EE 629 – IoT using Raspberry Pi

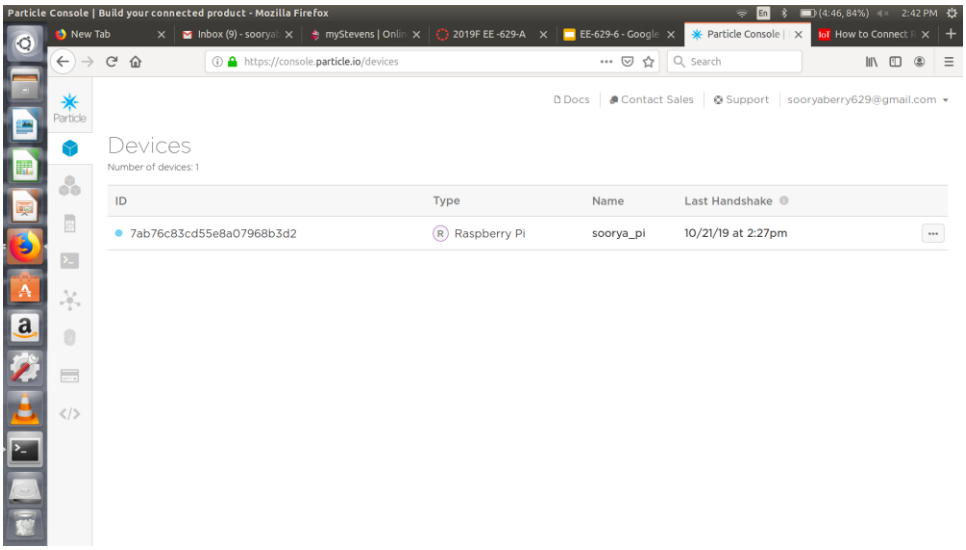
Lesson 6 – Exercises - **Done**

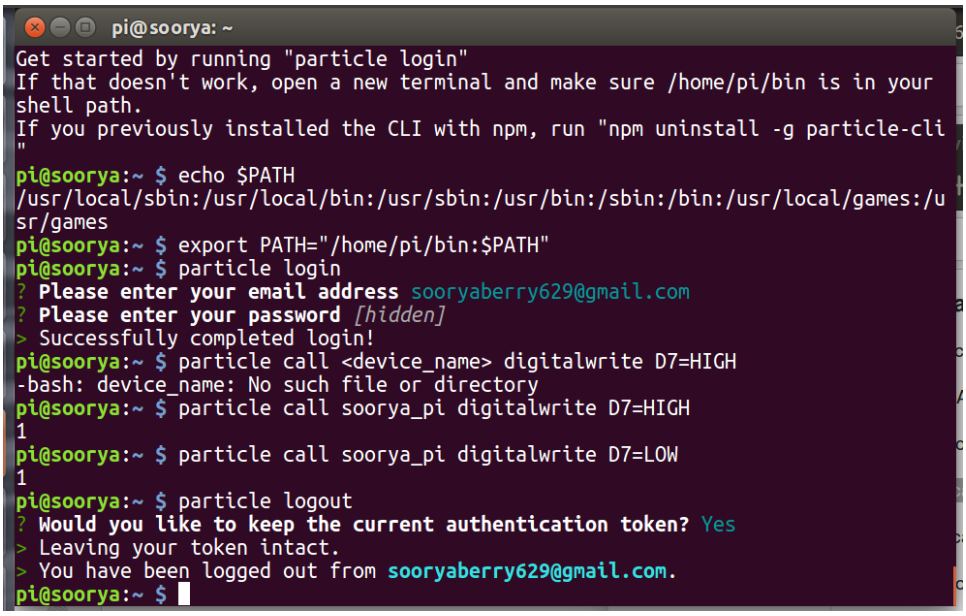
Particle cloud:

The Particle Cloud is the powerful centerpiece of the Particle platform, handling many of the most complex pieces of creating an IoT product.

Lab A: Particle Cloud

- Created a Particle account at https://www.particle.io
- Installed the Particle-Agent on Raspberry Pi, log in the Particle account, and registered Raspberry Pi to the Particle account
- Toggled the green activity LED on Raspberry pi HIGH or LOW





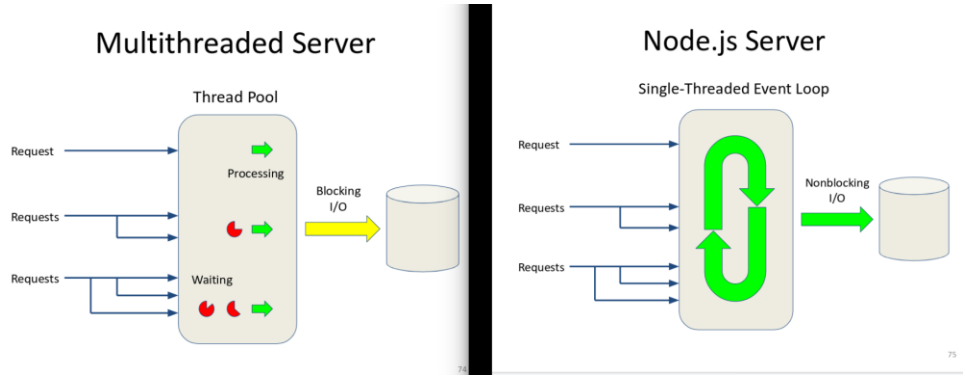
Node.js

Node.js is an open source, cross-platform runtime environment for developing server-side and networking applications. Node.js uses an event-driven, non-blocking I/O model that makes it lightweight and efficient, perfect for data-intensive real-time applications that run across distributed devices. Node.js applications are written in JavaScript, and can be run within the Node.js runtime on OS X, Microsoft Windows, and Linux.

Node.js = Runtime Environment + JavaScript Library

Features:

- Asynchronous and Event Driven
- Very fast and no buffering
- Single Threaded but Highly Scalable



Lab B: Node.js

Ran Node.js server at http://127.0.0.1:8080 on Raspberry Pi