

# Grafana



# Grafana

Version 1.0



## VERSION HISTORY

<i>Version</i>	<i>Date</i>	<i>Version Author</i>	<i>Version Changes</i>
1.0	14/07/2022	Pedro Akira Danno Lima	Original Zabbix document.

## DOCUMENT SUMMARY

<i>Description:</i>	This document describes the Zabbix installation and configuration processes.
<i>Place of Publication:</i>	
<i>Version Validity::</i>	14/07/2022
<i>Based on the Version 1.0 Publishing Model</i>	

## Sumário

Configurações Gerais: .....	Error! Bookmark not defined.
Configurações do Banco de Dados: .....	Error! Bookmark not defined.
Configurações de Oracle Linux/VM:.....	Error! Bookmark not defined.
Criação da conta Oracle .....	Error! Bookmark not defined.



## Configure the Grafana web after install following README.md steps

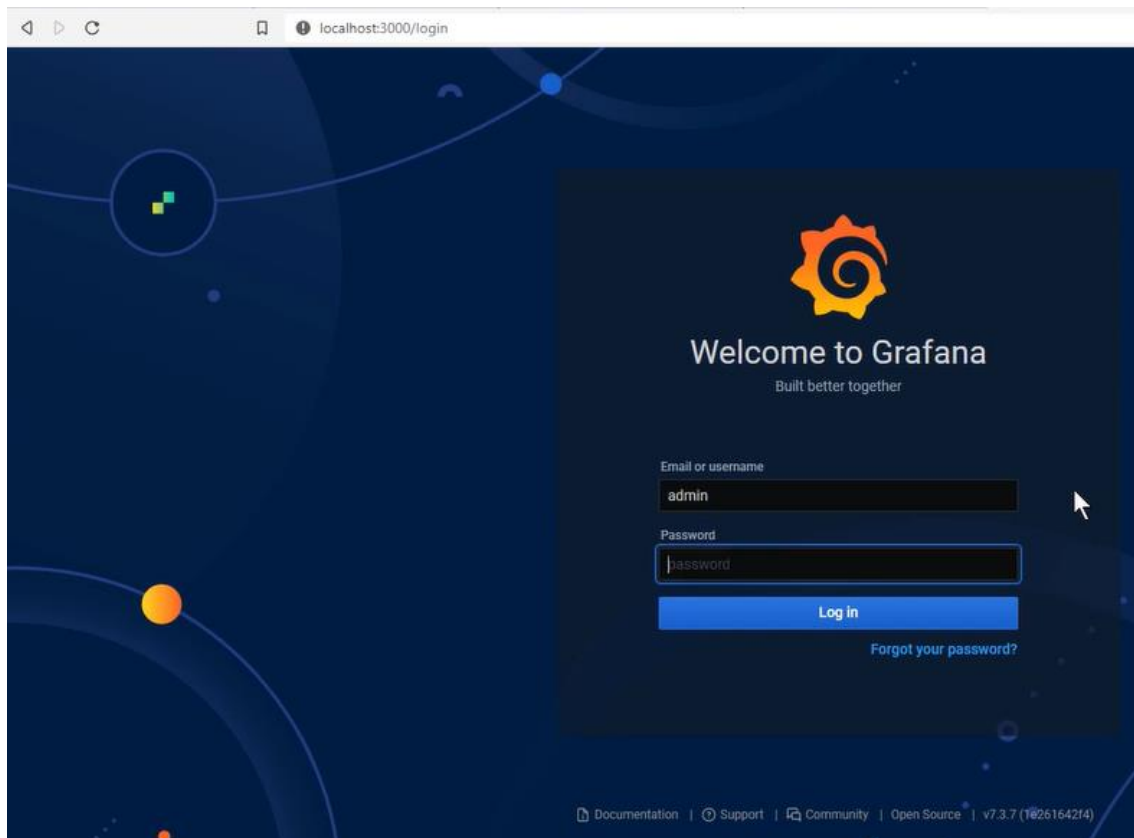
Step 1 – open browser and put:

`http://localhost:3000`

Step 2 – login

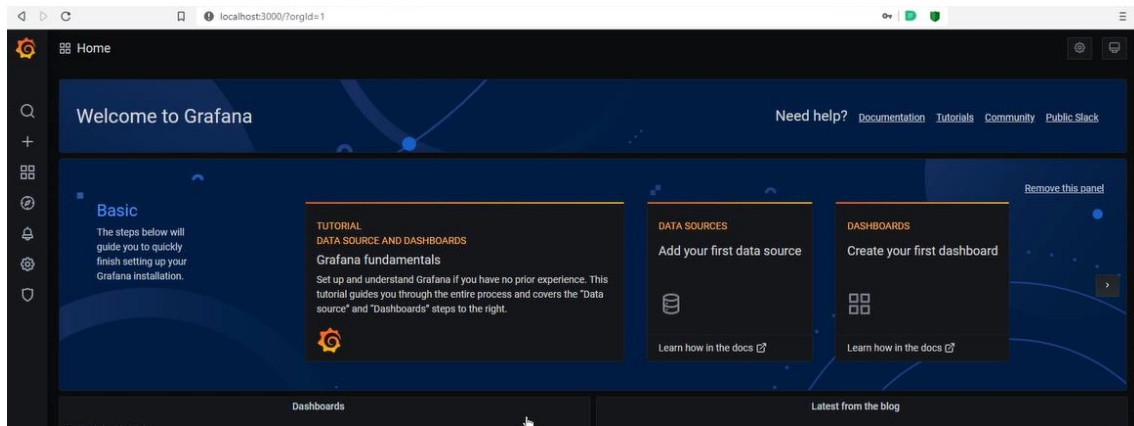
**User:** admin

**Password:** admin



# Grafana

## Step 3 – the Grafana default page

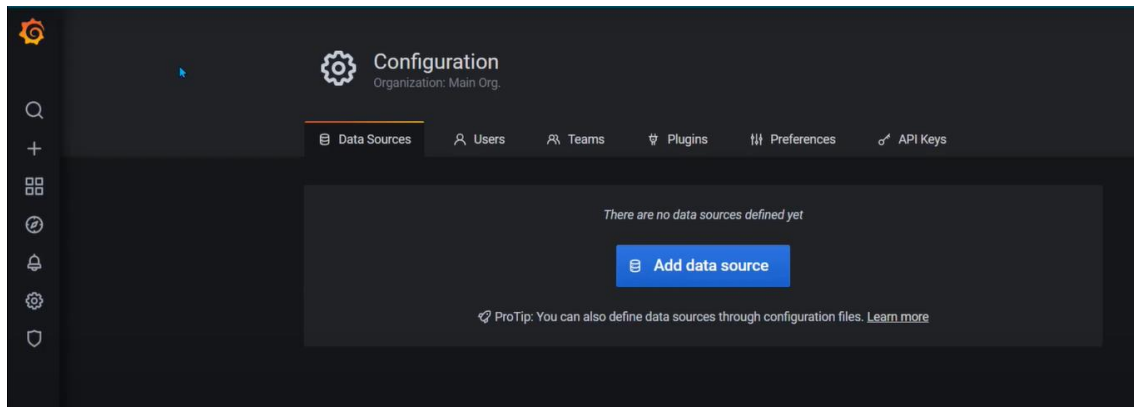


## Monitor PostgreSQL with Grafana with **plugin PostgreSQL**

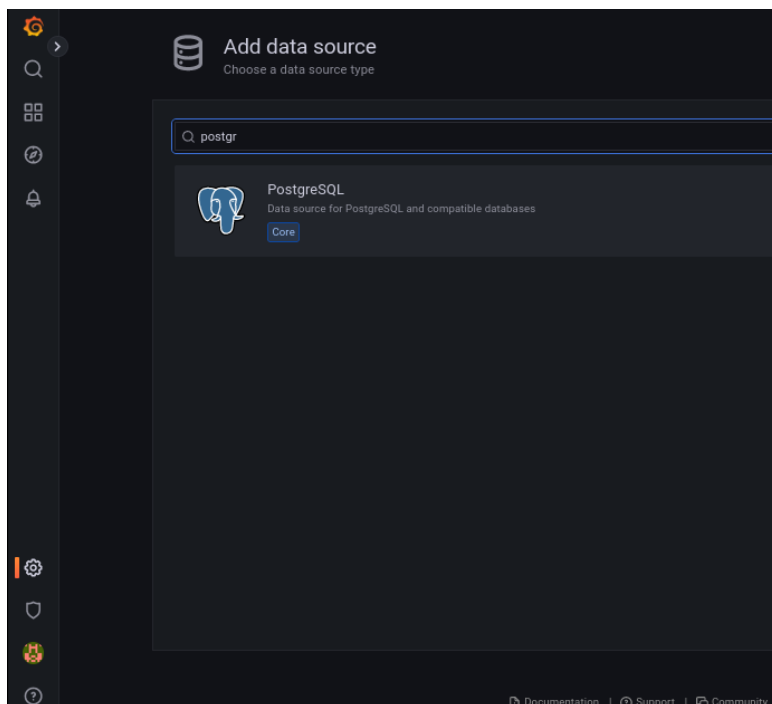
### Data source / PostgreSQL

Refe: <https://www.youtube.com/watch?v=csx6GoF1Ul4&t=163s>

Step 1 – go to configuration -> add **data source**

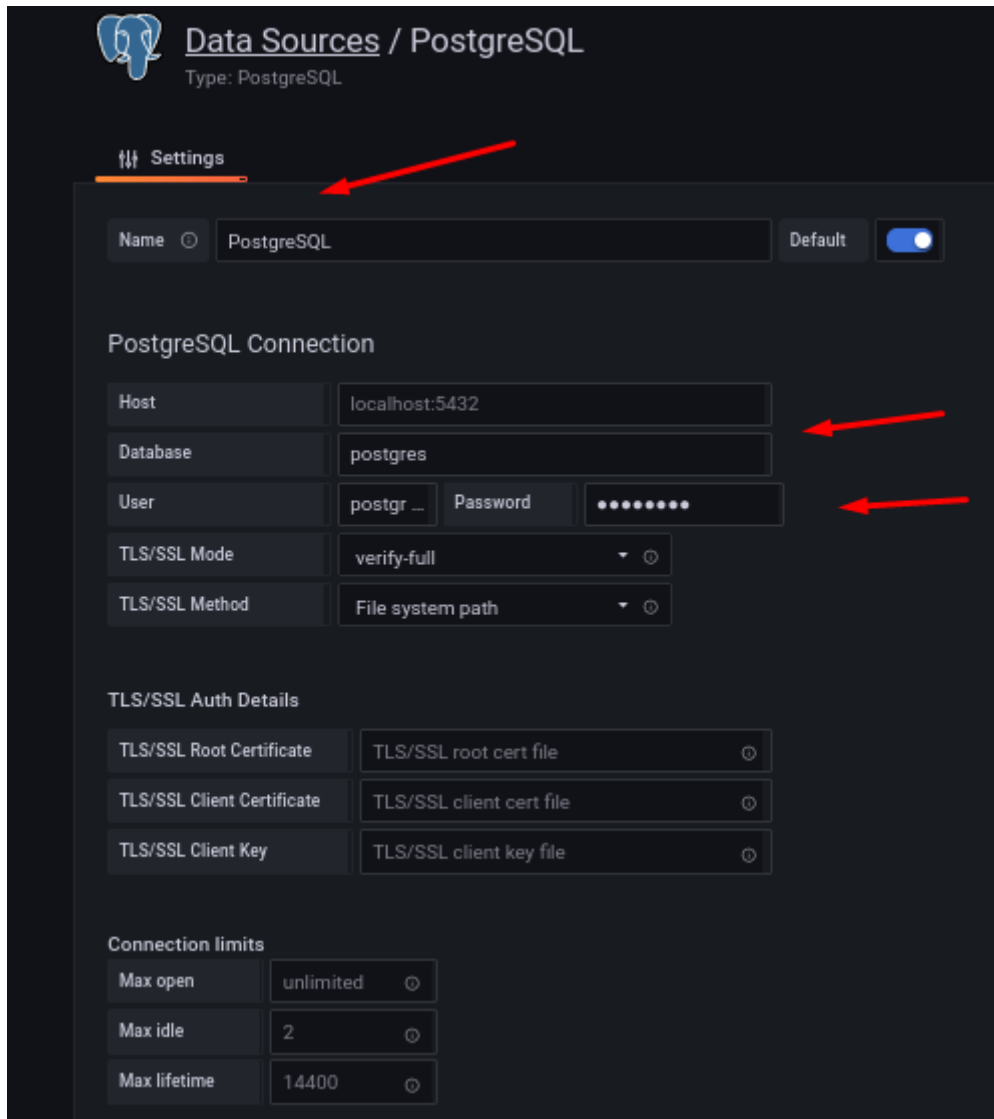


Step 2 – go to configuration -> add **data source** -> add PostgreSQL





Step 2 – add database name, user and password: all are **postgres**



**Data Sources / PostgreSQL**  
Type: PostgreSQL

**Settings**

Name: PostgreSQL Default ☒

**PostgreSQL Connection**


Host	localhost:5432		
Database	postgres		
User	postgr ...	Password	.....
TLS/SSL Mode	verify-full		
TLS/SSL Method	File system path		

**TLS/SSL Auth Details**

TLS/SSL Root Certificate	TLS/SSL root cert file
TLS/SSL Client Certificate	TLS/SSL client cert file
TLS/SSL Client Key	TLS/SSL client key file

**Connection limits**

Max open	unlimited
Max idle	2
Max lifetime	14400

 **Data Sources / PostgreSQL-1**  
Type: PostgreSQL

Settings

Name ⓘPostgreSQL

Default ☒

PostgreSQL Connection

Hostinstance-20220608-2248:5432

Databasepostgres

UserpostgresPassword●●●●●●

TLS/SSL Modedisable ⓘ

Connection limits

Max openunlimited ⓘ

Max idle2 ⓘ

Max lifetime14400 ⓘ

PostgreSQL details

Version ⓘ12+ ▾

TimescaleDB ☐ [Help >](#)

Min time interval1m ⓘ

