



### Use Case

Homeowner and Guest can control lighting, temperature, and monitor home status via an app. For convenience, users can also ask Alexa to do the same tasks.

### AWS Architecture

App runs on CloudFront/S3, and sends commands to API gateway, which proxies to the Raspberry pi. The pi auto-updates its public IP address via a custom lambda function.

### Home Architecture

Light Switches are GE, and operate on the ZWAVE protocol. Raspberry pi has a zWave USB stick. Additionally, the pi connects to WiFi devices and GPIO devices via hardwire.