

Objetivo

Visualizar en tiempo real las métricas recolectadas por Prometheus mediante **dashboards interactivos** en **Grafana**.

Desplegar Grafana con Docker Compose

Añadimos el servicio de Grafana al `docker-compose.yml`:

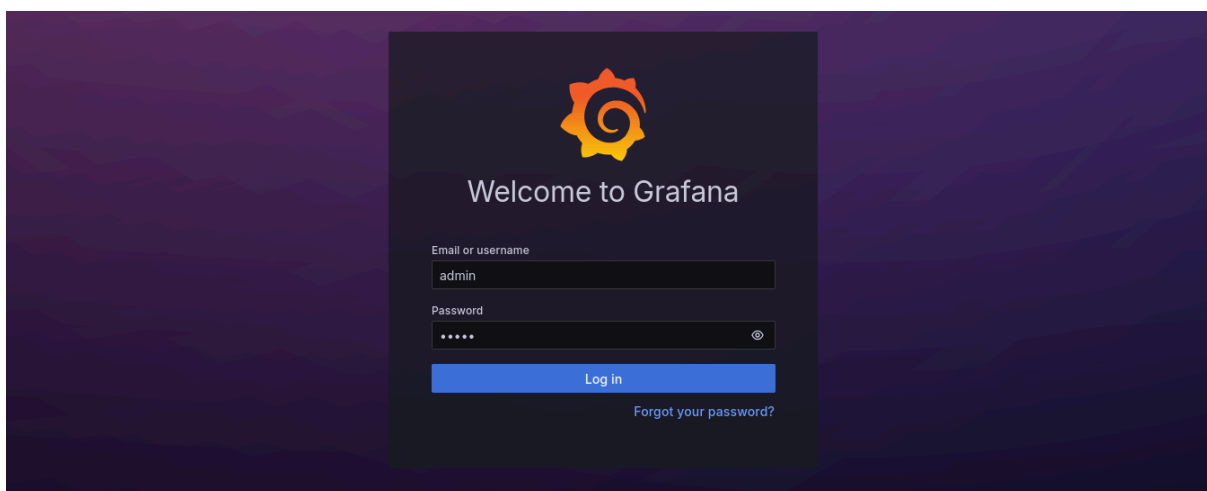
```
docker-compose.yml x
daniel > Sprint1 > Prometheus > docker-compose.yml > version
docker-compose.yml - The Compose specification establishes a standard for the definition of multi-container platform-agnostic applications (compose-spec.json)
1  version: "3"
2
3  >Run All Services
4  services:
5    >Run Service
6    prometheus:
7      image: prom/prometheus:latest
8      ports:
9        - "9090:9090"
10     volumes:
11       - ./prometheus.yml:/etc/prometheus/prometheus.yml
12       - prometheus_data:/prometheus
13
14   >Run Service
15   cadvisor:
16     image: gcr.io/cadvisor/cadvisor:latest
17     ports:
18       - "8081:8080"
19     volumes:
20       - /:/rootfs:ro
21       - /var/run:/var/run:ro
22       - /sys:/sys:ro
23       - /var/lib/docker:/var/lib/docker:ro
24
25   >Run Service
26   grafana:
27     image: grafana/grafana:latest
28     ports:
29       - "3000:3000"
30     volumes:
31       - grafana_data:/var/lib/grafana
32
33 volumes:
34   prometheus_data:
35   grafana_data:
```