## Grafana

### Step 2.1 – add version and click in **Save & test**

The screenshot shows the Grafana configuration interface for a PostgreSQL data source. It includes sections for TLS/SSL Auth Details, Connection limits, PostgreSQL details, and a User Permission warning. Red arrows point to the 'Version' dropdown menu and the 'Save & test' button.

**TLS/SSL Auth Details**

TLS/SSL Root Certificate	TLS/SSL root cert file
TLS/SSL Client Certificate	TLS/SSL client cert file
TLS/SSL Client Key	TLS/SSL client key file

**Connection limits**

Max open	unlimited
Max idle	2
Max lifetime	14400

**PostgreSQL details**

Version: 12+  
TimescaleDB: ☐ [Help >](#)  
Min time interval: 1m

**User Permission**

The database user should only be granted SELECT permissions on the specified database & tables you want to query. Grafana does not validate that queries are safe so queries can contain any SQL statement. For example, statements like `DELETE FROM user;` and `DROP TABLE user;` would be executed. To protect against this we Highly recommend you create a specific PostgreSQL user with restricted permissions.

Buttons: Back, Explore, Delete, **Save & test**

localhost:3000/datasources/edit/f\_IgZcR4z

### PostgreSQL Connection

Host	localhost:5432		
Database	postgres		
User	postgres	Password	configured <span>Reset</span>
TLS/SSL Mode	disable <span>▼</span> ⓘ		

#### Connection limits

Max open	unlimited ⓘ
Max idle	2 ⓘ
Max lifetime	14400 ⓘ

#### PostgreSQL details

Version ⓘ	12+ ▼
TimescaleDB	<input type="checkbox"/> <span>Help &gt;</span>
Min time interval	1m ⓘ

#### User Permission

The database user should only be granted SELECT permissions on the specified database & tables you want to query. For example, statements like `DELETE FROM user;` and `DROP TABLE user;` would be executed. To protect against this, you should restrict the user's permissions.

