

# 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

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



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

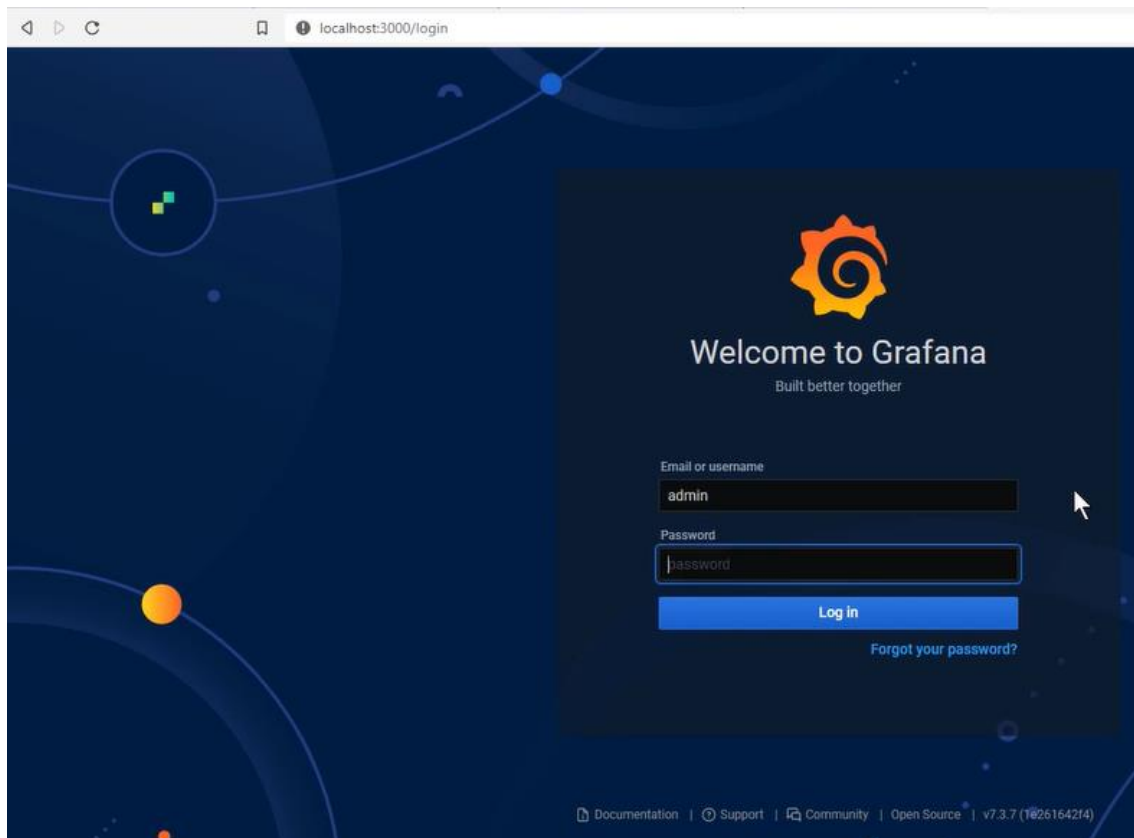
Step 1 – open browser and put:

`http://localhost:3000`

Step 2 – login

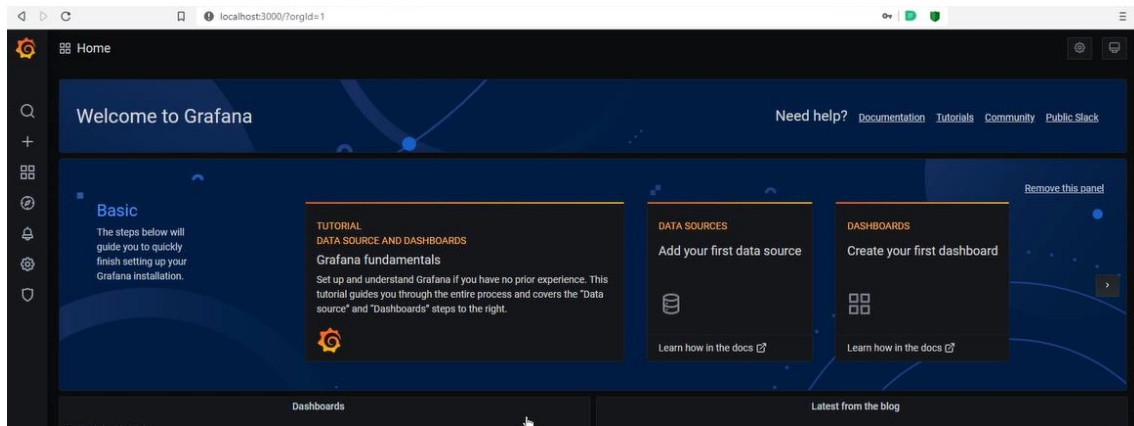
**User:** admin

**Password:** admin



# Grafana

## Step 3 – the Grafana default page



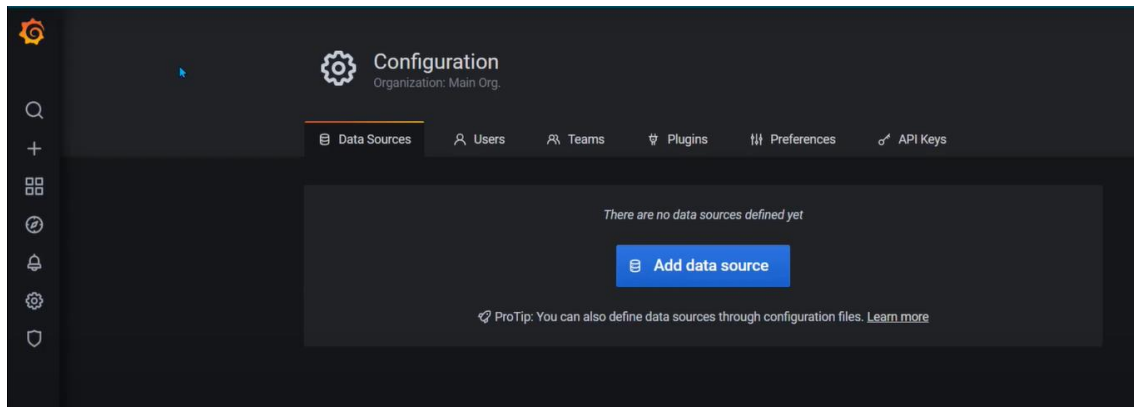
## Grafana

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

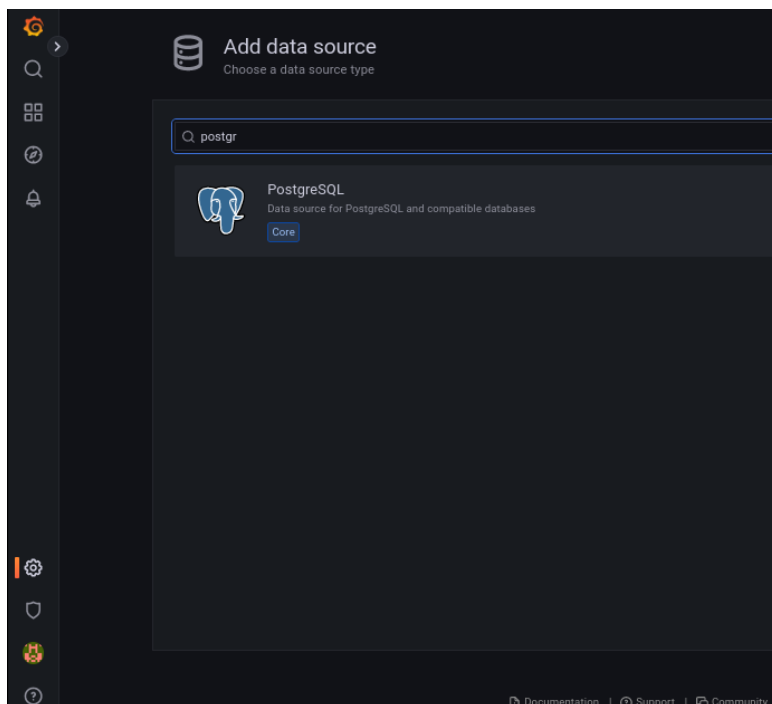
#### Data source / PostgreSQL

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**

The screenshot shows the Grafana 'Data Sources / PostgreSQL' configuration page. The 'Name' field is set to 'PostgreSQL' and is marked as the 'Default' source with a toggle switch. The 'PostgreSQL Connection' section contains fields for 'Host' (localhost:5432), 'Database' (postgres), 'User' (postgr...), and 'Password' (masked with dots). The 'TLS/SSL Mode' is set to 'verify-full' and the 'TLS/SSL Method' is 'File system path'. The 'TLS/SSL Auth Details' section has fields for 'Root Certificate', 'Client Certificate', and 'Client Key', all pointing to default file paths. The 'Connection limits' section shows 'Max open' as 'unlimited', 'Max idle' as '2', and 'Max lifetime' as '14400'. Three red arrows point to the 'Name', 'Host', and 'Password' fields respectively.

**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 highlight the 'Version' dropdown menu in the PostgreSQL details section and the 'Save & test' button at the bottom.

