Introduction to Serverless

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Agenda

- Serverless Computing ?
- Traditional vs Serverless
- Benefit of Serverless
- Best players
- Hands-On
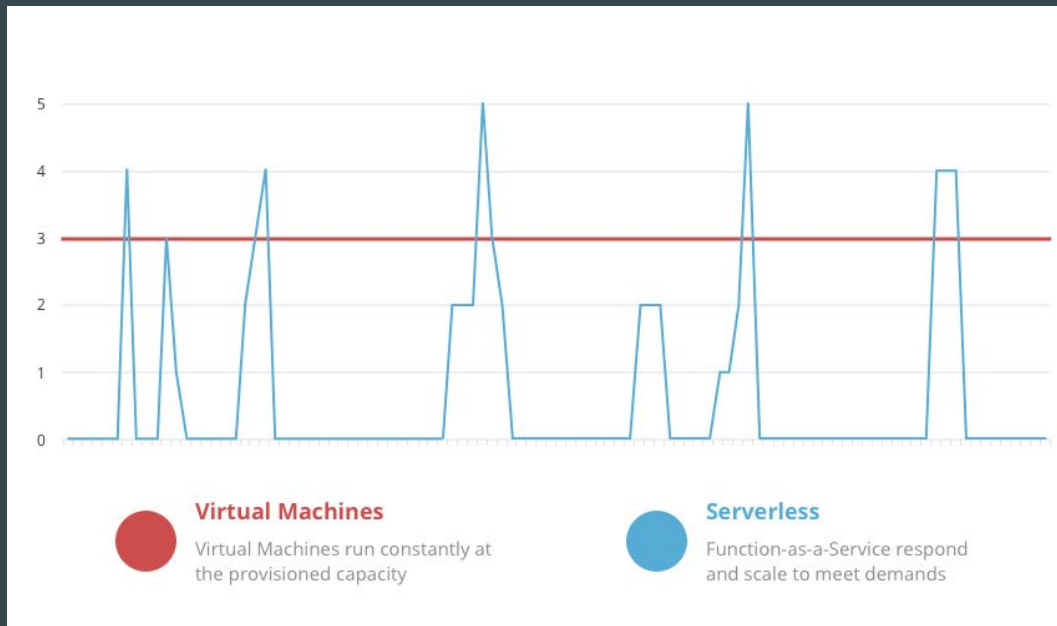- Q&A

What Exactly it is ?

- Servers are no longer involved
- Servers management
- Maintenance effort
- Popular FaaS (Function as a Service)

Traditional vs Serverless

- Traditional Computing
    - 3 tier system(Presentation, Application & Database)
        - Planning
        - Connection
        - Budgeting
        - Power
        - Vertical Scaling & So on ...
- Serverless
    - API Gateways & Functions
    - No need to think about Compute
    - Horizontal Scaling

Benefits

- No Servers
- Continuous Scaling

Virtual Machines
Virtual Machines run constantly at the provisioned capacity

Serverless
Function-as-a-Service respond and scale to meet demands

Leaders

- AWS Lambda
- Azure Function

AWS Lambda Overview

- Basics
    - Compute Service
    - Only get executed when needed
    - Scales Automatically
    - Supported Languages
        - Node.js
        - Python
        - Java
        - C#

When to Use ?

- Application code
- No Intervention
    - Memory
    - Network
    - CPU

Hands-On

Photograph is taken → Lambda is triggered → λ →