Microsoft IoT Camp #1

Microsoft IoT

김영욱 Technical Evangelist

부장/ DX / Microsoft

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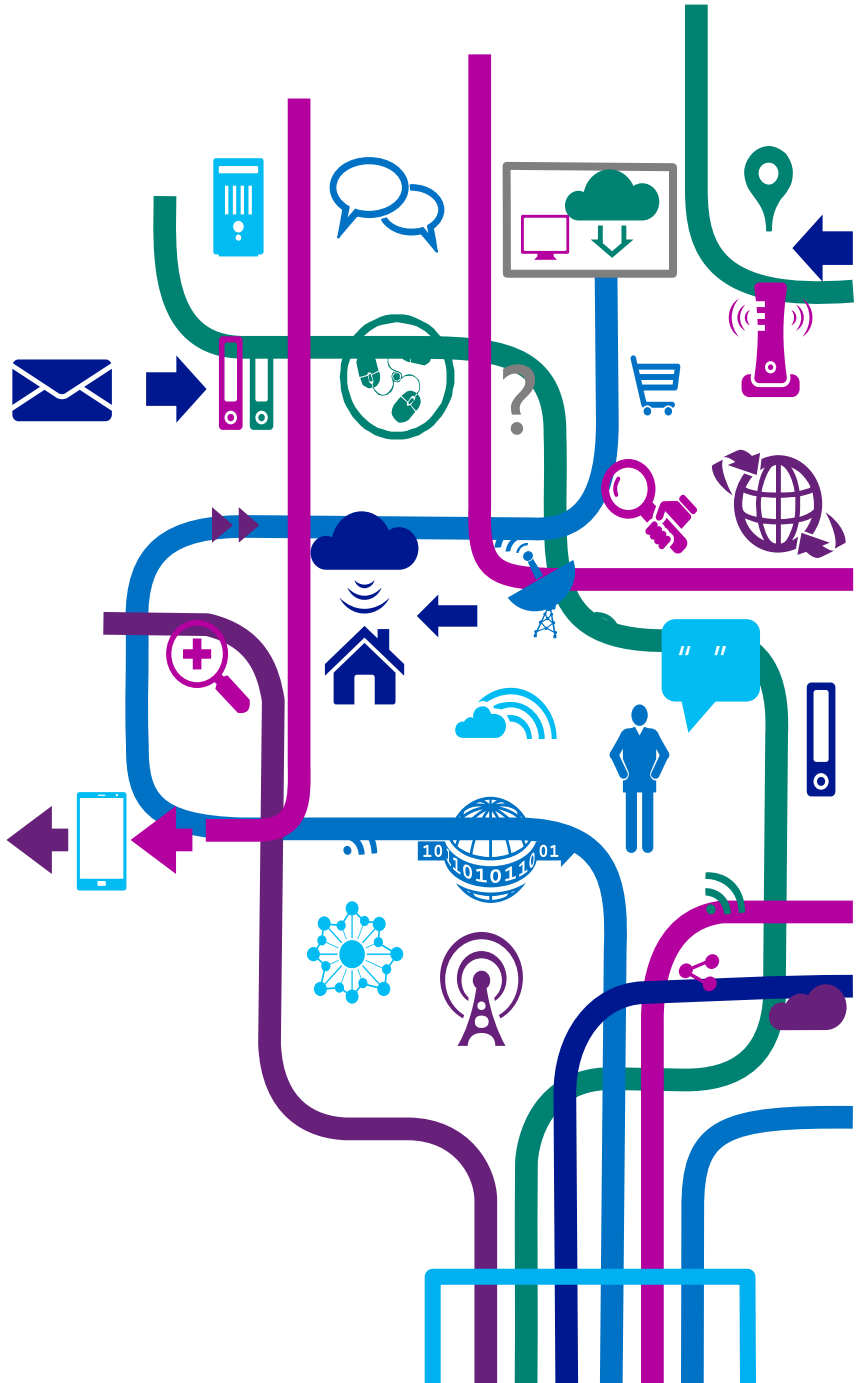


Welcome to Microsoft IoT Camp

준비물

Visual Studio 2013 Community, Professional, Premium
(https://www.visualstudio.com)

Azure 1개월 무료 평가판
(http://azure.microsoft.com/ko-kr/pricing/free-trial/)

Arduino IDE
(http://arduino.cc/en/Main/Software)

2014년
What is IoT?

