## **Installing Grafana**

- 1. Open Terminal
- 2. Install Grafana using the Following Code

```
sudo apt-get install -y apt-transport-https
sudo apt-get install -y software-properties-common wget
wget -q -0 - https://packages.grafana.com/gpg.key | sudo apt-key add -

# Alternatively you can add the beta repository, see in the table
above
sudo add-apt-repository "deb https://packages.grafana.com/oss/deb
stable main"

sudo apt-get update
sudo apt-get install grafana
```

3. Start the Grafana service

```
Start the server with systemd

To start the service and verify that the service has started:

sudo systemctl daemon-reload
sudo systemctl start grafana-server
sudo systemctl status grafana-server
```

- 4. Getting Started with Grafana
  - Go to <a href="http://localhost:3000">http://localhost:3000</a> user and password are admin
- 5. Follow Guide

https://grafana.com/docs/grafana/latest/guides/getting\_started/

## Installing InfluxDB

- 1. Open Terminal
- 2. Install InfluxDB
  - a. If not Ubuntu 15.04+ or Debian 8+

```
wget -qO- https://repos.influxdata.com/influxdb.key | sudo apt-key add -
source /etc/lsb-release
echo "deb https://repos.influxdata.com/${DISTRIB_ID,,} ${DISTRIB_CODENAME} stable" | sudo tee /etc/apt/sources.list.d/influxdb.list
```

```
sudo apt-get update && sudo apt-get install influxdb
sudo service influxdb start
```

b. If Ubuntu 15.04+ or Debian 8+

```
sudo apt-get update && sudo apt-get install influxdb
sudo systemctl unmask influxdb.service
sudo systemctl start influxdb
```

3. Config InfluxDB

```
influxd -config /etc/influxdb/influxdb.conf
```

4. Install InfluxDB-Client (optional)

This allows you to use command influx to access InfluxDB Shell and look at the databases and measurements in Terminal.

```
sudo apt-get influxdb-client
```

## **Python Scripts**

1. PIP Install influxdb

Command: python3 -m pip install influxdb

- 2. Write Scripts
- 3. Examples

https://influxdb-python.readthedocs.io/en/latest/include-readme.html https://influxdb-python.readthedocs.io/en/latest/examples.html

## Grafana and InfluxDB

- 1. Open Grafana using <a href="http://localhost:3000">http://localhost:3000</a> and login
- 2. Add a data source (InfluxDB)
  - a. Database is the database you want to use
  - b. User and password is admin
- 3. Add Dashboard
  - a. Add 1s refresh in the Dashboard settings
- 4. Create Panel
  - a. Change time range to last 10 min
  - b. Change refresh rate as 1s
- 5. Set Query

https://grafana.com/docs/grafana/latest/features/datasources/influxdb/