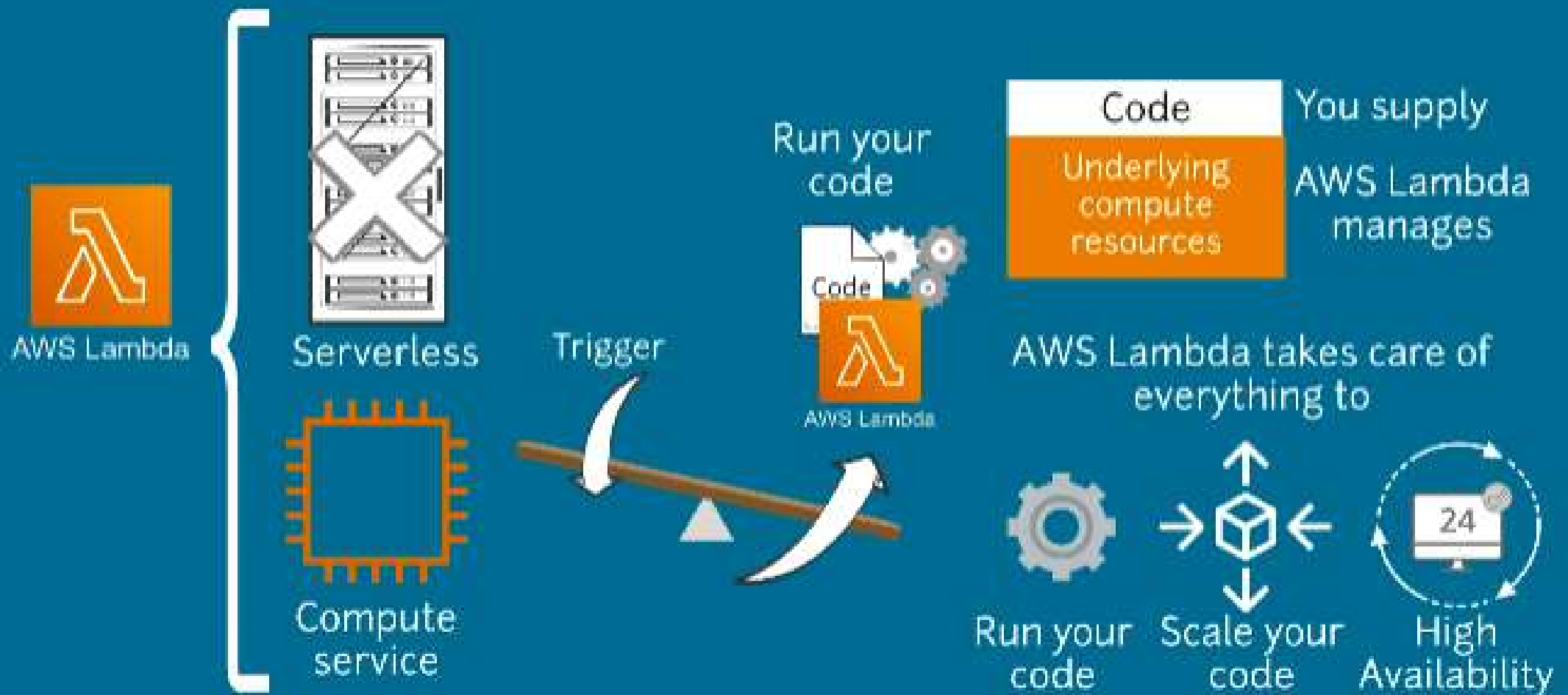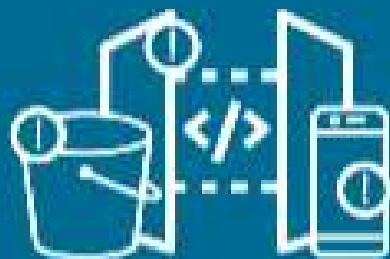# AWS Lambda

# How it works

Run on Lambda = Lambda function

Code

Upload your code to AWS Lambda or

Write code in Lambda's code editor

Set up your code to trigger from other AWS services, HTTP endpoints, in-app activity, or run on a schedule

