

Agenda

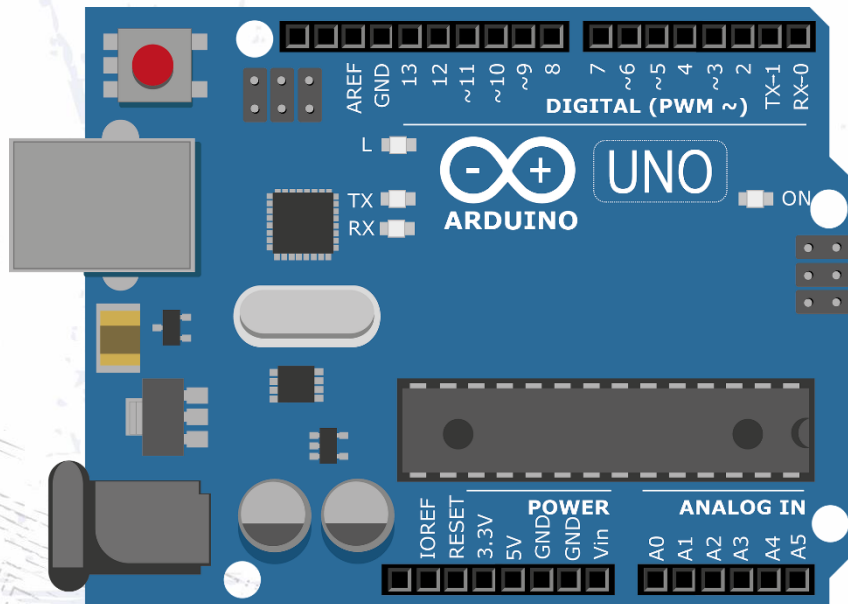
- **Introduction to Arduino**
- **Basic IoT Concepts**
- **Demo 1 – The IoT Hello World**
- **Demo 2 – IoT Visualization**



Arduino

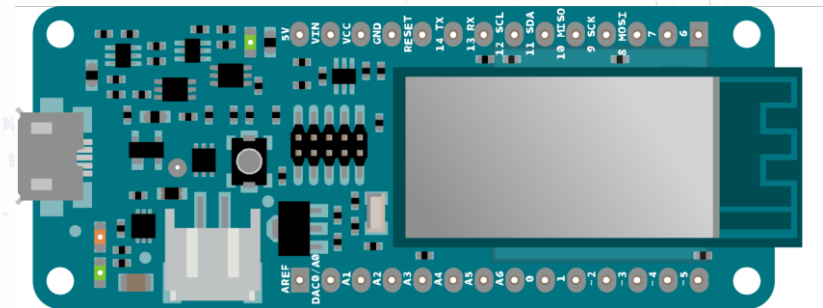
Arduino Uno Rev3

- ATmega328P MCU
- WiFi connectivity can be added through WiFi Shield

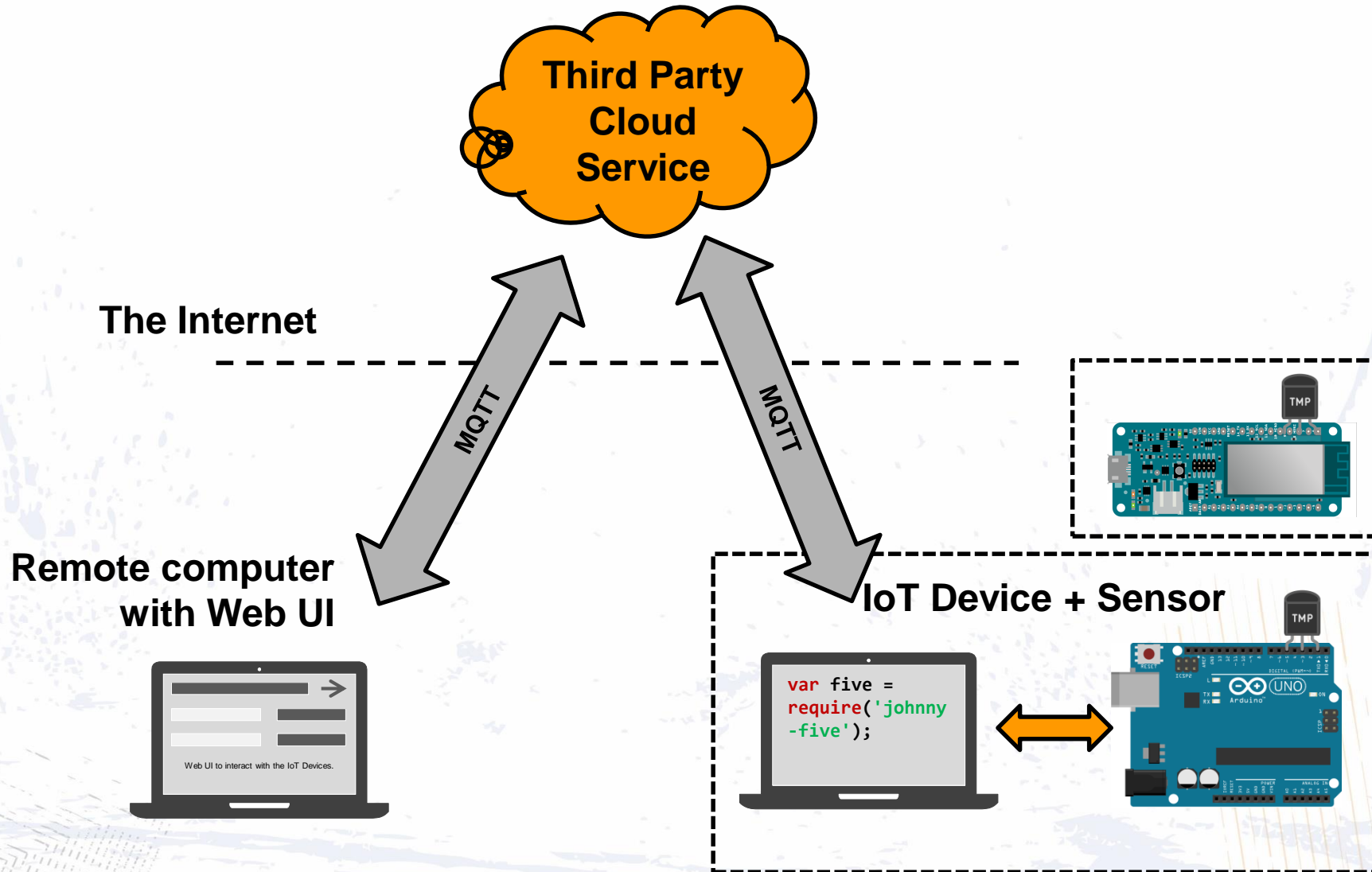


Arduino MKR1000

- **ATSAMW25 SoC**
 - SAMD21 Cortex-M0+ 32bit low power ARM MCU
 - WINC1500 low power 2.4GHz IEEE® 802.11 b/g/n Wi-Fi
 - ECC508 CryptoAuthentication

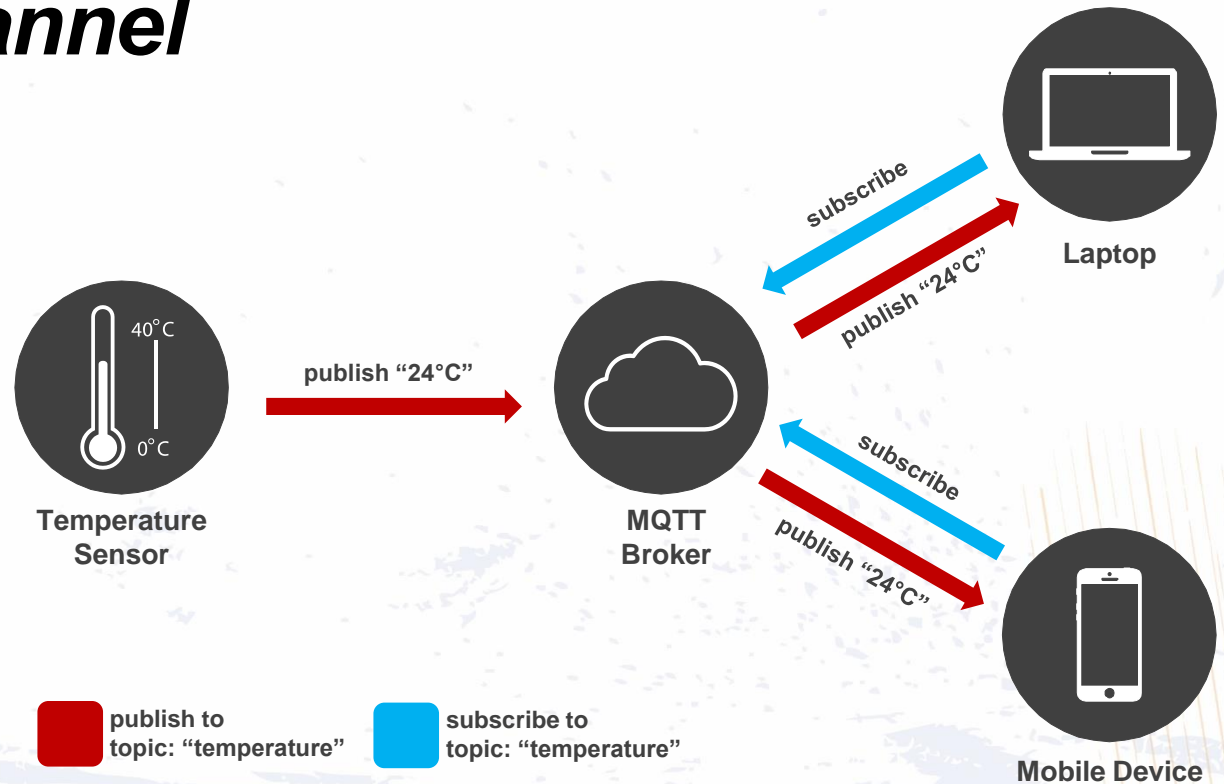


Basic IoT Setup



Pub/Sub Model

- **Clients decoupled via a *Broker***
- **Clients *publish* data or *subscribe* to a *topic/channel***



