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Introduction to Lambda

Unlock serverless computing with AWS Lambda!

DEFINITION

AWS Lambda is a serverless compute service that runs your code in response to events. It automatically manages the computing resources for you, allowing for easy scalability and reduced operational overhead.

KEY CONCEPTS

Event-driven architecture

Lambda functions are triggered by events, such as changes in data or user actions.

Serverless model

You don't need to provision or manage servers; AWS handles it all.

Function as a Service (FaaS)

Lambda allows you to run code without worrying about the underlying infrastructure.

Automatic scaling

Lambda automatically scales your application by running code in response to incoming requests.

Pay-per-use pricing

You only pay for the compute time you consume, with no charge when your code isn't running.

EXAMPLES

→ Processing uploaded files to S3 automatically.

→ Running backend services for a web application.

→ Triggering alerts based on changes in DynamoDB.

MEMORY TIPS

★ Think 'Lambda' as 'Lambdas run without servers'.

★ Remember 'FaaS' for Function as a Service.

★ Associate 'event-driven' with real-time actions.

COMMON MISTAKES

✗ Forgetting to set proper permissions for Lambda execution.

✗ Neglecting to optimize function performance and execution time.

✗ Overlooking the limits on execution duration and memory.

QUICK RECAP

AWS Lambda is a serverless computing service that runs code in response to events. It simplifies the deployment and scaling of applications while offering a pay-per-use pricing model.