

# Gráficas con influxdb y grafana

Usaremos influxdb como base de datos y grafana para hacer las gráficas

INVESTIGAR: Tenemos que crear el directorio var\_grafana con permisos que pueda escribir el usuario con id 472. Por ejemplo con permisos 777

docker-compose.yml

```
version: '2'
services:
  influxdb:
    image: "influxdb"
    container_name: "influxdb"
    volumes:
      - ./var_influxdb:/var/lib/influxdb
#      - ./influxdb.conf:/etc/influxdb/influxdb.conf:ro
    restart: always
    environment:
      - INFLUXDB_DB=grafanaFlux
      - INFLUXDB_ADMIN_ENABLED=true
      - INFLUXDB_ADMIN_USER=admin
      - INFLUXDB_ADMIN_PASSWORD=gr4f4n4
      - INFLUXDB_USER=grafanaflux
      - INFLUXDB_USER_PASSWORD=gr4f4n4
    ports:
      - 8086:8086
  grafana:
    image: "grafana/grafana"
    container_name: "grafana"
#    user: "472"
    links:
      - "influxdb:influxdb"
    volumes:
      - ./var_grafana:/var/lib/grafana
#      - ./ldap.toml:/etc/grafana/ldap.toml
    environment:
      - GF_SECURITY_ADMIN_PASSWORD=secret
#      - GF_AUTH_LDAP_ENABLED=true
#      - GF_AUTH_LDAP_CONFIG_FILE=/etc/grafana/ldap.toml
      - GF_SERVER_PROTOCOL=http
    ports:
      - 3000:3000
    restart: always
```

Desde el directorio que tenemos el fichero docker-compose.yml lanzamos el comando:

docker-compose up -d

Esto nos levanta un docker con la BBDD de influxdb y otro con grafana:

IMAGE	COMMAND	PORTS	NAMES
grafana/grafana	"/run.sh"	0.0.0.0:3000->3000/tcp	grafana
influxdb	"/entrypoint.sh infl..."	0.0.0.0:8086->8086/tcp	influxdb

Creamos una base de datos:

```
curl -i -XPOST http://172.17.0.1:8086/query --data-urlencode "q=CREATE DATABASE borra"
```

Insertamos un dato:

```
curl -i -XPOST 'http://172.17.0.1:8086/write?db=borra' --data-binary 'ENCHUFE,id=1 value=1000'
```

Consultamos el dato

```
curl -G 'http://172.17.0.1:8086/query?db=borra' --data-urlencode 'q=SELECT * FROM "ENCHUFE"'
```

Metemos datos:

```
curl -i -XPOST 'http://172.17.0.1:8086/write?db=borra' --data-binary @data.txt
```

El fichero data.txt tiene este formato, el último número es el timestamp con 9 ceros mas.