**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

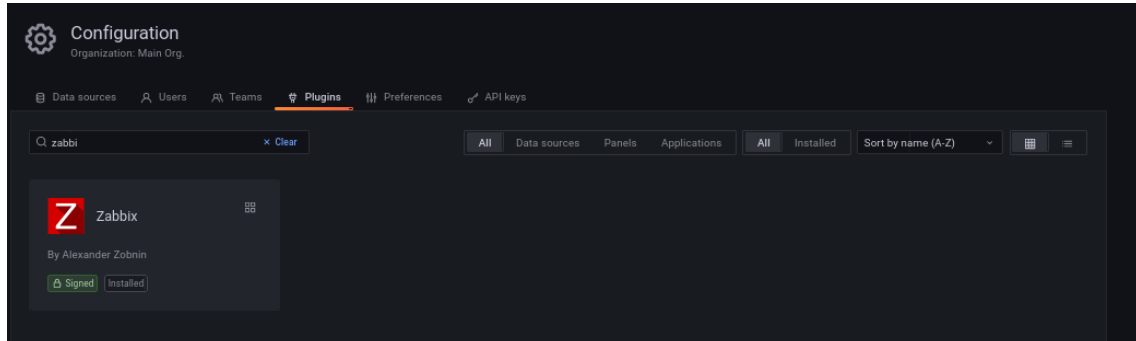
Back Explore Delete Save & test

## Grafana

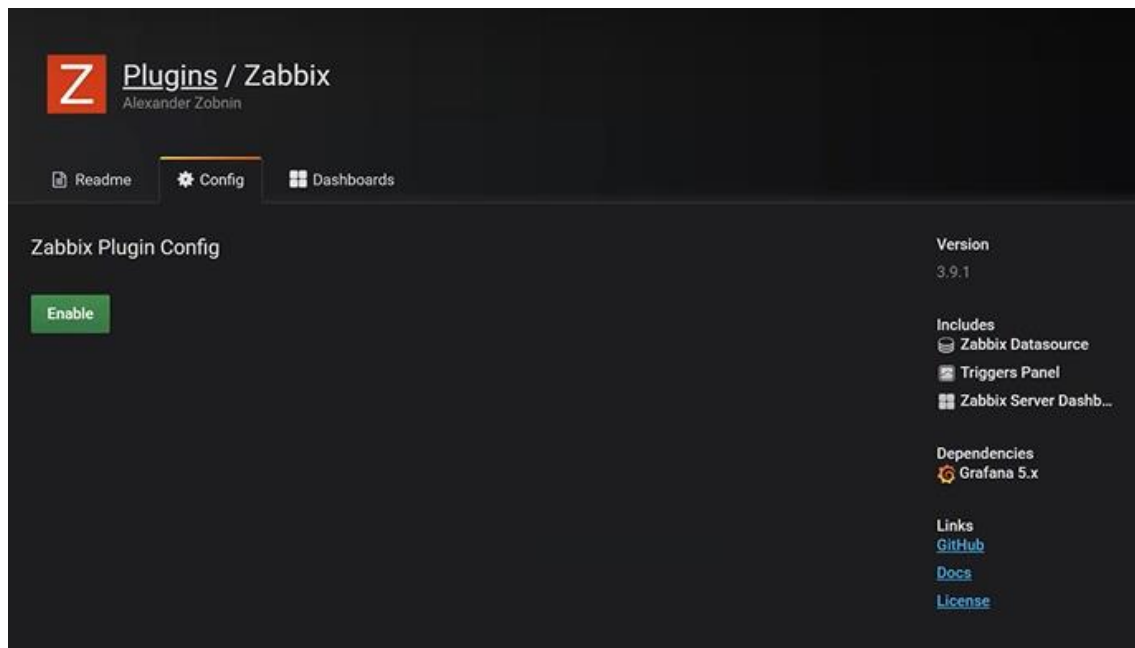
### Monitor PostgreSQL with Grafana with **plugin Zabbix**

Data source / Zabbix


Step 1 - click in Enable



## Grafana



Step 2 - follow picture bellow



## Data Sources / Zabbix

Type: Zabbix

Settings

Dashboards

### Settings

Name	Zabbix	Default	<input checked="" type="checkbox"/>
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### HTTP

URL	127.0.0.1/zabbix/api_jsonrpc.php	
Access	Server (Default)	Help
Whitelisted Cookies	Add Name	

### Auth

Basic Auth	<input type="checkbox"/>	With Credentials	<input type="checkbox"/>
TLS Client Auth	<input type="checkbox"/>	With CA Cert	<input type="checkbox"/>
Skip TLS Verify	<input type="checkbox"/>		

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)



## **DATASHEET**

### **Elaboration**

Pedro Akira Danno Lima

### **Collaboration**

Guilherme Augusto di Stefano

### **Version Revision**

Guilherme Augusto di Stefano

### **Version 1.0**

July / 2022