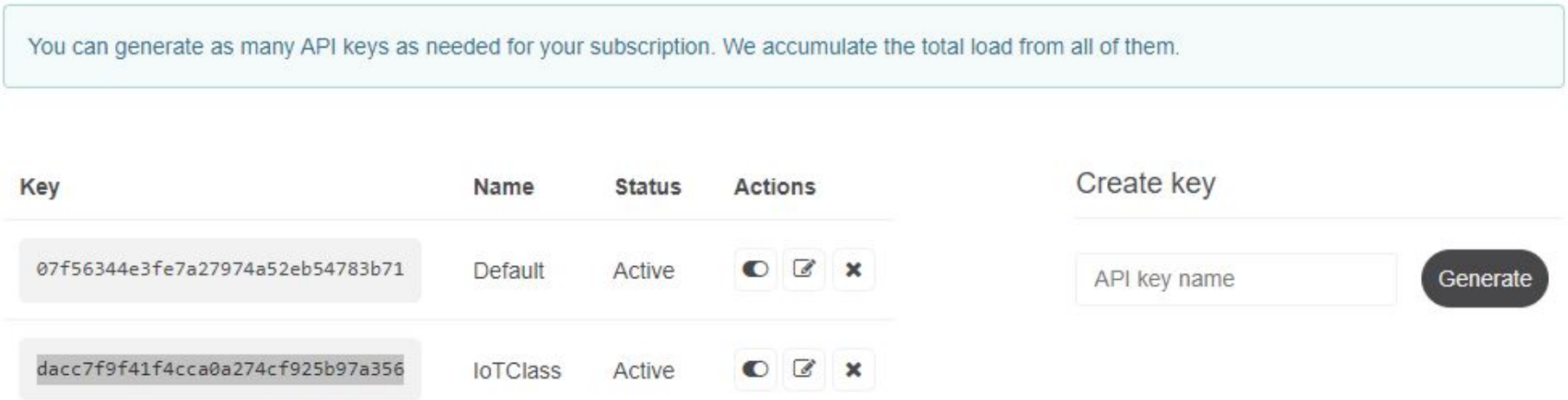
Webhooks

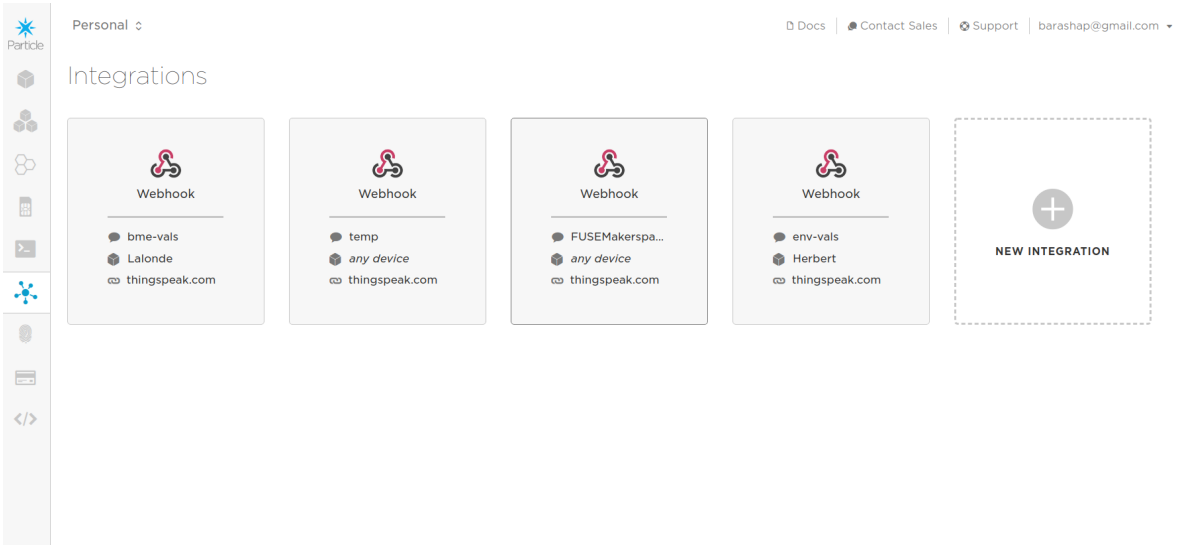
Step 1 - OpenWeather

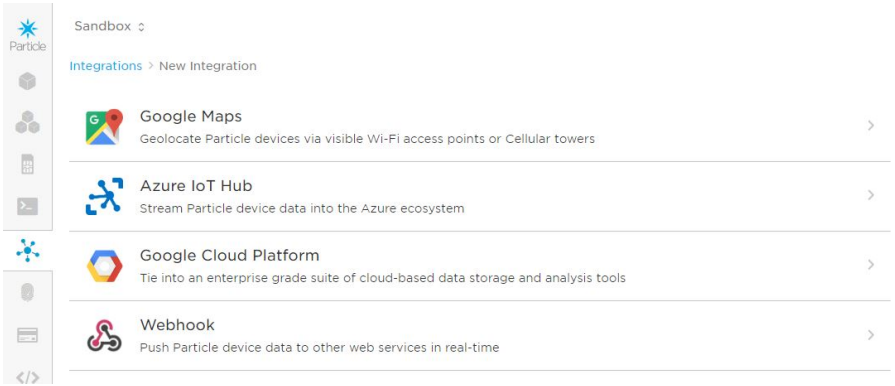
- Create an account at `openweathermap.org`
- Generate an API key at:
  `https://home.openweathermap.org/api_keys`