✓ Database Connection OK

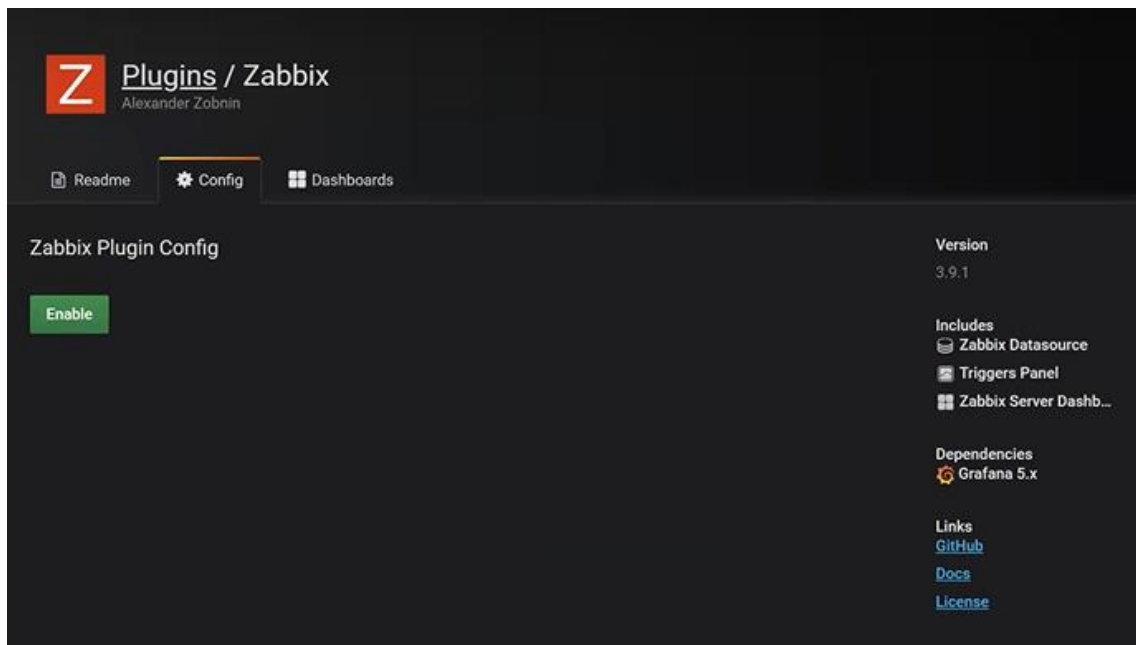
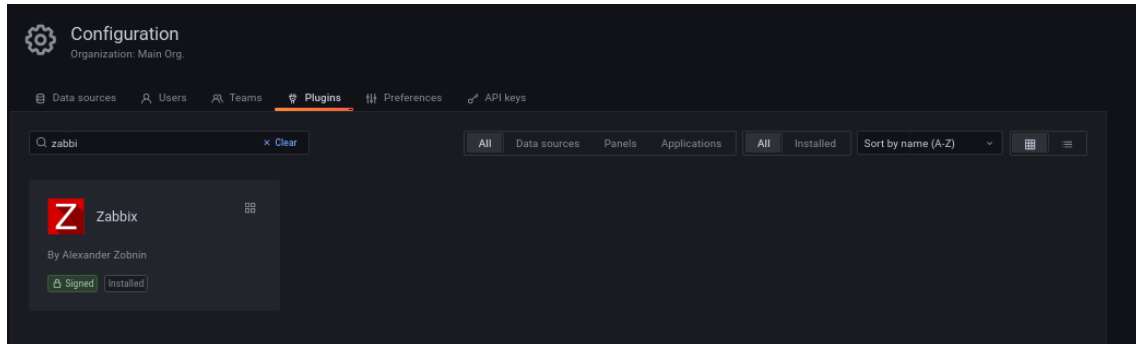
Back Explore Delete Save & test

# Grafana

## Monitor PostgreSQL with Grafana with **plugin Zabbix**

### Data source / Zabbix

Step 1 - click in Enable



Step 2 - follow picture bellow

**Data Sources / Zabbix**  
Type: Zabbix

**Settings** | Dashboards

**Settings**

Name: Zabbix ⓘ Default ☒

**HTTP**

URL: 127.0.0.1/zabbix/api\_jsonrpc.php ⓘ

Access: Server (Default) Help ▶

Whitelisted Cookies: Add Name ⓘ

**Auth**

Basic Auth ☐ With Credentials ⓘ ☐

TLS Client Auth ☐ With CA Cert ⓘ ☐

Skip TLS Verify ☐

http://127.0.0.1/zabbix/api\_jsonrpc.php

## Grafana

☐ Skip TLS Verify

### Zabbix API details

Username

Password

Trends ☐

Cache TTL

### Direct DB Connection

Enable ☐

### Alerting

Enable alerting ☐

### Other

Disable acknowledges for read-only users ☐

✓ Zabbix API version: 4.0.2

Admin

zabbix

FINISH

REFE: [https://www.youtube.com/watch?v=9TCsaf5h\\_w4&t=773s](https://www.youtube.com/watch?v=9TCsaf5h_w4&t=773s)

