

Instalación Grafana + Prometheus

Instalación de Grafana

Agregar la clave GPG de Grafana para verificar que estamos descargando los paquetes de fuentes oficiales.

```
wget -q -O - https://packages.grafana.com/gpg.key | sudo apt-key add -
```

```
sergio@sergio-VirtualBox:~$ wget -q -O - https://packages.grafana.com/gpg.key | sudo apt-key add -  
OK
```

Añadir los repositorios de Grafana e instalarlo:

```
echo "deb https://packages.grafana.com/oss/deb stable main" | sudo tee  
/etc/apt/sources.list.d/grafana.list
```

```
sudo apt update
```

```
sudo apt install grafana
```

```
sergio@sergio-VirtualBox:~$ echo "deb https://packages.grafana.com/oss/deb stable main" | sudo tee /etc/apt/sources.list.d/grafana.list  
deb https://packages.grafana.com/oss/deb stable main
```

```
sergio@sergio-VirtualBox:~$ sudo apt update  
Obj:1 http://security.ubuntu.com/ubuntu bionic-security InRelease
```

```
sergio@sergio-VirtualBox:~$ sudo apt install grafana  
Leyendo lista de paquetes... Hecho
```

Iniciar y habilitar el servicio de Grafana:

```
sudo systemctl start grafana-server
```

```
sudo systemctl enable grafana-server
```

```
sergio@sergio-VirtualBox:~$ sudo systemctl enable grafana-server  
Synchronizing state of grafana-server.service with SysV service script with /lib/systemd/systemd-sysv-install.  
Executing: /lib/systemd/systemd-sysv-install enable grafana-server  
Created symlink /etc/systemd/system/multi-user.target.wants/grafana-server.service → /usr/lib/systemd/system/grafana-server.service.
```

Instalar Prometheus y Node Exporter

```
sudo apt install prometheus prometheus-node-exporter
```

```
sergio@sergio-VirtualBox:~$ sudo apt install prometheus prometheus-node-exporter  
Leyendo lista de paquetes... Hecho  
Creando árbol de dependencias  
Leyendo la información de estado... Hecho
```

Verificar si están funcionando los servicios de Prometheus

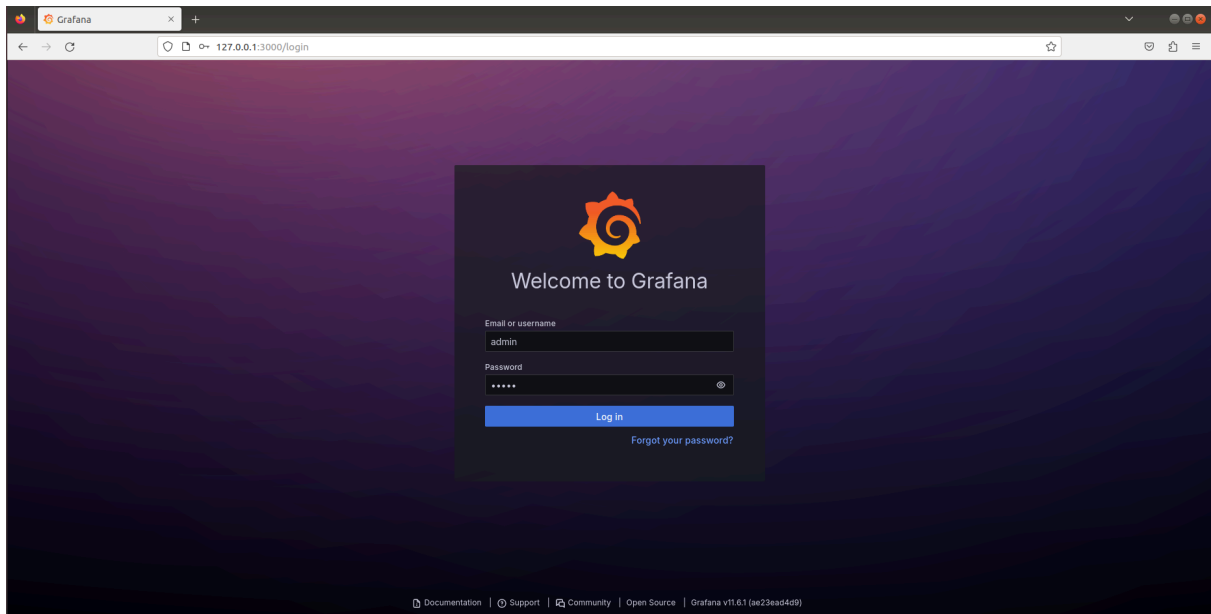
```
sudo systemctl status prometheus
```

```
sudo systemctl status prometheus-node-exporter
```

```
sergio@sergio-VirtualBox:~$ sudo systemctl status prometheus  
● prometheus.service - Monitoring system and time series database  
   Loaded: loaded (/lib/systemd/system/prometheus.service; enabled; vendor preset: enabled)  
   Active: active (running) since Fri 2025-04-25 11:19:36 CEST; 33s ago  
     Docs: https://prometheus.io/docs/introduction/overview/  
    Main PID: 9227 (prometheus)  
      Tasks: 9 (limit: 4915)  
    CGroup: /system.slice/prometheus.service  
            └─9227 /usr/bin/prometheus
```

```
sergio@sergio-VirtualBox:~$ sudo systemctl status prometheus-node-exporter
● prometheus-node-exporter.service - Prometheus exporter for machine metrics
   Loaded: loaded (/lib/systemd/system/prometheus-node-exporter.service; enabled; vendor preset: enabled)
   Active: active (running) since Fri 2025-04-25 11:19:35 CEST; 1min 0s ago
     Docs: https://github.com/prometheus/node_exporter
   Main PID: 9135 (prometheus-node)
    Tasks: 6 (limit: 4915)
   CGroup: /system.slice/prometheus-node-exporter.service
           └─9135 /usr/bin/prometheus-node-exporter --collector.diskstats.ignored-devices=^(ram|loop|fd|(h
```

