1. Subir o ambiente de monitoramento com Zabbix e grafana atraves 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-d
ocker.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-d
ocker.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-agen
t-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]#
```

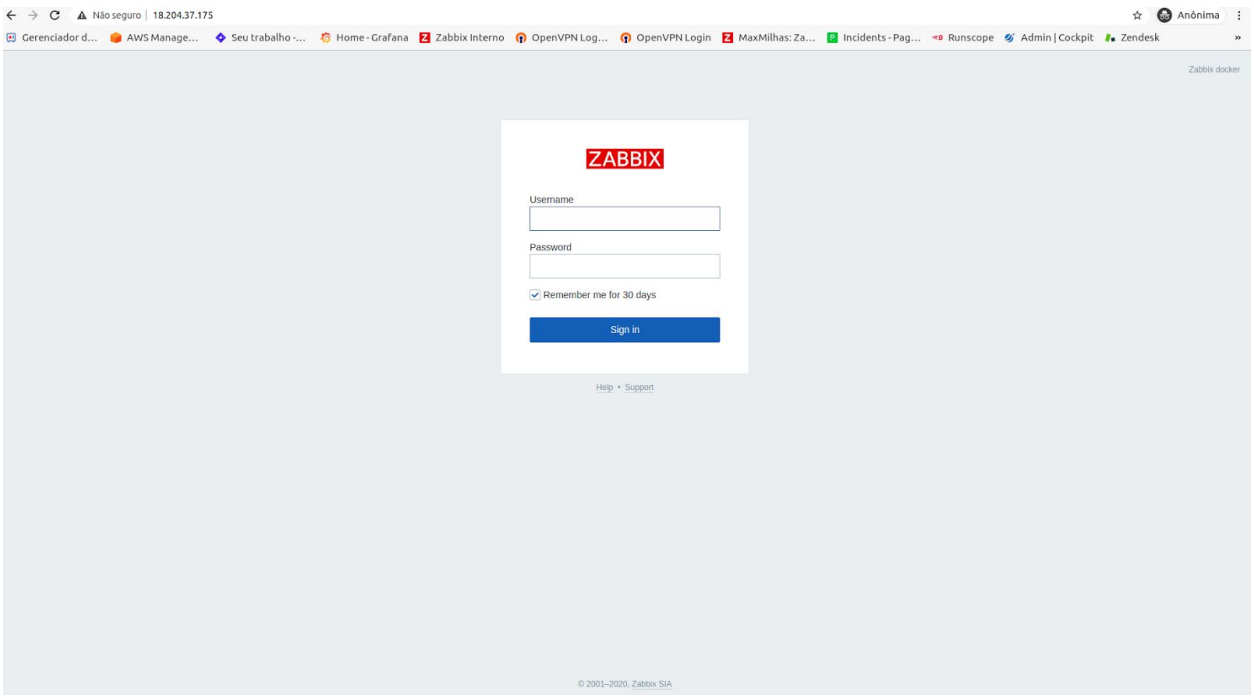
    c. Exectuar o comando **docker-compose up -d**

```
[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-d
ocker.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]#
```

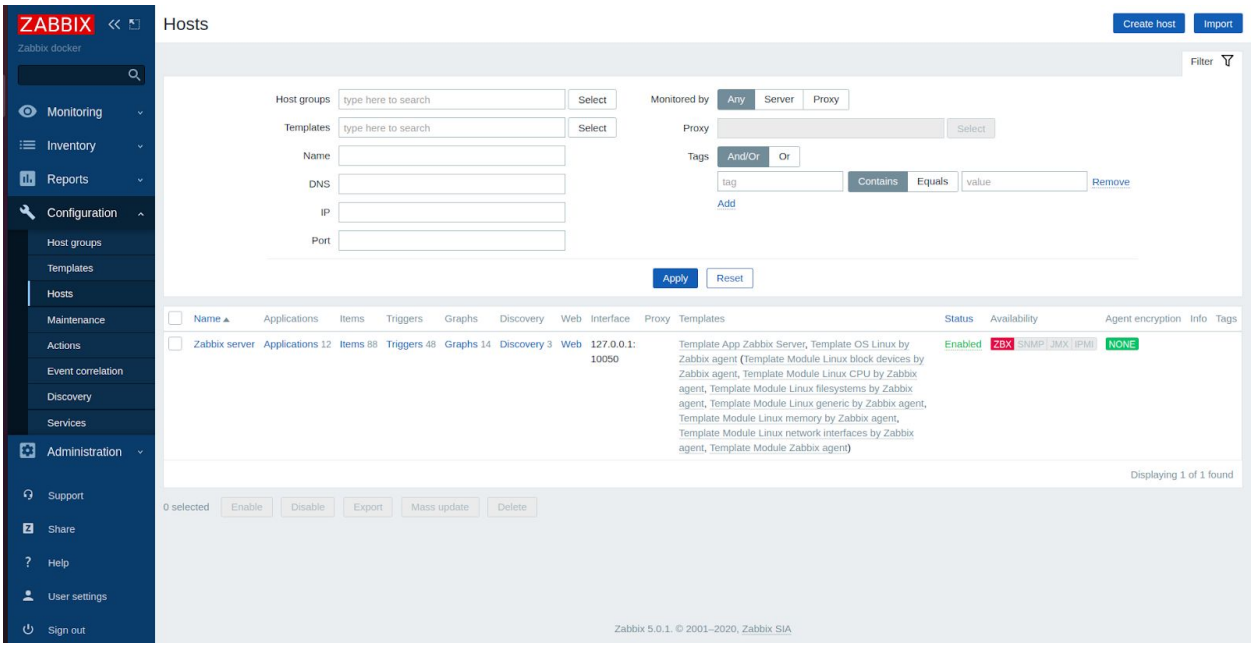
    c. Acessar o arquivo do docker-compose.yml e alterar o IP do Zabbix Server.
    vi docker-compose.yml

```
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
```

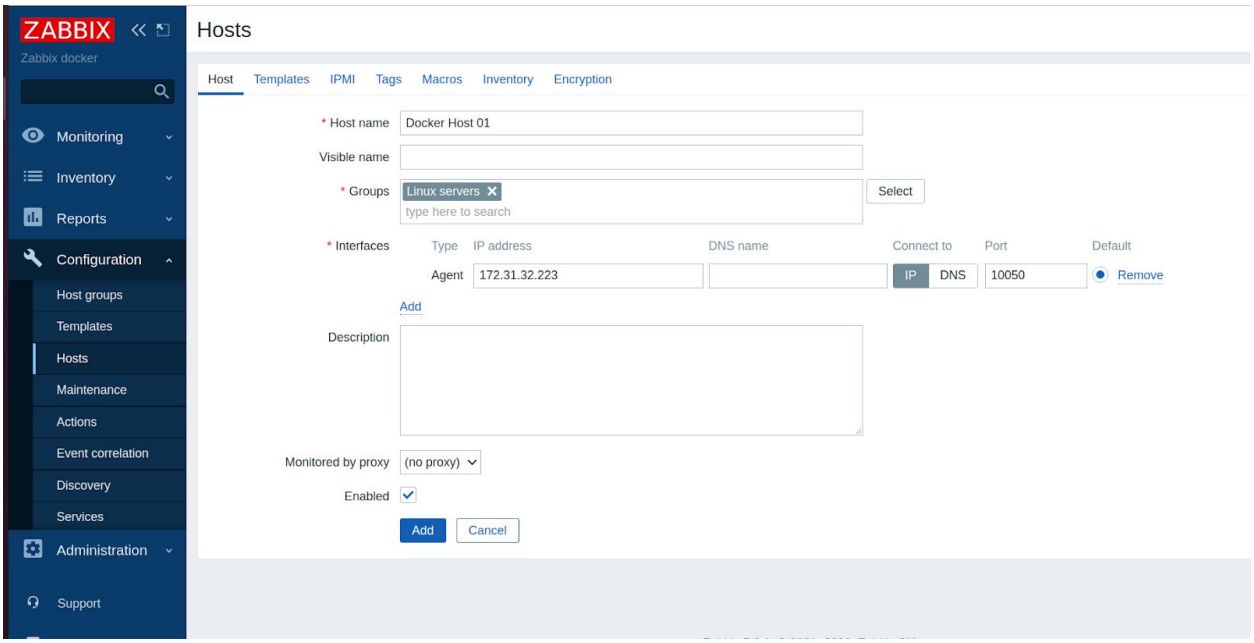
d. Exectuar o comando **docker-compose up -d**

```
[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-za
