**Terminal**

Reference: https://pimylifeup.com/raspberry-pi-grafana/

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| --- |
| $ wget https://dl.grafana.com/oss/release/grafana\_6.6.1\_armhf.deb  $ sudo dpkg -i grafana\_6.6.1\_armhf.deb  Start Grafana  $ sudo systemctl start grafana-server  Grafana start at startup  $ sudo systemctl enable grafana-server  Open browser http://<ipaddress>:3000  Username: admin  Password: admin |

Reference: http://shahrulnizam.com/raspberry-pi-lesson-lamp-web-server/

|  |
| --- |
| $ sudo apt-get install mariadb-server php-mysql  $ sudo mysql\_secure\_installation  $ sudo mysql -u root -p  $ create database datalog;  $ create user 'hasrul'@'localhost' identified by '123456';  $ grant all privileges on datalog.\* to 'hasrul'@'localhost';  $ flush privileges;  $ quit |

Add Data Source

URL: http://127.0.0.1:3306

Database: datalog

NodeRED

msg.topic = "CREATE TABLE dht(timestamp varchar(30),temperature varchar(30),humidity varchar(30));";

return msg;

msg.topic = "INSERT INTO dht (timestamp,temperature,humidity) VALUES ('";

msg.topic=msg.topic+msg.payload+"','1','2');";

return msg;

Grafana

SELECT

timestamp as 'Date',

temperature as 'Temperature',

humidity as 'Humidity'

FROM dht

