

Install Wordpress, Owncloud and OsTicket.

For Installing Wordpress with required PHP, Apache and Mysql.

Apache:

```
root@node215353-env-4578806:~# apache2 -v
Server version: Apache/2.4.52 (Ubuntu)
Server built: 2024-07-17T18:57:26
root@node215353-env-4578806:~#
```

MySql:

```
apt install mysql-server -y
systemctl start mysql
systemctl enable mysql
mysql -u root -p
```

```
root@node215353-env-4578806:~# mysql -v
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 14
Server version: 8.0.40-0ubuntu0.22.04.1 (Ubuntu)

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affiliates. Other names may be trademarks of their respective
owners.
```

Created database, user and password

```
CREATE DATABASE wordpress_db;
CREATE USER 'wordpress_user'@'localhost' IDENTIFIED BY '123456';
GRANT ALL PRIVILEGES ON wordpress_db.* TO 'wordpress_user'@'localhost';
FLUSH PRIVILEGES;
```

```
mysql> show databases
-> ;
-----
show databases
-----
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| osticket |
| owncloud |
| performance_schema |
| sys |
| wordpress_db |
+-----+
7 rows in set (0.00 sec)
```

```
SELECT user, host FROM mysql.user
-----
+-----+-----+
| user | host |
+-----+-----+
| debian-sys-maint | localhost |
| mysql.infoschema | localhost |
| mysql.session | localhost |
| mysql.sys | localhost |
| osticketuser | localhost |
| ownclouduser | localhost |
| root | localhost |
| wordpress_user | localhost |
| wp24_user | localhost |
+-----+-----+
9 rows in set (0.00 sec)

mysql>
```

Download Wordpress files

```
wget https://wordpress.org/latest.tar.gz
tar -xvzf latest.tar.gz
mv wordpress/* /var/www/html/
chown -R www-data:www-data /var/www/html/
chmod -R 755 /var/www/html/
```

Copy configuration for wp-config-sample.php to wp-config.php

```
cp /var/www/html/wordpress/wp-config-sample.php
/var/www/html/wordpress/wp-config.php
```

Giving Database attributes in wp-config

```
// ** Database settings - You can get this info from your web host ** //
/** The name of the database for WordPress */
define( 'DB_NAME', 'wordpress_db' );

/** Database username */
define( 'DB_USER', 'wp24_user' );

/** Database password */
define( 'DB_PASSWORD', '123456' );

/** Database hostname */
define( 'DB_HOST', 'localhost' );

/** Database charset to use in creating database tables. */
define( 'DB_CHARSET', 'utf8' );

/** The database collate type. Don't change this if in doubt. */
define( 'DB_COLLATE', '' );
```

Restarting Apache server

systemctl restart apache2

```
root@node215353-env-4578806:/var/www/html/wordpress# systemctl restart apache2
root@node215353-env-4578806:/var/www/html/wordpress# systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Active: active (running) since Wed 2024-12-11 07:01:11 UTC; 12s ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 3535 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
  Main PID: 3539 (apache2)
    Tasks: 6 (limit: 19660)
   Memory: 17.2M
   CGroup: /system.slice/apache2.service
           └─3539 /usr/sbin/apache2 -k start
             └─3540 /usr/sbin/apache2 -k start
               └─3541 /usr/sbin/apache2 -k start
                 └─3542 /usr/sbin/apache2 -k start
                   └─3543 /usr/sbin/apache2 -k start
                     └─3544 /usr/sbin/apache2 -k start

Dec 10 17:52:10 node215353-env-4578806.in1.gpuoncloud.in systemd[1]: Stopping The Apache HTTP Server...
Dec 10 17:52:10 node215353-env-4578806.in1.gpuoncloud.in systemd[1]: apache2.service: Deactivated successfully.
Dec 10 17:52:10 node215353-env-4578806.in1.gpuoncloud.in systemd[1]: Stopped The Apache HTTP Server.
Dec 11 07:01:11 node215353-env-4578806.in1.gpuoncloud.in systemd[1]: Starting The Apache HTTP Server...
Dec 11 07:01:11 node215353-env-4578806.in1.gpuoncloud.in systemd[1]: Started The Apache HTTP Server.
```

Creating and Configuring Apache files

cd /etc/apache2/sites-available

Vim wordpress.conf

```
1 VirtualHost *:443>
2
3     ServerAdmin wp@localhost
4
5     ServerName prwp.gpuoncloud.com
6
7     ServerAlias www.prwp.gpuoncloud.com
8     DocumentRoot /var/www/html/wordpress
9
10    <Directory /var/www/html/wordpress>
11
12        Options FollowSymLinks
13
14        AllowOverride All
15
16        DirectoryIndex index.php
17
18        Require all granted
19
20    </Directory>
21
22    ErrorLog ${APACHE_LOG_DIR}/error.log
23
24    CustomLog ${APACHE_LOG_DIR}/access.log combined
25
26    SSLCertificateFile /etc/letsencrypt/live/proc.gpuoncloud.com/fullchain.pem
27    SSLCertificateKeyFile /etc/letsencrypt/live/proc.gpuoncloud.com/privkey.pem
28    Include /etc/letsencrypt/options-ssl-apache.conf
29 </VirtualHost>
30
31
```

Enabling Wordpress.conf file while Disabling default page and rewrite module.

a2ensite wordpress.conf

a2dissite 000-default.conf

a2enmod rewrite

Restart Apache for refreshing server

systemctl restart apache2

Completed WordPress Installation

Now Installing Owncloud.

For installing Owncloud, need compatible version of php
Creating Database, User and password.

```
CREATE DATABASE owncloud;  
CREATE USER 'ownclouduser'@'localhost' IDENTIFIED BY '123456';  
GRANT ALL PRIVILEGES ON owncloud.* TO 'ownclouduser'@'localhost';  
FLUSH PRIVILEGES;
```

```
mysql> show databases  
-> ;  
-----  
show databases  
-----  
+-----+  
| Database |  
+-----+  
| information_schema |  
| mysql |  
| osticket |  
| owncloud |  
| performance_schema |  
| sys |  
| wordpress_db |  
+-----+  
7 rows in set (0.00 sec)
```

```
SELECT user, host FROM mysql.user  
-----  
+-----+-----+  
| user | host |  
+-----+-----+  
| debian-sys-maint | localhost |  
| mysql.infoschema | localhost |  
| mysql.session | localhost |  
| mysql.sys | localhost |  
| osticketuser | localhost |  
| ownclouduser | localhost |  
| root | localhost |  
| wordpress_user | localhost |  
| wp24_user | localhost |  
+-----+-----+  
9 rows in set (0.00 sec)  
mysql>
```

Now installing Owncloud

```
cd /var/www/html
```

```
sudo wget https://download.owncloud.com/server/releases/owncloud-10.0.0.zip
```

```
unzip owncloud-10.0.0.zip
```

```
root@node215353-env-4578806:~# cd /var/www  
root@node215353-env-4578806:/var/www# ls  
html osticket osTicket-v1.15.6.zip owncloud owncloud-10.10.0.zip  
root@node215353-env-4578806:/var/www#
```

Changing Permission the files

```
sudo chown -R www-data:www-data /var/www/owncloud
```

```
sudo chmod -R 755 /var/www/owncloud
```

