Installation

Requirements

To run Grafana, you must have a supported operating system, hardware that meets or exceeds minimum requirements, a supported database, and a supported browser.

Supported Operating Systems

The following operating systems are supported for Grafana installation:

Debian / Ubuntu
RPM-based Linux (CentOS, Fedora, OpenSuse, RedHat)
macOS
Windows

> While you can install Grafana on other operating systems, we do not recommend doing so and do not provide support for that use case. Installation of Grafana on other operating systems is possible, but not supported.

Hardware Recommendations

Grafana does not use a lot of resources and is very lightweight in use of memory and CPU.

Minimum recommended memory: **255 MB**

Minimum recommended CPU: **1**

Some features might require more memory or CPUs. Features require more resources include:

1. Server side rendering of images
2. Alerting
3. Data source proxy

Supported databases

Grafana requires a database to store its configuration data, such as users, data sources, and dashboards. The exact requirements depend on the size of the Grafana installation and features used.

Grafana Supports the Following Databases:

SQLite
MySQL
PostgreSQL

By default, **Grafana installs with and uses SQLite**, which is an embedded database stored in the Grafana installation location.

Supported Web Browsers

Grafana is supported in the current version of the following browsers. Older versions of these browsers might not be supported, so you should always upgrade to the latest version when using Grafana.

Chrome/Chromium
Firefox
Safari
Microsoft Edge

Internet Explorer 11 is only fully supported in Grafana versions prior v6.0.

> Note: Always enable JavaScript in your browser. Running Grafana without JavaScript enabled in the browser is not supported.

Install on Windows

You can either download the Windows installer package or a standalone Windows binary file.

1. Navigate to Download Grafana

2. Select a Grafana version you want to install.

- The most recent Grafana version is selected by default.
- The **Version** field displays only finished releases. If you want to install a beta version, click **Nightly Builds** and then select a version.

3. Select an **Edition.**

- **Enterprise** - Recommended download. Functionally identical to the open source version, but includes features you can unlock with a license if you so choose.
- **Open Source** - Functionally identical to the enterprise version, but you will need to download the enterprise version if you want enterprise features.

4. Click Windows.

You can either use the Windows installer or you can install a standalone Windows binary.

Install with Windows installer (recommended)

1. Click **Download the installer.**
2. Open and run the installer.

To run Grafana, open your browser and go to the Grafana port (http://localhost:3000/ is default) and then follow the instructions in Getting Started.

Install standalone Windows binary

1. Click **Download the zip file. Important:** After you've downloaded the zip file and before extracting it, make sure to open the properties for that file (right-click **Properties**) and select the `unblock` checkbox and then click 'Ok'.

2. Extract this folder to anywhere you want Grafana to run from.

3. Start Grafana by executing 'grafana-server.exe', located in the 'bin' directory, preferably from the command line. If you want to run Grafana as a Windows service, then download NSSM . It is very easy to add Grafana as a Windows service using that tool.

To run Grafana, open your browser and go to the Grafana port (http://localhost:3000/ is default) and then follow the instructions in Getting Started.

Note: The default Grafana port is '3000'. This port might require extra permissions on Windows. If it does not appear in the default port, you can try changing to a different port.

1. Go into the 'conf' directory and copy 'sample.ini' to 'custom.ini'. **Note:** You should edit 'custom.ini', never 'defaults.ini'.
2. Edit 'custom.ini' and uncomment the 'http_port' configuration option (';' is the comment character in ini files) and change it to something like '8080' or similar. That port should not require extra Windows privileges.

Install on macOS

1. Download and install

Before you begin, you must have Homebrew installed.

1. On the Grafana download page, select the Grafana version you want to install.

The most recent Grafana version is selected by default.
The **Version** field displays only finished releases. If you want to install a beta version, click **Nightly Builds** and then select a version.

2. Select an **Edition.**

- Open Source - Functionally identical to the enterprise version, but you will need to download the enterprise version if you want enterprise features.
- Enterprise - Not currently available for Mac.

3. Click Mac.

4. Copy and paste the code from the installation page into your command line and run. It follows the pattern shown below.

```
brew update
brew 'install' grafana
```

2. Start Grafana

Start Grafana using Homebrew services:

```
brew services start grafana
```

Upgrade with Homebrew

To upgrade Grafana, use the reinstall command:

```
brew update
brew reinstall grafana
```

Run Grafana Docker Image

The easiest and least complex installation method is to run Grafana from within a Docker container. Docker is available for all major platforms and can be downloaded by visitinghttps://www.docker.com/.

After installing Docker, open a terminal window and type in the following command:

```
$ docker run -d --name=grafana -p 3000:3000 grafana/grafana
```

Docker will automatically download and run the latest version of Grafana for your computer's architecture. Bear in mind that since this basic container has no persistent storage, nothing will be retained if you delete the container. I suggest you run the container with a temporary volume so that Grafana's internal database will continue to exist, even if you destroy the container:

```
$ docker volume create grafana-storage



        $ docker run -d --name
        =

        grafana -p 3000:3000\



        -v grafana-storage:/var/lib/grafana \

        grafana/grafana
```

All the necessary dependencies will be automatically downloaded with the container. It will also install in its own sandbox, so you don't need to worry about installing a stack of software that will be difficult to delete later.
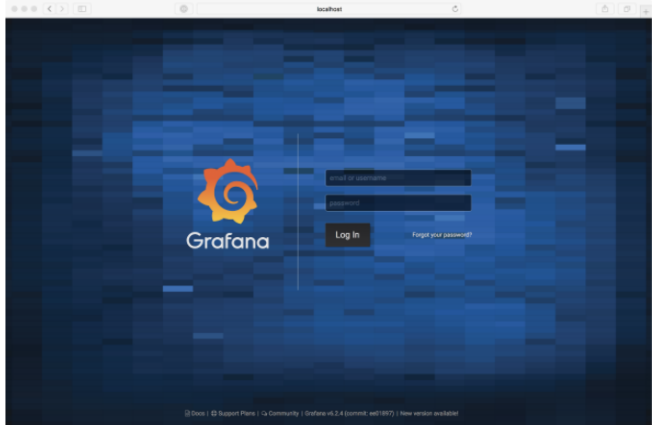
Hosted Grafana on the Cloud

If you would rather not install Grafana on your computer, or you don't have access to a computer that can run Grafana, there is another option—Grafana can host a free instance for you. There are restrictions—namely that in order to access a data source, you will need to upgrade a paid subscription.

To sign up for the hosted version, go to https://grafana.com/get and select the link under We Host It.

Connecting to the Grafana Server

Once you have installed and launched Grafana, open a browser page to access the Grafana application. It can be found at `http://localhost:3000`. If everything goes well, you should see a login page, as follows:

Log in with the `admin` username and the `admin` password. You will then be prompted to change it to something more secure. Once you have logged in, you should see the base Grafana interface: