

[How to Install Uptime Kuma Application on Ubuntu?](#)

written by sysadmin | 14 January 2026

The previous articles explained how to install the uptime kuma application on Docker, either [using the SQLite database](#) or [using the MariaDB database on Docker](#) or [using the MariaDB database on the host](#). This article will explain how to install the uptime kuma application without using Docker but using packages.

Problem

How to install uptime kuma application on Ubuntu?

Solution

Here are the steps to install uptime kuma application on Ubuntu:

1. Install the packages

Run the commands below to install the required packages:

```
sudo apt update -y  
sudo apt install nginx mariadb-server git -y
```

Then, install nodejs using the command below:

```
curl -fsSL https://deb.nodesource.com/setup_lts.x | sudo -E bash - && sudo  
apt install -y nodejs
```

After that, download the uptime kuma application by running the command below:

```
git clone https://github.com/louislam/uptime-kuma.git  
cd uptime-kuma/
```

Next, copy the commands below to install the uptime kuma application:

```
sudo npm run setup
sudo npm install pm2 -g
sudo pm2 install pm2-logrotate
sudo pm2 start server/server.js --name uptime-kuma
sudo pm2 startup
```

2. Configure MariaDB

Access MariaDB and run the queries below:

Akses ke MariaDB dan jalankan query-query di Bawah ini:

```
CREATE DATABASE uptime_kuma;
CREATE USER 'kuma-user'@'%' IDENTIFIED BY 'kumapass123';
GRANT ALL PRIVILEGES ON uptime_kuma.* TO 'kuma-user'@'%';
FLUSH PRIVILEGES;
\q
```

3. Configure web server

If you use Apache, create a file at **/etc/apache2/sites-available/kuma.conf** and copy the script below to the file:

```
<VirtualHost *:80>
ServerName yourdomain.com
DocumentRoot /var/www/html/

ProxyPass / http://localhost:3001/
RewriteEngine on
RewriteCond %{HTTP:Upgrade} websocket [NC]
RewriteCond %{HTTP:Connection} upgrade [NC]
RewriteRule ^/?(.*) "ws://localhost:3001/$1" [P,L]

ErrorLog ${APACHE_LOG_DIR}/error.log
CustomLog ${APACHE_LOG_DIR}/access.log combined

</VirtualHost>
```

then run the command below:

```
sudo a2enmod rewrite
```

```
sudo a2enmod proxy
sudo a2enmod proxy_http
sudo a2ensite kuma.conf
```

Check if there is an error in Apache and if there is no error, reload Apache using the command below:

```
apachectl -t
sudo systemctl reload apache2
```

INFO

If your server is running an nginx webserver, then in the file **/etc/nginx/conf.d/uptime-kuma.conf** insert the script below:

```
server {
    listen 80;
    server_name uptime-kuma.yourdomainname.com;

    location / {
        proxy_pass            http://localhost:3001;
        proxy_http_version 1.1;
        proxy_set_header      Upgrade $http_upgrade;
        proxy_set_header      Connection "upgrade";
        proxy_set_header      Host $host;
        proxy_set_header      X-Real-IP $remote_addr;
        proxy_set_header      X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_set_header      X-Forwarded-Proto $scheme;

        # Added WebSocket support
        proxy_set_header      Sec-WebSocket-Key $http_sec_websocket_key;
        proxy_set_header      Sec-WebSocket-Version $http_sec_websocket_version;
        proxy_set_header      Sec-WebSocket-Extensions
$http_sec_websocket_extensions;

        # Improve performance of this reverse proxy
        proxy_buffering      off;
    }

    # Redirect HTTP to HTTPS if needed for encryption
    # Uncomment the following lines if you have SSL enabled
    # return 301 https://$host$request_uri;
}
```

Use the command below to check if there is an error in the

nginx configuration and then reload nginx:

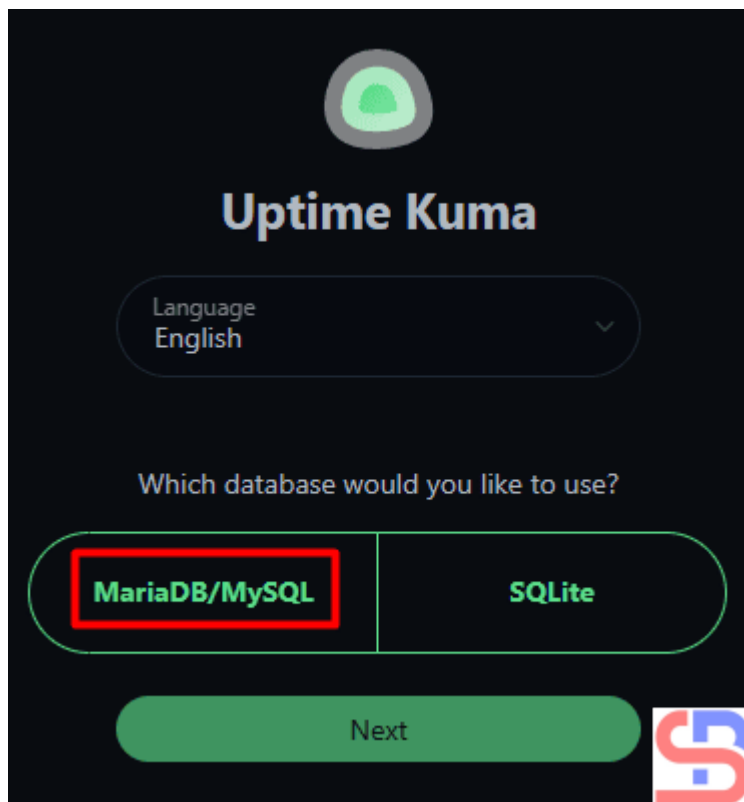
```
sudo nginx -t  
sudo systemctl reload nginx
```

4. Access uptime kuma

Open your browser, and type:

`http://ip_server:3001`

then there will be a display like below:



Click the MariaDB/MySQL button

Click **MariaDB/MySQL**, your screen will appear similar to the picture below:

Connect to an external MariaDB database.
You need to set the database connection information.

Hostname


Port
3306

Username

Password

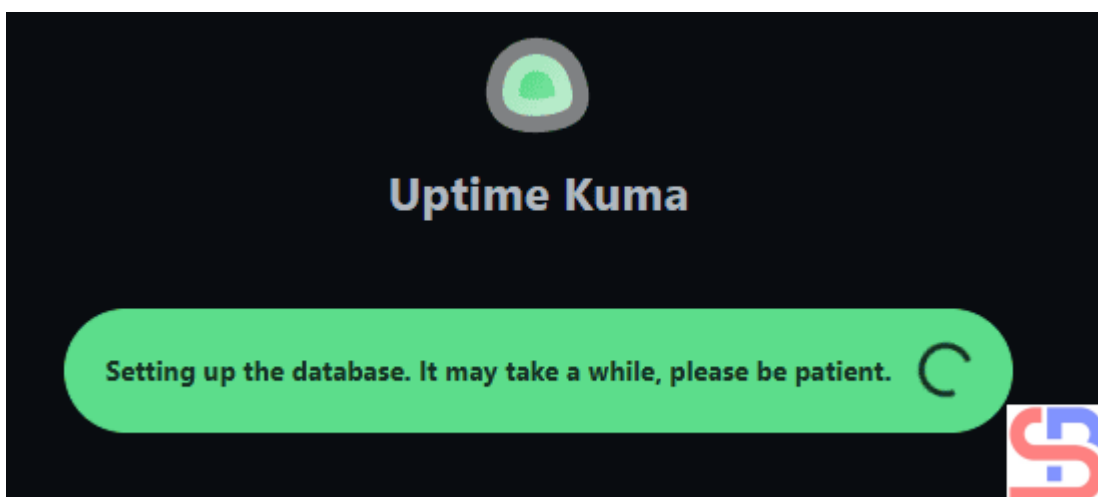
Database Name
kuma

Next



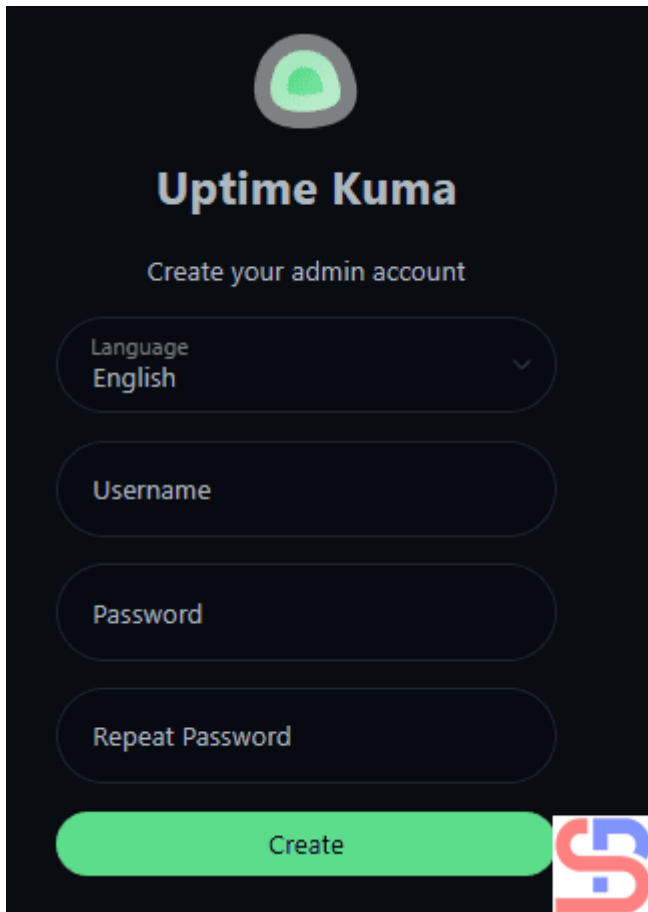
Fill in the columns for the database

Enter in the columns above the values that correspond to the query commands. Click the **Next** button, your screen will show up similar to the one below:



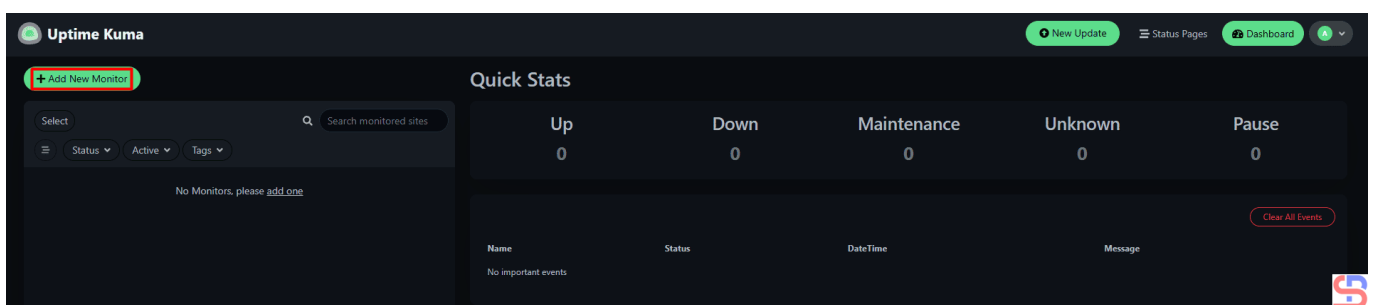
Setting up the database

You have to wait until finish, and after that, your screen will appear similar to the image shown below:



Fill in the columns for the admin account

Enter in the columns above the value you want and press the **Create** button then a display will appear similar to the image provided below:



Display of uptime kuma application

If you want to monitor the website, click the **Add New Monitor** button at the top left of the site , an image similar to the one shown will appear:

Add New Monitor

General

Monitor Type:

Friendly Name:

URL:

Heartbeat Interval (Check every 60 seconds): 1 minute

Retries: Maximum retries before the service is marked as down and a notification is sent

Heartbeat Retry Interval (Retry every 60 seconds):

Request Timeout (Timeout after 48 seconds):

Resend Notification if Down X times consecutively (Resend disabled):

Save

Notifications

Not available, please set up. **Set Up Notification**

Proxy

Not available, please set up. **Set Up Proxy**

HTTP Options

Method:

Body Encoding:

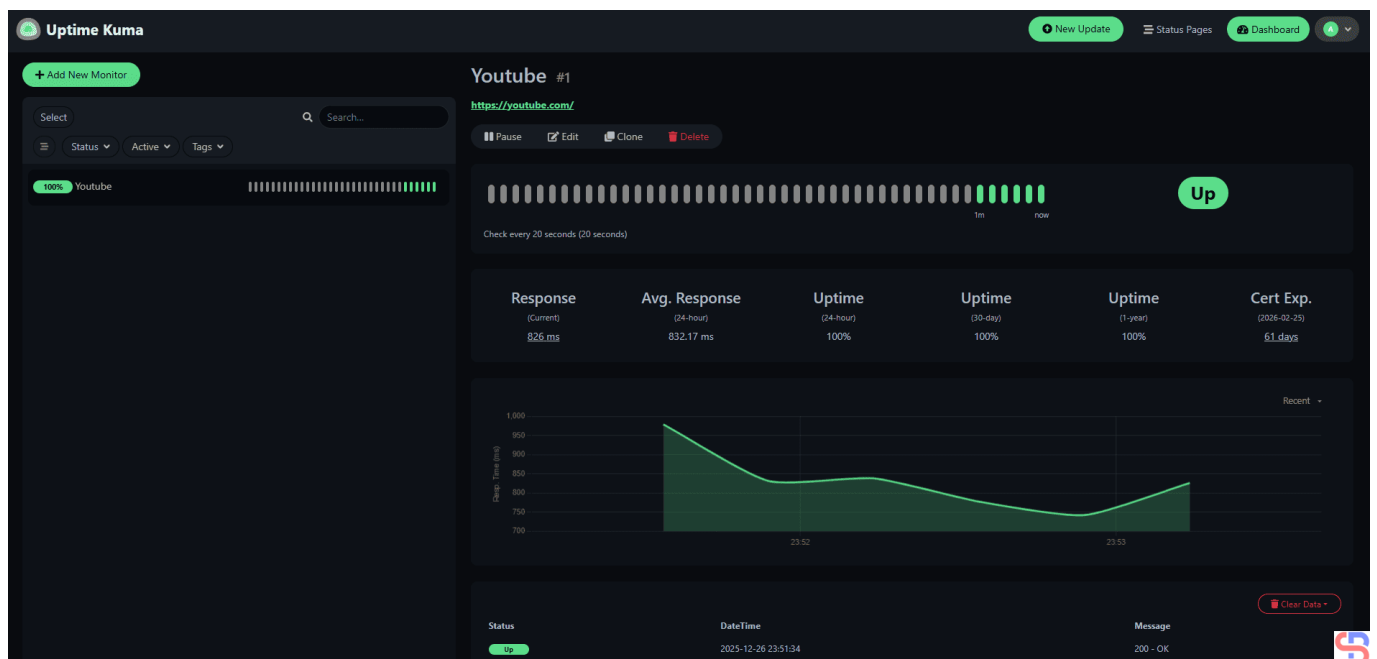
Body:

```
Example:
{
  "key": "value"
}
```

Headers:

Create a new host or a website to monitor in uptime kuma

Fill in the required fields (at least fill in the **Monitor Type**, **Friendly Name**, and **URL** columns) and press the **Save** button, then the host you have filled in will look like in the image below:



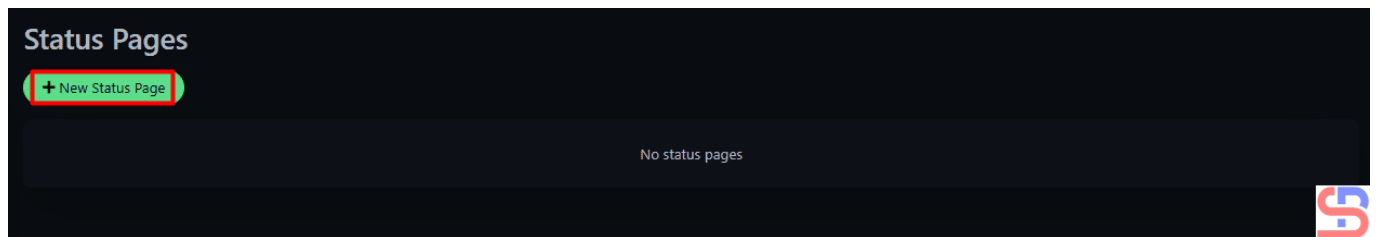
Monitor the host

If you just want to display the status without displaying many attributes then you can click the **Status Pages** button at the top right of the site like the image below:



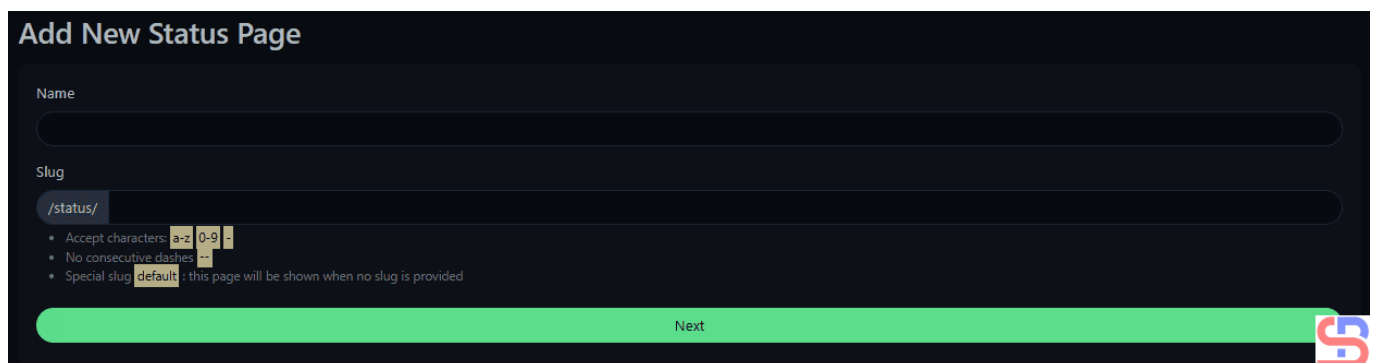
Click the Status Pages button

After you press the Status Pages button, the following image will appear:



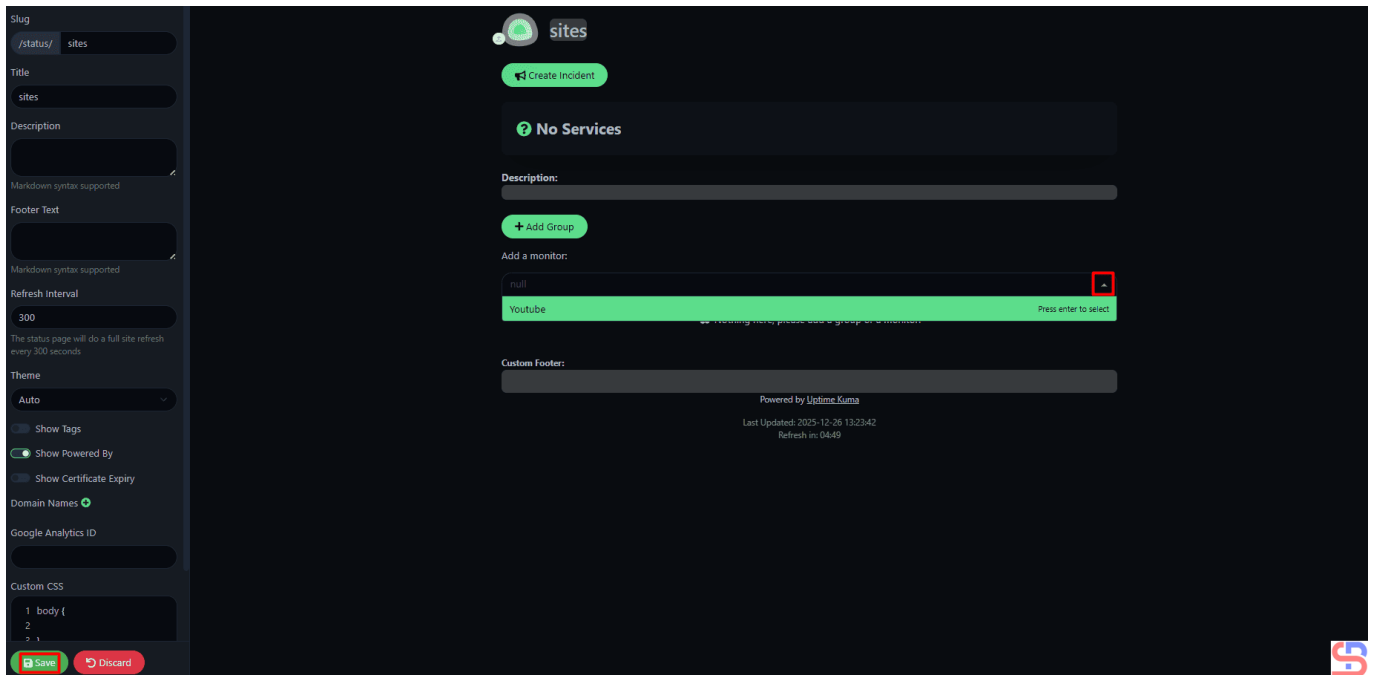
Create the Status Page page

Click the **New Status Page** button, and an image will appear similar to the one shown below:



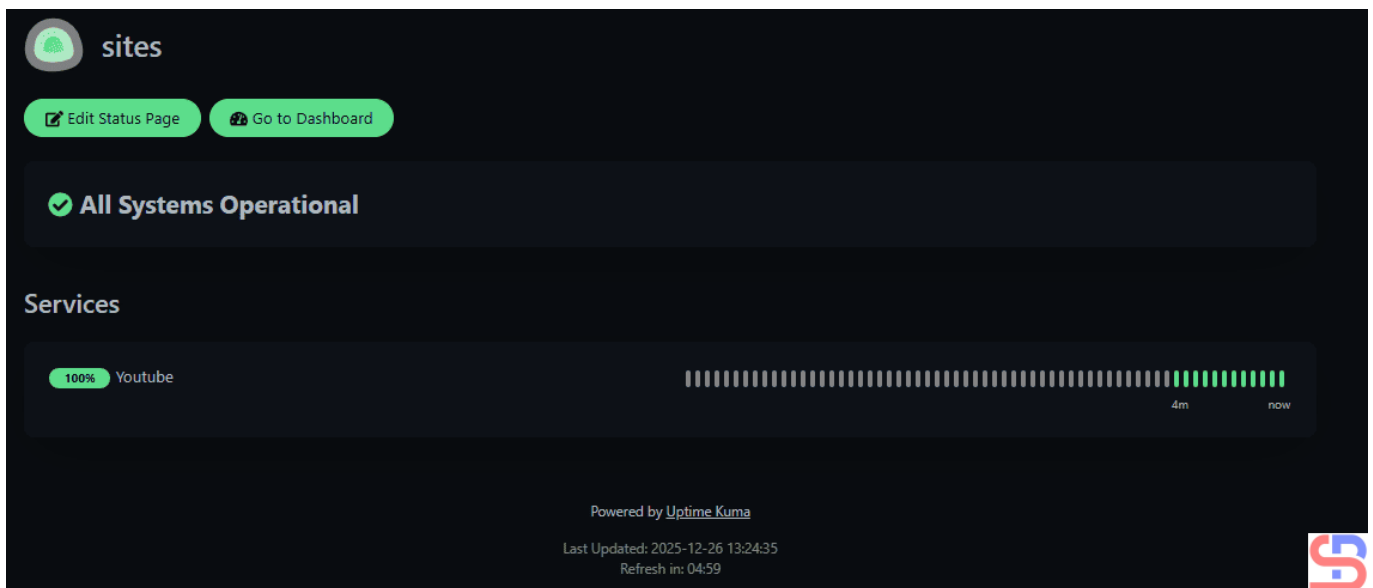
Create the Status Page page

Enter the name and slug you want (I wrote the sites for the name and slug), then press the Next button, then there will be a display as below:



Insert the host or the monitor in the Status Page

Enter the host you want to display on the Status Page, after that click the Save button, then there will be a display as below:



Display of Status Page

You can see that the hosts to be monitored look simpler and you can give the URL to other parties to also monitor these hosts.

Note

If you want to check the status of uptime kuma in the server, run the command below :

```
sudo pm2 status server/server.js --name uptime-kuma
```

```
sysadmin@ubuntu24:~/uptime-kuma$ sudo pm2 status server/server.js --name uptime-kuma
```

id	name	namespace	version	mode	pid	uptime	♻	status	cpu	mem	user	watching
1	uptime-kuma	default	2.0.1	fork	25195	75s	0	online	0%	177.2mb	root	disabled

Module

id	module	version	pid	status	♻	cpu	mem	user
0	pm2-logrotate	3.0.0	25165	online	0	0%	73.0mb	root

```
sysadmin@ubuntu24:~/uptime-kuma$
```

Check the status of uptime kuma

But if you want stop uptime kuma in the server, run the command below :

```
sudo pm2 stop server/server.js --name uptime-kuma
```

```
sysadmin@ubuntu24:~/uptime-kuma$ sudo pm2 stop server/server.js --name uptime-kuma
[PM2] Applying action stopProcessId on app [server/server.js](ids: [ 1 ])
[PM2] [uptime-kuma](1) v
```

id	name	namespace	version	mode	pid	uptime	♻	status	cpu	mem	user	watching
1	uptime-kuma	default	2.0.1	fork	0	0	0	stopped	0%	0b	root	disabled

Module

id	module	version	pid	status	♻	cpu	mem	user
0	pm2-logrotate	3.0.0	25165	online	0	0%	65.9mb	root

```
sysadmin@ubuntu24:~/uptime-kuma$
```

Stop status kuma service

References

uptimekuma.org

hostmycode.in

youtube.com

[How to Install Uptime Kuma in Docker](#)

with MariaDB on the Host?

written by sysadmin | 14 January 2026

[The previous article](#) explained how to install the Kuma uptime application using Docker and using the MariaDB database which also runs on Docker. This article will explain about installing the Kuma uptime application using Docker but using MariaDB on the host.

Problem

How to install uptime kuma in docker with MariaDB on the host?

Solution

Here are the steps to install the kuma uptime application using docker but using MariaDB on the host:

1. Configure MariaDB

Make sure you have installed the MariaDB database on your server and then change the file `/etc/mysql/mariadb.conf.d/50-server.cnf` in the **bind-address** section to be as below:

```
bind-address          = 0.0.0.0
```

Next, restart MariaDB using the command:

```
sudo systemctl restart mariadb
```

After that, access to MariaDB and run the command below:

```
CREATE DATABASE uptime_kuma;  
CREATE USER 'kuma-user'@'%' IDENTIFIED BY 'kumapass123';  
GRANT ALL PRIVILEGES ON uptime_kuma.* TO 'kuma-user'@'%';  
FLUSH PRIVILEGES;
```

\q

2. Create a docker compose file

Create a compose folder in the /opt folder using the command below:

```
sudo mkdir -p /opt/compose/uptime-kuma/  
cd /opt/compose/uptime-kuma/
```

After that, create a **docker-compose.yaml** file and copy the script below:

```
services:  
  uptime-kuma:  
    image: louislam/uptime-kuma:2  
    container_name: uptime-kuma  
    restart: unless-stopped  
    ports:  
      - "3001:3001"  
    extra_hosts:  
      - "host.docker.internal:host-gateway"  
    environment:  
      UPTIME_KUMA_DB_TYPE: mariadb  
      UPTIME_KUMA_DB_HOSTNAME: host.docker.internal  
      UPTIME_KUMA_DB_PORT: 3306  
      UPTIME_KUMA_DB_NAME: ${MARIADB_DATABASE}  
      UPTIME_KUMA_DB_USERNAME: ${MARIADB_USER}  
      UPTIME_KUMA_DB_PASSWORD: ${MARIADB_PASSWORD}  
    volumes:  
      - kuma-data:/app/data  
  
volumes:  
  kuma-data:
```

After that, create a **.env** file like the below script (The value must be the same as the value you ran the query in MariaDB):

```
MARIADB_DATABASE=uptime_kuma  
MARIADB_USER=kuma-user  
MARIADB_PASSWORD=kumapass123  
MARIADB_ROOT_PASSWORD=qwerty
```

Run the below command to turn on the docker compose:

```
docker compose up -d
```

To check if the containers are running or not, use the command below:

```
docker ps
```

After you type the commands, your screen will show up similar to the one below:

```
sysadmin@docker:~$ docker compose up -d
[+] up 3/3
 ✓ Network sysadmin_default Created 0.5s
 ✓ Volume sysadmin_kuma-data Created 0.0s
 ✓ Container uptime-kuma Created 0.6s
sysadmin@docker:~$
sysadmin@docker:~$ docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS              PORTS                               NAMES
4bd48bf06585   louislam/uptime-kuma:2             "/usr/bin/dumb-init _"  7 seconds ago Up 6 seconds (health: starting)  0.0.0.0:3001->3001/tcp, [::]:3001->3001/tcp  uptime-kuma
```

Check the running container

3. Configure webserver

If you use Apache, create a file at **/etc/apache2/sites-available/kuma.conf** and copy the script below to the file:

```
<VirtualHost *:80>
ServerName yourdomain.com
DocumentRoot /var/www/html/

ProxyPass / http://localhost:3001/
RewriteEngine on
RewriteCond %{HTTP:Upgrade} websocket [NC]
RewriteCond %{HTTP:Connection} upgrade [NC]
RewriteRule ^/?(.*) "ws://localhost:3001/$1" [P,L]

ErrorLog ${APACHE_LOG_DIR}/error.log
CustomLog ${APACHE_LOG_DIR}/access.log combined

</VirtualHost>
```

then run the command below:

```
sudo a2enmod rewrite
sudo a2enmod proxy
sudo a2enmod proxy_http
```

```
sudo a2ensite kuma.conf
```

Check if there is an error in Apache and if there is no error, reload Apache using the command below:

```
apachectl -t  
sudo systemctl reload apache2
```

INFO

If your server is running an nginx webserver, then in the file **/etc/nginx/conf.d/uptime-kuma.conf** insert the script below:

```
server {  
    listen 80;  
    server_name uptime-kuma.yourdomainname.com;  
  
    location / {  
        proxy_pass          http://localhost:3001;  
        proxy_http_version 1.1;  
        proxy_set_header    Upgrade $http_upgrade;  
        proxy_set_header    Connection "upgrade";  
        proxy_set_header    Host $host;  
        proxy_set_header    X-Real-IP $remote_addr;  
        proxy_set_header    X-Forwarded-For $proxy_add_x_forwarded_for;  
        proxy_set_header    X-Forwarded-Proto $scheme;  
  
        # Added WebSocket support  
        proxy_set_header    Sec-WebSocket-Key $http_sec_websocket_key;  
        proxy_set_header    Sec-WebSocket-Version $http_sec_websocket_version;  
        proxy_set_header    Sec-WebSocket-Extensions  
$http_sec_websocket_extensions;  
  
        # Improve performance of this reverse proxy  
        proxy_buffering    off;  
    }  
  
    # Redirect HTTP to HTTPS if needed for encryption  
    # Uncomment the following lines if you have SSL enabled  
    # return 301 https://$host$request_uri;  
}
```

Use the command below to check if there is an error in the nginx configuration and then reload nginx:

```
sudo nginx -t
```

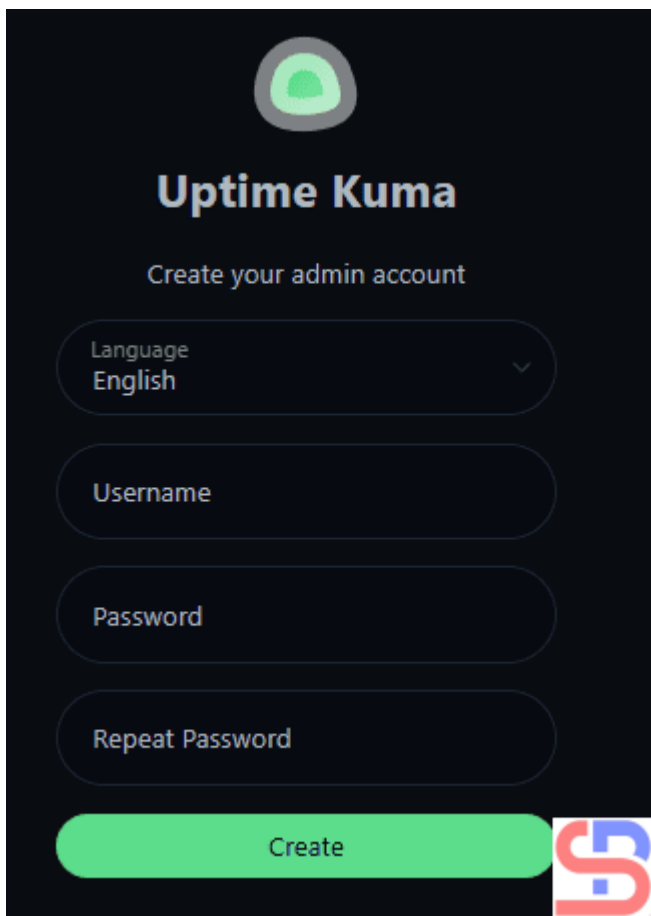
```
sudo systemctl reload nginx
```

4. Access uptime kuma

Open your browser, and type:

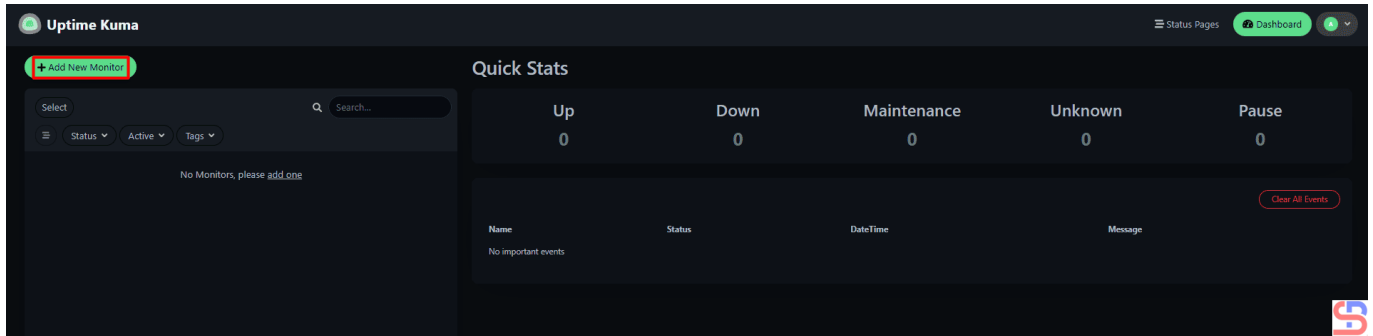
```
http://ip_server:3001
```

then there will be a display like below:

The image shows a dark-themed web interface for creating an admin account. At the top, there is a green circular logo with a white shape inside. Below the logo, the text "Uptime Kuma" is displayed in a bold, white font. Underneath, it says "Create your admin account" in a smaller, lighter font. The form consists of four rounded rectangular input fields: "Language" (with "English" selected and a dropdown arrow), "Username", "Password", and "Repeat Password". At the bottom of the form is a prominent green "Create" button. To the right of the button is a small logo consisting of a blue and red stylized "S" or "G" shape.

Fill in the columns for the admin account

Enter in the columns above the value you want and press the **Create** button then a display will appear similar to the image provided below:



Display of uptime kuma

If you want to make sure uptime kuma use MariaDB database, run the command below:

```
docker logs uptime-kuma | grep DB
```

Your screen will appear similar to the picture shown below:

```
sysadmin@docker:~$ docker logs uptime-kuma
Welcome to Uptime Kuma
Your Node.js version: 20.19.5
2025-12-26T08:18:58Z [SERVER] INFO: Env: production
2025-12-26T08:19:01Z [SERVER] INFO: Uptime Kuma Version: 2.0.2
2025-12-26T08:19:01Z [SERVER] INFO: Loading modules
2025-12-26T08:19:05Z [SERVER] INFO: Creating express and socket.io instance
2025-12-26T08:19:05Z [SERVER] INFO: Server Type: HTTP
2025-12-26T08:19:05Z [SERVER] INFO: Data Dir: ./data/
2025-12-26T08:19:05Z [SETUP-DATABASE] INFO: db-config.json is not found or invalid: ENOENT: no such file or directory, open 'data/db-config.json'
2025-12-26T08:19:05Z [DB] INFO: Database Type: mariadb
2025-12-26T08:19:06Z [MARIADB] INFO: Creating basic tables for MariaDB
2025-12-26T08:19:15Z [MARIADB] INFO: Created basic tables for MariaDB
2025-12-26T08:19:15Z [SERVER] INFO: Connected to the database
sysadmin@docker:~$
```

Check the running database

If you want to monitor the website, click the **Add New Monitor** button at the top left, an image similar to the one shown will appear:

Add New Monitor

General

Monitor Type:

Friendly Name:

URL:

Heartbeat Interval (Check every 60 seconds):
1 minute

Retries:
Maximum retries before the service is marked as down and a notification is sent

Heartbeat Retry Interval (Retry every 60 seconds):

Request Timeout (Timeout after 48 seconds):

Resend Notification if Down X times consecutively (Resend disabled):

Advanced

Notifications

Not available, please set up.

Proxy

Not available, please set up.

HTTP Options

Method:

Body Encoding:

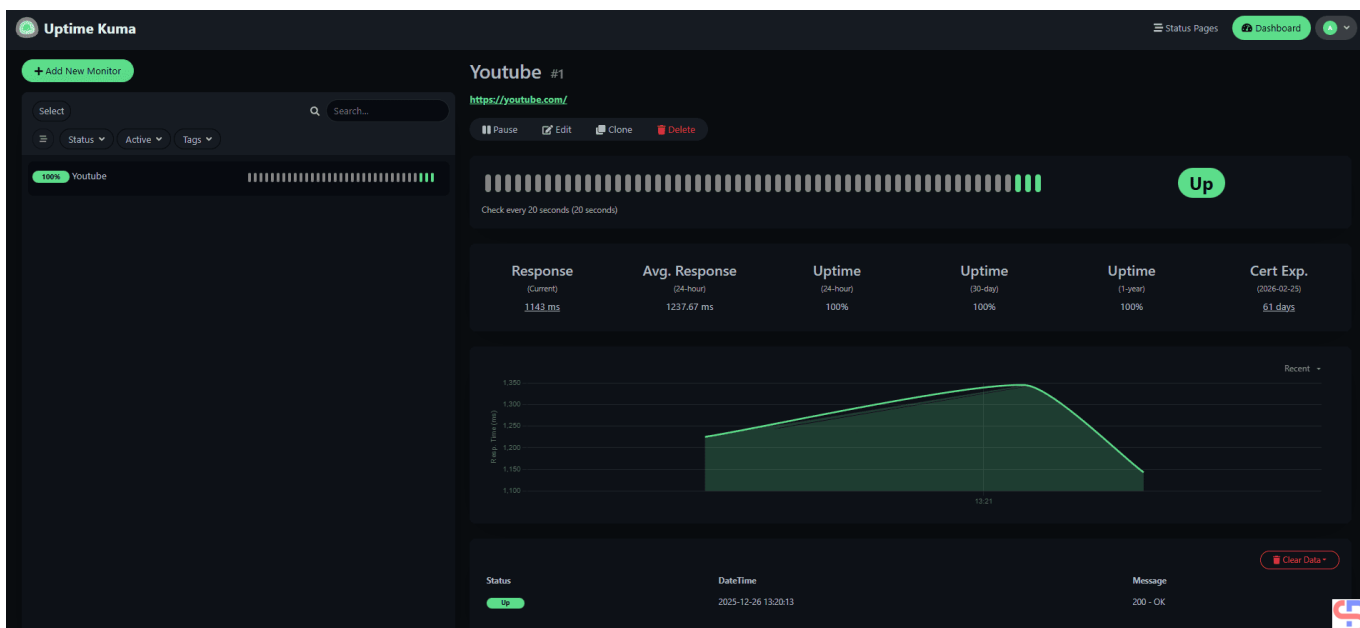
Body:

```
Example:
{
  "key": "value"
}
```

Headers:

Create a new host or a website to monitor in uptime kuma

Fill in the required fields (at least fill in the **Monitor Type**, **Friendly Name**, and **URL** columns) and press the **Save** button, then the host you have filled in will look like in the image below:



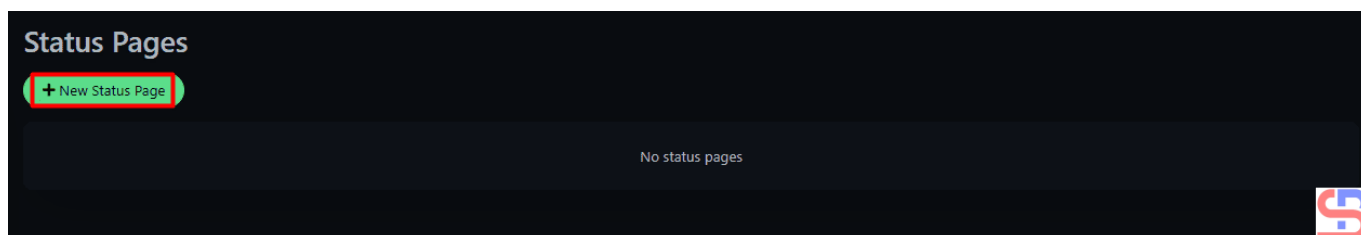
Monitor the host or the website

If you just want to display the status without displaying many attributes then you can click the **Status Pages** button at the top right of the site like the image below:



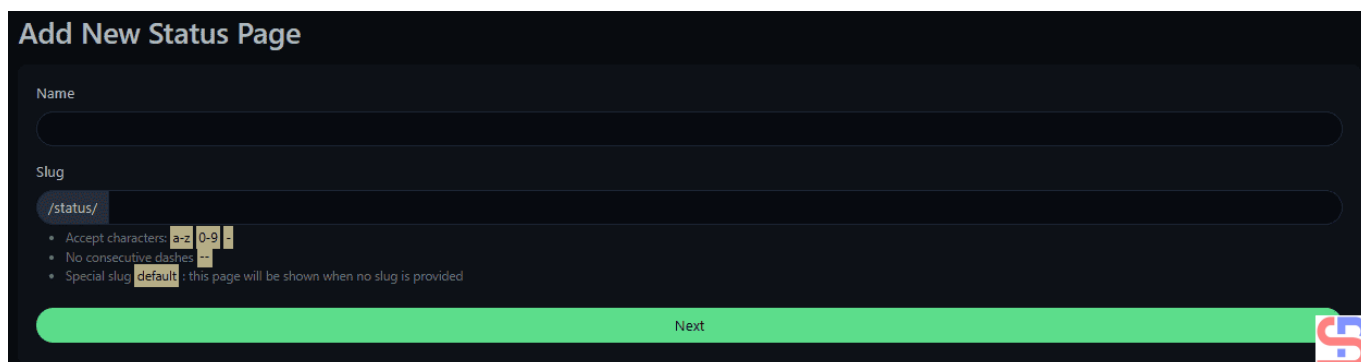
Click the Status Page button

After you press the Status Page button, the following image will appear:



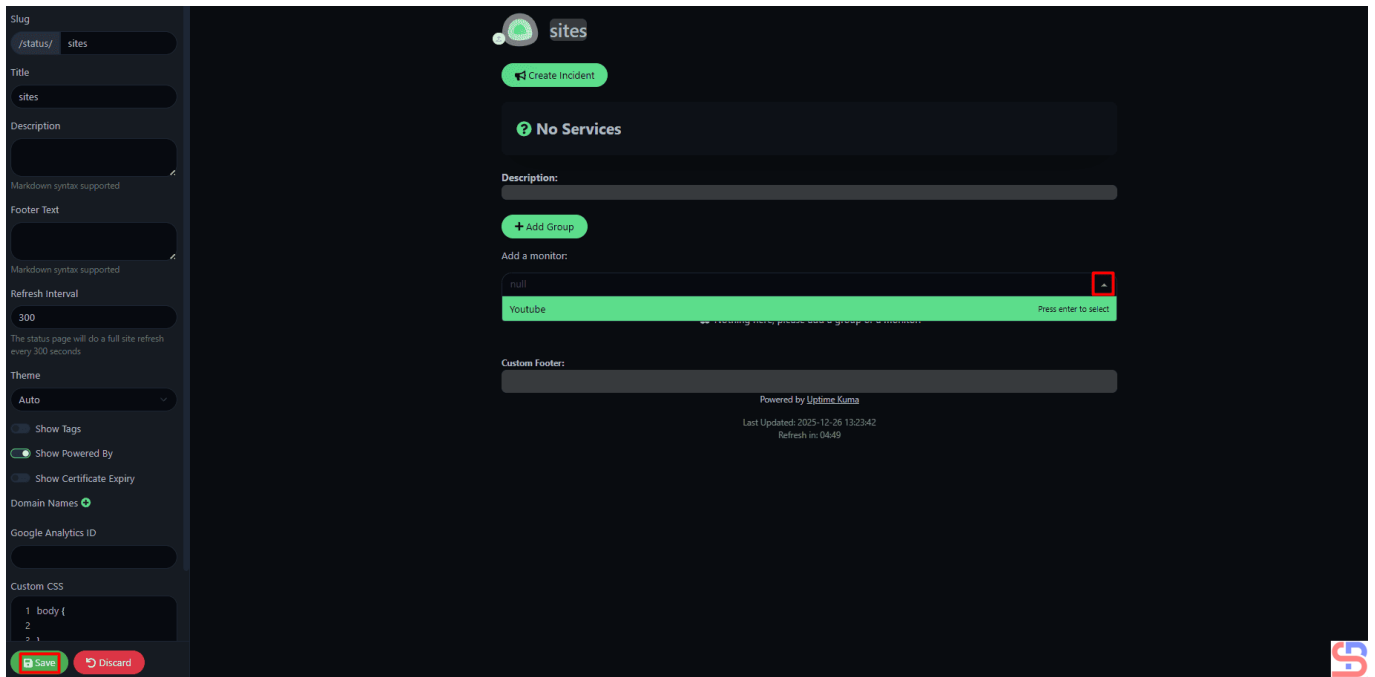
Create the Status Page page

Click the **New Status Page** button, and an image will appear similar to the one shown below:

A dark-themed form titled 'Add New Status Page'. It has two input fields: 'Name' and 'Slug'. The 'Slug' field contains '/status/'. Below the slug field, there are three bullet points: 'Accept characters: a-z 0-9', 'No consecutive dashes --', and 'Special slug default: this page will be shown when no slug is provided'. At the bottom, there is a large green button labeled 'Next'.

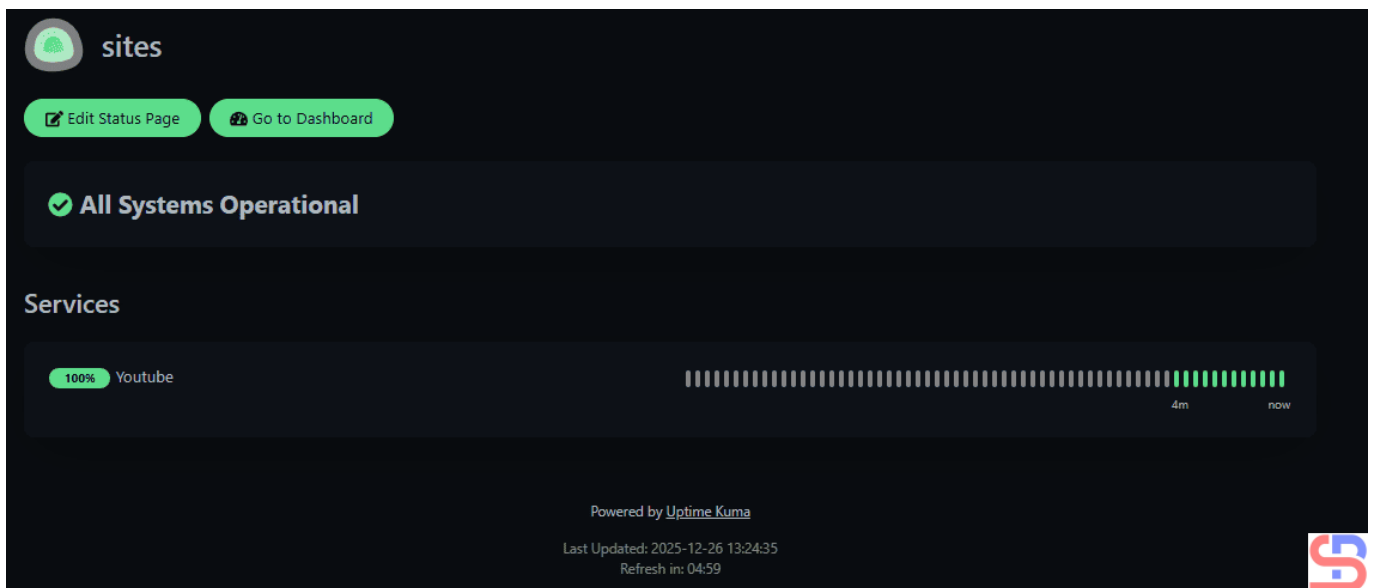
Create the Status Page page

Enter the name and slug you want (I wrote the sites for the name and slug), then press the Next button, then there will be a display as below:



Insert the host or the monitor in the Status Page

Enter the host you want to display on the Status Page, after that click the Save button, then there will be a display as below:



Display of Status Page

You can see that the hosts to be monitored look simpler and you can give the URL to other parties to also monitor these hosts.

Note

Go to [this page](#) if you want to backup the MariaDB database and for how to restore the database, you can go to [this page](#).

References

sysadminpedia.com

magnus919.com

uptimekuma.org

[How to Install Uptime Kuma And MariaDB in Docker?](#)

written by sysadmin | 14 January 2026

[The previous article](#) explained how to install the Uptime Kuma application using Docker. However, by default, Uptime Kuma uses a SQLite database, and you want to change the database to MariaDB for some reasons.

Problem

How to install Uptime Kuma and MariaDB in Docker?

Solution

Although SQLite serves as a superb embedded database option for numerous scenarios, certain inherent limitations render it inappropriate for particular applications. If your application has a large amount of traffic and uses a lot of write modes simultaneously, and the data growth is very fast, your application is not suitable for using a SQLite database. Likewise, with the Uptime Kuma application. If you

monitor many hosts using low intervals, it will cause very fast data growth, so you have to think about another database solution besides the SQLite database.

1. Create a Docker Compose file

Create a compose folder in the `/opt` folder using the command below:

```
sudo mkdir -p /opt/compose/uptime-kuma/  
cd /opt/compose/uptime-kuma/
```

After that, create `docker-compose.yaml` file and copy the script below:

```
services:  
  mariadb:  
    image: mariadb:11.4  
    container_name: mariadb  
    restart: unless-stopped  
    environment:  
      MARIADB_ROOT_PASSWORD: ${MARIADB_ROOT_PASSWORD}  
      MARIADB_DATABASE: ${MARIADB_DATABASE}  
      MARIADB_USER: ${MARIADB_USER}  
      MARIADB_PASSWORD: ${MARIADB_PASSWORD}  
    volumes:  
      - mariadb-data:/var/lib/mysql  
    networks:  
      - kuma-net  
    healthcheck:  
      test: ["CMD", "healthcheck.sh", "--connect", "--innodb_initialized"]  
      interval: 10s  
      timeout: 5s  
      retries: 5  
  
  uptime-kuma:  
    image: louislam/uptime-kuma:2  
    container_name: uptime-kuma  
    restart: unless-stopped  
    depends_on:  
      mariadb:  
        condition: service_healthy  
    ports:  
      - "3001:3001"  
    volumes:  
      - kuma-data:/app/data  
    networks:  
      - kuma-net
```

```
volumes:
  mariadb-data:
  kuma-data:
```

```
networks:
  kuma-net:
```

After that, create a `.env` file like the below script (Adjust the value of this file to your liking):

```
MARIADB_DATABASE=kuma
MARIADB_USER=kuma-user
MARIADB_PASSWORD=123456
MARIADB_ROOT_PASSWORD=qwerty
```

Run the below command to turn on Docker Compose:

```
docker compose up -d
```

To check if the containers are running or not, use the command below:

```
docker ps
```

After you type the commands, your screen will show up similar to the one below:

```
sysadmin@docker:~$ docker compose up -d
[+] up 5/5
✔ Network sysadmin_kuma-net      Created          0.4s
✔ Volume sysadmin_kuma-data     Created          0.0s
✔ Volume sysadmin_mariadb-data  Created          0.0s
✔ Container mariadb             Healthy         44.8s
✔ Container uptime-kuma        Created          0.6s
sysadmin@docker:~$ docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
731c6fa09a1e	louislam/uptime-kuma:2	"/usr/bin/dumb-init _"	About a minute ago	Up 17 seconds (health: starting)	0.0.0.0:3001->3001/tcp, [::]:3001->3001/tcp	uptime-kuma
c2b66c4b3ff1	mariadb:11.4	"docker-entrypoint.s_"	About a minute ago	Up About a minute (healthy)	3306/tcp	mariadb

```
sysadmin@docker:~$
```

Run the Docker Compose

2. Configure the web server

If you use Apache, create a file at `/etc/apache2/sites-available/kuma.conf` and copy the script below to the file:

```
<VirtualHost *:80>
```

```
ServerName yourdomain.com
DocumentRoot /var/www/html/

ProxyPass / http://localhost:3001/
RewriteEngine on
RewriteCond %{HTTP:Upgrade} websocket [NC]
RewriteCond %{HTTP:Connection} upgrade [NC]
RewriteRule ^/?(.*) "ws://localhost:3001/$1" [P,L]

ErrorLog ${APACHE_LOG_DIR}/error.log
CustomLog ${APACHE_LOG_DIR}/access.log combined

</VirtualHost>
```

Then run the command below:

```
sudo a2enmod rewrite
sudo a2enmod proxy
sudo a2enmod proxy_http
sudo a2ensite kuma.conf
```

Check if there is an error in Apache, and if there is no error, reload Apache using the command below:

```
apachectl -t
sudo systemctl reload apache2
```

INFO

If your server is running an nginx webserver, then in the file **/etc/nginx/conf.d/uptime-kuma.conf** insert the script below:

```
server {
    listen 80;
    server_name uptime-kuma.yourdomainname.com;

    location / {
        proxy_pass http://localhost:3001;
        proxy_http_version 1.1;
        proxy_set_header Upgrade $http_upgrade;
        proxy_set_header Connection "upgrade";
        proxy_set_header Host $host;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_set_header X-Forwarded-Proto $scheme;
    }
}
```

```
    # Added WebSocket support
    proxy_set_header    Sec-WebSocket-Key $http_sec_websocket_key;
    proxy_set_header    Sec-WebSocket-Version $http_sec_websocket_version;
    proxy_set_header    Sec-WebSocket-Extensions
$http_sec_websocket_extensions;

    # Improve performance of this reverse proxy
    proxy_buffering    off;
}

# Redirect HTTP to HTTPS if needed for encryption
# Uncomment the following lines if you have SSL enabled
# return 301 https://$host$request_uri;
}
```

Use the command below to check if there is an error in the nginx configuration and then reload nginx:

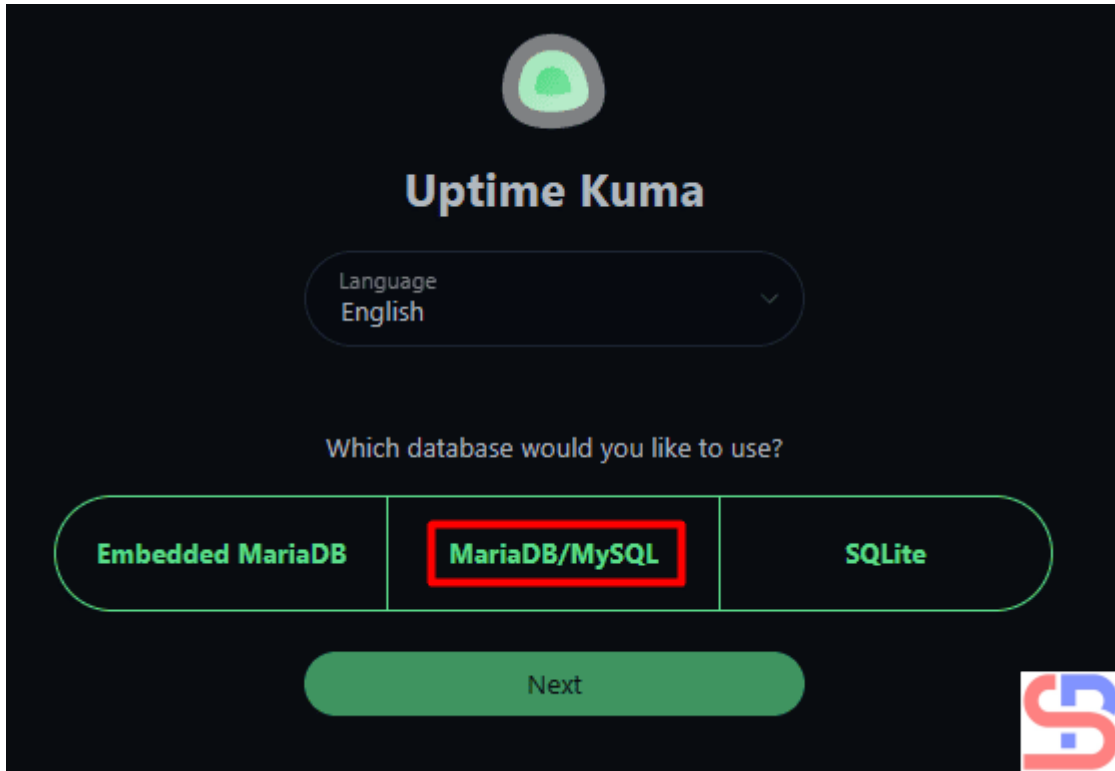
```
sudo nginx -t
sudo systemctl reload nginx
```

3. Access uptime kuma

Open your browser, and type:

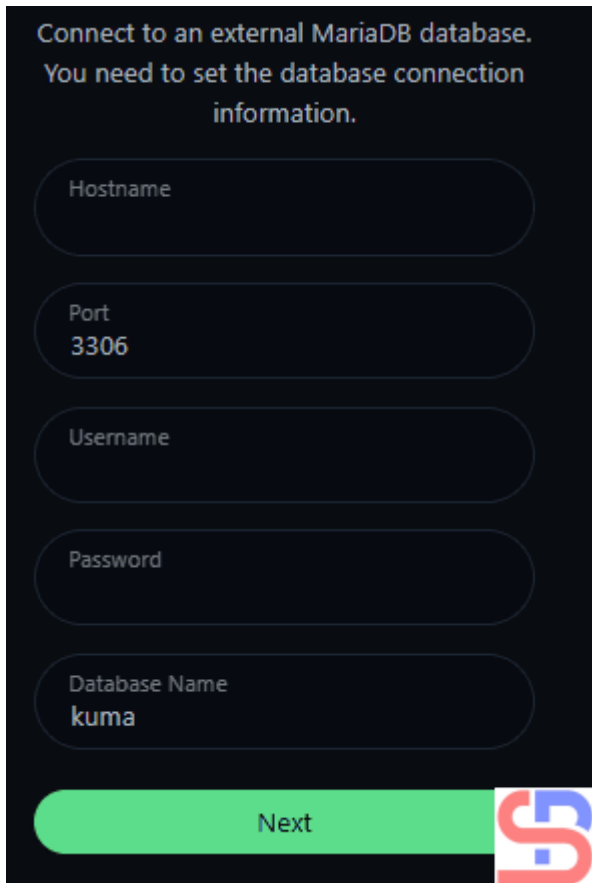
```
http://ip_server:3001
```

Then there will be a display like below:



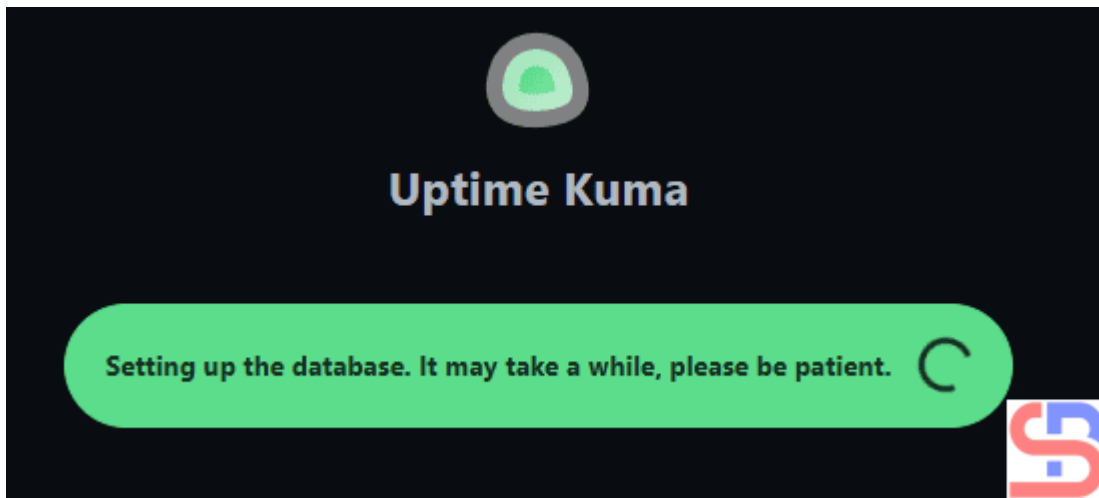
Choose MariaDB/MySQL

Click **MariaDB/MySQL**, and your screen will appear similar to the picture below:



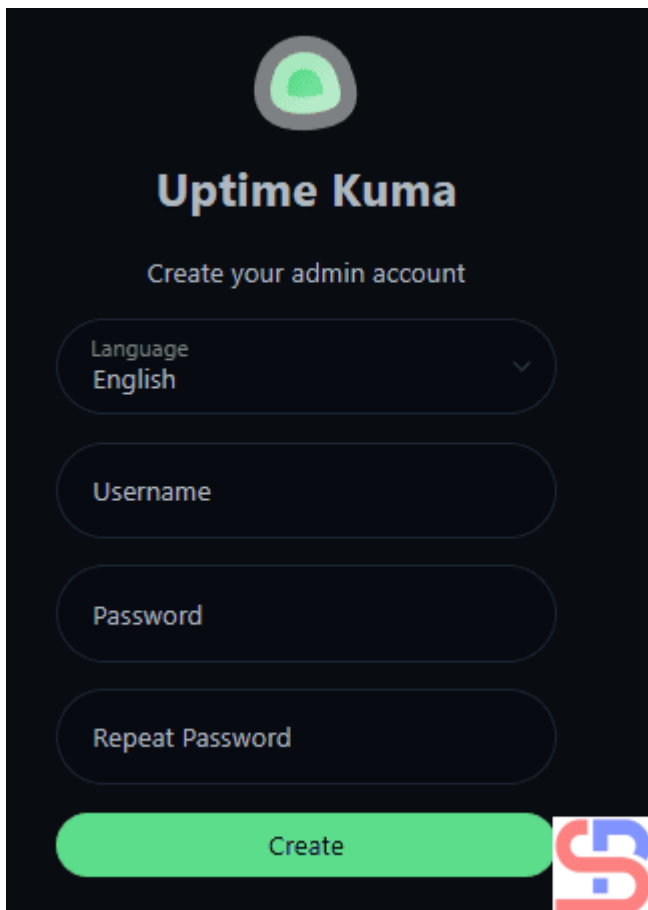
Fill in the columns for the database

Enter in the columns above the values that correspond to the `.env` file. Click the **Next** button, and your screen will show up similar to the one below:



Setting up the database

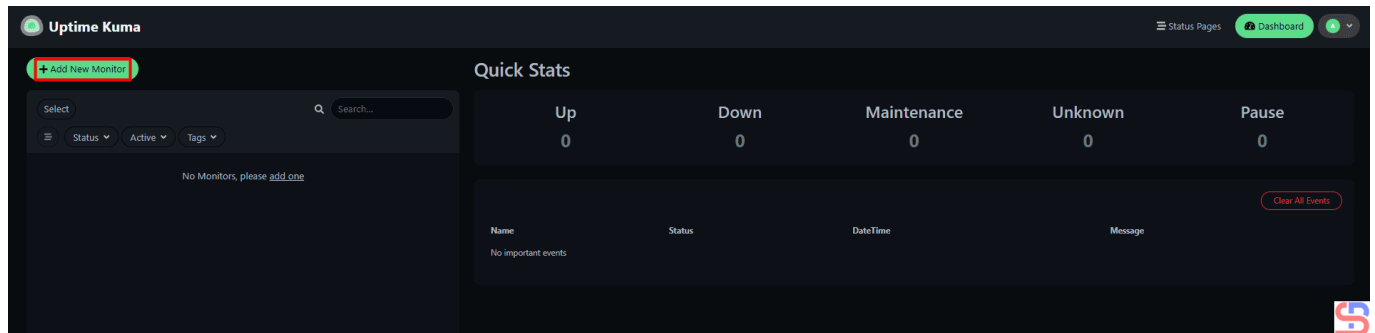
You have to wait until finishes, and after that, your screen will appear similar to the image shown below:



Fill in the columns for the admin

account

Enter in the columns above the value you want and press the **Create** button, then a display will appear similar to the image provided below:

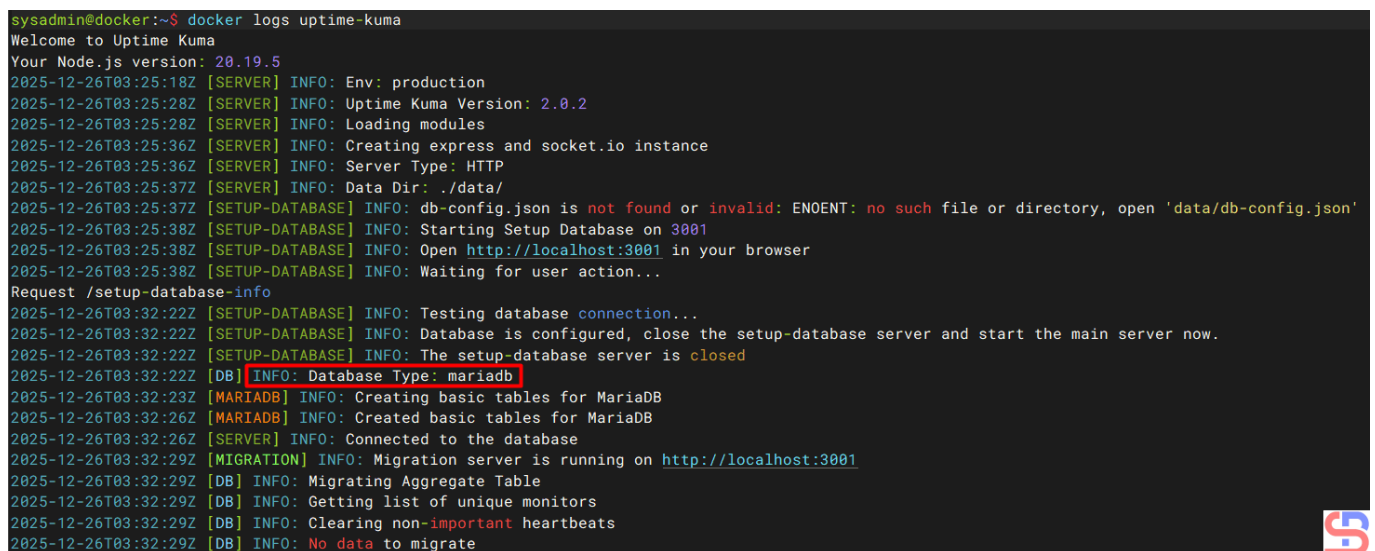


Display of uptime kuma

If you want to make sure Uptime Kuma uses a MariaDB database, run the command below:

```
docker logs uptime-kuma | grep DB
```

Your screen will appear similar to the picture shown below:



Check the running database

If you want to monitor the website, click the **Add New Monitor** button at the top left of the site, and an image similar to the one shown will appear:

Add New Monitor

General

Monitor Type:

Friendly Name:

URL:

Heartbeat Interval (Check every 60 seconds):
1 minute

Retries:
Maximum retries before the service is marked as down and a notification is sent

Heartbeat Retry Interval (Retry every 60 seconds):

Request Timeout (Timeout after 48 seconds):

Resend Notification if Down X times consecutively (Resend disabled):

Advanced

Notifications

Not available, please set up.

Proxy

Not available, please set up.

HTTP Options

Method:

Body Encoding:

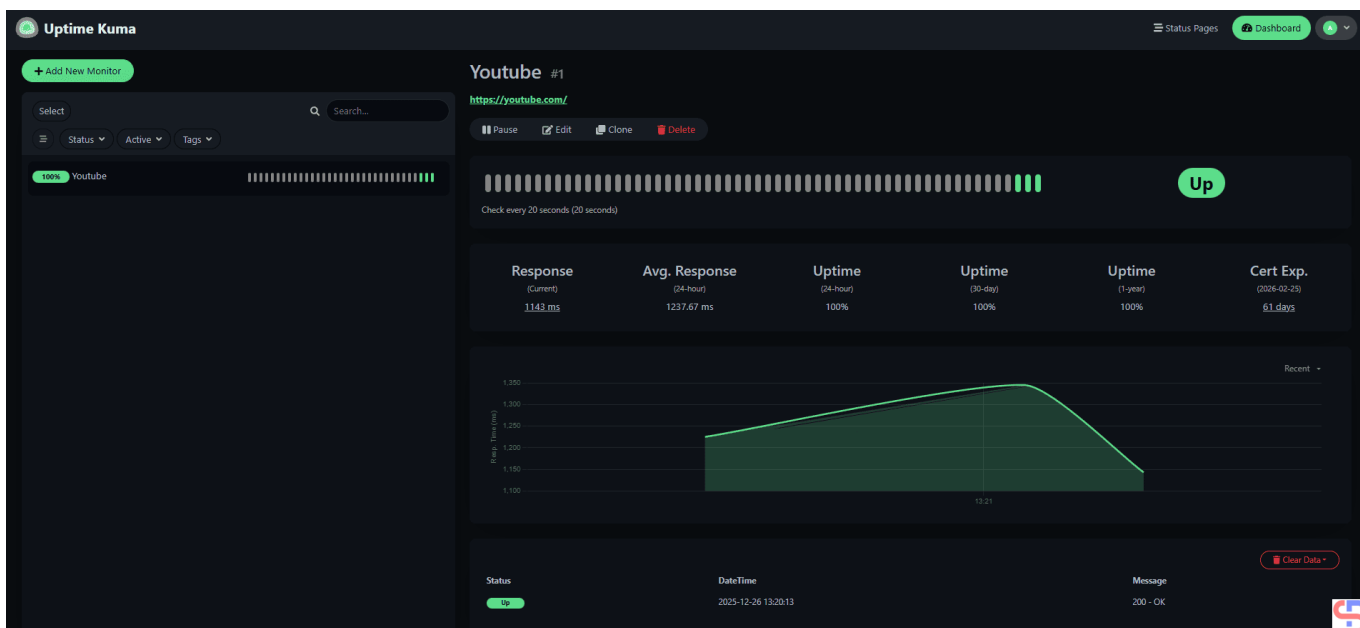
Body:

```
Example:
{
  "key": "value"
}
```

Headers:

Create a new host or a website to monitor in Uptime Kuma

Fill in the required fields (at least fill in the **Monitor Type**, **Friendly Name**, and **URL** columns) and press the **Save** button, then the host you have filled in will look like in the image below:



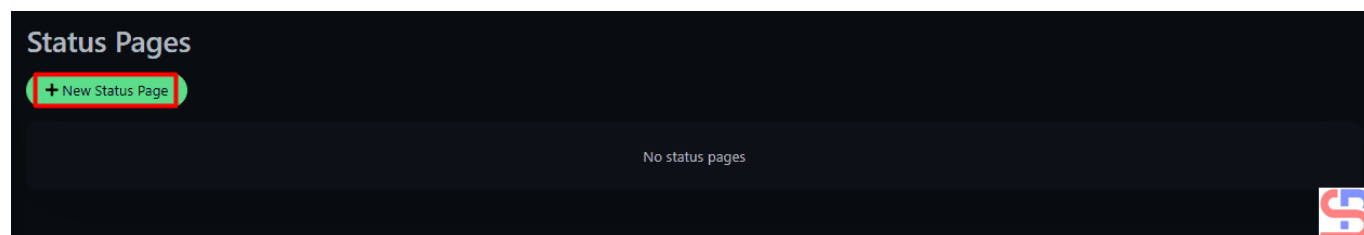
Monitor the host or the website

If you just want to display the status without displaying many attributes, then you can click the **Status Pages** button at the top right of the site, like the image below:



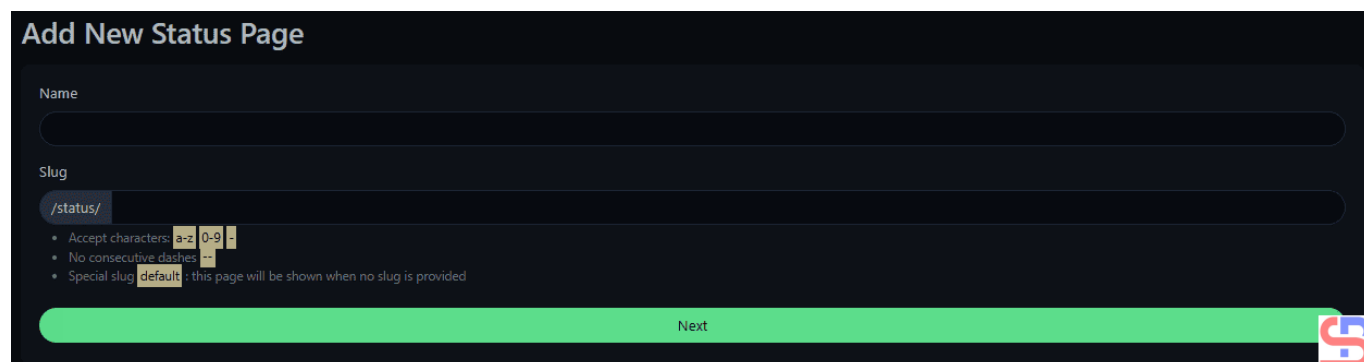
Click the Status Page button

After you press the Status Page button, the following image will appear:



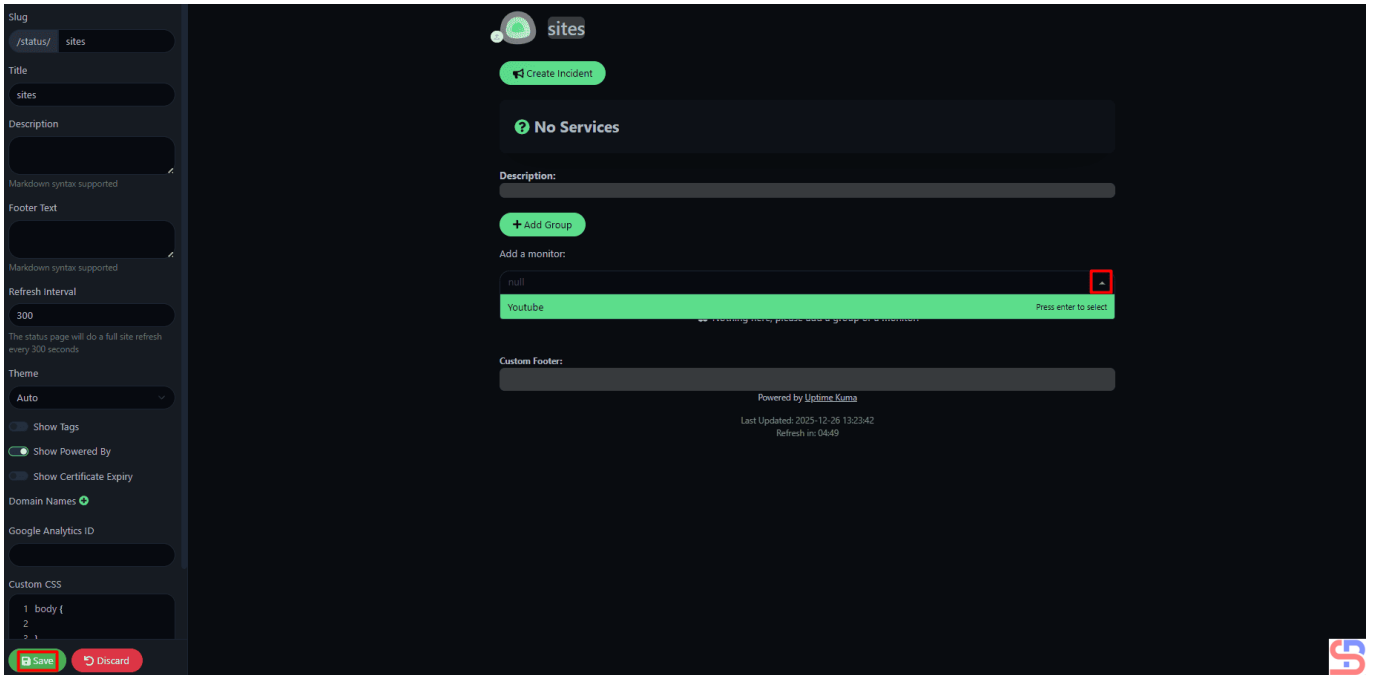
Create the Status Page page

Click the **New Status Page** button, and an image will appear similar to the one shown below:



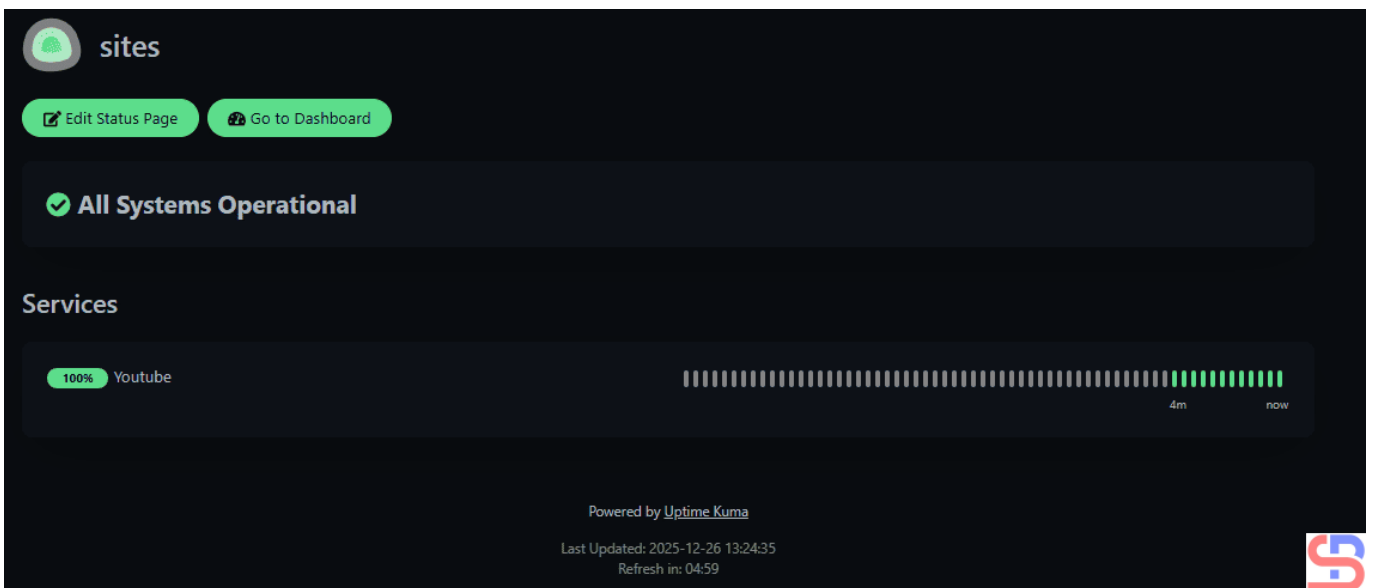
Create the Status Page page

Enter the name and slug you want (I wrote the sites for the name and slug), then press the Next button, and then there will be a display as below:



Insert the host or the monitor in the Status Page

Enter the host you want to display on the Status Page, after that, click the Save button, then there will be a display as below:



Display of Status Page

You can see that the hosts to be monitored look simpler, and you can give the URL to other parties to also monitor these hosts.

Note

If you want to back up the MariaDB database running on Docker and learn how to restore the database, you can go to [this page](#).

References

[quora.com](https://www.quora.com)

magnus919.com

uptimekuma.org

[How to Install Uptime Kuma on Linux?](#)

written by sysadmin | 14 January 2026

Uptime Kuma is a self-hosted monitoring solution created to measure the uptime and performance of websites and services. It offers live status updates, flexible alerting choices, and comprehensive metrics to help guarantee that your websites and services stay functional.

Problem

How to install Uptime Kuma on Linux?

Solution

There are 4 methods to install uptime kuma:

1. Using docker.
2. [Using docker compose with database in docker](#).
3. [Using docker compose with database in the host](#).
4. [Using package](#).

This article will explain how to install Kuma using Docker.

1. Install uptime kuma

Make sure you installed Docker in your server and you can see how to install Docker on [this page](#). After that, run the command below to install uptime kuma using docker:

```
docker run -d --restart=always -p 3001:3001 -v uptime-kuma:/app/data --name uptime-kuma louislam/uptime-kuma:1
```

Then check whether the uptime kuma container is running or not using the command:

```
docker ps | grep Kuma
```

```
sysadmin@docker:~$ docker ps | grep kuma
eb2f41d7b0b9   louislam/uptime-kuma:1   "/usr/bin/dumb-init _"   32 seconds ago   Up 30 seconds (healthy)   0.0.0.0:3001->3001/tcp, [::]:3001->3001/tcp   uptime-k
```

Check the uptime kuma container in Docker

2. Configure webserver

If you use Apache, create a file at **/etc/apache2/sites-available/kuma.conf** and copy the script below to the file:

```
<VirtualHost *:80>
ServerName yourdomain.com
DocumentRoot /var/www/html/

ProxyPass / http://localhost:3001/
RewriteEngine on
RewriteCond %{HTTP:Upgrade} websocket [NC]
RewriteCond %{HTTP:Connection} upgrade [NC]
RewriteRule ^/?(.*) "ws://localhost:3001/$1" [P,L]

ErrorLog ${APACHE_LOG_DIR}/error.log
CustomLog ${APACHE_LOG_DIR}/access.log combined

</VirtualHost>
```

then run the command below:

```
sudo a2enmod rewrite
sudo a2enmod proxy
sudo a2enmod proxy_http
sudo a2ensite kuma.conf
```

Check if there is an error in apache and if there is no error, reload apache using the command below:

```
apachectl -t
sudo systemctl reload apache2
```

INFO

If your server is running an nginx webserver, then in the file **/etc/nginx/conf.d/uptime-kuma.conf** insert the script below:

```
server {
    listen 80;
    server_name uptime-kuma.yourdomainname.com;

    location / {
        proxy_pass          http://localhost:3001;
        proxy_http_version 1.1;
        proxy_set_header    Upgrade $http_upgrade;
        proxy_set_header    Connection "upgrade";
        proxy_set_header    Host $host;
        proxy_set_header    X-Real-IP $remote_addr;
        proxy_set_header    X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_set_header    X-Forwarded-Proto $scheme;

        # Added WebSocket support
        proxy_set_header    Sec-WebSocket-Key $http_sec_websocket_key;
        proxy_set_header    Sec-WebSocket-Version $http_sec_websocket_version;
        proxy_set_header    Sec-WebSocket-Extensions
$http_sec_websocket_extensions;

        # Improve performance of this reverse proxy
        proxy_buffering    off;
    }

    # Redirect HTTP to HTTPS if needed for encryption
    # Uncomment the following lines if you have SSL enabled
    # return 301 https://$host$request_uri;
}
```

Use the command below to check if there is an error in the nginx configuration and then reload nginx:

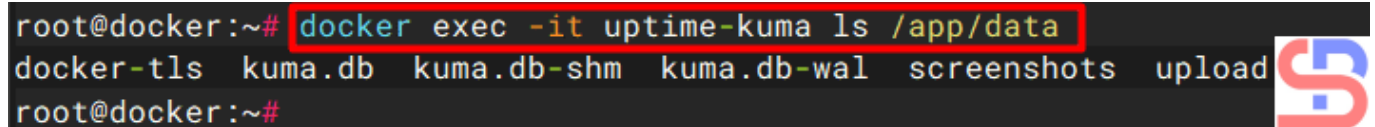
```
nginx -t
sudo systemctl reload nginx
```

3. Configure database

If you install uptime kuma using docker, you **don't need to install the database** because in the docker there is already a SQLite database where you can view it by using the command below:

```
docker exec -it uptime-kuma ls /app/data
```

```
root@docker:~# docker exec -it uptime-kuma ls /app/data
docker-tls  kuma.db  kuma.db-shm  kuma.db-wal  screenshots  upload
root@docker:~#
```



Check the database in the uptime kuma container

4. Access uptime kuma

Open your browser, and type:

```
http://ip_server:3001
```

then there will be a display like below:



Uptime Kuma

Create your admin account

Language
English

Username

Password

Repeat Password

Create



Create username and password for Uptime Kuma

Enter the username and password you want then press the **Create** button, there will be a display as below:

Uptime Kuma New Update Status Pages Dashboard A

[+ Add New Monitor](#)

Quick Stats

Up	Down	Maintenance	Unknown	Pause
0	0	0	0	0

No Monitors, please [add one](#)

Name	Status	DateTime	Message
No important events			

Display of uptime kema application

If you want to monitor a host or a website, click the **Add New Monitor** button like in the below image:

Uptime Kuma

New Update Status Pages Dashboard

+ Add New Monitor

Select Search monitored sites

Status Active Tags

No Monitors, please [add one](#)

Add New Monitor

General

Monitor Type: HTTP(s)

Friendly Name:

URL: https://

Heartbeat Interval (Check every 60 seconds): 60

Retries: 0

Maximum retries before the service is marked as down and a notification is sent

Save Retry Interval (Retry every 60 seconds)

Notifications

Not available, please setup.

Setup Notification

Proxy

Not available, please setup.

Setup Proxy

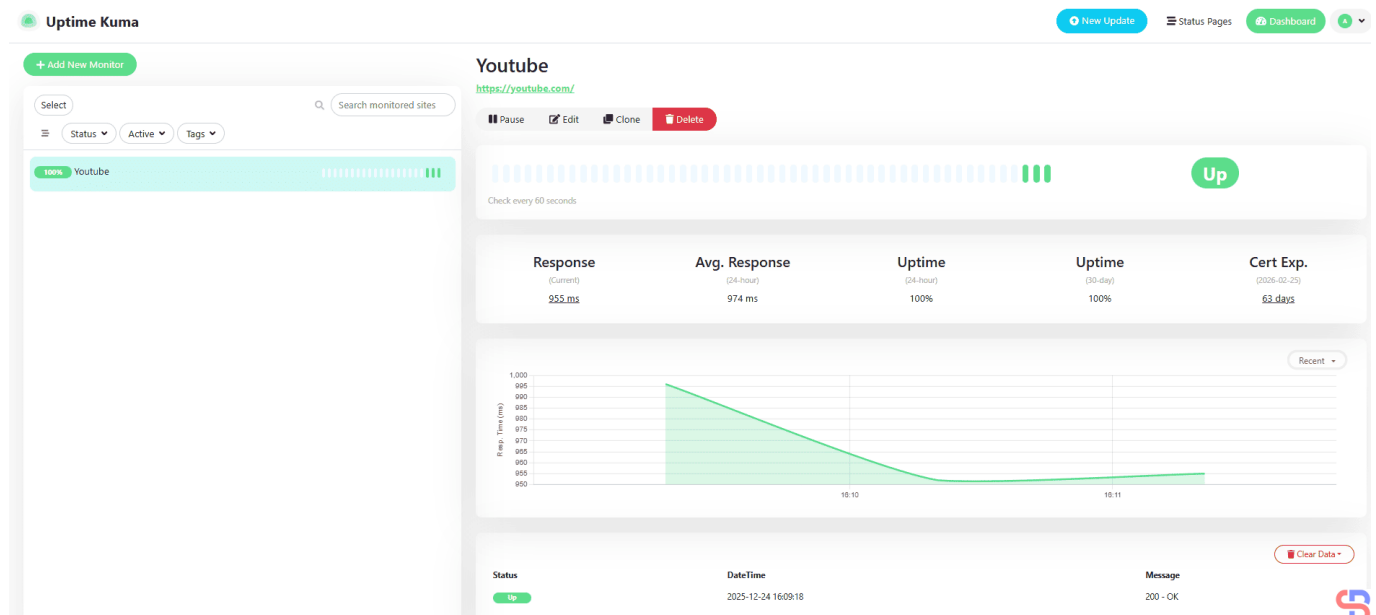
HTTP Options

Method: GET

Body Encoding: JSON

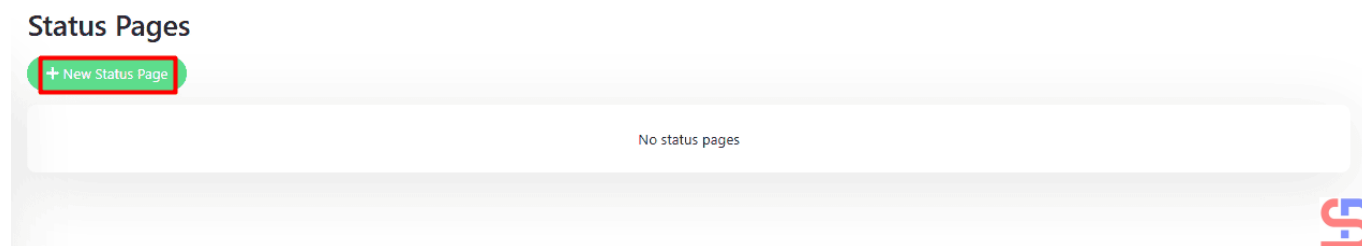
Create a new host or a website to monitor in uptime kuma

Fill in the required fields (at least fill in the **Monitor Type**, **Friendly Name**, and **URL** columns) and press the **Save** button, then the host you have filled in will look like in the image below:



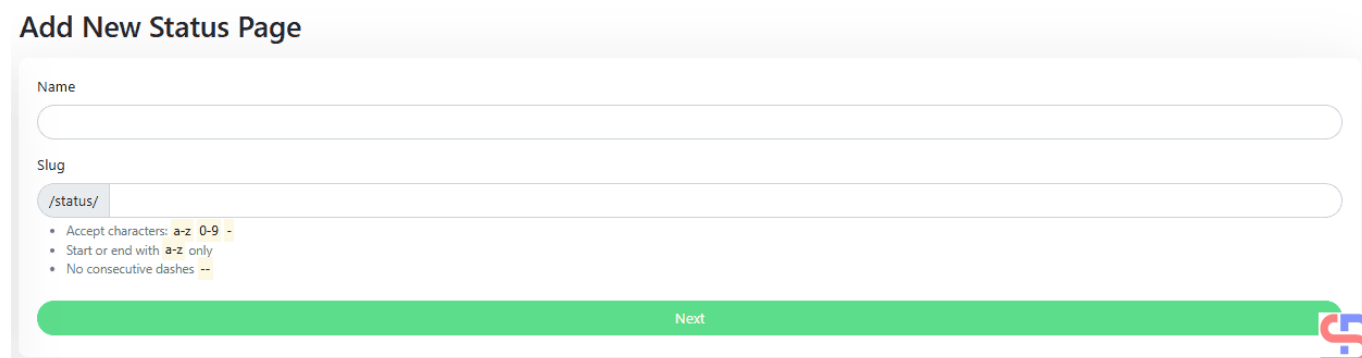
Monitor the host or the website

If you just want to display the status without displaying many attributes then you can click the **Status Pages** button at the top right of the layer then there will be a display like below:



Click the New Status Page button

Click the **New Status** page button, then there will be a display as below:



Create the Status Page page

Enter the name and slug you want (I wrote the **sites** for the name and slug), then press the **Next** button, then there will be a display as below:

Slug
/status/ sites

Title
sites

Description
Markdown syntax supported

Footer Text
Markdown syntax supported

Theme
Auto

Show Tags

Show Powered By

Show Certificate Expiry

Domain Names

Google Analytics ID

Custom CSS

