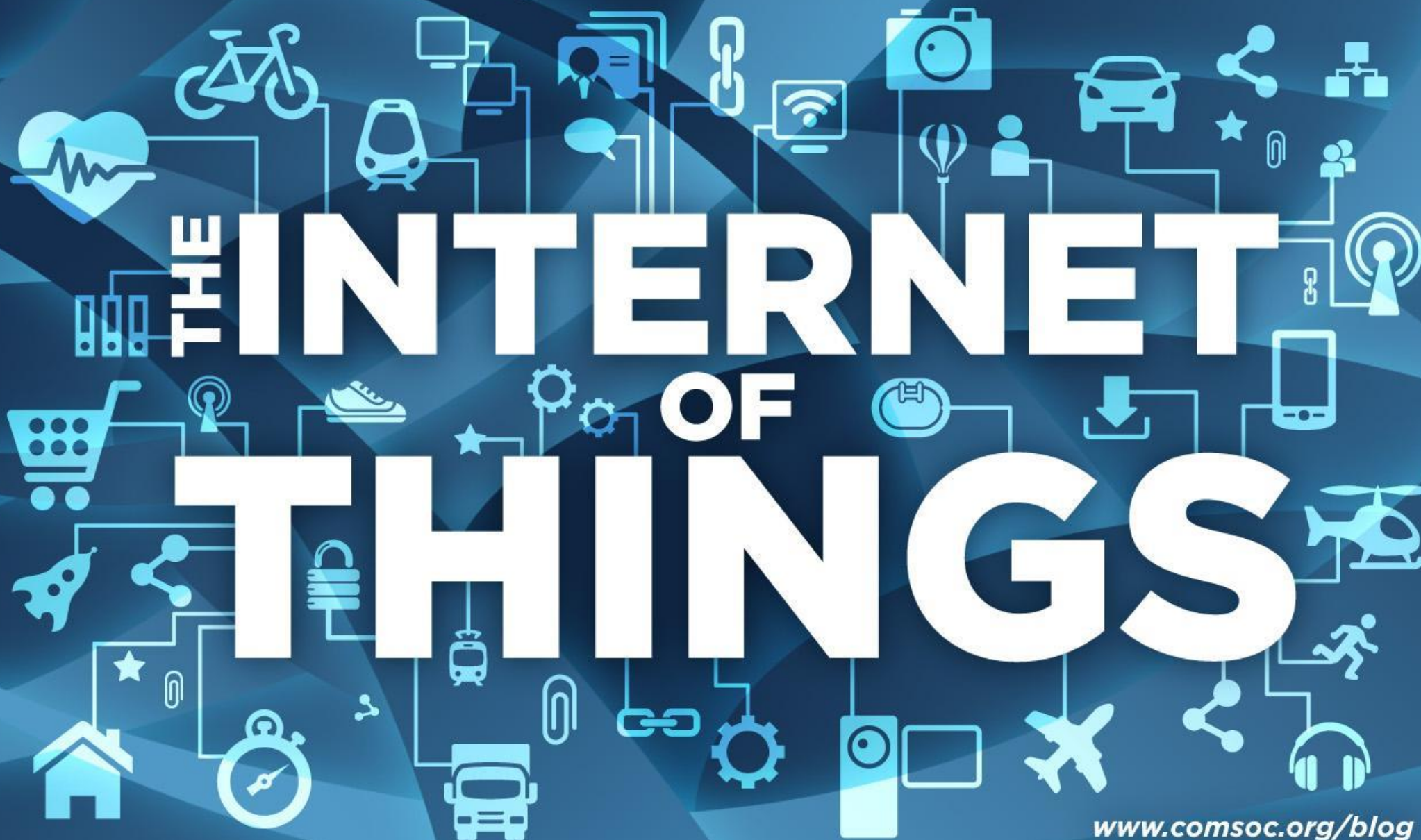


Internet of Things Project Overview



THE INTERNET OF THINGS

www.comsoc.org/blog

www.comsoc.org/blog

Things



Connectivity

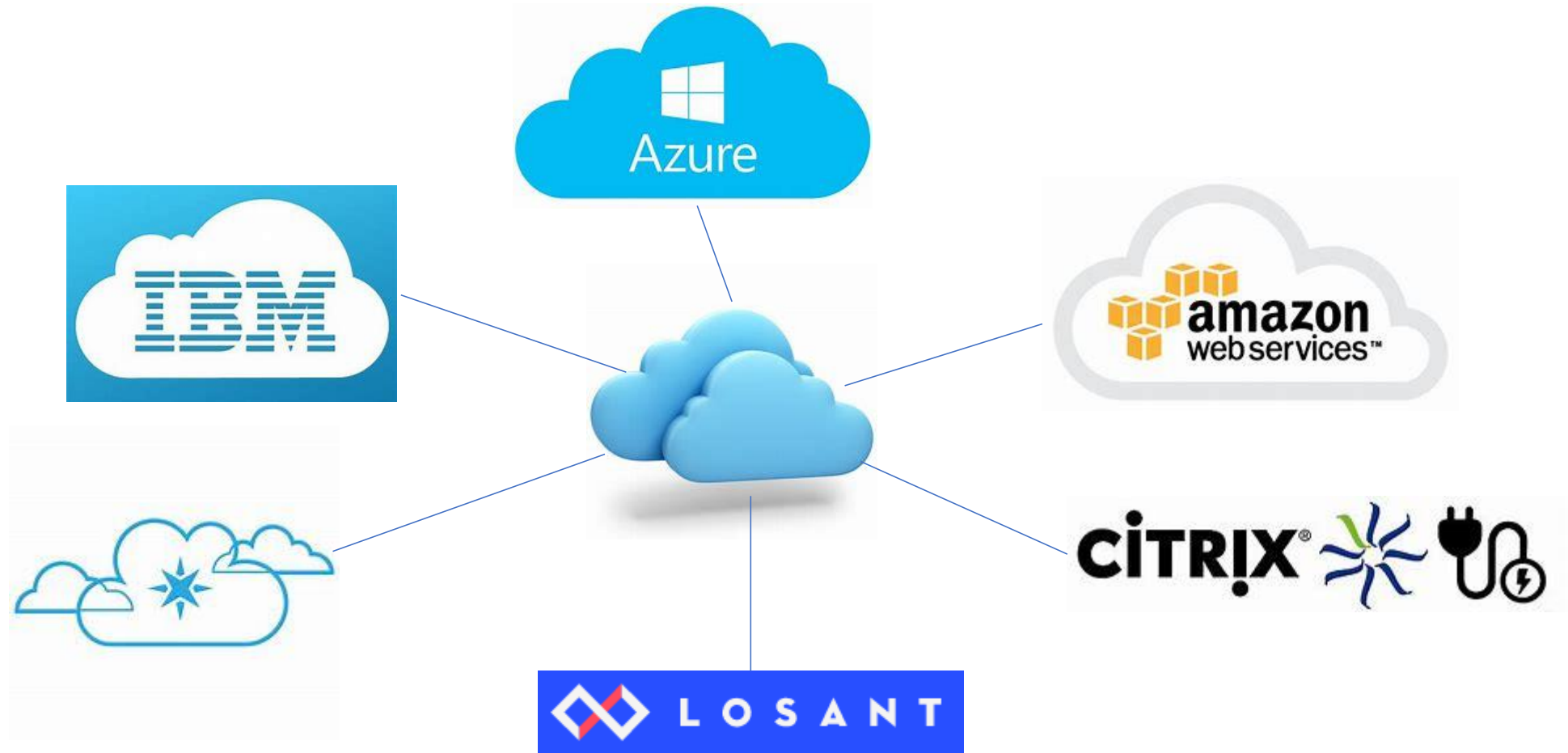


Data

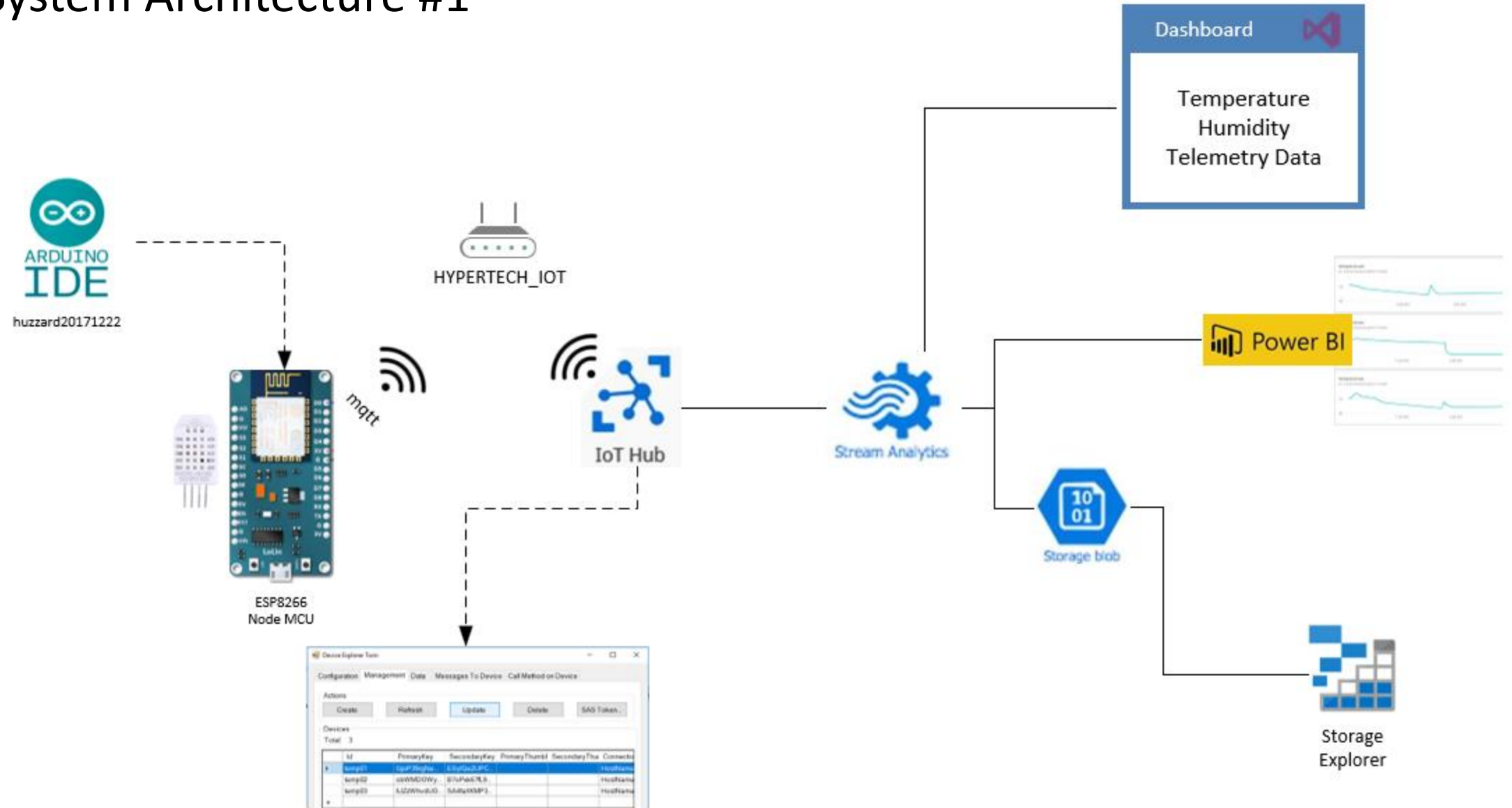
10101
01010
00100

Analytics

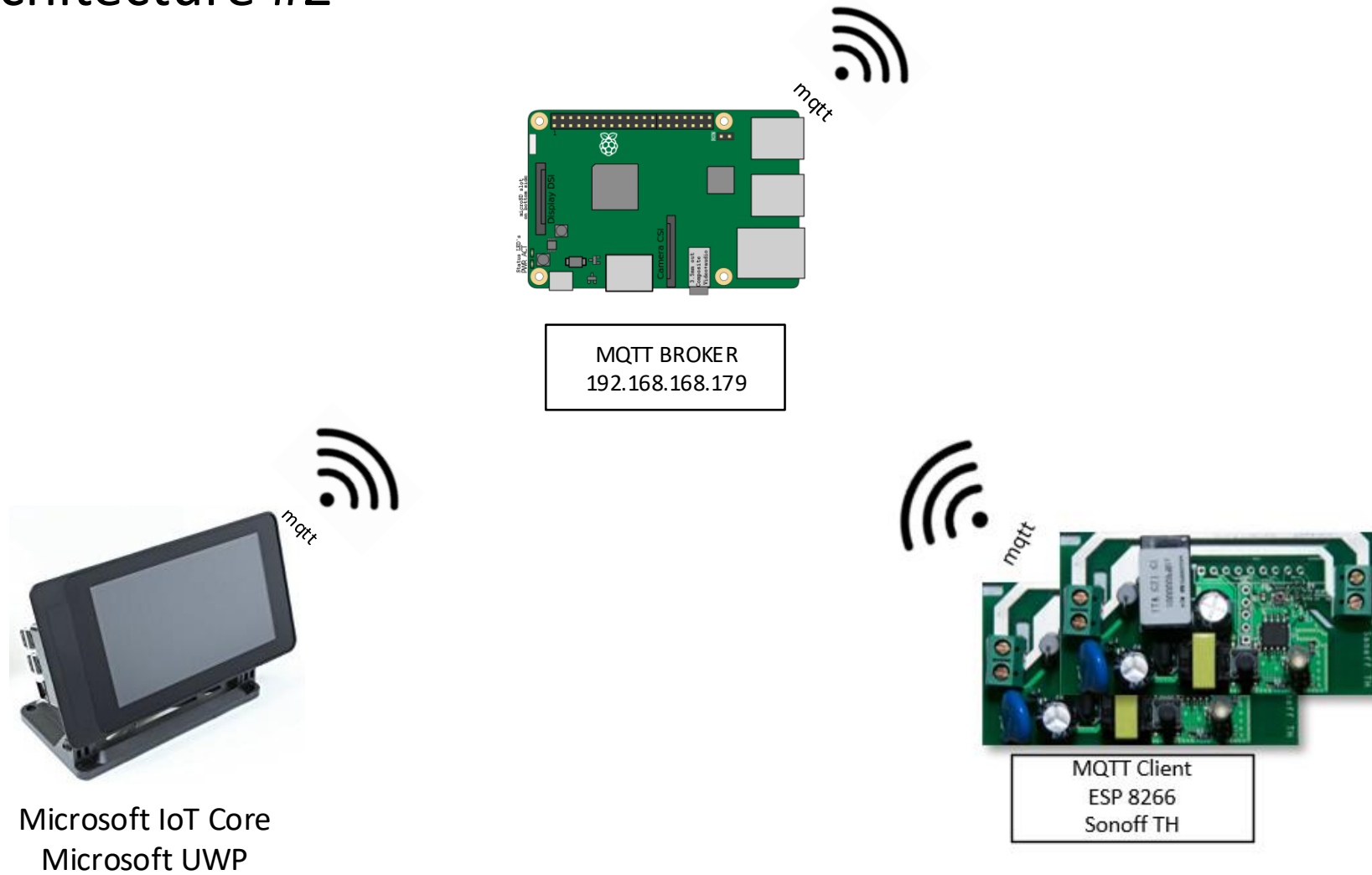


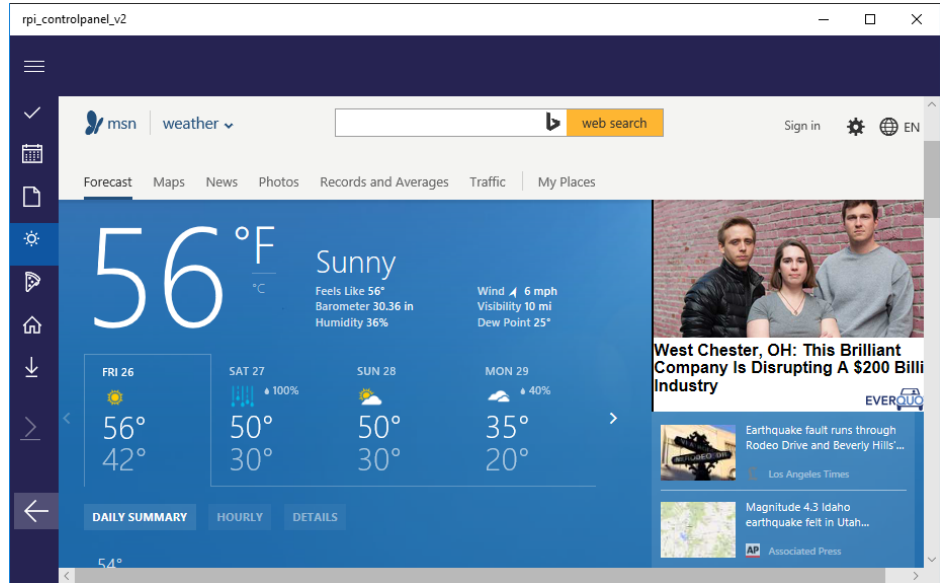
