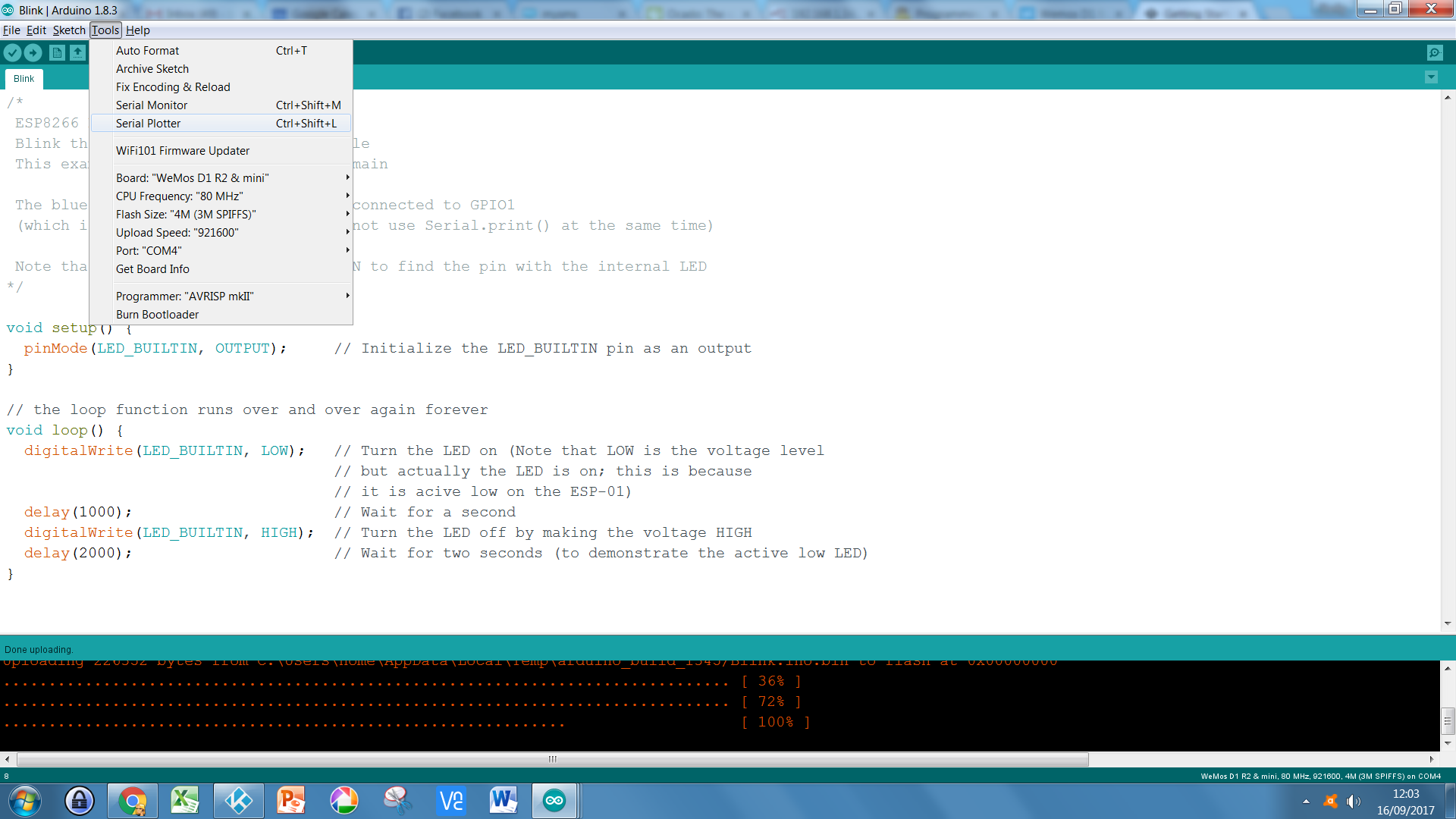
Audrino – D1 setup

*NodeMCU is the same – just change the board type*



LCD display

|  |  |  |  |
| --- | --- | --- | --- |
| **I2C** | **D1 ESP** | **PI** |  |
| GND BROWN | GND |  |  |
| VCC (5V) RED | VIN |  |  |
| SDA YELLOW | D2 |  |  |
| SDL ORANGE | D1 |  |  |



## 

## Bitvise ssh - Root librelec - put tar files into /storage/.update

## Installing the dependencies

First, make sure you have git installed and clone this repository in ~/voice-recognizer-raspi:

sudo apt-get install git

cd

git clone https://github.com/google/aiyprojects-raspbian.git voice-recognizer-raspi

Then, install the project dependencies and setup the services:

cd ~/voice-recognizer-raspi

scripts/install-deps.sh

sudo scripts/install-services.sh

## Installing the Voice HAT driver and config

To use the Voice HAT, you'll need to upgrade your kernel to 4.9, then adjust the kernel and ALSA configuration:

sudo apt-get update

sudo apt-get install raspberrypi-kernel

sudo scripts/configure-driver.sh

sudo scripts/install-alsa-config.sh

sudo reboot

PI Alexa

https://github.com/googlesamples/assistant-sdk-python/blob/master/google-assistant-sdk/googlesamples/assistant/grpc/README.rst

sudo systemctl start AlexaPi.service –l

sudo systemctl disable AlexaPi – stops auto launch on powerup

#### Problems installing?? Add/remove programs via desktop interface

#### Streaming The Camera Video Using RTSP

Enter the following command to start the streaming:

raspivid -o - -t 0 -n | cvlc -vvv stream:///dev/stdin --sout '#rtp{sdp=rtsp://:8554/}' :demux=h264

raspivid is used to capture the video

"-o -" causes the output to be written to stdout

"-t 0" sets the timeout to disabled

"-n" stops the video being previewed (remove if you want to see the video on the HDMI output)

cvlc is the console vlc player

"-vvv" and its argument specifies where to get the stream from

"-sout" and its argument specifies where to output it to

##### Options

Specifying the camera resolution

raspivid -o - -t 0 -n -w 600 -h 400 -fps 12 | cvlc -vvv stream:///dev/stdin --sout '#rtp{sdp=rtsp://:8554/}' :demux=h264

-w

Width available range: 64 to 1920

-h

Height available range: 64 to 1080

-fps

Frames per second: 2 to 30 (may change in the future)

#### Viewing The RTSP Stream Over The Network

You need a player which supports RTSP, for instance VLC, Quicktime, etc.  Open a network stream using

rtsp://###.###.###.###:8554/

where ###.###.###.### is the IP address of the RPi.

