

Consolidando o seu conhecimento

Chegou a hora de você pôr em prática o que foi visto na aula. Para isso, execute os passos listados abaixo.

1) Instalar o **InfluxDB**:

```
# Criando o diretório para persistir o volume e as configurações
$ mkdir -p $PWD/volumes/influxdb

$ Instalando o INFLUXDB:
$ docker run -d -v "$PWD/volumes/influxdb:/var/lib/influxdb" \
  -p 8083:8083 \
  -p 8086:8086 \
  -p 25826:25826/udp \
  --name=influxdb \
  --network=grafana-net \
  influxdb:1.0
```

2) Instalar o coletor de métricas **Telegraf**:

```
$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 telegraf
$sudo service telegraf start
```

3) Visualizando as métricas coletadas pelo Telegraf no InfluxDB:

```
# Conectando no Influx
$ docker exec -ti influxdb bash
$ influx

# Acessando as métricas
> use telegraf
> show measurements;
> exit
$ exit
```

4) Configurar o *data source* no Grafana:

- Configuration > Data Sources > Add data source > InfluxDB
 - Name: InfluxDB
 - URL: http://192.168.33.10:8086
 - Access: Browser
 - Database: telegraf

- Save & Test

5) Ler a primeira métrica em um *dashboard*:

- Create > Dashboard > Configurações
 - General > Name: Aula 2 - Como armazenar as métricas
 - Variables > Type: Query
 - Variables > Name: server
 - Variables > Type: Query
 - Variables > Data source: InfluxDB
 - Variables > Query: SHOW TAG VALUES FROM system WITH KEY=host
 - New Panel > Add Query

The screenshot shows the Grafana query editor for a new panel. The query is configured as follows:

- FROM:** default system WHERE host regex `/${server$}`
- SELECT:** field (uptime) mean () math (* -1 + 100)
- GROUP BY:** time (\$__interval) fill (null)
- FORMAT AS:** Time series
- ALIAS BY:** Naming pattern

At the bottom, the time range is set to "Relative time" for "1h" with a "Time shift" of "1h".

The screenshot shows the "Visualization" configuration panel for a "Singlestat" visualization. The settings are as follows:

- Value:**
 - Stat: Average
 - Font size: 80%
 - Prefix: (empty)
 - Postfix: (empty)
 - Unit: seconds (s)
 - Decimals: auto
- Coloring:**
 - Background: (disabled)
 - Value: (disabled)
 - Prefix: (disabled)
 - Postfix: (disabled)
 - Thresholds: 50,80
 - Colors: (green, orange, red) with an "Invert" button
- Spark lines:** Show (disabled)
- Gauge:** Show (disabled)

At the bottom, the "Value Mappings" section shows "Type" set to "value to text".