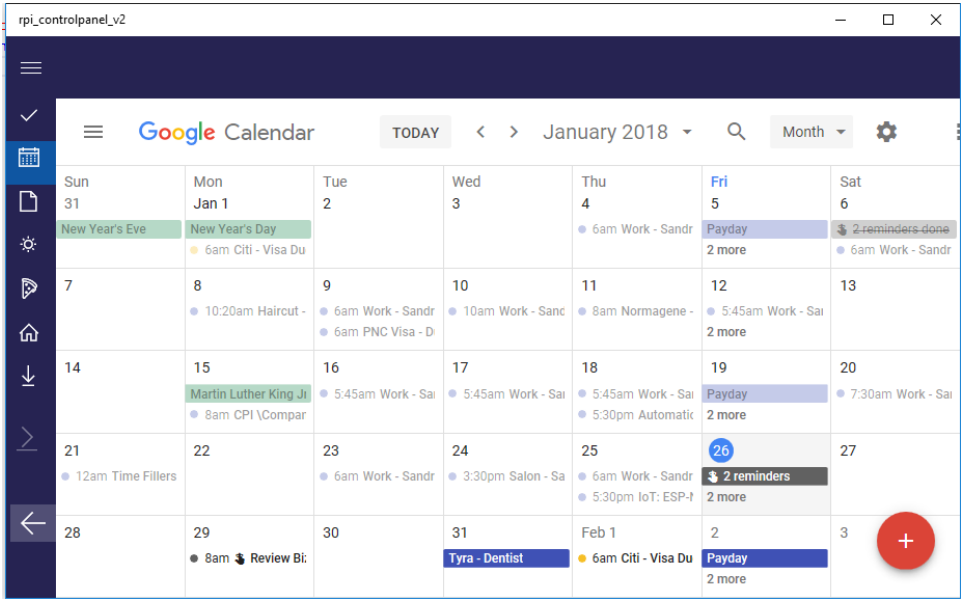
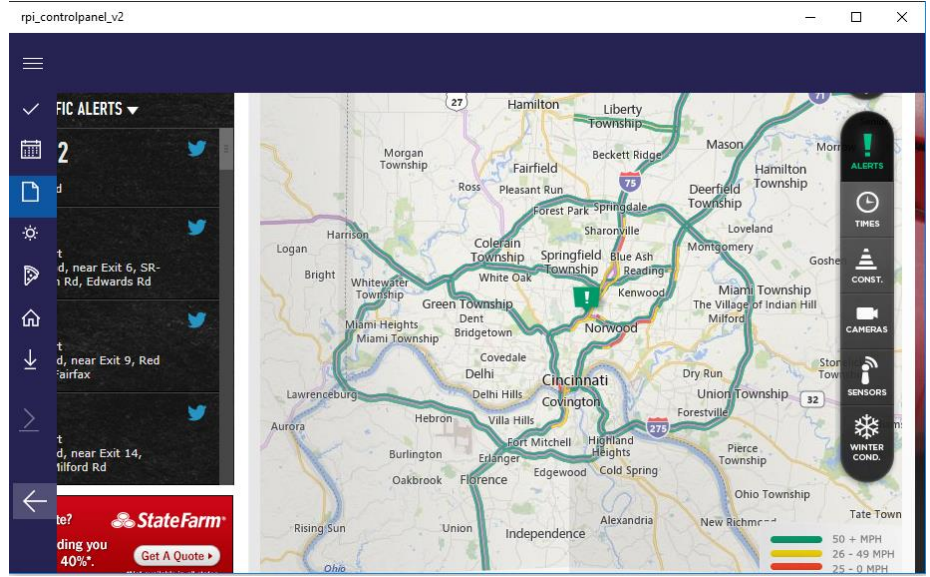
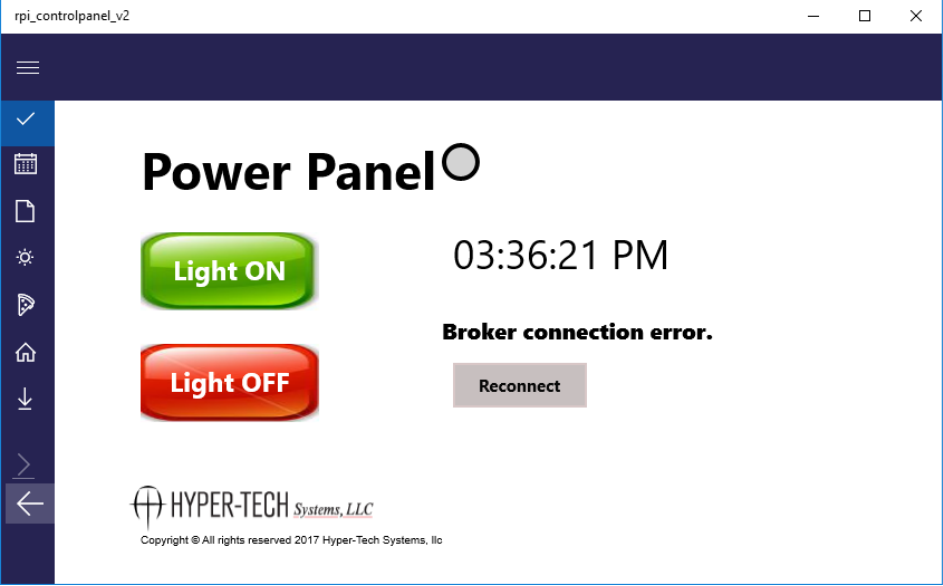


