**How to install Grafana, InfluxDB and Telegraf on Ubuntu 20.04 LTS**

**### Installing required packages**

apt install curl gnupg gnupg1 gnupg2 net-tools software-properties-common

sudo curl -sL 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 update

sudo apt install influxdb -y

sudo systemctl start influxdb

sudo systemctl enable influxdb

netstat -plntu | grep '8088\|8086'

**Create the Database and its USER**

### Create User and Database to store the Data from Telegraf Agent.

influx

create database telegraf

create user telegraf with password 'myP@ssw0rd'

show databases

show users

**Telegraf: Installation and the configurations**

### Install Telegraf Agent

sudo apt install telegraf -y

sudo systemctl start telegraf

sudo systemctl enable telegraf

sudo systemctl status telegraf

### Configure Telegraf

In this step, we will configure the Telegraf to use basic input plugins for

collecting system metric of the server and using the influxdb as the output plugin.

cd /etc/telegraf/telegraf.d/

touch my\_config\_telegraf.conf

nano my\_config\_telegraf.conf

**Config File: my\_config\_telegraf.conf**

# Global Agent Configuration

[agent]

hostname = "Grafana"

flush\_interval = "10s"

interval = "10s"

# Input Plugins

[[inputs.cpu]]

percpu = true

totalcpu = true

collect\_cpu\_time = false

report\_active = false

[[inputs.disk]]

ignore\_fs = ["tmpfs", "devtmpfs", "devfs"]

[[inputs.io]]

[[inputs.mem]]

[[inputs.net]]

[[inputs.system]]

[[inputs.swap]]

[[inputs.netstat]]

[[inputs.processes]]

[[inputs.kernel]]

# Output Plugin InfluxDB

[[outputs.influxdb]]

database = "telegraf"

urls = [ "http://127.0.0.1:8086" ]

username = "telegraf"

password = "myP@ssw0rd"

#Telegraf provides telegraf command to manage the configuration,

#including generate the configuration itself, run the command as below.

**Generate configurations**

telegraf config -input-filter cpu:mem:disk:swap:system:net:netstat -output-filter influxdb > my\_config\_telegraf.conf

cat my\_config\_telegraf.conf

**Grafana: Instalation**

#Install Grafana

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

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

apt-get update -y

apt-get install grafana -y

systemctl daemon-reload

systemctl enable --now grafana-server

systemctl start grafana-server

systemctl status grafana-server

**Login to grafana and add the InfluxDB as Data source**

## Login to grafana

http://192.168.178.37:3000

Username: admin

Password: admin

##

add data source (influxDB)

urls = [ "http://127.0.0.1:8086" ]

database = "telegraf"

username = "telegraf"

password = "myP@ssw0rd"

Type = GET

**Import the Dashboard**

## adding the Dashboard

Now open the sample Grafana dashboard from URL

'https://grafana.com/dashboards/5955'

and click the 'Copy the ID to Clipboard' button.

Paste in Grafana to import the Telegraf - System Metrics Dashboard