

1. Subir o ambiente de monitoramento com Zabbix e grafana através do docker.
 - a. Realizar o download do docker compose:

git clone <https://github.com/carryontech/maratona-docker.git>

```
[root@ip-172-31-73-74 tmp]# git clone https://github.com/carryontech/maratona-docker.git
Cloning into 'maratona-docker'...
remote: Enumerating objects: 43, done.
remote: Counting objects: 100% (43/43), done.
remote: Compressing objects: 100% (35/35), done.
remote: Total 43 (delta 4), reused 20 (delta 1), pack-reused 0
Unpacking objects: 100% (43/43), 12.66 KiB | 1.41 MiB/s, done.
[root@ip-172-31-73-74 tmp]#
```

- b. Acessar a pasta “maratona-docker/paths/live-04/zabbix-server-agent-grafana” e você vai ter um arquivo docker-compose.yml.

cd maratona-docker/paths/live-04/zabbix-server-agent-grafana

```
[root@ip-172-31-73-74 tmp]# git clone https://github.com/carryontech/maratona-docker.git
Cloning into 'maratona-docker'...
remote: Enumerating objects: 43, done.
remote: Counting objects: 100% (43/43), done.
remote: Compressing objects: 100% (35/35), done.
remote: Total 43 (delta 4), reused 20 (delta 1), pack-reused 0
Unpacking objects: 100% (43/43), 12.66 KiB | 1.41 MiB/s, done.
[root@ip-172-31-73-74 tmp]# cd maratona-docker/paths/live-04/zabbix-server-agent-grafana/
[root@ip-172-31-73-74 zabbix-server-agent-grafana]# ls
docker-compose.yml
[root@ip-172-31-73-74 zabbix-server-agent-grafana]#
```

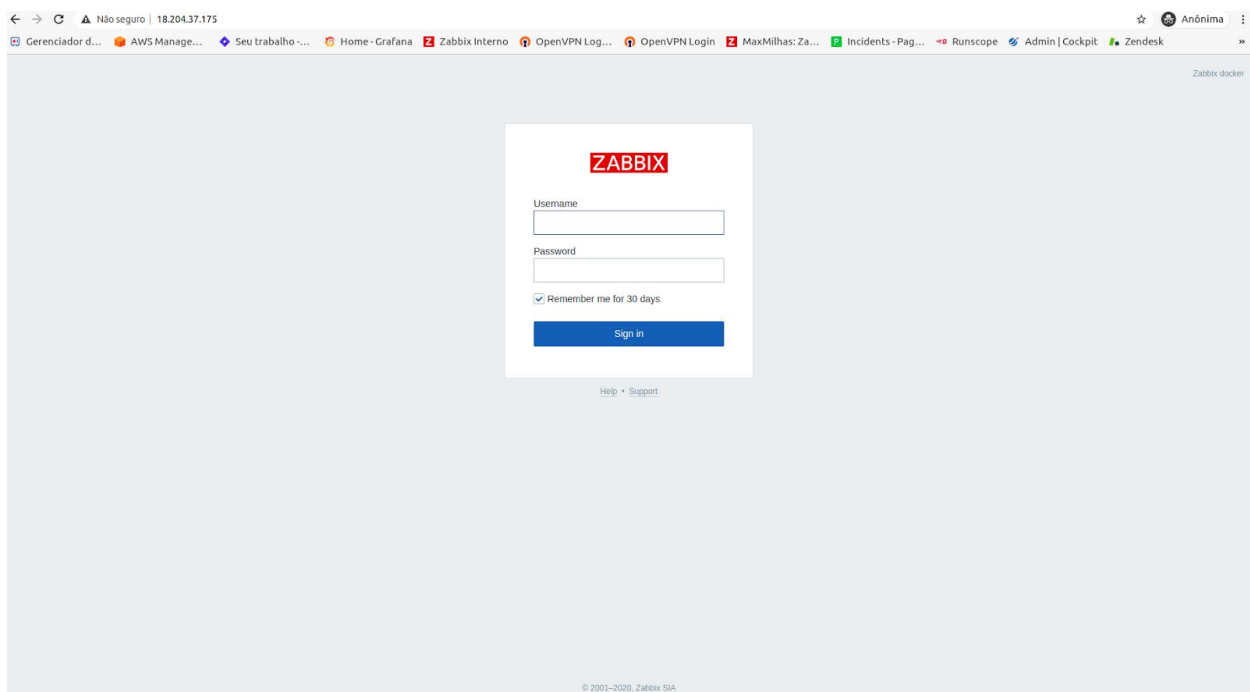
- c. Executar o comando **docker-compose up -d**

```
[root@ip-172-31-73-74 zabbix-server-agent-grafana]# docker-compose up -d
```

```
[root@ip-172-31-73-74 zabbix-server-agent-grafana]# docker-compose up -d
Pulling mysql (mysql:5.7)...
5.7: Pulling from library/mysql
852e50cd189d: Pulling fs layer
852e50cd189d: Downloading [>
277kB/27.11MBnload complete
5cdd802543a3: Waiting
852e50cd189d: Downloading [=====>
6.683MB/27.11MBting
852e50cd189d: Pull complete
29969ddb0ffb: Pull complete
a43f41a44c48: Pull complete
5cdd802543a3: Pull complete
b79b040de953: Pull complete
938c64119969: Pull complete
7689ec51a0d9: Pull complete
36bd6224d58f: Pull complete
cab9d3fa4c8c: Pull complete
1b741e1c47de: Pull complete
aac9d11987ac: Pull complete

Digest: sha256:448458f2f8499b84a418658ab3bbe30237a893db6609ac1aa3941682f43e3d8d
Status: Downloaded newer image for zabbix/zabbix-agent2:alpine-5.0.1
Creating mysql ... done
Creating zabbix-server ... done
Creating zabbix-frontend ... done
Creating zabbix-agent ... done
Creating grafana ... done
[root@ip-172-31-73-74 zabbix-server-agent-grafana]#
```

