AWS Lambda

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What?
- AWS Lambda is a serverless, event-driven compute service that lets you run code for virtually any type of application or backend service without provisioning or managing servers.
- AWS Lambda functions run for a maximum of up to 15 minutes per invocation

Why?
- With Lambda, you can run your code with zero administration overhead.
- AWS Lambda takes care of everything required to run and scale your code with high availability.
- You can set up your code to automatically trigger from other AWS services or call it directly from any web or mobile app.

When?
- Lambda is best suited for shorter, event-driven workloads, such as processing streaming data stored in Amazon Kinesis, or custom events generated by your applications.
- You want to build data-processing triggers for AWS services such as Amazon S3 and Amazon DynamoDB.

Where?
- AWS Lambda is a regional service. It runs your code on high availability compute infrastructure in a region.
- It maintains compute capacity across multiple AZs in each AWS Region to help protect your code against individual machine or data center facility failures.

Who?
- Lambda performs all the administration of your compute resources including server and operating system maintenance, capacity provisioning and automatic scaling, code and security patch deployment, and code monitoring and logging.
- All you need to do is supply the code.

How?
- The code you run on AWS Lambda is uploaded as a Lambda function. Each function has associated configuration information, such as its name, description, entry point, and resource requirements.
- Lambda will run your function by launching and managing compute resources as needed based on incoming requests.

How much?
- Billing is metered in increments of one millisecond. You are charged based on the number of requests for your functions and the duration it takes for your code to execute.
- With Provisioned Concurrency, you pay for the amount of concurrency you configure and the duration that you configure it.