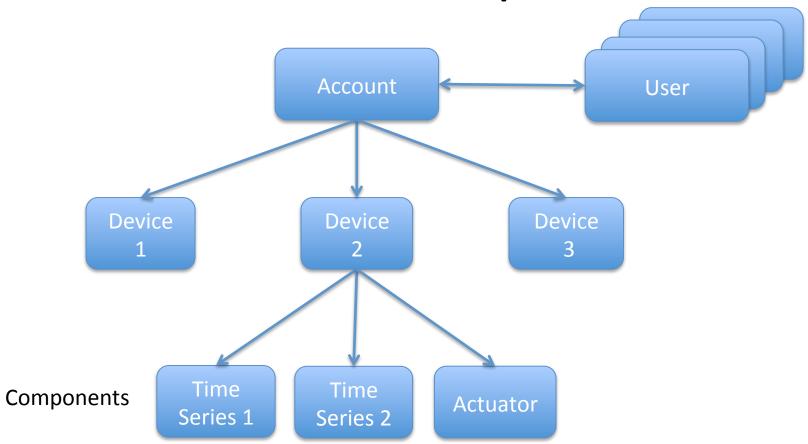
Getting Started with Intel IoT Cloud Analytics

Patrick Holmes

What?

- Send data from your device to the cloud
- Chart your data on the web
- Create rules to watch your data 24x7
 - Sends you alerts when rules fire
- Download your data for further analysis
- REST API

Concepts

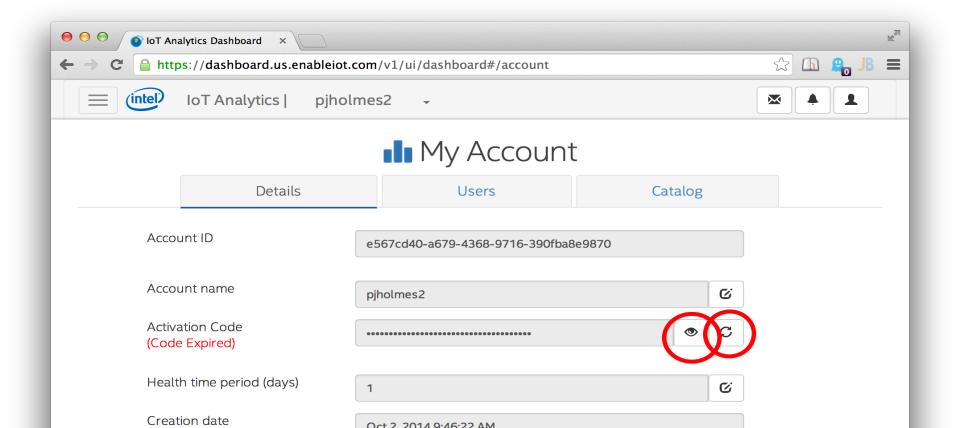


Sign Up

- Go to http://www.enableiot.com
- Click "Sign me up"
- Don't use OAuth buttons
 - If you want to get at your data with REST

Get Activation Code

- Click on Menu in top left and select Account
 - Activation will work for one hour



What's on the board?

- lotkit-admin
 - command line wrapper for REST API
- lotkit-agent
 - helper for constrained environments

