

# Cara Install OsTicket di Ubuntu 22

## How to Install osTicket on Ubuntu 22.04

osTicket is an open-source software for ticketing systems. It is written in PHP and the data can be stored in MySQL or PostgreSQL database. osTicket offers a variety of features such as Ticket Filters, Service Level Agreements, Queues, Advanced Search, etc. In this blog post, we are going to use the LAMP stack for our osTicket system. In this tutorial, we are going to explain in detail how to install osTicket on Ubuntu 22.04.

Installing osTicket with the LAMP stack on Ubuntu 22.04 is straightforward, and the process will take up to 15 minutes. Let's get things done!

### Prerequisites

- A server running Ubuntu 22.04 or an Above
- User privileges: root or non-root user with sudo privileges

### Step 1. Update the System

Since we have a fresh installation of Ubuntu 22.04, we need to update the packages to the latest versions available:

```
sudo apt update -y && sudo apt upgrade -y
```

# Step 2. Install LAMP Stack

First part of installing the LAMP stack will be the Apache web server. To install it, execute the following command:

```
sudo apt install apache2 -y
```

Once installed, start and enable the service.

```
sudo systemctl enable apache2 && sudo systemctl start apache2
```

Check if the service is up and running:

```
sudo systemctl status apache2
```

You should receive the following output:

```
root@host:~# sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Active: active (running) since Fri 2023-10-19 04:50:18 CDT; 1s ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 50686 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
 Main PID: 50690 (apache2)
    Tasks: 6 (limit: 4558)
   Memory: 10.0M
      CPU: 203ms
   CGroup: /system.slice/apache2.service
```

Next is PHP with its extensions. To install PHP 8.1 completely, execute the following command:

```
sudo apt-get install php8.1 php8.1-cli php8.1-common php8.1-imap php8.1-redis php8.1-snmp php8.1-xml php8.1-
```

To check the installed PHP version, execute the following command, **php -v**:

```
root@host:~# php -v
Created directory: /var/lib/snmp/cert_indexes
PHP 8.1.2-1ubuntu2.14 (cli) (built: Aug 18 2023 11:41:11) (NTS)
Copyright (c) The PHP Group
Zend Engine v4.1.2, Copyright (c) Zend Technologies
with Zend OPcache v8.1.2-1ubuntu2.14, Copyright (c), by Zend Technologies
```

The last component of the LAMP stack is the MariaDB (or MySQL) database server. To install the MariaDB database server, execute the command below.

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

Start and enable the mariadb.service with the following commands:

```
sudo systemctl start mariadb && sudo systemctl enable mariadb
```

Check the status of the mariadb.service

```
sudo systemctl status mariadb
```

You should receive the following output:

```
root@host:~# sudo systemctl status mariadb
● mariadb.service - MariaDB 10.6.12 database server
  Loaded: loaded (/lib/systemd/system/mariadb.service; enabled; vendor preset: enabled)
  Active: active (running) since Fri 2023-10-19 04:58:18 CDT; 22s ago
    Docs: man:mariabd(8)
          https://mariadb.com/kb/en/library/systemd/
  Main PID: 55172 (mariabd)
  Status: "Taking your SQL requests now..."
  Tasks: 15 (limit: 4558)
  Memory: 61.2M
  CPU: 1.921s
  CGroup: /system.slice/mariadb.service
          └─55172 /usr/sbin/mariabd
```

## Step 3. Create osTicket database and database user

Next is to create the MariaDB database, the database user and grant permissions to that user for access to our osTicket database. Log in to the MariaDB console and execute the commands below:

```
CREATE DATABASE osticket;
GRANT ALL PRIVILEGES ON osticket.* TO osticket@localhost IDENTIFIED BY "YourStrongPasswordHere";
FLUSH PRIVILEGES;
EXIT;
```

Make sure to replace YourStrongPasswordHere with your own strong password. Make sure to note which password you used; you'll need it later.

# Step 4. Install osTicket on Ubuntu 22.04

First, we need to download the latest osTicket version into our Apache web document root.

```
cd /var/www/html  
  
curl -s https://api.github.com/repos/osTicket/osTicket/releases/latest | grep browser_download_url | cut -d '"' -f 4 | v
```

Unzip the file and copy the configuration:

```
unzip osTicket-v1.18.zip -d osTicket  
  
cp /var/www/html/osTicket/upload/include/ost-sampleconfig.php /var/www/html/osTicket/upload/include/ost-config.  
  
rm osTicket-v1.18.zip
```

Set the right permissions to files and folders.

```
chown -R www-data:www-data /var/www/html/osTicket/  
  
find . -type d -exec chmod 755 {} \;  
  
find . -type f -exec chmod 644 {} \;
```

# Step 5. Create Apache Virtual Host File

Go into the Apache directory and create a configuration file for osTicket.

```
cd /etc/apache2/sites-available/  
  
touch osticket.conf
```

Open the file, paste the following lines of code, save the file and close it.

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

```
AllowOverride All
</Directory>

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

</VirtualHost>
```

Enable the Apache configuration for osTicket and enable the Apache rewrite module.

```
sudo a2enmod rewrite

sudo a2ensite osticket.conf
```

Use this command to check your syntax for any errors:

```
apachectl -t
```

You should receive the following output:

```
root@vps:~# apachectl -t
Syntax OK
```

If the syntax is OK, you can restart the Apache service.

```
systemctl reload apache2
```

Once the Apache service is restarted, you can finish the osTicket installation at **<http://yourdomain.com>**. You must set a Name, Email, Username, and a strong password for your ticketing system. Also, you will be asked for the database credentials you set in step three during the installation. Congrats! You can now start using osTicket.

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