Imagemagic – gif creater

chmod u+x autostart.sh

bash -s autostart.sh

systemctl restart kodi

Raspberry PI Info

Login: pi Password: raspberry

Rpi IP address 192.168.1.33

pi3 IP address 192.168.1.34

Vnc login: raspberry

Nano editor – ‘shift + insert’ to copy clipboard

sudo bash – work as root

Sudo nano - editor

sudo reboot

sudo shutdown –h now

sudo nano /etc/inittab - initiation file

pcmanfm – filemanager

leafpad - editor

chmod -R 0777 /mydirectory – grant full read/write

RF433 MHZ

|  |  |  |
| --- | --- | --- |
| SOCKET | ON | OFF |
| 1 | 5330227 | 5330236 |
| 2 | 5330371 | 5330380 |
| 3 | 5330691 | 5330700 |
| 4 | 5332227 | 5332236 |
| 5 | 5338371 | 5338380 |
|  |  |  |

MSB LSB

JSJSLW420

5 330 227 =

10100010101010100110011

12345678901234567890123

HEX

5 330 227 =

0x515533

5 330 236 =

0b10100010101010100111100

40 bit message

1234567890123456789012345678901234567890

#111235190237183123100Lounge\*

The format of the message is as follows

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **DESCRIPTION** | **LENGTH** | **VALUES** | **EXAMPLE** | **NOTES** |
| Start | 1 | # | # | Start with a # |
| Transmitted ID | 18 | [0-9](18) | 111235190237183123 | Has to be 18 chars |
| On/Off | 1 | [0/1] | 1 | 1=on 0=off |
| Dim Level | 2 | [00-31] | 31 | 31 = Max 01 = Min00 = Ignore |
| Description | 15 | [aA-zZ] | Lounge | Up to 15 characters – if more will wrap around |
| End | 1 | \* | \* | End with a \* |

Voltage divider for 433 MHz receiver

‘Execute’ to call python script’

Plotpy!!

WIFI SCAN: nmap

NODE RED - Adding nodes

To add additional nodes you must first install the npm tool, as it is not included in the default installation. The following commands install npm and then upgrade it to the latest 2.x version.

sudo apt-get install npm

sudo npm install -g npm@2.x

hash -r

cd ~/.node-red

npm install node-red-{example node name}

*npm remove node-red-contrib-ui*

*npm install node-red-dashboard –g “-g makes sure it is global!!!”*

/var/www/rfoutlet/codesend {{payload}}

[{"id":"98ffc898.fb2028","type":"bigtimer","z":"9e0c1f4c.20f85","outtopic":"","outpayload1":"5330691","outpayload2":"5330700","name":"Big Timer","lat":"","lon":"","start":"sunrise","end":"sunset","starttime":"1320","endtime":"420","startoff":"0","endoff":"0","offs":"0","outtext1":"5330691","outtext2":"5330700","timeout":"480","sun":true,"mon":true,"tue":true,"wed":true,"thu":true,"fri":true,"sat":true,"jan":true,"feb":true,"mar":true,"apr":true,"may":true,"jun":true,"jul":true,"aug":true,"sep":true,"oct":true,"nov":true,"dec":true,"day1":"0","month1":"0","day2":"0","month2":"0","day3":"0","month3":"0","day4":"0","month4":"0","day5":"0","month5":"0","d1":"0","w1":"0","d2":"0","w2":"0","d3":"0","w3":"0","d4":"0","w4":"0","d5":"0","w5":"0","suspend":false,"random":false,"repeat":true,"atstart":true,"x":199.89999389648438,"y":491.01995849609375,"wires":[["5a2fc396.7f95ac","1e20ff97.1edfe"],["cd773670.5243f8"],[]]}]

ACTUAL

<https://docs.google.com/forms/d/e/1FAIpQLSfnmhkNQw7DwcB1P_6MwF-GnBDVxSxcsZ_stzMNlmV1aH5gzA/viewform?entry.807156642=22&entry.1622051636=55>

[https://docs.google.com/forms/d/e/1FAIpQLSfnmhkNQw7DwcB1P\_6MwF-GnBDVxSxcsZ\_stzMNlmV1aH5gzA/formResponse?entry.807156642={{payload.DP}}&&entry.1622051636=55](https://docs.google.com/forms/d/e/1FAIpQLSfnmhkNQw7DwcB1P_6MwF-GnBDVxSxcsZ_stzMNlmV1aH5gzA/formResponse?entry.807156642=%7b%7bpayload.DP%7d%7d&&entry.1622051636=55)

https://docs.google.com/spreadsheets/d/1zCw11tG5l9Rbwyyp-NsZHi0XPQeqKGxs0KjkmGZsLII/edit#gid=1929980171

EXAMPLE TRANSFORM

<https://docs.google.com/forms/d/>1GYxYrONESHz-SM9nSSmQjlZi\_M-1gN6GknU22S1jdj4/viewform?entry.632411608=25&entry.861197105=10

<https://docs.google.com/forms/d/>1GYxYrONESHz-SM9nSSmQjlZi\_M-1gN6GknU22S1jdj4/formResponse?entry.632411608={{payload.temp1}}&entry.861197105={{payload.temp2}}

https://docs.google.com/spreadsheets/d/1zCw11tG5l9Rbwyyp-NsZHi0XPQeqKGxs0KjkmGZsLII/edit#gid=1929980171

<https://docs.google.com/forms/d/e/1FAIpQLSfnmhkNQw7DwcB1P_6MwF-GnBDVxSxcsZ_stzMNlmV1aH5gzA/viewform?entry.807156642=22&entry.1622051636=55>

KODI

<https://www.youtube.com/watch?v=OxiV3PEBPro> – clear cache etc

ESP8266 Node mcu

http://arduino.esp8266.com/versions/2.0.0/package\_esp8266com\_index.json,http://arduino.esp8266.com/stable/package\_esp8266com\_index.json