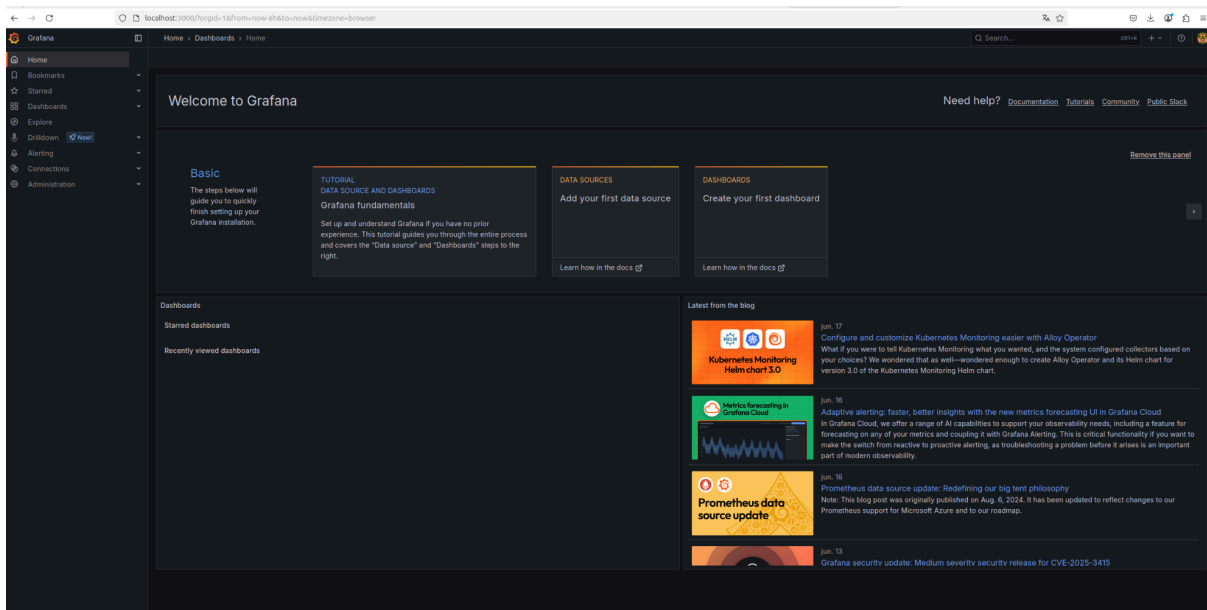
Ejecutamos docker compose up -d y comprobamos la lista de contenedores desplegados

```
root@daniel-MS-7E28:/home/daniel/Sprint1/Prometheus# docker compose up -d
WARN[0000] /home/daniel/Sprint1/Prometheus/docker-compose.yml: the attribute 'version' is obsolete, it will be ignored, please remove it to avoid potential confusion
[+] Running 11/11
  ✓ grafana Pulled
  ✓ f18232174bc9 Pull complete
  ✓ 9183b65e90ee Pull complete
  ✓ 3f8d5c908dcc Pull complete
  ✓ 30bb92ff0608 Pull complete
  ✓ 807a2e881ecd Pull complete
  ✓ 4a4d0948b0bf Pull complete
  ✓ 04f6155c873d Pull complete
  ✓ 85dde7dceb9a Pull complete
  ✓ 7609d50b1b77 Pull complete
  ✓ 530deb90e89c Pull complete
[+] Running 5/6
  ✓ Volume "prometheus_grafana_data" Created
  ✓ Container cadvisor Recreated
  ✓ Container prometheus Recreated
  ✓ Container prometheus-grafana-1 Started
  ✓ Container prometheus-cadvisor-1 Starting
  ✓ Container prometheus-prometheus-1 Started
Error response from daemon: error while creating mount source path '/var/lib/docker': mkdir /var/lib/docker: read-only file system
root@daniel-MS-7E28:/home/daniel/Sprint1/Prometheus# docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS                               NAMES
36b767d72aa6   prom/prometheus:latest              "/bin/prometheus --c..." 10 seconds ago Up 8 seconds  0.0.0.0:9090->9090/tcp, [::]:9090->9090/tcp prometheus-prometheus-1
fdf19a2392bc   grafana/grafana:latest              "/run.sh"                10 seconds ago Up 8 seconds  0.0.0.0:3000->3000/tcp, [::]:3000->3000/tcp prometheus-grafana-1
ca5627eac952   nginx:latest                        "/docker-entrypoint..." 47 hours ago   Up 3 hours    0.0.0.0:8080->80/tcp, [::]:8080->80/tcp nginx
17c1a3378eac   phpmyadmin/phpmyadmin               "/docker-entrypoint..." 47 hours ago   Up 3 hours    0.0.0.0:8081->80/tcp, [::]:8081->80/tcp phpmyadmin
5c572d139bc4   dockercompose_php                  "docker-php-entrypoi..." 47 hours ago   Up 3 hours    9000/tcp php
056ffa7bb286   mysql:5.7                           "docker-entrypoint.s..." 47 hours ago   Up 3 hours    3306/tcp, 33060/tcp mysql
```

