Particle.io Configuration

This document will guide you in setting up your Particle.io account for use with this RFID system project.

As you know, the Argon processor in each RFID Station communicates with other services on the internet via Particle.io cloud webhooks.

A webhook has several options

1. The target URL
2. Target URL parameters
3. Response Event
4. Response format

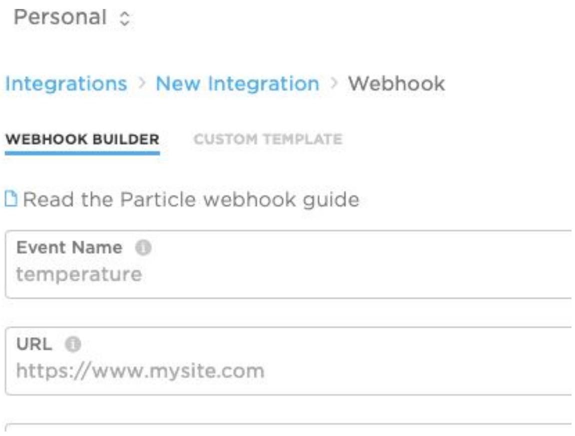
Fortunately, Particle.io allows us to export and import webhooks. We supply a file webhooks.txt that contains several JSON strings. Each JSON string corresponds to one webhook. You will need to copy each JSON string from the file and create a webhook using that JSON.

Then you will need to do some additional configuration of the webhooks. This isn't hard, but you must be precise.

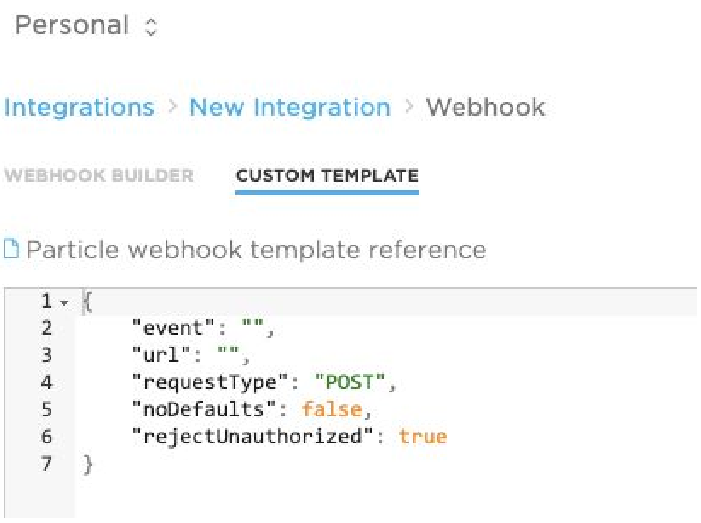
Create First Webhook

Log into your Particle.io account and navigate to the Dashboard. On the left hand menu, click on Integrations.

Click New Integration and select Webhook. You will see the following:



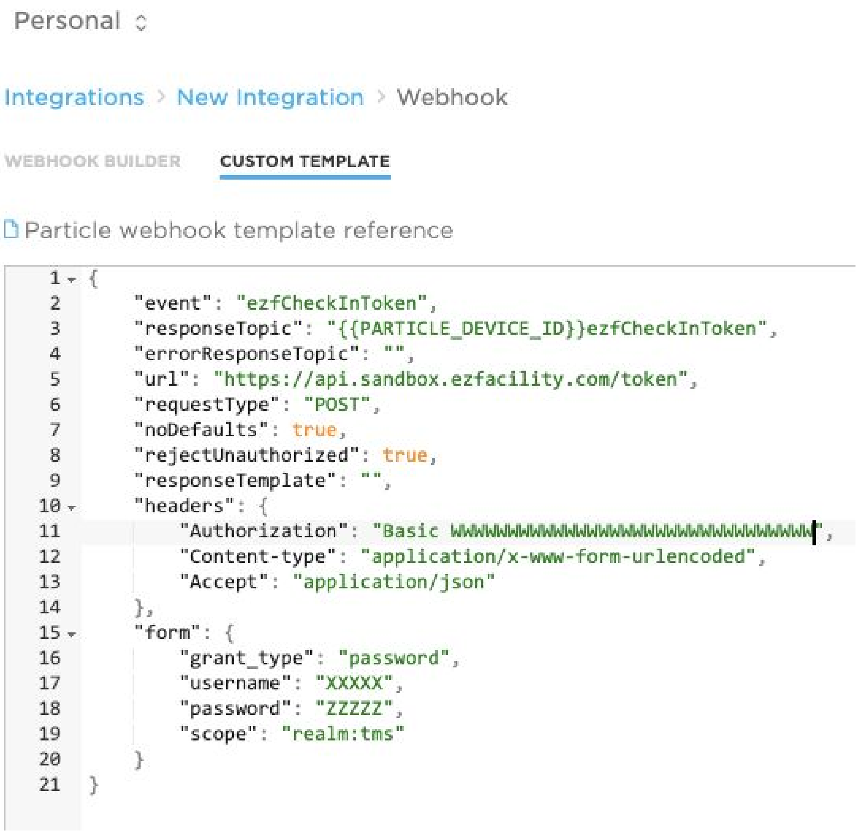
Click on CUSTOM TEMPLATE and see this:



Personal
Integrations > New Integration > Webhook
WEBHOOK BUILDER
CUSTOM TEMPLATE
Particle webhook template reference

```
{
    "event": "",
    "url": "",
    "requestType": "POST",
    "noDefaults": false,
    "rejectUnauthorized": true
}
```

Now copy the first JSON string from the webhooks.txt file and paste it over the JSON in the box. It may look like this:



Personal
Integrations > New Integration > Webhook
WEBHOOK BUILDER
CUSTOM TEMPLATE
Particle webhook template reference

```
{
    "event": "ezfCheckInToken",
    "responseTopic": "{{PARTICLE_DEVICE_ID}}ezfCheckInToken",
    "errorResponseTopic": "",
    "url": "https://api.sandbox.ezfacility.com/token",
    "requestType": "POST",
    "noDefaults": true,
    "rejectUnauthorized": true,
    "responseTemplate": "",
    "headers": {
        "Authorization": "Basic WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW",
        "Content-type": "application/x-www-form-urlencoded",
        "Accept": "application/json"
    },
    "form": {
        "grant_type": "password",
        "username": "XXXXX",
        "password": "ZZZZZ",
        "scope": "realm:tms"
    }
}
```

Modify this JSON in three ways using information you obtained in the process Configuring EZFacility for API Access.

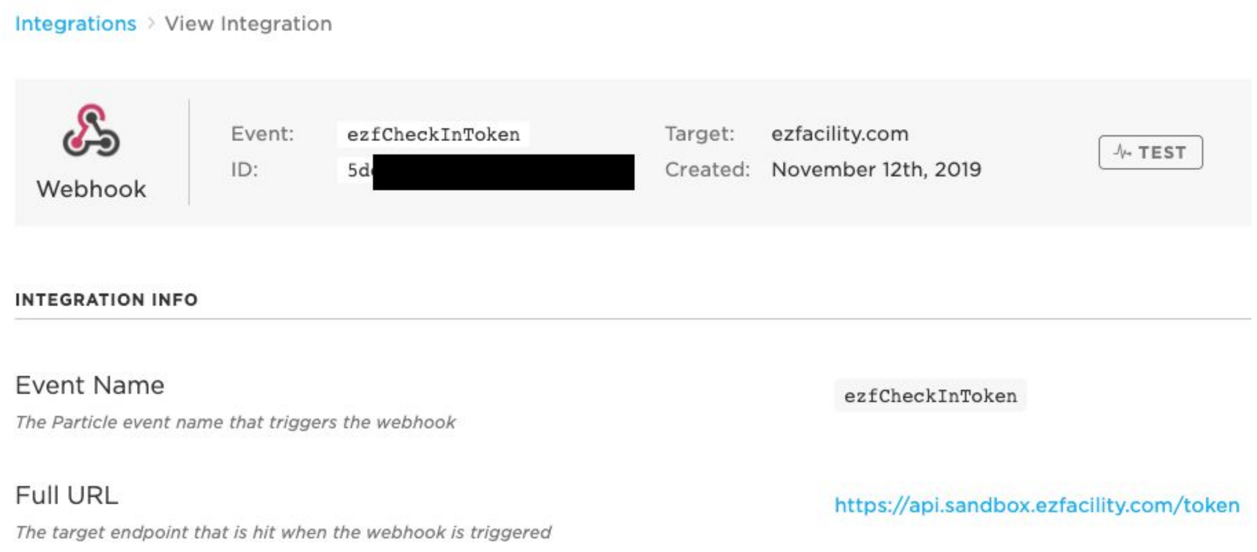
1. Replace the WWWWWWWW with the B64 credential string

2. Replace the XXXXX with your EZFacility User with the API Checkin role.
3. Replace the ZZZZZ with the EZFacility password for this EZFacility User

Note that the URL for this webhook is api.sandbox.ezfacility.com. If you want to run against your Production instance, you will need to modify this to api.ezfacility.com

Click CREATE WEBHOOK

Now you can click the Test button for the webhook. You should get a success pop up. If not, troubleshoot.



Event: ezfCheckInToken
ID: 5d[redacted]
Target: ezfacility.com
Created: November 12th, 2019

INTEGRATION INFO

Event Name
The Particle event name that triggers the webhook
ezfCheckInToken

Full URL
The target endpoint that is hit when the webhook is triggered
https://api.sandbox.ezfacility.com/token

Remaining Webhooks

You create and configure the remaining webhooks in the same way as the last. The only difference is that you will not put the B64 string or EZF User credentials in any other webhook.

Note that the remaining webhooks will not all test correctly. They require parameters that are passed from the Argon when the system is operational.