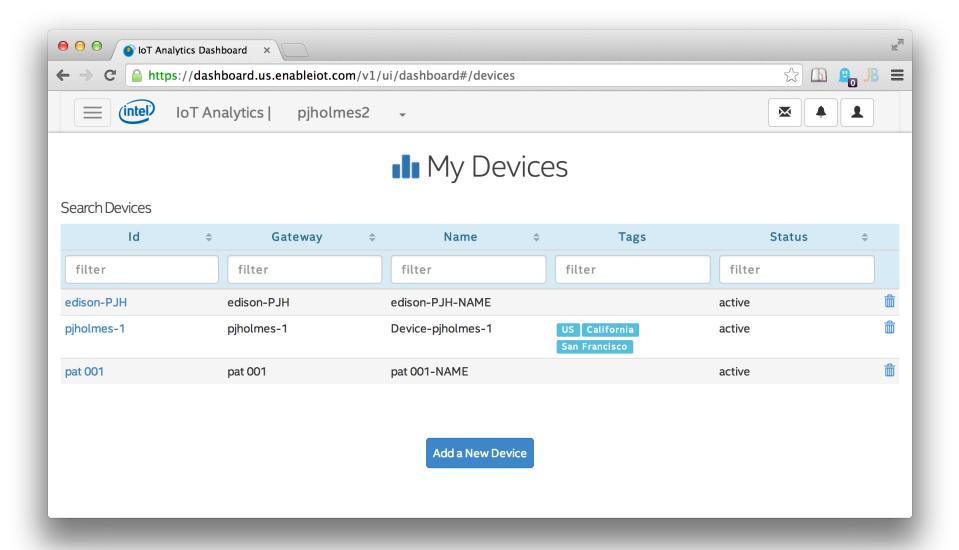
Test for Connectivity

Get a terminal / SSH into your board
iotkit-admin test

Activate

iotkit-admin activate <activation code>

Devices



Add a Time Series

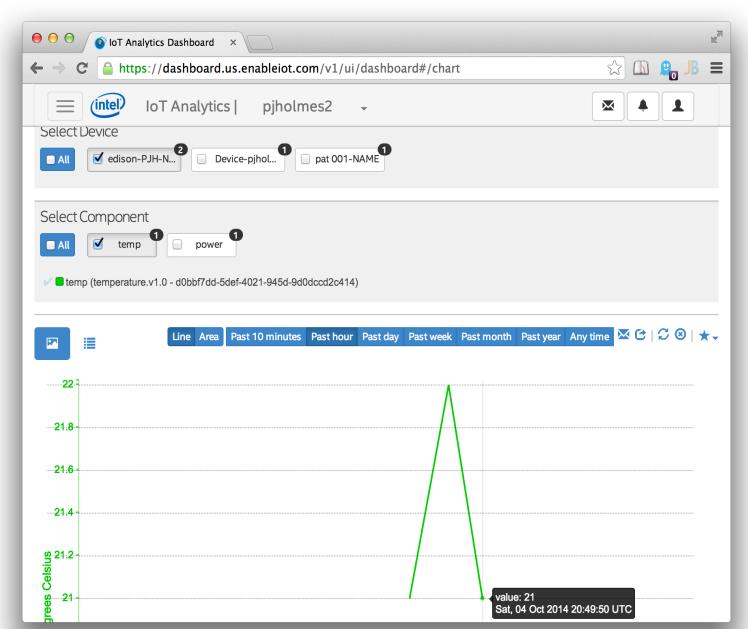
iotkit-admin register temp temperature.v1.0

- The name "temp" is only used by the agent.
- This makes up a ComponentId which is used for REST reference to component

Send a couple of observations

- iotkit-admin observation temp 21
- iotkit-admin observation temp 22
- iotkit-admin observation temp 21

View Chart



More

- Github enableiot
- See samples/api for sample code
 - Python
 - Node.js
- See API Wiki for API Documentation

Advanced Topics

Component Types Account Component Type Catalog Device Device Device 3 humidity. temperature. powerswitch V1.0 V1.0 V1.0

Actuator

Components

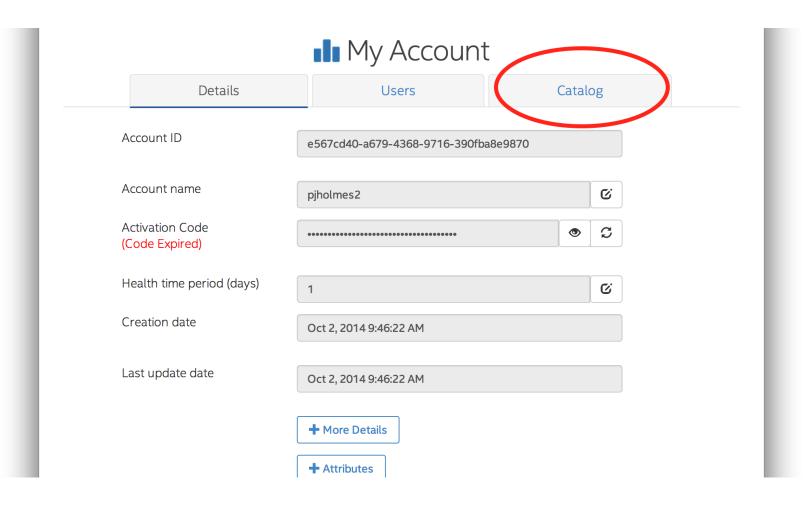
Time

Series 1

Time

Series 2

Create your own Component Type



Time in the REST API

- All times are milliseconds from 1-Jan-1970 00:00:00.000
- Python: time.time() * 1000
- Node.js: new Date().getTime()

Sending Data

- Use a REST client
- Include header "Authorization: Bearer <token>"
 - Get token from the file:
 - /usr/share/iotkit-agent/certs/token.json