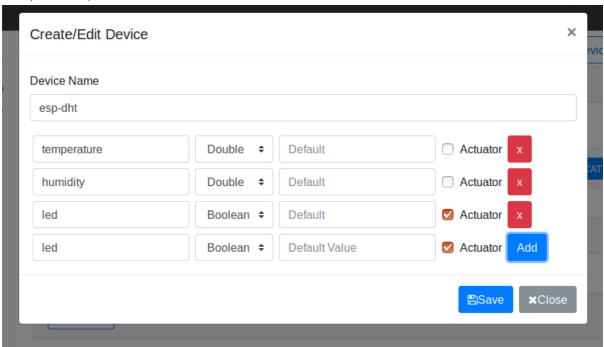
## A Mongoose OS app that sends DHT sensor data to AWS-IOT

## Overview

This is a project to send DHT data to AWS-IOT. It publishes data to a thing shadow in AWS-IOT. It also has a handler to turn on or off the on-board ESP8266 LED.

## Steps:

- 1. Login to IoT dashboard available in following link with the provided user id and password
- 2. Create a thing in the dashboard
- 3. Create devices under thing as:
  - · Temperature, double
  - · Humidity, double
  - · LED, boolean, actuator



4. Download certificates and keep them in a separate folder

5. View the thing properties by clicking GENERATE CLIENT button in dashboard.

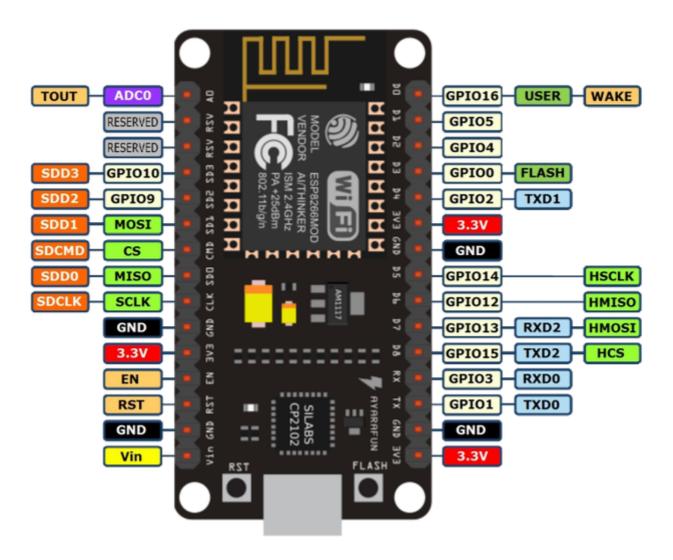


Note the clientID and deviceXX.XX in the pop-up. In later instruction these will be needed in the code.

- 6. In explorer, go to interfacing-AWS-IoT/esp/mongoose/aws-dht-js folder
- 7. Copy downloaded files: certificate.crt.pem, private.key.pem, public.key.pem in aws-dht-js/fs folder
- 8. Edit conf1.json file present in aws-dht-js/fs by replacing "???" with the required values according to thing settings found in step 5.
- 9. Now edit the init.js file by replacing "??.??" with the required values as found in step 5.
- 10. Connect the DHT sensor by connecting:

DHT pins	ESP8266 Dev Kit pins
+	3.3V
out	GPIO5
-	GND

Refer diagram below for pinout of ESP8266 NodeMCU DevKit



- 11. In terminal go to aws-dht-js folder to build and flash the app
- 12. Go to dashboard, check if values are updated and control the led