

Blynk local server for DIY CO2 meter example

Free open-source IoT platform. With local server available.

My code examples	https://github.com/liutyi/esp32-oled-senseair
Lib	https://github.com/blynkkk/blynk-library
Server	https://github.com/blynkkk/blynk-server
Iphone app	https://apps.apple.com/us/app/blynk-iot-for-arduino-esp32/id808760481
Example generator	https://examples.blynk.cc

Server setup

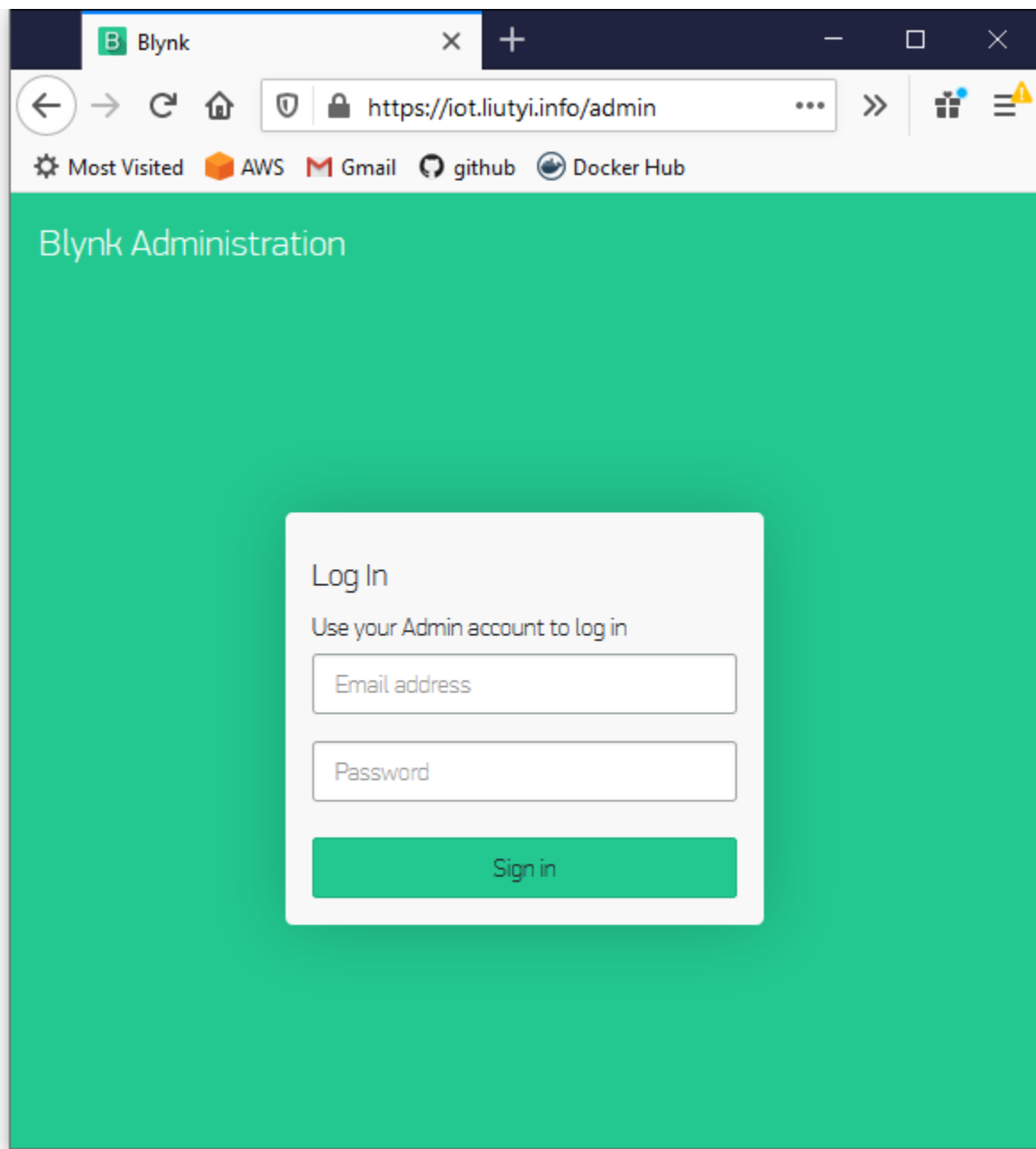
Setup server using docker

```
# test run
docker run -p 8080:8080 -p 9443:9443 mpherg/blynk-server
# final setup with customized image
docker run -d -p 8080:8080 -p 9443:9443 -p 8440:8440 -v /docker/blynk-server/config:/config/ -v /docker/blynk-server/data:/data --restart=always kyivtank/blynk-server:latest
```

Firewall and proxy

1. do not use http/https reverse proxy. use tcp forwarding by iptables or load balancers if needed
2. be sure firewalls open for 8080 and 9443 ports

Local server running example



Mobile app with the connected devices

01:18 ↗



01:19 ↗



Log In



co2



Email

Password

Forgot password?

