



Azure Functions

AI service with serverless data computing

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강민주

- ✓ **Serverless Computing**
- ✓ **Azure Functions**
- ✓ **Example** (live conding)
 - **Web Crolling using python with Azure Functions**

SERVERLESS COMPUTING

WHAR IS SERVERLESS?



서버 / 스토리지 / 데이터센터 / 신기술미래

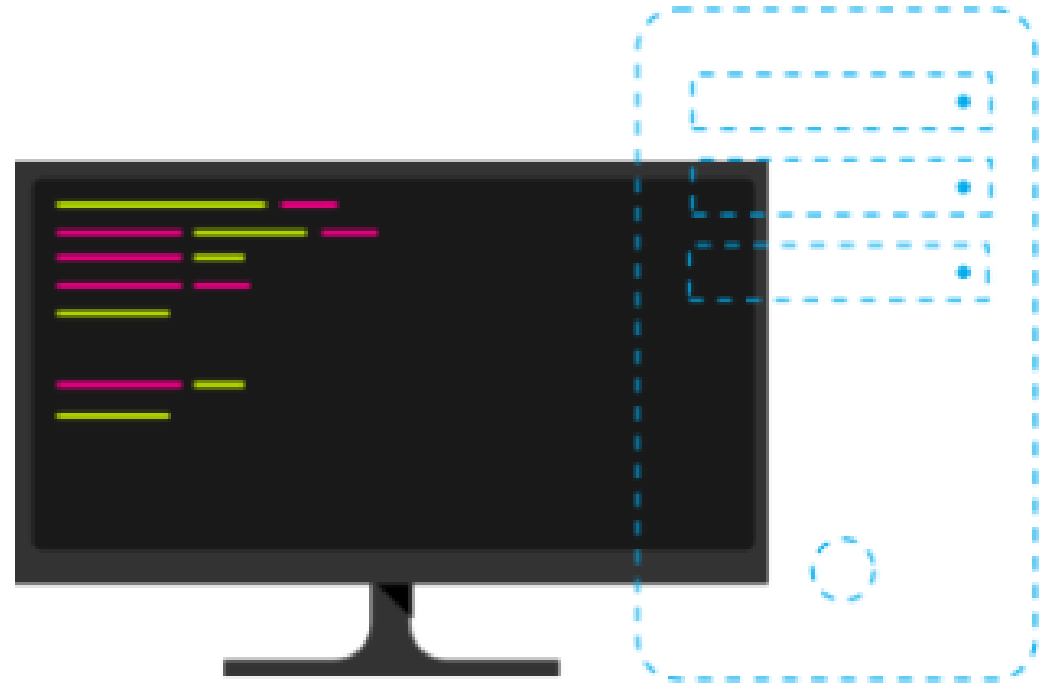
'서버리스 컴퓨팅' 뜬다... 개념에서 사용례까지

Angel Diaz | Network World

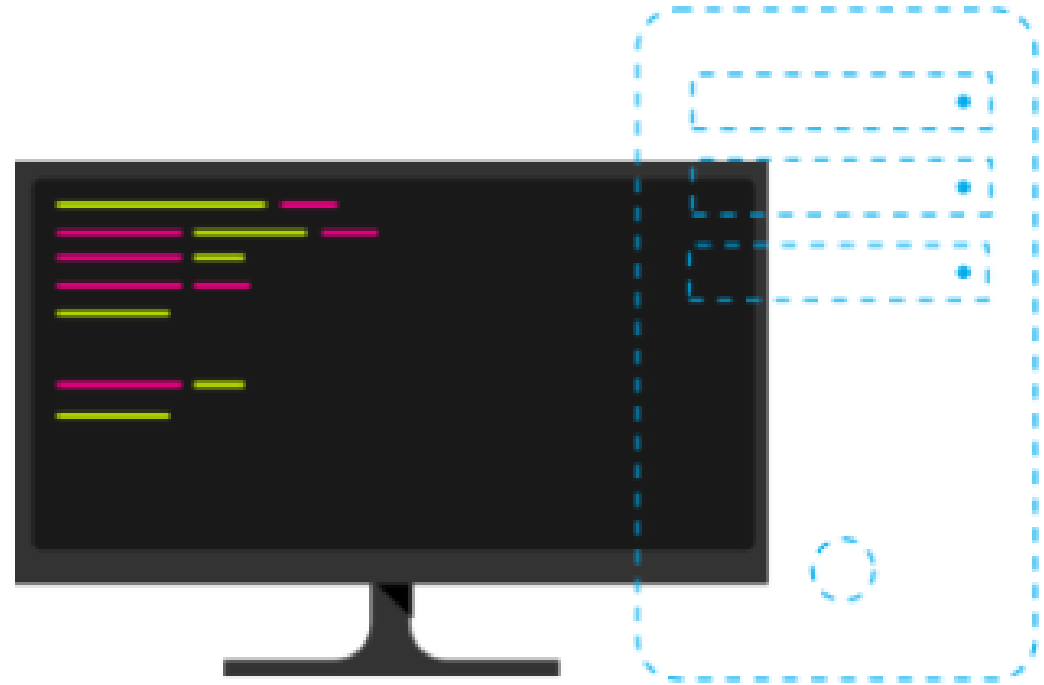
지금 업계가 서버리스(Serverless) 컴퓨팅으로 떠들썩하다. 전세계 곳곳에서 열리는 컨퍼런스, 동종 업계 관계자, 고객, 파트너들로부터 이런 '떠들썩함'을 확인하고 있다.

조직의 개발 및 혁신 노력에 큰 변화를 가져올 '서버리스 컴퓨팅'이라는 새 아키텍처에 대한 기대가 높다. 또 이런 기대가 꾸준히 높아지고 있는 추세이다.

What is Serverless?



Serverless != No Server



SERVERLESS COMPUTING

WHAT IS SERVERLESS



SERVICES ARE FULLY-ABSTRACTED

- **FOCUS ON YOUR APPS, NOT ON INFRASTRUCTURE**

Spare your teams the burden of managing servers. By utilizing fully managed services, you focus on your business logic and avoid administrative tasks.

With serverless architecture you simply deploy your code, and it runs with high availability.

SERVERLESS COMPUTING

WHAT IS SERVERLESS

EVENT DRIVEN SCALE SUB SECOND BILING

- ONLY PAY FOR RESOURCES YOU USE

With serverless architecture, you only pay for the time your code is running.

Serverless computing is event-driven, and resources are allocated as soon as they're triggered by an event.

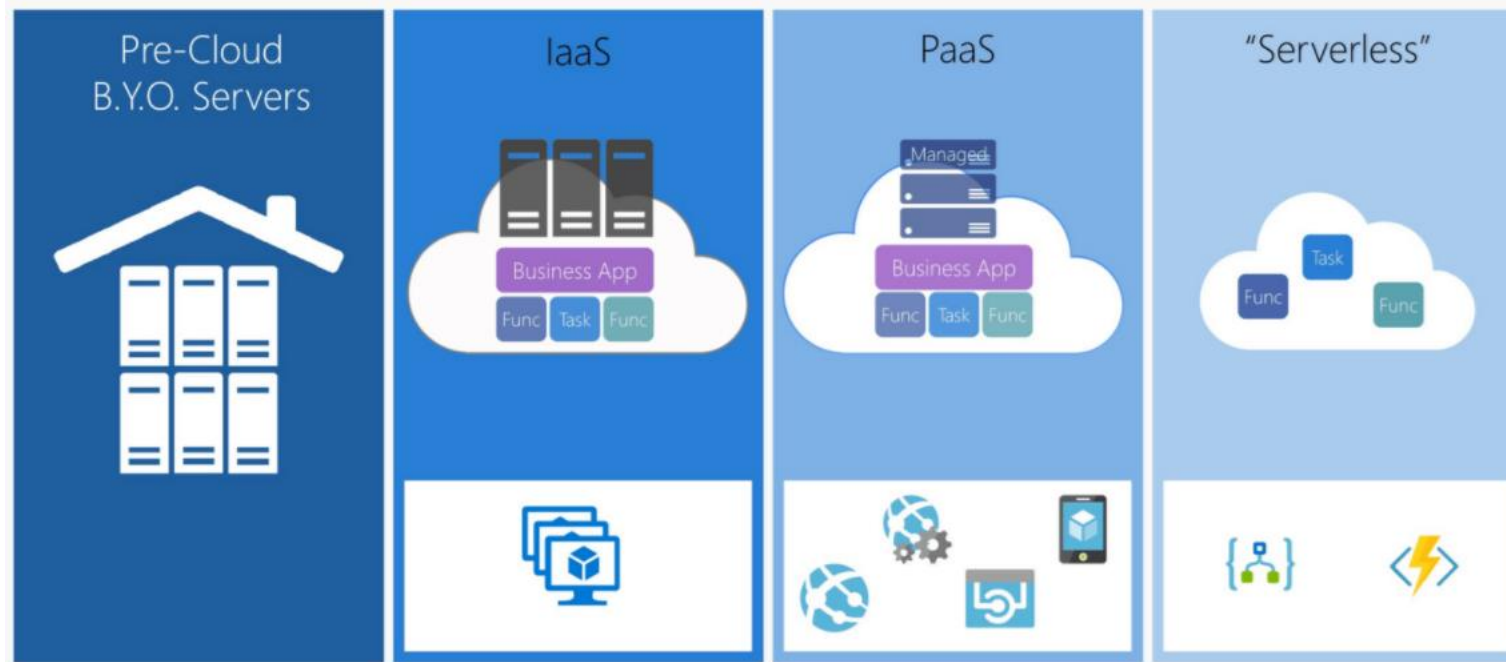
You're only charged for the time and resources it takes to execute your code



