

What is AWS lambda

AWS Lambda is a server less compute service that executes code in response to events and automatically manages the underlying compute resources

Introduced in November 2014, it is part of the Function as a Service (FaaS) model, where developers write functions (small, self-contained pieces of code) that are triggered by specific events, such as an HTTP request, a file upload to Amazon S3, or a database update. Lambda abstracts server management, allowing developers to focus on writing business logic rather than handling infrastructure tasks like provisioning servers, scaling, or patching operating systems

Key characteristics of AWS Lambda

Server less: No need to manage servers, operating systems, or infrastructure. AWS handles all underlying resources

Event-Driven: Functions are executed in response to events from AWS services (e.g., S3, Dynamo DB, API Gateway) or custom sources

Automatic Scaling: Lambda scales automatically to handle varying workloads, from a few requests per day to thousands per second

Pay-Per-Use: You are charged only for the compute time your functions consume, billed in milliseconds, with no cost when idle.

How AWS Lambda works?

- The block diagram that explains the working of AWS Lambda in five easy steps is shown below –