Common IoT Development Challenges

Development cycles too long?

Access to devices and resources slowing you down?

Unable to test at scale before going into production?

Finally a solution to overcome these challenges and more!

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The IoT Developer's shared dilemma:

- Physical Devices – Hardware takes up space (ever try to develop on the go?)
- Testing Demands – Do you have access to test at scale?
- Storage Costs – Does your project have the resources to meet your expanding needs?

These challenges will continue to hinder quality development while the IoT development continues to grow at an exponential rate!

*IHS forecasts that the IoT market will grow from an installed base of 15.4 billion devices in 2015 to 30.7 billion devices in 2020 and 75.4 billion in 2025**

*Source: IoT platforms: enabling the Internet of Things, March 2016

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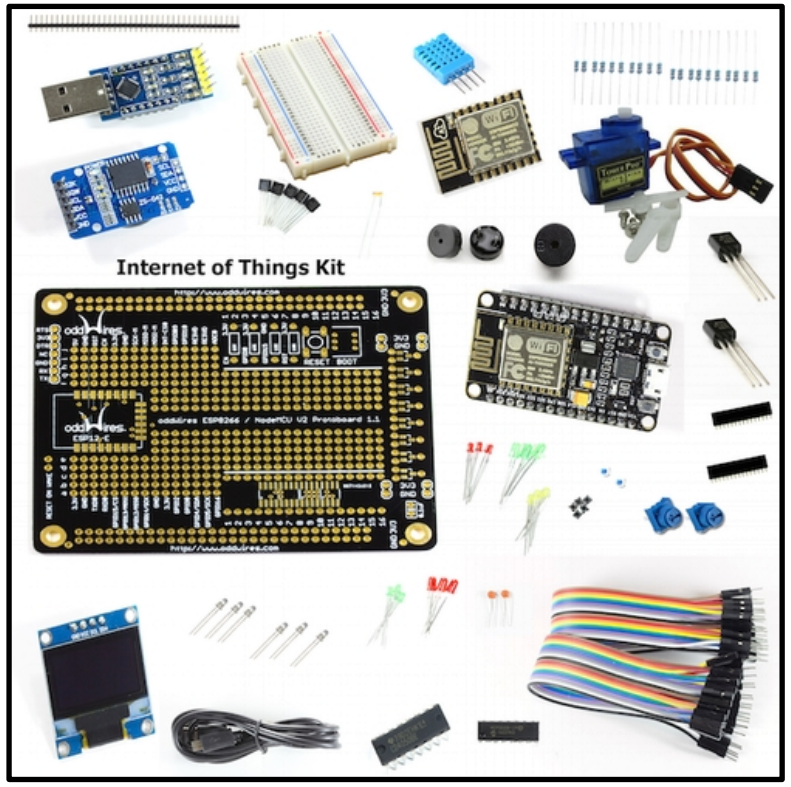
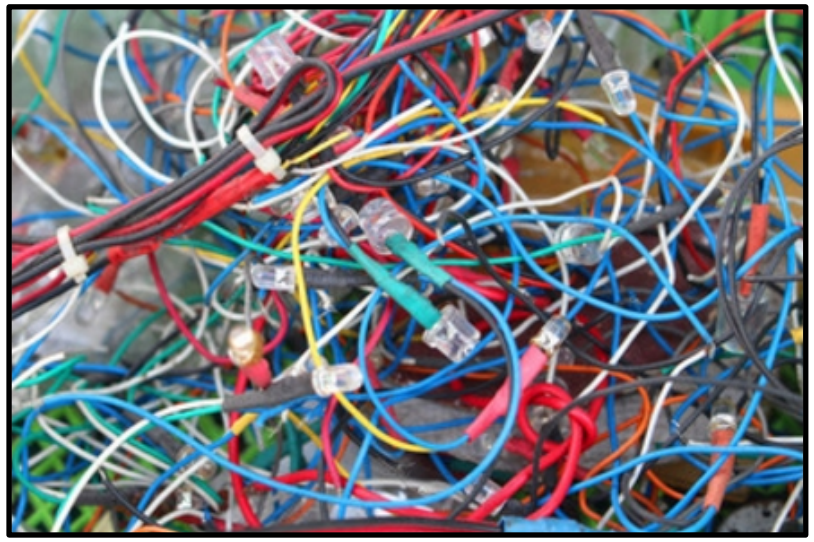
I used to travel with this (have you?):





…just to do basic IoT coding and functional testing!

…**NOT** a lot of fun at the airport.

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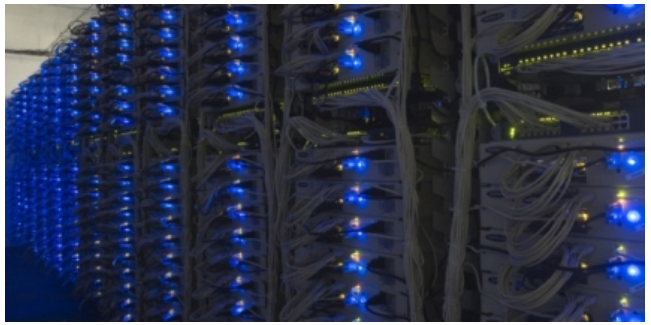
Current state of IoT Development (Look familiar?):

Racks with 100,000+ devices



Storage costs

Set up costs (Human Capital)

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Oh wait, then there's…tear down costs!

…and you still aren't testing at production scale!

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The Problem

- Traditional simulation is highly front loaded, and requires specialty skill sets.
- Emulators are painful to work with and are intended to help with device specific functional tests.
- Neither of these alternative begin to address integration testing.

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helps you eliminate cost and clutter.

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The KnowThings Solution

- Our machine learning based adaptive virtual devices simulate your IoT environment.

- With KnowThings.io, Developers and QA have what they need when they need it at a fraction of the cost of devices.

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Closing thoughts…

- What happens when your device specs and implementation change mid-way through your project?
- How do you properly test at scale without breaking the bank?
- How do you support development teams with hardware as middleware and cloud developers adopt agile methodologies and two week sprints?

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