#Owncloud Installation

Creating and Configuring Apache files

/etc/apache2/sites-available/owncloud.conf

```
1 <VirtualHost *:80>
2
3     ServerAdmin admin@localhost
4
5     ServerName proc.gpuoncloud.com
6
7     ServerAlias www.proc.gpuoncloud.com
8
9     DocumentRoot /var/www/owncloud
10
11     <Directory /var/www/owncloud>
12
13         Options +FollowSymLinks
14
15         AllowOverride All
16
17         Require all granted
18     </Directory>
19
20     ErrorLog ${APACHE_LOG_DIR}/owncloud_error.log
21
22     CustomLog ${APACHE_LOG_DIR}/owncloud_access.log combined
23
24
25
26     # Redirect www.proc.gpuoncloud.com to proc.gpuoncloud.com
27
28     RewriteEngine on
29
30     RewriteCond %{SERVER_NAME} =www.proc.gpuoncloud.com
31
32     RewriteRule ^ http://proc.gpuoncloud.com${REQUEST_URI} [END,NE,R=permanent]
33
34
35     RewriteCond %{SERVER_NAME} =www.proc.gpuoncloud.com [OR]
36     RewriteCond %{SERVER_NAME} =proc.gpuoncloud.com
37     RewriteRule ^ https://%{SERVER_NAME}${REQUEST_URI} [END,NE,R=permanent]
38 </VirtualHost>
39
-- INSERT (paste) --
```

Enabling Wordpress.conf file while Disabling default page and rewrite module.

a2ensite owncloud.conf

a2enmod rewrite

Restart Apache for refreshing server

Restart the apache Server

```
root@node215353-env-4578806:/var/www/html/wordpress# systemctl restart apache2
root@node215353-env-4578806:/var/www/html/wordpress# systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Active: active (running) since Wed 2024-12-11 07:01:11 UTC; 12s ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 3535 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
  Main PID: 3539 (apache2)
    Tasks: 6 (limit: 19660)
   Memory: 17.2M
    CGroup: /system.slice/apache2.service
            └─3539 /usr/sbin/apache2 -k start
              └─3540 /usr/sbin/apache2 -k start
                └─3541 /usr/sbin/apache2 -k start
                  └─3542 /usr/sbin/apache2 -k start
                    └─3543 /usr/sbin/apache2 -k start
                      └─3544 /usr/sbin/apache2 -k start

Dec 10 17:52:10 node215353-env-4578806.in1.gpuoncloud.in systemd[1]: Stopping The Apache HTTP Server...
Dec 10 17:52:10 node215353-env-4578806.in1.gpuoncloud.in systemd[1]: apache2.service: Deactivated successfully.
Dec 10 17:52:10 node215353-env-4578806.in1.gpuoncloud.in systemd[1]: Stopped The Apache HTTP Server.
Dec 11 07:01:11 node215353-env-4578806.in1.gpuoncloud.in systemd[1]: Starting The Apache HTTP Server...
Dec 11 07:01:11 node215353-env-4578806.in1.gpuoncloud.in systemd[1]: Started The Apache HTTP Server.
```

Completed Owncloud Installation

Creating Database , User and password.

```
CREATE DATABASE osticket;  
CREATE USER 'osticketuser'@'localhost' IDENTIFIED BY '123456';  
GRANT ALL PRIVILEGES ON osticket.* TO 'osticketuser'@'localhost';  
FLUSH PRIVILEGES;
```

```
mysql> show databases  
-> ;  
  
show databases  
-----  
+-----+  
| Database |  
+-----+  
| information_schema |  
| mysql |  
| osticket |  
| owncloud |  
| performance_schema |  
| sys |  
| wordpress_db |  
+-----+  
7 rows in set (0.00 sec)
```

```
SELECT user, host FROM mysql.user  
-----  
+-----+-----+  
| user | host |  
+-----+-----+  
| debian-sys-maint | localhost |  
| mysql.infoschema | localhost |  
| mysql.session | localhost |  
| mysql.sys | localhost |  
| osticketuser | localhost |  
| ownclouduser | localhost |  
| root | localhost |  
| wordpress_user | localhost |  
| wp24_user | localhost |  
+-----+-----+  
9 rows in set (0.00 sec)  
  
mysql>
```