“Function as a Service”

FaaS is the concept of serverless computing via serverless architectures

“What is Function as a Service?(FaaS)”



“What is Function as a Service?(FaaS)”

Principles of FaaS:

- Complete abstraction of servers away from the developer
- Billing based on consumption and executions, not server instance sizes
- Services that are event-driven and instantaneously scalable

SERVERLESS COMPUTING

FUNCTION AS A SERVICE



**SERVERS ARE
FULLY-ABSTRACTED**



**EVENT DRIVEN SCALE
SUB SECOND BILING**



What is Azure function?

AZURE FUNCTIONS

FOCUS ON BUSINESS LOGIC NOT INFRASTRUCTURE



**FOCUS ON BUSINESS LOGIC
NOT INFRASTRUCTURE**



DEVVELOPE YOUR WAY

- 새로 만들기
- 대시보드
- 모든 리소스
- 리소스 그룹
- App Services
- SQL 데이터베이스
- Azure Cosmos DB
- 가상 컴퓨터
- 부하 분산 장치
- 저장소
- 가상 네트워크
- Azure Active Directory
- 모니터
- Advisor
- 보안 센터
- 비용 관리

검색

Azure Pass

함수 앱

evanTest2

함수

HttpTriggerJS2_lastTest

HttpTriggerJS2_py

HttpTriggerJS2_test

<다양한 언어와 환경 제공/>

- JavaScript, C#, Python, F# and scripting options such as PHP, Bash, Batch and PowerShell
- Write code in an easy-to-use web-based interface, or upload precompiled code built with your favorite development tool



미리 만들어진 함수로 빠르게 시작

1. 시나리오 선택

Webhook + API

타이머

데이터 처리

2. 언어 선택

☒ CSharp ☐ JavaScript ☐ FSharp ☐ Java

PowerShell, Python 및 Batch의 경우 사용자 고유의 사용자 지정 함수 만들기.

이 함수 만들기

또는

직접 만든 함수로 시작

사용자 지정 함수

소스 제어에서 시작

SERVERLESS COMPUTING

WHAT IS SERVERLESS



LOCAL DEVELOPMENT

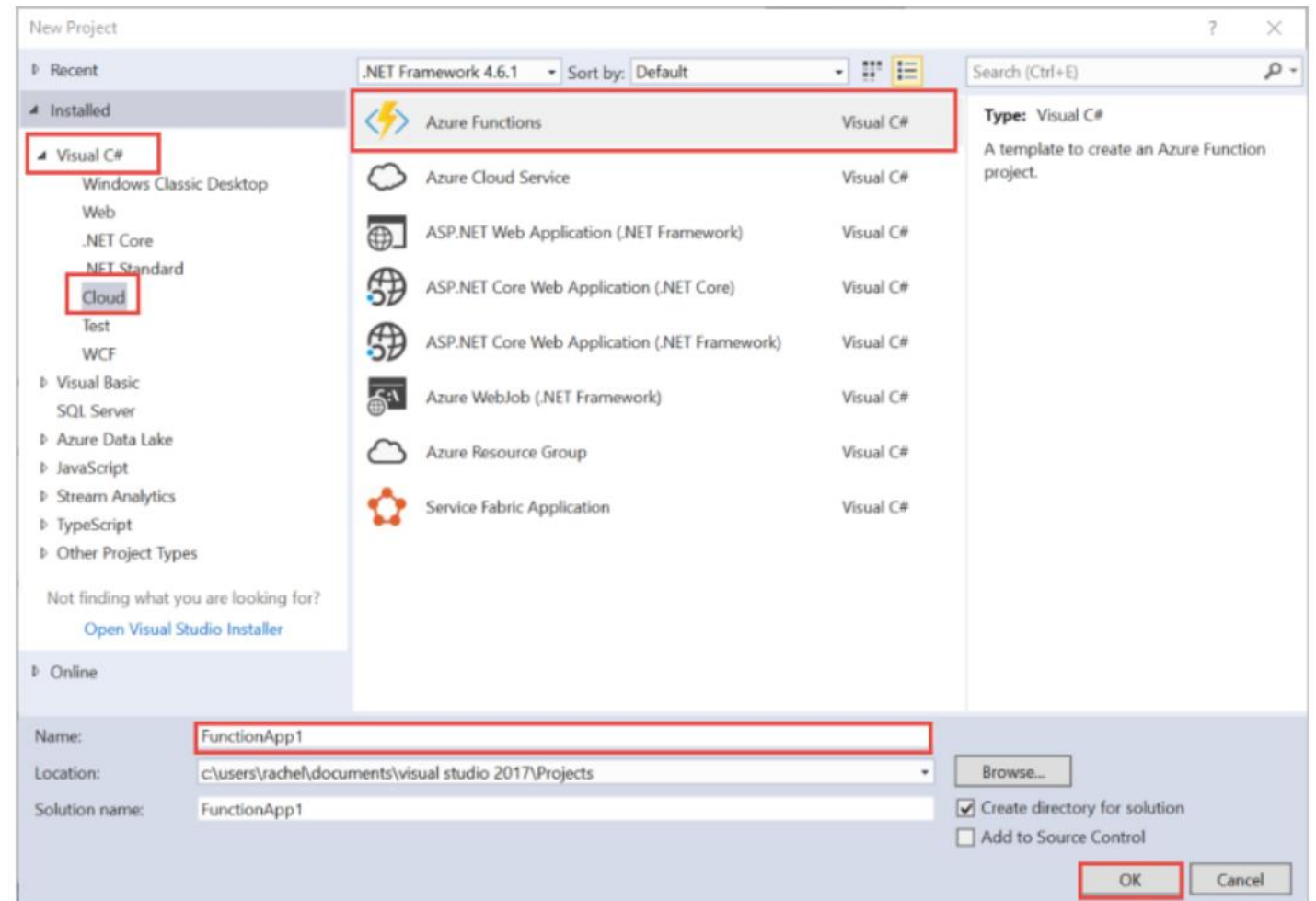
GitHub, visual studio team service

등의 지원 개발 도구 – 유연성 있는 개발 가능

AZURE FUNCTIONS

DEVELOPE YOUR WAY_VISUAL STUDIO