Lambda is ready to run your code only when invoked, using only the compute resources needed
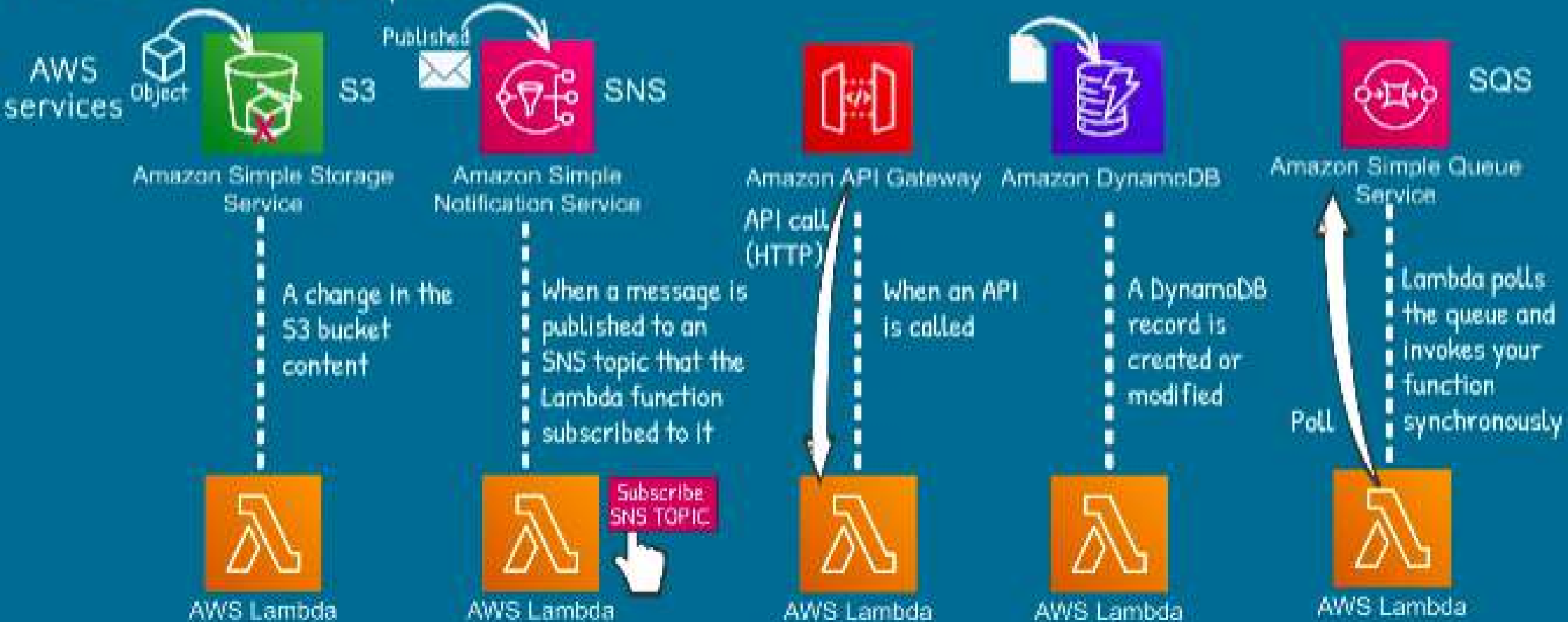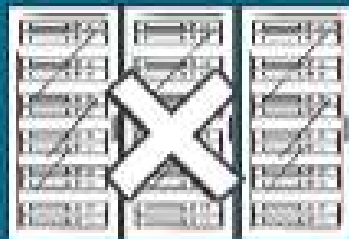
Just pay for the compute time you use

# Triggers

HTTP requests
AWS services → Triggers → AWS Lambda

AWS Lambda → Read → Queue Stream

Amazon EventBridge → Schedule Triggers → AWS Lambda

Here are some examples:

AWS services

Object → Amazon Simple Storage Service (S3)

Published → Amazon Simple Notification Service (SNS)

Amazon API Gateway

Amazon DynamoDB

Amazon Simple Queue Service (SQS)

A change in the S3 bucket content

When a message is published to an SNS topic that the Lambda function subscribed to it

API call (HTTP) — When an API is called

A DynamoDB record is created or modified

Lambda polls the queue and invokes your function synchronously

AWS Lambda

AWS Lambda — Subscribe SNS TOPIC

AWS Lambda

AWS Lambda

Poll

AWS Lambda

# Benefits

## No servers to manage

Upload code to Lambda

AWS Lambda

Just write the code

Lambda automatically runs your code

## Continuous Scaling

Trigger-1 Trigger-2

Process each trigger individually

Lambda automatically scales your application with the size of the workload

## Subsecond metering

Pay only for what you use

$ Pricing based on

# of requests

Duration

0 0 $4 \over 3$

Time to run the code

Increments of 1 msec

Code is not running

$ 0.00