

# How to install Grafana on Alma Linux

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Grafana is a free, open source monitoring and data visualization software. By default, it supports Graphite, Elasticsearch, Prometheus and other databases. This is a cross-platform interactive application that provides charts, graphs, and alerts on the web when connected to supported data sources. It is written in Go and TypeScript, supporting many operating systems such as Linux, Windows and macOS.

This article explains how to install Grafana on Alma Linux 8.

## Prerequisites

1. A server running Alma Linux 8.
2. A valid domain name pointing to your server IP.
3. The root password is configured on the server.

## Install Grafana on Alma Linux

By default, Grafana is not included in the default Alma Linux repository, so you will need to create the Grafana repository manually. You can create it with the following command:

```
nano /etc/yum.repos.d/grafana.repo
```

Add the following lines:

```
[grafana] name=grafana baseurl=https://packages.grafana.com/oss/rpm repo_gpgcheck=0
```

Save and close the file when you are done and install the Grafana server with the following command:

```
dnf install grafana -y
```

Once the Grafana server is installed, check the Grafana package information with the following command:

```
rpm -qi grafana
```

You will get the following output:

```
Name : grafana Version : 8.4.6 Release : 1 Architecture: x86_64 Install Date: Fr
```

Now, Grafana is installed on Alma Linux 8 and you can move on to the next step.

## Manage Grafana services

Service Grafana is managed by systemd. You can start the Grafana service with the following command and enable it to start when the system is restarted:

```
systemctl start grafana-server systemctl enable grafana-server
```

To check the status of Grafana, execute the following command:

```
systemctl status grafana-server
```

You will get the status of the Grafana service in the following output:

```
? grafana-server.service - Grafana instance Loaded: loaded (/usr/lib/systemd/systemd/)
```

At this point, Grafana is started and listening on port 3000. You can check this with the following command:

```
ss -antpl | grep 3000
```

You will get the Grafana listening port in the following output:

```
LISTEN 0 128 *:3000 *:* users:(("grafana-server",pid=12120,fd=9))
```

## Configure Nginx as a reverse proxy

Next, you need to install Nginx and configure it as a reverse proxy for Grafana. First, run the following command to install the Nginx server:

```
dnf install nginx -y
```

After Nginx is installed, create a configuration file for the Nginx virtual host:

```
nano /etc/nginx/conf.d/grafana.conf
```

Add the following lines:

```
server { server_name grafana.example.com; listen 80 ; access_log /var/log/nginx/
```

Save and close the file, check the Nginx configuration file with the following command:

```
nginx -t
```

If everything is fine, you will get the following output:

```
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok nginx: configur
```

Next, you need to reload the Nginx service for the configuration changes to be applied:

```
systemctl restart nginx
```

You can check the status of Nginx with the following command:

```
systemctl status nginx
```

You will see Nginx status in the following output:

```
? nginx.service - The nginx HTTP and reverse proxy server Loaded: loaded (/usr/l
```

Now, Nginx is installed and configured as a reverse proxy for Grafana. Now, you can proceed to the next step.

## Firewall configuration

Next, you need to allow HTTP through the firewall. You can enable it with the following command:

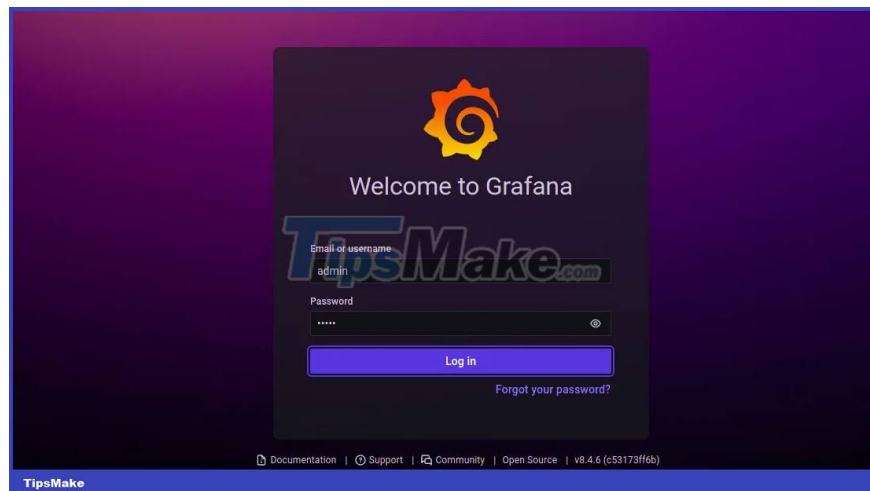
```
firewall-cmd --add-port=80/tcp --permanent
```

Next, you need to reload the firewall to apply the configuration changes:

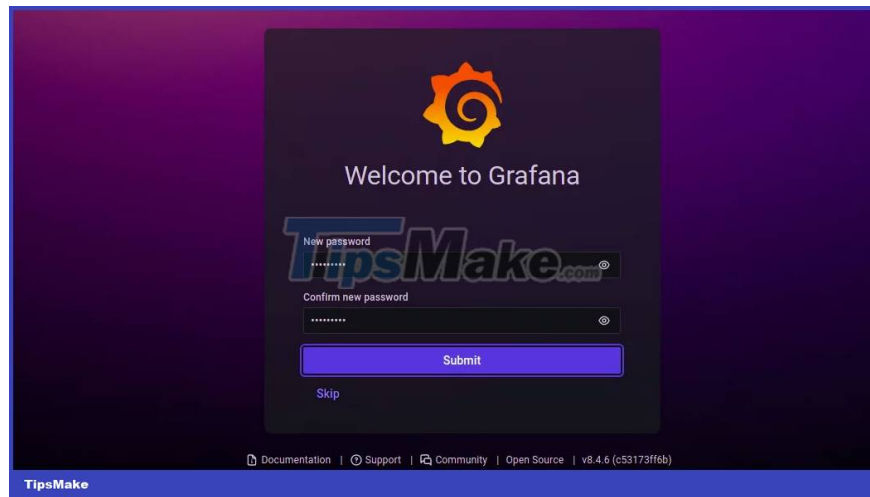
```
firewall-cmd --reload
```

## Access the Grafana dashboard

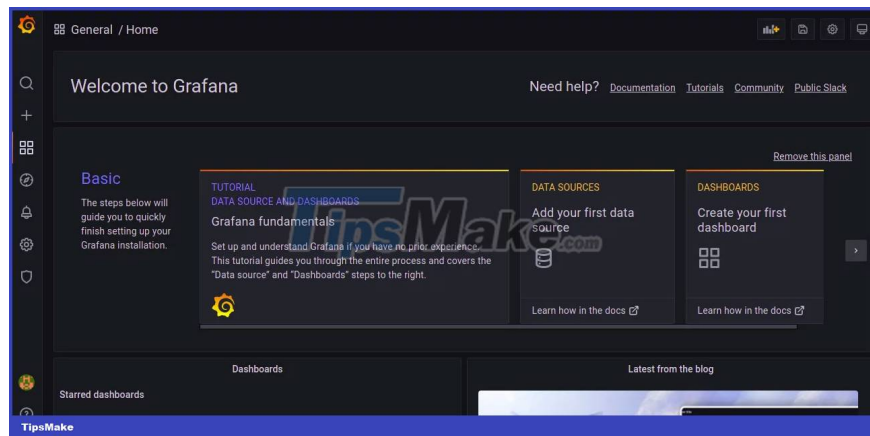
Now, open your web browser and access the Grafana dashboard via the URL *http://grafana.example.com*. You will see the Grafana login page:



Enter the default username **admin** and password **admin**, click the **Login** button. You will be prompted to set a new password (see below):



Enter the new admin password and click the **Submit** button . On the next page, you will see the Grafana dashboard:



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