



Expert Cloud Consulting

Enhance Optimise & Scale

ASCP GPUonCLOUD Pvt Ltd

“Expert Cloud Consulting” -

LAMP INSTALLATION

30.July.2025

version 22.0

—

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“Expert Cloud Consulting” LAMP Installation steps

1.0 Contents

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2.0 General Information:

2.1 Document Jira/ Github Ticket(s)

Ticket(s) Name	Url
Setup Ubuntu Server with WordPress, osTicket, and ownCloud	https://www.digitalocean.com/community/tutorials/install-wordpress-on-ubuntu#step-4-create-wordpress-database

2.2 Document Purpose

This document provides step-by-step guidance for configuring an Ubuntu Server and run three applications—WordPress, osTicket, and ownCloud—each using specific PHP versions and hosted under separate subdirectories. The guide covers Apache configuration, PHP-FPM setup, MariaDB, and application installation

2.3 Document Revisions

Date	Version	Contributor(s)	Approver(s)	Section(s)	Change(s)
30/July/2025	1.0	Bindu	Bindu	All Sections	New Document Created



2.4 Document References

The following artifacts are referenced within this document. Please refer to the original documents for additional information.

Date	Document	Filename / Url
2022	Setup WordPress on Ubuntu	https://www.digitalocean.com/community/tutorials/install-wordpress-on-ubuntu
2024	osTicket Installation on LAMP	https://www.atlantic.net/dedicated-server-hosting/how-to-install-osticket-on-ubuntu-24-04/
2018	ownCloud Server Setup on Ubuntu	https://www.digitalocean.com/community/tutorials/how-to-install-and-configure-owncloud-on-ubuntu-18-04
2023	2 versions of php	https://www.youtube.com/watch?v=Xzs4VLc3iE0

3.0 Document Overview:

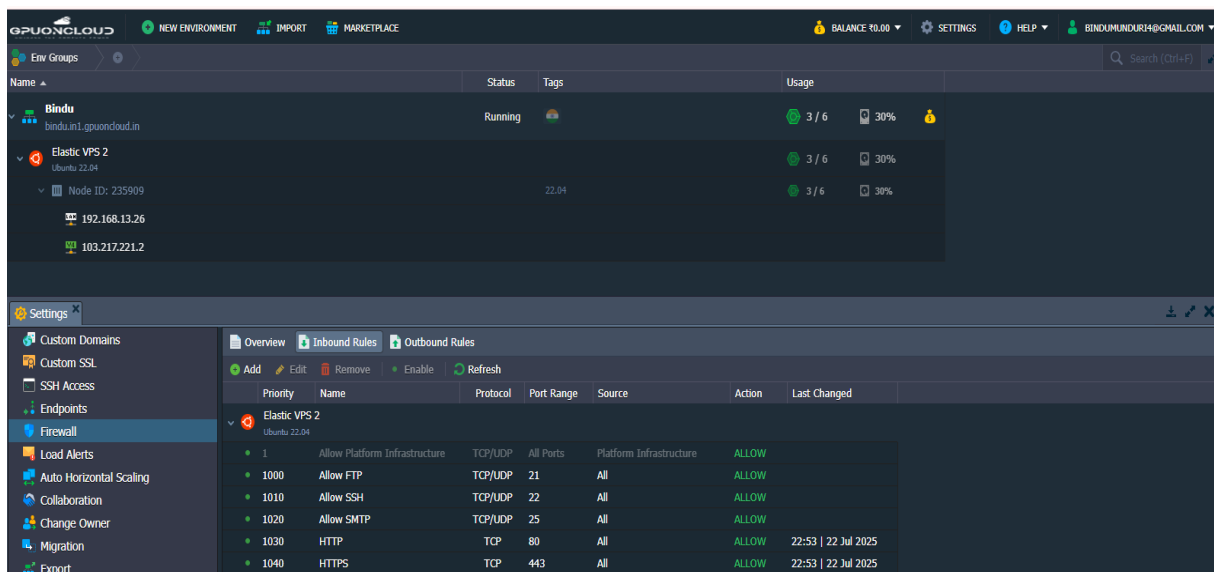
This document provides a comprehensive guide for setting up server is configured to host and run three separate web applications — **WordPress**, **osTicket**, and **ownCloud** — under the same Apache web server using subdirectories. WordPress is available at using PHP 8.1. OsTicket is accessible at /osticket using PHP 8.1. OwnCloud runs at /owncloud using PHP 7.4