bbix
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]#
```

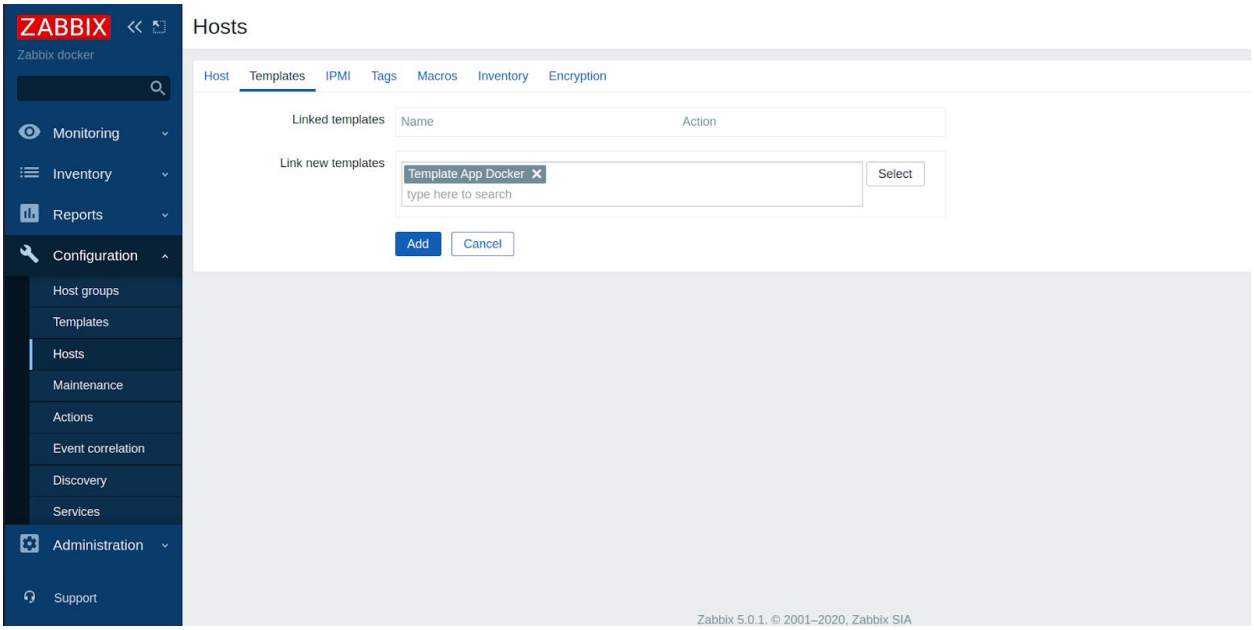
3. Configurar monitoramento no Zabbix.
    a. Acessar a aba de configuração/host

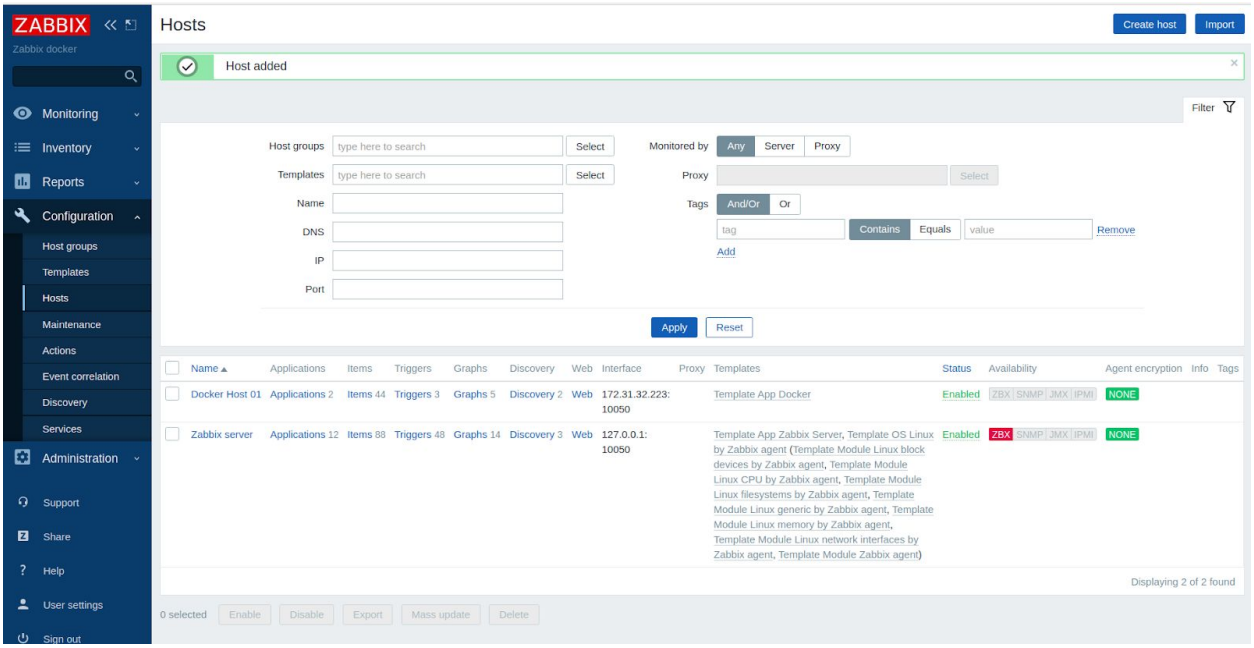


b. Clicar na opção “Create host” e preencher as informações do host que será monitorado

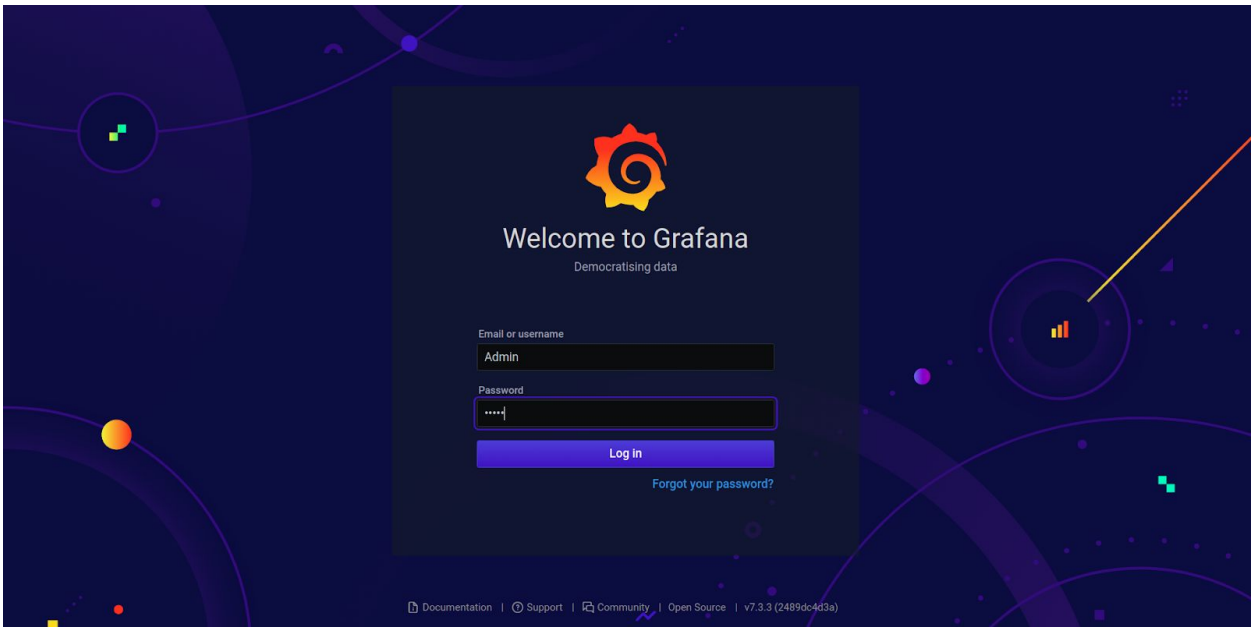


c. Adicionar o template do Docker “Template App Docker”, em seguida clique em “Add”

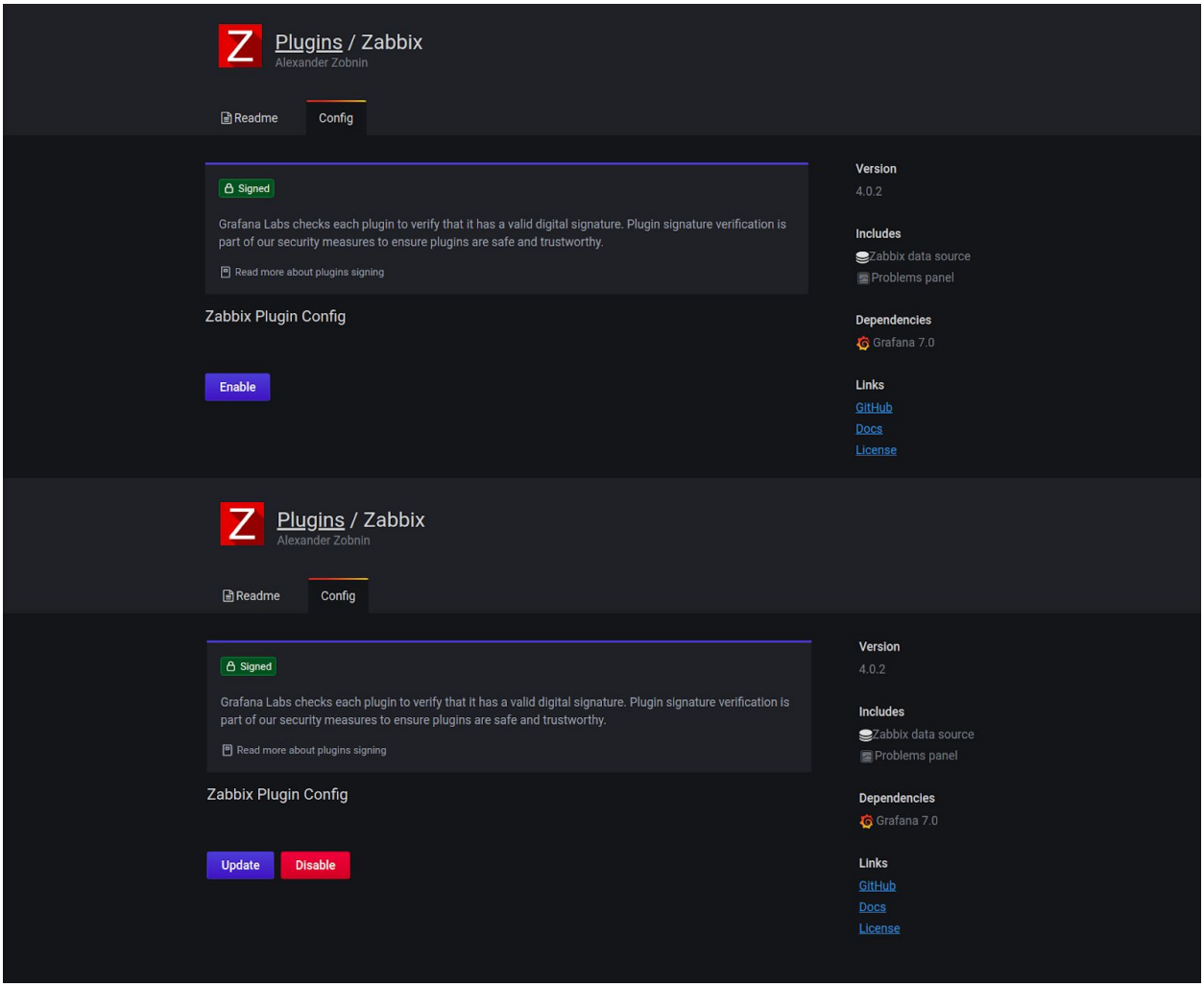




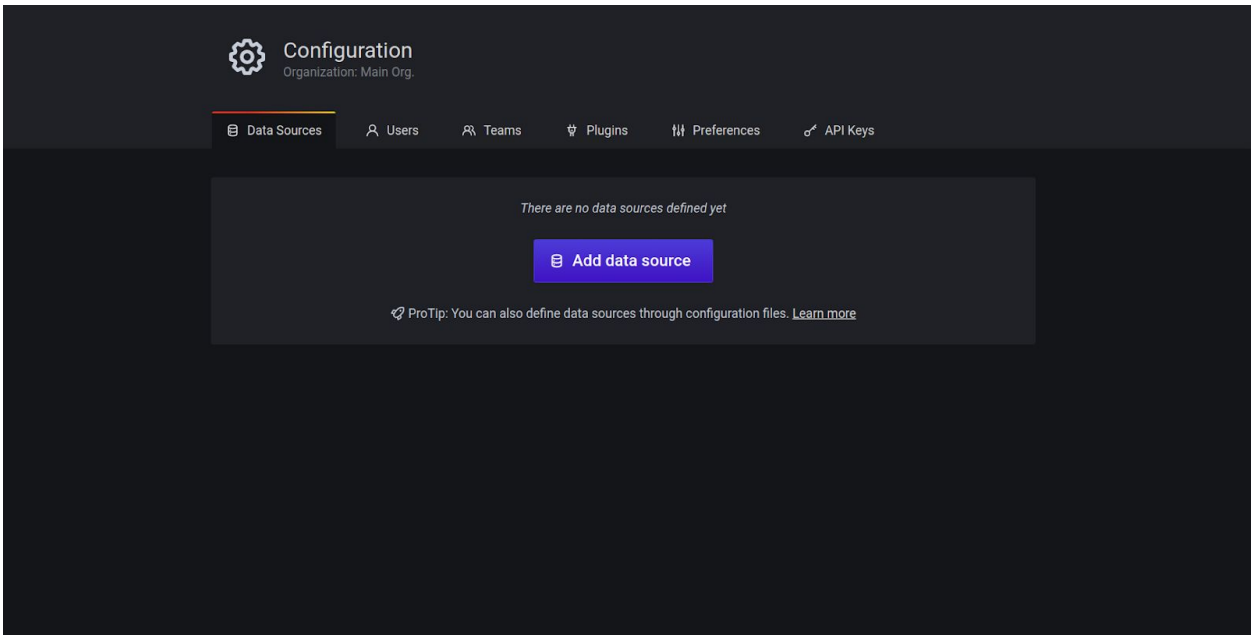
4. Configurar integração do Grafana e Zabbix
    a. Acessar painel do Grafana. (http://18.204.37.175:3000/”) (Usuario: admin / Senha: admin)



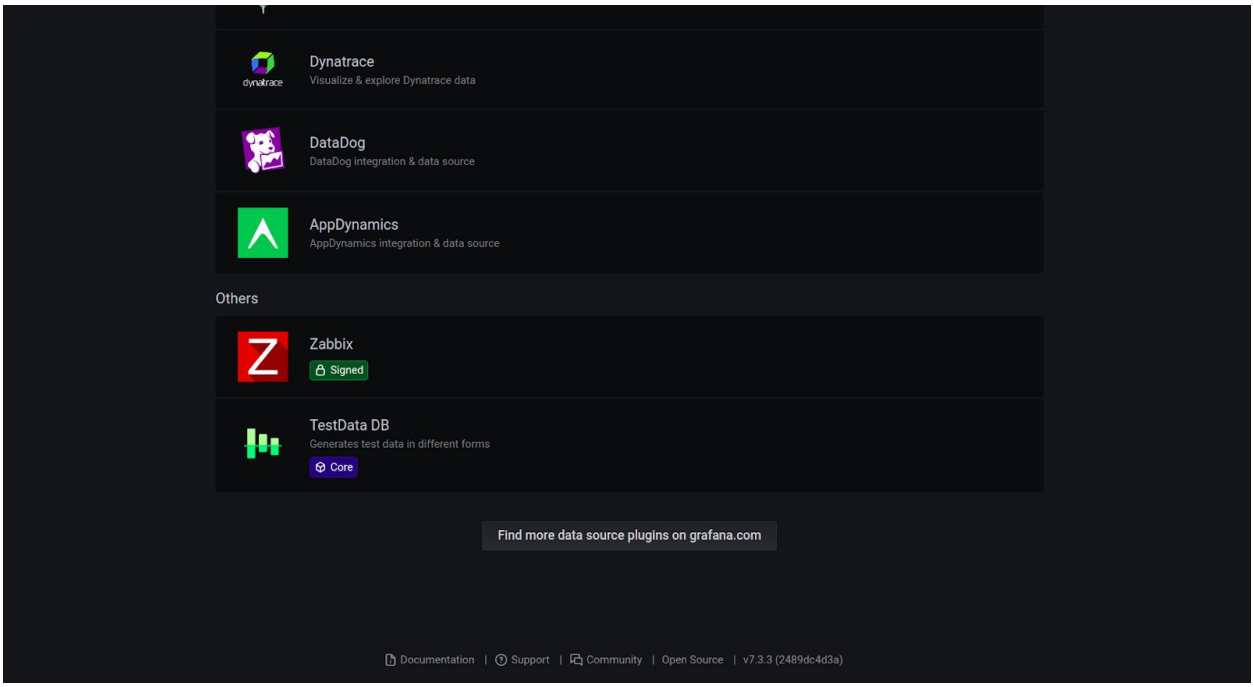
b. Habilitar plugin do Zabbix. **(Configuration/Plugins)**



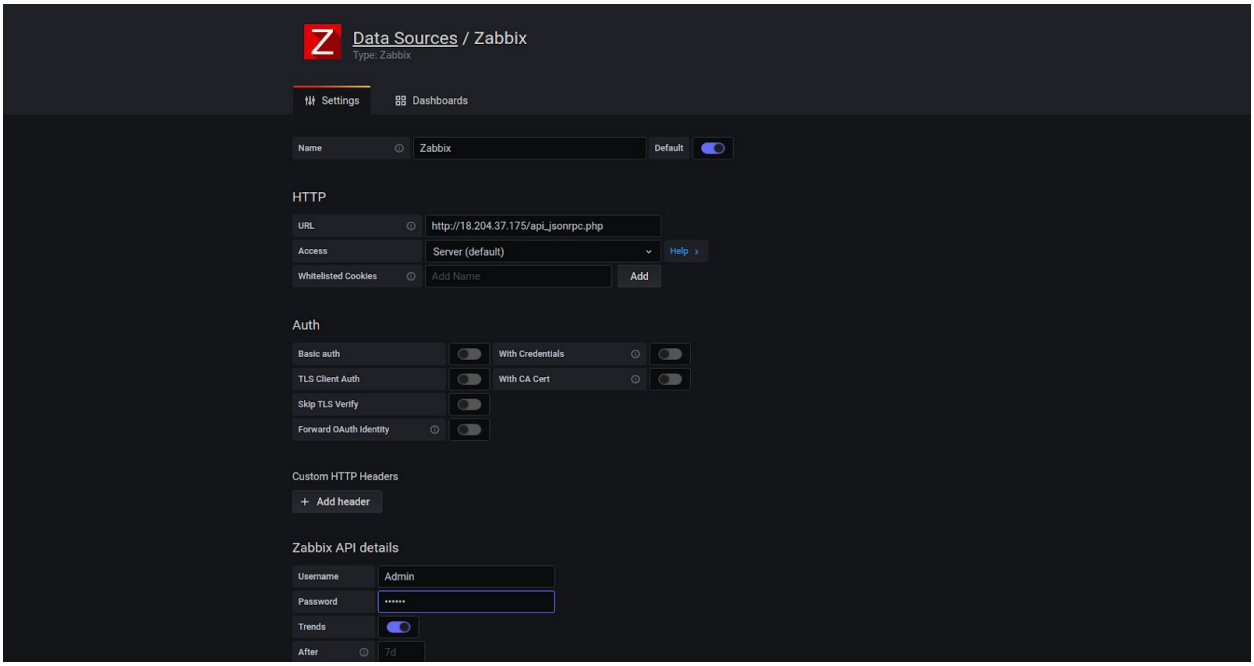
c. Configurar Data Source. **(Configuration/Data Sources/Add data source)**

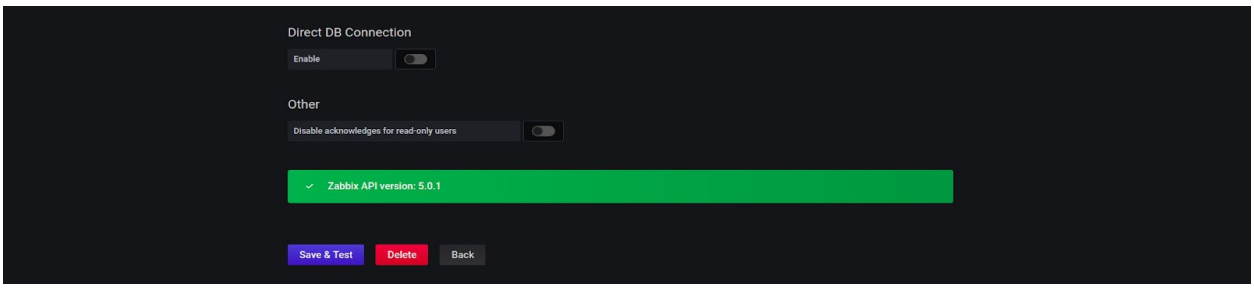


d. Selecionar o data source “Zabbix”

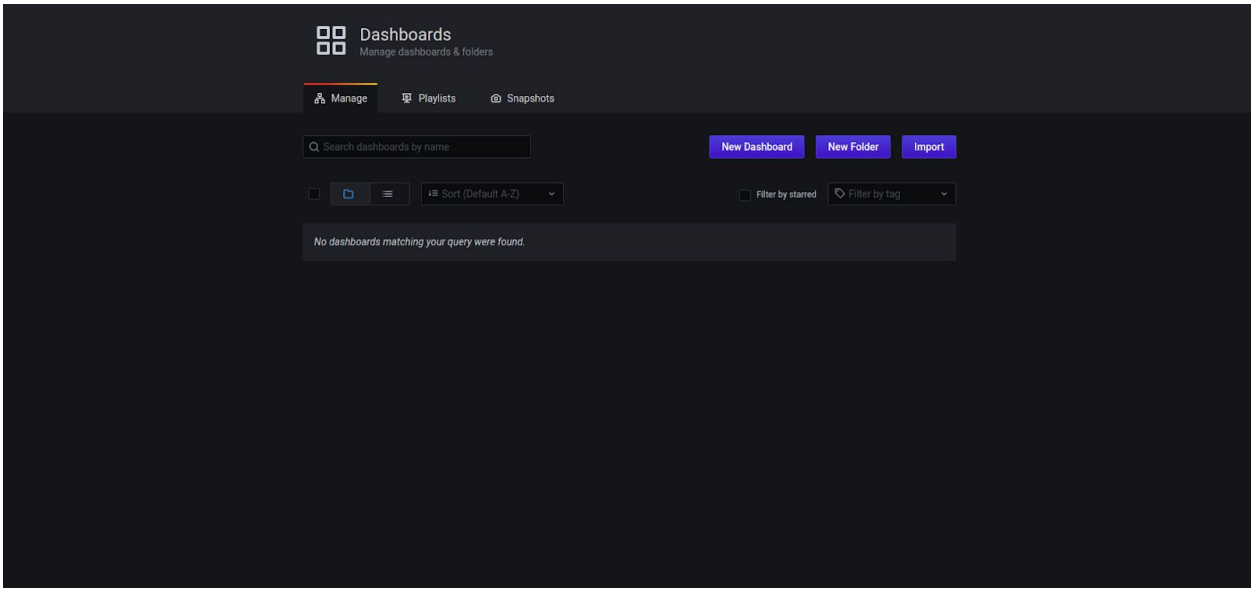


e. Preencher as informações e clicar em “save e test”

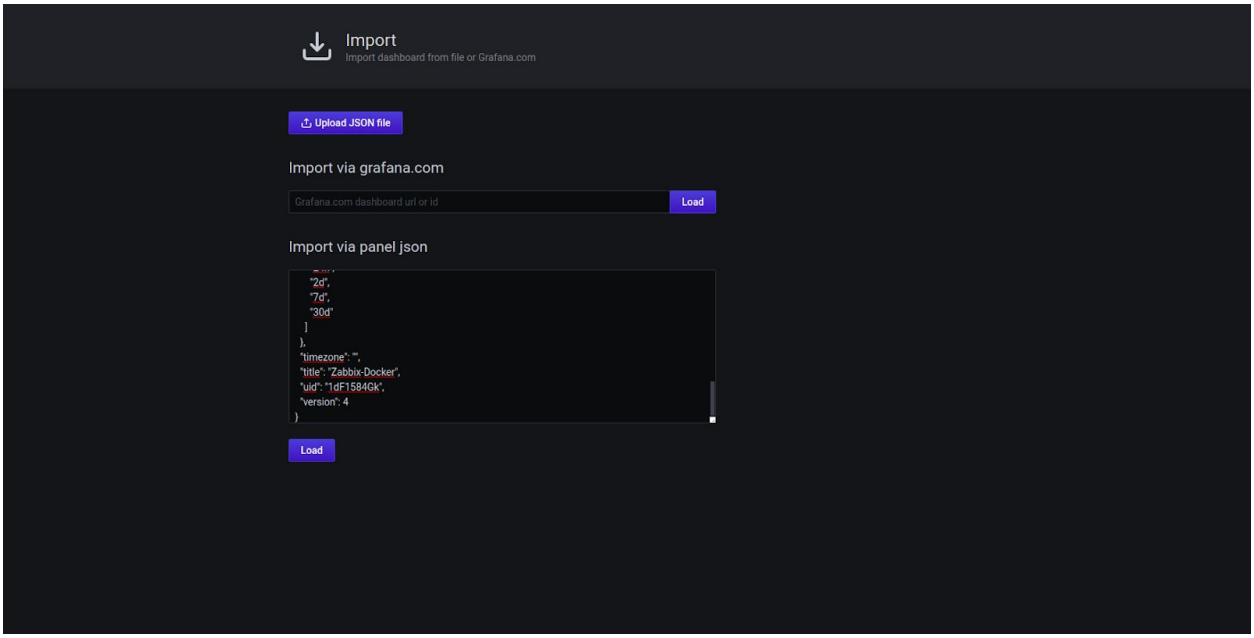




