

#### Introduction to Serverless Infrastructure



What is Serverless Infrastructure and Why?



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



- 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.

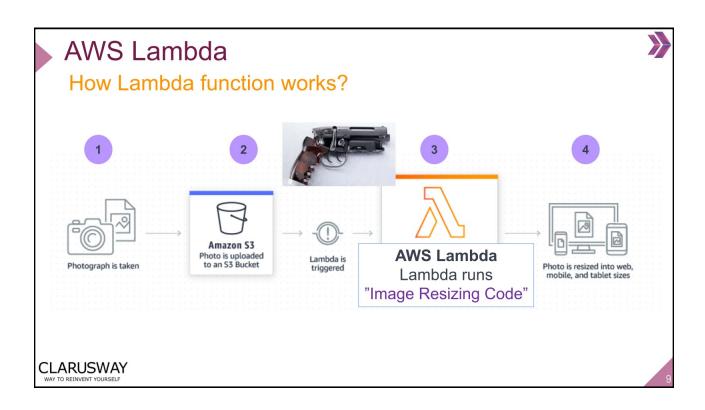
CLARUSWAY

# 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.

CLARUSWAY
WAY TO REINVENT YOURSELF



## **AWS Lambda**

Exactly pay as you go











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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# **AWS Lambda**

Lambda codes











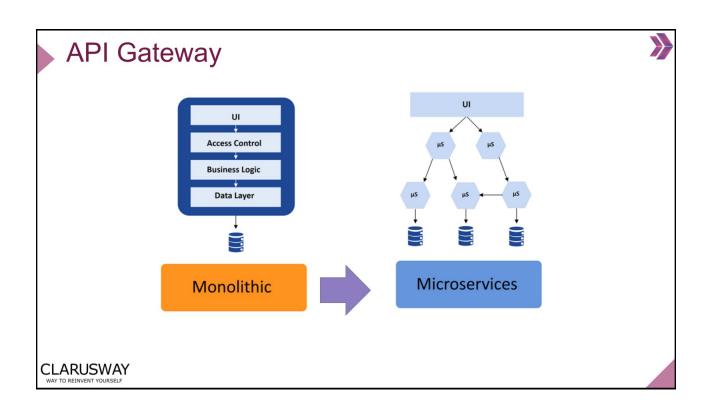


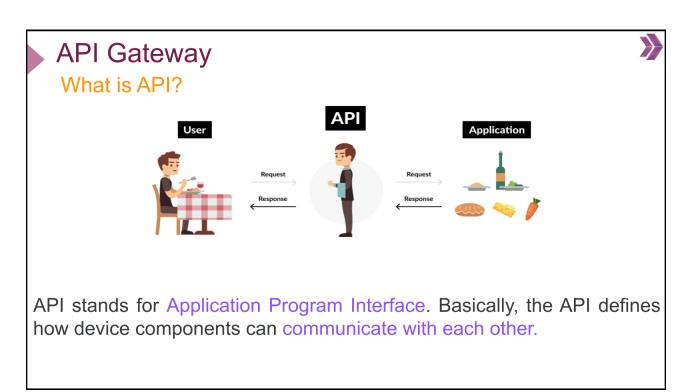


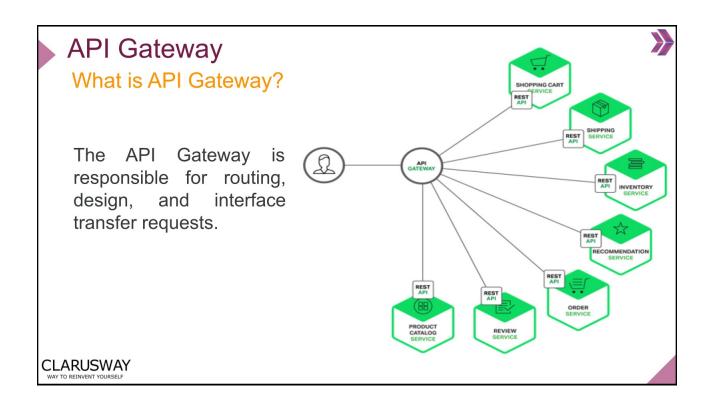
Lambda supports Java, Go, PowerShell, Node.js, C#, Python, and Ruby code.

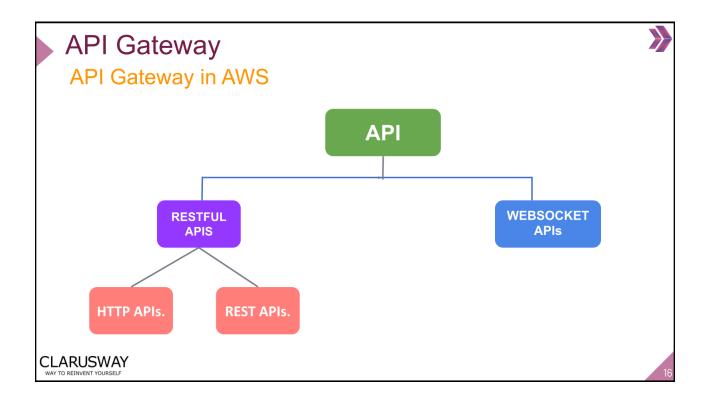
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# **API** Gateway





- REST runs on HTTP.
- JSON or XML type

#### CLARUSWAY WAY TO REINVENT YOURSELF

# **API** Gateway

#### What is RESTful?

 Web services that use REST architecture are called RESTful services.

- GET,
- POST,
- PUT,
- DELETE





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## **AWS Lambda**

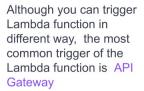
#### Lambda and API Gateway

- 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







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





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