```
1 body {
2
3 }
4
```

[Delete](#)

[Save](#) [Discard](#)

sites

[Create Incident](#)

No Services

Description:

[Add Group](#)

Add a monitor:

Add a monitor
Youtube Press enter to select

Custom Footer:

Powered by [Uptime Kuma](#)
Last Updated: 2025-12-24 16:55:02
Refresh in: 04:07

Insert the host or the monitor in the Status Page

Enter the host you want to display on the Status Page, after that click the **Save** button, then there will be a display as below:

Not secure 192.168.56.105:3001/status/sites

sites

[Edit Status Page](#) [Go to Dashboard](#)

All Systems Operational

Services

60.51% Youtube 47m ago now

Powered by [Uptime Kuma](#)
Last Updated: 2025-12-24 16:56:34
Refresh in: 04:15

Display of Status Page

You can see that the hosts to be monitored look simpler and you can give the URL to other parties to also monitor these hosts.

Note

If you want to backup the uptime kuma database running on docker and how to restore the database, you can go to [this page](#).

References

uptimekuma.org
kb.biznetgio.com

[How to Install phpMyAdmin With Nginx on Ubuntu?](#)

written by sysadmin | 14 January 2026

[The previous article](#) has explained how to install the phpMyAdmin application on Linux using the Apache web server. This article explains how to configure phpMyAdmin using nginx on Ubuntu.

Problem

How to install phpMyAdmin with nginx on Ubuntu?

Solution

Follow the steps below to install phpMyAdmin with Nginx on Ubuntu:

1. Update repo

Use the command below to update the Ubuntu repo:

```
sudo apt update -y
```

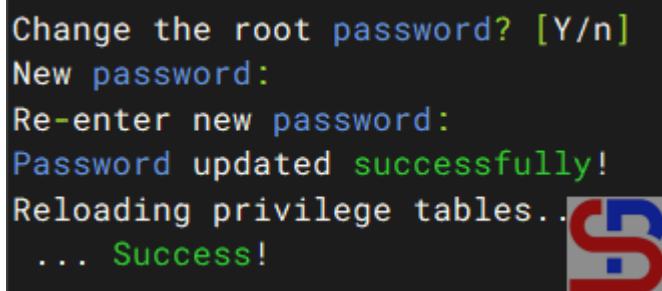
2. Install MariaDB

Next, install the MariaDB database using the command:

```
sudo apt install mariadb-server mariadb-client -y
```

Once finished, use the command below to change the root password in MariaDB:

```
sudo mysql_secure_installation
```



```
Change the root password? [Y/n]
New password:
Re-enter new password:
Password updated successfully!
Reloading privilege tables..
... Success!
```

Change the root password

Then check whether the database is up or not using the command below:

```
sudo systemctl status mariadb
```

3. Install PHP

Install PHP by using the command below:

```
sudo apt install php php-fpm php-mysql php-cli php-curl php-gd php-mbstring
php-xml php-zip -y
```

Then check the version of PHP that you just installed by using the command below:

```
php -v
```

```
sysadmin@ubuntu24:~$ php -v
PHP 8.3.6 (cli) (built: Jul 14 2025 18:30:55) (NTS)
Copyright (c) The PHP Group
Zend Engine v4.3.6, Copyright (c) Zend Technologies
    with Zend OPcache v8.3.6, Copyright (c), by Zend Technologies
sysadmin@ubuntu24:~$
```

Check the php version

Usually, when installing PHP, the Apache package will also be installed on the server. Therefore, delete Apache using the command:

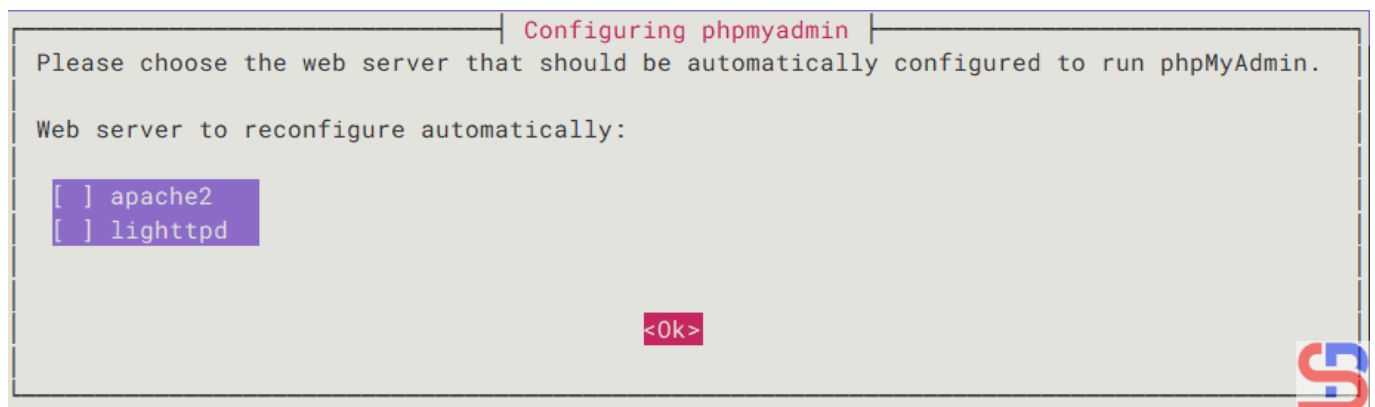
```
sudo apt remove apache2-* -y
```

4. Install phpMyAdmin

Use the command below to install phpMyAdmin:

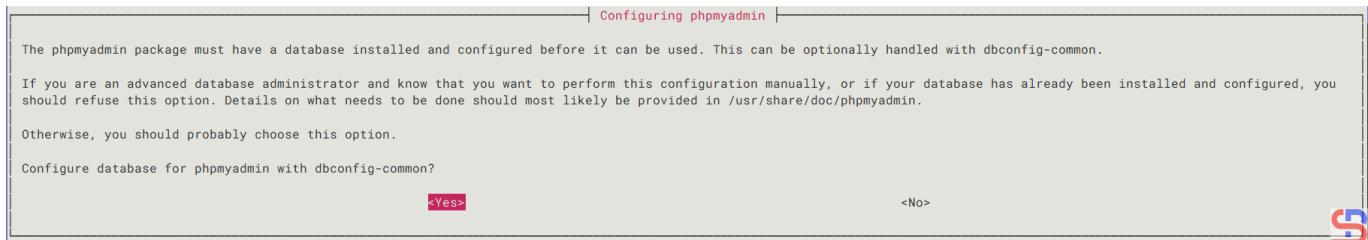
```
sudo apt install phpmyadmin -y
```

At the time of installation, there are several pop-ups that you must answer, such as the selection of the web server you are using, as shown in the image below:



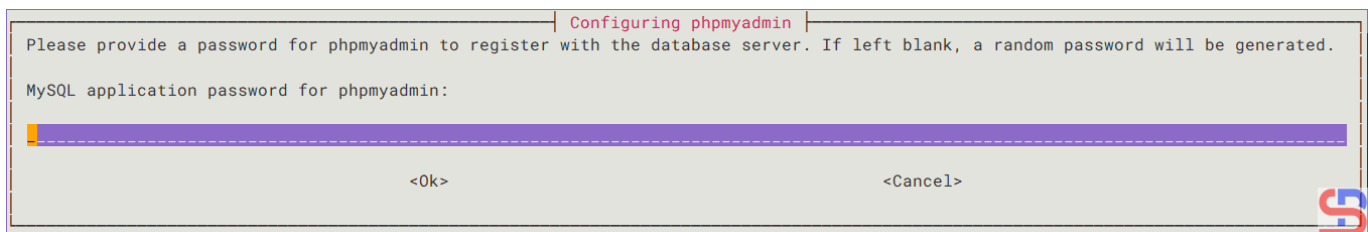
Choose the Ok button

Just select the button **Ok**, then the process of installation will continue. A few seconds later, there will be a pop-up as below to insert the phpMyAdmin in the database:



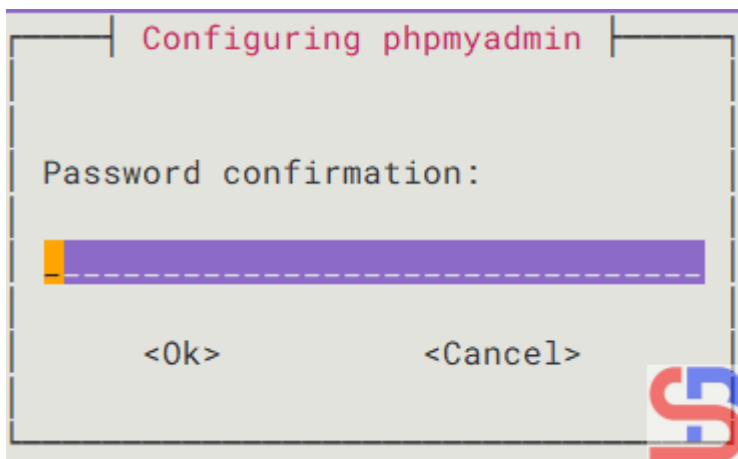
Choose the Yes button

Select the button **Yes**, and there's a pop-up to enter the password for the user phpmyadmin in the database as in the picture below:



Enter the password for the phpmyadmin user

Enter the password you want, select the **OK** button, and there will be another pop-up to confirm the password as in the image below:



Password confirmation

Enter the same password and select the **Ok** button, then the phpMyAdmin installation process will continue until completion.

5. Install nginx

Install nginx by using the command below:

```
sudo apt install nginx -y
```

After that, configure Nginx so that it can be integrated with phpMyAdmin. Copy the default file using the command below:

```
sudo cp /etc/nginx/sites-available/default /etc/nginx/sites-available/default.ori
```

Then in the default file, copy the script below:

```
server {
    listen 80;
    server_name _;
    root /var/www/html;
    index index.php index.html;

    location / {
        try_files $uri $uri/ =404;
    }

    location /phpmyadmin {
        root /usr/share/;
        index index.php;

        location ~ ^/phpmyadmin/(.+\.php)$ {
            try_files $uri =404;
            root /usr/share/;
            fastcgi_pass unix:/run/php/php8.3-fpm.sock;
            fastcgi_index index.php;
            fastcgi_param SCRIPT_FILENAME $document_root$fastcgi_script_name;
            include fastcgi_params;
        }

        location ~*
^/phpmyadmin/(.+\.(css|js|jpg|jpeg|gif|png|ico|html|xml|txt))$ {
            root /usr/share/;
        }
    }
}
```

Warning

You have to be careful when writing the php-fpm version in the **fastcgi_pass_unix** section because there will be an error if the version is different from the one installed on the server. To see the version installed on the server, use the command below:

```
ls -l /run/php/
```

After that, use the command below to check whether the nginx configuration has errors or not:

```
sudo nginx -t
```

If there are no errors, then you can run the command below to reload nginx:

```
sudo systemctl reload nginx
```

6. Open phpMyAdmin

Open your browser and type:

```
http://ip_server/phpmyadmin
```

Then there should be a display like below:



Language

English ▾

Log in ⓘ

Username:

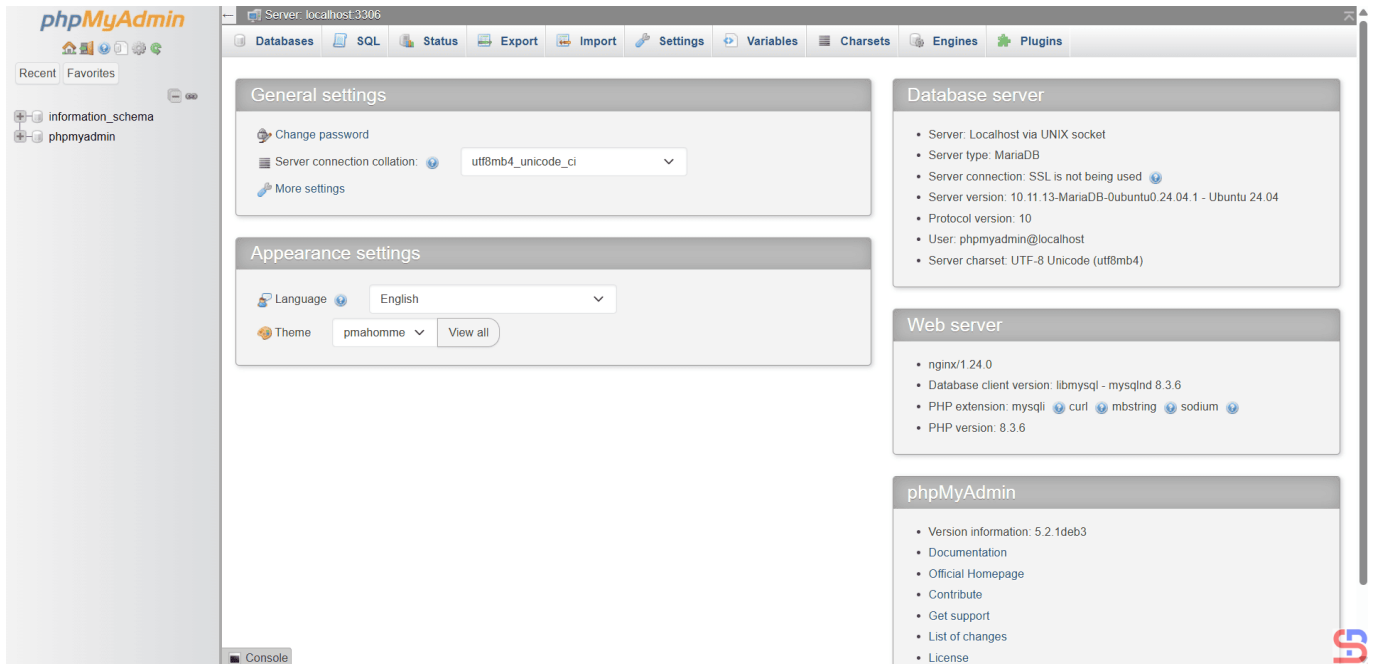
Password:

Log in



Open phpMyAdmin in the browser

Enter the database username and password, for example, using the user phpmyadmin with the password that you created when installing phpMyAdmin, then there will be a display like the one below:



Display of phpMyAdmin using phpmyadmin user

Note

If you want the phpMyAdmin application to be more secure, you can look at [this page](#).

References

markaicode.com
linuxbabe.com
hostman.com

[How to Install Mytop?](#)

written by sysadmin | 14 January 2026

As a sysadmin, you need a tool to monitor the MariaDB database, and one of the tools you can use is mytop.

Problem

How to install mytop?

Solution

Mytop is an open-source utility developed by Jeremy Zawodny with Perl for real-time monitoring of MySQL/MariaDB databases. To install this tool, use the commands below:

```
wget https://jeremy.zawodny.com/mysql/mytop/mytop-1.6.tar.gz
tar -zxvf mytop-1.6.tar.gz
cd mytop-1.6/
perl Makefile.PL
make
make test
sudo make install
```

To run this tool, use the format below:

```
mytop --prompt -d db_name
```

For example, if you want to monitor the Zabbix database, then use the command below:

```
mytop --prompt -d zabbix
```

Warning

But, if you want to use another user, you have to use the command below:

```
mytop --prompt -u zabbix_user -d zabbix
```

By default, Mytop uses the root user to enter the database, then enter the password from the root user, and you should see a display like the one below:

```

MySQL on localhost (10.11.13-MariaDB-0ubuntu0.24.04.1)          up 0+01:28:45 [06:08:59]
Queries: 8.0    qps:    0 Slow:    0.0      Se/In/Up/De(%):    00/00/00/00
                qps now:  0 Slow qps: 0.0  Threads:   32 (   1/   0) 00/00/00/00
Key Efficiency: 100.0% Bps in/out:  0.1/  5.4  Now in/out:  8.3/374.8

  Id      User      Host/IP      DB      Time      Cmd Query or State
  --      -
  8       zabbix    localhost    zabbix    0      Sleep
  42      zabbix    localhost    zabbix    0      Sleep
  65      root      localhost    zabbix    0      Query show full processlist
  48      zabbix    localhost    zabbix    1      Sleep
  47      zabbix    localhost    zabbix    4      Sleep
  10      zabbix    localhost    zabbix    6      Sleep
  52      zabbix    localhost    zabbix    7      Sleep
  44      zabbix    localhost    zabbix    8      Sleep
  45      zabbix    localhost    zabbix    14     Sleep
  36      zabbix    localhost    zabbix    15     Sleep
  43      zabbix    localhost    zabbix    16     Sleep
  57      zabbix    localhost    zabbix    16     Sleep
  37      zabbix    localhost    zabbix    22     Sleep
  11      zabbix    localhost    zabbix    38     Sleep
  61      zabbix    localhost    zabbix    38     Sleep
  39      zabbix    localhost    zabbix    58     Sleep
  56      zabbix    localhost    zabbix    137    Sleep
  58      zabbix    localhost    zabbix    257    Sleep
  59      zabbix    localhost    zabbix    377    Sleep
  55      zabbix    localhost    zabbix    497    Sleep
  38      zabbix    localhost    zabbix    1662   Sleep
  60      zabbix    localhost    zabbix    5261   Sleep
  62      zabbix    localhost    zabbix    5322   Sleep
  40      zabbix    localhost    zabbix    5323   Sleep
  41      zabbix    localhost    zabbix    5323   Sleep
  46      zabbix    localhost    zabbix    5323   Sleep
  49      zabbix    localhost    zabbix    5323   Sleep

```

View of mytop application

You see from the image above, it looks like the **top** command in Linux. The following is a brief explanation of what the image above looks like:

- The **first line** shows the version of the MariaDB Database and the uptime of the server.
- The **second line** shows the number of queries that have been processed on the server (Queries), the average number of queries per second (qps), the number of slow queries (Slow), and the percentage of Select, Insert, Update, and Delete queries (Se/In/Up/De(%)).
- The **third line** shows the current value since the last mytop refresh, which defaults to 5 seconds. The first field is the number of queries per second. The second value is the number of slow queries per second. The threads segment indicates there are a total of 32 connected threads,

1 is active (the others are sleeping), and there are 0 threads in the thread cache. The last field in the third line shows the query percentages, like in the previous line, but since last mytop refresh.

- The **fourth line** shows crucial buffer efficiency (the frequency of key reads from the buffer instead of the disk) and the total number of bytes that MySQL has both sent and received, including data from the last mytop cycle. Key Efficiency: 100.0% indicates that all keys are read from the buffer, not from the disk. Bps in/out: 0.1/5.4 shows that since startup, MySQL has averaged 0.1kbps of inbound traffic and 5.4kbps for outbound traffic. Now in/out shows the traffic again, but since last mytop refresh.
- The next line up to the last line shows a list of current MySQL threads, sorted according to their idle time (least idle first).

If you want to see more details about a query, then you can press the **f** button, and you will see a display like the one below:

Id	User	Host/IP	DB	Time	Cmd Query or State
42	zabbix	localhost	zabbix	0	Sleep
47	zabbix	localhost	zabbix	0	Sleep
48	zabbix	localhost	zabbix	0	Sleep
65	root	localhost	zabbix	0	Query show full processlist
8	zabbix	localhost	zabbix	1	Sleep
44	zabbix	localhost	zabbix	5	Sleep
10	zabbix	localhost	zabbix	7	Sleep
43	zabbix	localhost	zabbix	7	Sleep
11	zabbix	localhost	zabbix	9	Sleep
52	zabbix	localhost	zabbix	9	Sleep
61	zabbix	localhost	zabbix	9	Sleep
39	zabbix	localhost	zabbix	29	Sleep
36	zabbix	localhost	zabbix	44	Sleep
45	zabbix	localhost	zabbix	45	Sleep
55	zabbix	localhost	zabbix	108	Sleep
57	zabbix	localhost	zabbix	228	Sleep
37	zabbix	localhost	zabbix	233	Sleep
56	zabbix	localhost	zabbix	348	Sleep
58	zabbix	localhost	zabbix	468	Sleep
59	zabbix	localhost	zabbix	588	Sleep
38	zabbix	localhost	zabbix	1873	Sleep
60	zabbix	localhost	zabbix	5472	Sleep
62	zabbix	localhost	zabbix	5533	Sleep
40	zabbix	localhost	zabbix	5534	Sleep
41	zabbix	localhost	zabbix	5534	Sleep
46	zabbix	localhost	zabbix	5534	Sleep
49	zabbix	localhost	zabbix	5534	Sleep


full query for which thread id:



Type the **f** button to get more details

Select the ID number for which you want to display the query in detail, for example, number 65, then type number 65 and press the **Enter** button, and then there will be a display like the one below:

```
Thread 65 was executing following query:  
  
show full processlist  
  
-- paused. press any key to resume or (e) to explain --
```



Display the query in more detail

If you want to see an explanation of a query, then type the **e** button as in the image below, then there will be a display like the one below:

Id	User	Host/IP	DB	Time	Cmd Query or State
42	zabbix	localhost	zabbix	0	Sleep
43	zabbix	localhost	zabbix	0	Sleep
47	zabbix	localhost	zabbix	0	Sleep
65	root	localhost	zabbix	0	Query show full processlist
8	zabbix	localhost	zabbix	2	Sleep
10	zabbix	localhost	zabbix	2	Sleep
48	zabbix	localhost	zabbix	2	Sleep
45	zabbix	localhost	zabbix	4	Sleep
52	zabbix	localhost	zabbix	4	Sleep
36	zabbix	localhost	zabbix	5	Sleep
44	zabbix	localhost	zabbix	6	Sleep
61	zabbix	localhost	zabbix	34	Sleep
11	zabbix	localhost	zabbix	35	Sleep
39	zabbix	localhost	zabbix	56	Sleep
55	zabbix	localhost	zabbix	73	Sleep
58	zabbix	localhost	zabbix	74	Sleep
57	zabbix	localhost	zabbix	433	Sleep
37	zabbix	localhost	zabbix	439	Sleep
56	zabbix	localhost	zabbix	554	Sleep
59	zabbix	localhost	zabbix	794	Sleep
38	zabbix	localhost	zabbix	2079	Sleep
60	zabbix	localhost	zabbix	5678	Sleep
62	zabbix	localhost	zabbix	5739	Sleep
40	zabbix	localhost	zabbix	5740	Sleep
41	zabbix	localhost	zabbix	5740	Sleep
46	zabbix	localhost	zabbix	5740	Sleep
49	zabbix	localhost	zabbix	5740	Sleep

explain which query (id):

Type the ID number to explain the query

Type the ID number you want to explain, and after that, press the **Enter** key. If you want to see the command view, press the **c** button, then there will be a display like below:

Command	Total	Pct	Last	Pct
show status	78	50%	1	100%
show processlist	71	46%	0	0%
change db	4	2%	0	0%
show variables	1	0%	0	0%
Compression	0	0%	0	0%

Display the command view

The **Command** column displays the type of command or query that was executed, and the following is a brief explanation:

- – The **Total column** represents the overall count of that type of command executed since the server began.
- – The **Last column** indicates how many of that command type were executed since the last mytop refresh
- – The **Pct column** indicates the equivalent percentage.

If you want to exit the mytop application, press the **q** button. If you want to enter the mytop application without having to type a password, you can create a `.mytop` file. Type the command:

```
vi ~/.mytop
```

After that, copy the script below, assuming the Zabbix database that you want to monitor uses the mytop application:

```
host=localhost
db=zabbix
user=root
pass=qwerty
delay=5
port=3306
socket=
batchmode=0
color=1
idle=1
```

After that, type the mytop command, and the mytop application should immediately display the mytop application without you having to write arguments and passwords, as in the image below:

```
sysadmin@ubuntu2404:~$
```

```
I
```

Run the mytop tool without arguments and a password

You should only make a user a viewer if you are afraid that others will see your database password.

Note

Regrettably, this application is no longer under development, and the final version available is 1.6 from 2007. Nonetheless, after I use this tool in November 2025, it remains effective for monitoring MySQL/MariaDB databases.

References

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[How to Install PHPMysqlAdmin on Linux?](#)

written by sysadmin | 14 January 2026

By default, if you want to access the MariaDB database, then you have to access it using the CLI. However, this method is a bit difficult, especially for those who are not used to the CLI. So you need an application that can display the database in the GUI, and you can interact with the database using the application. One application that is often used is the PHPMysqlAdmin application.

Problem

How to install PHPMysqlAdmin on Linux?

Solution

phpMyAdmin is an open-source, free MySQL and MariaDB administration tool, and as of this writing (November 2025), this application has version 5.2.3. This application is a web application and is written using PHP. Before installing the PHPMysqlAdmin application, you must have installed the database on your Linux server, and you must have provided a password for the database. Here is how to install the PHPMysqlAdmin application on Linux, based on the distro:

[Ubuntu/Debian](#)

```
sudo apt update
sudo apt install phpmyadmin php-mbstring php-zip php-gd php-json php-curl
```

RockyLinux/AlmaLinux/CentOS

```
yum install httpd
yum install php-phpmysql
```

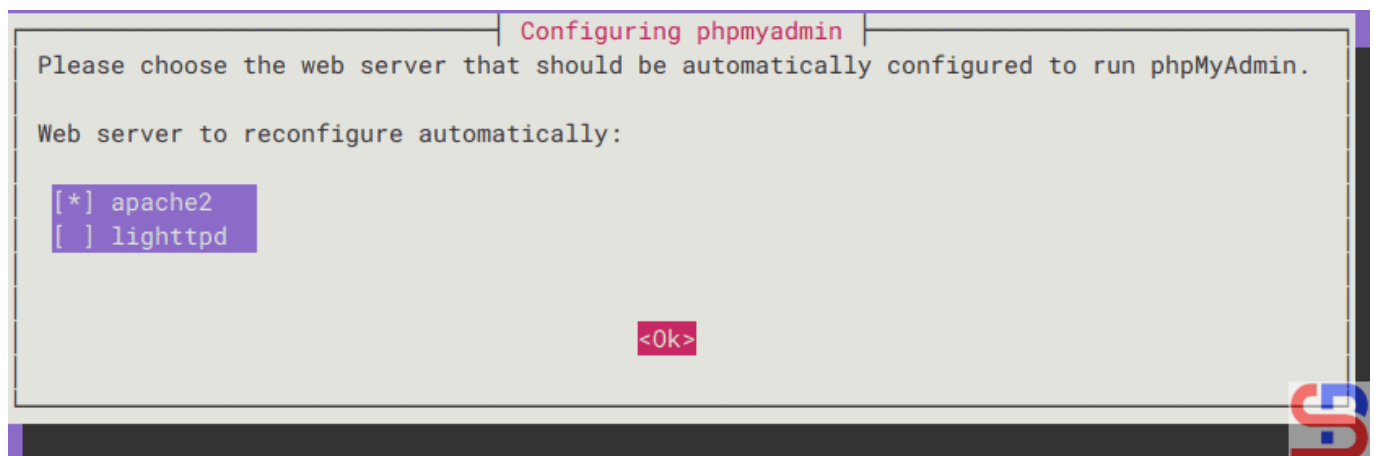
OpenSUSE

