<u>IOT – final project</u>
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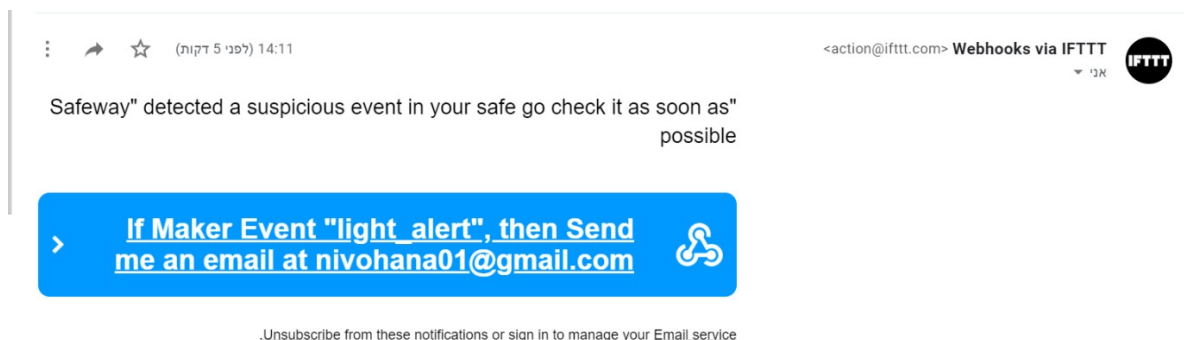For the final project, we have built two application.
Our first application is a security alert on a safe and our second application is checking the temperature condition in the study area.
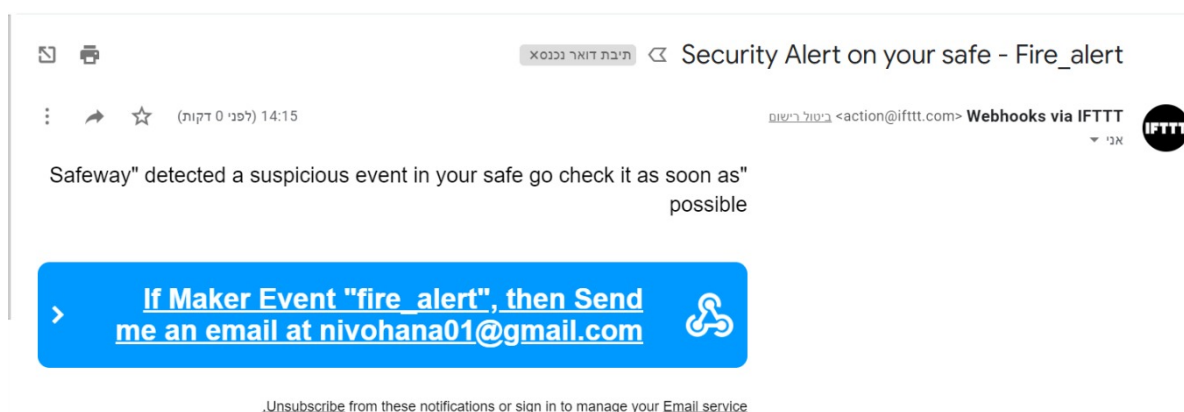
<u>First application: Security alert</u>

"Safeway" is a monitoring system designed for safe's owners and security organization.
The purpose of the system is to help people to secure their important belongings.
The system is using sensors inside the safe that observed environmental changes (fire and light)

We have created a webhook which send to the owner an email alert if there is a change in the light data or if there is a change in the fire data.

This is the email we receive if the average of the light data in the last 5 minutes is above 550, as we defined in the monitor.

This is the email we receive if the average of the fire data in the last 5 minutes is above 130 as we defined in the monitor.

We have create a visualization of the light variable : average of light. This is our histogram according to time (x axis). We try to opened the safe (where we put our raspberry in it). As we can see on the graph there is a meaningful change in the average light when we opened the safe.
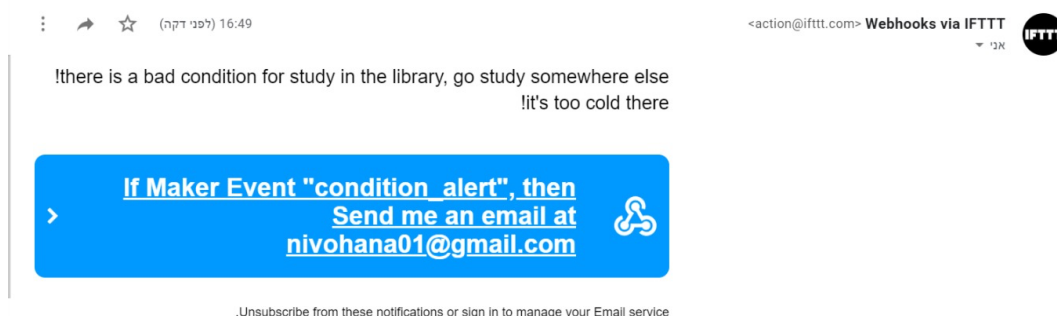

Second application: study temperature condition

This application is using the temperature data. We want to go study in the lab but we don't know if it is too hot or too cold there.

We have created a webhook which is sending us a mail if there are bad conditions: if the temperature is under 20 degree or above 29 degree as we defined in the monitor.

This is the email we will receive if the temperature is under 20 degree:

This is the email we will receive if the temperature is above 29 degree: