

# • 도커를 이용한 Grafana 설치

docker run -itd -p 3001:3000 --name=grafana\_3001 grafana/grafana

Username: admin Password: admin

### [ System 1 ] MQTT통신

가정용 스마트팜(IoT 보드)



제어보드



MMB 보드

#### Node-Red

http://bombzoo-home.iptime.org:1880/ui



MySQL

- 4			L				
į	ID	temp	humidity	cdc	water	co2	date
+			+	+		+	++
	10174	28	53	84	29	0	2024-05-26 17:40:38
	10175	28	53	84	29	0	2024-05-26 17:40:48
	10176	28	53	84	29	0	2024-05-26 17:40:58
	10177	28	53	84	29	0	2024-05-26 17:41:08
	10178	28	53	84	29	0	2024-05-26 17:41:20
	10179	28	53	85	29	0	2024-05-26 17:41:28
	10180	28	53	85	29	0	2024-05-26 17:41:38
	10181	28	53	85	29	0	2024-05-26 17:41:48
	10182	28	53	85	29	0	2024-05-26 17:41:58
	10183	28	53	86	29	0	2024-05-26 17:42:08
+		+	+	+	+ <b></b> -	+	+

#### Grafana



https://smartstore.naver.com/blueinno/products/5536896092?NaPm=ct%3Dm3qs21wj%7Cci%3Dcheckout%7Ctr%3Dppc%7Ctrx%3Dnull%7Chk%3D0b4070863fa33b54f69a7d75c42ecf472ed90671

### [ System 1 ] MQTT통신

## 데이터 입력/출력



# 라즈베리파이





MMB 보드

### **Grafana Dashboard**

http://bombzoohome.iptime.org:3000/d/ee2t1yre1nh8gf/smartfarm?from= now-6h&to=now&timezone=browser

# [ System 2 ] HTTP 통신



# Tuya 수질 Sensor



## 헤이홈



## Tuya 수질 Sensor DB

id   t	.emp_current	ph_current	tds_current	ec_current	salinity_current	pro_current	orp_current	cf_current	rh_current	created_at
1   1730723914710	230	798	169	338	197	998	131	338		2024-11-04 12:38:34
2   1730723944906	230	798	169	338	197	998	132	338	0	2024-11-04 12:39:04
3   1730723975144	230	798	169	338	197	998	132	338		2024-11-04 12:39:35
4   1730724005356	230	798	169	338	197	998	132	] 338		2024-11-04 12:40:05
5   1730724035553	230	798	170	340	198	998	132	I 340		2024-11-04 12:40:35

### [ System 2 ] Tuya IoT Platform

#### 데이터 입력/출력 라즈베리파이 WIFI Connection and Data Transter 실시간 모니터링 Download Tuva Smart APP and enter your account .Realize real time 데이터저장 **Tuya API** tuya 데이터저장 데이터저장 Tuya Smart 제어 컨트롤러 tuyດີ **MySQL IoT Platform** HTTP Grafana HOW TO?

8-in-1 Water Quality Tester



### **Grafana Dashboard**

http://bombzoohome.iptime.org:3000/d/de2xifwo534sga/ph-8in1?from=now-6h&to=now&timezone=browser

## [ System 2 ] 헤이홈 IoT Platform

#### 데이터 입력/출력 라즈베리파이 WIFI Connection and Data Transter 데이터저장 실시간 모니터링 **Tuya API** tuya 데이터저장 데이터저장 Tuya Smart 제어 컨트롤러 tuyດື **MySQL IoT Platform** HTTP Grafana **HOW TO?**

8-in-1 Water Quality Tester