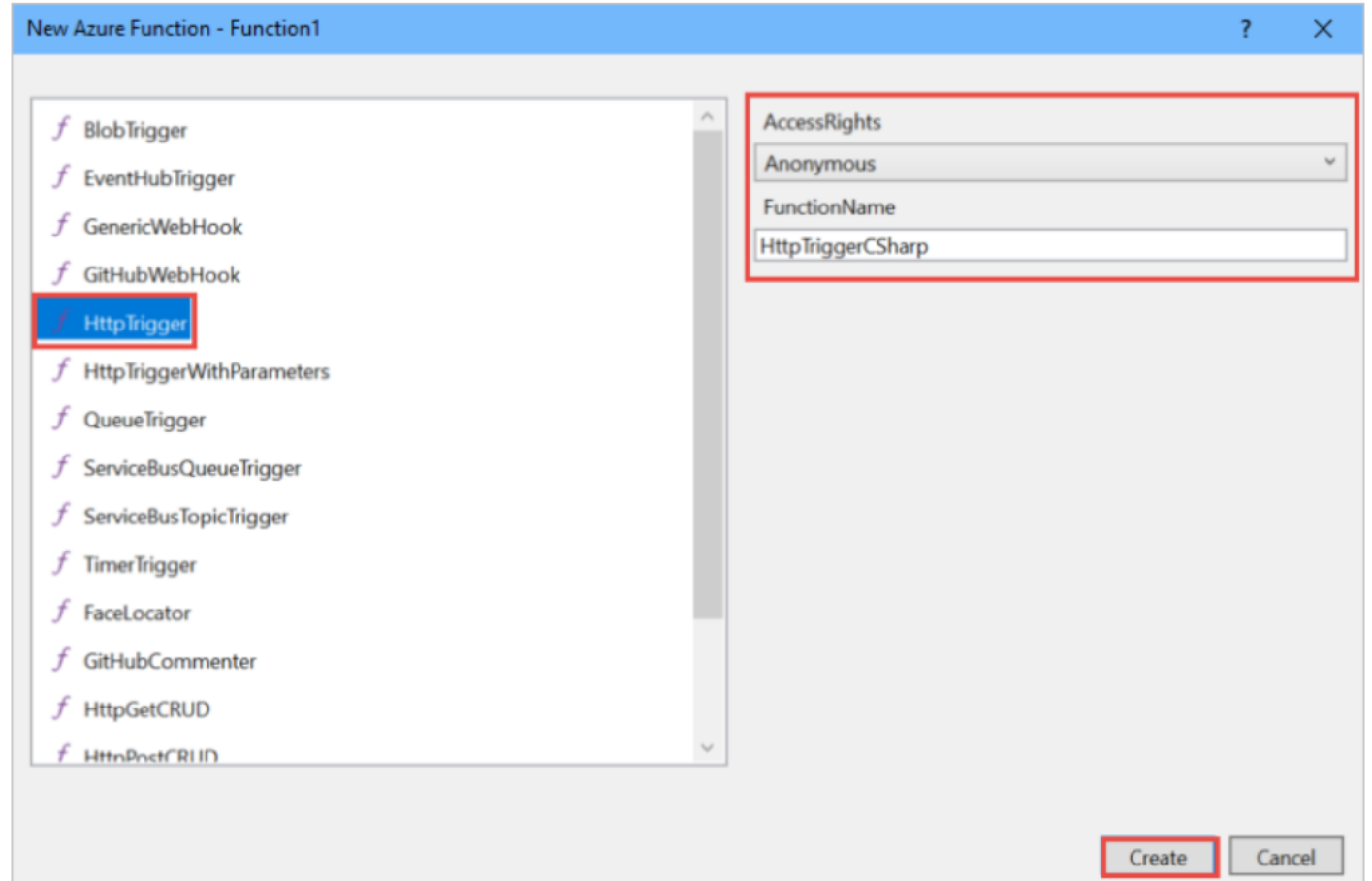
- VISUAL STUDIO 에서
AZURE FUNCTION
프로젝트 만들기



AZURE FUNCTIONS

DEVELOPE YOUR WAY_VISUAL STUDIO

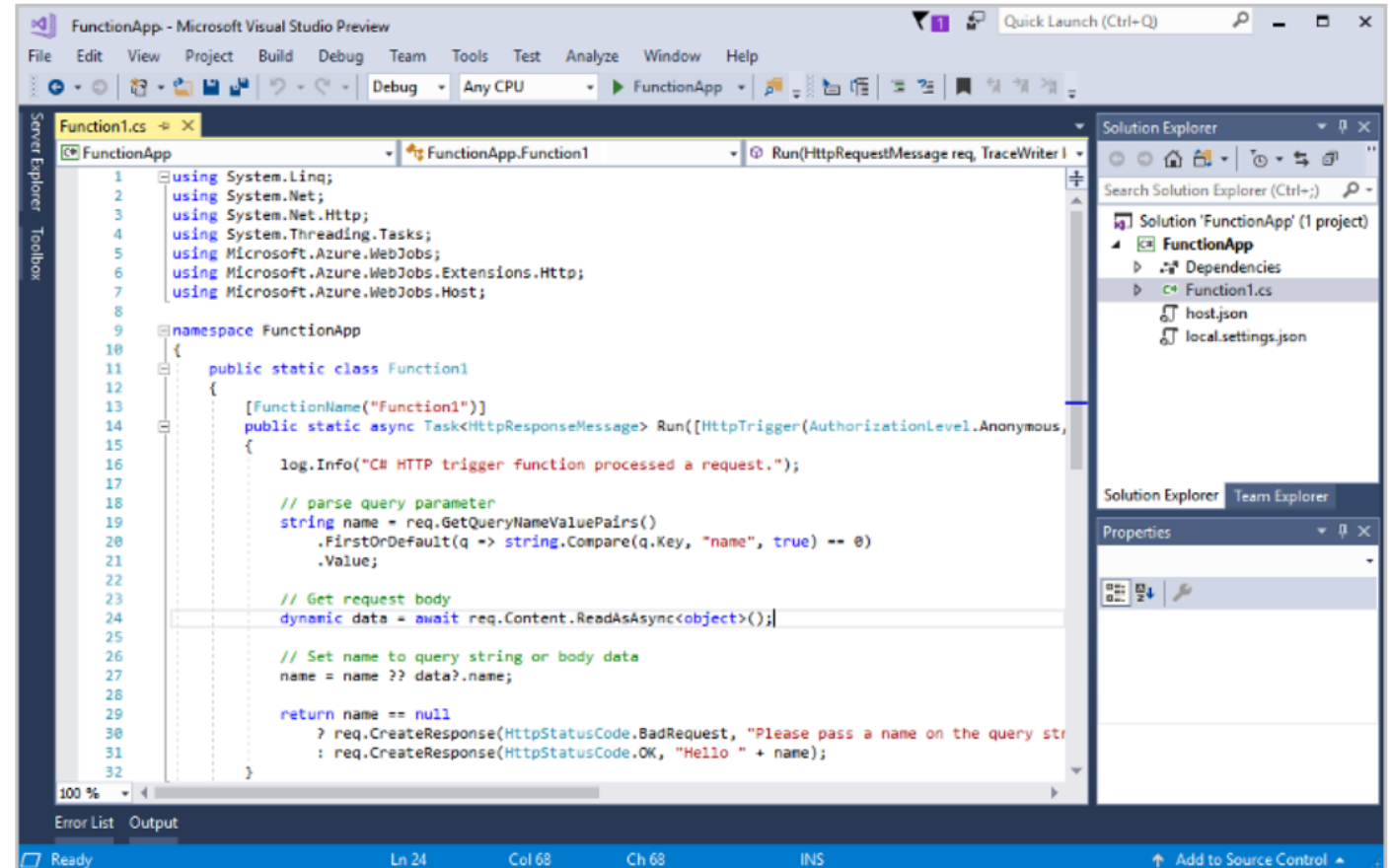
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AZURE FUNCTIONS