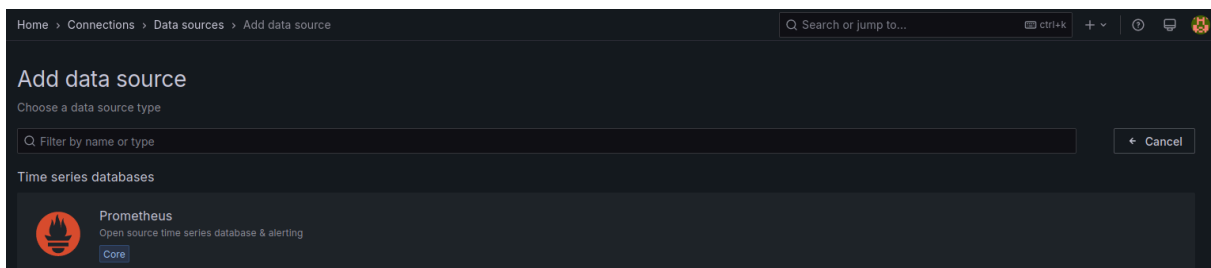
Acceder a Grafana



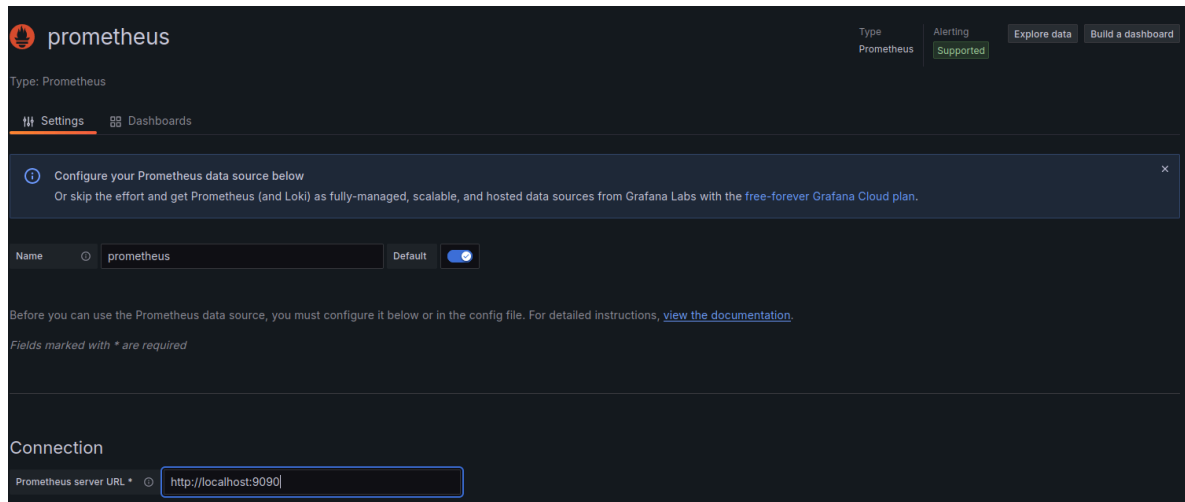
Configurar Prometheus como fuente de datos en Grafana

En la interfaz de Grafana, ir a:

Configuration > Data Sources > Add data source



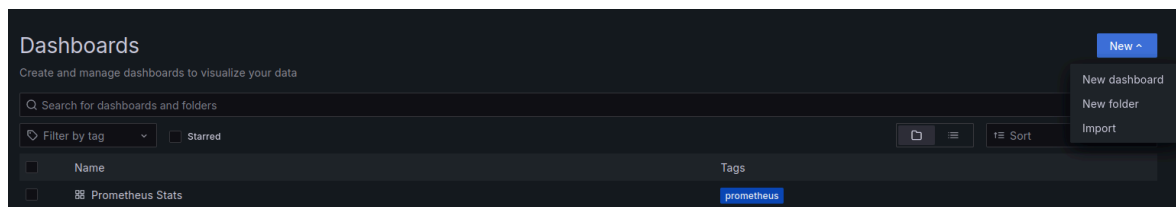
Seleccionar prometheus



The screenshot shows the Prometheus configuration interface in Grafana. At the top, there's a header with the Prometheus logo and navigation links: 'Type: Prometheus', 'Alerting: Supported', 'Explore data', and 'Build a dashboard'. Below the header, there are tabs for 'Settings' and 'Dashboards'. A message box states: 'Configure your Prometheus data source below. Or skip the effort and get Prometheus (and Loki) as fully-managed, scalable, and hosted data sources from Grafana Labs with the free-forever Grafana Cloud plan.' The 'Name' field is set to 'prometheus' and is marked as 'Default'. Below this, a note says: 'Before you can use the Prometheus data source, you must configure it below or in the config file. For detailed instructions, view the documentation. Fields marked with * are required.' The 'Connection' section shows the 'Prometheus server URL' set to 'http://localhost:9090'.