LB
164.5
Withings

Device + Service + Software

1 Device

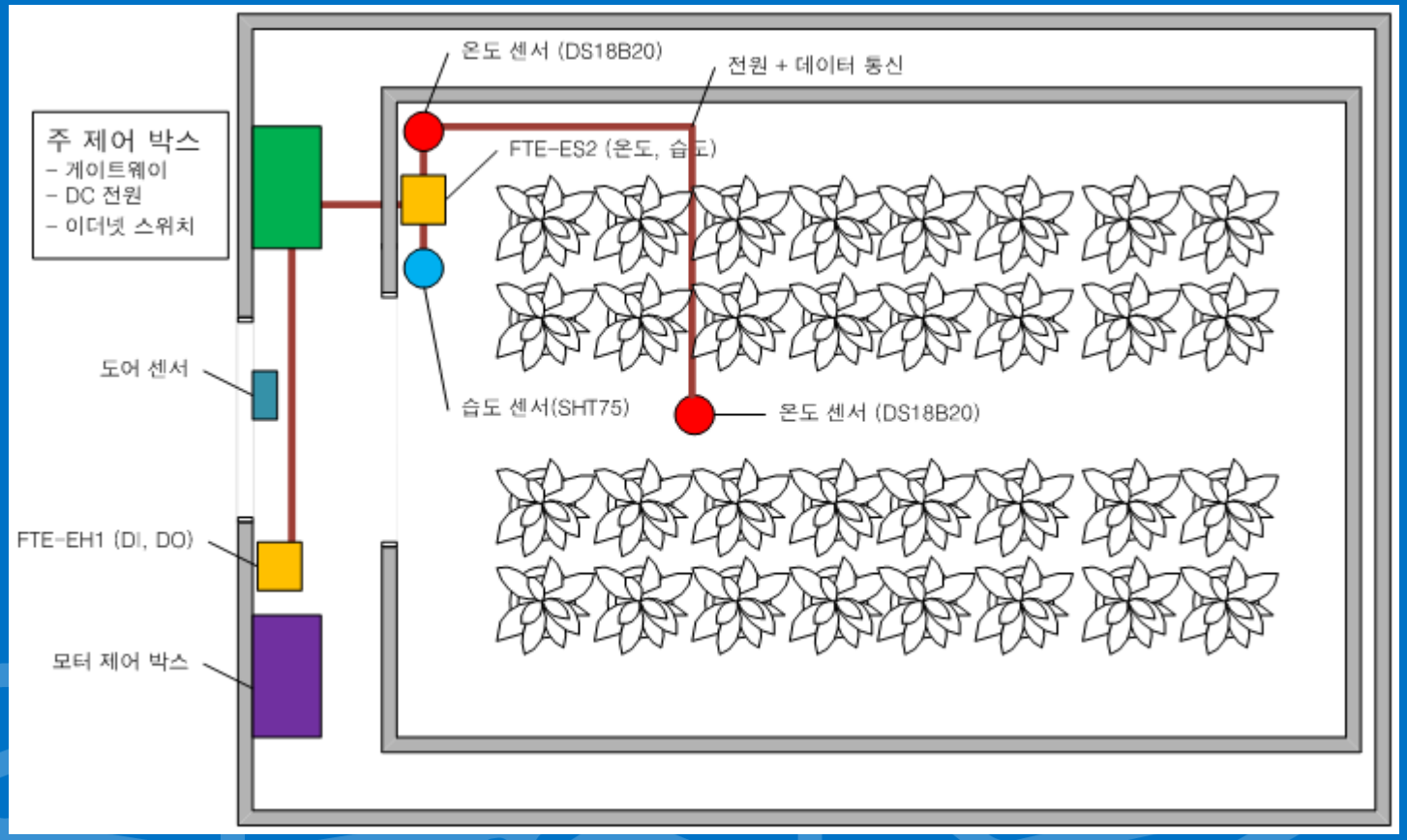
2 Service

3 Software

IoT Platform

Microsoft

사례: FutureTek



Microsoft

사례: SmartShare

BallReady

Pet Care

SpaceOne

Solar E Monitoring

FutureTek

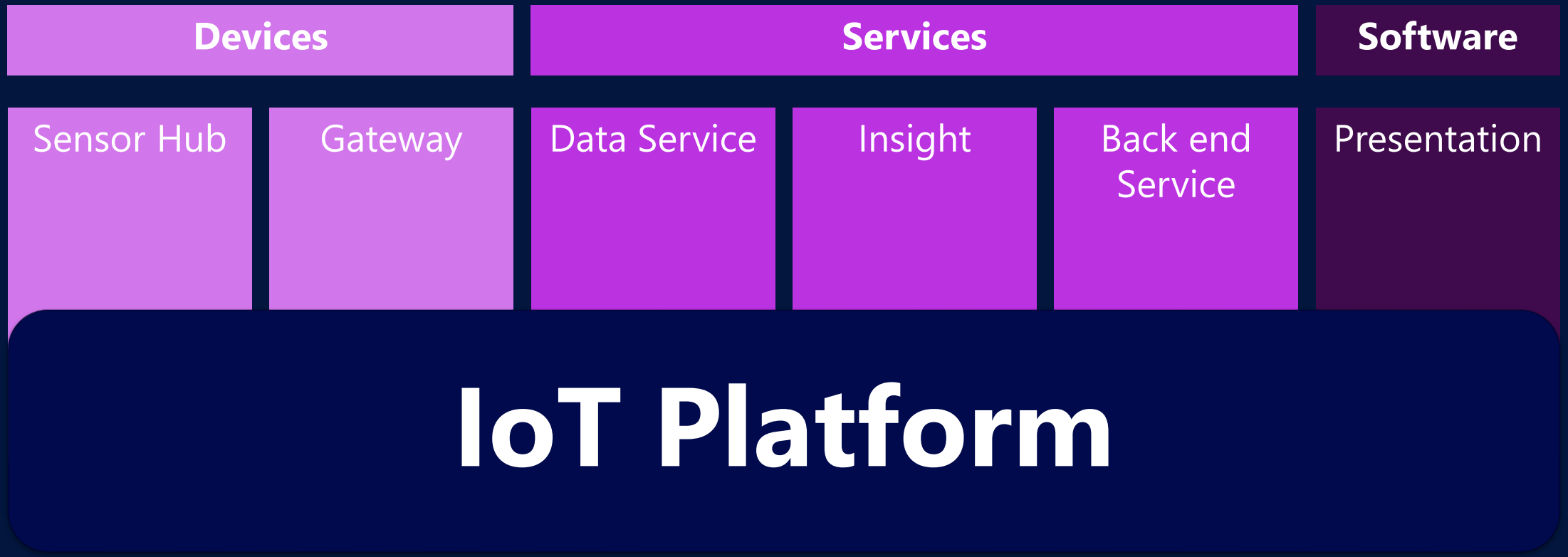
Smart

IoT Share

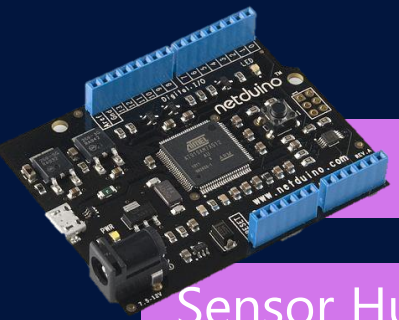
Microsoft Azure

2015년
IoT NOW!!