4.0 Steps / Procedure

4.1 Setup the Ubuntu Server for WordPress/osTicket/ownCloud

The following steps were performed to set up the Ubuntu server on the **GPUonCloud** platform for hosting multiple web applications:

- ☐ Log in to the **GPUonCloud** dashboard using your user credentials.
- ☐ Navigate to the server deployment section and create a new instance.
- ☐ Choose **Ubuntu Server 20.04 LTS** as the operating system image.
- ☐ Select a configuration with sufficient resources (CPU, RAM, and storage) to handle multiple applications.
- ☐ Generate or assign an SSH key pair to securely access the server via terminal.
- ☐ Configure the network and firewall settings:
 - Allow **Port 22** for SSH access.
 - Allow **Port 80** for HTTP traffic.



4.2 Configure Apache Web Server

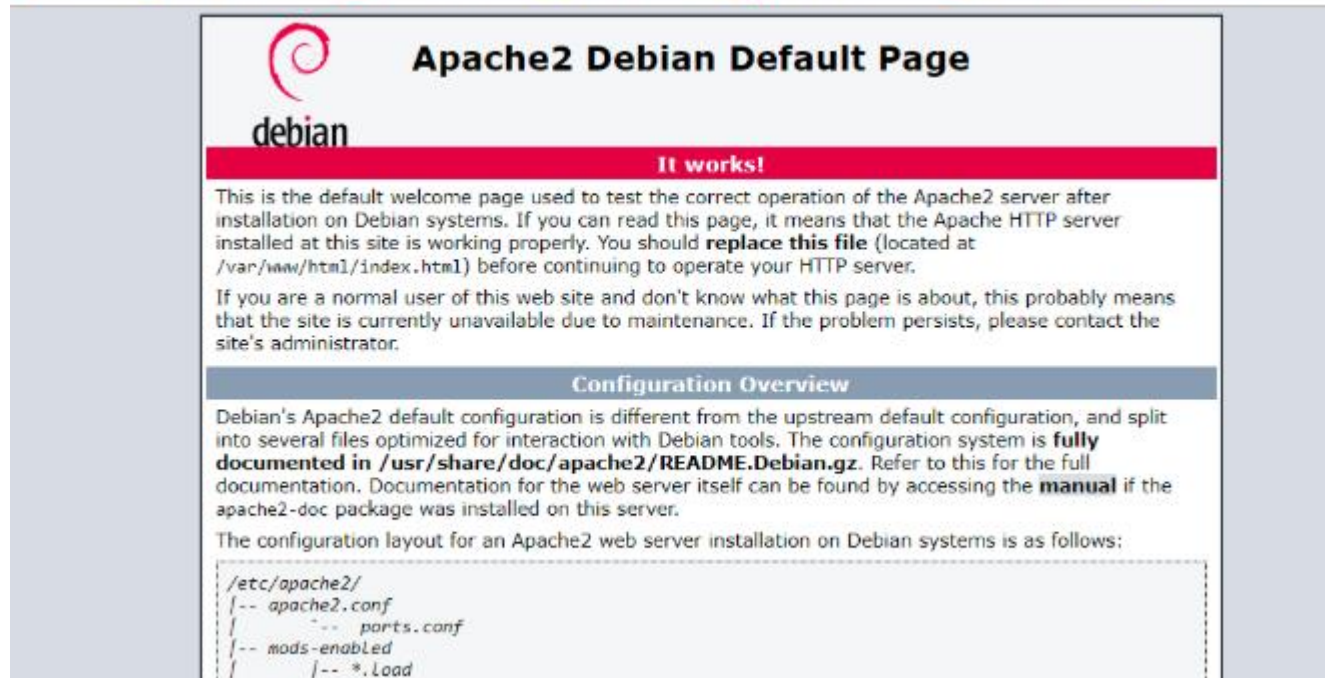
Install and configure Apache

```
sudo apt update
```

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

```
sudo systemctl enable apache2
```

```
sudo systemctl start apache2
```



4.3 Install PHP 8.1

Install PHP

```
apt install php php-mysql
```

```
vim /var/www/html/info.php
```


Append the following lines:

```
<?php
```

```
phpinfo();
```

```
?
```

Save and Exit. Open your browser :`https://ip-address/info.php`

PHP Version 8.1.33	
	
System	Linux node235909-bindu.in1.gpuoncloud.in 5.2.0 #1 SMP Mon Sep 30 15:36:27 MSK 2024 x86_64
Build Date	Jul 3 2025 16:15:48
Build System	Linux
Build Provider	Debian
Server API	FPM/FastCGI
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc/php/8.1/fpm
Loaded Configuration File	/etc/php/8.1/fpm/php.ini
Scan this dir for additional .ini files	/etc/php/8.1/fpm/conf.d
Additional .ini files parsed	/etc/php/8.1/fpm/conf.d/10-opcache.ini, /etc/php/8.1/fpm/conf.d/10-pdo.ini, /etc/php/8.1/fpm/conf.d/20-calendar.ini, /etc/php/8.1/fpm/conf.d/20-ctype.ini, /etc/php/8.1/fpm/conf.d/20-exif.ini, /etc/php/8.1/fpm/conf.d/20-fi.ini, /etc/php/8.1/fpm/conf.d/20-fileinfo.ini, /etc/php/8.1/fpm/conf.d/20-ftp.ini, /etc/php/8.1/fpm/conf.d/20-gettext.ini, /etc/php/8.1/fpm/conf.d/20-iconv.ini, /etc/php/8.1/fpm/conf.d/20-phar.ini, /etc/php/8.1/fpm/conf.d/20-posix.ini, /etc/php/8.1/fpm/conf.d/20-readline.ini, /etc/php/8.1/fpm/conf.d/20-shmop.ini, /etc/php/8.1/fpm/conf.d/20-sockets.ini, /etc/php/8.1/fpm/conf.d/20-sysvmsg.ini, /etc/php/8.1/fpm/conf.d/20-sysvsem.ini, /etc/php/8.1/fpm/conf.d/20-sysvshm.ini, /etc/php/8.1/fpm/conf.d/20-tokenizer.ini
PHP API	20210902
PHP Extension	20210902
Zend Extension	420210902
Zend Extension Build	API420210902.NTS
PHP Extension Build	API(20210902).NTS
Debug Build	no
Thread Safety	disabled
Zend Signal Handling	enabled
Zend Memory Manager	enabled
Zend Multibyte Support	disabled
Zend Max Execution Timers	disabled
IPv6 Support	enabled
DTrace Support	available, disabled
Registered PHP Streams	https, ftps, compress, zlib, php, file, gd, data, http, ftp, nhar

4.4 Configure Apache VirtualHost for Multiple apps

`sudo nano /etc/apache2/sites-available/000-default.conf`

```
Elastic VPS 2 : Web SSH x
Duplicate Session
GNU nano 6.2 /etc/apache2/sites-enabled/000-default.conf
VirtualHost *:80>

    ServerAdmin bindu@localhost
    DocumentRoot /var/www/html
    ServerName 103.217.221.2

    # Default PHP handler for root and info.php (PHP 8.1)
    <FilesMatch \.php$>
        SetHandler "proxy:unix:/run/php/php8.1-fpm.sock|fcgi://localhost/"
    </FilesMatch>

    # WordPress config (PHP 8.1)
    Alias /wordpress /var/www/html/wordpress
    <Directory /var/www/html/wordpress>
        Options Indexes FollowSymLinks
        AllowOverride All
        Require all granted
        <FilesMatch \.php$>
            SetHandler "proxy:unix:/run/php/php8.1-fpm.sock|fcgi://localhost/"
        </FilesMatch>
    </Directory>

</VirtualHost>

<FilesMatch \.php$>
    SetHandler "proxy:unix:/run/php/php8.1-fpm.sock|fcgi://localhost/"
</FilesMatch>
</Directory>

# ownCloud config (PHP 7.4)
Alias /owncloud /var/www/html/owncloud
<Directory /var/www/html/owncloud>
    Options Indexes FollowSymLinks
    AllowOverride All
    Require all granted
    <FilesMatch \.php$>
        SetHandler "proxy:unix:/run/php/php7.4-fpm.sock|fcgi://localhost/"
    </FilesMatch>
</Directory>

ErrorLog ${APACHE_LOG_DIR}/error.log
CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>
```

