE : 31.01.2025**  
**DT/NT : DT**  
**LESSON : AWS**  
**SUBJECT: EC2 AUTOSCALING**

**BATCH : B 303**

**AWS-DEVOPS**



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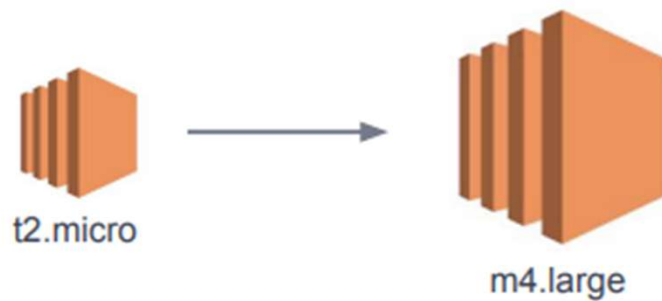


# **EC2 Auto Scaling**

# Auto Scaling

## What is Scaling?

### Vertical Scaling



Scale Up / Down

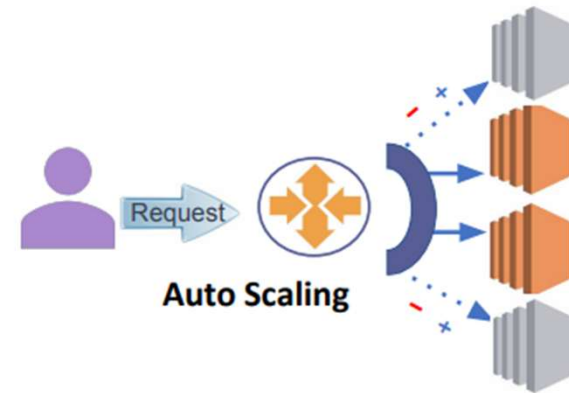
### Horizontal Scaling



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

## Features of Auto Scaling

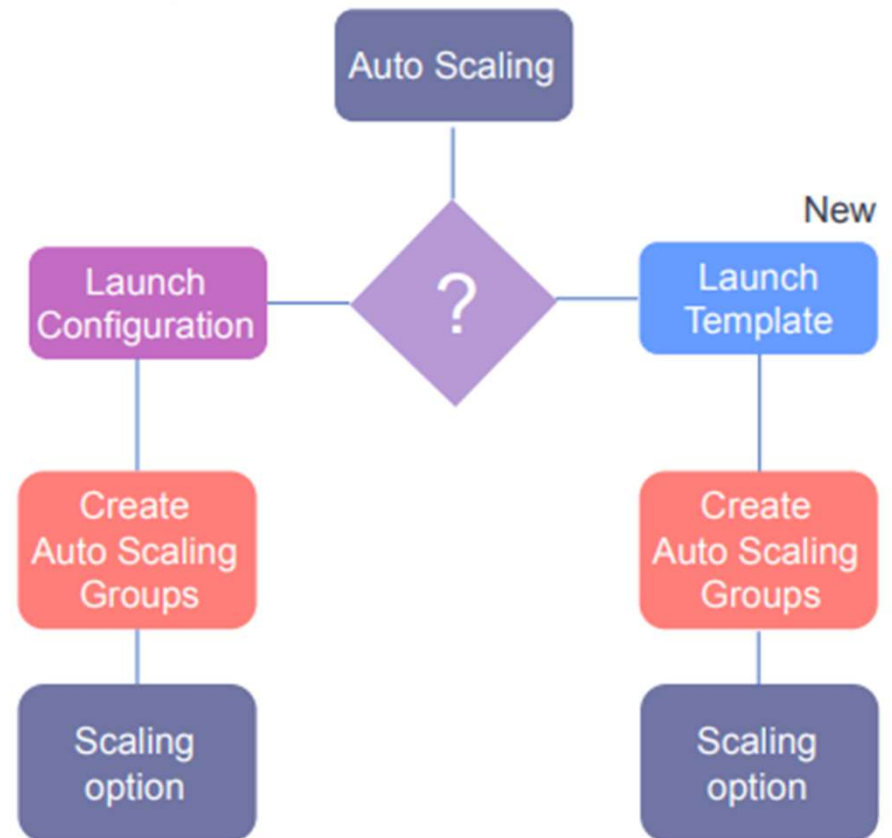


- Auto Scaling Policy
- Launch Configurations or Launch Templates.
- Fault tolerance.
- Compatible with Elastic Load Balancer
- Better Cost Management.

