Steps & Command for Installation of Own Cloud

1. Update Ubuntu 22.04

First, update your system to its latest state by running the below-given command:

sudo apt update &&sudo apt upgrade

2. Install Apache

We need an Apache web server, PHP, and MySQL stack on our system to install OwnCloud on Ubuntu 22.04 server.

sudo apt install apache2

To make sure the webserver service is enabled in the background.

sudosystemctl enable --now apache2

To check status:

systemctl status apache2 --no-page -1

```
h2s@h2s-virtual-machine:~/Downloads$ systemctl status apache2 --no-page -l
apache2.service - The Apache HTTP Server
      Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
      Active: active (running) since Wed 2022-06-01 21:10:02 IST; 30min ago
        Docs: https://httpd.apache.org/docs/2.4/
     Process: 46676 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
   Main PID: 46680 (apache2)
       Tasks: 55 (limit: 4588)
      Memory: 10.9M
         CPÚ: 364ms
      CGroup: /system.slice/apache2.service
                 -46680 /usr/sbin/apache2 -k start
                46681 /usr/sbin/apache2 -k start
46682 /usr/sbin/apache2 -k start
Jun 01 21:10:02 h2s-virtual-machine systemd[1]: Starting The Apache HTTP Server...
Jun 01 21:10:02 h2s-virtual-machine apachectl[46679]: AH00558: apache2: Could not reliably determine the s fully qualified domain name, using 127.0.1.1. Set the 'ServerName' directive globally to suppress this
Jun 01 21:10:02 h2s-virtual-machine systemd[1]: Started The Apache HTTP Server.
```

3. Install PHP and required extensions

The PHP version available to install using the default standard repository of Ubuntu 22.04 is 8.x, however, while doing this article OwnCloud doesn't support PHP 8.0, hence here we are installing PHP7.4 using Ondrej PPA repo.

To have the required version of PHP, add the Ondrej repository:

sudo add-apt-repository ppa:ondrej/php

Run system update command:

sudo apt update

Install required extensions:

sudo apt install php7.4 php7.4-{opcache,gd,curl,mysqlnd,intl,json,ldap,mbstring,mysqlnd,xml,zip}

sudo apt-get install php8.0-gd sudo apt-get install mysql-server sudo service apache2 restart

Secure MySQL installation

Next, secure your MySQL database server by creating a new root password and removing the demo database, users, and limited remote access.

Login to MySQL

sudo mysql

Change the root user password for MySQL to whatever you want, however, don't forget to replace Mypassword@123 in the given command with the password you want to set.

ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password by 'MyPassword@123';

exit:

Run command to secure MySQL installation:

sudo mysql_secure_installation

The script will ask these questions.

Enter the password for user root: type your set password and then press **ENTER**.

Change the password for root? Press N, then **ENTER**.

Remove anonymous users? Press Y, then ENTER.

Disallow root login remotely? Press Y, then ENTER.

Remove test database and access to it? Press Y, then ENTER.

Reload privilege tables now? Press Y, then ENTER.

Create Database for OwnCloud

To store the data generated by the OwnCloud, we need a Database server, here we are using MySQL. So, let's create a Database for OwnCloud using the given commands:

Login to MySQL DB server

sudo mysql -u root -p

Note: Use the password to log in that you have created while securing MySQL.

Follow the command to create a new DB. However, don't forget to replace **new_user** with whatever name you want to give to your Database user and in the same way- **new_db** with a name for Database and **your_password** for the password.

CREATE DATABASE new_db;

CREATE USER 'new_user'@'localhost' IDENTIFIED BY 'your_password';

GRANT ALL PRIVILEGES ON new_db.* TO 'new_user'@'localhost';

FLUSH PRIVILEGES;

Exit:

6. Download ownCloud on Ubuntu 22.04 LTS

Although OwnCloud is open-source software, not available to install using the default package manager. Therefore, we need to download the latest version of the ownCloud file manually. Go to your terminal and run the given commands.

cd/tmp

wget https://download.owncloud.com/server/stable/owncloud-complete-latest.tar.bz2

Now extract the downloaded file:

tar -xvf owncloud-complete-latest.tar.bz2

Move the extracted folder to the web root directory.

sudo mv owncloud /var/www/html/

Change the ownership of the ownCloud directory:

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

7. Configure ownCloud Apache configuration

To serve Owncloud files efficiently, let's configured the virtual host configuration file on the Apache web server for it.

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

Copy-paste the following lines:

<VirtualHost *:80>

ServerAdmin admin@example.com

DocumentRoot /var/www/html/owncloud

ServerName example.com

<Directory /var/www/html/owncloud>

Options FollowSymlinks

AllowOverride All

Require all granted

</Directory>

ErrorLog \${APACHE_LOG_DIR}/example.com_error.log

CustomLog \${APACHE_LOG_DIR}/your-domain.com_access.log combined

</VirtualHost>

Save the file using **Ctlr+O**, hit the **Enter** key, and then exit the text editor using **Ctlr+X**.

8. Install OwnCloud on Ubuntu 22.04

Finally, after following all the above-given steps, open your system's browser and point it to the server IP address or domain address where you have installed the OwnCloud.

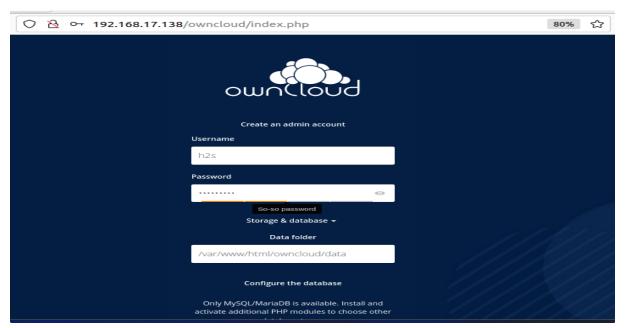
Example:

http://server-ip/owncloud
or

http://domain.com/owncloud

9. Create an Admin account

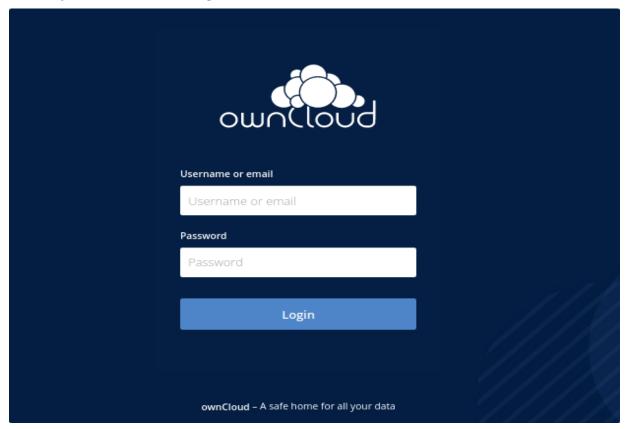
The first thing we have to do as we get the web interface of Owncloud is to create an Admin account.



After that, scroll down and add the details of the Database you have created for OwnCloud and click on the "Finish Setup".

8	\circ	192.168.17.138/owncloud/index.php	8
Configure the database			
		Only MySQL/MariaDB is available. Install and activate additional PHP modules to choose other database types. For more details check out the documentation. >	
		Database user	
		new_user	
		Database password	
		•	
		Database name	
		new_db	
		Database host	
		localhost	
		Please specify the port number along with the host name (e.g., localhost: 5432).	
		Finish setup	

Wait for a few seconds and you will have the Login interface. Use the Admin account details you have created to get the Dashboard.



10. OwnCloud Dashboard

Using the Dashboard of Owncloud, we can upload the files and share them with others if we want.