Restart Apache:

```
sudo systemctl restart apache2
```

4.3.1 Install & Create Database and User in MariaDB

```
apt install mariadb-server mariadb-client
```



```
mysql_secure_installation
```

Create WordPress Database

```
mysql -u root -p
```

```
CREATE DATABASE wordpress_db;
```

```
CREATE USER 'wp_user'@'localhost' IDENTIFIED BY 'password';
```

Grant privileges to the user Next, grant the user permissions to access the database

```
GRANT ALL ON wordpress_db.* TO 'wp_user'@'localhost' IDENTIFIED BY 'password';
```

```
FLUSH PRIVILEGES;
```

```
Exit;
```

4.4 Install WordPress in / Directory

Go to your temp directory and download the latest WordPress File

```
cd /tmp && wget https://wordpress.org/latest.tar.gz
```

```
tar -xvf latest.tar.gz
```

Copy the wordpress folder to `/var/www/html/` path.

```
cp -R wordpress /var/www/html/
```



Run the command below to change ownership of 'wordpress' directory.

```
chown -R www-data:www-data /var/www/html/wordpress/
```

change File permissions of the WordPress folder.

```
chmod -R 755 /var/www/html/wordpress/
```

Create 'uploads' directory.

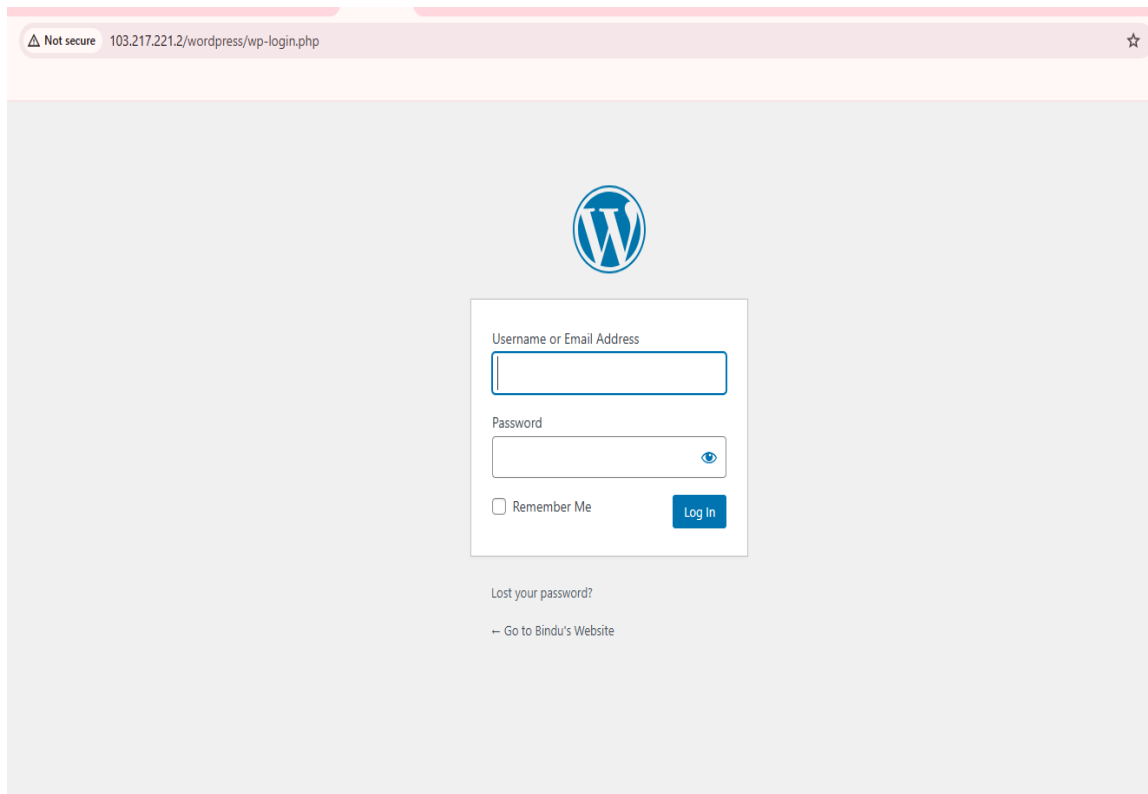
```
$ mkdir /var/www/html/wordpress/wp-content/uploads
```

Finally, change permissions of 'uploads' directory.