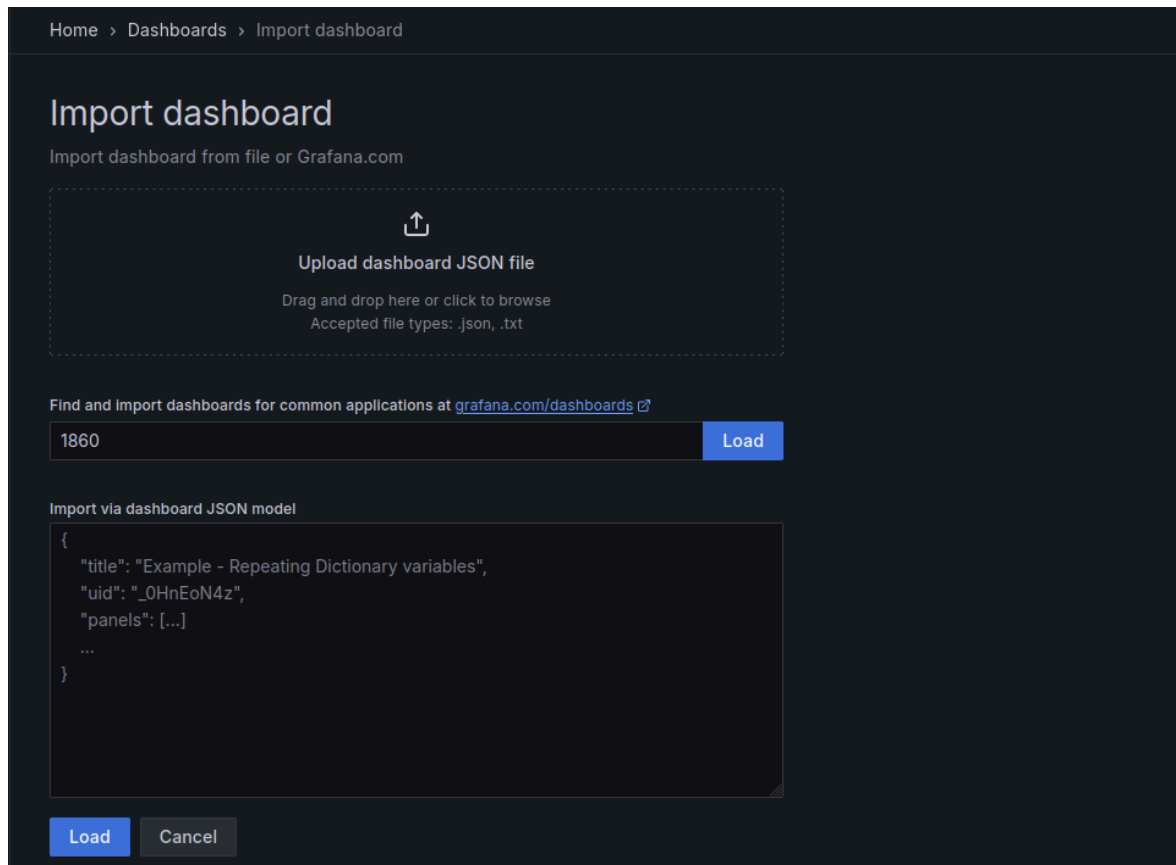
URL: <http://localhost:9090>

Importar un panel de monitoreo



The screenshot shows the 'Dashboards' page in Grafana. It has a header with 'Dashboards' and a sub-header 'Create and manage dashboards to visualize your data'. There's a search bar 'Search for dashboards and folders' and a 'Filter by tag' dropdown. A table lists dashboards with columns 'Name' and 'Tags'. One dashboard is listed: 'Prometheus Stats' with the tag 'prometheus'. On the right, there's a 'New' button with a dropdown menu containing 'New dashboard', 'New folder', and 'Import'.

Añadimos el id del dashboard que queremos importar y le damos a *Load*



The screenshot shows the 'Import dashboard' page in Grafana. It has a header 'Home > Dashboards > Import dashboard'. The main heading is 'Import dashboard' with a sub-heading 'Import dashboard from file or Grafana.com'. There's a dashed box with an upload icon and the text 'Upload dashboard JSON file. Drag and drop here or click to browse. Accepted file types: .json, .txt'. Below this, there's a link 'Find and import dashboards for common applications at grafana.com/dashboards'. A search bar contains the number '1860' and a 'Load' button. At the bottom, there's a section 'Import via dashboard JSON model' with a text area containing a JSON snippet:

```
{
  "title": "Example - Repeating Dictionary variables",
  "uid": "_0HnEoN4z",
  "panels": [...]
  ...
}
```

 At the bottom, there are 'Load' and 'Cancel' buttons.