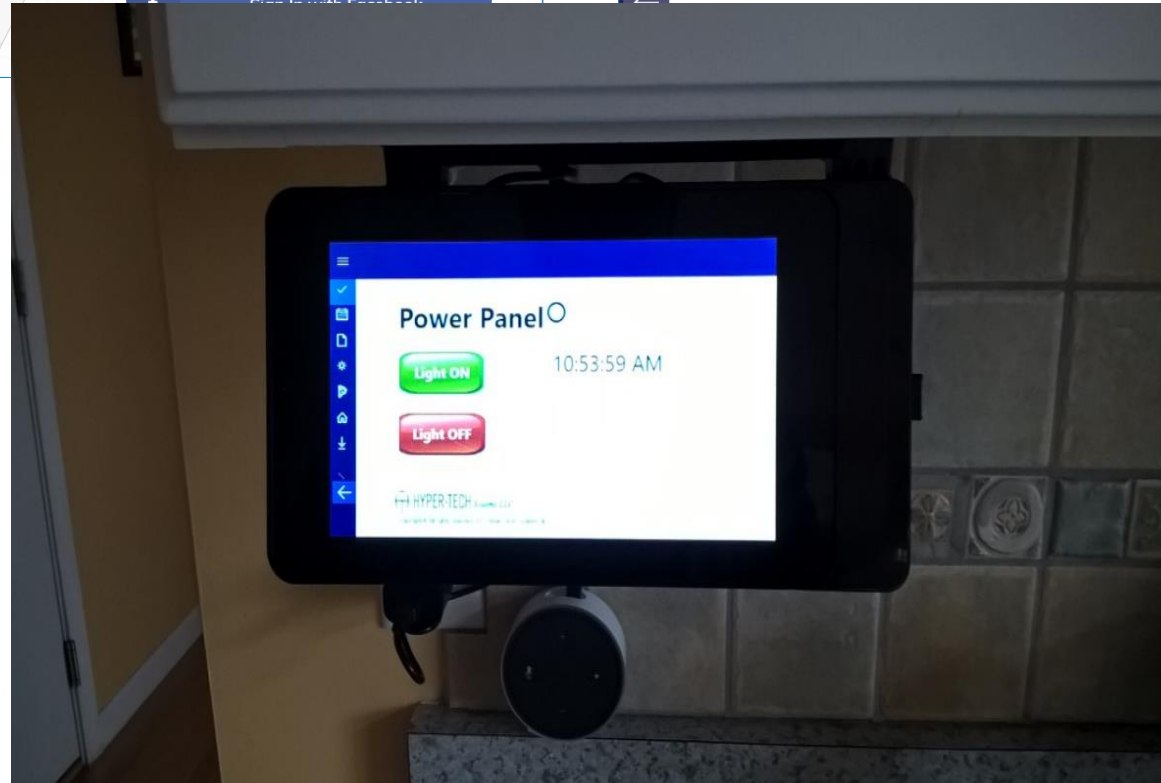
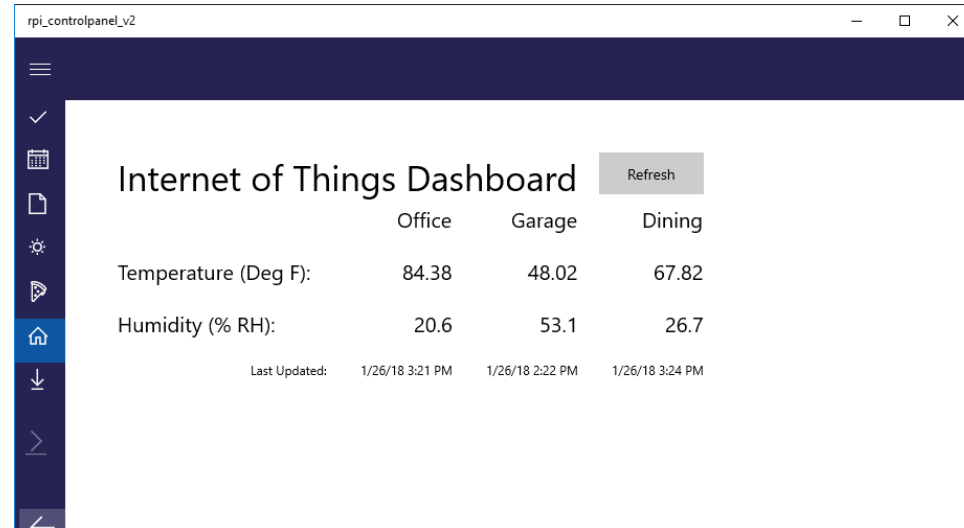
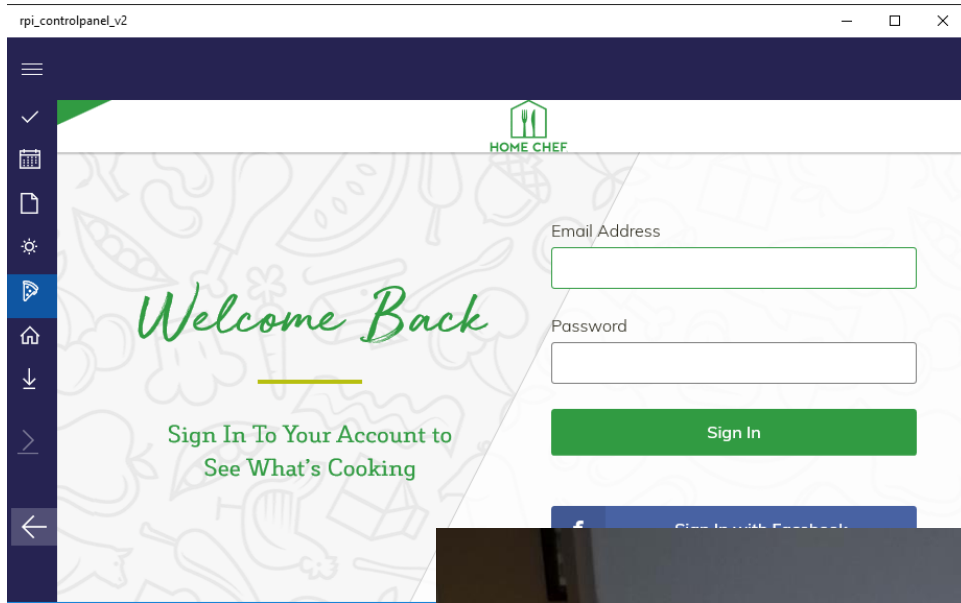
System Architecture #1

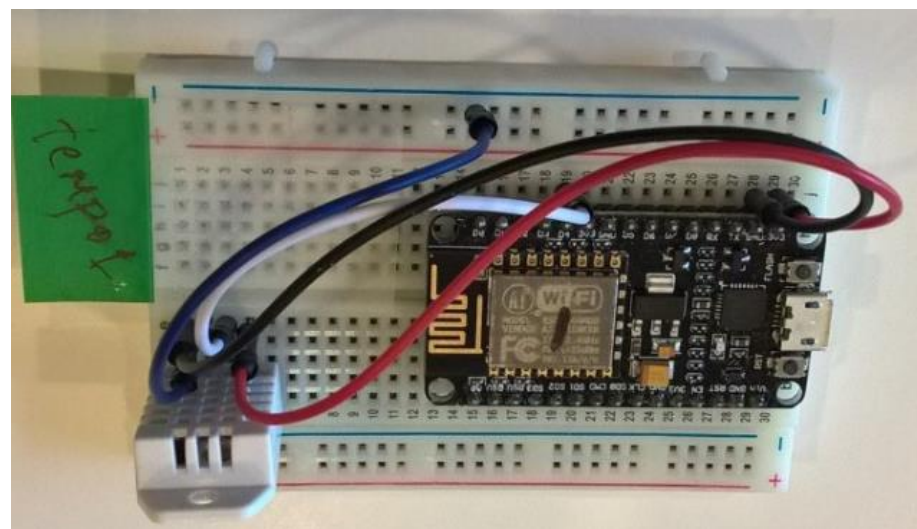


System Architecture #2





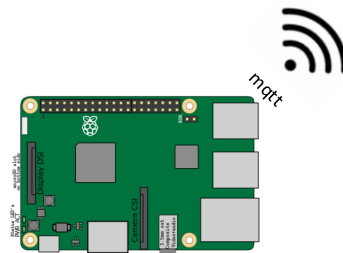




Internet of Things Project Detail



Microsoft IoT Core
Microsoft UWP

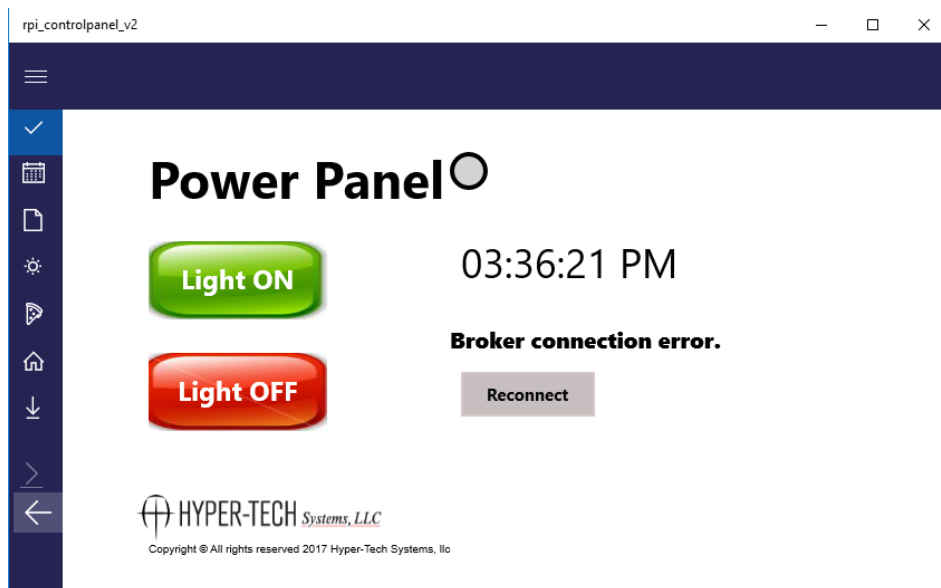


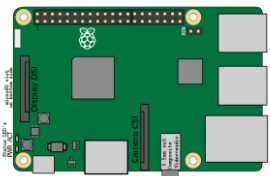
MQTT BROKER
192.168.168.179

NodeJS



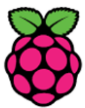
MQTT Client
ESP 8266
Sonoff TH





MQTT BROKER
192.168.168.179

node
express



RaspberryPi
version 3B



C#/UWP



Visual
Studio

Windows IoT



RaspberryPi
version 3B



MQTT Client
ESP 8266
Sonoff TH



ESP8266

