**AMAZON LAMBDA**

AWS Lambda is serverless computing platform provided by Amazon as a part of the Amazon Web Services.

The purpose of Lambda is to simplify building smaller, on-demand applications that are responsive to events and new information.

With Lambda, you can run code for virtually any type of application or backend service - all with zero administration.

AWS Lambda was originally designed for use cases such as image upload, responding to website clicks or reacting to sensor readings from an IoT connected device. AWS Lambda can also be used to automatically provision back-end services triggered by custom HTTP requests, and "spin down" such services when not in use, to save resources.

AWS Lambda stores code in Amazon S3 and encrypts it at rest. AWS Lambda performs additional integrity checks while your code is in use.



**BENIFITS :**

* **NO SERVERS TO MANAGE**

AWS Lambda automatically runs your code without requiring you to provision or manage servers. Just write the code and upload it to Lambda.

* **CONTINUOUS SCALING**

AWS Lambda automatically scales your application by running code in response to each trigger. Your code runs in parallel and processes each trigger individually, scaling precisely with the size of the workload.

* **SUBSECOND METERING**

With AWS Lambda, you are charged for every 100ms your code executes and the number of times your code is triggered. You don't pay anything when your code isn't running.

How it works

Lambda\_HowItWorks

**USE :**

* You can use AWS Lambda to perform data validation, filtering, sorting, or other transformations for every data
* You can build serverless backends using AWS Lambda to handle web, mobile, Internet of Things (IoT), and 3rd party API requests.



**Example :**

Every time an image is uploaded into Amazon Simple Storage Service (S3), a Lambda function could automatically resize the image. The Seattle Times uses this to automatically resize images for mobile, tablet and desktop devices. The event that triggers the Lambda function is the file being uploaded to S3. Lambda then executes the function of resizing the image.