IoT Platform Layer



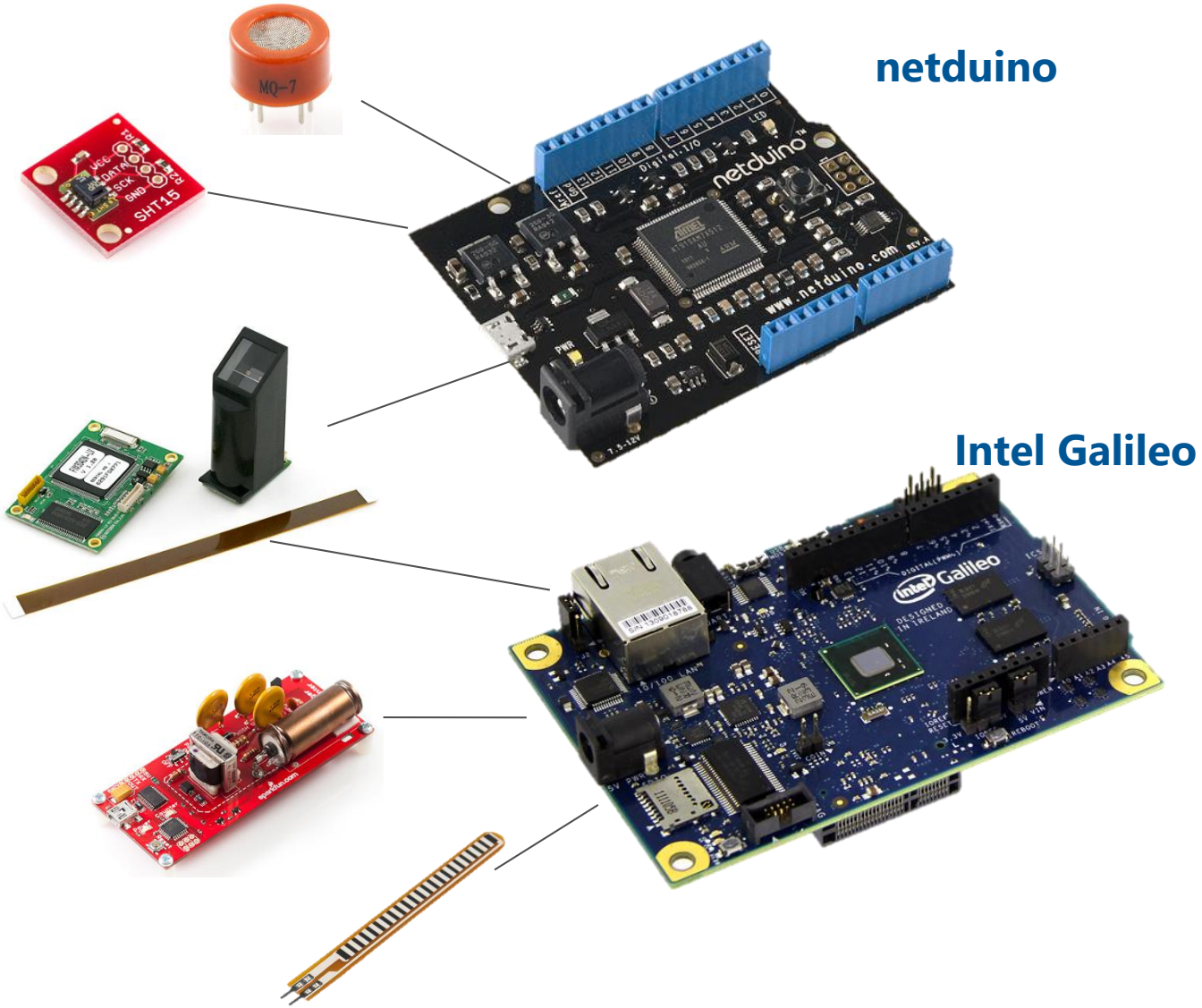
Devices



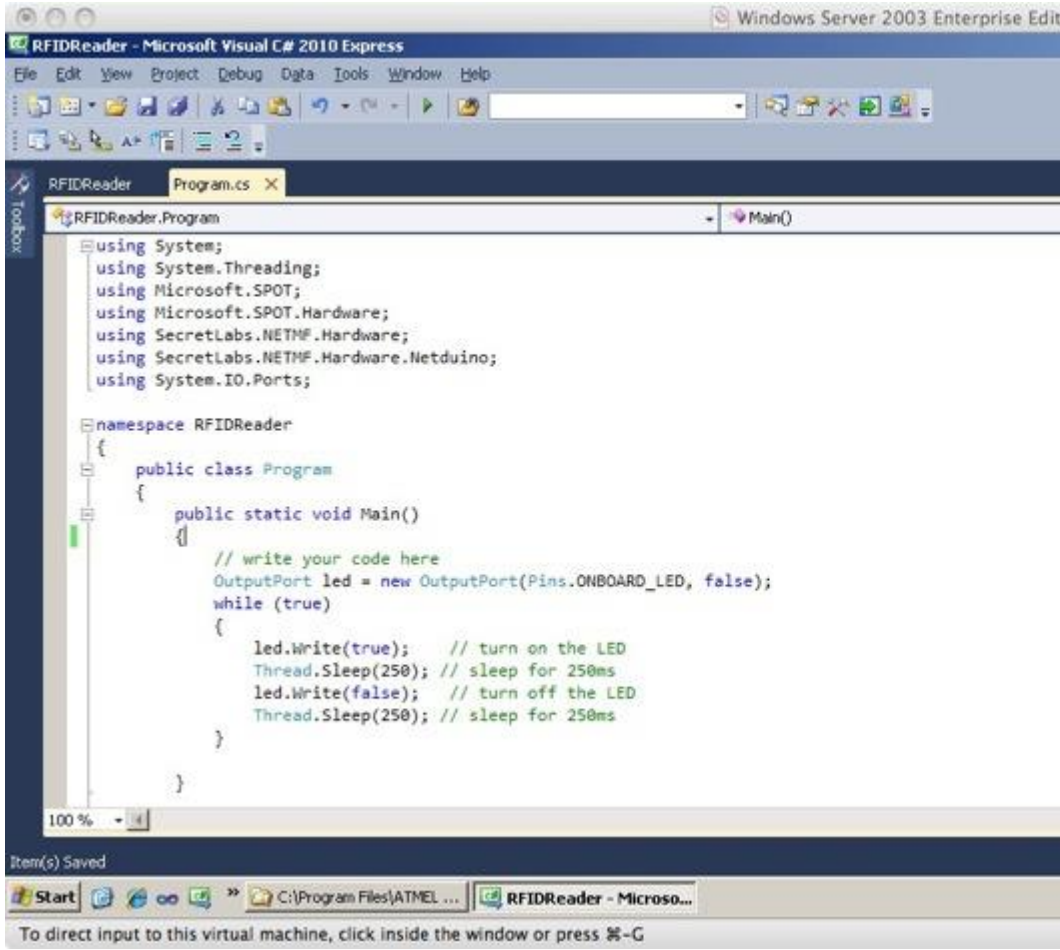
Devices		Services			Software
Sensor Hub Arduino Netduino Galileo Raspberry Pi ….	Gateway IoT Gateway Raspberry Pi Galileo ….	Data Service	Insight	Back end Service	Presentation

IoT Platform

Devices **Sensor Hub**

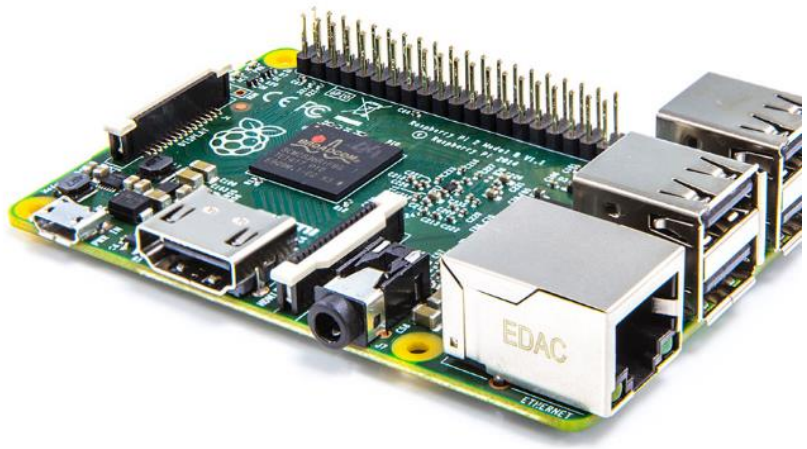


Visual Studio (C++, C#)



Devices **Gateway**

Raspberry Pi 2



6배 성능 향상된 '라즈베리파이2' 출시...윈도우10도 구동 가능

2015년 2월 3일 By 마이크로소프트웨어 서준석 기자

486 9 3 0

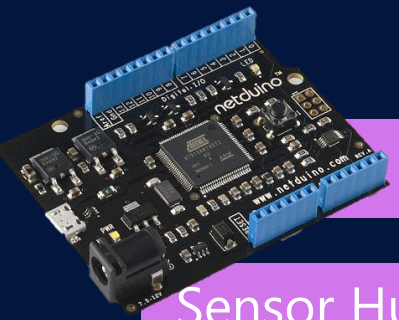
초소형 미니PC로 잘 알려진 '라즈베리파이(Raspberry Pi)'의 2세대 제품이 출시됐다. 성능은 6배 향상됐지만 가격은 여전히 이전 모델(라즈베리파이 B+)과 같은 35달러다.