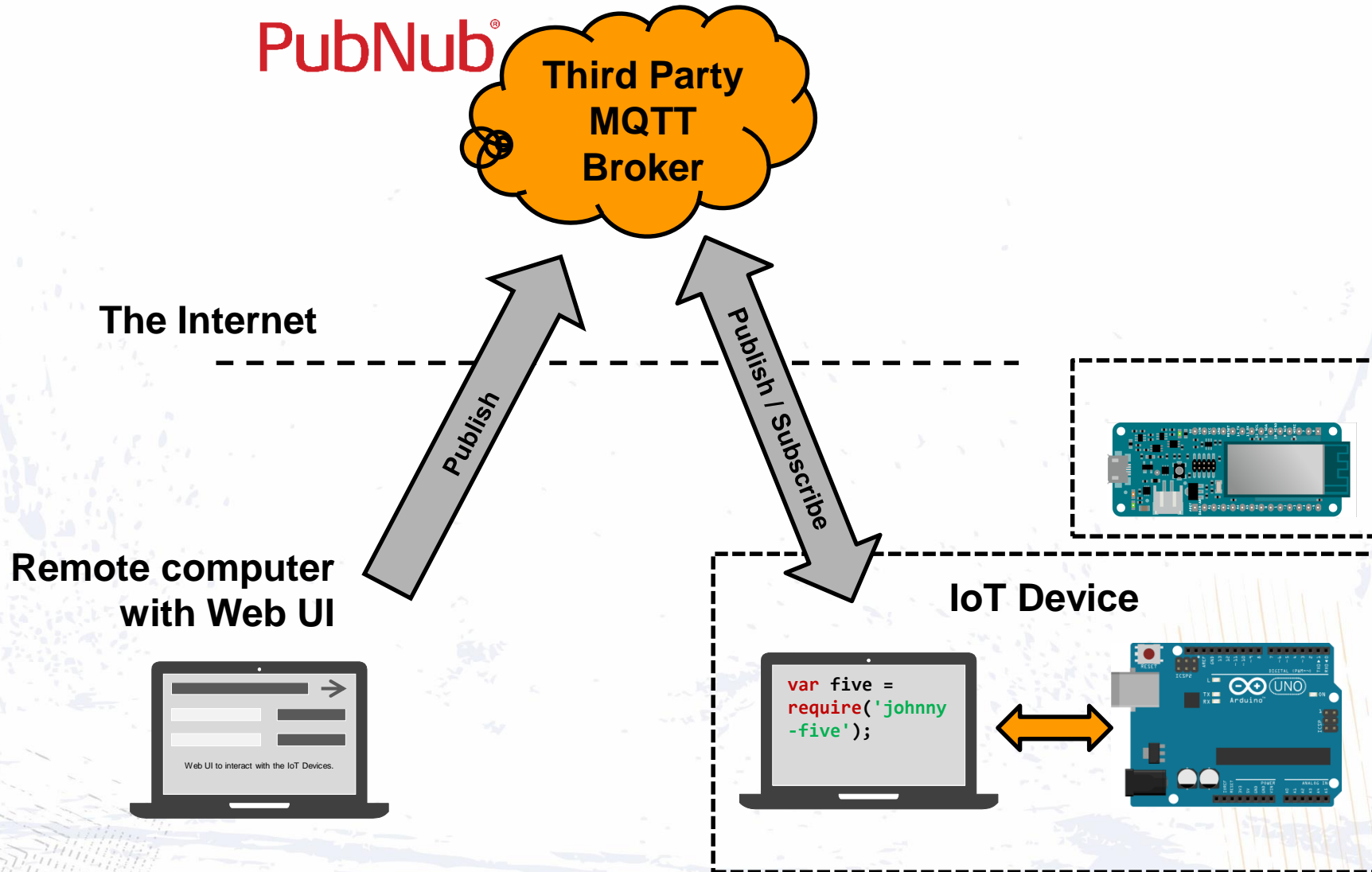


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Demo #1

THE HELLO WORLD OF IOT

Demo #1 Setup



Browser Code Deployed



git.io/fNhj5

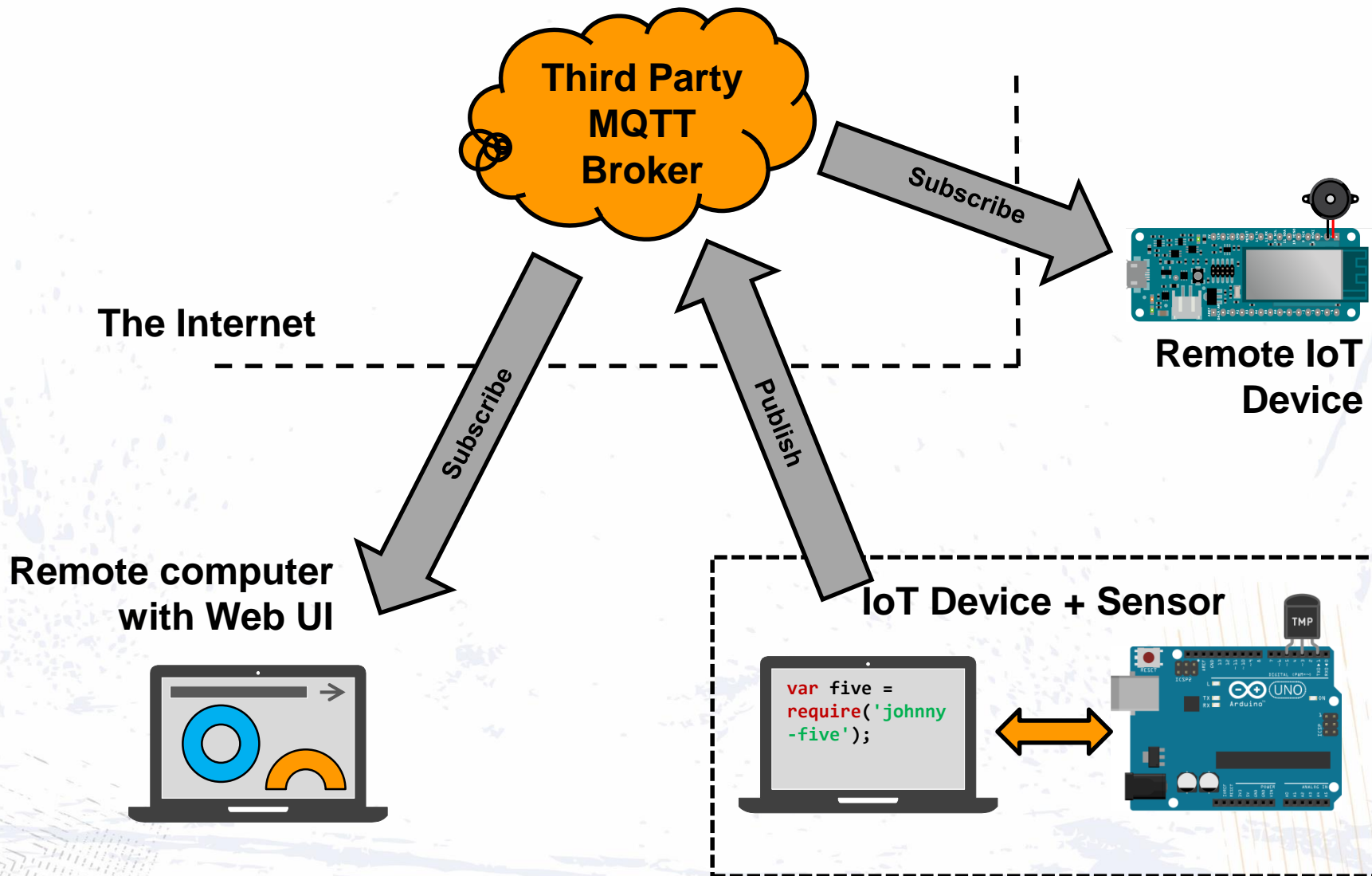


Demo #2

IOT SENSOR DATA VISUALIZATION



Demo #2 Setup



Browser Code Deployed



git.io/fNjef



Summary

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