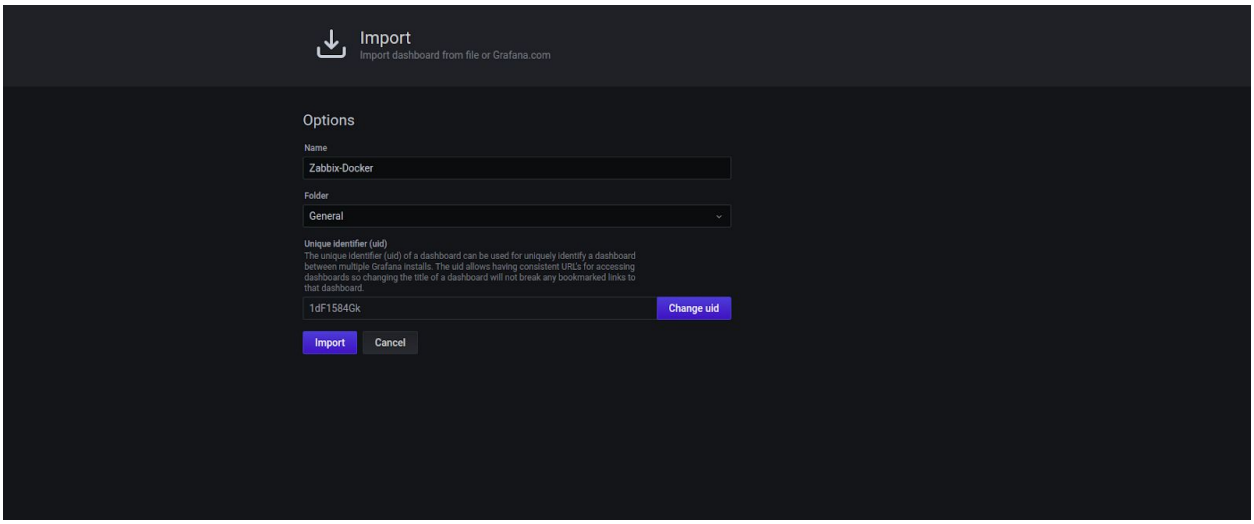
f. Acessar (Dashbord / Manage / Import)



g. Colar o conteudo 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”



i. Em seguida vai abrir a tela do Dashboard