

How-To Guide on Installing Grafana

```
apt-get update
apt-get install docker.io
docker pull grafana/grafana:latest

# Show the docker images
docker images

$ docker run -d --name=grafana -p 3000:3000 grafana/grafana

$ docker run -d -p 3000:3000 -v /var/lib/grafana:/var/lib/grafana
-e "GF_SECURITY_ADMIN_PASSWORD=admin" grafana/grafana
```

A Grafana server container should now be up and running on your host. To confirm that, run the following command:

```
$ docker container ls | grep grafana
```

You can also make sure that it is correctly listening on port 3000.

```
$ netstat -tulpn | grep 3000
```

```
$ sudo apt install openssh-server -y

$ sudo apt install net-tools -y

# check IP address to ssh into:
ip a

$ wget -q -O - https://packages.grafana.com/gpg.key |
sudo apt-key add -

$ sudo add-apt-repository
"deb https://packages.grafana.com/oss/deb stable main"

$ sudo apt update && sudo apt upgrade -y

$ sudo apt install grafana -y
```

```
$ sudo systemctl start grafana-server
$ sudo systemctl status grafana-server
$ sudo systemctl enable grafana-server
$ sudo apt install mosquitto -y
# Omit the `< >` for the username below, and replace
# with your username
$ mosquitto_passwd -c passwordfile <username>
# Enter "1234" as the password
```

```
$ sudo apt install influxdb
$ sudo apt install influxdb-client
$ sudo snap install node-red
$ influx
```

```
>
# Database Creation
> CREATE DATABASE <database name>
# Show list of databases you created
> SHOW DATABASE
> exit
```

<http://localhost:8086> - Node-red Pallets Node Red Dashboard Influxdb

<http://localhost:3000> - Grafana

<http://localhost:1880> - Node-red

<http://localhost:1880/ui> - Node-red dashboard