Build a Real-time Pizza Tracker with Serverless

Maxime DAVID
Software Engineer
Serverless Team
@Datadog

AWS Community Builders

github.com/maxday

Build a Real-time • Pizza Tracker with Serverless

Let's get started with a DEMO

DEMO

Let's order a pizza!

Scan with your phone to order a (fake **()** pizza

Build a Real-time V Pizza Tracker V with Serverless

"Build and run applications without thinking about servers" - AWS

(https://aws.amazon.com/serverless)

"Serverless is a type of application that eliminates all infrastructure management, simplifying the developer experience" - GCP

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- 1 Deploy code only, not infrastructure
- 2 Automatic scaling
- 3 Built-in high availability*
- 4 Pay as you use

You may already know Serverless?

- AWS Lambda, S3, DynamoDB
- GCP Cloud Functions, Pub/Sub
- Azure Functions

Build a Real-time V Pizza Tracker V with Serverless V

Build a Real-time V Pizza Tracker V with Serverless V

Features

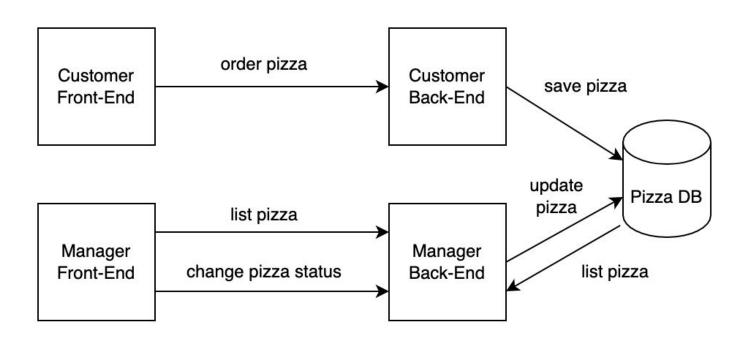
Customers can

- order pizza
- be notified of pizza status updates

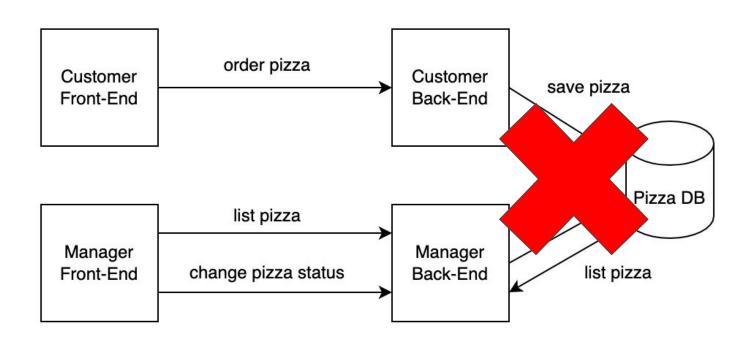
Managers can

- list pizza
- update pizza status

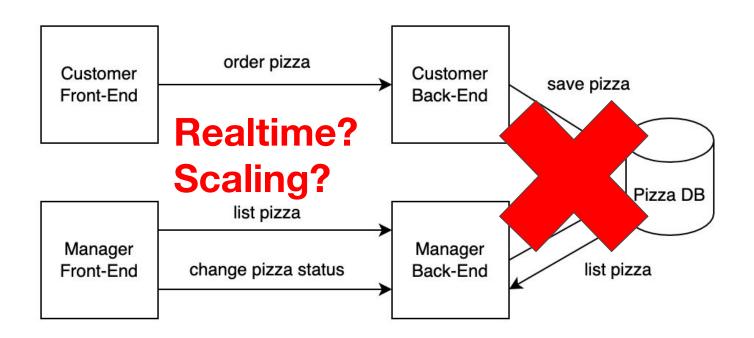
Architecture - naïve draft



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Architecture - naïve draft





API Gateway



Lambda Function



DynamoDB



S3



API Gateway (+ websocket)

- Map routes to service
- REST + Websocket
- Built-in authentication



Lambda Functions

- Function as a service
- Event driven compute service
- Any language

AWS Lambda Example



DynamoDB

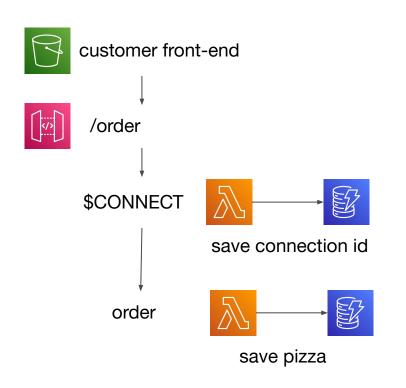
- Fast NoSql Database
- Single digit performance
- High availability

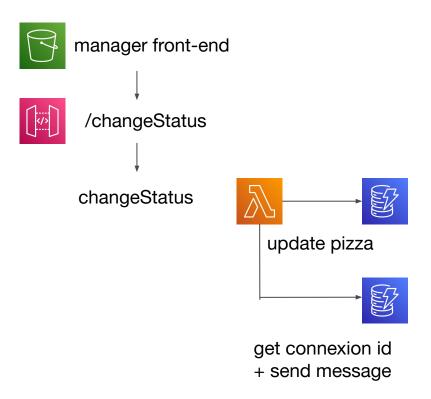


S3 (Simple Storage Service)

- Object storage
- High availability
- Can serve static files

Architecture 100% Serverless





Questions?