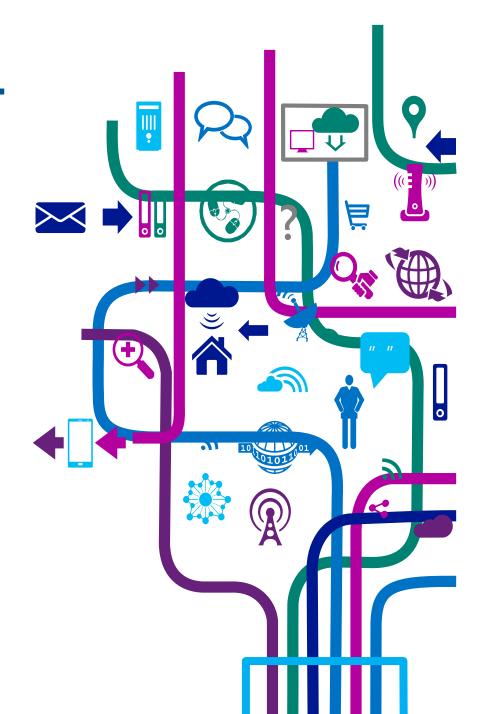
엄청난 트래픽을 막아본 두 남자의 이야기

김영욱 부장/ Microsoft

youngwook@outlook.com Blog: Youngwook.com



Platform Services

Security & Management



















Compute







Web and Mobile







لوا





Developer Services



Visual Studio





Application Insights





Hybrid

Operations

Azure AD
Connect Healt













StorSimple

Integration









Service Bus

Media & CDN



Media Services

= .



Analytics & IoT



Data Factory

Stream Analytics



Machine Learning





Mobile Engagement

≡|.

Data



SQL Database





DocumentDB



Search



Tables

Infrastructure Services

Compute

= .



= .



≡.

Storage



= | •

Azure Files

= .



≡ .

Virtual Network





■ .



■.



Networking



= .







= .

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≡ .

Datacenter Infrastructure (24 Regions, 19 Online)

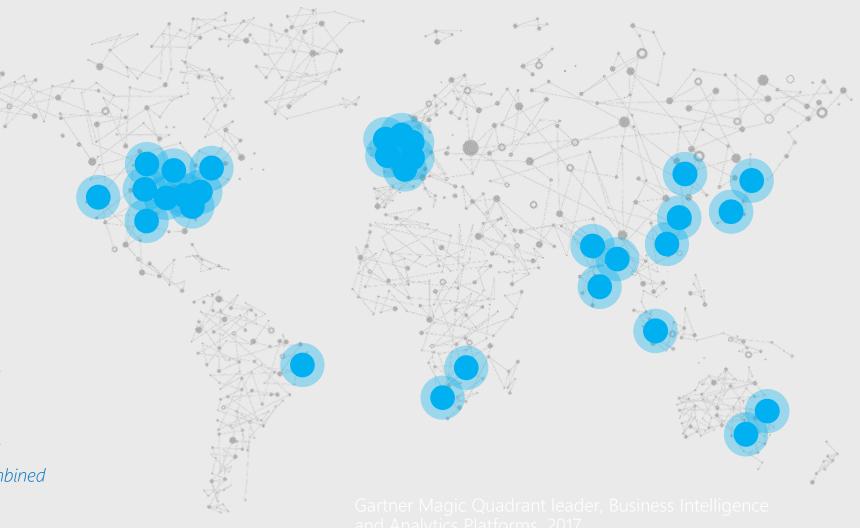
■.

Microsoft Azure is the leading hyperscale cloud

54
Azure regions around the world

AZURE REGIONS

More than AWS and Google Cloud combined











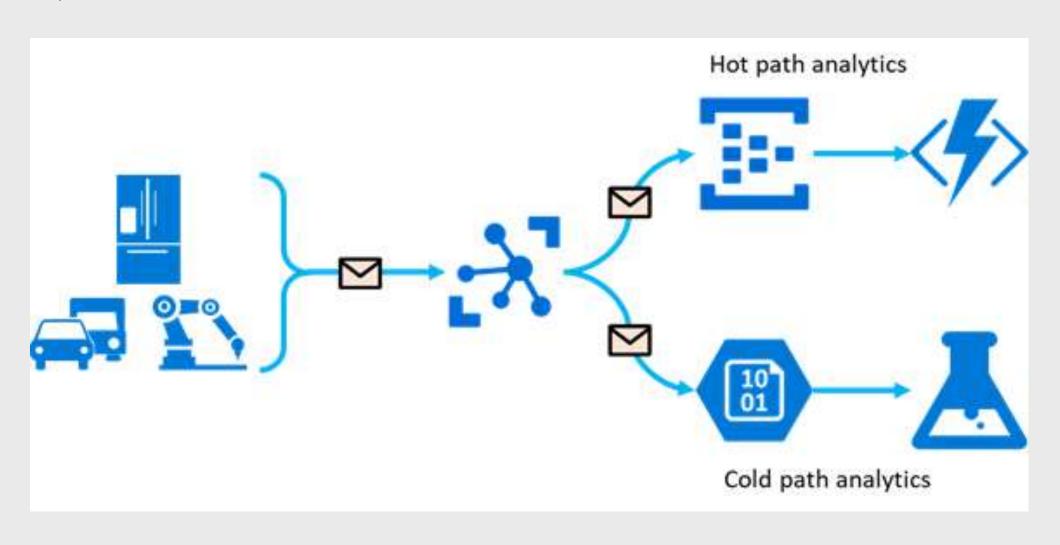
Microsoft Azure IoT services

Devices	Device Connectivity		Storage		Analytics		Presentation & Action	
	Œ	Event Hubs	SQL	SQL Database	I	Machine Learning	©	App Service
	₽	Service Bus		Table/Blob Storage	***	Stream Analytics	B 3	Power Bl
		External Data Sources	{}	DocumentDB	(A)	HDInsight	(II)	Notification Hubs
				External Data Sources	<u></u>	Data Factory	P	Mobile Services
								BizTalk Services

IoT Hub

무제한 접속!

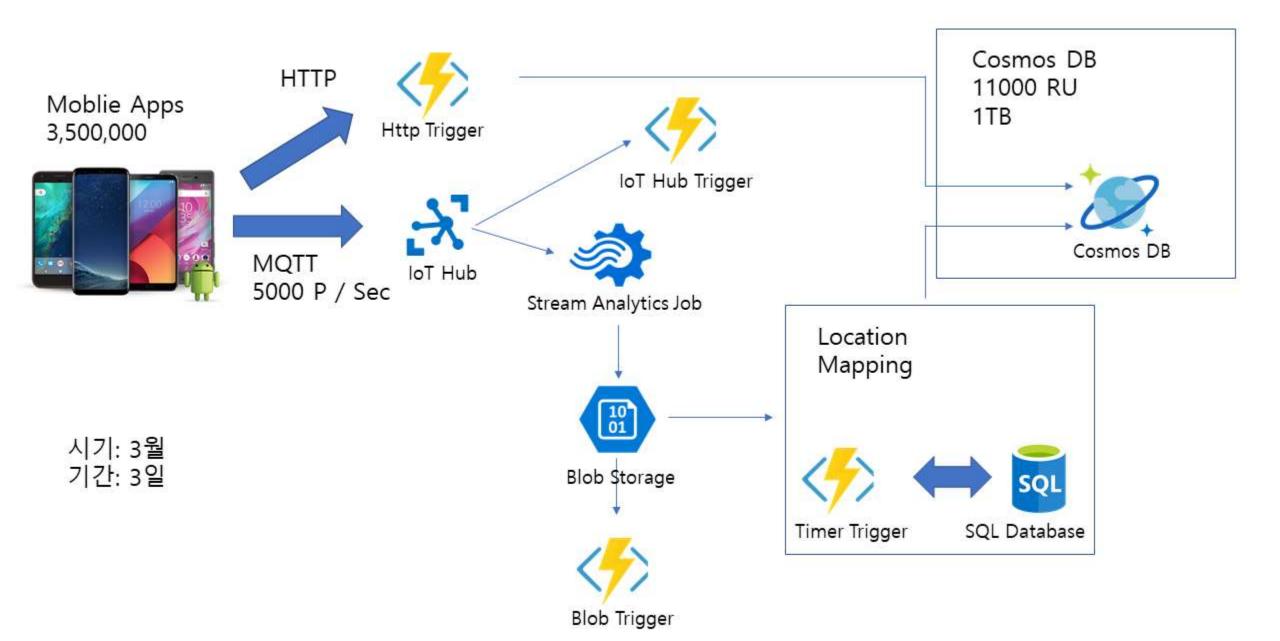
https://azure.microsoft.com/ko-kr/services/iot-hub/



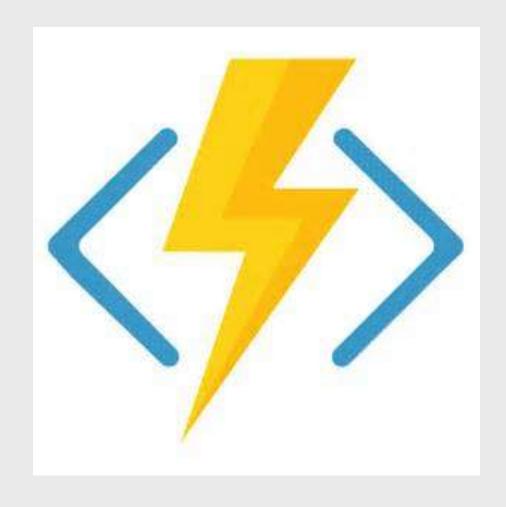
IoT Hub

https://azure.microsoft.com/ko-kr/services/iot-hub/

MQTT vs AMQP

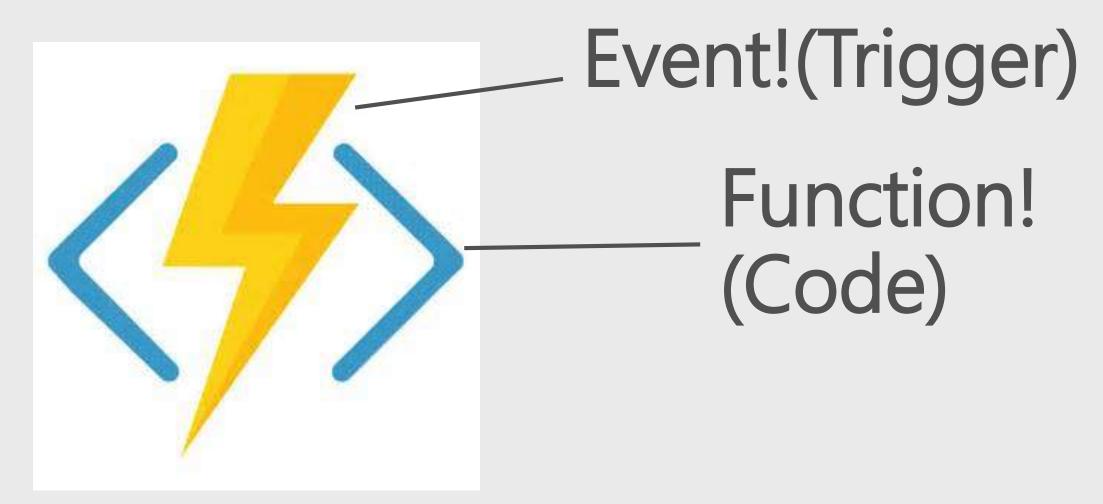


https://azure.microsoft.com/ko-kr/services/functions/



Serverless Function Micro-service

https://azure.microsoft.com/ko-kr/services/functions/



https://azure.microsoft.com/ko-kr/services/functions/



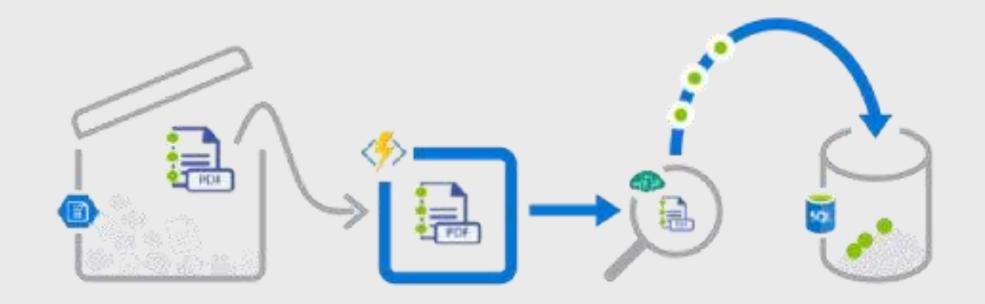
Request made in a web app

Request queued in Service Bus

A function processes the request...

..sends output to Cosmos DB

https://azure.microsoft.com/ko-kr/services/functions/

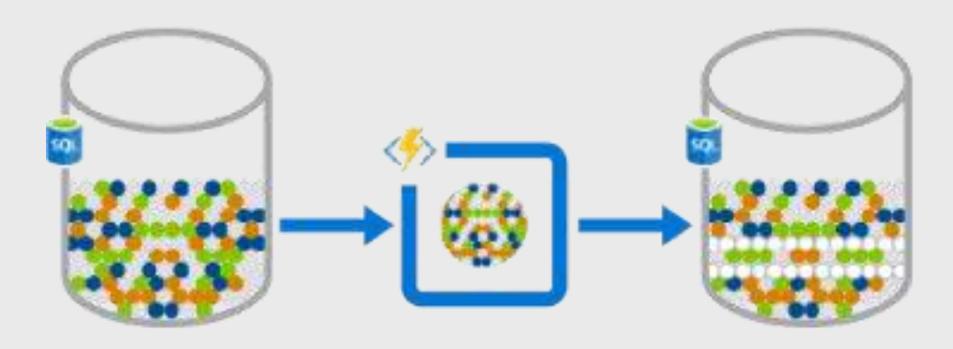


PDF file added to Blob Storage

A function decomposes PDF file... ...and sends it to Cognitive Services for OCR detection

Structured data from file sent to SQL DB

https://azure.microsoft.com/ko-kr/services/functions/

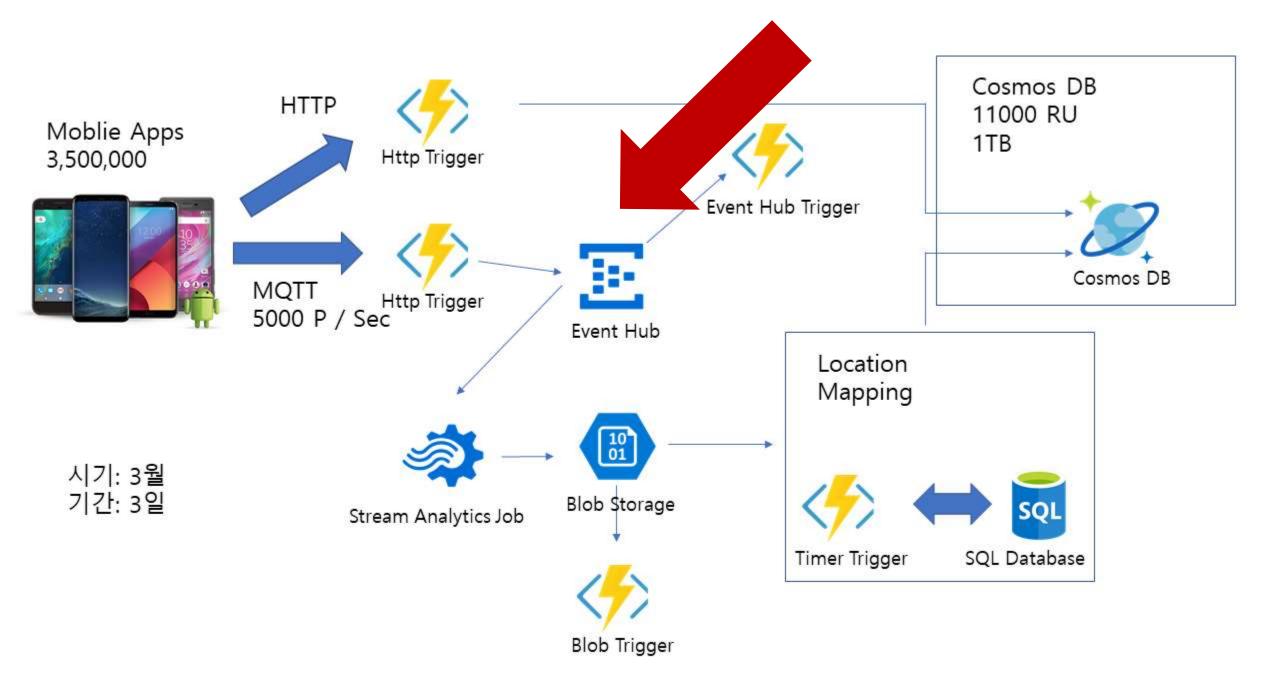


A function cleans a database every 15 minutes... ...deduplicating entries based on business logic

버전 유형	단 		메시지 측정 크기
무료		8,000	0.5 KB
S1	₩28 .25	400,000	4 KB
S2		6,000,000	4 KB
S3	%25	300,000,000	4 KB

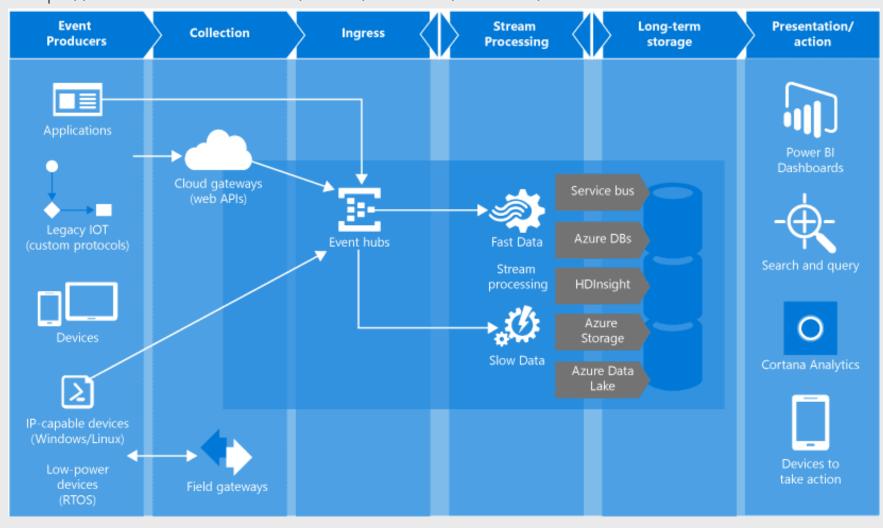
rent Hub

Azure Event Hubs

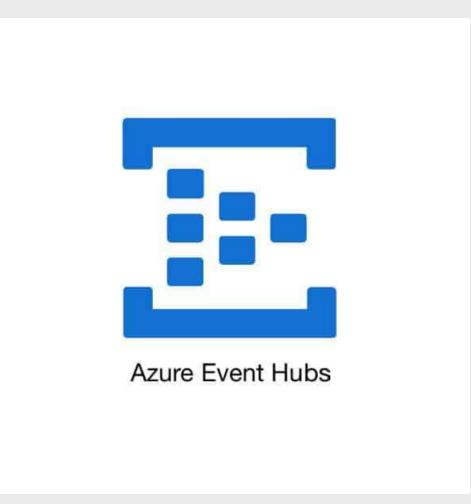


Event Hubs

https://azure.microsoft.com/ko-kr/services/iot-hub/



Event Hubs



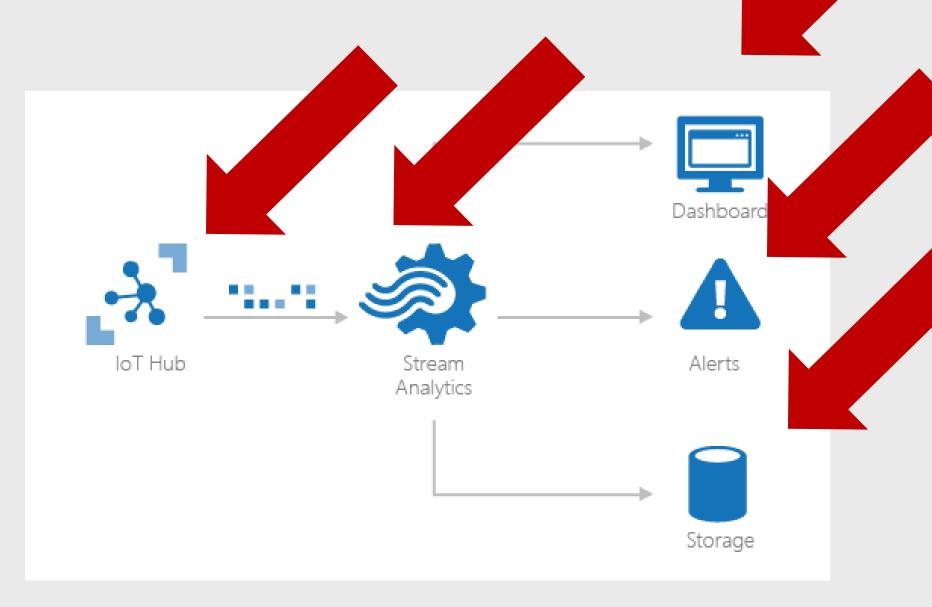
Telemetry 초당 1000개 * 10

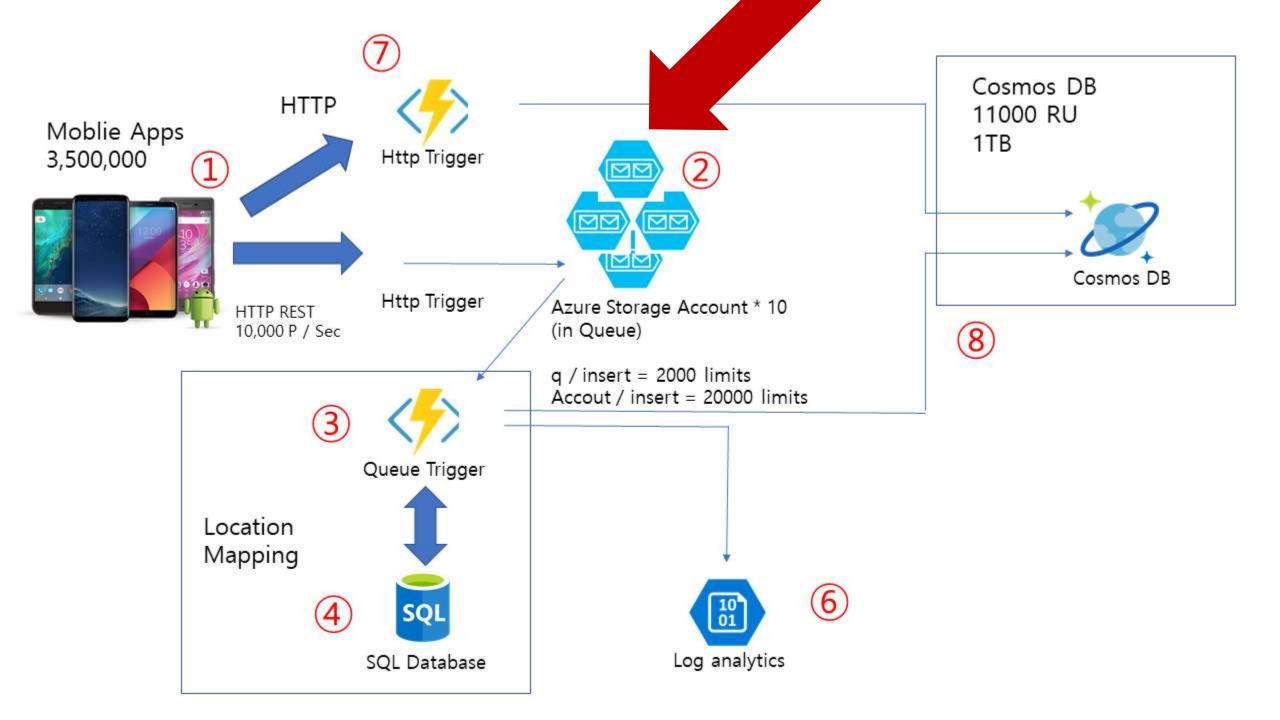


Data 2 X Z

Stream Analytics Job

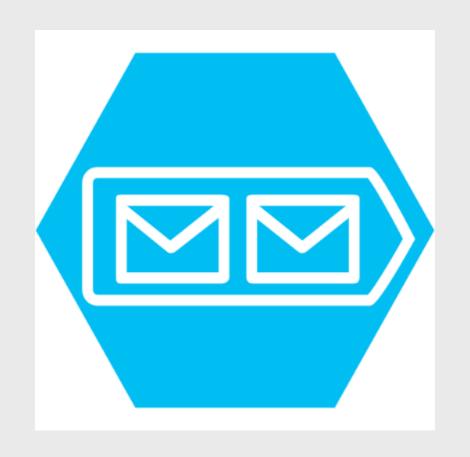




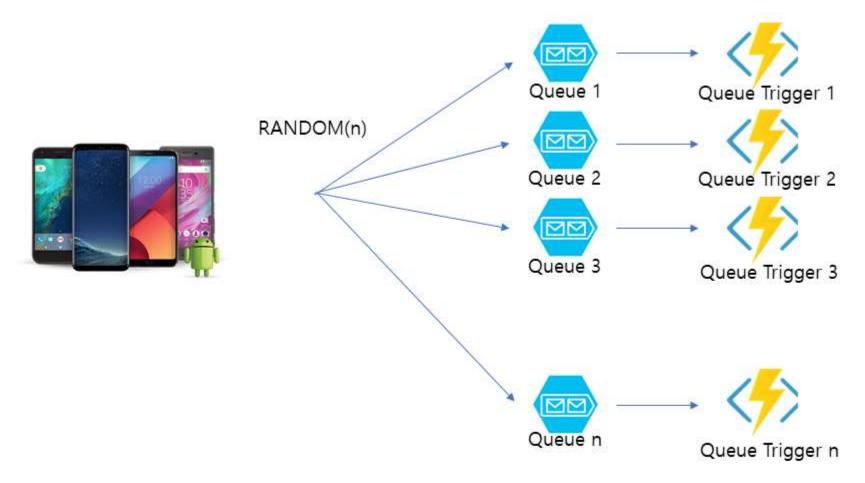


버전 유형	단 		메시지 측정 크기
무료		8,000	0.5 KB
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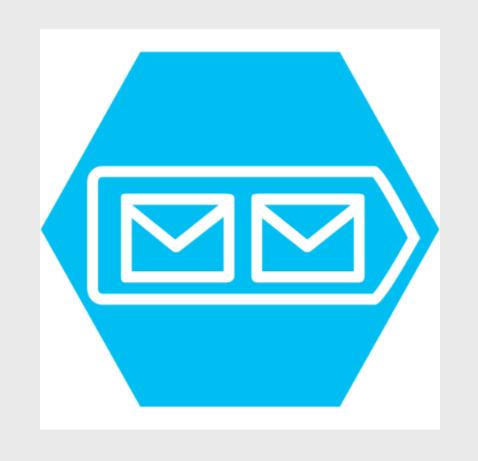
Storage Queue



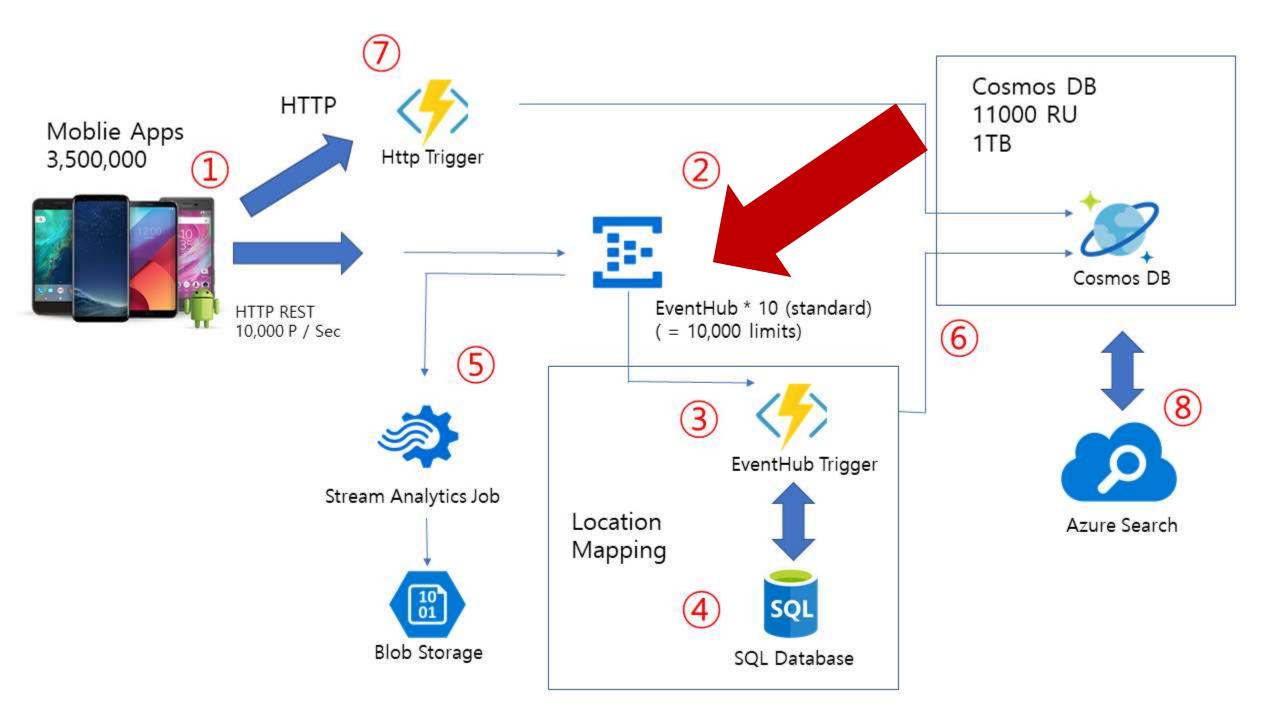
무지싸다! 초당 2000개 * 10 Random의 마법



Storage Queue

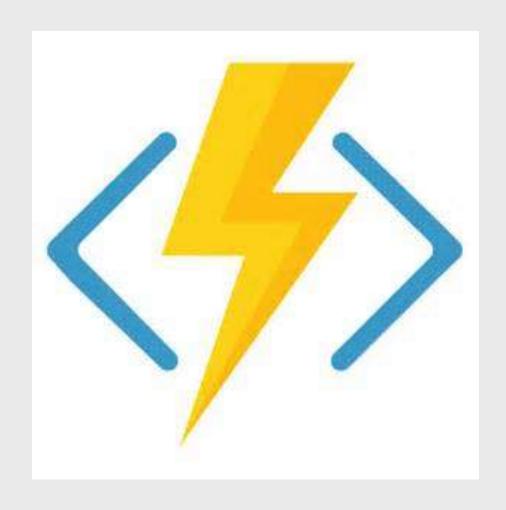


관리포인트의 증가 비정상적인 트레픽 쏠림에 대한 확신이 없음



Azure Functions의 두 가지 운영방법

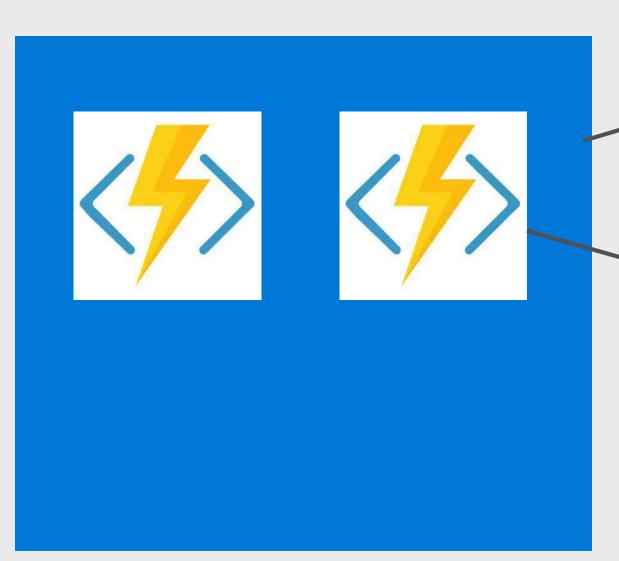
https://azure.microsoft.com/ko-kr/services/functions/



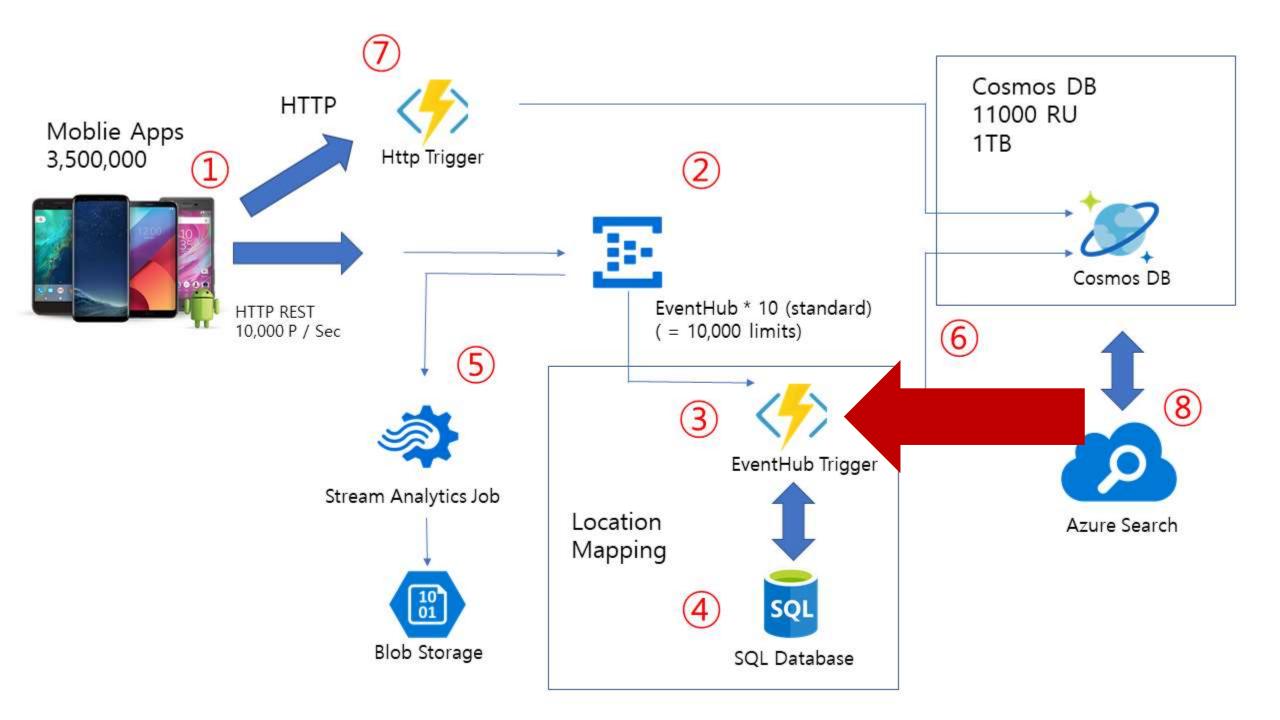
consumption plan Web app plan

Azure Functions의 두 가지 운영방법

https://azure.microsoft.com/ko-kr/services/functions/

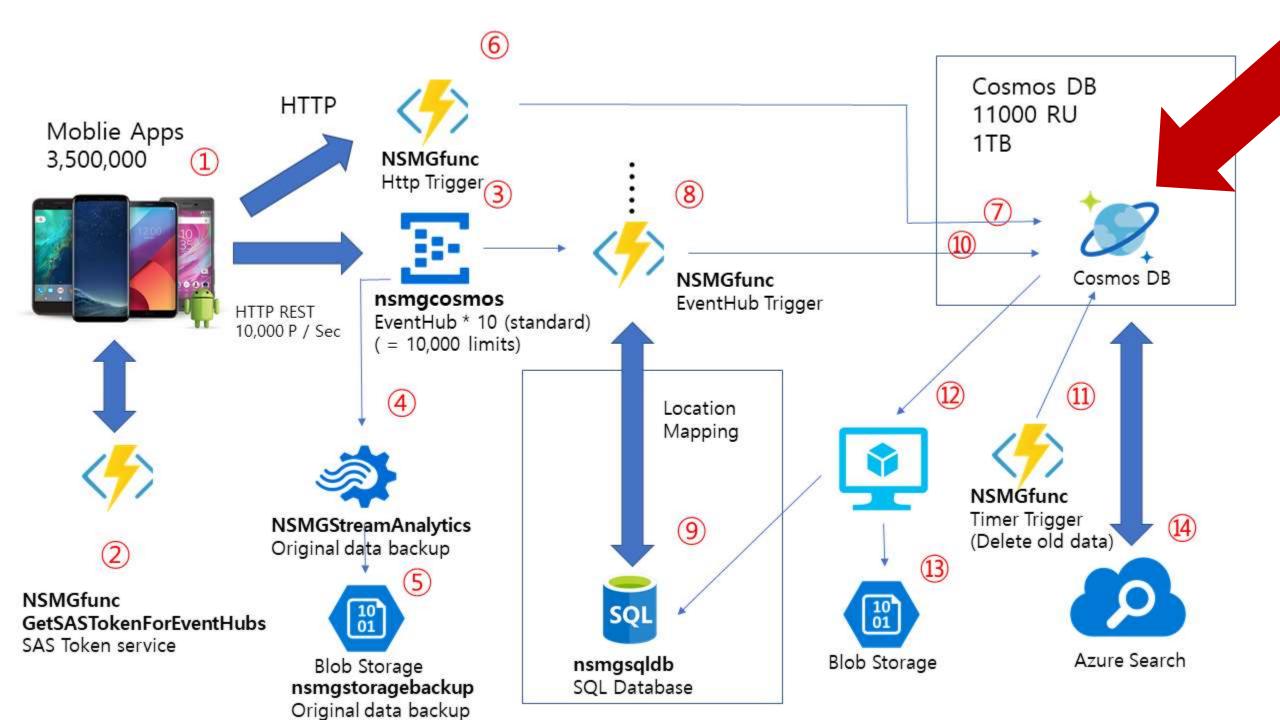


-Web app plan
Web app or
Functions



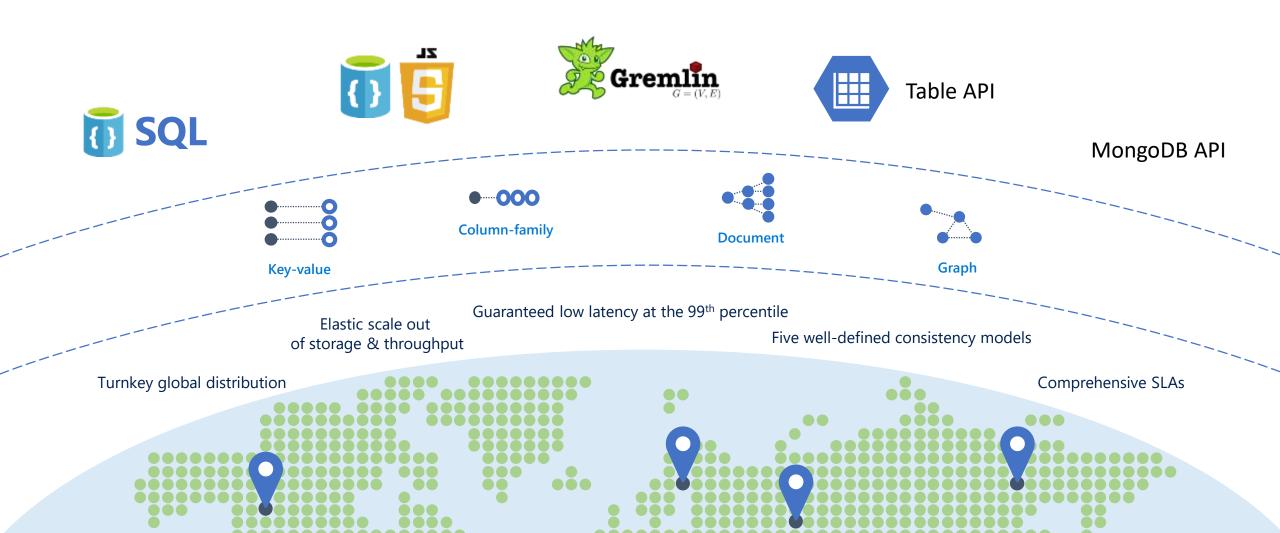
The Last Version!!

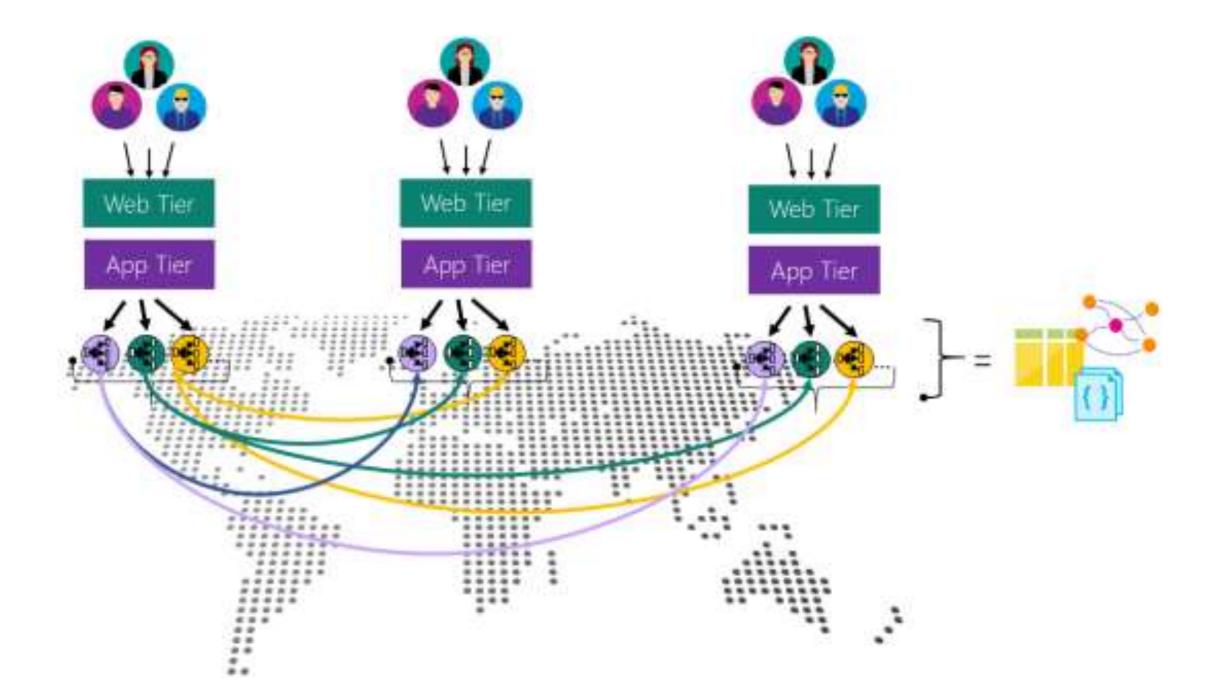






A globally distributed, massively scalable, multi-model database service





Cosmos DB



RU Storage Size Replications