Sonoff



huzzard20171222



ESP8266
Node MCU

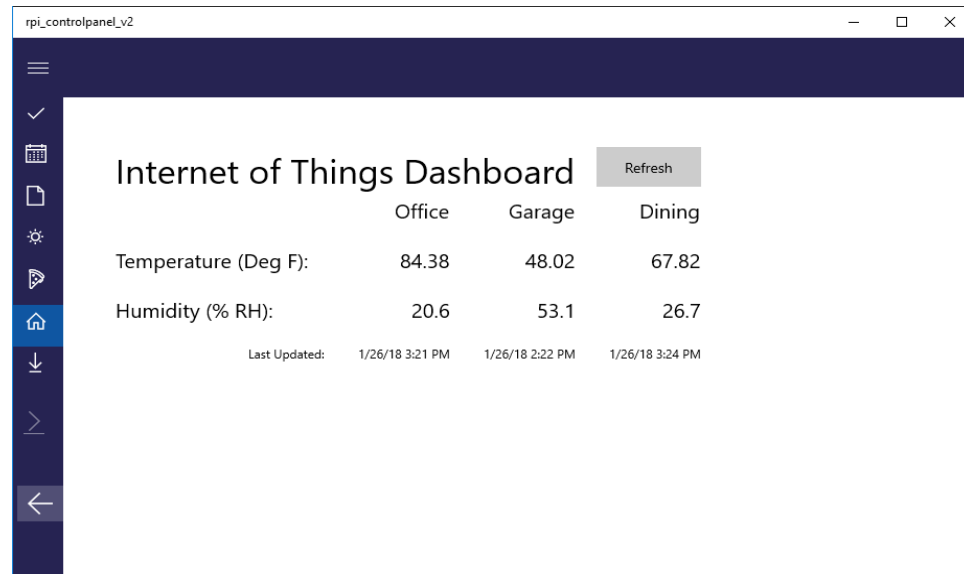
Device Explorer Tool

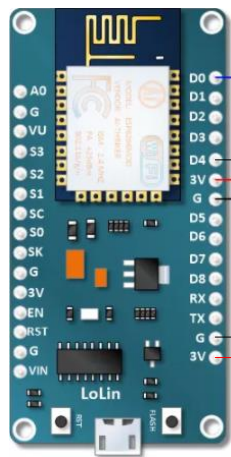
Configuration Management Data Messages To Device Call Method on Device

Actions: Create Refresh Update Delete SAS Token...

Devices: Total: 3

ID	PrimaryKey	SecondaryKey	PrimaryThumb	SecondaryThumb	Connected
temp01	temp01High	temp01Low			Connected
temp02	temp02High	temp02Low			Connected
temp03	temp03High	temp03Low			Connected

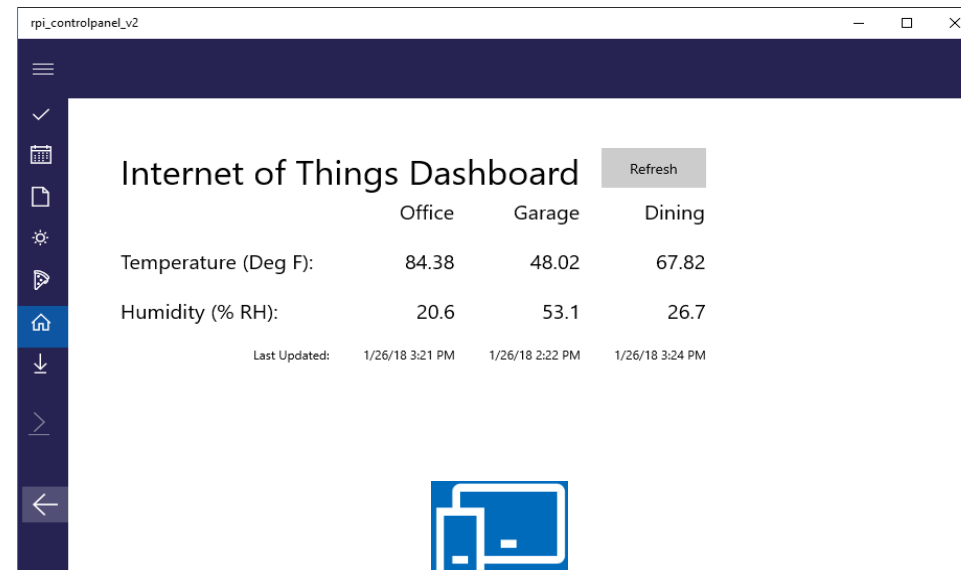
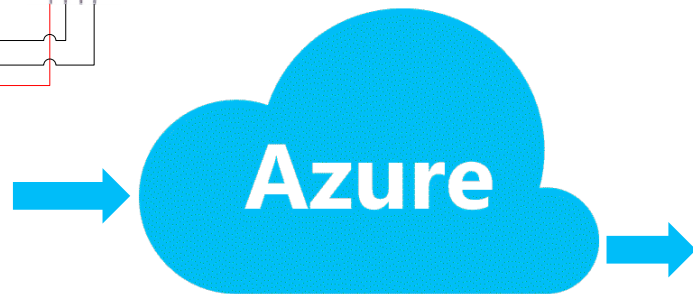




ESP8266 Node MCU



ESP8266



C#/UWP



Visual Studio

Windows IoT



RaspberryPi
version 3B



+ New

Dashboard

Resource groups

All resources

Recent

App Services

Virtual machines (class...

Virtual machines

SQL databases

Cloud services (classic)

Security Center

Subscriptions

Azure Active Directory

Monitor

Cost Management + B...

Help + support

More services >

Dashboard ▾

+ New dashboard

✎ Edit dashboard

🔗 Share

↗ Fullscreen

📄 Clone

🗑 Delete

All resources
ALL SUBSCRIPTIONS

🔄 Refresh

	htsiot2	IoT Hub
	stream170116	Stream Analytics job
	stream171228b	Stream Analytics job
	clt-63aa9d2e-1d24-4182-b364-...	Team Services account
	Default1	App Service plan
	ImageAnalysis	Cognitive Services
	GarageGadgetV2	App Service
	htsiotstorage	Storage account
	portalvhds95fyh4w2jn6lb	Storage account (clas...



Service Health



Marketplace

garagegadgetv2
WEB APP

Running

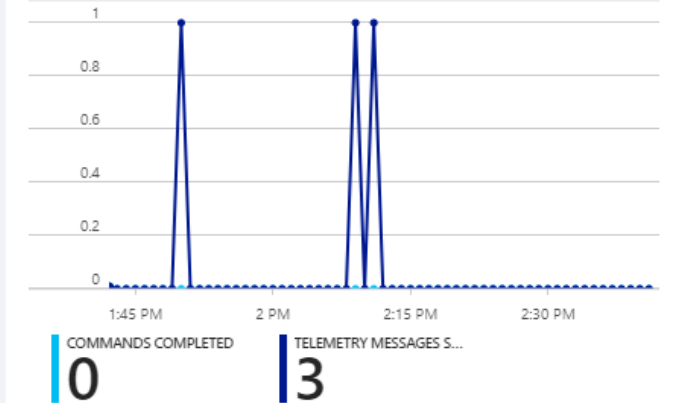
stream170116
STREAMING JOB

htsiotstorage

Available

htsiot2
AZURE IOT HUB

Active

Commands completed and Telemetry messages sent for the past ...
HTSIOT2



Stream
Analytics

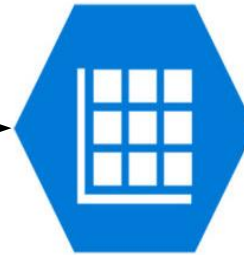
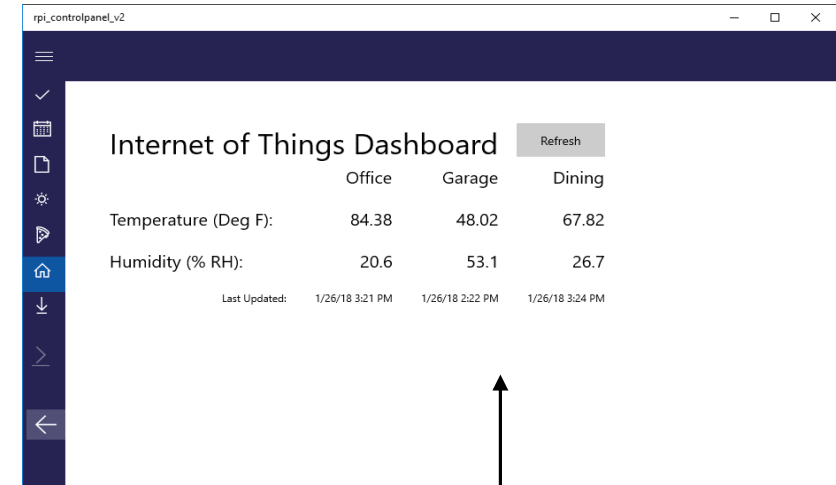


Table Storage



Resources



<https://azure.microsoft.com/en-us/free/?v=18.03>



<https://www.visualstudio.com/>



<https://www.arduino.cc/en/Main/Software>



<https://developer.microsoft.com/en-us/windows/iot>



<https://www.raspberrypi.org/>



<https://www.itead.cc/sonoff-wifi-wireless-switch.html>



<https://smarticase.com/products/smartipi-touch>