

IoT

sensors

actuators

IoT terminology

ZIGBEE - Mesh Network / Z-WAVE / BLUETOOTH LE

IFTTT - if this then that ① free ② simple, easy ③ many recipes ④ support for heterogeneity

MQTT - microcontroller-programmable

(Arduinos) / Raspberry Pi

mix of existing AWS w/ PUB/SUB
lightweight pub/sub, device SDK

Message Queuing Telemetry Transport

WIFI VS (ZIGBEE) 2 months of consumer battery

① POWER

e.g. 1 direction vs. 2 direction

amt of info

freq of msgs

CBT? \$5/mil msg ^{↑ 512,175}

IoT + CLOUD

AWS + IoT

① streaming +/or archival

existing

gaps

② SCALE

1. Kinesis

1. device shadows - last known state

③

2. Lambda

2. rules engine IFTTT-ish

3. S3

3. PUB/SUB - event & topic based

4. S3

5. CloudFormation