d. Acessa o Zabbix pelo navegador. (Usuario: Admin / Senha: zabbix)



2. Configurar host com o serviço do Docker instalando.

a. Realizar o download do docker compose:

git clone <https://github.com/carryontech/maratona-docker.git>

```
[root@ip-172-31-73-74 tmp]# git clone https://github.com/carryontech/maratona-docker.git
Cloning into 'maratona-docker'...
remote: Enumerating objects: 43, done.
remote: Counting objects: 100% (43/43), done.
remote: Compressing objects: 100% (35/35), done.
remote: Total 43 (delta 4), reused 20 (delta 1), pack-reused 0
Unpacking objects: 100% (43/43), 12.66 KiB | 1.41 MiB/s, done.
[root@ip-172-31-73-74 tmp]#
```

b. Acessar a pasta “maratona-docker/paths/live-04/zabbix-server-agent-grafana” e você vai ter um arquivo docker-compose.yml.

cd maratona-docker/paths/live-04/zabbix-agent/

```
[root@ip-172-31-32-223 tmp]# git clone https://github.com/carryontech/maratona-docker.git
Cloning into 'maratona-docker'...
remote: Enumerating objects: 43, done.
remote: Counting objects: 100% (43/43), done.
remote: Compressing objects: 100% (35/35), done.
remote: Total 43 (delta 4), reused 20 (delta 1), pack-reused 0
Unpacking objects: 100% (43/43), done.
[root@ip-172-31-32-223 tmp]# cd maratona-docker/paths/live-04/zabbix-agent/
[root@ip-172-31-32-223 zabbix-agent]# ls
docker-compose.yml
[root@ip-172-31-32-223 zabbix-agent]#
```

c. Acessar o arquivo do docker-compose.yml e alterar o IP do Zabbix Server.

vi docker-compose.yml

```
services:
  zabbix-agent:
    container_name: zabbix-agent
    image: zabbix/zabbix-agent2:alpine-5.0.1
    user: root
    restart: always
    privileged: true
    volumes:
      - /var/run:/var/run
    ports:
      - '10050:10050'
    environment:
      - ZBX_HOSTNAME=Zabbix_server
      - ZBX_SERVER_HOST=172.31.32.223
```

d. Executar o comando **docker-compose up -d**

```
[root@ip-172-31-32-223 zabbix-agent]# docker-compose up -d
WARNING: Some networks were defined but are not used by any service: network-zabbix
Pulling zabbix-agent (zabbix/zabbix-agent2:alpine-5.0.1)...
Trying to pull repository docker.io/zabbix/zabbix-agent2 ...
alpine-5.0.1: Pulling from docker.io/zabbix/zabbix-agent2
cbdbe7a5bc2a: Pull complete
37966794057f: Pull complete
276d22d48c64: Pull complete
8e870cf009c1: Pull complete
Digest: sha256:448458f2f8499b84a418658ab3bbe30237a893db6609ac1aa3941682f43e3d8d
Status: Downloaded newer image for docker.io/zabbix/zabbix-agent2:alpine-5.0.1
Creating zabbix-agent ... done
[root@ip-172-31-32-223 zabbix-agent]#
```

3. Configurar monitoramento no Zabbix.

a. Acessar a aba de configuração/host

The screenshot displays the Zabbix web interface for configuring hosts. The left sidebar shows the navigation menu with options like Monitoring, Inventory, Reports, Configuration, Maintenance, Actions, Event correlation, Discovery, Services, Administration, Support, Share, Help, User settings, and Sign out. The main panel is titled 'Hosts' and features a 'Create host' button. Below this, there's a form to add a new host with fields for Host groups, Templates, Name, DNS, IP, and Port. There are also filters for 'Monitored by' (Any, Server, Proxy) and 'Tags' (And/Or, Or). A table below the form lists existing hosts, with columns for Name, Applications, Items, Triggers, Graphs, Discovery, Web, Interface, Proxy, Templates, Status, Availability, Agent encryption, and Info. The table shows one host named 'Zabbix server' with a status of 'Enabled' and a list of templates. At the bottom, there are buttons for '0 selected', 'Enable', 'Disable', 'Export', 'Mass update', and 'Delete'.

- b. Clicar na opção “Create host” e preencher as informações do host que será monitorado

ZABBIX Zabbix docker

Hosts

Host Templates IPMI Tags Macros Inventory Encryption

* Host name Docker Host 01

Visible name

* Groups Linux servers X type here to search Select

* Interfaces

Type	IP address	DNS name	Connect to	Port	Default
Agent	172.31.32.223		IP DNS	10050	<input checked="" type="radio"/> Remove

Add

Description

Monitored by proxy (no proxy) v

Enabled ☒

Add Cancel

- c. Adicionar o template do Docker “Template App Docker”, em seguida clique em “Add”

ZABBIX Zabbix docker

Hosts

Host Templates IPMI Tags Macros Inventory Encryption

Linked templates

Name	Action
------	--------

Link new templates

Template App Docker X type here to search Select

Add Cancel

Zabbix 5.0.1. © 2001–2020, Zabbix SIA

ZABBIX << Hosts Create host Import

Host added

Filter

Host groups: type here to search Select Monitored by: Any Server Proxy

Templates: type here to search Select Proxy: Select

Name: Tags: And/Or Or

DNS: tag: Contains Equals Remove

IP: Add

Port: Apply Reset

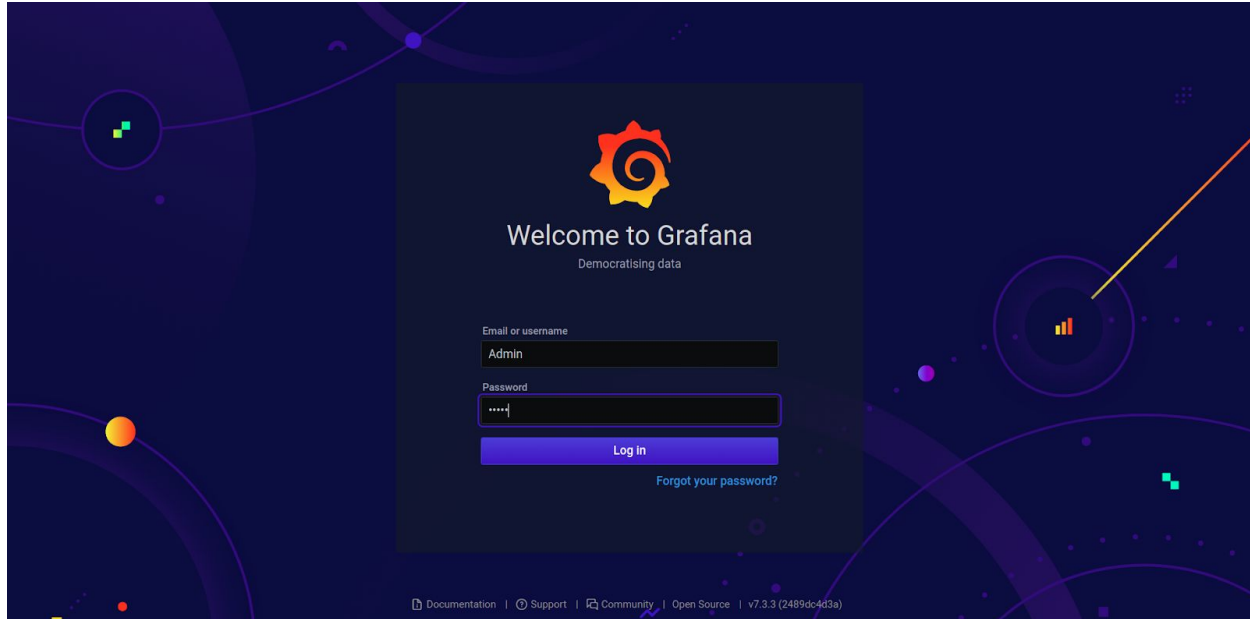
<input type="checkbox"/>	Name	Applications	Items	Triggers	Graphs	Discovery	Web	Interface	Proxy	Templates	Status	Availability	Agent encryption	Info	Tags
<input type="checkbox"/>	Docker Host 01	Applications 2	Items 44	Triggers 3	Graphs 5	Discovery 2	Web	172.31.32.223:10050		Template App Docker	Enabled	ZBX SHMP JMX IPMI	NONE		
<input type="checkbox"/>	Zabbix server	Applications 12	Items 88	Triggers 48	Graphs 14	Discovery 3	Web	127.0.0.1:10050		Template App Zabbix Server, Template OS Linux by Zabbix agent (Template Module Linux block devices by Zabbix agent, Template Module Linux CPU by Zabbix agent, Template Module Linux filesystems by Zabbix agent, Template Module Linux generic by Zabbix agent, Template Module Linux memory by Zabbix agent, Template Module Linux network interfaces by Zabbix agent, Template Module Zabbix agent)	Enabled	ZBX SHMP JMX IPMI	NONE		

0 selected Enable Disable Export Mass update Delete

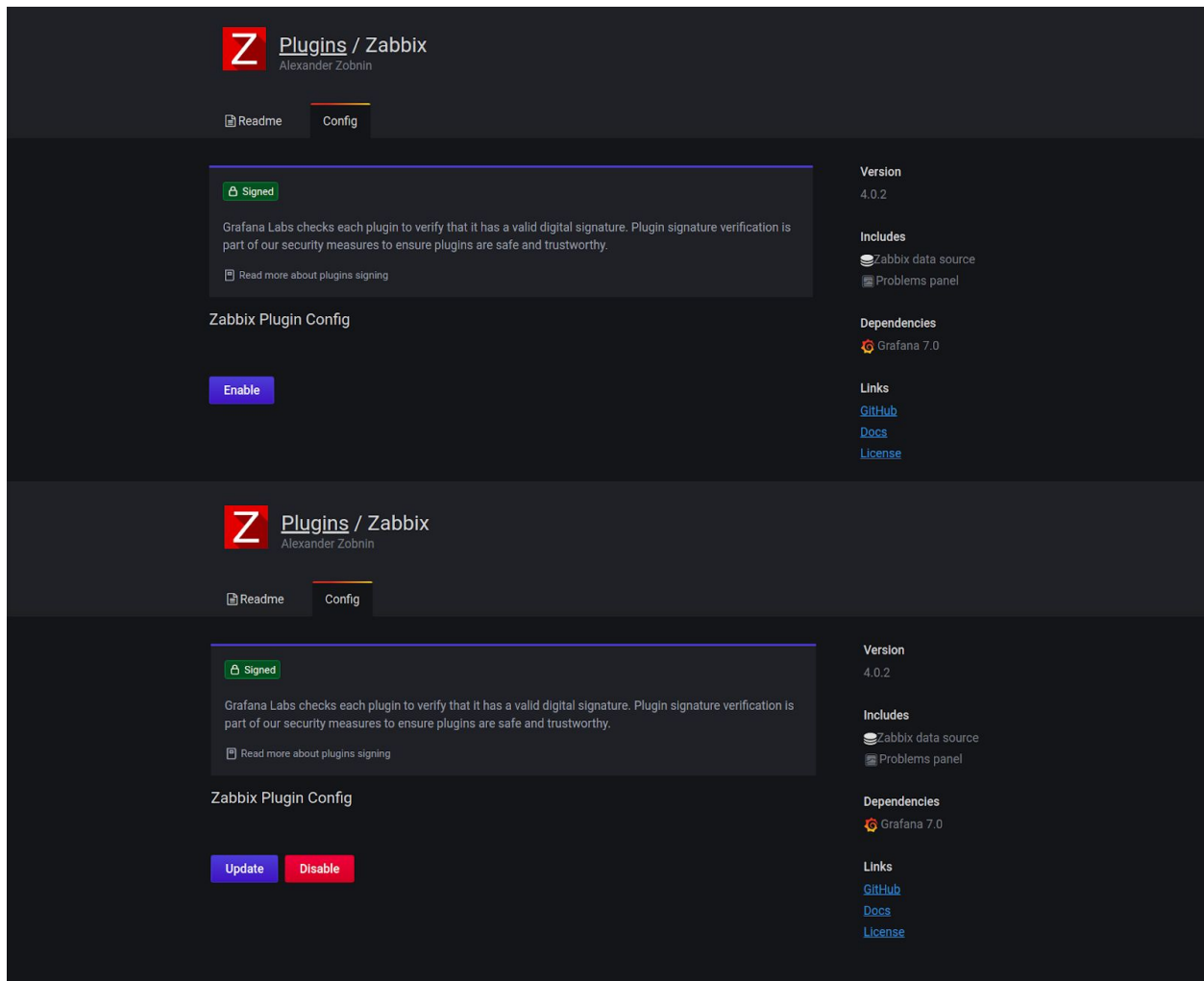
Displaying 2 of 2 found

4. Configurar integração do Grafana e Zabbix

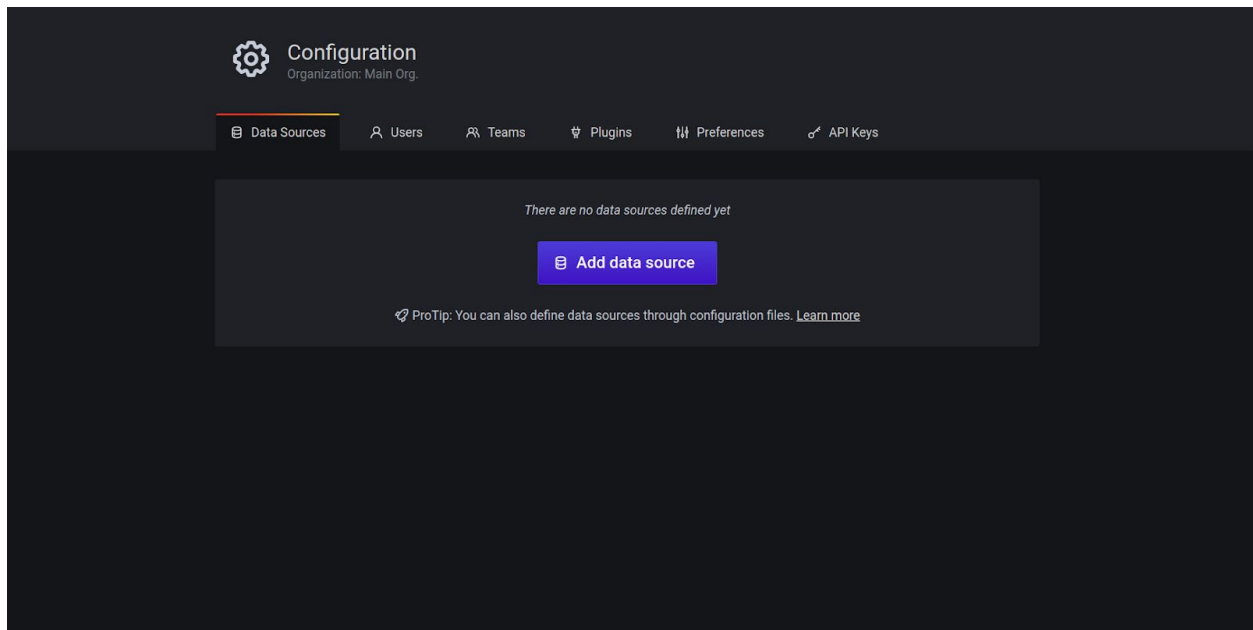
- Acessar painel do Grafana. (<http://18.204.37.175:3000/>) (Usuario: admin / Senha: admin)



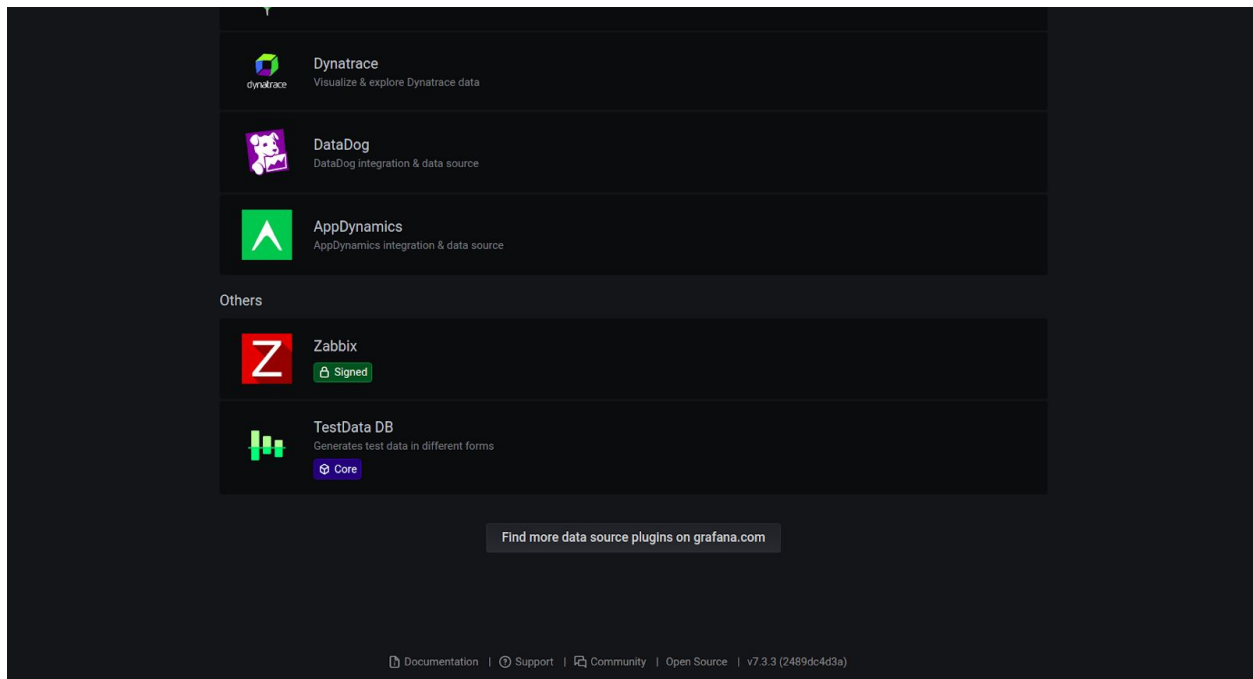
b. Habilitar plugin do Zabbix. **(Configuration/Plugins)**



c. Configurar Data Source. **(Configuration/Data Sources/Add data source)**



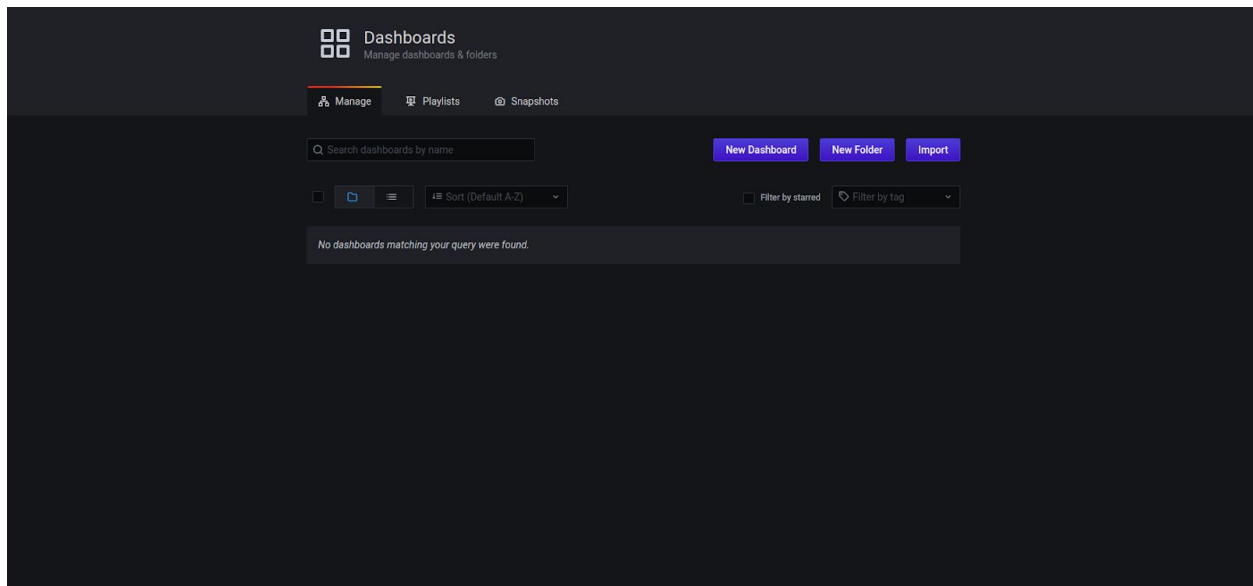
d. Selecionar o data source “Zabbix”



