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Introduction to Lambda

Unlock serverless computing with AWS Lambda!

DEFINITION

AWS Lambda is a serverless computing service that runs code in response to events. It automatically manages the computing resources for you, allowing you to focus on your code.

KEY CONCEPTS

Event-driven architecture

Lambda functions are triggered by events such as changes in data or HTTP requests.

Serverless model

You don't need to manage servers; AWS handles infrastructure scaling and maintenance.

Function as a Service (FaaS)

Lambda allows you to run code without provisioning or managing servers, charging only for usage.

Supported languages

Lambda supports multiple programming languages including Python, Node.js, Java, and C#.

Concurrency

Lambda can handle multiple requests simultaneously, scaling automatically based on demand.

EXAMPLES

- Run a Python script to process uploaded images.
- Trigger a function when a new item is added to a DynamoDB table.
- Respond to HTTP requests via API Gateway.

MEMORY TIPS

- ★ Think 'Lambda = Light' for quick, on-demand computing.
- ★ Remember FaaS: Functions run as a Service.
- ★ Event-driven = Events trigger actions, like a domino effect.

COMMON MISTAKES

- ✗ Forgetting to set appropriate permissions for Lambda functions.
- ✗ Not optimizing function execution time, leading to higher costs.
- ✗ Overlooking the limits on concurrent executions.

QUICK RECAP

AWS Lambda is a serverless service that runs code in response to events. It simplifies application development by eliminating server management, allowing you to focus on writing and deploying code efficiently.