



شرکت توسعه ارتباطات پردیس پارس

# ownCloud

The last file sharing platform you'll ever need.

# