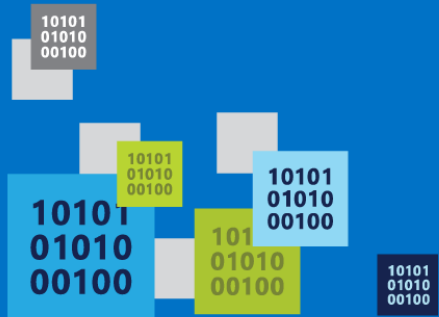


앱 서비스 – 웹 앱

Dae Woo Kim (daewoo.kim@)
Technology Evangelist
Microsoft Korea



Agenda

- 웹앱 생성
- 지원 언어
- 배포
- Source Control 통합
- 크기조절
- Web Jobs
- Site Slots
- Traffic Manager
- Backup
- Hybrid Connections
- Redis Cache

Azure 앱 서비스

Azure 앱 서비스

클라우드 어플리케이션 개발과 크기조절



=



Web Apps



Mobile Apps



Logic Apps



API Apps

앱 서비스 – 하나의 통합된 플랫폼



Web Apps

Web apps that scale
with your business



Mobile Apps

Build Mobile apps
for any device



LOGIC Apps

Automate business process
across SaaS and on-premises



API Apps

Easily build and consume
APIs in the cloud

다양한 언어로 개발

.NET | Node.js | PHP | Python | Java

Microsoft Azure

Users



Azure App Service

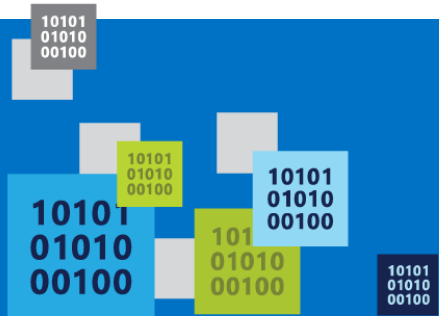


Developer



앱 서비스 혜택

- 자동화된 OS 업데이트
- Enterprise 급 보안
- 고가용성
 - 자동화된 크기조절(scale out/in)
 - 부하분산 기능 포함
- 다양한 언어와 플랫폼 지원
 - .NET, Node.js, Python, Ruby and many more
- 쉬운 연속 배포(continuous deployment)
 - Github 등을 통한 연속배포 지원
 - Git repo 기본 포함





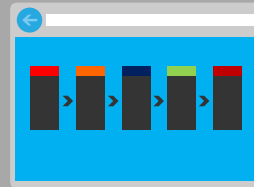
Web Apps



Customer site



Logic Apps



Order Completed



Mobile Apps



Administration App



Customer App



API Apps



http

SQL

웹 앱

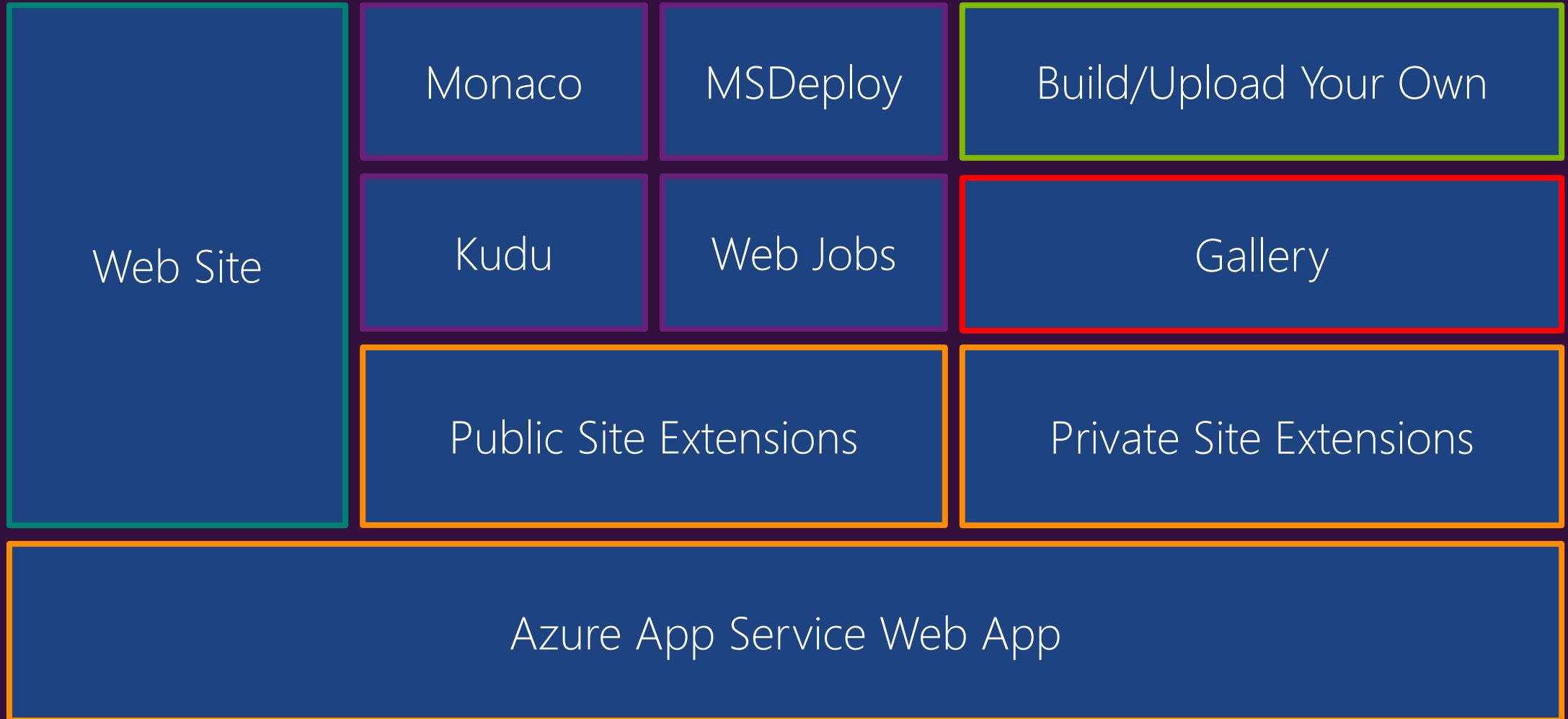


WEB APPS

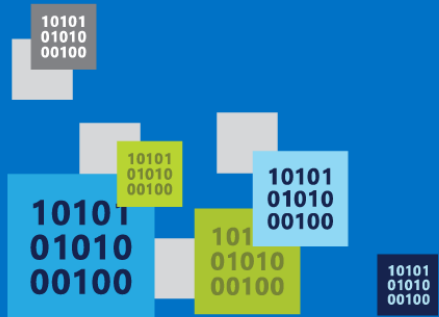
코드 변경 없이 실행

지원하는 기능들:

- .NET, Node.js, Java, PHP, and Python
- WebJobs – 일반적인 배치 작업 수행
- Integrated VS 게시(publish), 원격 디버깅(remote debug)...
- CI with GitHub, BitBucket, VSO
- Auto-load balance, Autoscale, Geo DR
- 가상네트워크 및 하이브리드 연결 지원
- Stage slot 제공

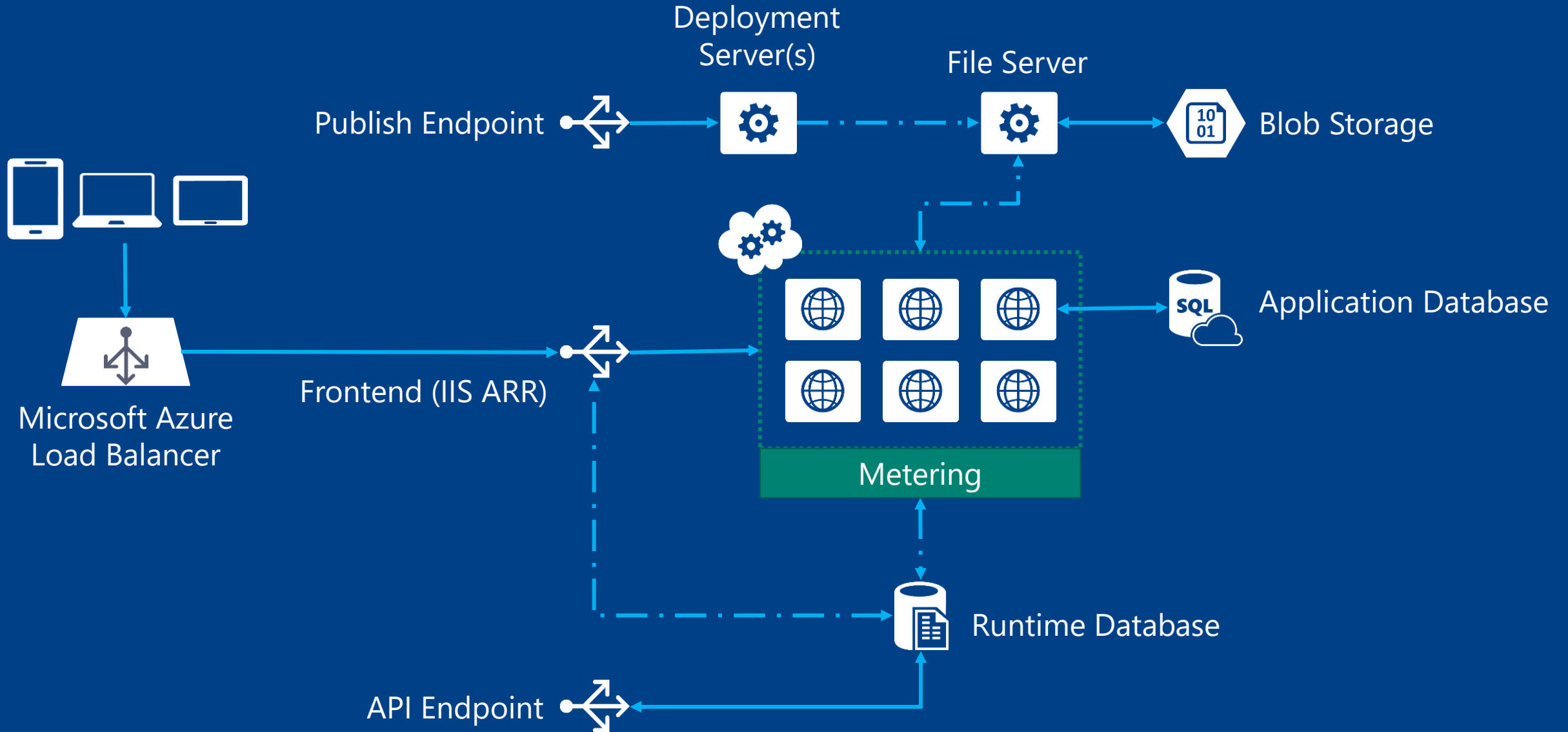


Demo: 웹앱 생성

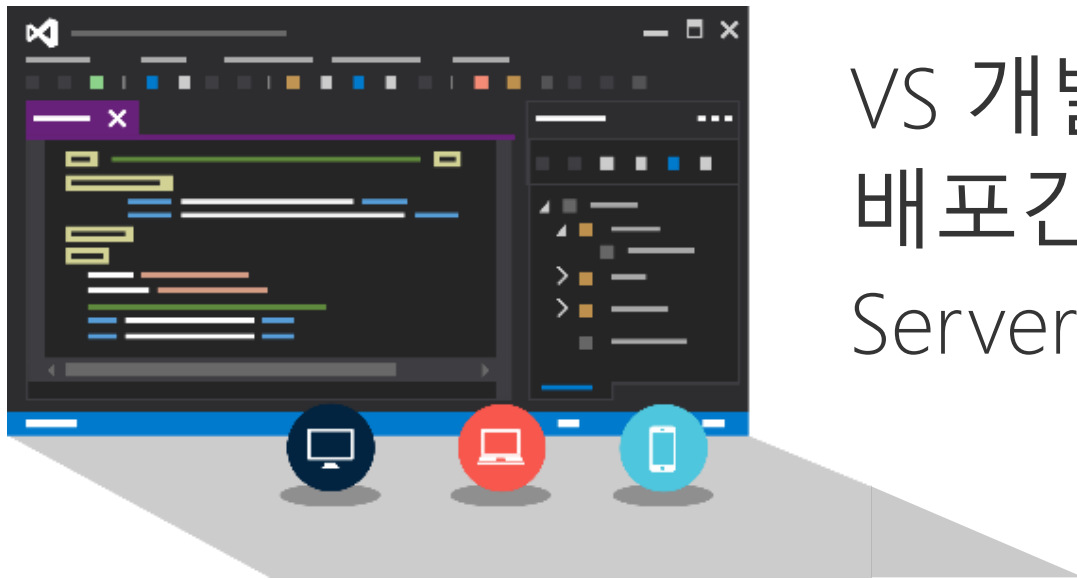


앱서비스 웹앱 아키텍처

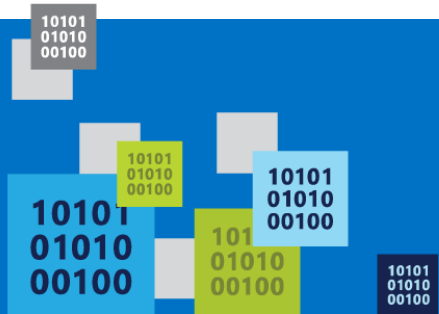
Microsoft Azure



Visual Studio + 앱 서비스 웹앱



VS 개발 환경과 통합
배포간 생성 지원
Server Explorer를 이용한 관리



WebJobs

일반적인 배치 작업 수행



run.cmd, run.bat



run.exe



run.ps1



run.sh



run.php



run.py



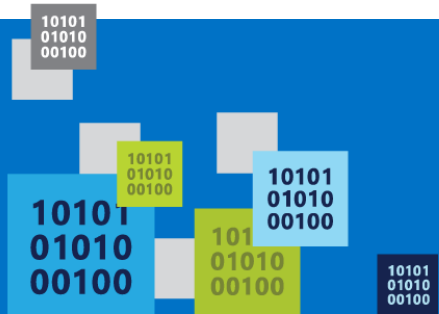
run.js

Job Type: On-Demand, Scheduled, Continuous

Scale: Singleton, Multi-instance

WebJobs SDK Feature: BlobTrigger, TableTrigger, QueueTrigger, ServicebusTrigger

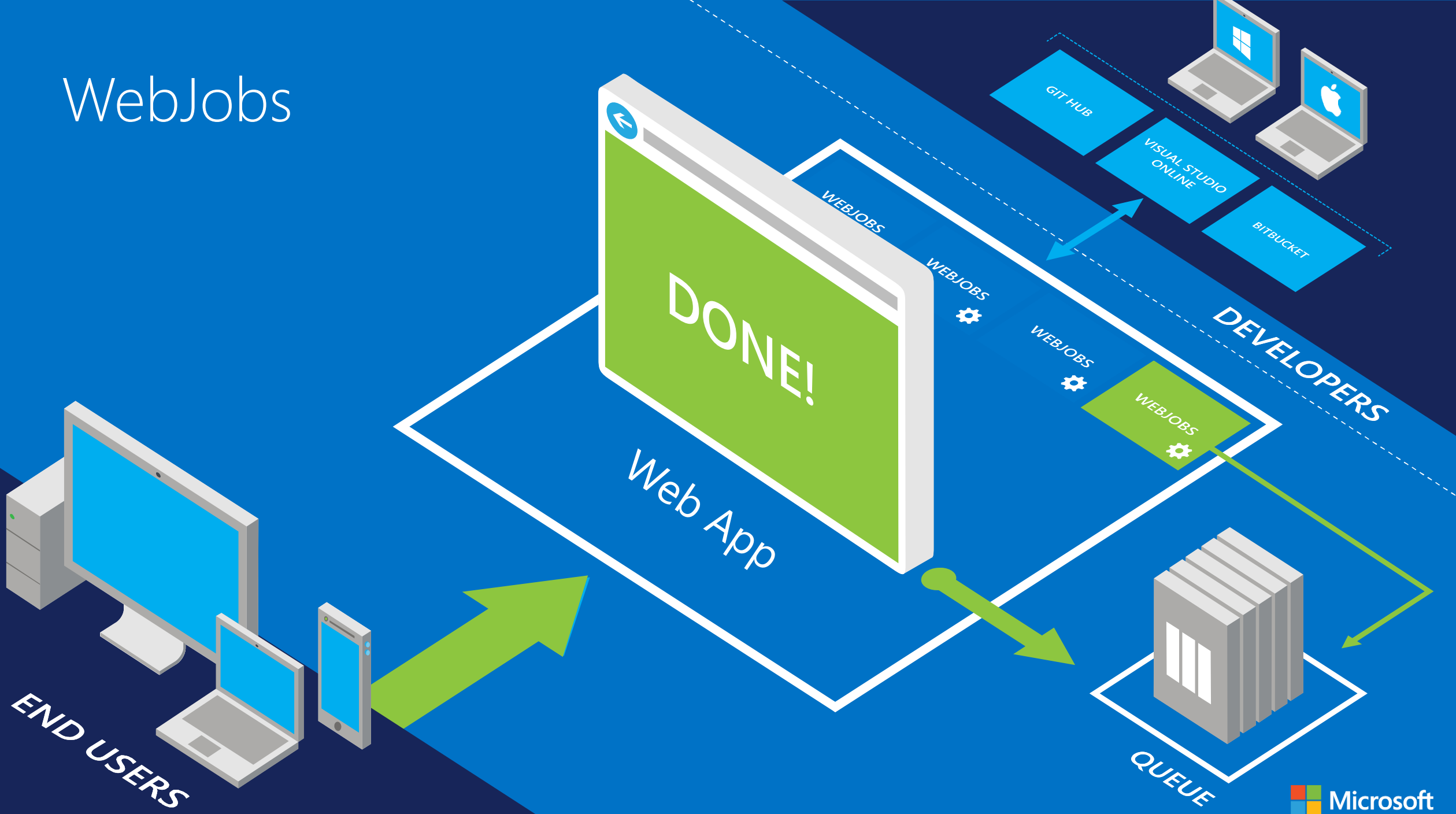
Deployment: Portal, Visual Studio, CLI, Git



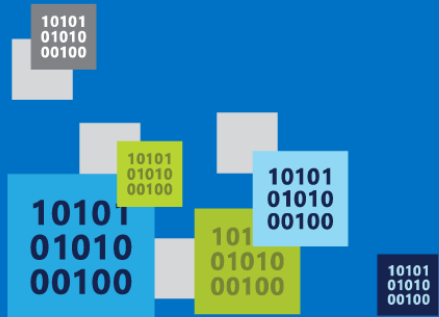
WebJobs



WebJobs



Demo: WebJobs



API 앱

손쉬운 클라우드 기반 API 서비스 개발



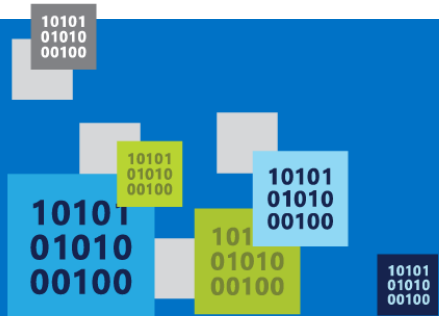
API APPS

API 서비스를 손쉽게 생성하고
제공 가능한 앱 서비스

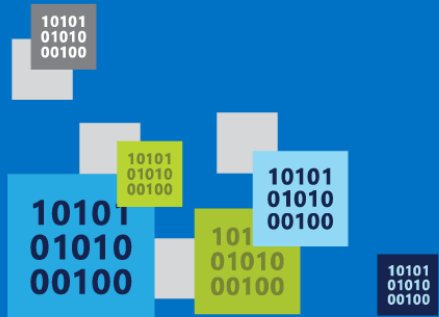
- API 서비스를 위한 다양한 확장 기능 내장
- 사용자 정의 또는 재사용 가능한 API 생성 및 게시
- VS의 도구를 이용한 게시 및 디버깅
- 다양한 언어를 지원하는 자동화된 클라이언트 SDK 지원

API 앱 혜택

- 개발한 API 서비스를 그대로 활용
 - .NET Web API
 - Node.js + Express
 - Java
 - PHP
 - Many other technologies

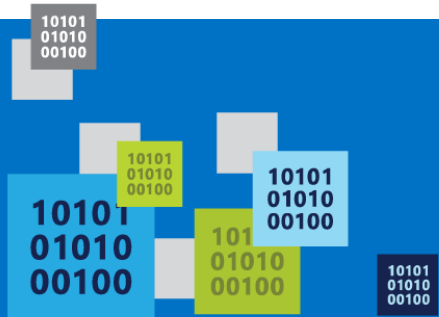


Demo: API 앱 생성

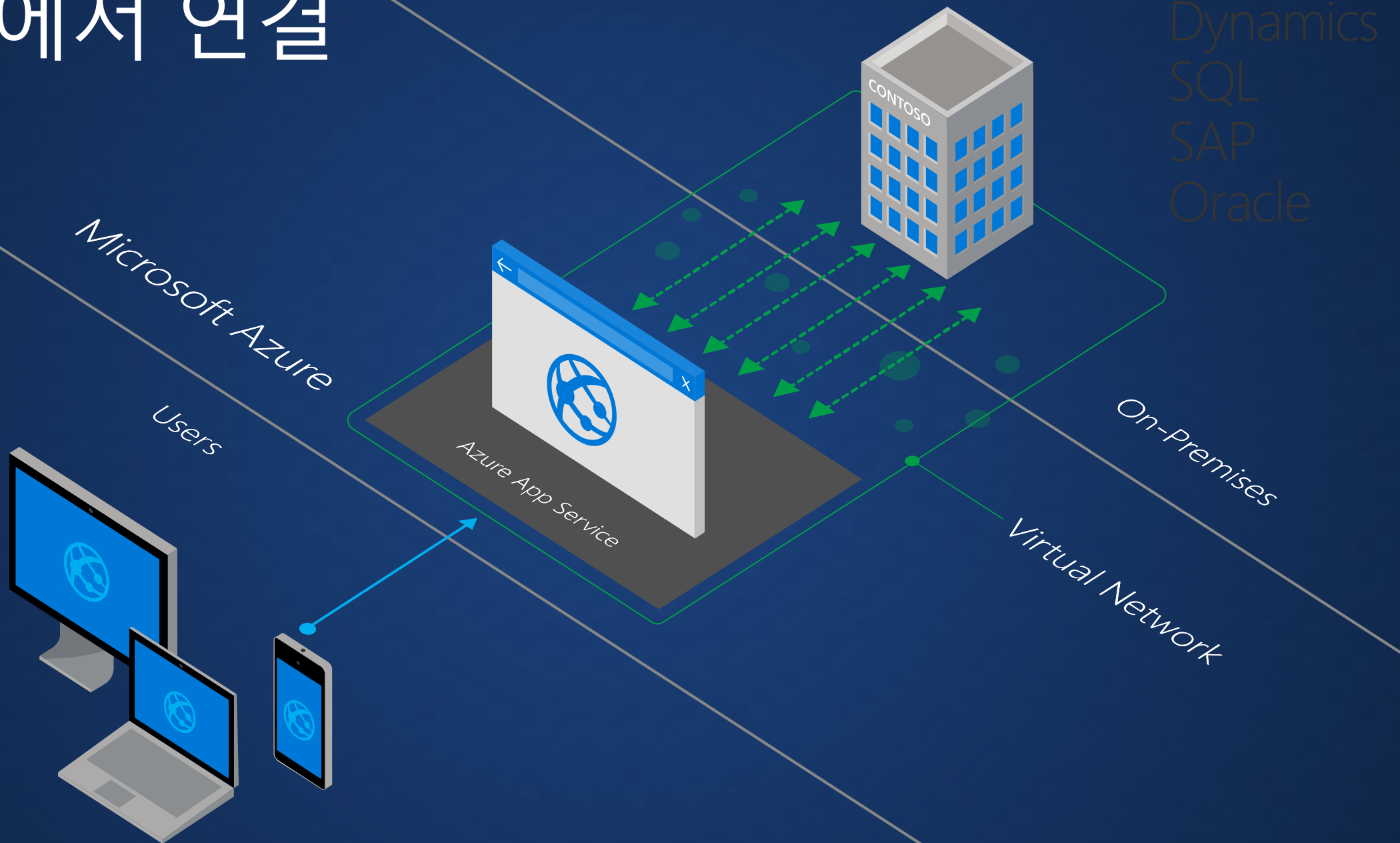


API 앱 제공

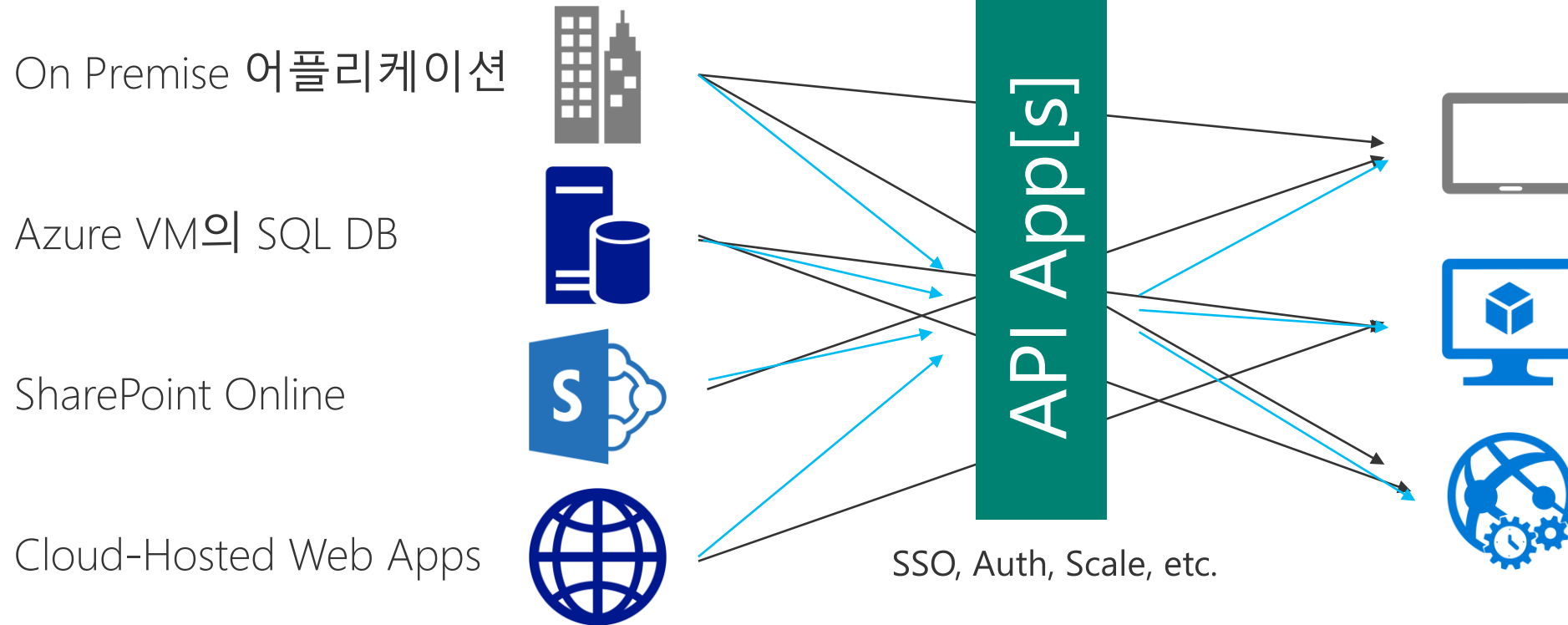
- HTTP 서비스로 API를 노출
- Metadata를 Swagger 2.0 으로 노출
 - JSON 파일
- 클라이언트 SDK



기업에서 연결



Managed Middle Tier



손쉬운 통합

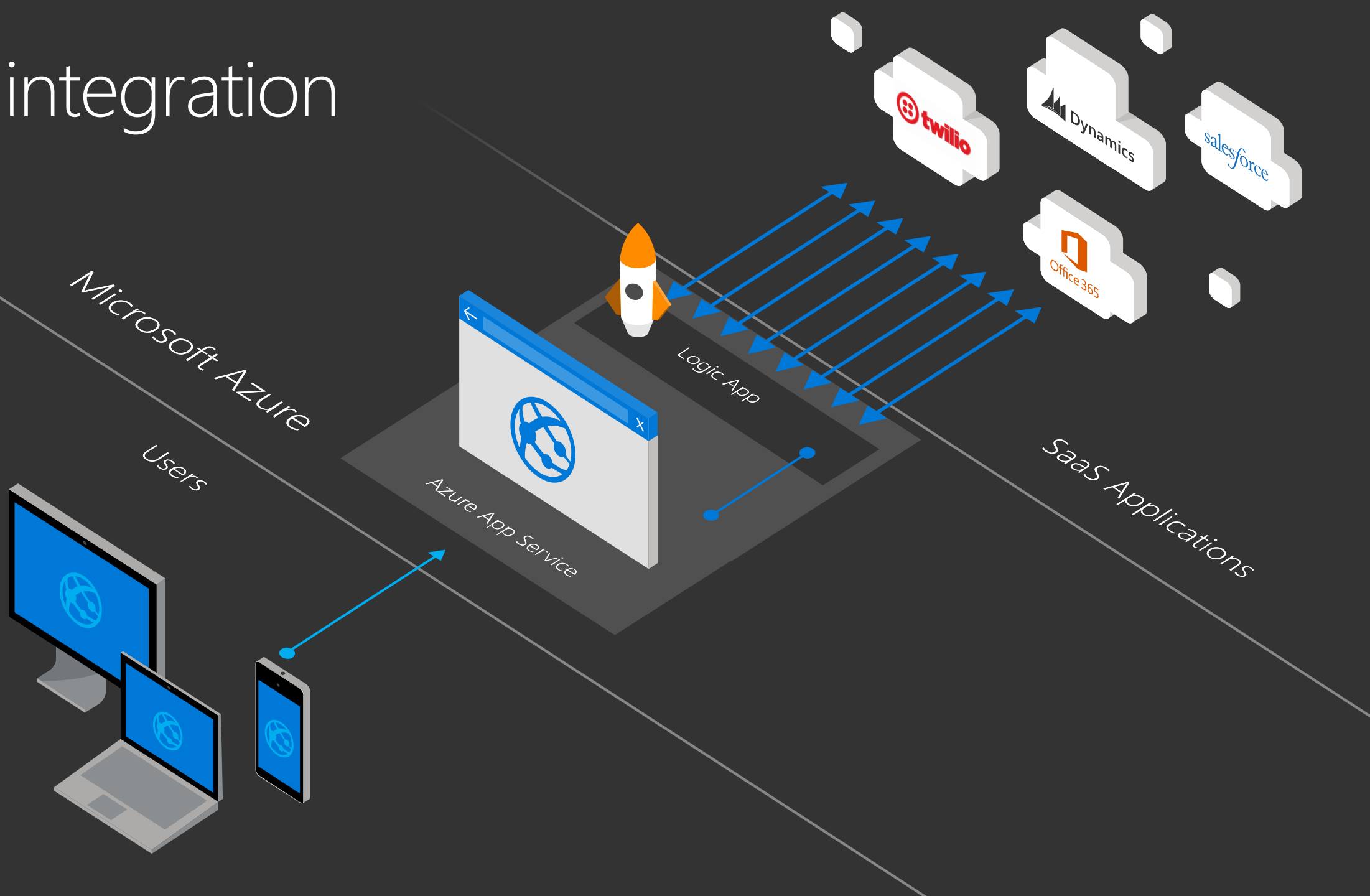
논리 앱 (Logic App)



쉬운 자동화 작업을 위한 논리앱

- 코드 없는 빠른 생성
- 기본 탑재된 템플릿
- 다양한 SaaS, On-Premise 지원
- 사용자 정의 API(Custom API) 사용
- 전문적인 통합 환경을 위한 Biztalk API 제공

SaaS integration



Built-in API Connectors



Connectors

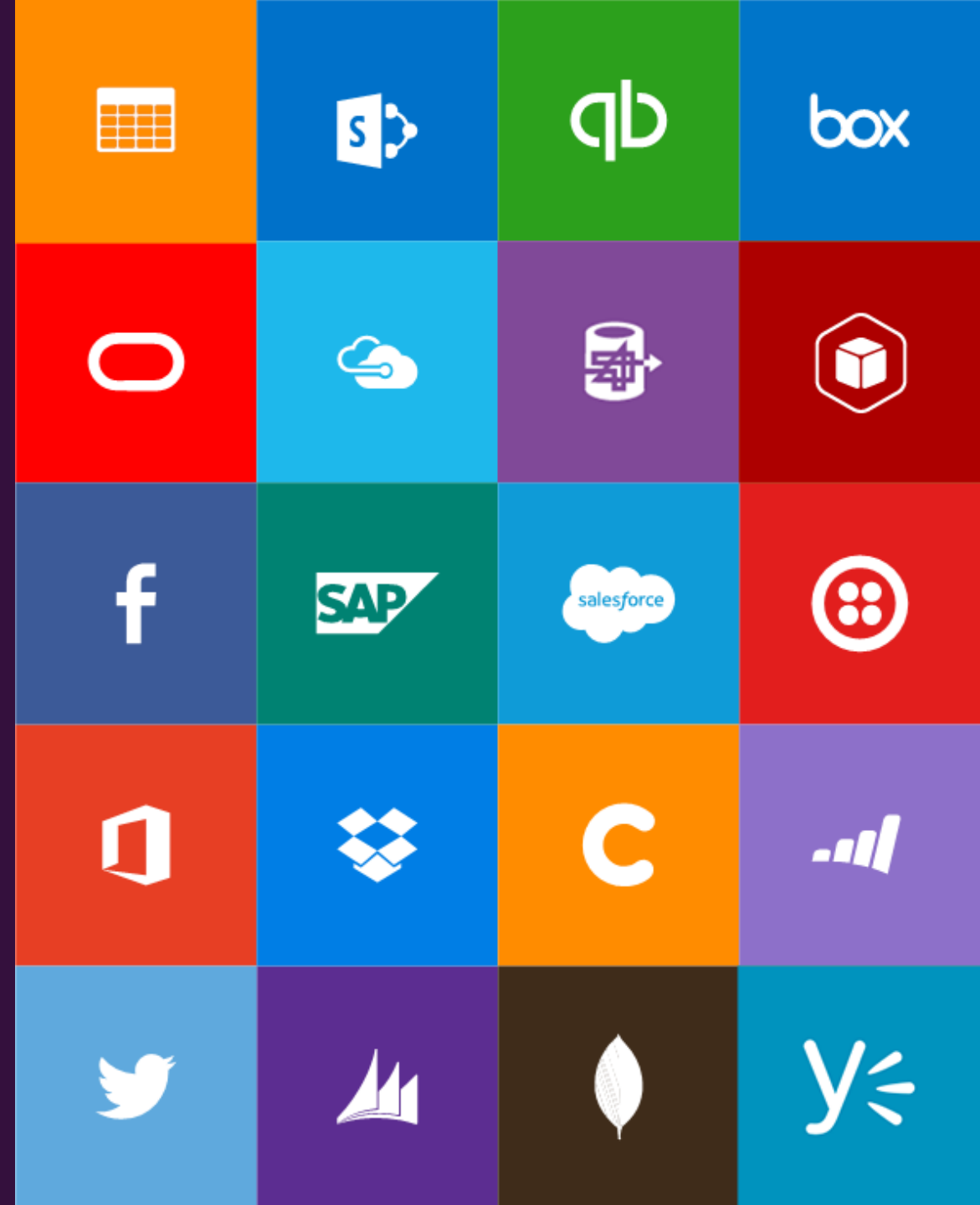
- Box
- Chatter
- Delay
- Dropbox
- Azure HD Insight
- Marketo
- Azure Media Services
- OneDrive
- SharePoint
- SQL Server
- Office 365
- Oracle
- QuickBooks
- SalesForce
- Sugar CRM
- SAP
- Azure Service Bus
- Azure Storage
- Timer / Recurrence
- Twilio
- Twitter
- IBM DB2
- Informix
- Websphere MQ
- Azure Web Jobs
- Yammer
- Dynamics CRM
- Dynamics AX
- Hybrid Connectivity

Protocols

- HTTP, HTTPS
- File
- Flat File
- FTP, SFTP
- POP3/IMAP
- SMTP
- SOAP + WCF

BizTalk Services

- Batching / Debatching
- Validate
- Extract (XPath)
- Transform (+Mapper)
- Convert (XML-JSON)
- Convert (XML-FF)
- X12
- EDIFACT
- AS2
- TPMOM
- Rules Engine



모바일 앱



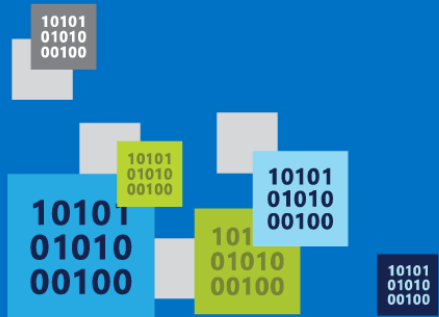
MOBILE APPS

모바일 앱 서비스
백엔드

모바일 앱 백엔드

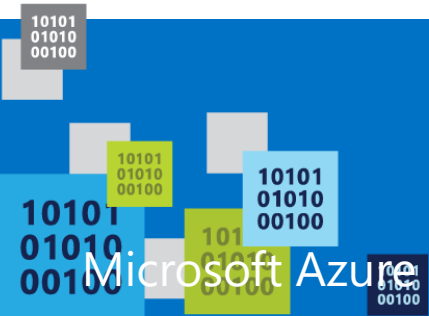
- Webjobs 실행
- CI with GitHub, BitBucket, VSO
- 자동화된 부하분산, 자동 크기조절 및, Geo DR
- 가상 네트워크와 하이브리드 연결 지원
- Stage/Production 배포를 위한 slot 제공

Demo: 모바일 앱



Custom API

- Non-table based endpoints
- Accessible from
 - GET
 - POST
 - PUT
 - PATCH
 - DELETE
- For node.js logic in scripts like table endpoints
- For .NET delivered through a WebAPI
- Expose any functionality you want

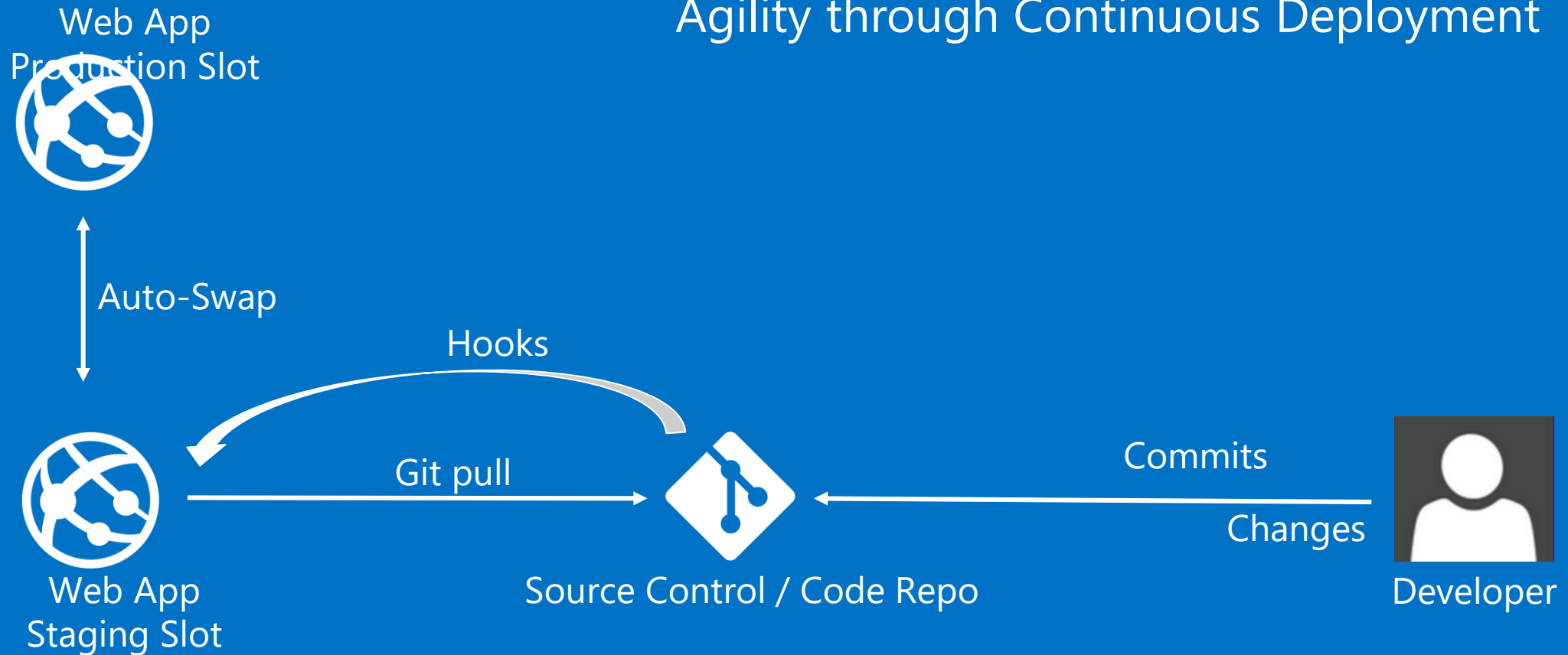


앱 서비스에서 연속 배포

Continuous integration



Agility through Continuous Deployment





Git



Visual Studio
Online



CodePlex



GitHub



BitBucket



DropBox



FTP

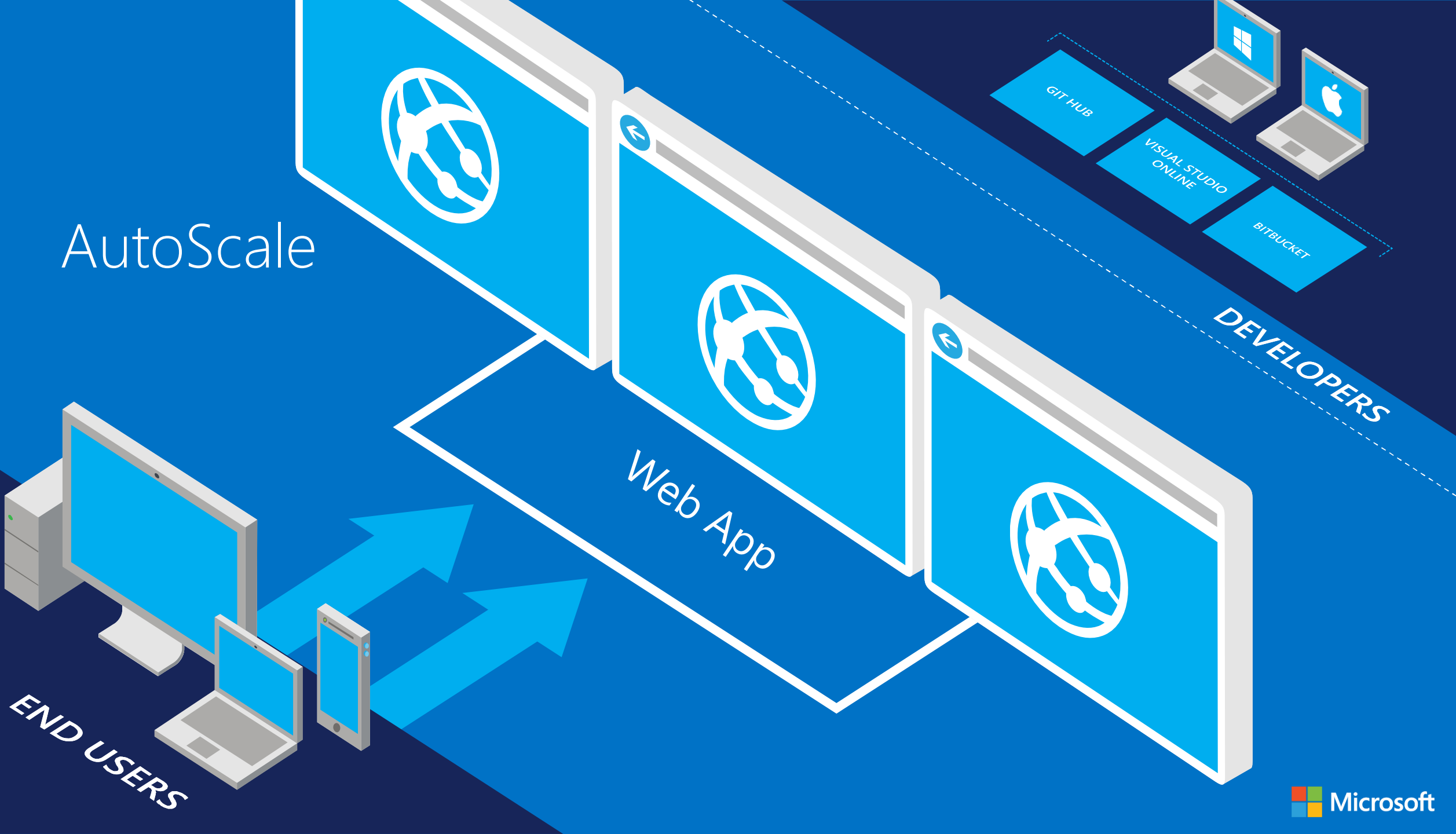
Choose your own adventure!

자동 크기조절 (AutoScale)

AutoScale



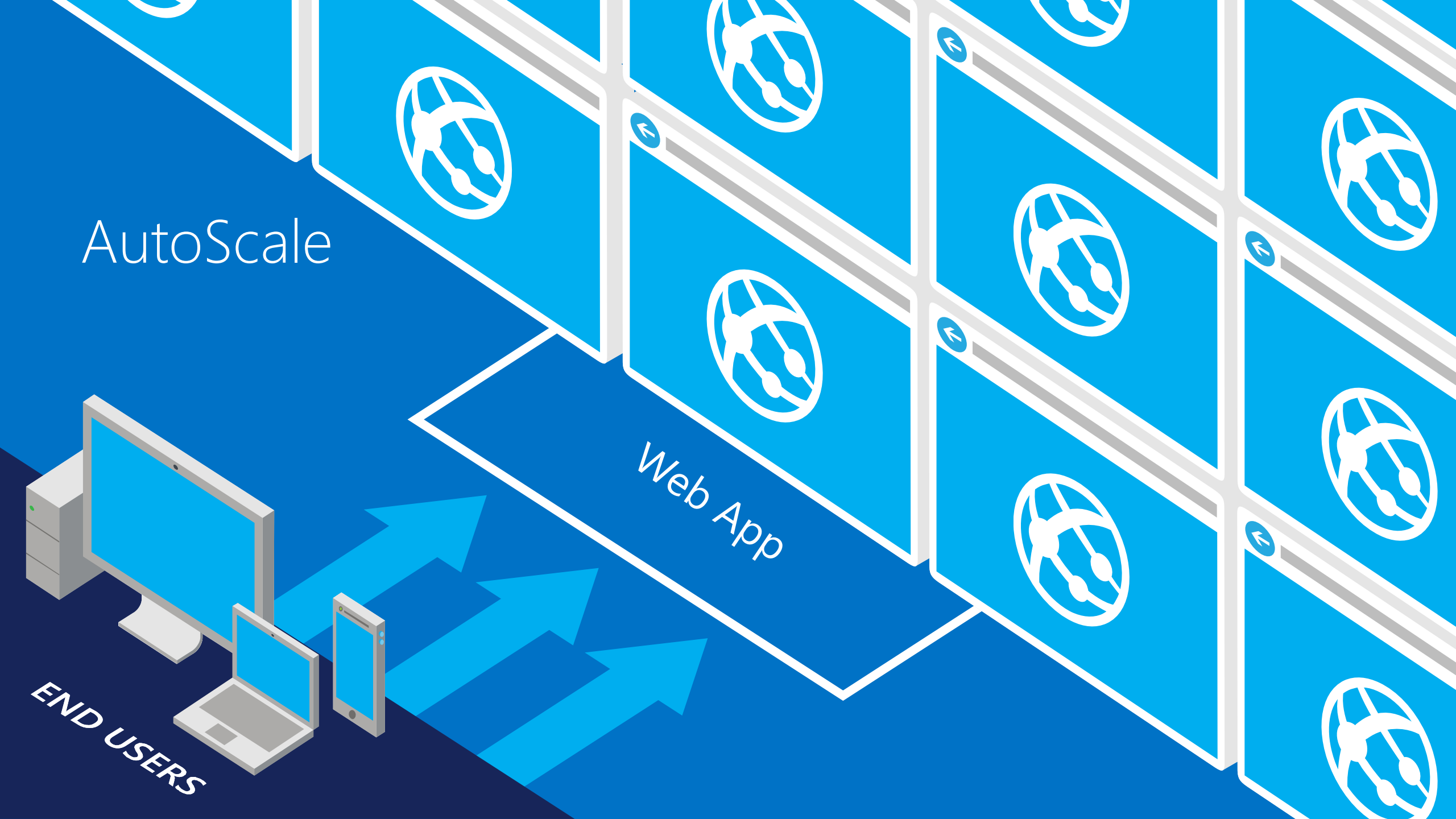
AutoScale



AutoScale

Web App

END USERS



앱서비스 환경 (App Service Environment)

App Service Environment (ASE)

- 새로운 프리미엄 등급 기능
- 독립된 컴퓨팅과 네트워크 리소스
- 향상된 크기조절 설정
- 가상네트워크에 생성
- 모든 웹앱 기능들을 제공
- 웹, 모바일, API 앱 지원



컨셉 모델



App Service
App



App Service
App



App Service
App

App Service Plan

SKU: Premium (# of sites, storage, slots...)

Compute Resource: P4 (8 cores, 14 GB memory)

Scale: 8



App Service
App



App Service
App



App Service
App

App Service Plan

SKU: # of sites, storage, slots...

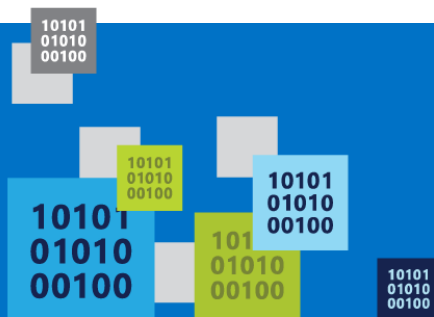
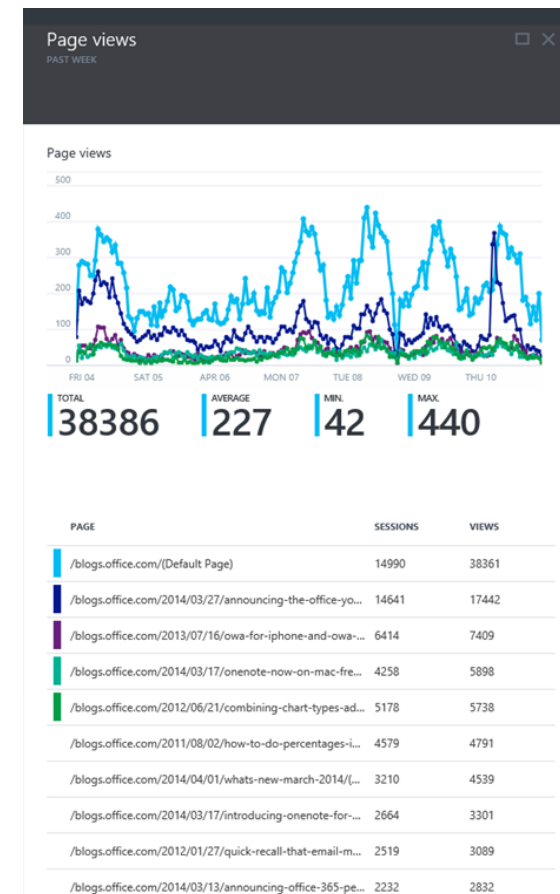
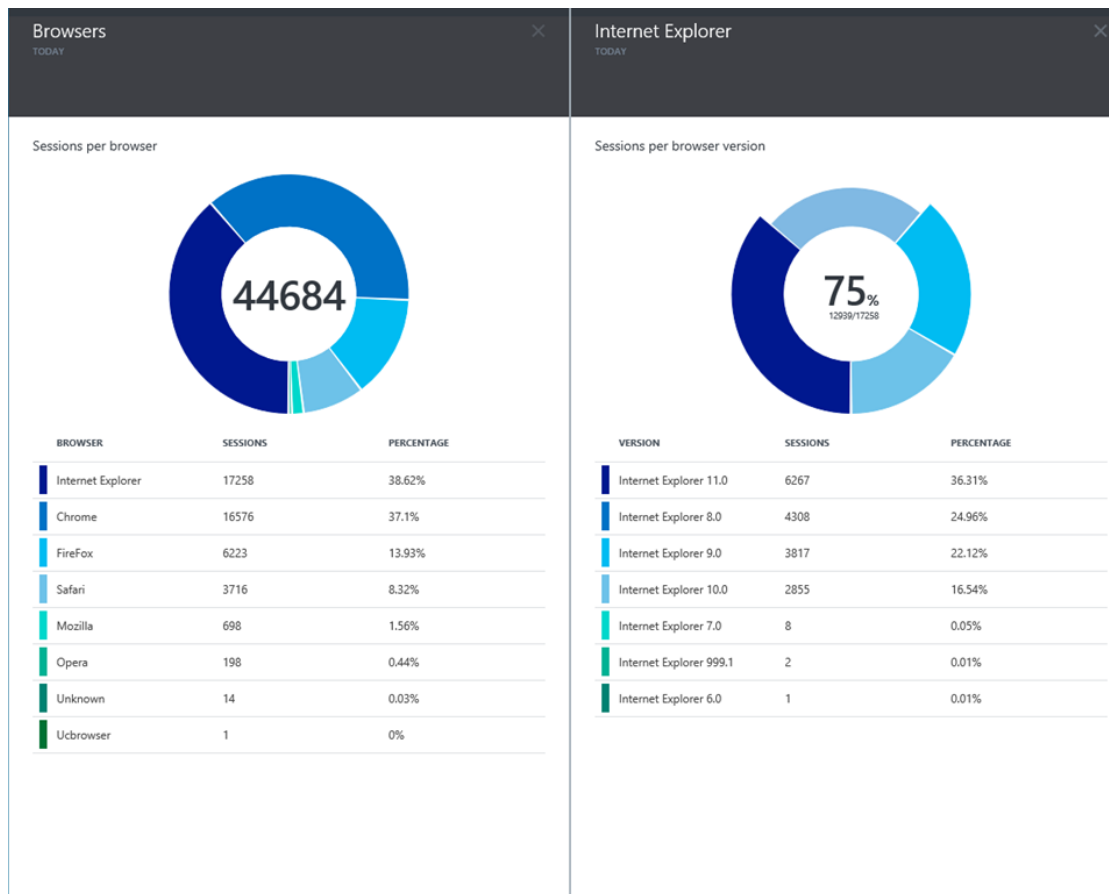
Compute Resource: cores, memory

Scale: number of instances

Note: For App Service Environment the SKU will always be Premium

어플리케이션 인사이트 (Application Insights)

Application Insights







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