Downloading the Osticket application.

```
cd /var/www/
```

```
wget
```

<https://github.com/osTicket/osTicket/releases/download/v1.17.2/osTicket-v1.17.2.zip>

```
unzip osTicket-v1.17.2.zip -d osticket
```

```
root@node215353-env-4578806:~# cd /var/www  
root@node215353-env-4578806:/var/www# ls  
html osticket osTicket-v1.15.6.zip owncloud owncloud-10.10.0.zip  
root@node215353-env-4578806:/var/www#
```

Renaming the configuration file.

```
mv ost-sampleconfig.php ost-config.php
```

Changing Permission the files

```
sudo chown -R www-data:www-data /var/www/osticket
```

```
sudo chmod 0666 /var/www/osticket/include/ost-config.php
```

Configure Apache for osTicket

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

```
1 <VirtualHost *:80>
2
3     ServerName prot.gpuoncloud.com
4
5     Redirect permanent / https://prot.gpuoncloud.com/
6
7 RewriteEngine on
8 RewriteCond %{SERVER_NAME} =prot.gpuoncloud.com
9 RewriteRule ^ https://%{SERVER_NAME}%{REQUEST_URI} [END,NE,R=permanent]
10 </VirtualHost>
11
12 <VirtualHost *:443>
13
14     ServerAdmin admin@localhost
15
16     ServerName prot.gpuoncloud.com
17
18     DocumentRoot /var/www/osticket/upload
19
20     <Directory /var/www/osticket/upload>
21
22         Options +FollowSymLinks
23
24         AllowOverride All
25
26         Require all granted
27
28     </Directory>
29
30
31
32     ErrorLog ${APACHE_LOG_DIR}/osticket_error.log
33
34     CustomLog ${APACHE_LOG_DIR}/osticket_access.log combined
35
36
37 SSLCertificateFile /etc/letsencrypt/live/prot.gpuoncloud.com/fullchain.pem
38 SSLCertificateKeyFile /etc/letsencrypt/live/prot.gpuoncloud.com/privkey.pem
39 Include /etc/letsencrypt/options-ssl-apache.conf
40 </VirtualHost>
"osticket.conf" 40L, 877B
```

Enabling Wordpress.conf file while Disabling default page and rewrite module.

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

Restart Apache for refreshing server

```
systemctl restart apache2
```

```
root@node215353-env-4578806:/var/www/html/wordpress# systemctl restart apache2
root@node215353-env-4578806:/var/www/html/wordpress# systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Active: active (running) since Wed 2024-12-11 07:01:11 UTC; 12s ago
     Docs: https://httpd.apache.org/docs/2.4/
  Process: 3535 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
 Main PID: 3539 (apache2)
    Tasks: 6 (limit: 19660)
   Memory: 17.2M
    CGroup: /system.slice/apache2.service
            └─3539 /usr/sbin/apache2 -k start
              └─3540 /usr/sbin/apache2 -k start
                └─3541 /usr/sbin/apache2 -k start
                  └─3542 /usr/sbin/apache2 -k start
                    └─3543 /usr/sbin/apache2 -k start
                      └─3544 /usr/sbin/apache2 -k start

Dec 10 17:52:10 node215353-env-4578806.in1.gpuoncloud.in systemd[1]: Stopping The Apache HTTP Server...
Dec 10 17:52:10 node215353-env-4578806.in1.gpuoncloud.in systemd[1]: apache2.service: Deactivated successfully.
Dec 10 17:52:10 node215353-env-4578806.in1.gpuoncloud.in systemd[1]: Stopped The Apache HTTP Server.
Dec 11 07:01:11 node215353-env-4578806.in1.gpuoncloud.in systemd[1]: Starting The Apache HTTP Server...
Dec 11 07:01:11 node215353-env-4578806.in1.gpuoncloud.in systemd[1]: Started The Apache HTTP Server.
```

Completed OsTicket Installation

Errors

I installed the latest version of PHP using the command `apt install php-latest`. However, this version was incompatible with OwnCloud. To ensure compatibility with OwnCloud 10, I downgraded PHP to version 7 for smooth operation."