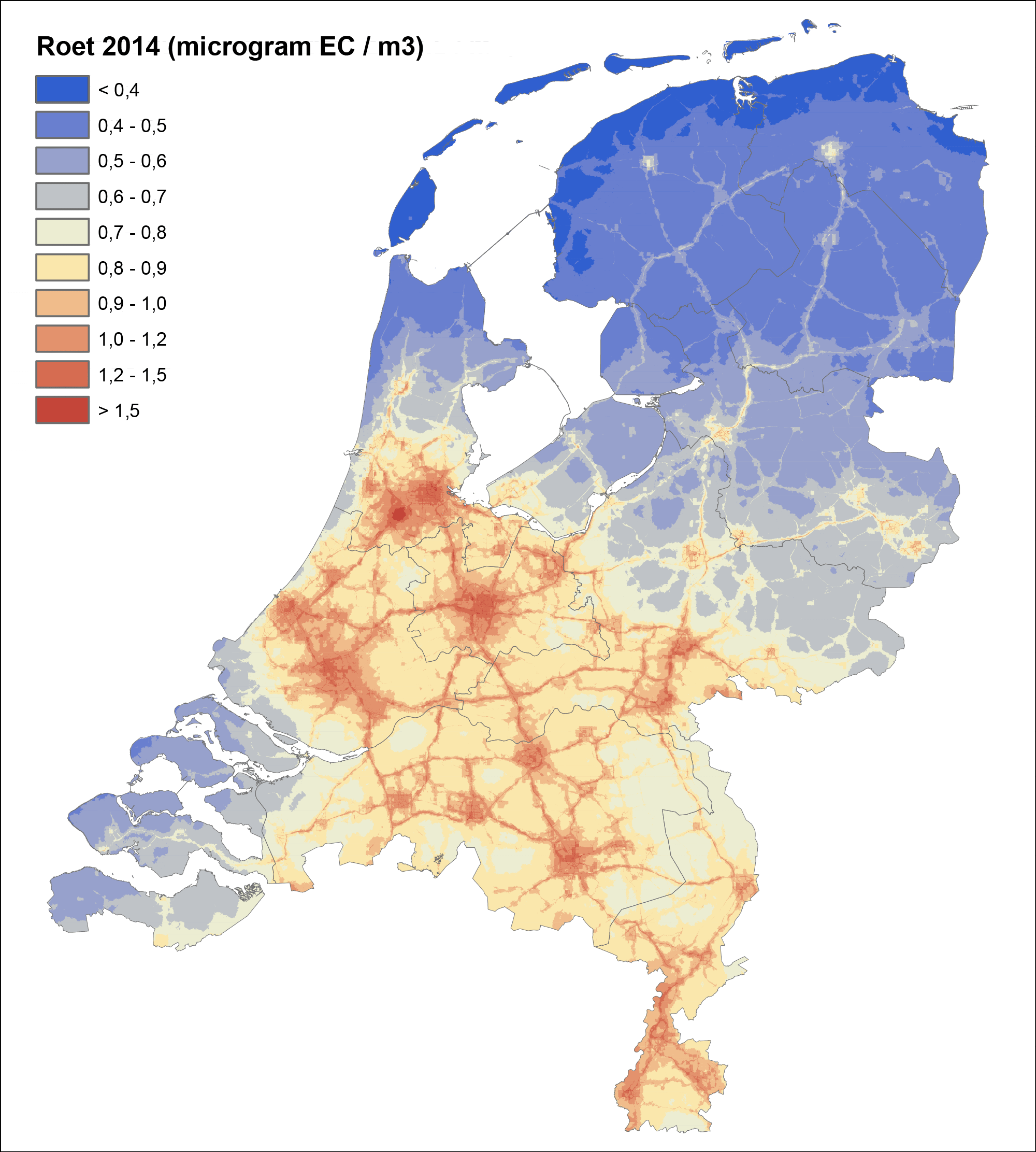
**Motivatie**

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Ik woon naast een doorgaande weg, en iets wat mij zomers altijd opviel was een laagje plakkerig zwart poeder op mijn vensterbank als ik het raam open had gezet. Ik ben er van overtuigd dat dit fijnstof is.

Fijnstof komt veel uit de industrie, houtkachels, veehouderij en het verkeer. Zelf woon ik in een donkeroranje gebied op het kaartje hieronder, dus ik zal zelf flink blootgesteld raken aan fijnstof.

Wat ik dus bij dit vak wil uitlezen is hoeveel fijnstof hier in mijn kamer is.



**Hardware**

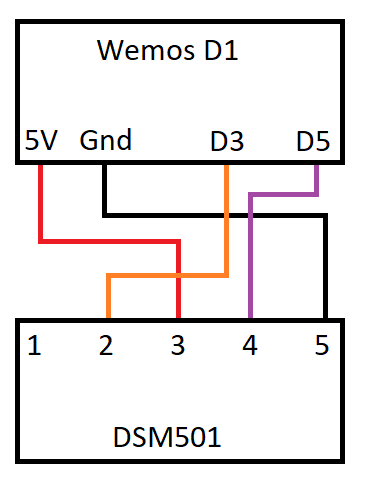
****

Ik begon met bouwen met een Raspberry Pi, omdat dit aangeraden werd. Ik had er Raspbian opgezet en de sensor aangesloten. De pins van de raspberry kunnen maar 3,3v hebben, en uit de sensor komt 5v, dus ik heb de spanning naar beneden gehaald met weerstandjes. Ik was bezig met het schrijven van een Python programma, maar ik kwam er achter dat er uit de sensor een PWM signaal komt, wat de raspberry blijkbaar niet uit kan lezen. Advies op internet was om er nog een arduino tussen te plaatsen om dat signaal uit te lezen, en dan serieel te communiceren met de raspberry.

A picture containing electronics

Description automatically generated

Had ik dat gedaan, was de enige functie van de raspberry nog de verbinding met het internet geweest. Dus in plaats daarvan koos ik voor de Wemos D1, een arduino bordje met een interne wifi chip, de ESP8266. Uit de sensor komen twee PWM signalen, een voor de deeltjes met een diameter van 10µm, en een voor de deeltjes met een diameter van 2,5 µm. Deze zijn aangesloten op pin D3 en D5.



**Software**

Graphical user interface, text, application

Description automatically generated

De code heb ik geschreven in de Arduino IDE. Ik schreef dat een timer continu de metingen uit de sensor uitlas. De waarden worden in de seriële monitor laten zien. Volgens <https://en.wikipedia.org/wiki/Air_quality_index> zijn er meerdere niveaus van luchtvervuiling. Het niveau wordt berekend door middel van een formule op die wikipedia pagina. Het niveau wordt ook laten zien in de terminal.

![Graphical user interface, application

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDgRXhpZgAATU0AKgAAAAgABAE7AAIAAAAHAAAISodpAAQAAAABAAAIUpydAAEAAAAOAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFRvYmlhcwAAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzM0AACSkgACAAAAAzM0AADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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iigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACg8iiigDyzxt8JV8Ta6+p2141pNIAJf3XmK+BgHGRg4wPwrm/wDhQt1/0Gv/ACT/APs693orCWHpyd2j1KWb42jBU4T0Xkv1R4R/woW6/wCg1/5J/wD2dH/Chbr/AKDX/kn/APZ17vRS+rUuxp/beYf8/Pwj/keEf8KFuv8AoNf+Sf8A9nR/woW6/wCg1/5J/wD2de70UfVqXYP7bzD/AJ+fhH/I8I/4ULdf9Br/AMk//s6P+FC3X/Qa/wDJP/7Ovd6KPq1LsH9t5h/z8/CP+R4R/wAKFuv+g1/5J/8A2dH/AAoW6/6DX/kn/wDZ17vRR9Wpdg/tvMP+fn4R/wAjwj/hQt1/0Gv/ACT/APs6P+FC3X/Qa/8AJP8A+zr3eij6tS7B/beYf8/Pwj/keEf8KFuv+g1/5J//AGdH/Chbr/oNf+Sf/wBnXu9FH1al2D+28w/5+fhH/I8I/wCFC3X/AEGv/JP/AOzo/wCFC3X/AEGv/JP/AOzr3eij6tS7B/beYf8APz8I/wCR4R/woW6/6DX/AJJ//Z11fgH4TReFdcGrXV615cRqywjyvLVMjBPU5OCR+NemUVUcPTi7pGdXNsbWg6c56PyX6IKKKK2PLCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD/2Q==)

Voor het versturen van de data naar een server gebruikte ik het MQTT protocol, dit lijkt verreweg het meest gebruikte protocol te zijn, en hier zijn dus ook al libraries voor. Hiervoor had ik wel een zogenaamde MQTT broker nodig. Hier zijn er vele van, maar ik koos HiveMQ, omdat deze gratis is, in tegenstelling tot de meeste concurrenten.

![Graphical user interface, text, application, email

Description automatically 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Qf9+D/APF0eRef8/EH/fg//F1booAqeRef8/EH/fg//F0eRef8/EH/AH4P/wAXVuigCp5F5/z8Qf8Afg//ABdHkXn/AD8Qf9+D/wDF1booAqeRef8APxB/34P/AMXR5F5/z8Qf9+D/APF1booAqeRef8/EH/fg/wDxdHkXn/PxB/34P/xdW6KAKnkXn/PxB/34P/xdHkXn/PxB/wB+D/8AF1booAqeRef8/EH/AH4P/wAXR5F5/wA/EH/fg/8AxdW6KAKnkXn/AD8Qf9+D/wDF0eRef8/EH/fg/wDxdW6KAKnkXn/PxB/34P8A8XR5F5/z8Qf9+D/8XVuigCp5F5/z8Qf9+D/8XR5F5/z8Qf8Afg//ABdW6KAKnkXn/PxB/wB+D/8AF0eRef8APxB/34P/AMXVuigCp5F5/wA/EH/fg/8AxdHkXn/PxB/34P8A8XVuigCp5F5/z8Qf9+D/APF0eRef8/EH/fg//F1booAqeRef8/EH/fg//F0eRef8/EH/AH4P/wAXVuigCp5F5/z8Qf8Afg//ABdHkXn/AD8Qf9+D/wDF1booAqeRef8APxB/34P/AMXR5F5/z8Qf9+D/APF1booAqeRef8/EH/fg/wDxdHkXn/PxB/34P/xdW6KAKnkXn/PxB/34P/xdHkXn/PxB/wB+D/8AF1booAqeRef8/EH/AH4P/wAXT4oblZAZZomXuFiIJ/HcasUUAFFFFABRRRQAVj3/APyGf+2K/wDoTVsVj3//ACGf+2K/+hNTW4mLRRRVCCiCRYtTjaQhVaNkBPTJKkfyNFNdFkXa4yPQ0AbNFc9/Z9v/AM8k/wC+RR/Z9v8A88k/75FKw7nQ0Vz39n2//PJP++RR/Z9v/wA8k/75FFgudDRXPf2fb/8APJP++RR/Z9v/AM8k/wC+RRYLnQ0Vz39n2/8AzyT/AL5FH9n2/wDzyT/vkUWC50NFc9/Z9v8A88k/75FH9n2//PJP++RRYLnQ0Vz39n2//PJP++RR/Z9v/wA8k/75FFgudDRXPf2fb/8APJP++RR/Z9v/AM8k/wC+RRYLnQ0Vz39n2/8AzyT/AL5FH9n2/wDzyT/vkUWC50NFc9/Z9v8A88k/75FH9n2//PJP++RRYLnQ0Vz39n2//PJP++RR/Z9v/wA8k/75FFgudDRXPf2fb/8APJP++RR/Z9v/AM8k/wC+RRYLnQ0Vz39n2/8AzyT/AL5FH9n2/wDzyT/vkUWC50NFc9/Z9v8A88k/75FH9n2//PJP++RRYLnQ0Vz39n2//PJP++RR/Z9v/wA8k/75FFgudDRXPf2fb/8APJP++RR/Z9v/AM8k/wC+RRYLnQ0Vz39n2/8AzyT/AL5FH9n2/wDzyT/vkUWC50NFc9/Z9v8A88k/75FH9n2//PJP++RRYLnQ0Vz39n2//PJP++RR/Z9v/wA8k/75FFgudDRXPf2fb/8APJP++RR/Z9v/AM8k/wC+RRYLnQ0Vz39n2/8AzyT/AL5FH9n2/wDzyT/vkUWC50NFc9/Z9v8A88k/75FH9n2//PJP++RRYLnQ0Vz39n2//PJP++RR/Z9v/wA8k/75FFgudDRXPf2fb/8APJP++RR/Z9v/AM8k/wC+RRYLnQ0Vz39n2/8AzyT/AL5FH9n2/wDzyT/vkUWC50NFc9/Z9v8A88k/75FH9n2//PJP++RRYLnQ0Vz39n2//PJP++RR/Z9v/wA8k/75FFgudDRXPf2fb/8APJP++RR/Z9v/AM8k/wC+RRYLnQ0Vz39n2/8AzyT/AL5FH9n2/wDzyT/vkUWC50NFc9/Z9v8A88k/75FH9n2//PJP++RRYLnQ0Vz39n2//PJP++RR/Z9v/wA8k/75FFgudDRXPf2fb/8APJP++RR/Z9v/AM8k/wC+RRYLnQ0Vz39n2/8AzyT/AL5FH9n2/wDzyT/vkUWC50NFc9/Z9v8A88k/75FH9n2//PJP++RRYLnQ0Vz39n2//PJP++RR/Z9v/wA8k/75FFgudDRXPf2fb/8APJP++RR/Z9v/AM8k/wC+RRYLnQ0Vz39n2/8AzyT/AL5FH9n2/wDzyT/vkUWC50NFc9/Z9v8A88k/75FH9n2//PJP++RRYLnQ0Vz39n2//PJP++RR/Z9v/wA8k/75FFgudDRXPf2fb/8APJP++RR/Z9v/AM8k/wC+RRYLnQ0Vz39n2/8AzyT/AL5FH9n2/wDzyT/vkUWC50NFc9/Z9v8A88k/75FH9n2//PJP++RRYLnQ0Vz39n2//PJP++RR/Z9v/wA8k/75FFgudDRXPf2fb/8APJP++RR/Z9v/AM8k/wC+RRYLnQ0Vz39n2/8AzyT/AL5FH9n2/wDzyT/vkUWC50NFc9/Z9v8A88k/75FH9n2//PJP++RRYLnQ0Vz39n2//PJP++RR/Z9v/wA8k/75FFgudDRXPf2fb/8APJP++RR/Z9v/AM8k/wC+RRYLnQ0Vz39n2/8AzyT/AL5FH9n2/wDzyT/vkUWC50NFc9/Z9v8A88k/75FH9n2//PJP++RRYLnQ0Vz39n2//PJP++RR/Z9v/wA8k/75FFgudDRXPf2fb/8APJP++RR/Z9v/AM8k/wC+RRYLnQ0Vz39n2/8AzyT/AL5FH9n2/wDzyT/vkUWC50NFc9/Z9v8A88k/75FH9n2//PJP++RRYLnQ0Vz39n2//PJP++RR/Z9v/wA8k/75FFgudDRXPf2fb/8APJP++RR/Z9v/AM8k/wC+RRYLnQ0Vz39n2/8AzyT/AL5FH9n2/wDzyT/vkUWC50NFc9/Z9v8A88k/75FH9n2//PJP++RRYLnQ0Vz39n2//PJP++RR/Z9v/wA8k/75FFgudDRXPf2fb/8APJP++RR/Z9v/AM8k/wC+RRYLnQ0Vz39n2/8AzyT/AL5FH9n2/wDzyT/vkUWC50NFc9/Z9v8A88k/75FH9n2//PJP++RRYLnQ0Vz39n2//PJP++RR/Z9v/wA8k/75FFgudDRXPf2fb/8APJP++RR/Z9v/AM8k/wC+RRYLnQ1i3UizauzRkMFjVCR0yCT/AFqD+z7f/nkn/fIqeOJYhhBihILj6KKKYgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD//2Q==)

Ik moest een username en password aanmaken waar de ESP mee kon verbinden. Die gegevens heb ik ingevuld in de code. Daarna werkte de verbinding. Maar de data die naar de server gestuurd werd moest er ook nog afgehaald worden. Daarvoor heb ik Node-Red gebruikt, dat is een interface waar je met blokjes wat kunt “programmeren”. Nadat dat gelukt was en ik overal de juiste gegevens had ingevult verscheen mijn data in de terminal op de website. Ik kan dus met die Node-Red “code” nu op elke computer zien hoe schoon de lucht in mijn kamer is via het internet!