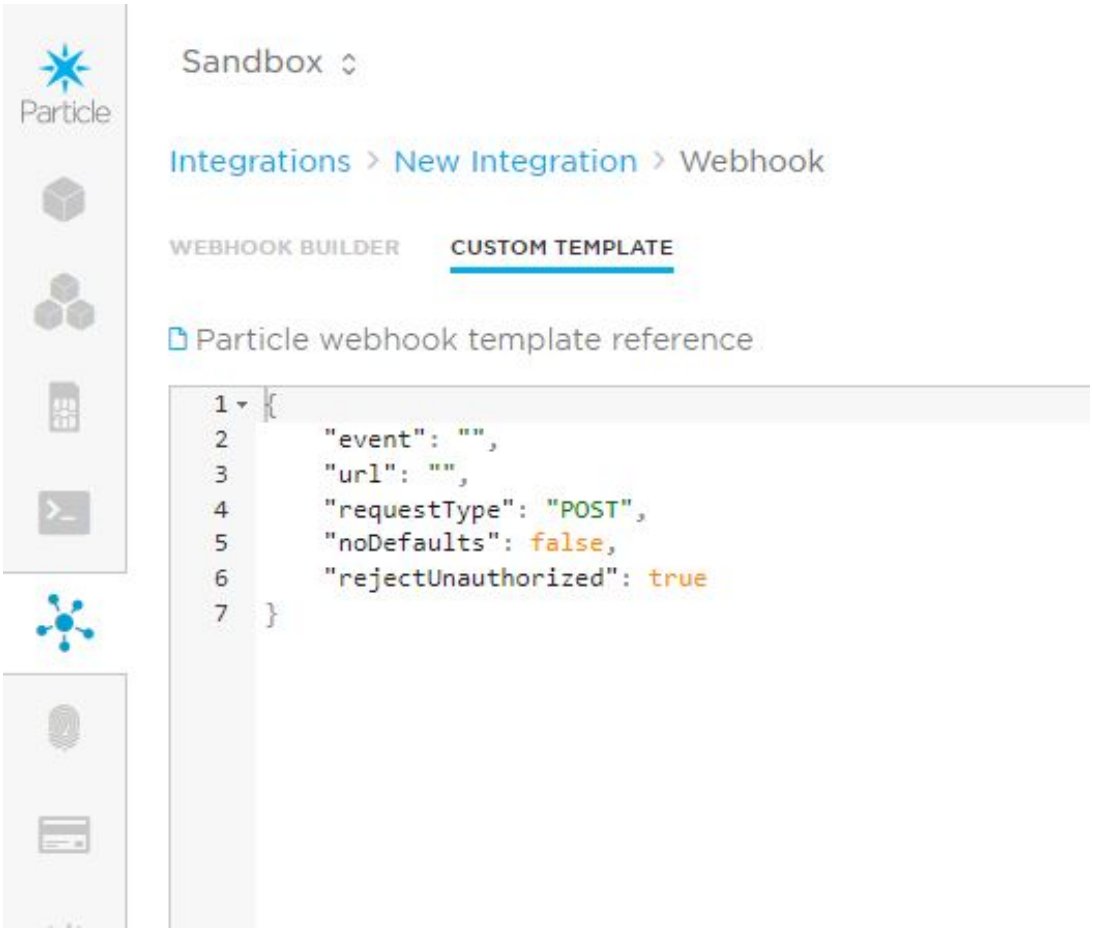
Step 2 - Create Webhook

From `console.particle.io`:





Step 3 - Select Custom Template



Step 4 - Update Custom Template with API format

Adapted from `https://openweathermap.org/api/one-call-api` and `https://openweathermap.org/current`

```
{
    "event": "GetWeatherData",
    "responseTopic": "{{PARTICLE_DEVICE_ID}}/{{PARTICLE_EVENT_NAME}}",
    "url": "https://api.openweathermap.org/data/2.5/onecall",
    "requestType": "GET",
    "noDefaults": true,
    "rejectUnauthorized": true,
    "responseTemplate": "{\"lat\":{{lat}},\"lon\":{{lon}},\"dt\":{{current.dt}},\"temp
     \":{{current.temp}},\"uvi\":{{current.uvi}},\"clouds\":{{current.clouds}},\"ws\":{{
     current.wind_speed}},\"wd\":{{current.wind_deg}} }",
    "query": {
        "lat": "{{lat}}",
        "lon": "{{lon}}",
        "exclude": "minutely,hourly,daily,alerts",
        "units": "metric",
        "appid": "dacc7f9f41f4cca0a274cf925b97a356"
    }
}
```

Step 5 - Particle Argon Code

```
1  const char *EVENT_NAME = "GetWeatherData";
2  unsigned int lastTime;
3  const float lat=35.0045, lon=-106.6465;  //update to your favorite location
4
5  void setup() {
6      Serial.begin(9600);
7      waitFor(Serial.isConnected,15000);
8      String subscriptionName = String::format("%s/%s/", System.deviceID().c_str(),
        EVENT_NAME);
9      Particle.subscribe(subscriptionName, subscriptionHandler, MY_DEVICES);
10     Serial.printf("Subscribing to %s\n", subscriptionName.c_str());
11 }
12
13 void loop() {
14     if((millis() - lastTime) > 60000) {
15         Serial.printf("\n\nTime = %i\n",millis());
16         Particle.publish(EVENT_NAME, "", PRIVATE);
17         Particle.publish(EVENT_NAME, String::format("{\"lat\":%0.5f,\"lon\":%0.5f}", lat,
          lon), PRIVATE);
18         lastTime = millis();
19     }
20 }
21
22 void subscriptionHandler(const char *event, const char *data) {
23     JSONValue outerObj = JSONValue::parseCopy(data);
24     JSONObjectIterator iter(outerObj);
25     while(iter.next()) {
26             Serial.printf("key=%s value=%s\n",(const char *) iter.name(),(const char *)
        iter.value().toString());
27     }
28 }
```