



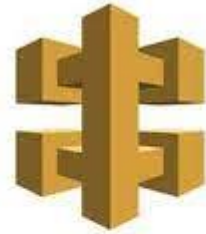
BATCH : 149
LESSON : AWS
DATE : 07.09.2023
SUBJECT : Lambda-API GTW

ZOOM GİRİŞLERİNİZİ LÜTFEN LMS SİSTEMİ ÜZERİNDEN YAPINIZ





AWS Lambda



Amazon API
Gateway



Lambda and API Gateway

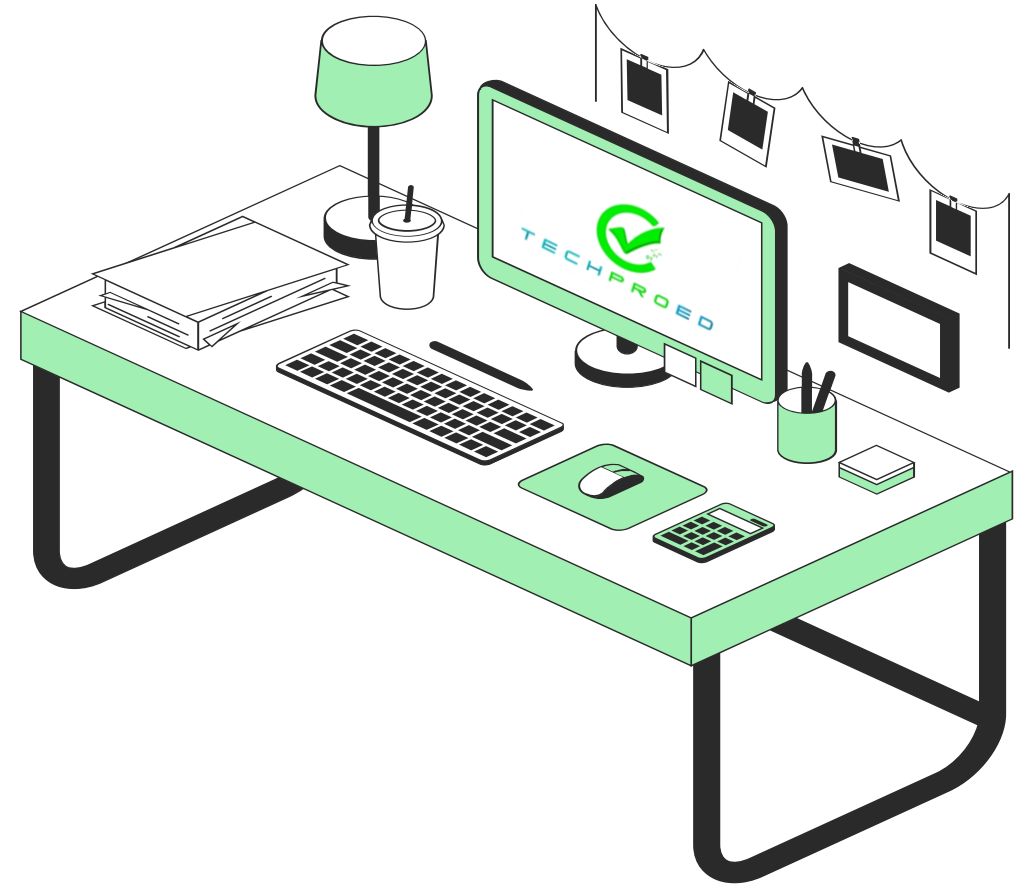
















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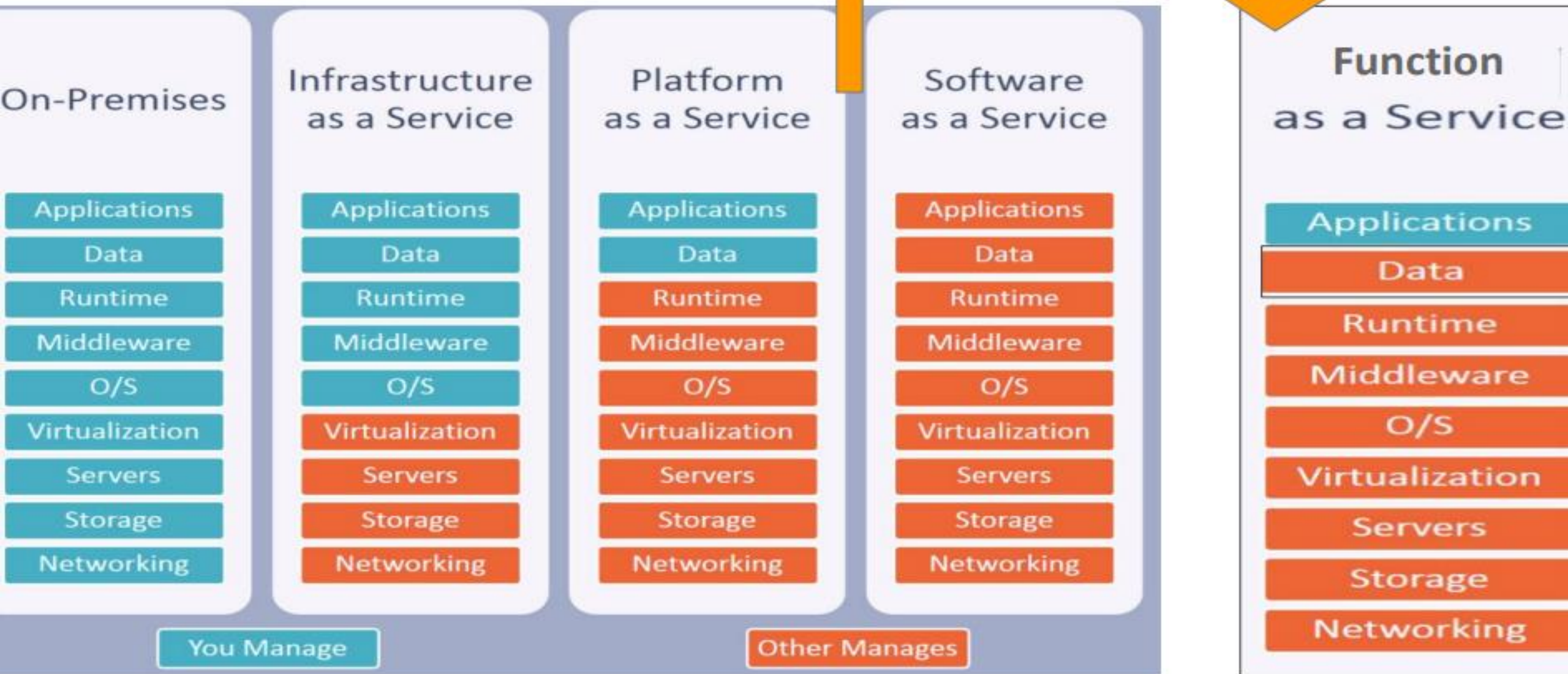


Serverless-Function as a Service(FaaS)

Compute	Messaging	Integration	Security	Monitoring	Database	Analytics
						
AWS Lambda	Amazon SQS	Amazon API Gateway	Amazon Cognito	Amazon Cloudwatch	Amazon DynamoDB	Amazon Kinesis
						
AWS Fargate	Amazon SNS	AWS Step Functions	AWS Key Management Service	Amazon Quicksight	Amazon Aurora	Amazon Athena

Introduction to Serverless

What is Serverless?





On-premises



EC2



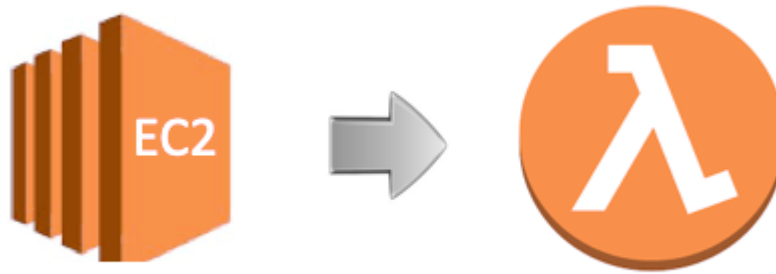
AWS Fargate



AWS Lambda



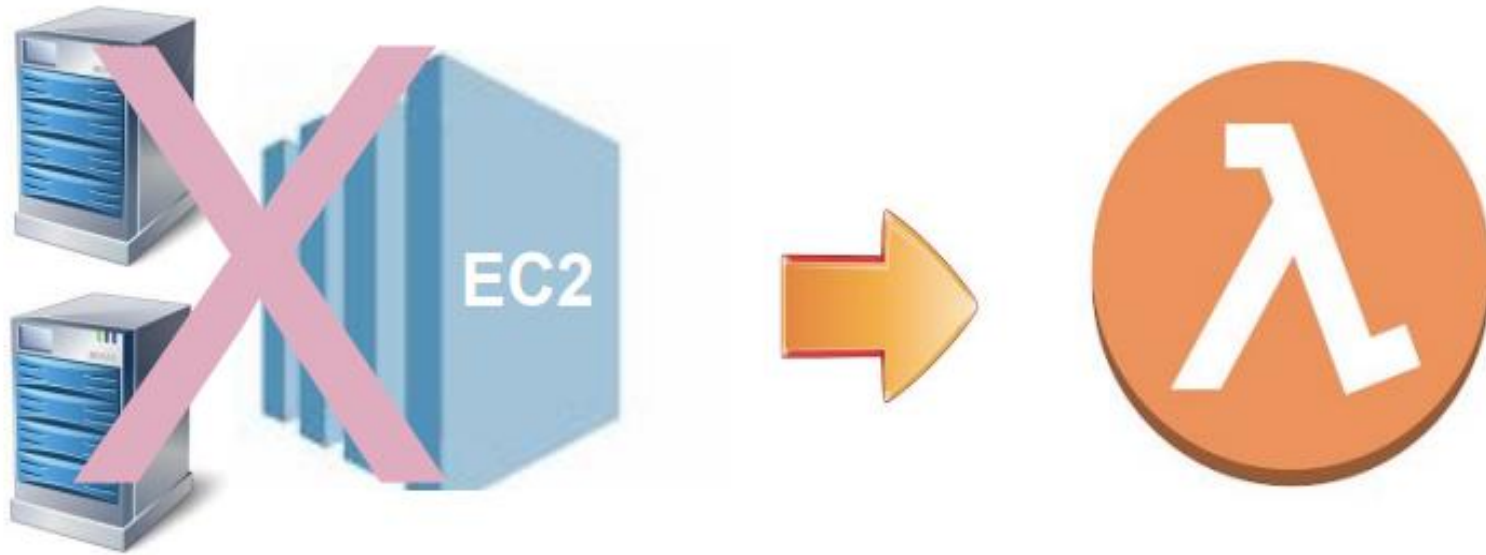
✔ What is Lambda ?



- ✔ AWS Lambda is a serverless compute service that runs your code in response to events and automatically manages the underlying computing resources for you.
- ✔ 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. AWS Lambda lets you run code without provisioning or managing servers.

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.

AWS Lambda

How Lambda function works?



► AWS Lambda

Exactly pay as you go



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 function that you deployed are run.

AWS Lambda

Lambda codes



Go

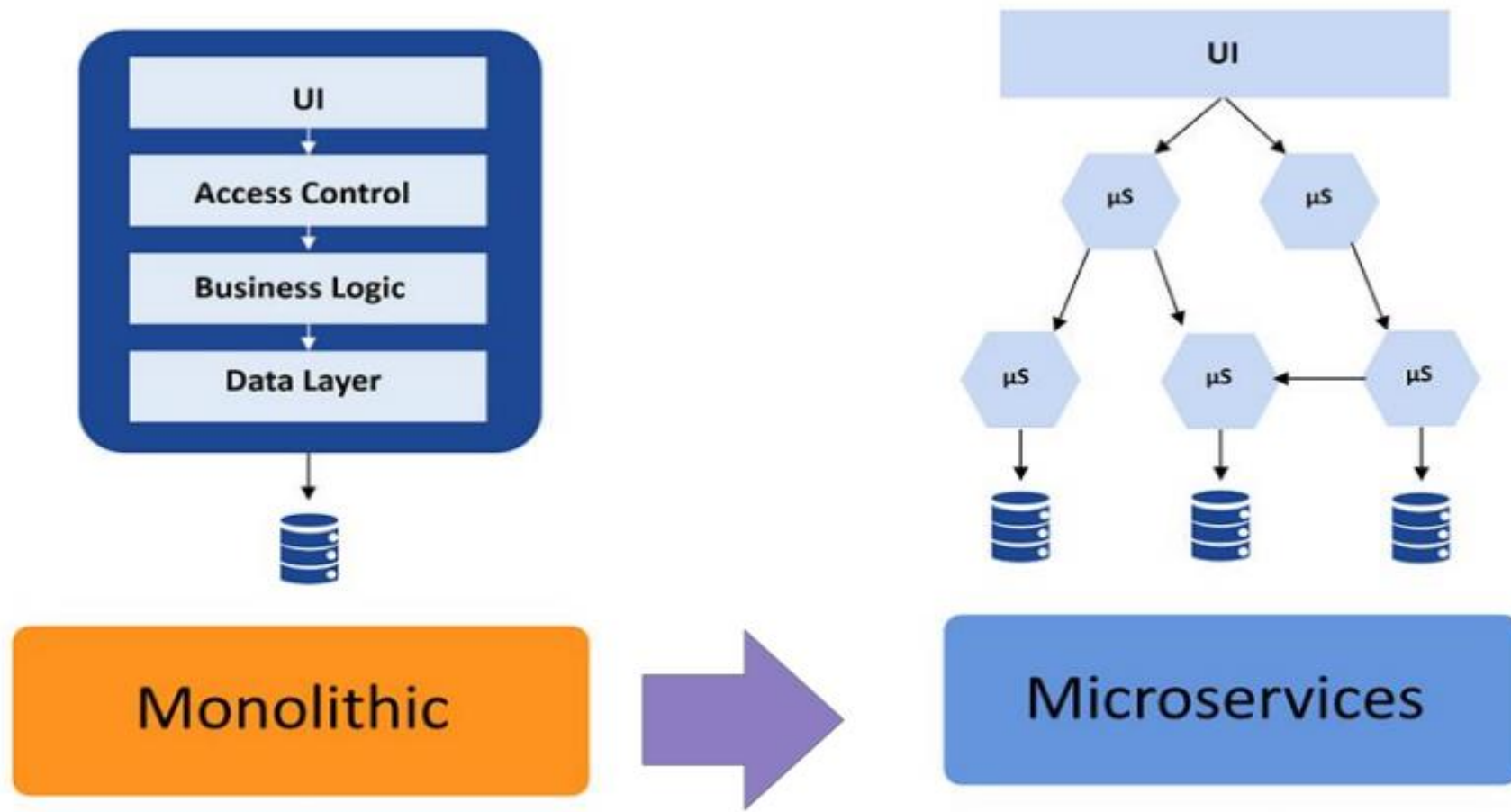


Lambda supports Java, Go, PowerShell, Node.js, C#, Python, and Ruby code.

✔ What is API Gateway ?



API Gateway





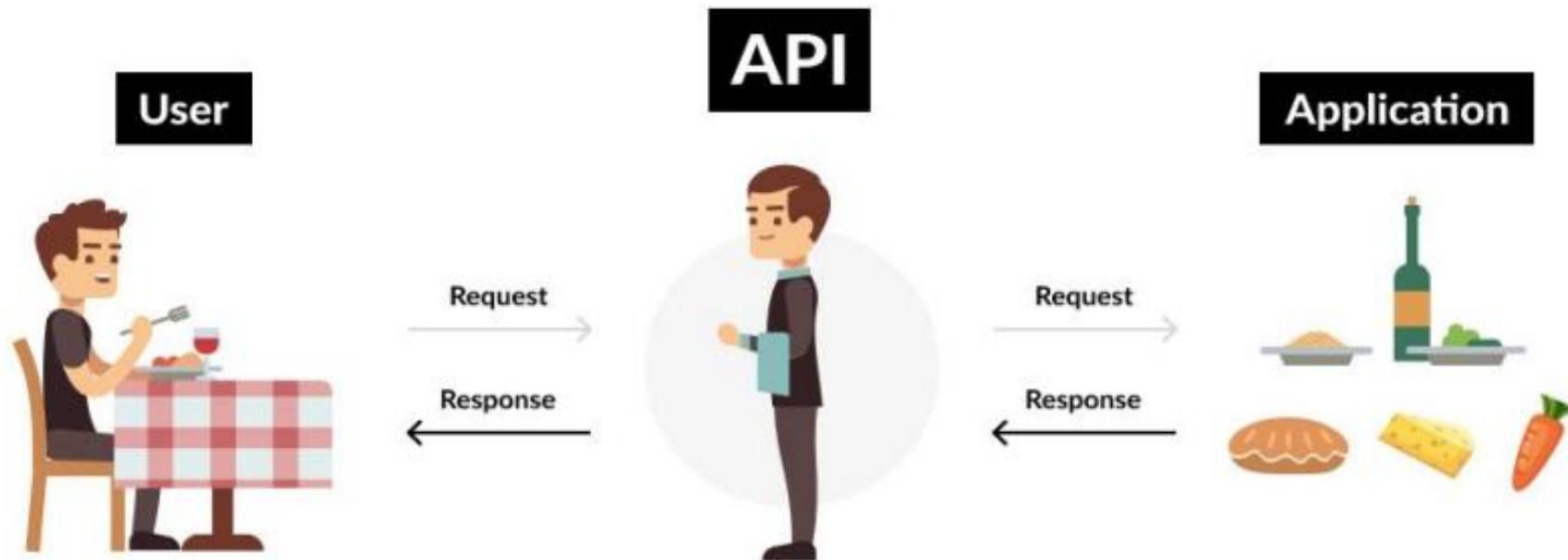
What is API Gateway?

Amazon API Gateway is an AWS service that enables you to create, publish, maintain, monitor, and secure your own REST and WebSocket APIs at any scale.

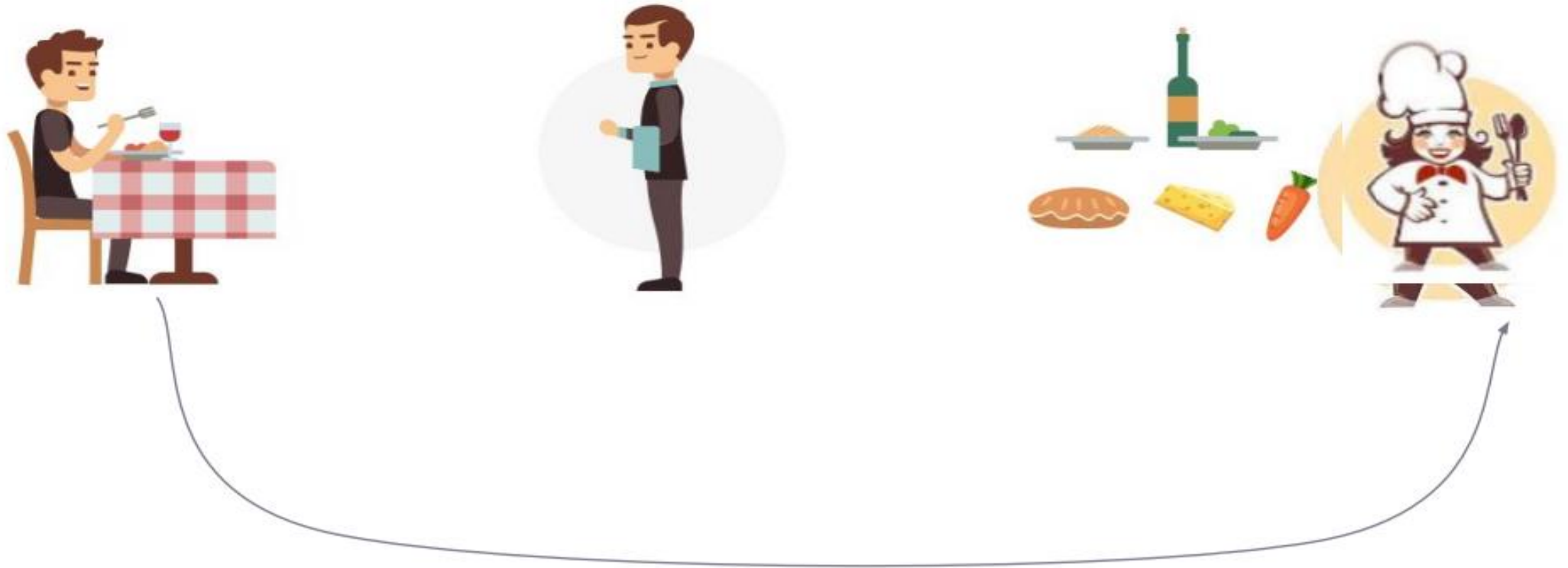


API Gateway

What is API?



Assume that we are not using API



API Gateway in AWS

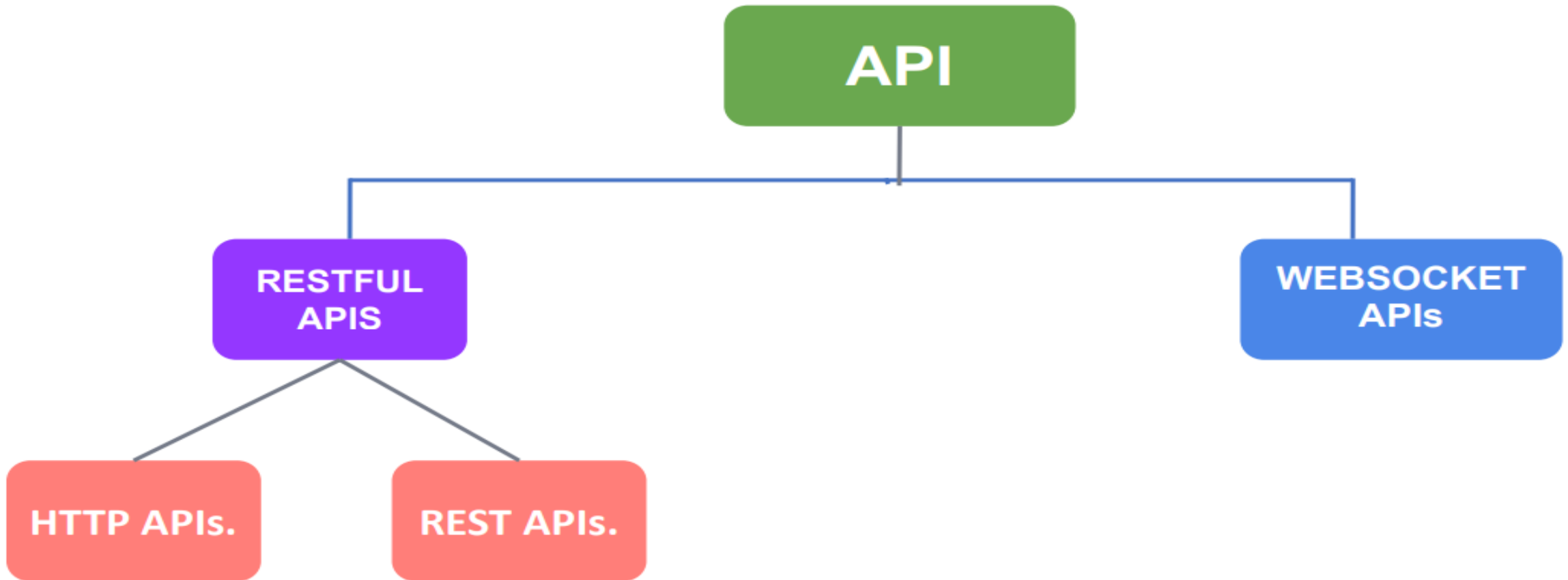


API Gateway

- Amazon API Gateway is an AWS service for creating, publishing, maintaining, monitoring, and securing REST, HTTP, and WebSocket APIs at any scale.
- Amazon API Gateway offers 3 options to create RESTful APIs, HTTP APIs, REST APIs, and WebSocket APIs.
 - ✓ HTTP API
 - ✓ REST API
 - ✓ WebSocket

API Gateway

API Gateway in AWS



AWS Lambda

Lambda and API Gateway

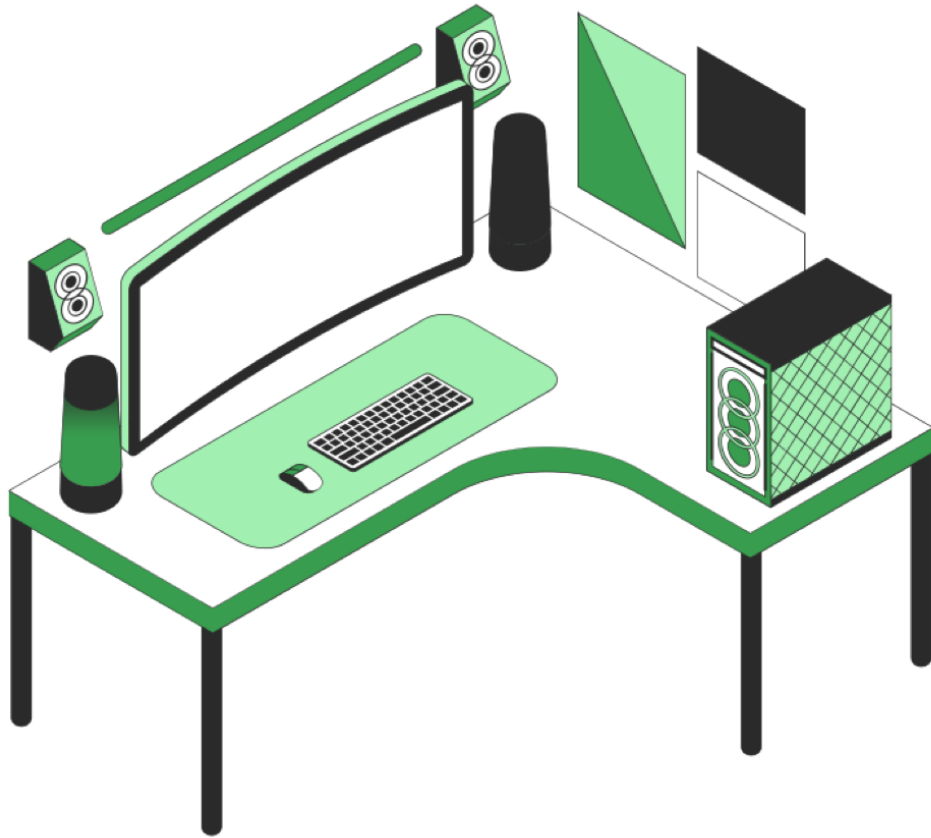
- Alexa
- **API Gateway**
- CloudTrail
- CloudWatch Events
- CloudWatch Logs
- CloudFormation
- CloudFront (Lambda@Edge)
- CodeCommit
- CodePipeline
- Cognito
- Config
- DynamoDB
- EC2
- ElastiCache
- Elastic Load Balancing
- EFS
- IoT
- IoT Events
- Kinesis Firehose
- Kinesis Streams
- Lex
- RDS
- S3
- 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.





Do you have any questions?

Send it to us! We hope you learned something new.