# Auto Scaling

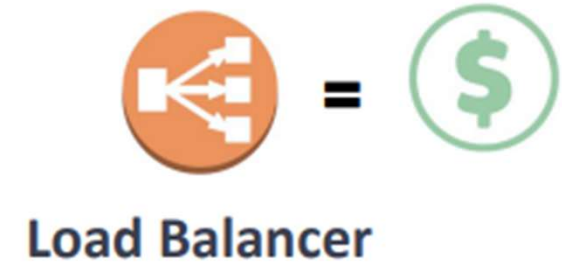
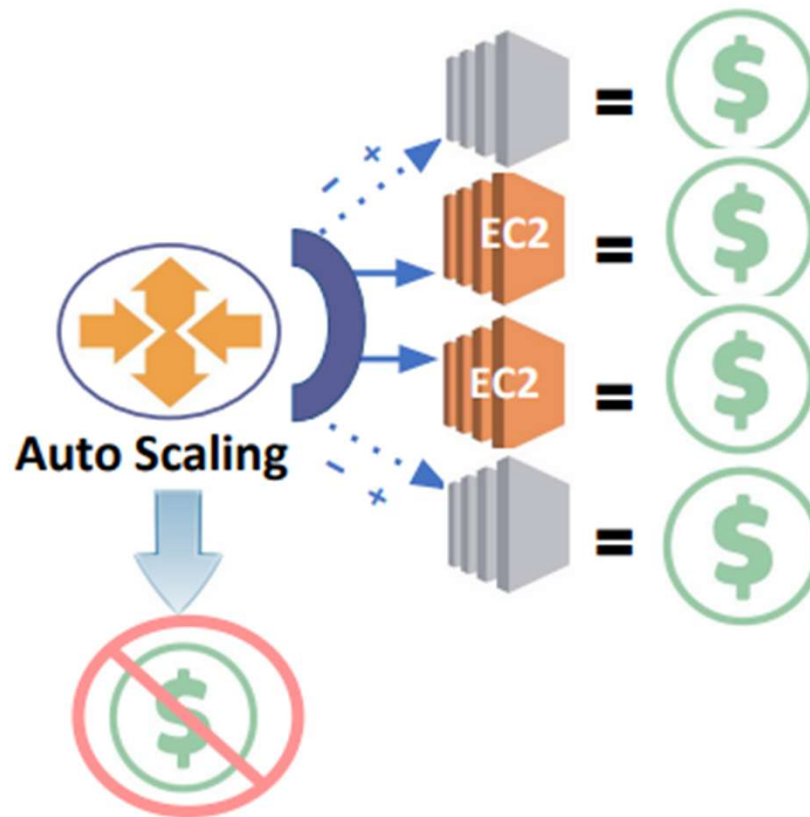
## Auto Scaling Creating Process

- 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

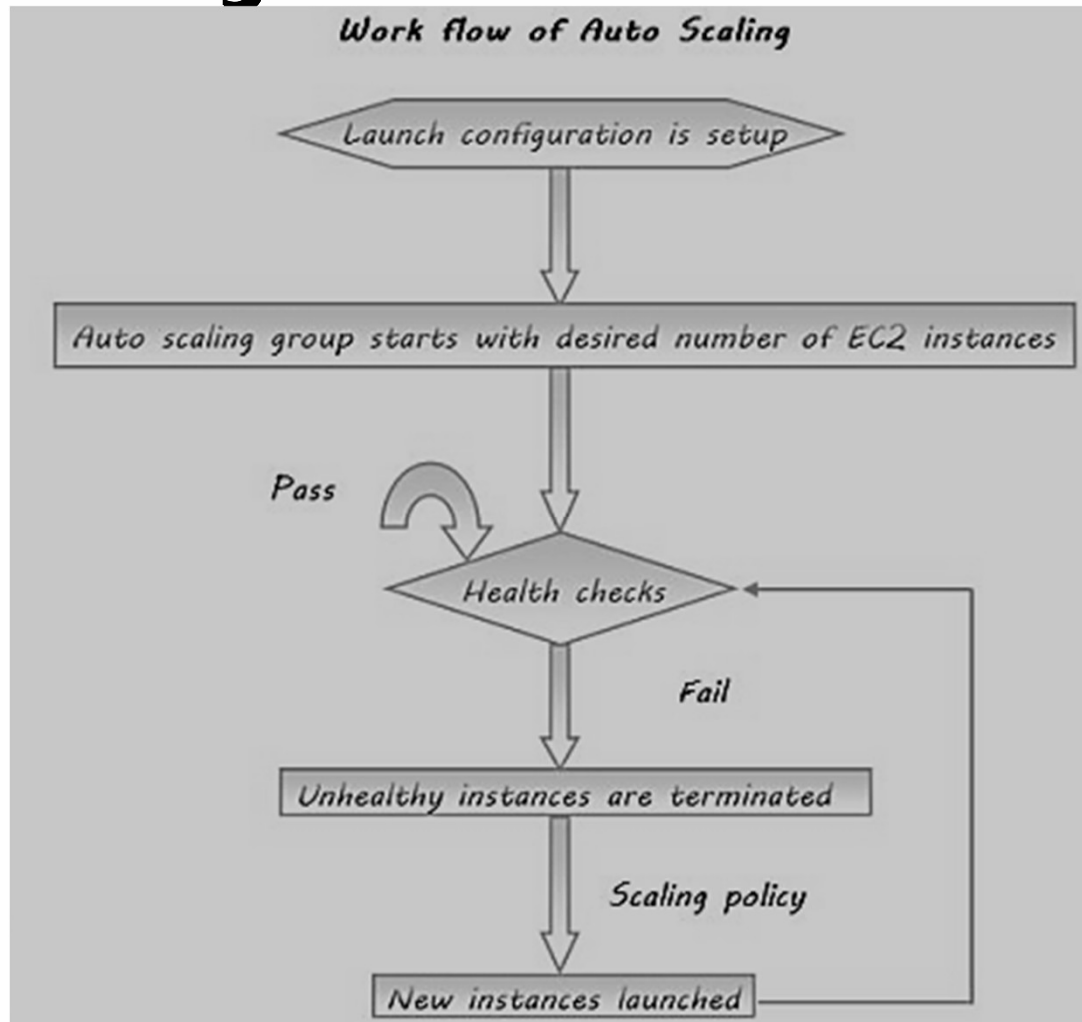


# Auto Scaling

## Pricing for Amazon EC2 Auto Scaling



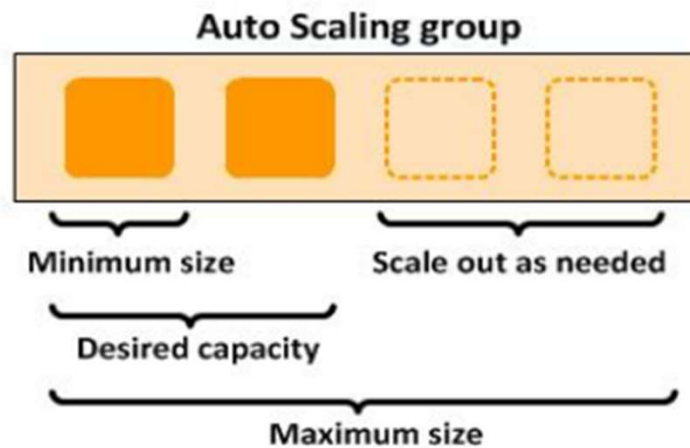
# Auto Scaling



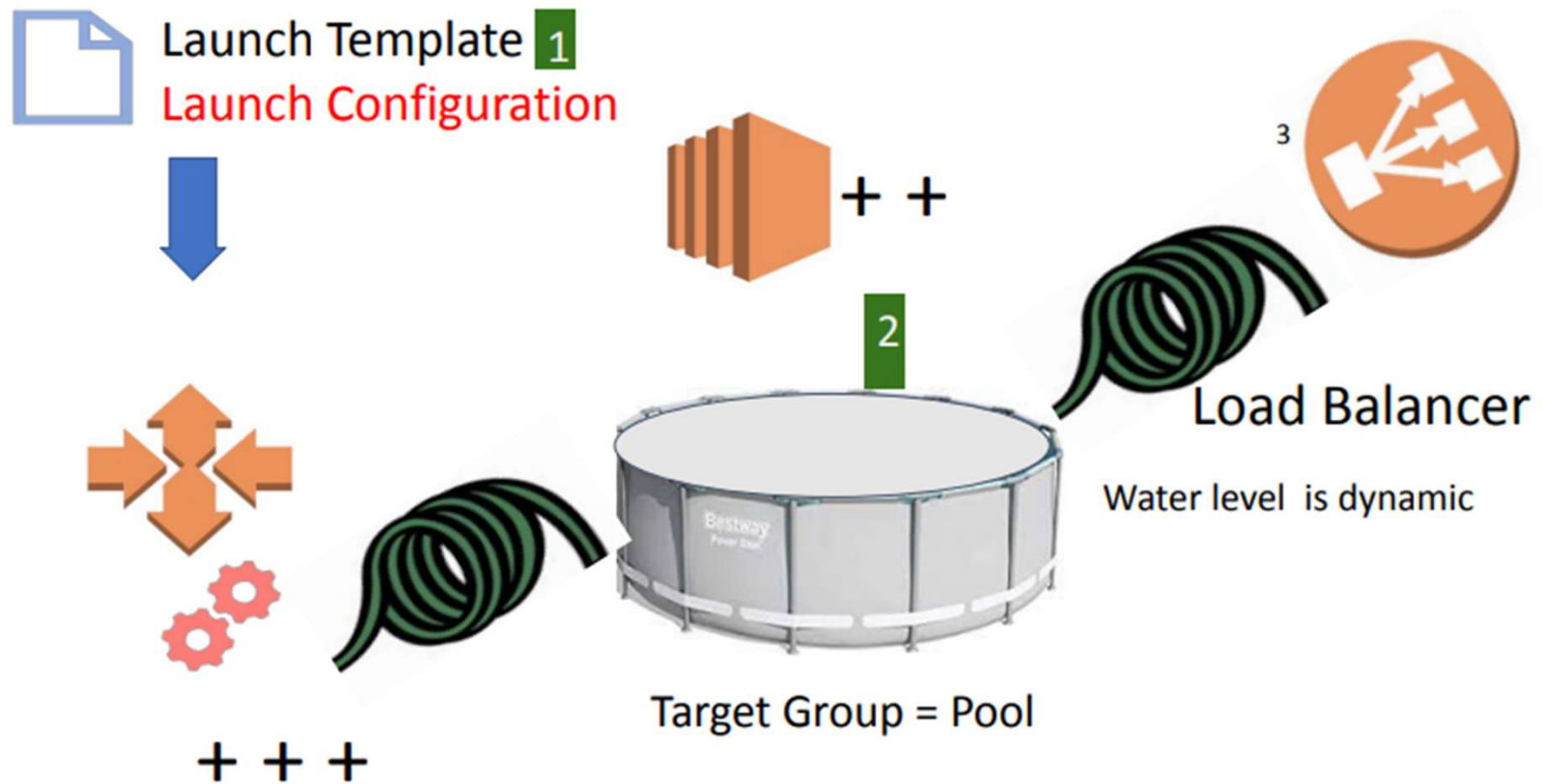


# Auto Scaling

Instances	Desired	Min	Max
Current 2	Will be/ Goal 2	Min limit for Policy 1	Max limit for Policy 4

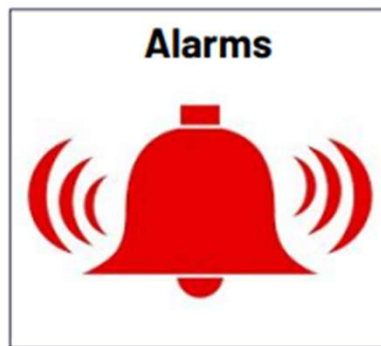
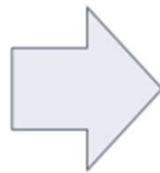