Neo-W200

Neo-W100

IoT Gateway
MDS테크놀러지

Services

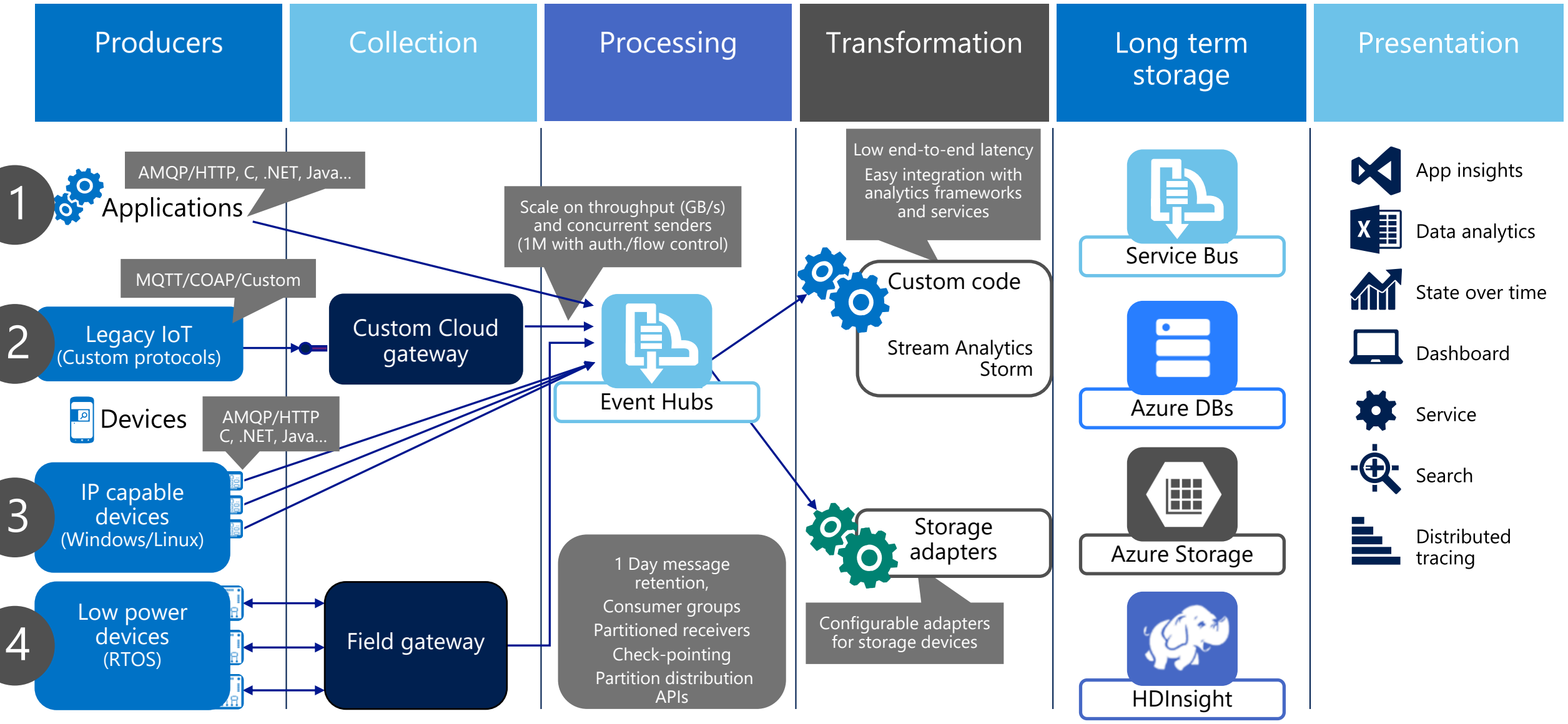


Microsoft Azure

Devices		Services			Software
Sensor Hub Arduino Netduino Galileo Raspberry Pi ….	Gateway IoT Gateway Raspberry Pi Galileo ….	Data Service Event Hub Website Storage SQL Azure	Insight HDInsight Azure ML Stream Analytics Data Factory	Back end Service Mobile Service Power BI Website	Presentation