Select server

OK



Blynk



Custom

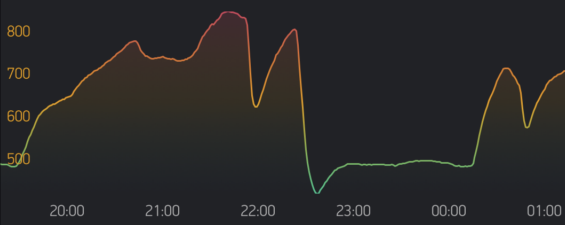
iot.liutyi.info

9443

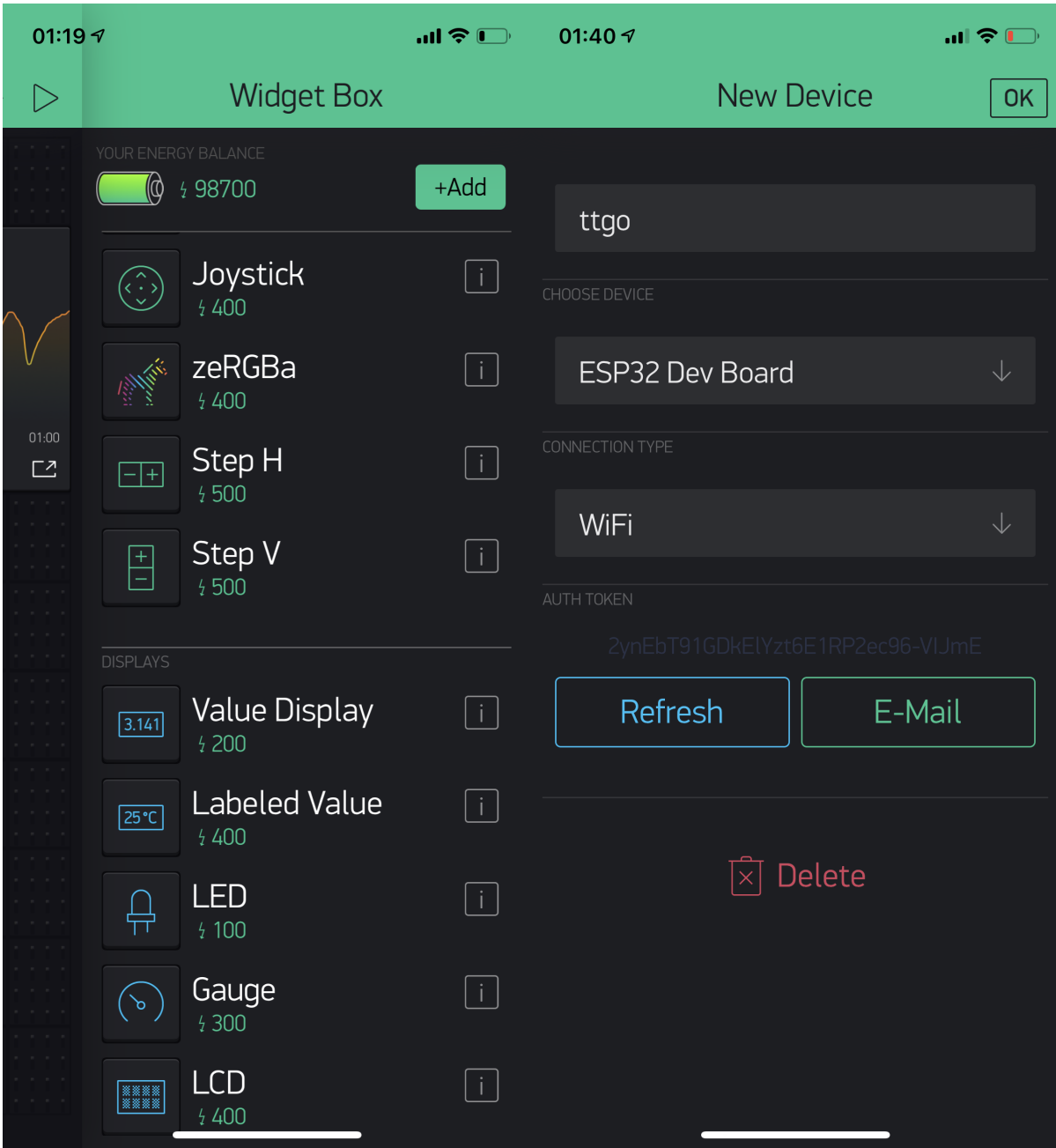
730

V1

CO2



Live 1h 6h 1d 1w 1M 3M ...



01:53



co2



wemos

Online since 01:40 AM May 16, 2020



ttgo

Online since 01:44 AM May 16, 2020



693

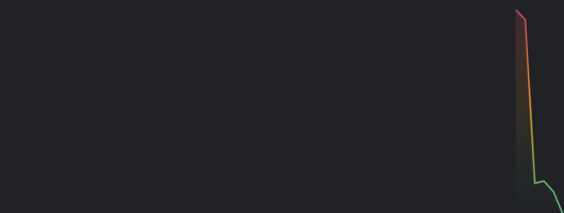
CO2



01:00 01:15 01:30 01:45
Live 1h 6h 1d 1w 1M 3M ...

697

CO2



Live 1h 6h 1d 1w 1M 3M ...