data.txt

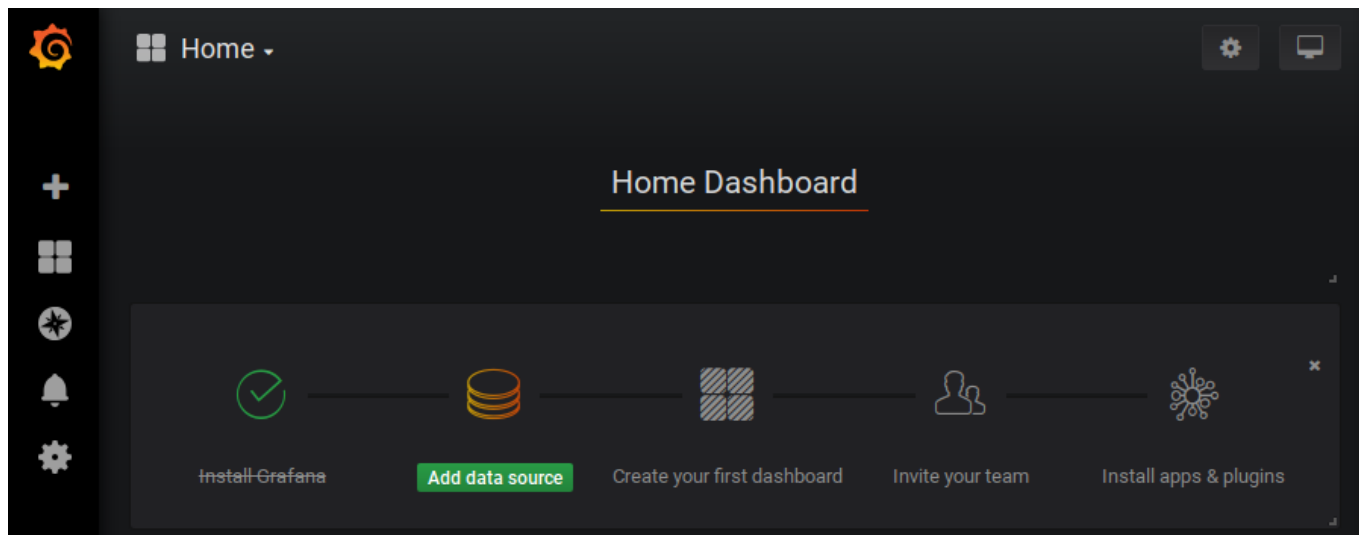
```
consumo,service=cec,environment=dev,type=real value=2 1548979200000000000
consumo,service=cec,environment=dev,type=real value=4 1549065600000000000
consumo,service=cec,environment=dev,type=real value=9 1549152000000000000
consumo,service=cec,environment=dev,type=real value=15 1549238400000000000
```

Vamos a Grafana:

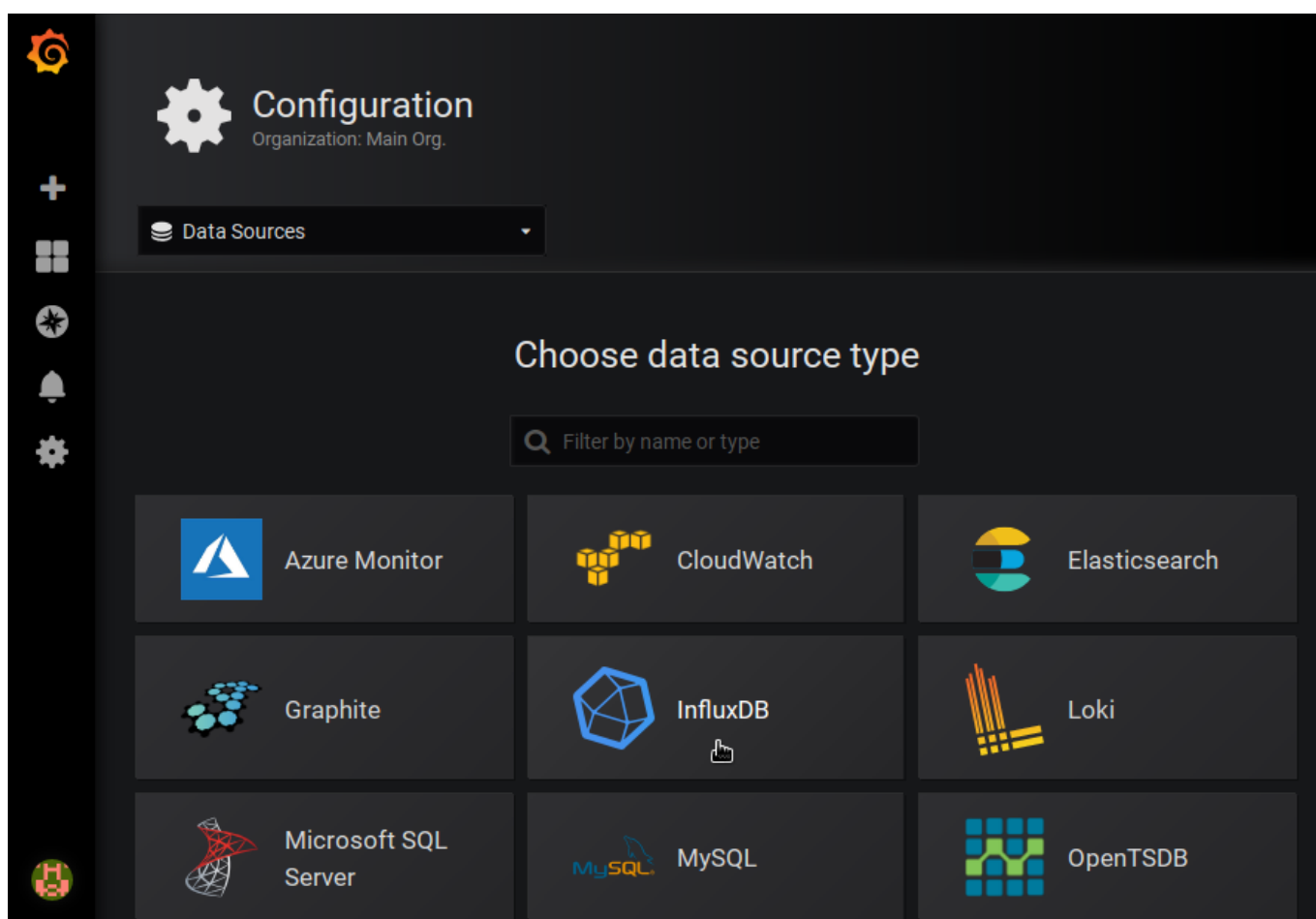
<http://172.17.0.1:3000/login>

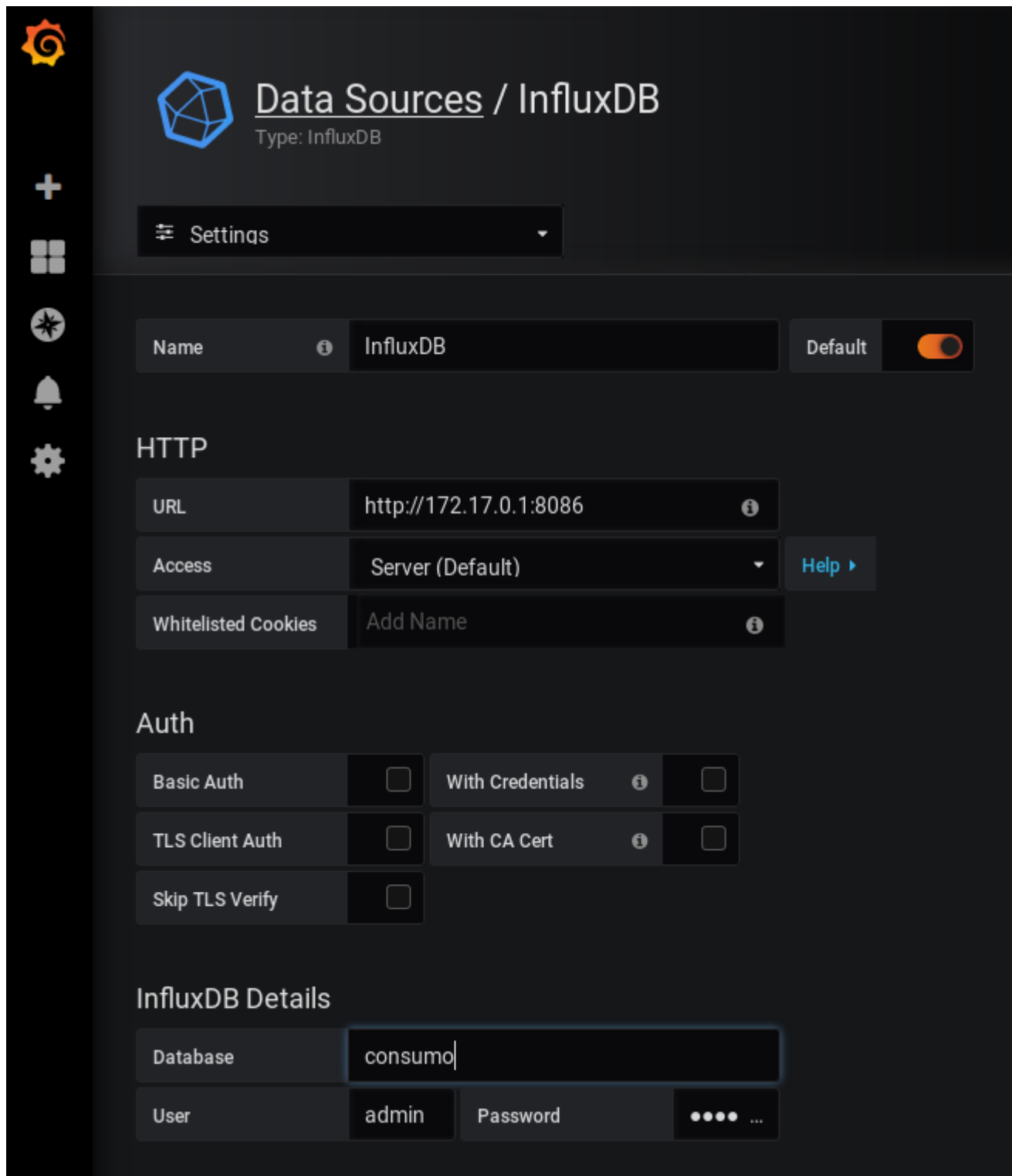
admin/secret (viene en el docker-compose)

