COHORT-08_Lamda API gateway.

Part 1 - Summary

Use this space to summarize your thoughts on the lesson

Part 2 - Responses

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1 Introduction to
Serverless

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Introduction to Serverless
What is Serverless?

- Lambda **(FaaS-Function as a Service)**
- DynamoDB
- Aurora Serverless
- API Gateway
- SQS

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Introduction to Serverless Infrastructure
What is Serverless Infrastructure and Why?

- Run applications **without servers.**
- **Eliminate infrastructure management**
- Cost effective

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AWS Lambda
What is Lambda?

- AWS Lambda is the first FaaS service among the global public cloud products.
- It is a serverless compute service that runs your code in response to programmed events.

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AWS Lambda
What is Lambda?

- AWS Lambda lets you run code without provisioning or managing servers
- Instead of launching an EC2 instance to run your code on it, you can just deploy your code in Lambda services and you can get the same result.
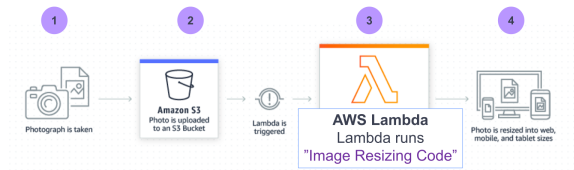
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AWS Lambda
How Lambda function works?

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AWS Lambda
Exactly pay as you go

Pay as you go

EC2

You will be charged as long as your instance is running even if your code runs or not.

You will be only charged when the functions that you deployed are run.

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Link(s) on this slide:
● https://aws.amazon.com/lambda/pricing/

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AWS Lambda
Lambda codes

Ruby
Programming

python
Programming

Go

node
js

C#

Java

Lambda supports Java, Go, PowerShell, Node.js, C#, Python, and Ruby code.

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AWS Lambda
Lambda and API Gateway

- Alexa
- **API Gateway**
- CloudTrail
- CloudWatch Events
- CloudWatch Logs
- CloudFormation
- CloudFront (Lambda@Edge)
- CodeCommit
- CodePipeline
- Cognito
- Config
- DynamoDB
- EC2
- ElastiCache
- Elastic Load Balancing

- EFS
- IoT
- IoT Events
- Kinesis Firehose
- Kinesis Streams
- Lex
- RDS
- S3
- S3 Batch
- SES
- SNS
- SQS
- Step Functions
- X-Ray

Although you can trigger Lambda function in different way, the most common trigger of the Lambda function is API Gateway

Thanks to Lambda and API Gateway combination you can create fully automated system.

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2 API Gateway

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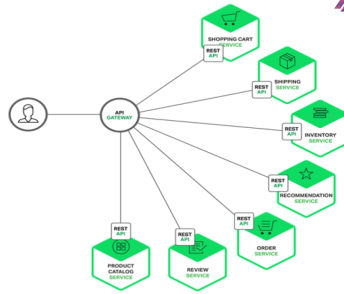## Slide 14
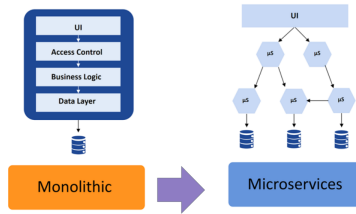
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Use this space to take notes:

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API Gateway
What is API Gateway?

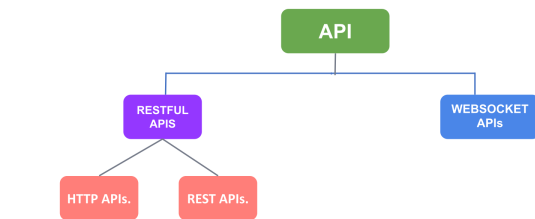The API Gateway is responsible for routing, design, and interface transfer requests.

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API Gateway
API Gateway in AWS

API

RESTFUL APIS   WEBSOCKET APIs

HTTP APIs.   REST APIs.

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API Gateway
What is REST?

- REST (Representational State Transfer) is a service structure that enables easy and fast communication between client and server.

- REST runs on HTTP.

- JSON or XML type

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API Gateway
What is RESTful ?

- Web services that use REST architecture are called RESTful services.

- GET,
- POST,
- PUT,
- DELETE

RESTful API
DELETE POST PUT GET

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API Gateway
Pricing

Pay as you go

- With Amazon API Gateway, you only pay when your APIs are in use. There are no minimum fees or upfront commitments.

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Link(s) on this slide:
- https://aws.amazon.com/api-gateway/pricing/

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Let's get our hands dirty!

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THANKS!

Any questions?

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