# Auto Scaling



# Auto Scaling

- triggered by **exceeding the limits**
- we watch out **the limits**



can trigger



# Auto Scaling

## Health Check Grace Period & Cooldown Period

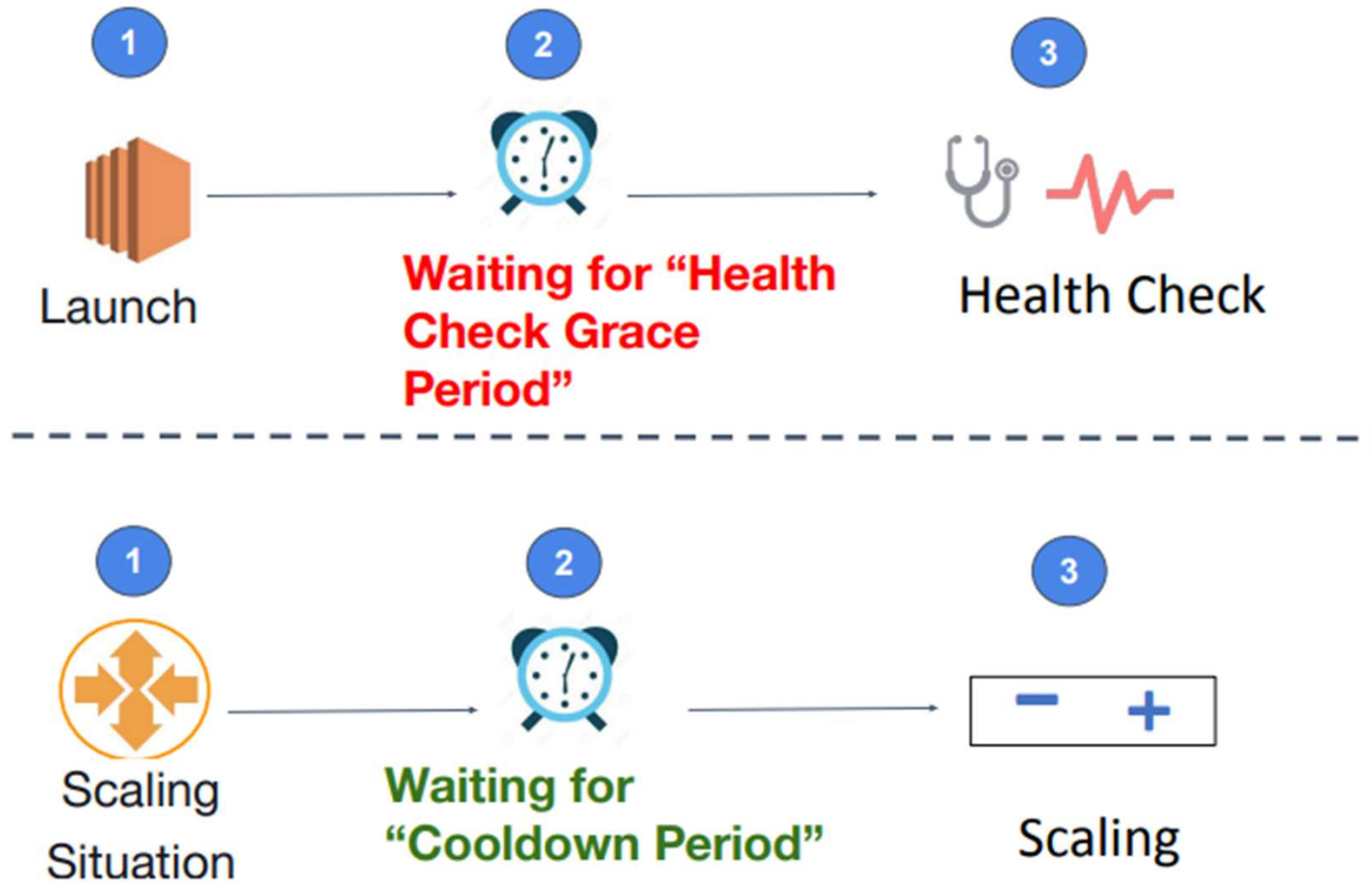
Muddy Sandy Sea Bottom in first seconds of diving