## Grafana

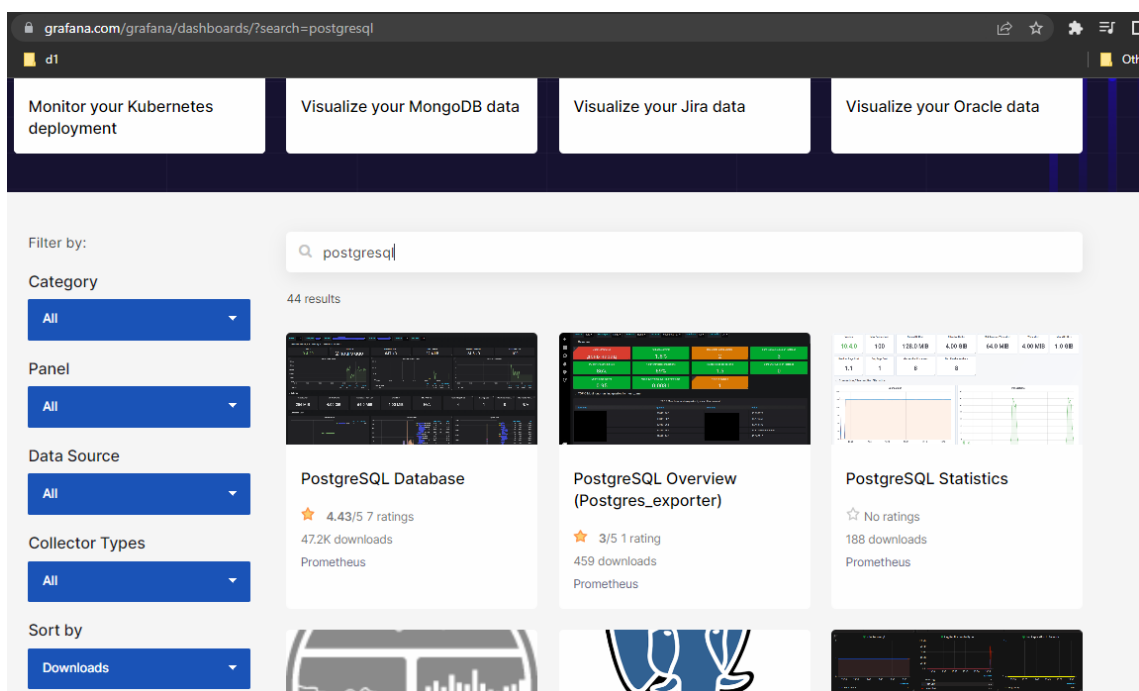
### Add dashboard about PostgreSQL in Grafana dashboard / PostgreSQL

refe: How to import a dashboard into Grafana and adapt to your datasource:

<https://www.youtube.com/watch?v=4NsME0Gz2Qk&t=337s>

Step 1 – Open site: <https://grafana.com/grafana/dashboards>

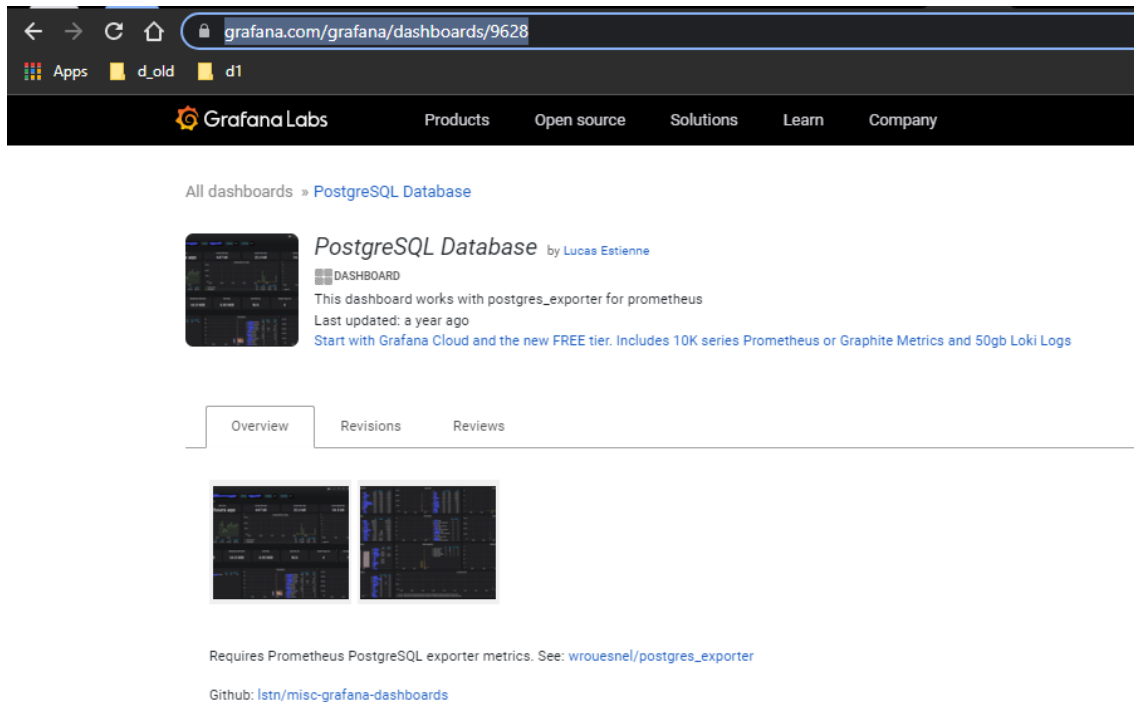
And search about **PostgreSQL**



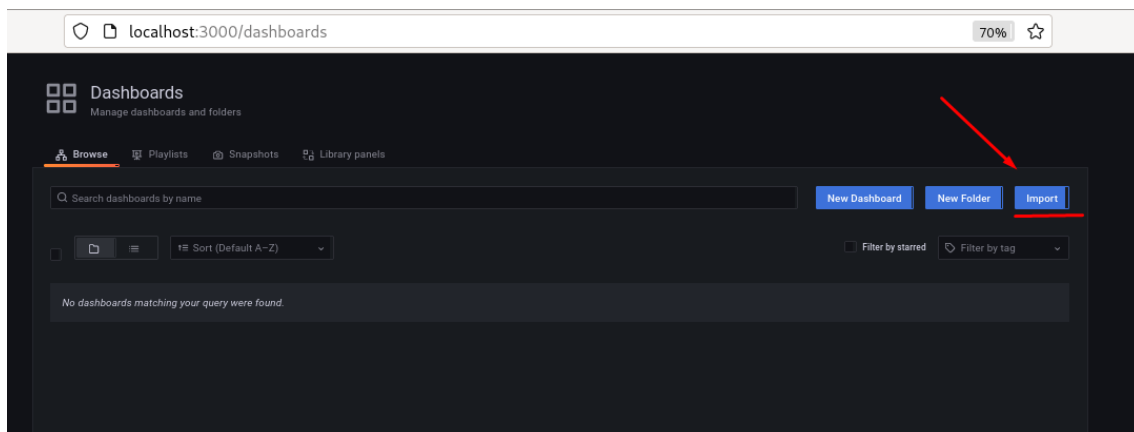


# Grafana

Step 2 – choose the one dashboard and copy the link

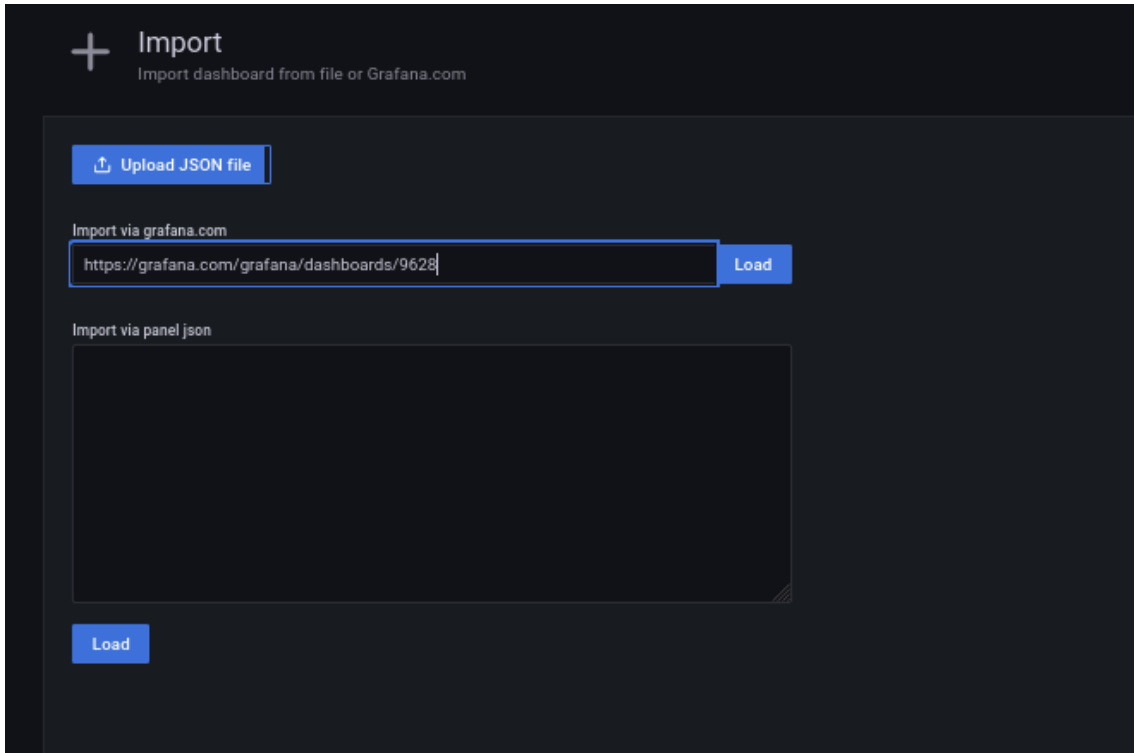


Step 3 – Open dashboard and click in import



## Grafana

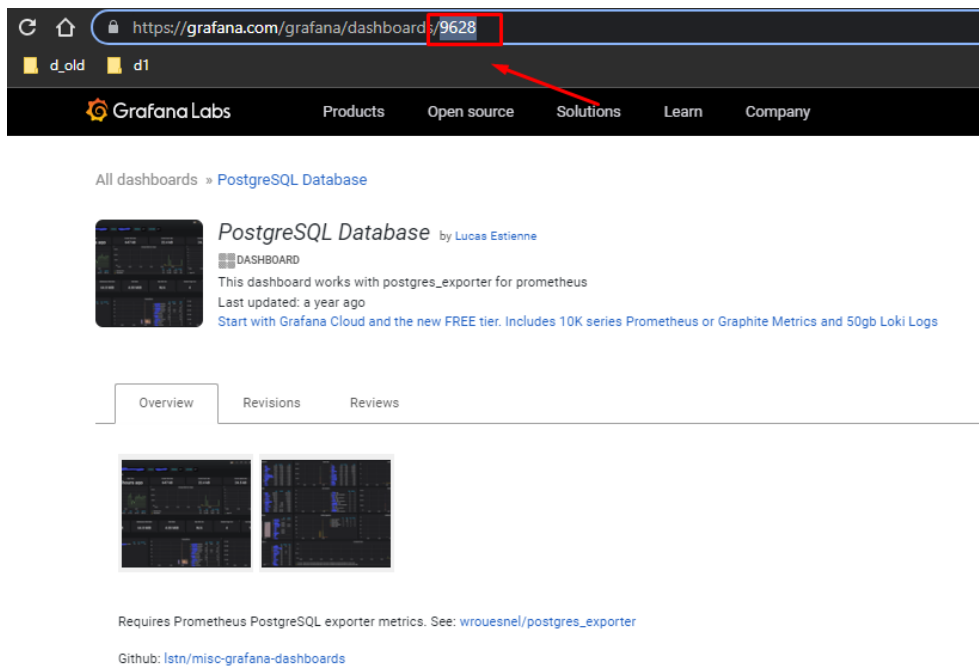
Step 3 – Paste the url and click in Load



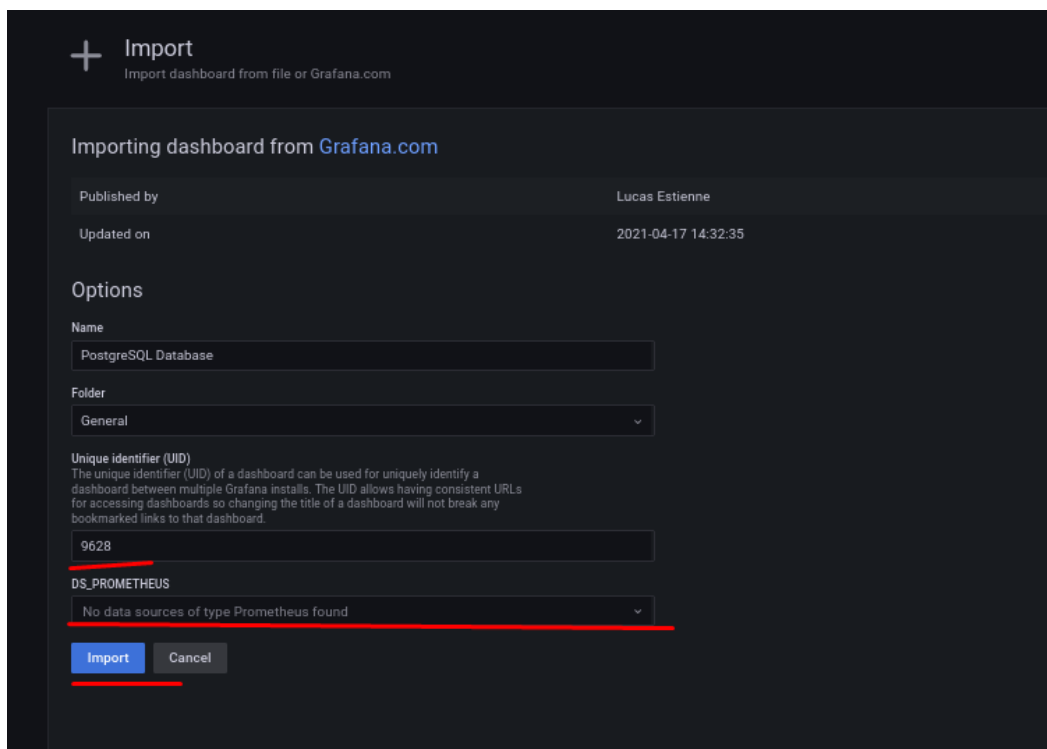
The image shows the Grafana 'Import' interface. At the top, there is a plus icon and the word 'Import', with the subtitle 'Import dashboard from file or Grafana.com'. Below this, there are three main sections. The first section is 'Upload JSON file', which has a blue button with an upload icon and the text 'Upload JSON file'. The second section is 'Import via grafana.com', which contains a text input field with the URL 'https://grafana.com/grafana/dashboards/9628' and a blue 'Load' button. The third section is 'Import via panel json', which contains a large, empty text area and a blue 'Load' button at the bottom left.