<https://github.com/esp8266/arduino>

<https://www.youtube.com/watch?v=NEo1WsT5T7s>

NODE RED – heating

[{"id":"b5fc28c1.acd9d8","type":"exec","z":"9e0c1f4c.20f85","command":" ","addpay":true,"append":"-u","useSpawn":"","timer":"10","name":"command","x":1338.1854248046875,"y":505.7856903076172,"wires":[[],[],[]]},{"id":"ed7f63bc.11561","type":"template","z":"9e0c1f4c.20f85","name":"Send RF code","field":"payload","fieldType":"msg","format":"handlebars","syntax":"mustache","template":"/var/www/rfoutlet/codesend {{payload.Code}}","x":1117.7169971466064,"y":322.21710872650146,"wires":[["4de2b818.661aa8"]]},{"id":"4de2b818.661aa8","type":"exec","z":"9e0c1f4c.20f85","command":" ","addpay":true,"append":"-u","useSpawn":"","timer":"10","name":"command","x":1373.9671440124512,"y":320.3957042694092,"wires":[[],[],[]]},{"id":"14d3786b.22b458","type":"function","z":"9e0c1f4c.20f85","name":"Combine & calc dew point","func":"// initialise the counter to 0 if it doesn't exist already\n//var count = context.get('count')||0;\nvar old\_temp = context.get('old\_temp')||20;\nvar old\_RH = context.get('old\_RH')||50;\nvar Temp = msg.payload.Temp; \nvar RH = msg.payload.RH; \nvar time = msg.payload.Time;\n\nif (Temp >-99) { \n} else {\nTemp=old\_temp; \n}\n//\nif (RH > -99) {\n} else {\nRH=old\_RH;\n}\n\nvar dewpoint = Temp - ((100-RH)/5);\ncontext.set('old\_temp',Temp);\ncontext.set('old\_RH',RH);\nif (time>0) {\nmsg.payload= {\"Time\":time,\"DP\":dewpoint,\"RH\":RH,\"Temp\":Temp};\nmsg.topic=\"inside\";\n//return msg,Temp,RH,msg.payload.Temp;\n//msg.payload.DP=Tnew;\nreturn msg;\n}","outputs":1,"noerr":0,"x":847.3998413085938,"y":65.96427917480469,"wires":[["b596b324.7f05f","eecd8c94.82767","baa6ce32.d657d","c1432acf.ab52e8"]]},{"id":"a1013184.a30d6","type":"openweathermap","z":"9e0c1f4c.20f85","name":"Cheltenham weather","wtype":"current","lon":"","lat":"","city":"Cheltenham","country":"GB","language":"en","x":169.5428695678711,"y":376.33714842796326,"wires":[["8391472f.9432c8"]]},{"id":"8391472f.9432c8","type":"function","z":"9e0c1f4c.20f85","name":"Calc outside\_dewpoint","func":"// initialise the counter to 0 if it doesn't exist already\n//var count = context.get('count')||0;\n//count += 1;\n// store the value back\n//context.set('count',count);\n// make it part of the outgoing msg object\n//var newmsg={ payload: msg.payload.length };\nvar dewpoint = msg.payload.tempc - ((100-msg.payload.humidity)/5);\nmsg.payload= {\"outside\_dp\":dewpoint};\nmsg.topic=\"outside\";\nreturn msg;","outputs":1,"noerr":0,"x":420.0742645263672,"y":379.7885456085205,"wires":[["224eb041.489e1","c1432acf.ab52e8"]]},{"id":"224eb041.489e1","type":"template","z":"9e0c1f4c.20f85","name":"Strip outside\_dp","field":"payload","fieldType":"msg","format":"handlebars","syntax":"mustache","template":"{{payload.outside\_dp}}","x":1117.217128753662,"y":376.3599739074707,"wires":[["43205ef3.341c8"]]},{"id":"be9d772e.7d1818","type":"function","z":"9e0c1f4c.20f85","name":"Temp message","func":"temp=msg.payload;\nmsg.payload={\"Temp\":temp};\nmsg.topic=\"temp\";\nreturn msg;","outputs":1,"noerr":0,"x":644.1499710083008,"y":131.22857666015625,"wires":[["14d3786b.22b458","7fb6c43c.0c61bc"]]},{"id":"98ffc898.fb2028","type":"bigtimer","z":"9e0c1f4c.20f85","outtopic":"","outpayload1":"4","outpayload2":"99","name":"Fan Timer","lat":"","lon":"","start":"sunrise","end":"sunset","starttime":"540","endtime":"1290","startoff":"0","endoff":"0","offs":"0","outtext1":"4","outtext2":"99","timeout":"480","sun":true,"mon":true,"tue":true,"wed":true,"thu":true,"fri":true,"sat":true,"jan":true,"feb":true,"mar":true,"apr":true,"may":true,"jun":true,"jul":true,"aug":true,"sep":true,"oct":true,"nov":true,"dec":true,"day1":"0","month1":"0","day2":"0","month2":"0","day3":"0","month3":"0","day4":"0","month4":"0","day5":"0","month5":"0","d1":"0","w1":"0","d2":"0","w2":"0","d3":"0","w3":"0","d4":"0","w4":"0","d5":"0","w5":"0","suspend":false,"random":false,"repeat":true,"atstart":true,"x":199.89999389648438,"y":491.01995849609375,"wires":[["31fcbca5.6ad634"],[],[]]},{"id":"45ea9e2b.99f2f","type":"ui\_button","z":"9e0c1f4c.20f85","name":"","group":"547a5309.6d686c","order":0,"width":"1","height":"1","label":"off","color":"","icon":"","payload":"off","payloadType":"str","topic":"","x":55,"y":499.9199905395508,"wires":[["98ffc898.fb2028","aacdbc1c.6b771"]]},{"id":"38e0f416.cd7cfc","type":"ui\_button","z":"9e0c1f4c.20f85","name":"","group":"547a5309.6d686c","order":0,"width":"1","height":"1","label":"on","color":"","icon":"","payload":"on","payloadType":"str","topic":"","x":55,"y":552.5999755859375,"wires":[["98ffc898.fb2028","aacdbc1c.6b771"]]},{"id":"d268cb06.63f978","type":"ui\_button","z":"9e0c1f4c.20f85","name":"","group":"547a5309.6d686c","order":0,"width":"1","height":"1","label":"auto","color":"","icon":"","payload":"auto","payloadType":"str","topic":"","x":55,"y":593.7199401855469,"wires":[["98ffc898.fb2028","aacdbc1c.6b771"]]},{"id":"aacdbc1c.6b771","type":"ui\_text","z":"9e0c1f4c.20f85","group":"547a5309.6d686c","order":0,"width":"2","height":"1","name":"Mode","label":"","format":"{{msg.payload}}","layout":"row-spread","x":244.75704956054688,"y":581.7999382019043,"wires":[]},{"id":"cd773670.5243f8","type":"ui\_text","z":"9e0c1f4c.20f85","group":"547a5309.6d686c","order":0,"width":"1","height":"1","name":"Status","label":"","format":"{{msg.payload}}","layout":"row-spread","x":1154.2171630859375,"y":552.0055999755859,"wires":[]},{"id":"8d01145c.467a68","type":"exec","z":"9e0c1f4c.20f85","command":"sudo /home/pi/Adafruit\_Python\_DHT/examples/AdafruitDHT.py 2302 4","addpay":false,"append":"","useSpawn":false,"timer":"","name":"Read RH","x":287.39996337890625,"y":245.46419525146484,"wires":[["457929e6.3192d8","a6e48b37.a7bc28"],[],[]]},{"id":"457929e6.3192d8","type":"exec","z":"9e0c1f4c.20f85","command":"sudo /home/pi/Adafruit\_Python\_DHT/examples/AdafruitDHT\_temp.py 2302 4","addpay":false,"append":"","useSpawn":false,"timer":"","name":"Read Temp","x":295.8599548339844,"y":170.61002349853516,"wires":[["37d96321.9ad76c"],[],[]]},{"id":"a6e48b37.a7bc28","type":"function","z":"9e0c1f4c.20f85","name":"Calibrate RH","func":"var old\_RH =msg.payload;\nvar correction=(1+((100-old\_RH)\*-0.25)/old\_RH);\nvar old=old\_RH;\nvar RH = correction\*old;\nmsg.payload=RH;\nreturn msg;","outputs":1,"noerr":0,"x":455.03858184814453,"y":241.60006618499756,"wires":[["5ea6163.8393fe8","ed47e3e9.e9c46"]]},{"id":"37d96321.9ad76c","type":"function","z":"9e0c1f4c.20f85","name":"Calibrate temp","func":"//var old\_temp =msg.payload;\nvar correction= -0.2;\nvar old\_temp =parseFloat(msg.payload);\nvar temp = old\_temp+correction;\nmsg.payload=temp;\nmsg.topic=\"temp\"\nreturn msg;","outputs":1,"noerr":0,"x":476.04991149902344,"y":175.51431274414062,"wires":[["be9d772e.7d1818","b6268c65.cb8a3"]]},{"id":"5ea6163.8393fe8","type":"function","z":"9e0c1f4c.20f85","name":"Set RH","func":"RH=msg.payload;\nmsg.payload={\"RH\":RH};\nmsg.parts=3;\nreturn msg;","outputs":1,"noerr":0,"x":633.7285614013672,"y":242.05001831054688,"wires":[["14d3786b.22b458"]]},{"id":"398e2c9c.e8b714","type":"inject","z":"9e0c1f4c.20f85","name":"Sense rate","topic":"","payload":"","payloadType":"date","repeat":"180","crontab":"","once":true,"x":94.85999298095703,"y":248.83999633789062,"wires":[["457929e6.3192d8","8d01145c.467a68","a1013184.a30d6"]]},{"id":"3840c470.45d74c","type":"function","z":"9e0c1f4c.20f85","name":"Log Time","func":"time=msg.payload;\nmsg.payload={\"Time\":time};\nmsg.topic=\"time\";\nreturn msg;","outputs":1,"noerr":0,"x":483.35997009277344,"y":88.36000061035156,"wires":[["14d3786b.22b458"]]},{"id":"66fbbacb.f46c04","type":"inject","z":"9e0c1f4c.20f85","name":"Log rate","topic":"","payload":"","payloadType":"date","repeat":"600","crontab":"","once":true,"x":86.36000061035156,"y":187.36000061035156,"wires":[["3840c470.45d74c"]]},{"id":"b596b324.7f05f","type":"function","z":"9e0c1f4c.20f85","name":"Strip RH","func":"RH=msg.payload.RH;\nmsg.topic=\"RH\";\nmsg.payload=RH;\nreturn msg;","outputs":1,"noerr":0,"x":1107.680046081543,"y":122.85000705718994,"wires":[[]]},{"id":"eecd8c94.82767","type":"function","z":"9e0c1f4c.20f85","name":"Strip DP","func":"DP=msg.payload.DP;\nmsg.payload=DP;\nmsg.topic=\"DP\";\nreturn msg;","outputs":1,"noerr":0,"x":1110.1599731445312,"y":161.60000610351562,"wires":[["43205ef3.341c8"]]},{"id":"baa6ce32.d657d","type":"function","z":"9e0c1f4c.20f85","name":"Strip Temp","func":"Temp=msg.payload.Temp;\nmsg.topic=\"Temp\";\nmsg.payload=Temp;\nreturn msg;","outputs":1,"noerr":0,"x":1117.39990234375,"y":237.3599853515625,"wires":[["43205ef3.341c8"]]},{"id":"b6268c65.cb8a3","type":"ui\_text","z":"9e0c1f4c.20f85","group":"ed44a21d.66196","order":0,"width":"2","height":"1","name":"","label":"Temp","format":"{{msg.payload|number: 1}}","layout":"row-spread","x":643.7000122070312,"y":178.2499771118164,"wires":[]},{"id":"ed47e3e9.e9c46","type":"ui\_text","z":"9e0c1f4c.20f85","group":"ed44a21d.66196","order":0,"width":"2","height":"1","name":"","label":"RH","format":"{{msg.payload|number: 1}}","layout":"row-spread","x":639.2000312805176,"y":329.50000762939453,"wires":[]},{"id":"7fb6c43c.0c61bc","type":"function","z":"9e0c1f4c.20f85","name":"Heating logic","func":"// initialise the counter to 0 if it doesn't exist already\n//var count = context.get('count')||0;\nvar old\_temp = context.get('old\_temp')||20;\nvar old\_Tset = context.get('old\_Tset')||20;\nvar Temp = msg.payload.Temp; \nvar Tset = msg.payload.Tset; \n\n//var Tset = 20.5;\nvar Heating= 0;\nvar Code = 5332236;\n\nif (Temp >-99) { \n} else {\nTemp=old\_temp; \n}\nif (Tset >-99) { \n} else {\nTset=old\_Tset; \n}\n\n\nif (Temp >Tset) { \n Heating=0;\n ;\n} else {\nHeating =1;\nCode=5332227\n}\ncontext.set('old\_temp',Temp);\ncontext.set('old\_Tset',Tset);\nmsg.payload={\"Heating\":Heating,\"Temp\":Temp,\"Tset\":Tset,\"Code\":Code};\nmsg.topic=\"heating\";\n//return msg,Temp,RH,msg.payload.Temp;\n//msg.payload.DP=Tnew;\nreturn msg;","outputs":1,"noerr":0,"x":874.4500198364258,"y":129.94998168945312,"wires":[["7d818e1d.63802","ed7f63bc.11561","ab5c0157.a717d","43205ef3.341c8"]]},{"id":"86455e76.d237d","type":"function","z":"9e0c1f4c.20f85","name":"Tset message","func":"Tset=msg.payload;\nmsg.payload={\"Tset\":Tset};\nmsg.topic=\"Tset\";\nreturn msg;","outputs":1,"noerr":0,"x":564.7999725341797,"y":20,"wires":[["7fb6c43c.0c61bc"]]},{"id":"7d818e1d.63802","type":"function","z":"9e0c1f4c.20f85","name":"Strip Heating","func":"Heating=msg.payload.Heating;\nmsg.topic=\"Heating\";\nmsg.payload=Heating;\nreturn msg;","outputs":1,"noerr":0,"x":1116.5999755859375,"y":275.44996643066406,"wires":[["d1f305bc.981088","43205ef3.341c8"]]},{"id":"d1f305bc.981088","type":"ui\_text","z":"9e0c1f4c.20f85","group":"5bafe634.2d5e08","order":0,"width":"1","height":"1","name":"Heating","label":"","format":"{{msg.payload}}","layout":"row-left","x":1399.3831787109375,"y":253.6166763305664,"wires":[]},{"id":"578cf38b.355cdc","type":"bigtimer","z":"9e0c1f4c.20f85","outtopic":"","outpayload1":"20.0","outpayload2":"10","name":"Heating Timer","lat":"","lon":"","start":"sunrise","end":"sunset","starttime":"360","endtime":"1320","startoff":"0","endoff":"0","offs":"0","outtext1":"20.0","outtext2":"10","timeout":"480","sun":true,"mon":true,"tue":true,"wed":true,"thu":true,"fri":true,"sat":true,"jan":true,"feb":true,"mar":false,"apr":false,"may":false,"jun":false,"jul":false,"aug":false,"sep":false,"oct":true,"nov":true,"dec":true,"day1":"0","month1":"0","day2":"0","month2":"0","day3":"0","month3":"0","day4":"0","month4":"0","day5":"0","month5":"0","d1":"0","w1":"0","d2":"0","w2":"0","d3":"0","w3":"0","d4":"0","w4":"0","d5":"0","w5":"0","suspend":false,"random":false,"repeat":true,"atstart":true,"x":219.89999389648438,"y":27.5,"wires":[["86455e76.d237d"],[],[]]},{"id":"c5ae68db.5f4338","type":"ui\_button","z":"9e0c1f4c.20f85","name":"","group":"5bafe634.2d5e08","order":0,"width":"1","height":"1","label":"off","color":"","icon":"","payload":"off","payloadType":"str","topic":"","x":55,"y":36.40003204345703,"wires":[["578cf38b.355cdc","d98bc310.f6d75"]]},{"id":"47b5724c.b4b34c","type":"ui\_button","z":"9e0c1f4c.20f85","name":"","group":"5bafe634.2d5e08","order":0,"width":"1","height":"1","label":"on","color":"","icon":"","payload":"on","payloadType":"str","topic":"","x":55,"y":89.08001708984375,"wires":[["578cf38b.355cdc","d98bc310.f6d75"]]},{"id":"a6aca6bd.c20698","type":"ui\_button","z":"9e0c1f4c.20f85","name":"","group":"5bafe634.2d5e08","order":0,"width":"1","height":"1","label":"auto","color":"","icon":"","payload":"auto","payloadType":"str","topic":"","x":55,"y":130.19998168945312,"wires":[["578cf38b.355cdc","d98bc310.f6d75"]]},{"id":"d98bc310.f6d75","type":"ui\_text","z":"9e0c1f4c.20f85","group":"5bafe634.2d5e08","order":0,"width":"1","height":"1","name":"Mode","label":"","format":"{{msg.payload}}","layout":"row-left","x":233.89984130859375,"y":97.27996826171875,"wires":[]},{"id":"ab5c0157.a717d","type":"function","z":"9e0c1f4c.20f85","name":"Strip Tset","func":"Tset=msg.payload.Tset;\nmsg.topic=\"Tset\";\nmsg.payload=Tset;\nreturn msg;","outputs":1,"noerr":0,"x":1109.333251953125,"y":200.59999084472656,"wires":[["43205ef3.341c8"]]},{"id":"c1432acf.ab52e8","type":"function","z":"9e0c1f4c.20f85","name":"Fan logic","func":"// initialise the counter to 0 if it doesn't exist already\n//var count = context.get('count')||0;\nvar old\_DPO = context.get('old\_DPO')||20;\nvar old\_DPI = context.get('old\_DPI')||20;\nvar old\_DPset = context.get('old\_DPset')||20;\n\nvar DPI = msg.payload.DP; \nvar DPO = msg.payload.outside\_dp; \nvar DPset = msg.payload.DPset; \n\n\n//var Tset = 20.5;\nvar Fan= 0;\nvar Code = 5330700;\n\nif (DPO >-99) { \n} else {\nDPO=old\_DPO; \n}\nif (DPI >-99) { \n} else {\nDPI=old\_DPI; \n}\nif (DPset >-99) { \n} else {\nDPset=old\_DPset; \n}\n\nDPdiff =DPI-DPO;\n\nif (DPI>9) {\nif (DPdiff <DPset) { \n Fan=0;\n} else {\nFan =1;\nCode=5330691;\n}\n}\n\ncontext.set('old\_DPO',DPO);\ncontext.set('old\_DPI',DPI);\ncontext.set('old\_DPset',DPset);\nmsg.payload={\"Fan\":Fan,\"DPO\":DPO,\"DPI\":DPI,\"Code\":Code,\"DPset\":DPset};\nmsg.topic=\"fan\";\n//return msg,Temp,RH,msg.payload.Temp;\n//msg.payload.DP=Tnew;\nreturn msg;","outputs":1,"noerr":0,"x":785.4400787353516,"y":444.4799346923828,"wires":[["10c4ad8f.d5fe72","91d5945d.598958"]]},{"id":"31fcbca5.6ad634","type":"function","z":"9e0c1f4c.20f85","name":"DPset message","func":"DPset=msg.payload;\nmsg.payload={\"DPset\":DPset};\nmsg.topic=\"DPset\";\nreturn msg;","outputs":1,"noerr":0,"x":384.9599838256836,"y":431.47996520996094,"wires":[["c1432acf.ab52e8"]]},{"id":"10c4ad8f.d5fe72","type":"template","z":"9e0c1f4c.20f85","name":"Send RF code","field":"payload","fieldType":"msg","format":"handlebars","syntax":"mustache","template":"/var/www/rfoutlet/codesend {{payload.Code}}","x":1121.760009765625,"y":504.47996520996094,"wires":[["b5fc28c1.acd9d8"]]},{"id":"91d5945d.598958","type":"function","z":"9e0c1f4c.20f85","name":"Strip Fan","func":"Fan=msg.payload.Fan;\nmsg.topic=\"Fan\";\nmsg.payload=Fan\*2;\nreturn msg;","outputs":1,"noerr":0,"x":975.6400299072266,"y":553.4799652099609,"wires":[["cd773670.5243f8","43205ef3.341c8"]]},{"id":"43205ef3.341c8","type":"ui\_chart","z":"9e0c1f4c.20f85","name":"","group":"ed44a21d.66196","order":0,"width":"6","height":"8","label":"Dew point","chartType":"line","legend":"true","xformat":"%H:%M:%S","interpolate":"linear","nodata":"","ymin":"-10","ymax":"25","removeOlder":"24","removeOlderUnit":"3600","x":1403.1099853515625,"y":183.36000061035156,"wires":[[],[]]},{"id":"547a5309.6d686c","type":"ui\_group","z":"","name":"Fan","tab":"39ef7ea6.a4d962","order":2,"disp":true,"width":"6"},{"id":"ed44a21d.66196","type":"ui\_group","z":"","name":"Default","tab":"39ef7ea6.a4d962","order":1,"disp":false,"width":"6"},{"id":"5bafe634.2d5e08","type":"ui\_group","z":"","name":"Heating","tab":"39ef7ea6.a4d962","disp":true,"width":"6"},{"id":"39ef7ea6.a4d962","type":"ui\_tab","z":"","name":"General","icon":"dashboard","order":0}]

MQQT data

[{"id":"3306b014.e5591","type":"mqtt in","z":"41d7d8db.988758","name":"smileymiley/feeds/photocell","topic":"smileymiley/feeds/photocell","qos":"1","broker":"803d4d6c.bbbad","x":201.77999877929688,"y":119.83999633789062,"wires":[["418cb55a.2ee9dc"]]},{"id":"a7387751.375c78","type":"debug","z":"41d7d8db.988758","name":"","active":true,"console":"false","complete":"payload","x":518.7799835205078,"y":107.31997489929199,"wires":[]},{"id":"418cb55a.2ee9dc","type":"json","z":"41d7d8db.988758","name":"","x":380.7799835205078,"y":47.389991760253906,"wires":[["a7387751.375c78"]]},{"id":"b23d1704.b92138","type":"mqtt out","z":"41d7d8db.988758","name":"smileymiley/feeds/count","topic":"smileymiley/feeds/count","qos":"0","retain":"","broker":"3b85b583.b345da","x":431.7799987792969,"y":234.50997924804688,"wires":[]},{"id":"34c85b9c.9c8c44","type":"inject","z":"41d7d8db.988758","name":"","topic":"","payload":"test","payloadType":"str","repeat":"1","crontab":"","once":false,"x":129.77999877929688,"y":235.83999633789062,"wires":[["b23d1704.b92138"]]},{"id":"803d4d6c.bbbad","type":"mqtt-broker","z":"","broker":"io.adafruit.com","port":"1883","clientid":"","usetls":false,"compatmode":true,"keepalive":"60","cleansession":true,"willTopic":"","willQos":"0","willPayload":"","birthTopic":"","birthQos":"0","birthPayload":""},{"id":"3b85b583.b345da","type":"mqtt-broker","z":"","broker":"io.adafruit.com","port":"1883","clientid":"","usetls":false,"compatmode":true,"keepalive":"15","cleansession":true,"willTopic":"","willQos":"0","willPayload":"","birthTopic":"","birthQos":"0","birthPayload":""}]

NODE RED – Yogurt

[{"id":"41d7d8db.988758","type":"tab","label":"Flow 1"},{"id":"6600796.37f2488","type":"mqtt in","z":"41d7d8db.988758","name":"/feeds/photocell","topic":"/feeds/photocell","qos":"0","broker":"b5c8c40b.f45398","x":126.99996948242188,"y":239.9999876022339,"wires":[["20a1afbf.f167f"]]},{"id":"80641c7.4c7bae","type":"function","z":"41d7d8db.988758","name":"Cooker logic","func":"// initialise the counter to 0 if it doesn't exist already\n//var count = context.get('count')||0;\nvar start\_time = context.get('start\_time')||0;\nvar old\_time = context.get('old\_time')||0;\nvar old\_temp = context.get('old\_temp')||0;\nvar startup = context.get('old\_startup')||0;\n\n//var old\_DPset = context.get('old\_DPset')||20;\n\nvar test=0; // 0 or set to 1 for quick functional test\nvar Temp = msg.payload.Temp; \nvar time = msg.payload.time; \nvar reset = msg.payload.reset;\nvar State=0;\n\nif(time>1){\n old\_time=time;\n} else {\n time=old\_time;\n}\n\nif(reset>0) {\n startup=1\n}\n\nif (test>0) {\nvar Tset1 = 60;\nvar Time1 = 90000; \nvar Tset2 = 55;\nvar Time2 = Time1+90000; \nvar Tset3 = 50;\nvar Time3 = Time2+90000; \nvar Tset4 = 0; \n} else {\nvar Tset1 = 85;\nvar Time1 = 600000; // 10 minutes @ 85\nvar Tset2 = 43;\nvar Time2 = Time1+600000; // 10 minutes @ 43\nvar Tset3 = 37;\nvar Time3 = Time2+28800000; // 8 hours @ 37\nvar Tset4 = 0; /// then switch off\n}\n\n\n\n//if (old\_time>time) {\n//time=old\_time;\n//}\n\nif (Temp>0) {\n} else { \nTemp=old\_temp\n}\n\nif(startup>0) {\nstart\_time=time;\n}\n\nrtime=time-start\_time\n\nif (rtime<Time1) {\n Tset=Tset1;\n} else if (rtime<Time2) {\n Tset=Tset2;\n} else if (rtime<Time3) {\n Tset=Tset3;\n} else {\n Tset=Tset4;\n}\n\nvar Code = 5330380;\n\n\nif (Temp>Tset1) {\nif (startup>0) {\n start\_time=time;\n startup=0;\n} \n} \n\n\nif (Temp<Tset) {\nCode=5330371;\nState=10;\n}\n\ncontext.set('old\_startup',startup);\ncontext.set('start\_time',start\_time);\ncontext.set('old\_temp',Temp);\ncontext.set('old\_time',old\_time);\n//context.set('old\_DPI',DPI);\n//context.set('old\_DPset',DPset);\nmsg.payload={\"old\_time\":time,\"startup\":startup,\"Temp\":Temp,\"Tset\":Tset,\"rtime\":rtime,\"State\":State,\"Code\":Code};\nmsg.topic=\"cooker\";\n//return msg,Temp,RH,msg.payload.Temp;\n//msg.payload.DP=Tnew;\nreturn msg;","outputs":1,"noerr":0,"x":571.9998970031738,"y":264.9999237060547,"wires":[["a95259f2.8d35f8","da03e7f1.2f4d78","fa440646.c16228","8ff65221.a9784","c0076e24.bce99"]]},{"id":"20a1afbf.f167f","type":"function","z":"41d7d8db.988758","name":"Temp message","func":"Input=msg.payload;\nmsg.payload={\"Temp\":Input};\nmsg.topic=\"Temp\";\nreturn msg;","outputs":1,"noerr":0,"x":372.9999237060547,"y":277.999924659729,"wires":[["80641c7.4c7bae"]]},{"id":"50c68a72.aa8384","type":"exec","z":"41d7d8db.988758","command":" ","addpay":true,"append":"-u","useSpawn":"","timer":"10","name":"command","x":976.9999771118164,"y":342.999963760376,"wires":[[],[],[]]},{"id":"a95259f2.8d35f8","type":"template","z":"41d7d8db.988758","name":"Send RF code","field":"payload","fieldType":"msg","format":"handlebars","syntax":"mustache","template":"/var/www/rfoutlet/codesend {{payload.Code}}","x":796.5745162963867,"y":339.69424629211426,"wires":[["50c68a72.aa8384"]]},{"id":"d30283d9.8b764","type":"inject","z":"41d7d8db.988758","name":"","topic":"time","payload":"","payloadType":"date","repeat":"5","crontab":"","once":true,"x":327.7799758911133,"y":411.8399820327759,"wires":[["7c57c6a1.bc7118"]]},{"id":"7c57c6a1.bc7118","type":"function","z":"41d7d8db.988758","name":"Temp message","func":"Input=msg.payload;\nmsg.payload={\"time\":Input};\nmsg.topic=\"time\";\nreturn 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msg;","outputs":1,"noerr":0,"x":553.9200134277344,"y":426.2400417327881,"wires":[["80641c7.4c7bae"]]},{"id":"351fa7cf.4e80a8","type":"ui\_chart","z":"41d7d8db.988758","name":"","group":"196a427.668d4be","order":0,"width":"6","height":"4","label":"Yogurt","chartType":"line","legend":"true","xformat":"%H:%M:%S","interpolate":"linear","nodata":"","ymin":"0","ymax":"100","removeOlder":"10","removeOlderUnit":"60","x":940.5199012756348,"y":170.2400016784668,"wires":[[],[]]},{"id":"da03e7f1.2f4d78","type":"function","z":"41d7d8db.988758","name":"Strip Temp","func":"Temp=msg.payload.Temp;\nmsg.topic=\"Temp\";\nmsg.payload=Temp;\nreturn msg;","outputs":1,"noerr":0,"x":757.52001953125,"y":108.24000549316406,"wires":[["351fa7cf.4e80a8","53f7b8a8.566c18"]]},{"id":"fa440646.c16228","type":"function","z":"41d7d8db.988758","name":"Strip Tset","func":"Tset=msg.payload.Tset;\nmsg.topic=\"Tset\";\nmsg.payload=Tset;\nreturn msg;","outputs":1,"noerr":0,"x":756.173210144043,"y":157.98999214172363,"wires":[["351fa7cf.4e80a8","739cb658.9c8598"]]},{"id":"8ff65221.a9784","type":"function","z":"41d7d8db.988758","name":"Strip State","func":"State=msg.payload.State;\nmsg.topic=\"State\";\nmsg.payload=State;\nreturn msg;","outputs":1,"noerr":0,"x":768.9200439453125,"y":206,"wires":[["351fa7cf.4e80a8"]]},{"id":"c0076e24.bce99","type":"debug","z":"41d7d8db.988758","name":"","active":true,"console":"false","complete":"false","x":1010.9799957275391,"y":259.9199495315552,"wires":[]},{"id":"53f7b8a8.566c18","type":"ui\_text","z":"41d7d8db.988758","group":"196a427.668d4be","order":0,"width":0,"height":0,"name":"","label":"Temp","format":"{{msg.payload|number: 1}}","layout":"row-spread","x":939.7798805236816,"y":47.1999626159668,"wires":[]},{"id":"739cb658.9c8598","type":"ui\_text","z":"41d7d8db.988758","group":"196a427.668d4be","order":0,"width":0,"height":0,"name":"","label":"Set\_temp","format":"{{msg.payload|number: 1}}","layout":"row-spread","x":940,"y":98,"wires":[]},{"id":"b5c8c40b.f45398","type":"mqtt-broker","z":"","broker":"Localhost","port":"1883","clientid":"","usetls":false,"compatmode":true,"keepalive":"15","cleansession":true,"willTopic":"","willQos":"0","willPayload":"","birthTopic":"","birthQos":"0","birthPayload":""},{"id":"196a427.668d4be","type":"ui\_group","z":"","name":"Yogurt","tab":"39ef7ea6.a4d962","disp":true,"width":"6"},{"id":"39ef7ea6.a4d962","type":"ui\_tab","z":"","name":"General","icon":"dashboard","order":0}]