Clear Sea Bottom after waiting for a while

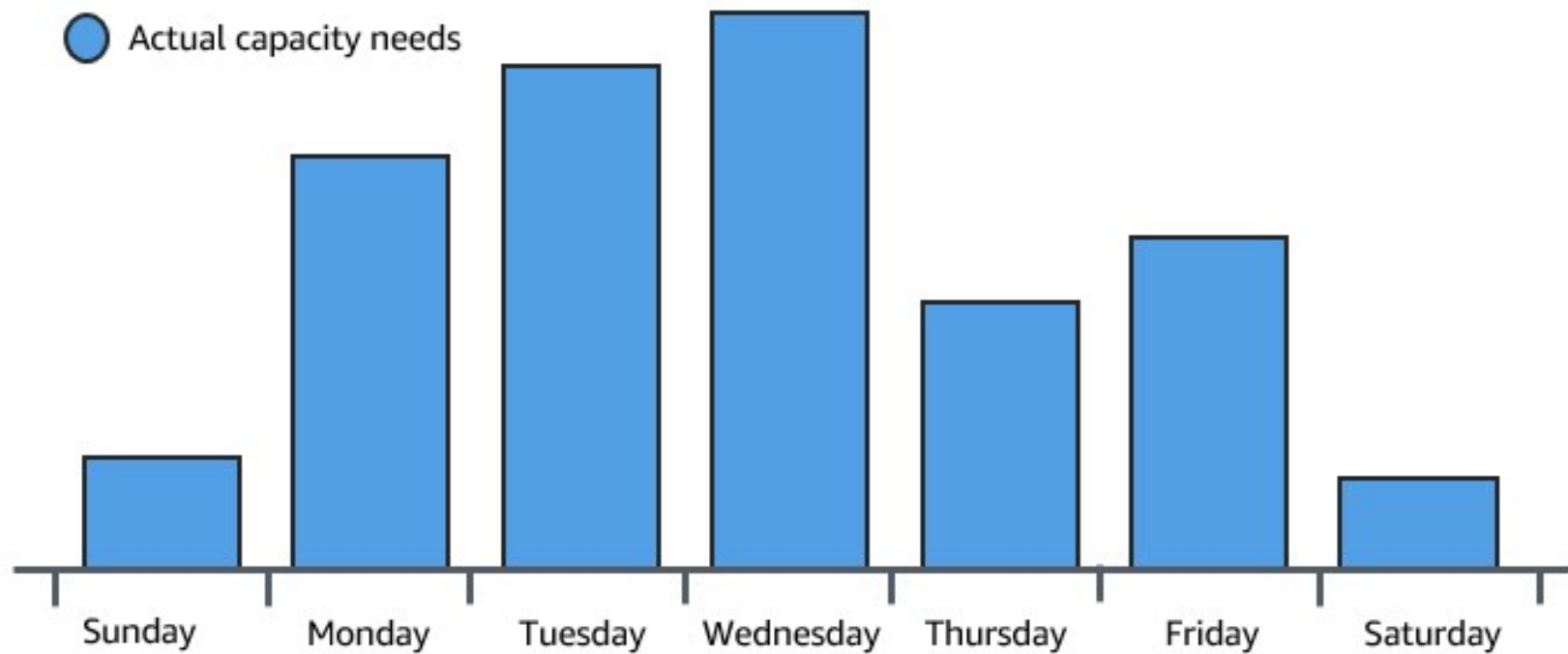


# Auto Scaling



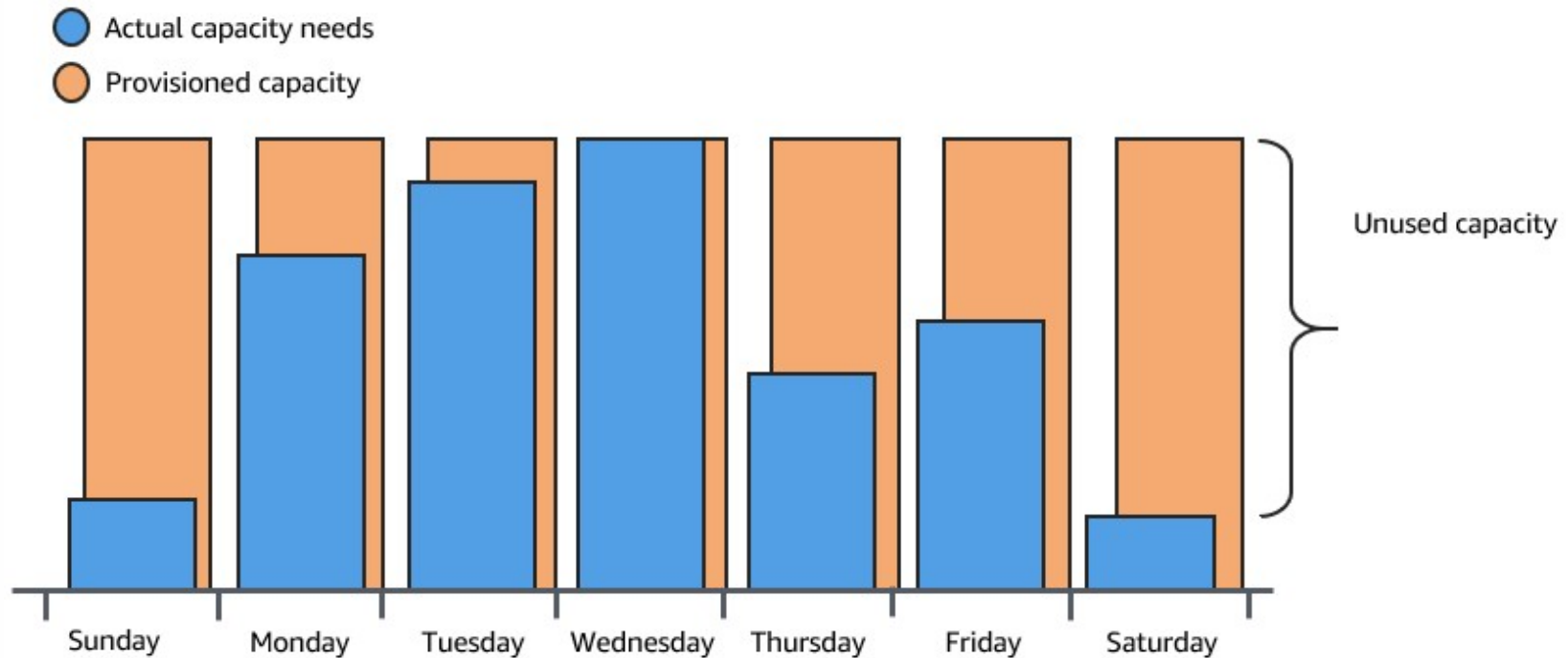
# Auto Scaling

Example: Cover variable demand



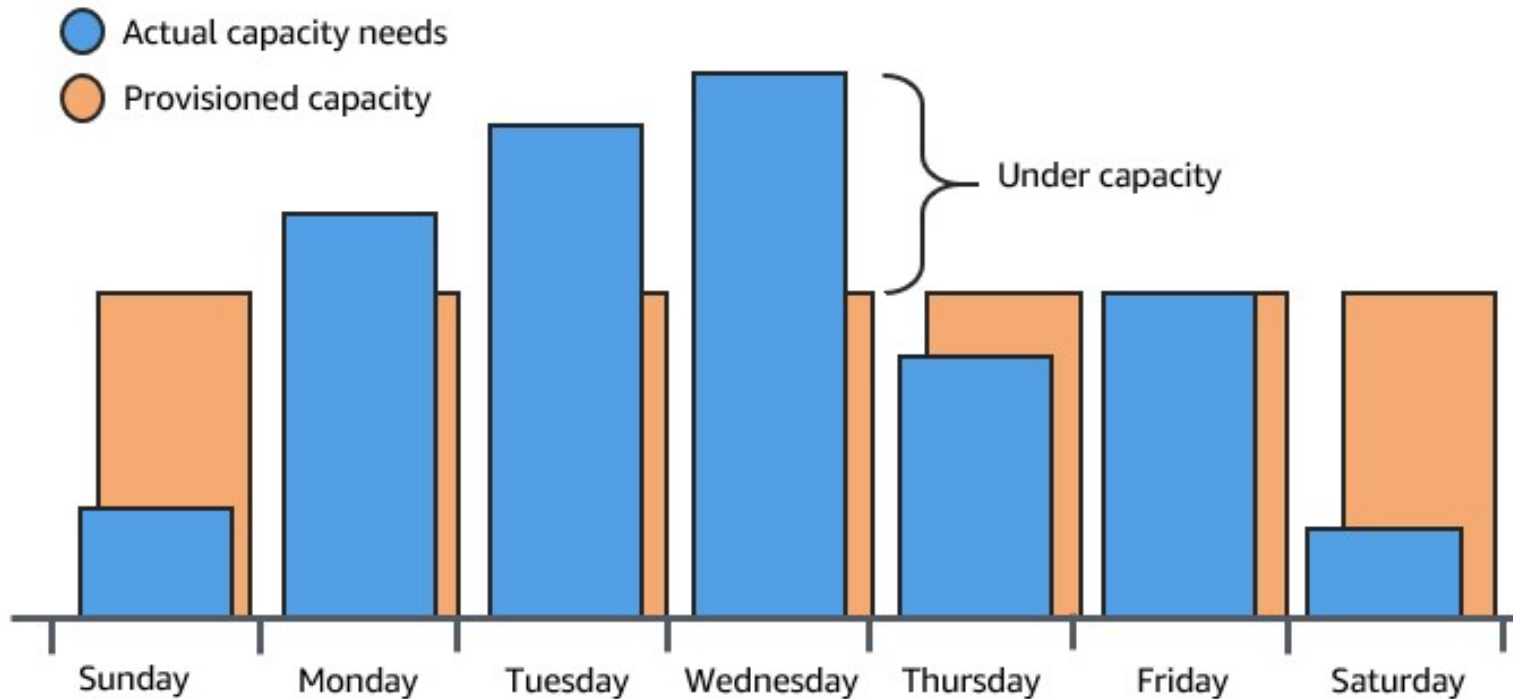
# Auto Scaling

## Example: Cover variable demand



# Auto Scaling

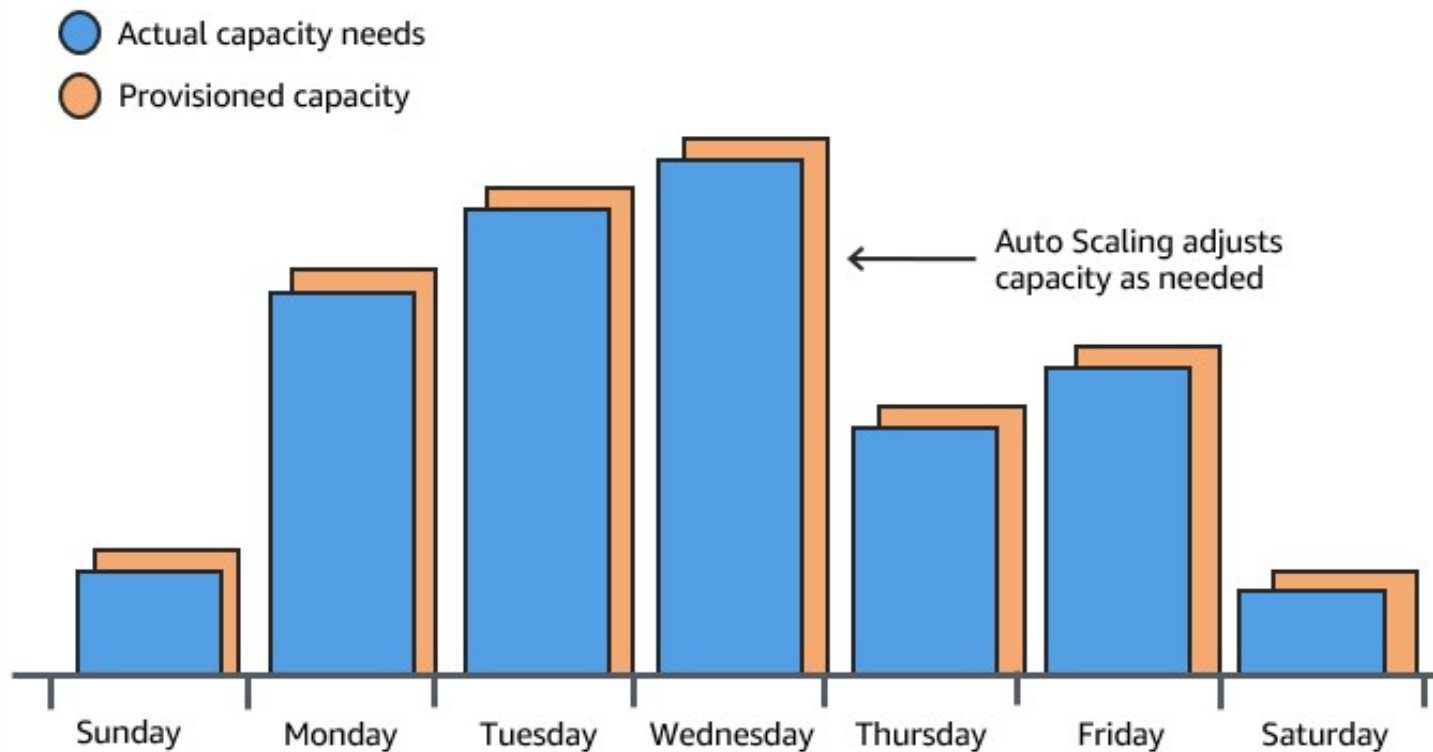
Example: Cover variable demand