DEVELOPE YOUR WAY_VISUAL STUDIO

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SERVERLESS COMPUTING

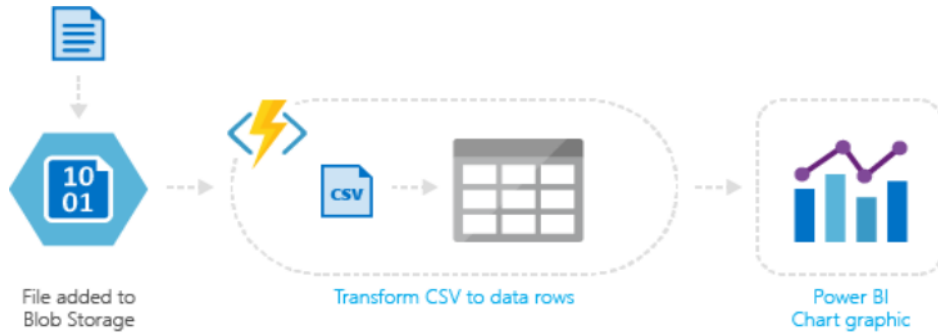
WHAT IS SERVERLESS



BIND INTO SERVICE

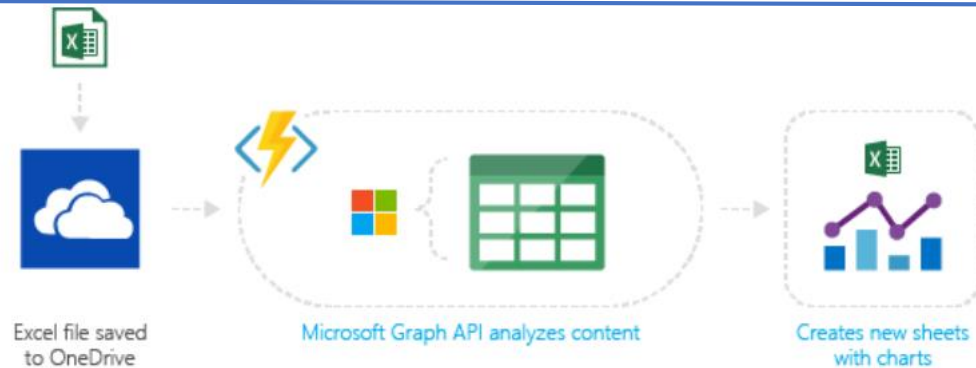
AZURE FUNCTIONS

BIND INTO SERVICE_EXAMPLES



AZURE SERVICE EVENT PROCESSING

TIMER BASED PROCESSING



SaaS EVENT PROCESSING

EXAMPLE

WEB CROLLING WITH AZURE FUNCTIONS





코드 실행이 아주 많이 쉬워질 예정

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