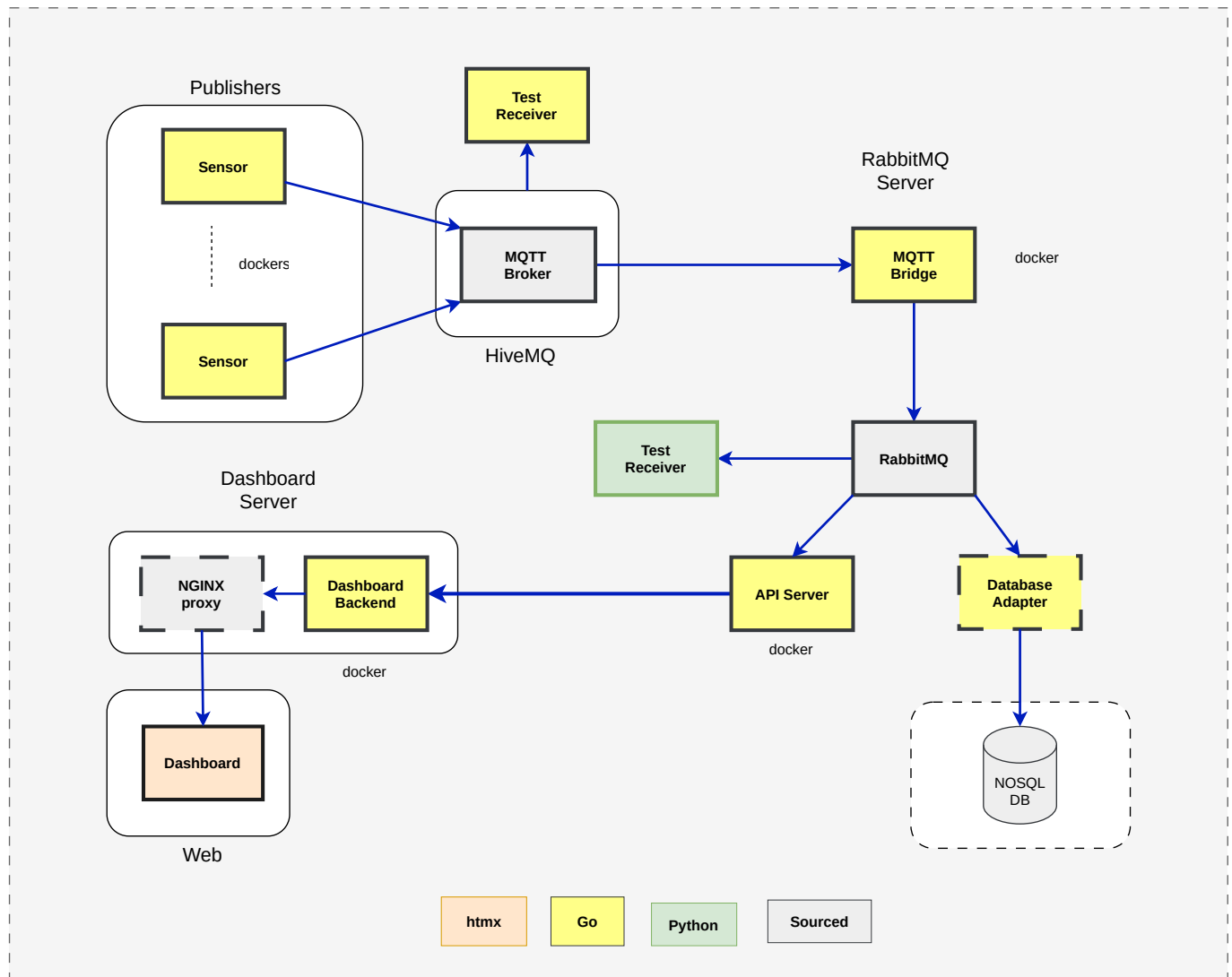# Streaming Sensor Example

Items with dotted lines are not implemented yet.

Sensors (simulated)

- go
- github.com/eclipse/paho.mqtt.golang
- generates configurable wave forms
- docker images
    - sin
    - square
    - triangle

MQTT Broker

- HiveMQ
    - free tier
    - https://www.hivemq.com/

MQTT - RabbitMQ Bridge

- go
- github.com/eclipse/paho.mqtt.golang
- github.com/rabbitmq/amqp091-go

RabbitMQ Server

- rabbitMQ standard docker image
  - https://hub.docker.com/_/rabbitmq

API Server

- go
- net/http server
- github.com/rabbitmq/amqp091-go

Dashboard Backend

- go
  - net/http server
  - html/template

Dashboard Frontend

- hxml SPA

Test

- MQTT Receiver Test
  - go
  - paho client
    - github.com/eclipse/paho.mqtt.golang
- RabbitMQ Receiver Test
  - python
  - pika client