Pulsamos add data source



SeleccionamosInfluxDB:





The screenshot shows the Grafana web interface for configuring an InfluxDB data source. The left sidebar contains navigation icons: a gear for settings, a plus sign for adding new elements, a square icon for dashboards, a compass for favorites, a bell for notifications, and a gear for user settings. The main content area is titled 'Data Sources / InfluxDB' with a subtitle 'Type: InfluxDB'. Below the title is a 'Settings' dropdown menu. The 'Name' field is set to 'InfluxDB' and is marked as the 'Default' source with a toggle switch. The 'HTTP' section contains three fields: 'URL' set to 'http://172.17.0.1:8086', 'Access' set to 'Server (Default)' with a 'Help' link, and 'Whitelisted Cookies' with an 'Add Name' button. The 'Auth' section has three rows of checkboxes: 'Basic Auth' (unchecked), 'With Credentials' (unchecked), 'TLS Client Auth' (unchecked), 'With CA Cert' (unchecked), and 'Skip TLS Verify' (unchecked). The 'InfluxDB Details' section has three fields: 'Database' set to 'consumo', 'User' set to 'admin', and 'Password' (masked with dots and a toggle icon).

**Data Sources / InfluxDB**  
Type: InfluxDB

Settings

Name *i* InfluxDB Default ☒

**HTTP**

URL *i* http://172.17.0.1:8086

Access Server (Default) *i* Help ▶

Whitelisted Cookies Add Name *i*

**Auth**

Basic Auth ☐ With Credentials *i* ☐

TLS Client Auth ☐ With CA Cert *i* ☐

Skip TLS Verify ☐

**InfluxDB Details**

Database consumo

User admin Password

## Crear Dashboard Gráfica

Vamos al icono de + y create Dashboard y Add query

## Dashboard público

```
/etc/grafana/grafana.ini
```

```
##### Anonymous Auth #####  
[auth.anonymous]  
# enable anonymous access  
enabled = true  
  
# specify organization name that should be used for unauthenticated users  
org_name = Main Org.  
  
# specify role for unauthenticated users  
org_role = Viewer  
# mask the Grafana version number for unauthenticated users  
;hide_version = false
```

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