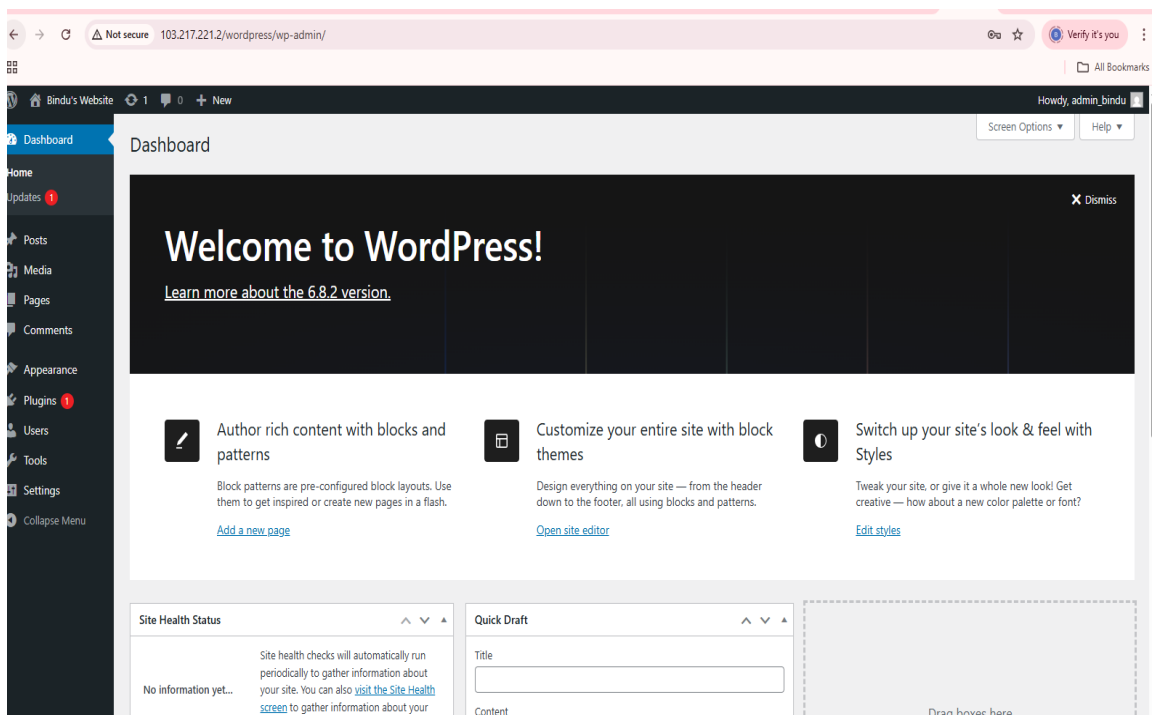
```
chown -R www-data:www-data /var/www/html/wordpress/wp-content/uploads/
```

Open your browser and go to the server's URL. In my case it's

```
https://server-ip/wordpress
```



Provide your login credentials and hit 'Login'.



4.5 Install osTicket in /osticket Directory

First, change the directory to Apache web root and download the latest osTicket version inside that directory.

```
cd /var/www/html  
curl -s https://api.github.com/repos/osTicket/osTicket/releases/latest | grep bro
```

Next, unzip the downloaded file.

```
unzip osTicket*.zip -d osTicket
```

Next, copy the osTicket sample configuration file.

```
cp /var/www/html/osTicket/upload/include/ost-sampleconfig.php /var/www/html/osTicket
```

Then, set the necessary permissions and ownership to the osTicket directory.

```
chown -R www-data:www-data /var/www/html/osTicket/  
chmod -R 775 /var/www/html/osTicket/
```

Configure Apache for osTicket

Next, create an Apache virtual host configuration file for osTicket.

```
nano /etc/apache2/sites-available/osticket.conf
```

Add the following configuration:

```
<VirtualHost *:80>
ServerName osticket.example.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>
```

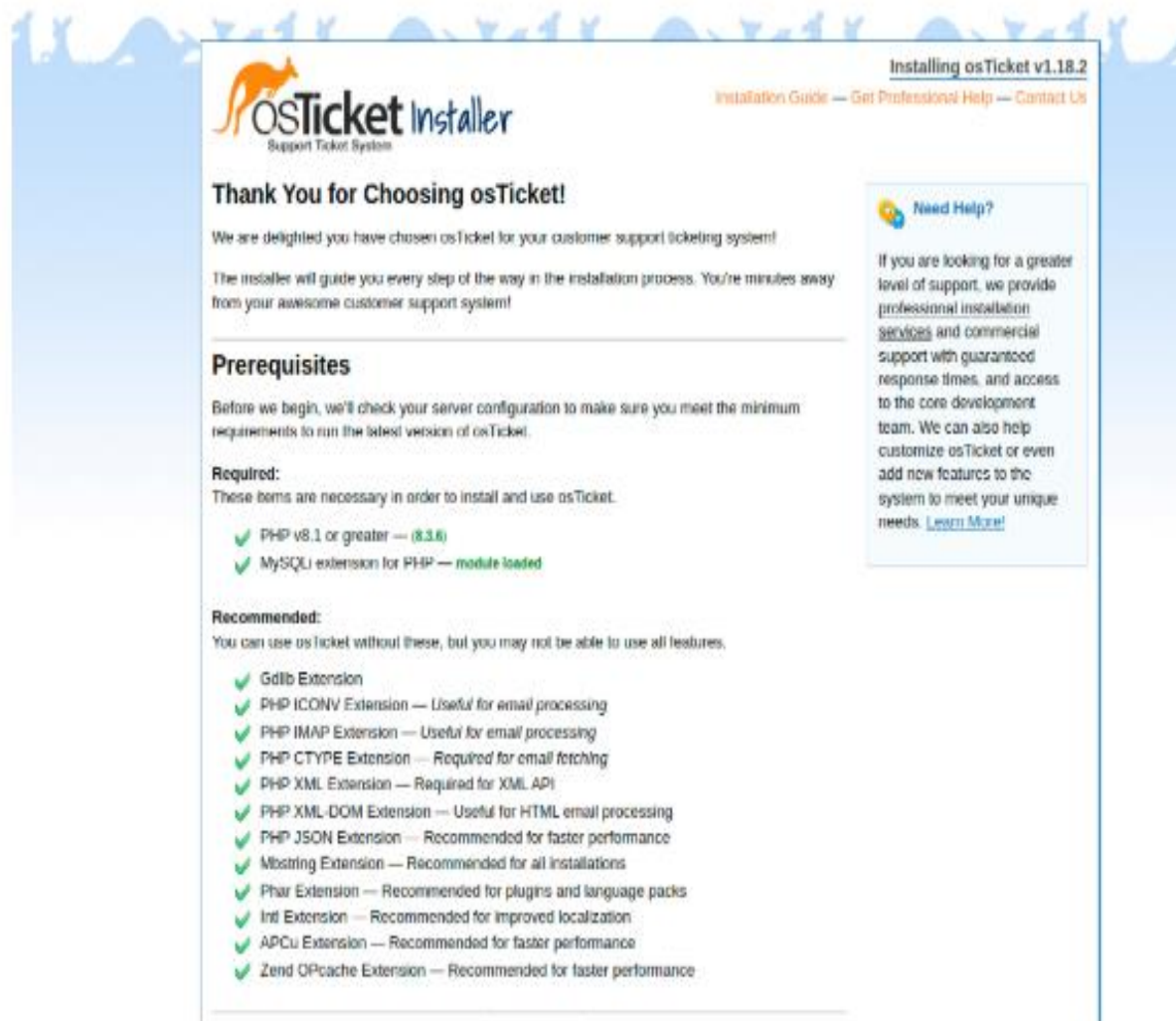
Save and close the file, activate the Apache virtual host, and enable the Apache rewrite module.

```
a2enmod rewrite
a2ensite osticket.conf
```

Finally, restart the Apache service to apply the changes.

```
systemctl reload apache2
```

Now, open your web browser and access the osTicket using the URL <http://osticket.example.com>. You will see the osTicket prerequisites page.



Installing osTicket v1.18.2
[Installation Guide](#) — [Get Professional Help](#) — [Contact Us](#)

osTicket Installer
Support Ticket System

Thank You for Choosing osTicket!

We are delighted you have chosen osTicket for your customer support ticketing system!

The installer will guide you every step of the way in the installation process. You're minutes away from your awesome customer support system!

Prerequisites

Before we begin, we'll check your server configuration to make sure you meet the minimum requirements to run the latest version of osTicket.

Required:
These items are necessary in order to install and use osTicket.

- ✓ PHP v8.1 or greater — (8.3.6)
- ✓ MySQLi extension for PHP — [module loaded](#)

Recommended:
You can use osTicket without these, but you may not be able to use all features.

- ✓ Gdlib Extension
- ✓ PHP ICONV Extension — [Useful for email processing](#)
- ✓ PHP IMAP Extension — [Useful for email processing](#)
- ✓ PHP CTYPE Extension — [Required for email fetching](#)
- ✓ PHP XML Extension — [Required for XML API](#)
- ✓ PHP XML-DOM Extension — [Useful for HTML email processing](#)
- ✓ PHP JSON Extension — [Recommended for faster performance](#)
- ✓ Mbstring Extension — [Recommended for all installations](#)
- ✓ Phar Extension — [Recommended for plugins and language packs](#)
- ✓ Intl Extension — [Recommended for improved localization](#)
- ✓ APCu Extension — [Recommended for faster performance](#)
- ✓ Zend OPcache Extension — [Recommended for faster performance](#)

Need Help?

If you are looking for a greater level of support, we provide [professional installation services](#) and commercial support with guaranteed response times, and access to the core development team. We can also help customize osTicket or even add new features to the system to meet your unique needs. [Learn More!](#)

Click on **Continue**. You will see the osTicket configuration page.

osTicket v1.18.2
Installing osTicket v1.18.2
Installation Guide — Get Professional Help — Contact Us

osTicket Basic Installation

Please fill out the information below to continue your osTicket installation. All fields are required.

System Settings
The URL of your helpdesk, its name, and the default system email address

Helpdesk URL:

Helpdesk Name:

Default Email:

Primary Language:

Admin User
Your primary administrator account - you can add more users later.

First Name:

Last Name:

Email Address:

Username:

Password:

Retype Password:

Provide your helpdesk name, URL, admin username, password, email, and database credentials, then click on **Install Now**. Once the osTicket is installed, you will see the following page.

osTicket v1.18.2
Installing osTicket v1.18.2
Installation Guide — Get Professional Help — Contact Us

Congratulations!

Your osTicket installation has been completed successfully. Your next step is to fully configure your new support ticket system for use, but before you get to it please take a minute to cleanup.

Config file permission:
Change permission of `ost-config.php` to remove write access as shown below.

- **CLI:**
`chmod 0644 include/ost-config.php`
- **Windows PowerShell:**
`icacis include/ost-config.php /reset`
- **FTP:**
Using WS_FTP this would be right hand clicking on the file, selecting `chmod`, and then remove write access
- **Cpanel:**
Click on the file, select change permission, and then remove write access.

Below, you'll find some useful links regarding your installation.

