Welcome to AT&T Hackathon

Overview

In this hackathon you will connect an Arduino Leonardo device to a cloud platform in order to transmit sensor values, receive commands and interact via a REST API to query the sensor values published to the cloud platform.

Quick Start

Step 1:

Download 2lemetry Beta Library and plug in to Arduino IDE. Need more help, refer to the examples under library **Get Library Now !**

Step 2:

- Get started with your "sketch", update the 2lemetry credentials (Username, Pswd, Domain, Device type and Device ID). Need more help, refer to sample sketch for Arduino
- Ready to send message call library methods sendKV or addKVToMessage
- Connect the Arduino and run sketch to send data to AT&T Cloud

Tools for Arduino Development

Arduino Software

Tera Term Terminal for Com Port

Step 3:

- **Retrieve data from AT&T Cloud via API** **Explore API**
  http://att-api.m2m.io/2/auth
  http://att-api.m2m.io/2/account/domain/[domain]/stuff/[stuff]/thing/[thing]/present
  Basic Authentication – Username, Password provided for 2lemetry login

  Tools to retrieve API Data

  RESTClient Add On for Firefox

  Curl Utility for REST API, for Linux, for OSX

  Need Server for API Integration with Your Application

  AT&T Silverlining Cloud Server Instance (Ubuntu Apache Server)

  Server IP, Username, Url and Private Key provided USB Flash Drive

  Tools to connect to Server

  Putty for SSH Client

  WinSCP for FTP

- **Retrieve and Send Real-time live data from AT&T Cloud via MQTT**

  http://mqtt.io
  Server: att-q.m2m.io
  Port: 1883
  Enter credentials under Options tab, Username and Password

  Sample M2M Use Cases

I am hungry for more details…. **Developer Guide**