YOGURT – 1Sep Working version

[{"id":"6600796.37f2488","type":"mqtt in","z":"41d7d8db.988758","name":"/feeds/photocell","topic":"/feeds/photocell","qos":"0","broker":"b5c8c40b.f45398","x":126.99996948242188,"y":239.9999876022339,"wires":[["20a1afbf.f167f"]]},{"id":"80641c7.4c7bae","type":"function","z":"41d7d8db.988758","name":"Cooker logic","func":"// initialise the counter to 0 if it doesn't exist already\n//var count = context.get('count')||0;\nvar start\_time = context.get('start\_time')||0;\nvar old\_time = context.get('old\_time')||0;\nvar old\_temp = context.get('old\_temp')||0;\nvar colour = context.get('old\_colour')||\"blue\";\nvar flash = context.get('old\_flash')||\"true\";\nvar count= context.get('count')||0;\nvar temp\_ok = context.get('temp\_ok')||0;\nvar mode = context.get('old\_mode')||0;\nvar coff=50;\nvar con=16;\n\n//var old\_DPset = context.get('old\_DPset')||20;\n\nvar test=0; // 0 or set to 1 for quick functional test\nvar Temp = msg.payload.Temp; \nvar time = msg.payload.time; \nvar reset = msg.payload.reset;\nvar switch\_state = msg.payload.switch\_state;\n\nvar State=0;\n\nif(time>1){\n old\_time=time;\n} else {\n time=old\_time;\n}\n\nif(reset>0) {\n startup=1;\n}\n\nif (test>0) {\nvar Tset1 = 45;\nvar Time1 = 20000; \nvar Tset2 = 35;\nvar Time2 = 30000; \nvar Tset3 = 30;\nvar Time3 = 100000; \nvar Tset4 = 0; \n} else {\nvar Tset1 = 85;\nvar Time1 = 600000; // 10 minutes @ 85\nvar Tset2 = 43;\nvar Time2 = Time1+600000; // 10 minutes @ 43\nvar Tset3 = 37;\nvar Time3 = Time2+28800000; // 8 hours @ 37\nvar Tset4 = 0; /// then switch off\n}\n\nif (Temp>0) {\n} else { \nTemp=old\_temp;\n}\n\nrtime=time-start\_time;\n\nif (mode<1) {\n Tset=0;\n colour=\"green\";\n flash=\"true\"\nif(switch\_state<1) {\n switch\_state=1;\n mode=1; // Sterilisation mode\n temp\_ok=0;\n flash=\"false\";\n colour=\"red\";\n Tset=Tset1;\n}\n}\nif (mode==1) {\n if (temp\_ok<1) {\n if (Temp>Tset1) {\n temp\_ok=1;\n start\_time=time;\n rtime=time-start\_time;\n }\n }\n}\nif(mode==1) {\nif (temp\_ok>0){\nif (rtime>Time2) {\n mode=2; // Cool down mode\n colour=\"blue\";\n flash=\"false\";\n Tset=Tset2;\n start\_time=time;\n} \n}\n}\nif (mode==2) {\n Tset=Tset3;\n colour=\"blue\";\nif (Temp<Tset2) {\n flash=\"true\";\n start\_time=time;\nif (switch\_state<1) {\n switch\_state=1;\n mode=3; // Incubate mode\n colour=\"green\";\n flash=\"false\";\n Tset=Tset3;\n start\_time=time;\n} \n}\n}\nif (mode==3) {\n if (rtime>Time3) {\n flash=\"true\";\n Tset=0;\n colour=\"green\";\nif (switch\_state<1) {\n switch\_state=1;\n mode=0; // return to off state\n\n} \n}\n}\n \n\nvar Code = 5330380;\n\nif (mode==1) {\ncon=coff+1;\n}\n\n \ncount=count+1;\nif (count>coff) {\n count=1;\n}\n\nif (count<con) {\nif (Temp<Tset) {\nCode=5330371;\nState=10;\n}\n}\n\ncontext.set('temp\_ok',temp\_ok);\ncontext.set('start\_time',start\_time);\ncontext.set('old\_temp',Temp);\ncontext.set('old\_time',old\_time);\ncontext.set('count',count);\ncontext.set('old\_colour',colour);\ncontext.set('old\_flash',flash);\ncontext.set('old\_mode',mode);\n\n\n//context.set('old\_DPI',DPI);\n//context.set('old\_DPset',DPset);\nmsg.payload={\"mode\":mode,\"flash\":flash,\"switch\_state\":switch\_state,\"colour\":colour,\"count\":count,\"old\_time\":time,\"Temp\":Temp,\"Tset\":Tset,\"rtime\":rtime,\"State\":State,\"Code\":Code};\nmsg.topic=\"cooker\";\n//return msg,Temp,RH,msg.payload.Temp;\n//msg.payload.DP=Tnew;\nreturn msg;","outputs":1,"noerr":0,"x":579.9999313354492,"y":246.99991607666016,"wires":[["a95259f2.8d35f8","da03e7f1.2f4d78","fa440646.c16228","8ff65221.a9784","369c3ff2.c307b","ce16f0f3.dd3d2"]]},{"id":"20a1afbf.f167f","type":"function","z":"41d7d8db.988758","name":"Temp message","func":"Input=msg.payload;\nmsg.payload={\"Temp\":Input};\nmsg.topic=\"Temp\";\nreturn msg;","outputs":1,"noerr":0,"x":345.9999313354492,"y":270.99994945526123,"wires":[["80641c7.4c7bae"]]},{"id":"50c68a72.aa8384","type":"exec","z":"41d7d8db.988758","command":" ","addpay":true,"append":"-u","useSpawn":"","timer":"10","name":"command","x":976.9999771118164,"y":342.999963760376,"wires":[[],[],[]]},{"id":"a95259f2.8d35f8","type":"template","z":"41d7d8db.988758","name":"Send RF code","field":"payload","fieldType":"msg","format":"handlebars","syntax":"mustache","template":"/var/www/rfoutlet/codesend {{payload.Code}}","x":796.5745162963867,"y":339.69424629211426,"wires":[["50c68a72.aa8384"]]},{"id":"d30283d9.8b764","type":"inject","z":"41d7d8db.988758","name":"","topic":"time","payload":"","payloadType":"date","repeat":"5","crontab":"","once":true,"x":327.7799758911133,"y":411.8399820327759,"wires":[["7c57c6a1.bc7118"]]},{"id":"7c57c6a1.bc7118","type":"function","z":"41d7d8db.988758","name":"Temp message","func":"Input=msg.payload;\nmsg.payload={\"time\":Input};\nmsg.topic=\"time\";\nreturn msg;","outputs":1,"noerr":0,"x":553.9199829101562,"y":351,"wires":[["80641c7.4c7bae"]]},{"id":"351fa7cf.4e80a8","type":"ui\_chart","z":"41d7d8db.988758","name":"","group":"196a427.668d4be","order":0,"width":"6","height":"4","label":"Yogurt","chartType":"line","legend":"true","xformat":"%H:%M:%S","interpolate":"linear","nodata":"","ymin":"0","ymax":"100","removeOlder":"1","removeOlderUnit":"3600","x":940.5199012756348,"y":170.2400016784668,"wires":[[],[]]},{"id":"da03e7f1.2f4d78","type":"function","z":"41d7d8db.988758","name":"Strip Temp","func":"Temp=msg.payload.Temp;\nmsg.topic=\"Temp\";\nmsg.payload=Temp;\nreturn msg;","outputs":1,"noerr":0,"x":757.52001953125,"y":108.24000549316406,"wires":[["351fa7cf.4e80a8","53f7b8a8.566c18"]]},{"id":"fa440646.c16228","type":"function","z":"41d7d8db.988758","name":"Strip Tset","func":"Tset=msg.payload.Tset;\nmsg.topic=\"Tset\";\nmsg.payload=Tset;\nreturn msg;","outputs":1,"noerr":0,"x":756.173210144043,"y":157.98999214172363,"wires":[["351fa7cf.4e80a8","739cb658.9c8598"]]},{"id":"8ff65221.a9784","type":"function","z":"41d7d8db.988758","name":"Strip State","func":"State=msg.payload.State;\nmsg.topic=\"State\";\nmsg.payload=State;\nreturn msg;","outputs":1,"noerr":0,"x":768.9200439453125,"y":206,"wires":[["351fa7cf.4e80a8"]]},{"id":"53f7b8a8.566c18","type":"ui\_text","z":"41d7d8db.988758","group":"196a427.668d4be","order":0,"width":0,"height":0,"name":"","label":"Temp","format":"{{msg.payload|number: 1}}","layout":"row-spread","x":939.7798805236816,"y":47.1999626159668,"wires":[]},{"id":"739cb658.9c8598","type":"ui\_text","z":"41d7d8db.988758","group":"196a427.668d4be","order":0,"width":0,"height":0,"name":"","label":"Set\_temp","format":"{{msg.payload|number: 1}}","layout":"row-spread","x":940,"y":98,"wires":[]},{"id":"f2dcf2ef.8f3b7","type":"exec","z":"41d7d8db.988758","command":" mosquitto","addpay":true,"append":"-u","useSpawn":"","timer":"10","name":"command","x":386.6666450500488,"y":95.33331489562988,"wires":[[],[],[]]},{"id":"3450c976.9344f6","type":"inject","z":"41d7d8db.988758","name":"start mosquitto","topic":"","payload":"","payloadType":"str","repeat":"","crontab":"","once":true,"x":176.29999796549478,"y":111.39999389648436,"wires":[["f2dcf2ef.8f3b7"]]},{"id":"e7ba990c.0df3f8","type":"mqtt out","z":"41d7d8db.988758","name":"/feeds/onoff","topic":"/feeds/onoff","qos":"1","retain":"true","broker":"b5c8c40b.f45398","x":982.7799377441406,"y":424.75990772247314,"wires":[]},{"id":"5d1b2bf2.5f2fb4","type":"mqtt out","z":"41d7d8db.988758","name":"/feeds/pin","topic":"/feeds/pin","qos":"1","retain":"true","broker":"b5c8c40b.f45398","x":1046.9997100830078,"y":266.2400074005127,"wires":[]},{"id":"544559ea.f13af8","type":"mqtt in","z":"41d7d8db.988758","name":"/feeds/switch","topic":"/feeds/switch","qos":"0","broker":"b5c8c40b.f45398","x":121,"y":189.24000549316406,"wires":[["1cd565e4.f4920a"]]},{"id":"1cd565e4.f4920a","type":"function","z":"41d7d8db.988758","name":"switch\_state message","func":"Input=msg.payload;\nmsg.payload={\"switch\_state\":Input};\nmsg.topic=\"switch\_state\";\nreturn msg;","outputs":1,"noerr":0,"x":373.08001708984375,"y":193.23998832702637,"wires":[["80641c7.4c7bae","e3a91278.bc559"]]},{"id":"369c3ff2.c307b","type":"function","z":"41d7d8db.988758","name":"Strip Colour","func":"colour=msg.payload.colour;\nmsg.topic=\"colour\";\nmsg.payload=colour;\nreturn msg;","outputs":1,"noerr":0,"x":818.7999572753906,"y":280.2400074005127,"wires":[["5d1b2bf2.5f2fb4"]]},{"id":"ce16f0f3.dd3d2","type":"function","z":"41d7d8db.988758","name":"Strip flash","func":"flash=msg.payload.flash;\nmsg.topic=\"flash\";\nmsg.payload=flash;\nreturn msg;","outputs":1,"noerr":0,"x":785.1600341796875,"y":421,"wires":[["e7ba990c.0df3f8"]]},{"id":"e3a91278.bc559","type":"debug","z":"41d7d8db.988758","name":"","active":true,"console":"false","complete":"false","x":565.779899597168,"y":126.78998374938965,"wires":[]},{"id":"b5c8c40b.f45398","type":"mqtt-broker","z":"","broker":"Localhost","port":"1883","clientid":"","usetls":false,"compatmode":true,"keepalive":"15","cleansession":true,"willTopic":"","willQos":"0","willPayload":"","birthTopic":"","birthQos":"0","birthPayload":""},{"id":"196a427.668d4be","type":"ui\_group","z":"","name":"Yogurt","tab":"39ef7ea6.a4d962","disp":true,"width":"6"},{"id":"39ef7ea6.a4d962","type":"ui\_tab","z":"","name":"General","icon":"dashboard","order":0}]