```
sudo zypper install apache2
sudo zypper install php7 php7-mysql apache2-mod_php7 phpMyAdmin
```

This article will install PHPMyAdmin on **Ubuntu 24.04** and run the command below:

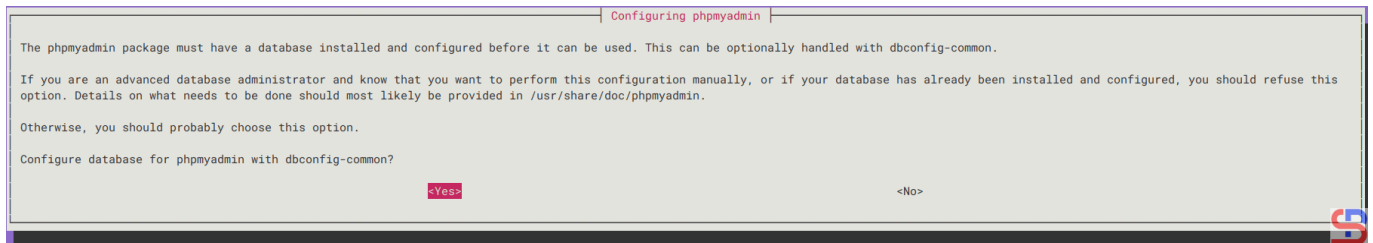
```
sudo apt update
sudo apt install phpmyadmin php-mbstring php-zip php-gd php-json php-curl
```

During installation, a pop-up will appear as below:



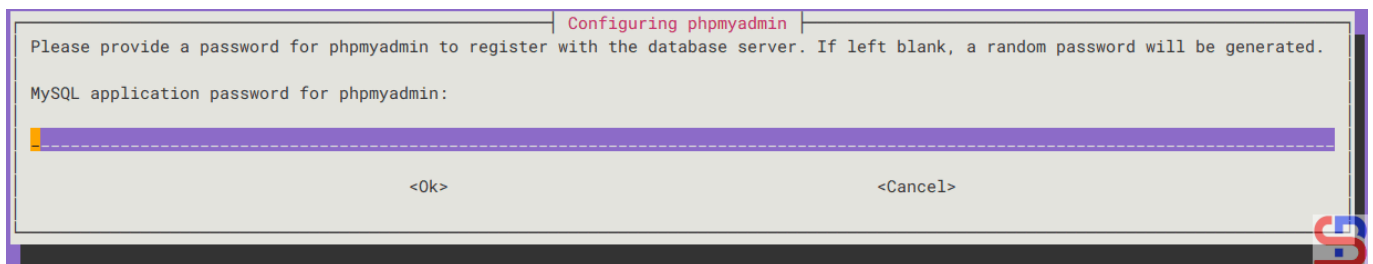
Select the web server

Select the web server used, and I use the Apache web server, and click **OK**. Then there will be another pop-up like below:



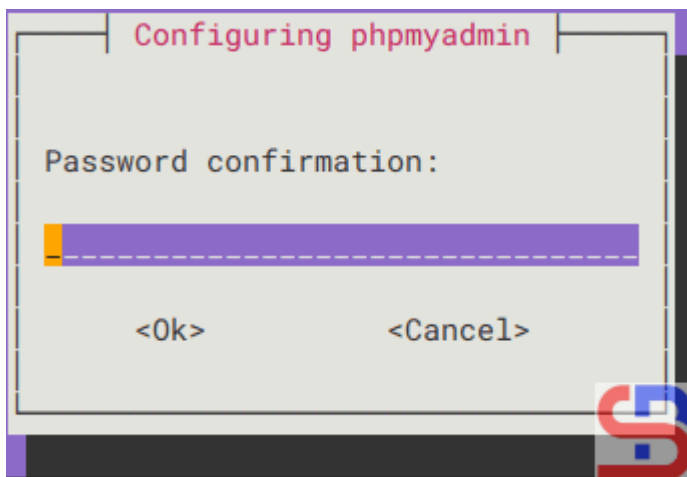
Configuring phpmyadmin

Choose **Yes**, and the installation will continue, but after that, you must enter the password for phpadmin as in the image below:



Enter the password

Enter your password, click **Ok**, and then there will be an email confirmation as in the image below:

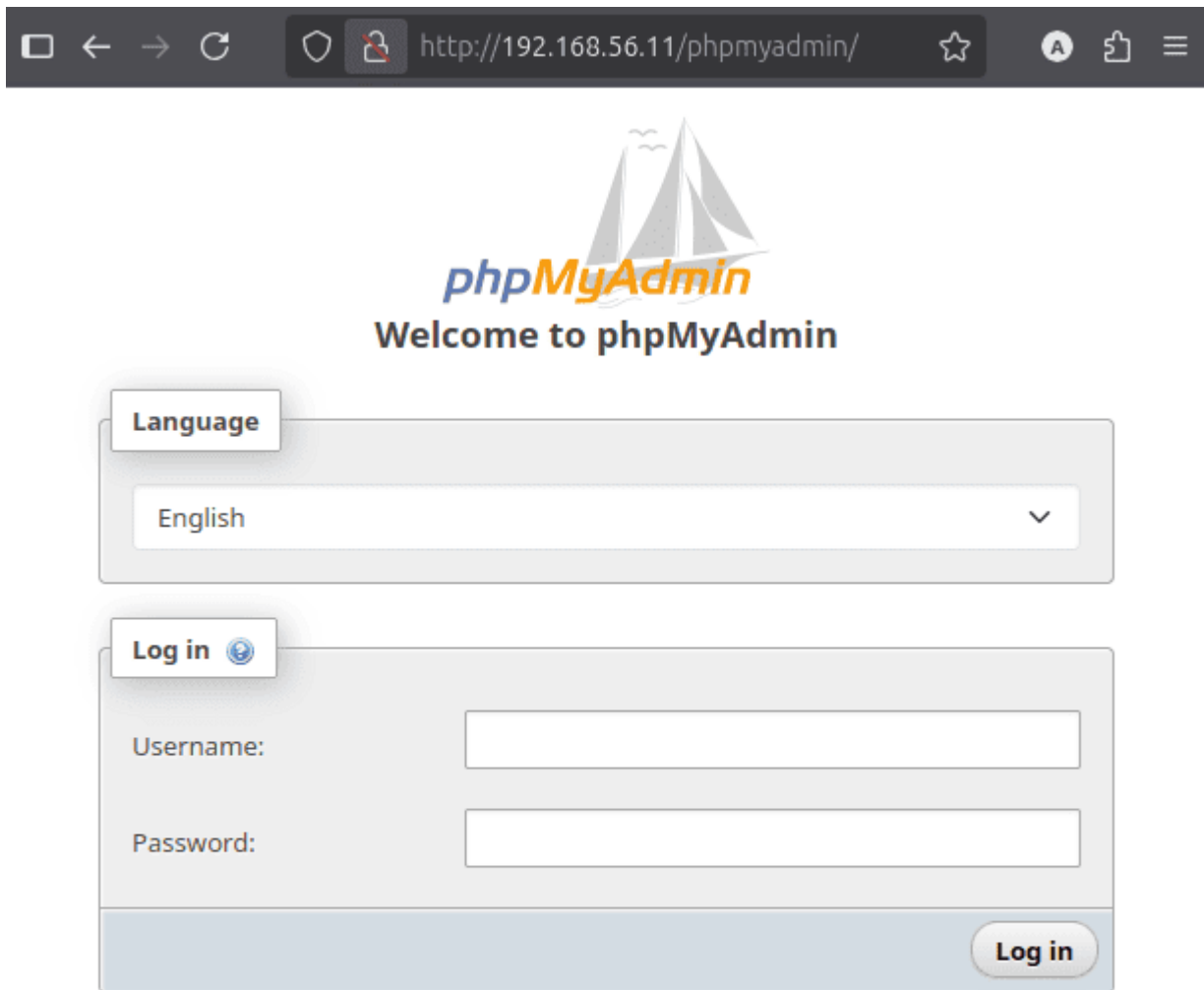


Password confirmation

Enter your password again, click **Ok**, and the installation process will continue. And you have to wait until the installation process is complete. After that, open your browser and type the URL below:

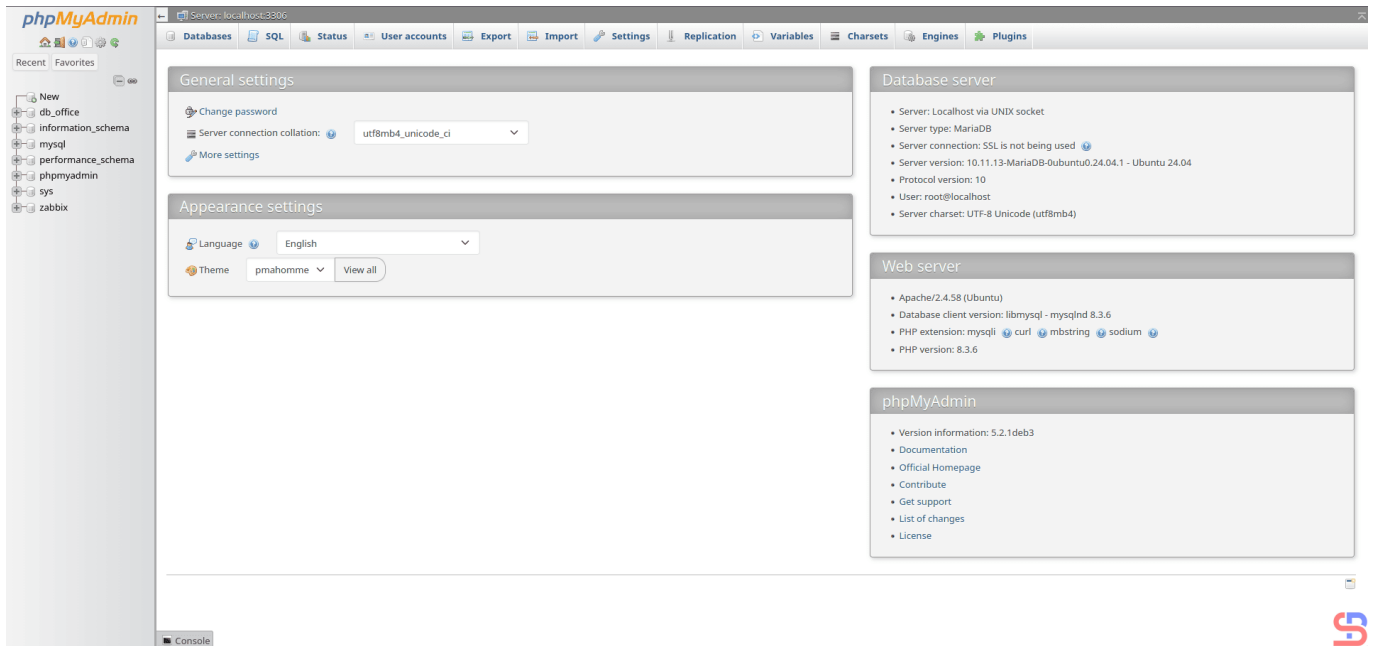
http://your_ip_server/phpmyadmin

There should be a display like the image below:



Enter username and password

If there is no display like the one above, it looks like you have to [open port](#) 80 on your server. Enter your username and password in your MySQL/MariaDB Database, and if there are no errors, then there will be a display like in the image below:



Access to PHPMyAdmin

To see all the databases in your database, click **Database** as shown in the image below:



Databases

Create database

Database name: utf8mb4_general_ci ▼ **Create**

Check all Drop

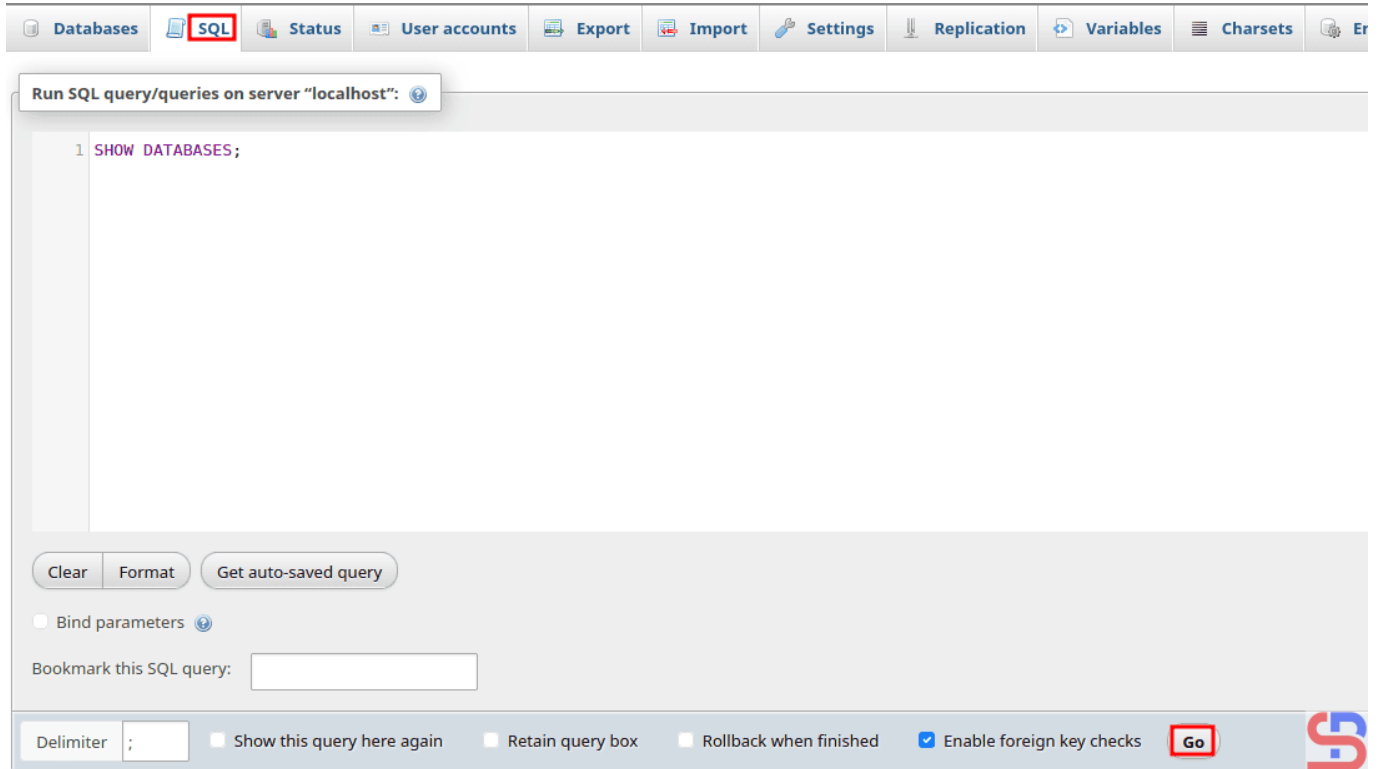
	Database ▲	Collation	Action
<input type="checkbox"/>	db_office	utf8mb4_general_ci	Check privileges
<input type="checkbox"/>	information_schema	utf8mb3_general_ci	Check privileges
<input type="checkbox"/>	mysql	utf8mb4_general_ci	Check privileges
<input type="checkbox"/>	performance_schema	utf8mb3_general_ci	Check privileges
<input type="checkbox"/>	phpmyadmin	utf8mb4_general_ci	Check privileges
<input type="checkbox"/>	sys	utf8mb3_general_ci	Check privileges
<input type="checkbox"/>	zabbix	utf8mb4_bin	Check privileges

Total: 7



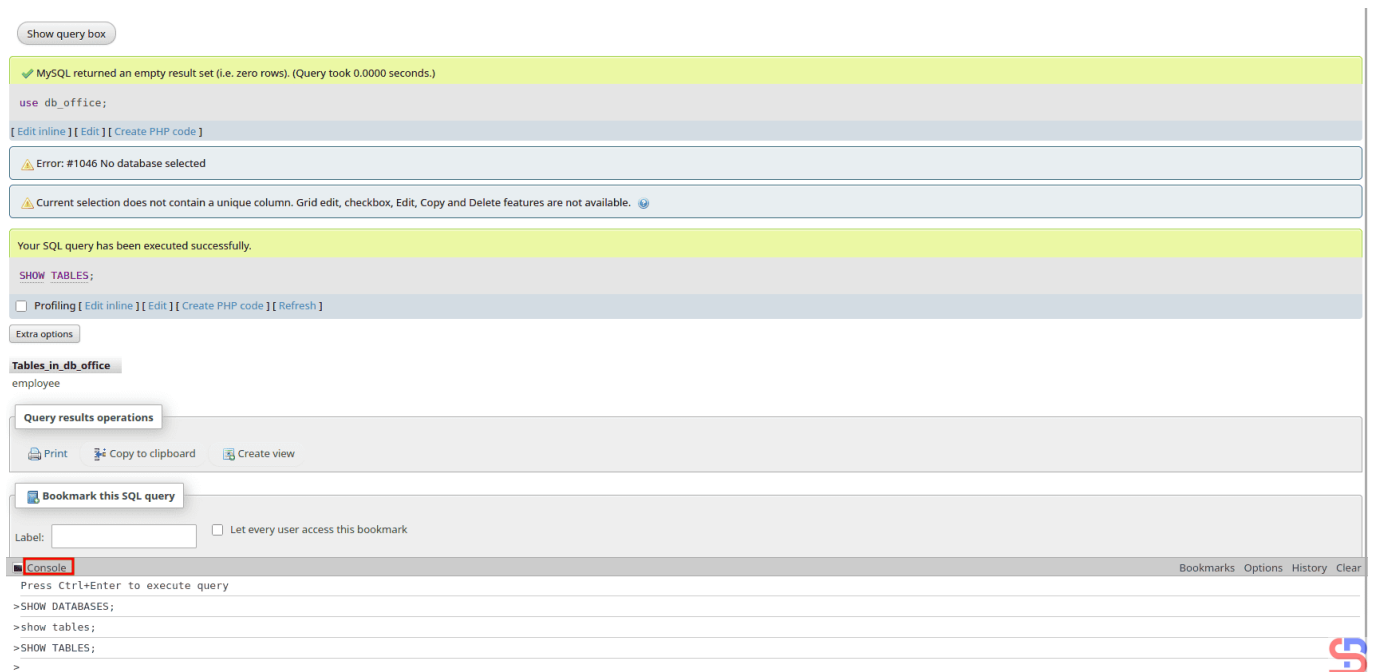
List all databases

You can also perform queries in the SQL section, as in the image below:



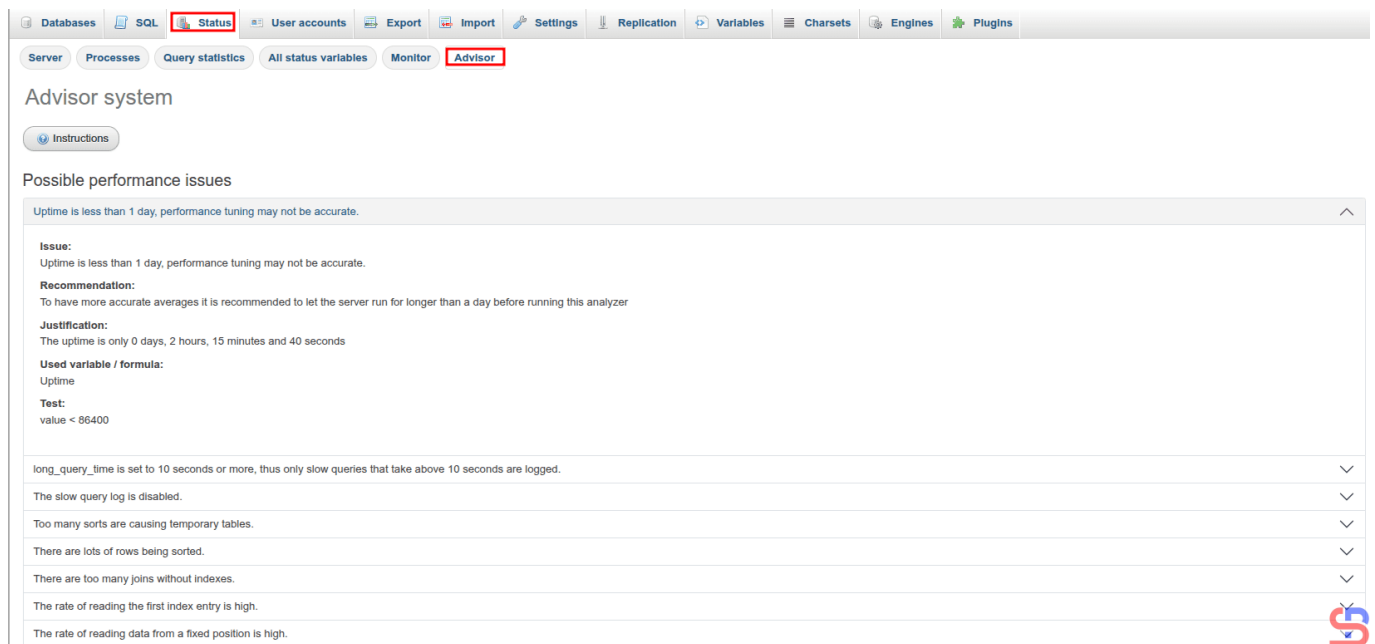
Execute query in PHPMyAdmin

And you can see the history of queries that you have done in PHPMyAdmin in the **console** section, as in the image below:



Show the history of the query in PHPMYAdmin

And in the console section, you can also perform queries by pressing **Ctrl+Enter** after you write the query. In fact, this application also provides an advisor feature to provide recommendations for your MariaDB database, as shown in the image below:



Recommendation for your database in phpMyAdmin

Note

It is highly recommended to restrict access to the PHPMYAdmin application. Therefore, this application should only be allowed on certain IPs, for example, office IPs. And you can make these restrictions in the **/etc/apache2/conf-available/phpmyadmin.conf** file in the **/usr/share/phpmyadmin** section. For example, if you want only IP 192.168.56.1 to be able to access this application, then add the script below:

```
# Limit IP
Order Deny,Allow
Deny from All
Allow from sysadminpedia.com
Allow from 192.168.56.1
Allow from 127.0.0.1
```

```
<Directory /usr/share/phpmyadmin>
Options SymLinksIfOwnerMatch
DirectoryIndex index.php

# limit libapache2-mod-php to files and directories necessary by pma
<IfModule mod_php7.c>
    php_admin_value upload_tmp_dir /var/lib/phpmyadmin/tmp
    php_admin_value open_basedir /usr/share/phpmyadmin/:/usr/share/doc/phpmyadmin/:/etc/phpmyadmin/:/var/lib/phpmyadmin/:/usr/share/php/:/usr/share/javascript/
</IfModule>

# PHP 8+
<IfModule mod_php.c>
    php_admin_value upload_tmp_dir /var/lib/phpmyadmin/tmp
    php_admin_value open_basedir /usr/share/phpmyadmin/:/usr/share/doc/phpmyadmin/:/etc/phpmyadmin/:/var/lib/phpmyadmin/:/usr/share/php/:/usr/share/javascript/
</IfModule>

# Limit IP
Order Deny,Allow
Deny from All
Allow from sysadminpedia.com
Allow from 192.168.56.1
Allow from 127.0.0.1
</Directory>
```

IP limitation in PHPMYAdmin

After that, restart your web server. Now you can't open the phpMyAdmin application except at the IP you have specified in the phpmyadmin.conf file

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