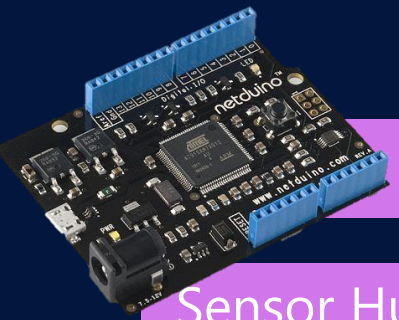
IoT Platform

Services **Data Service**



Azure Machine Learning

Software



Microsoft Azure

Visual Studio

Xamarin

Devices		Services			Software
Sensor Hub	Gateway	Data Service	Insight	Back end Service	Presentation
Arduino Netduino Galileo Raspberry Pi ….	IoT Gateway Raspberry Pi Galileo ….	Event Hub Website Storage SQL Azure	HDInsight Azure ML Stream Analytics Data Factory	Mobile Service Power BI Website	Universal App Cross Platform App (iOS, Android) Standard Web

IoT Platform

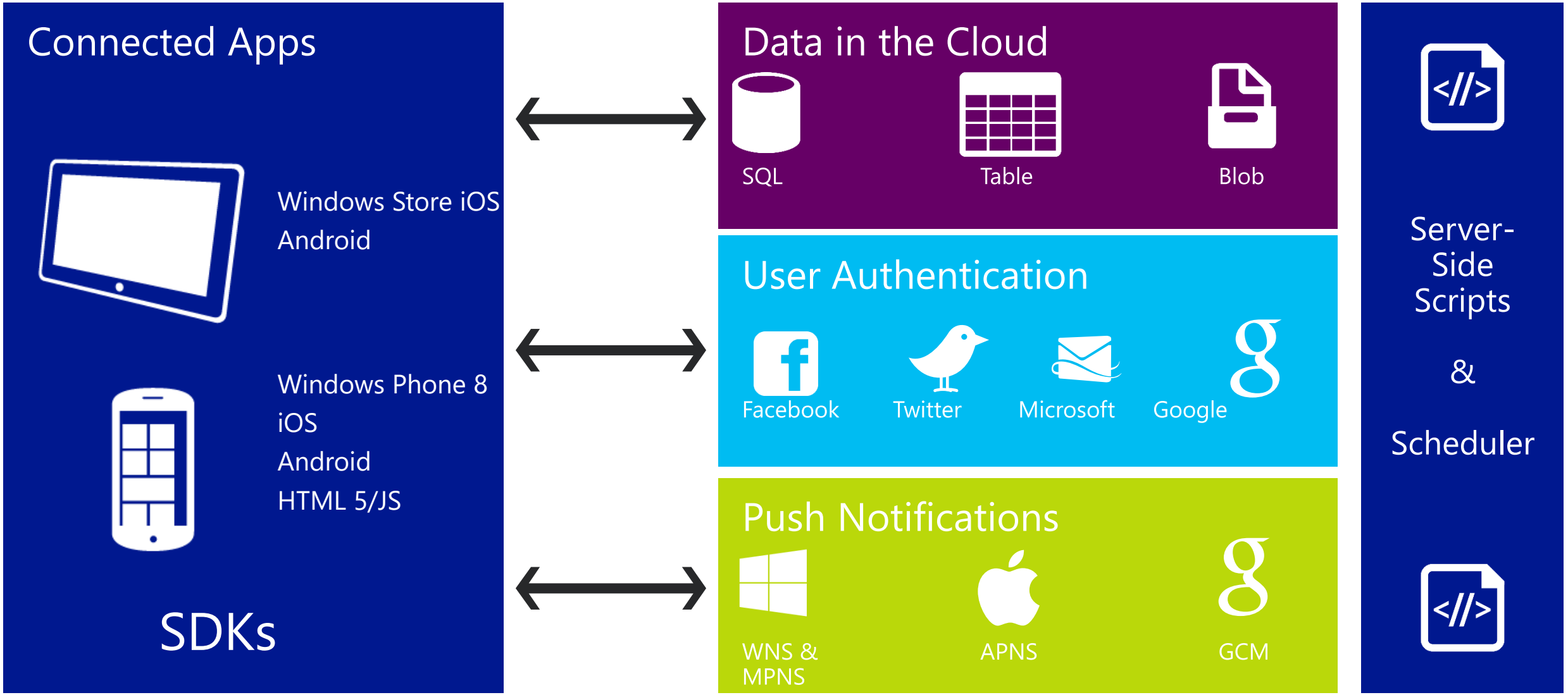
Mobile Services

- Easily build cloud back-ends
- Data, identity management, push notifications
- Windows 8, Windows Phone, iOS

