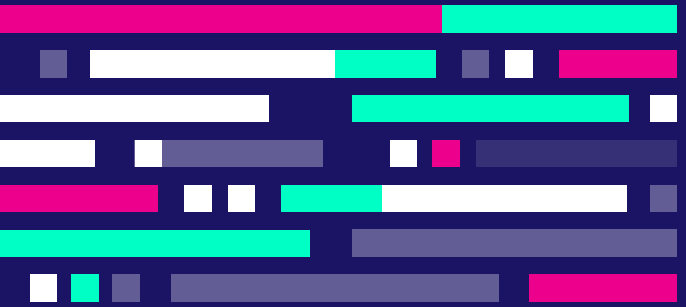
Serverless Architecture

Server

Hardware

Software



Serverless Architecture

Serverless architecture, also known as serverless computing or Function as a Service (FaaS), is a cloud computing execution model where the cloud provider automatically manages the infrastructure required to run and scale applications.

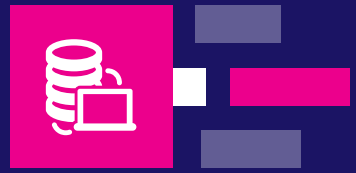
KEY CHARACTERISTICS AND ADVANTAGE OF SERVERLESS

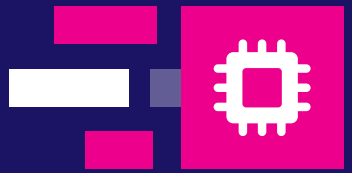
Broad language Support

Allowing programmers to choose language of their choice

No Server Management

Worry less about server provisioning and maintenance



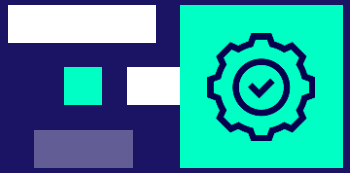


Event-Driven

Functions can be easily tiggered by events

Automatic Scaling

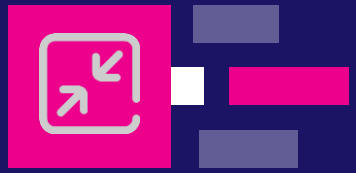
Automatic scale functions in response to incoming requests or functions



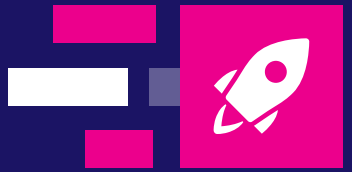
Simplified Development

Developers can focus on writing code alone without managing a server.

Microservies Architecture



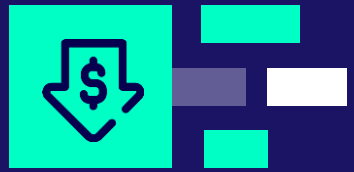
Allowing developers to decompose application into smaller/efficient function



Fast Time-to-Market

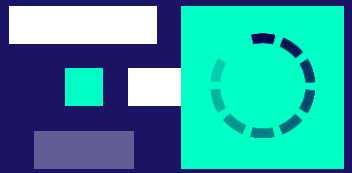
Enables faster development cycles

Cost Efficiency



Only pay for the actualy compute resources used during function execution

DISADVANTAGE OF SERVERLESS

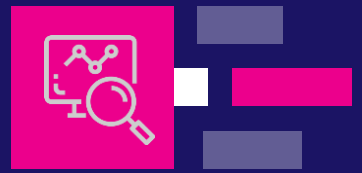


Cold Start Latency

Functions tiggered after a period of inactivity may experience latency

Debugging and Monitoring

Can be challenging as functions may run in isolated environments

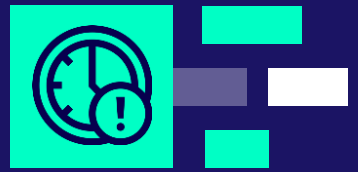


Limited Execution Environment

Serverless platforms may have restrictions on the execution environment

Limited Execution Time

Serverless functions have maximum execution time limit imposed by platforms



Cloud Computing Providers

Amazon Web Service

Microsoft Azure

Google Cloud Platform

Oracle Cloud

Firebase

Demonstration

THANKS!

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