Your osTicket URL:
<http://osticket.example.com/>

Your Staff Control Panel:
<http://osticket.example.com/scp>

osTicket Forums:
<https://forum.osticket.com/>

osTicket Documentation:
<https://docs.osticket.com/>

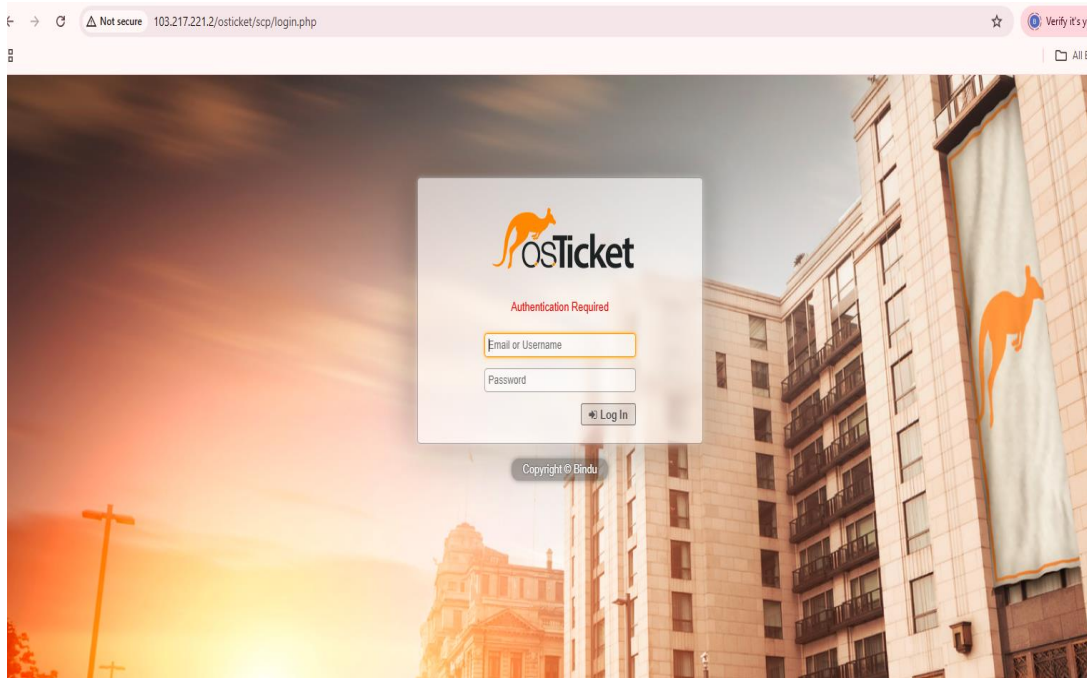
PS: Don't just make customers happy, make happy customers!

What's Next?

Post-Install Setup: You can now log in to [Admin Panel](#) with the username and password you created during the install process. After a successful log in, you can proceed with post-install setup. For complete and upto date guide see [osTicket wiki](#)

Commercial Support Available: Don't let technical problems impact your osTicket implementation. Get guidance and hands-on expertise to address unique challenges and make sure your osTicket runs smoothly, efficiently, and securely. [Learn More!](#)

Click on **Your Staff Control Panel**. You will see the osTicket login page.



4.6 Install Owncloud in /owncloud Directory

```
cd /var/www/html
wget https://download.owncloud.org/community/owncloud-complete-202407.tar.bz2
sudo tar -xvjf owncloud-complete-202407.tar.bz2
sudo mv owncloud /var/www/html/
```

Install PHP 7.4:

```
sudo apt install php7.4 php7.4-fpm php7.4-mysql php7.4-curl php7.4-gd php7.4-mbstring php7.4-xml
php7.4-zip -y
```

Configuring the owncloud:

```
$ sudo nano /etc/apache2/sites-enabled/ server_domain_or_IP .conf
```



```

GNU nano 6.2 /e
VirtualHost *:80>

    ServerAdmin Bindu@localhost

    ServerName 103.217.221.2

    Alias /owncloud /var/www/html/owncloud
    <Directory /var/www/html/owncloud>
        Options Indexes FollowSymLinks
        AllowOverride All
        Require all granted
        <FilesMatch \.php$>
            SetHandler "proxy:unix:/run/php/php7.4-fpm.sock|fcgi://localhost/"
        </FilesMatch>
    </Directory>
    ErrorLog ${APACHE_LOG_DIR}/owncloud_error.log
    CustomLog ${APACHE_LOG_DIR}/owncloud_access.log combined

/VirtualHost>

```

```
sudo systemctl reload apache2
```

Configuring the MySQL Database

```
sudo mysql
```

```
mysql -u root -p
```

```
mysql> CREATE DATABASE owncloud;
```

```
GRANT ALL ON owncloud.* to 'owncloud'@'localhost' IDENTIFIED BY 'owncloud_database_password';
```

```
mysql> FLUSH PRIVILEGES;
```

```
mysql> exit
```

https:// server_domain_or_IP

Not secure 103.217.221.2/owncloud/index.php/login

ownCloud

Username or email

Username or email

Password

Password

Login

On your first login, a screen will appear where you can download applications to sync your files on various devices

Not secure 103.217.221.2/owncloud/index.php/apps/files/?dir=/&fileid=3

ownCloud 10.15.3 is available. Get more information on how to update. There were problems with the code integrity check. More information.

Files

All files

Favorites

Shared with you

Shared with others

Shared by link

Tags

Name	Size	Modified
Documents	35 KB	2 days ago
Learn more about ownCloud	3.5 MB	2 days ago
Photos	988 KB	2 days ago
3 folders	4.5 MB	