Windows Azure

Services **Presentation**

기본 기능

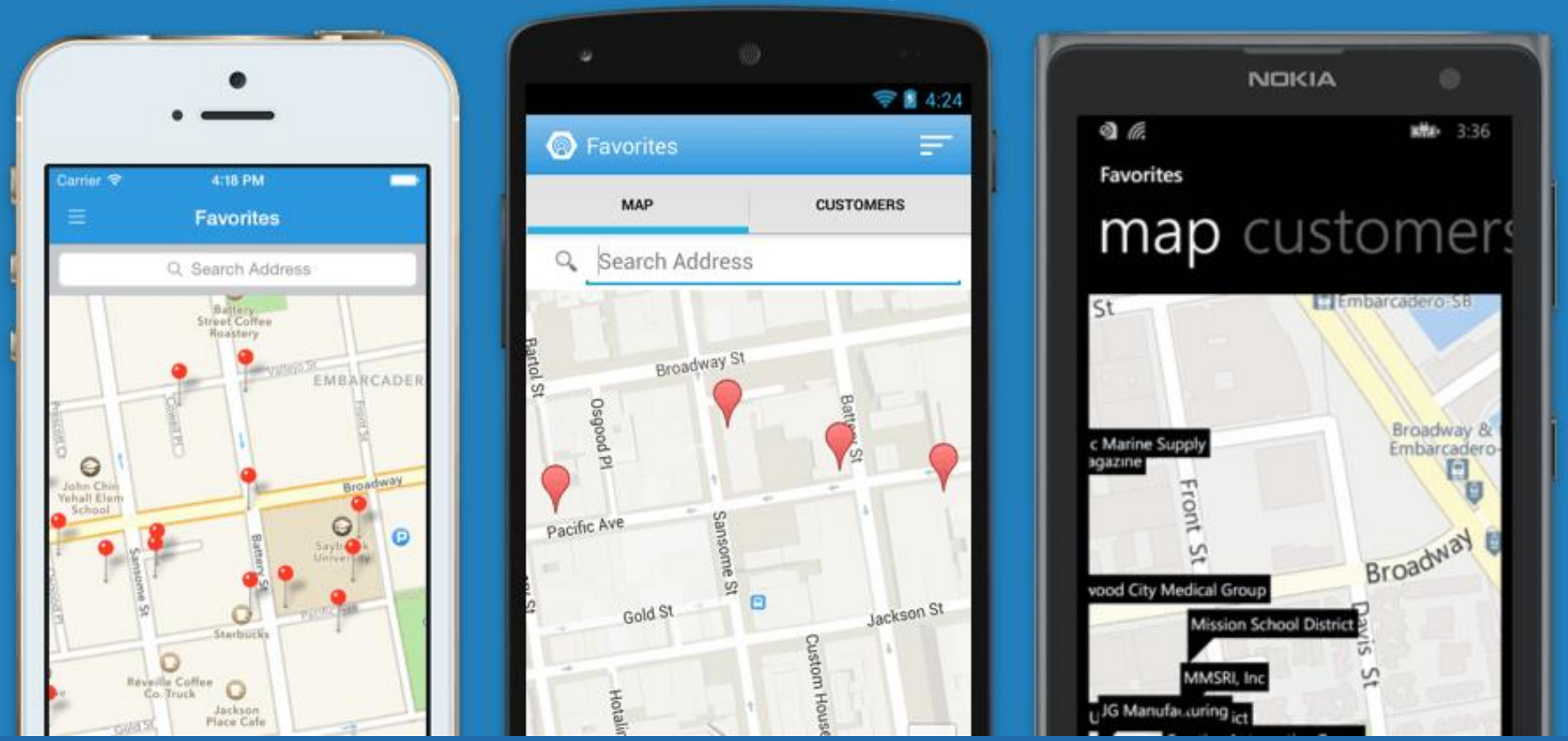

Connected Apps
Windows Store iOS
Android
Windows Phone 8
iOS
Android
HTML 5/JS
SDKs
Data in the Cloud
SQL
Table
Blob
User Authentication
Facebook
Twitter
Microsoft
Google
Push Notifications
WNS &
MPNS
APNS
GCM
Server-
Side
Scripts
&
Scheduler

Xamarin

Visual Studio

Xamarin

C#



Microsoft 는 IoT를 위한
Device + Service + Software 를 가장 잘 제공할 수 있는 회사 입니다.

http://www.slideshare.net/winkey7/20150212-microsoft-iot