## Grafana

Step 4 – UID is the and of number of link example:



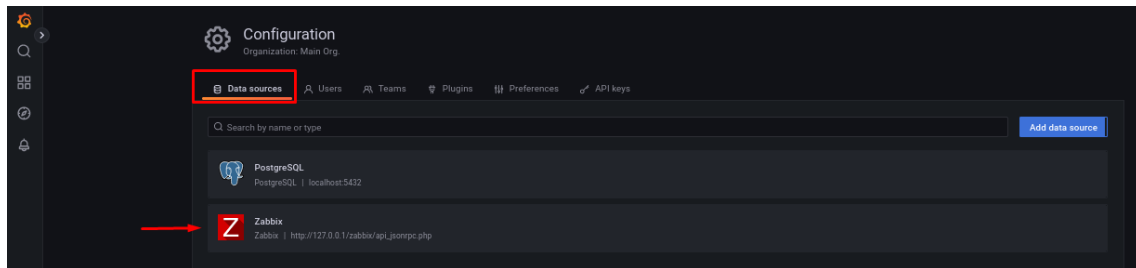
If need select the data source and click in import



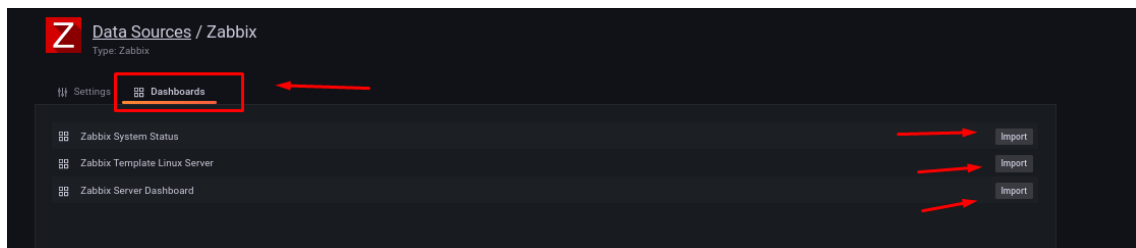
FINISH

## Add dashboard about Zabbix in Grafana dashboard / Zabbix

Step 1 – Click in data source and select Zabbix



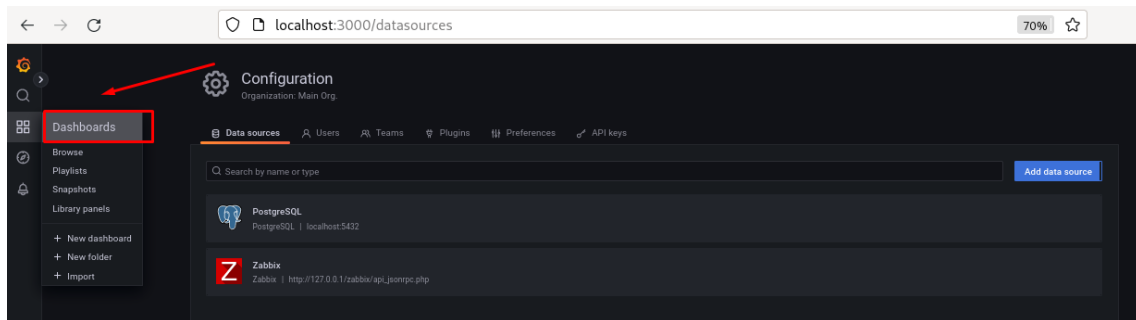
Step 2 – Click in Dashboard and enable of dashboard clicking in Import



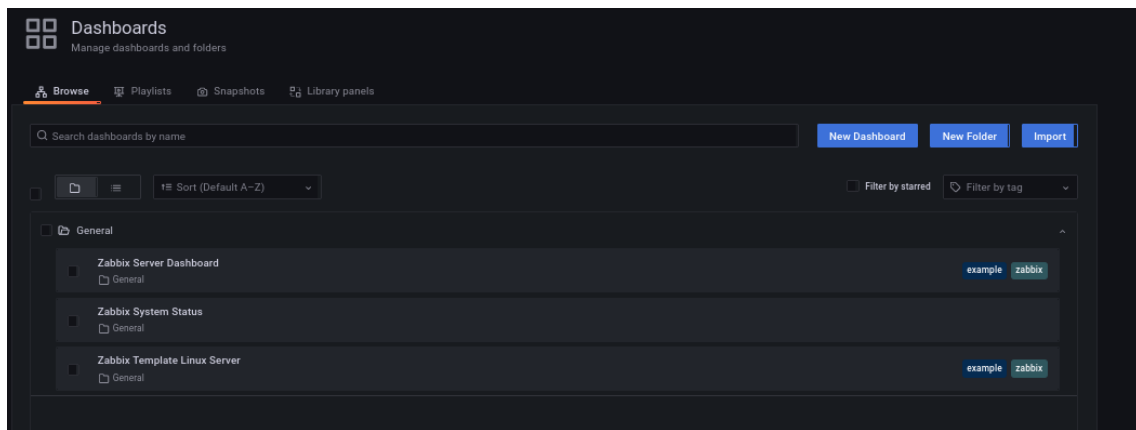
```
sudo systemctl restart grafana-server
```

# Grafana

## Step 3 – Click and dashboard



## Select which dashboard want to see



FINISH

## **DATASHEET**

### **Elaboration**

Pedro Akira Danno Lima

### **Collaboration**

Guilherme Augusto di Stefano

### **Version Revision**

Guilherme Augusto di Stefano

### **Version 1.0**

July / 2022