Acceder a la interfaz gráfica de Grafana

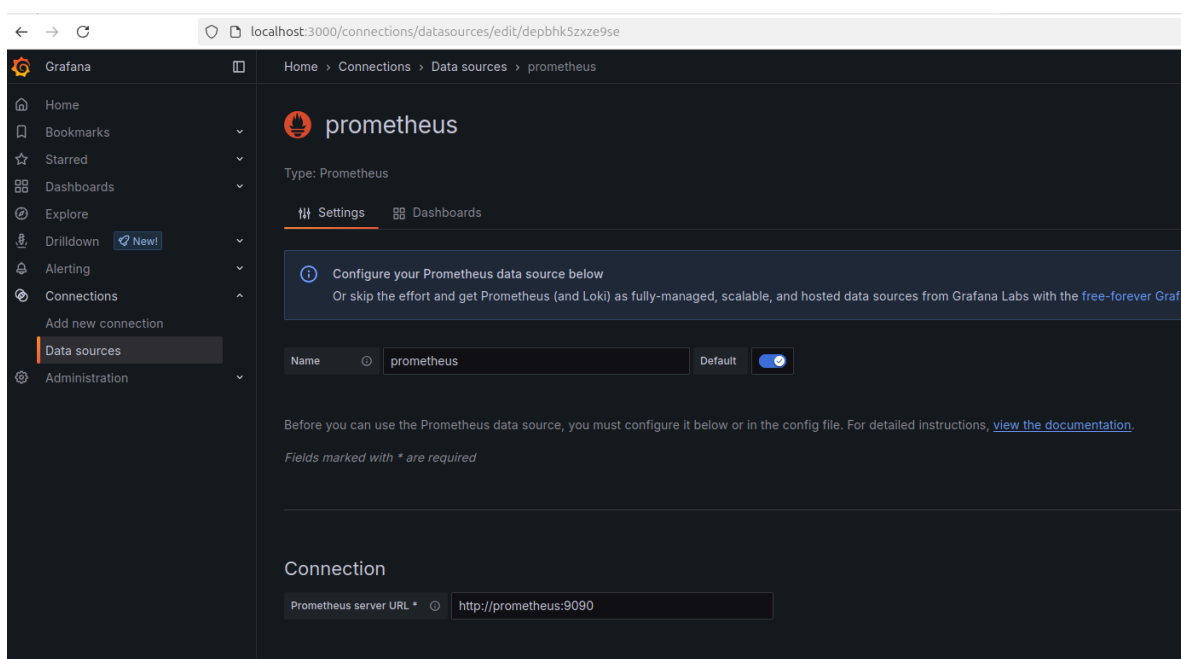
Accedemos a la interfaz gráfica de Grafana mediante <http://localhost:3000> y entramos con las credenciales por defecto (usuario: admin, contraseña: admin)





Añadir Prometheus como fuente de datos

- Vamos al menú lateral → **Connections** → **Data sources** → **Add data source**.
- Seleccionamos **Prometheus**.
- En el campo **URL**, escribemos: <http://prometheus:9090>
- Hacemos clic en **Save & Test** para confirmar que Grafana puede conectarse a Prometheus.



Crear un dashboard

Habría dos formas de hacerlo. Podemos crear un nuevo dashboard e indicarle las métricas que nos interesen, o importar un dashboard ya preestablecido.

En este caso nos inclinaremos por la segunda opción y buscaremos un dashboard en <https://grafana.com/grafana/dashboards>

Usaremos el dashboard 193. Este dashboard recopila informacion de los siguientes parametros:

- **Uso de CPU**
- **Consumo de memoria**
- **Tráfico de red**

localhost:3000/dashboard/import

Grafana

Home > Dashboards > Import dashboard

Import dashboard

Import dashboard from file or Grafana.com

Importing dashboard from [Grafana.com](#)

Published by	phillicious
Updated on	2017-02-17 16:06:00

Options

Name

Docker monitoring

Folder

Dashboards

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.

Change uid

prometheus

prometheus

Import Cancel