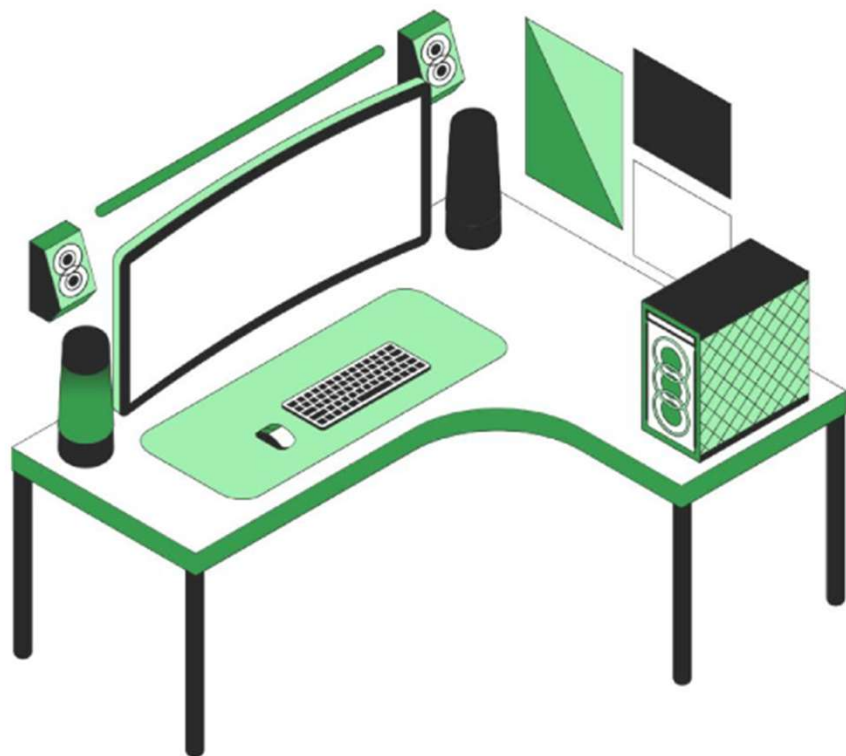




# Auto Scaling

## Example: Cover variable demand





# Do you have any questions?

Send it to us! We hope you learned something new.