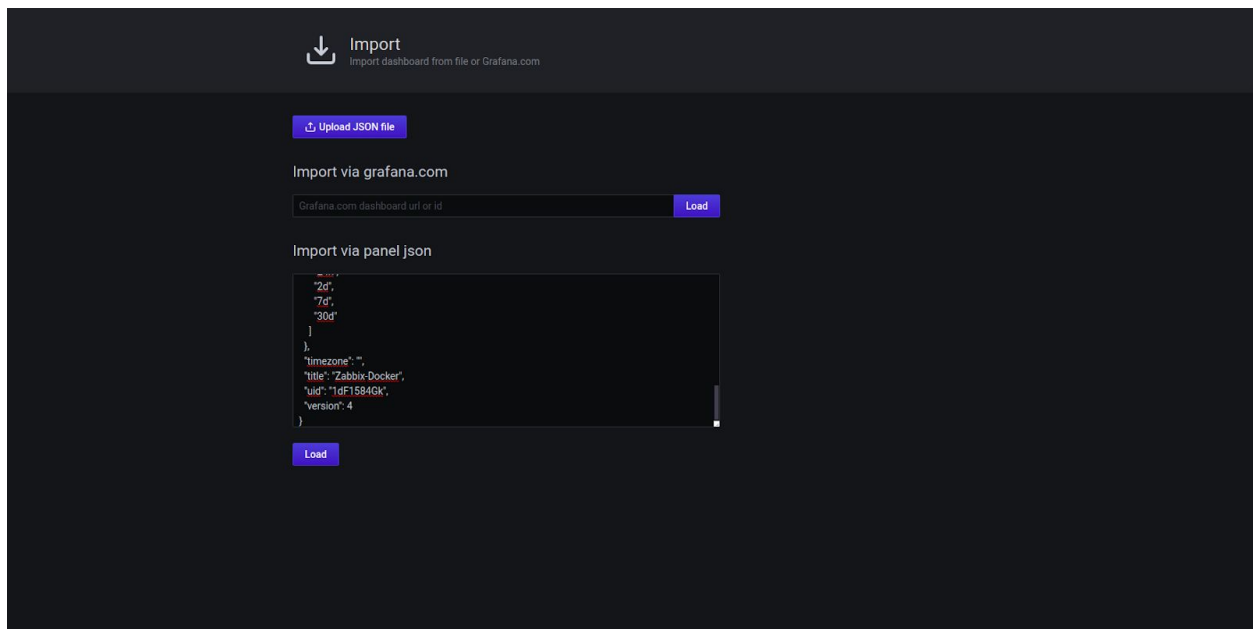
e. Preencher as informações e clicar em “save e test”

The screenshot shows the Grafana Data Sources configuration page for Zabbix. The 'Settings' tab is active. Fields include Name (Zabbix), HTTP URL (http://18.204.37.175/api_jsonrpc.php), Access (Server (default)), Auth (Basic auth, TLS Client Auth, Skip TLS Verify, Forward OAuth Identity), Custom HTTP Headers, Zabbix API details (Username: Admin, Password: *****, Trends: enabled, After: 7d), Direct DB Connection (Enable: disabled), and Other (Disable acknowledgements for read-only users: disabled). A green success message at the bottom says 'Zabbix API version: 5.0.1'. Buttons at the bottom are 'Save & Test', 'Delete', and 'Back'.


f. Acessar (Dashbord / Manage / Import)



g. Colar o conteúdo do arquivo dashboard-docker.json ou fazer o upload (<https://github.com/carryontech/maratona-docker/blob/main/paths/live-04/grafana/dashboard-docker.json>)



h. Clicar em “import”

 **Import**
Import dashboard from file or Grafana.com

Options

Name

Zabbix-Docker

Folder

General

Unique Identifier (uid)

The unique identifier (uid) of a dashboard can be used to uniquely identify a dashboard between multiple Grafana installs. The uid allows having consistent URLs for accessing dashboards so changing the title of a dashboard will not break any bookmarked links to that dashboard.

TdF1584Gk

Change uid

Import

Cancel

i. Em seguida vai abrir a tela do Dashboard

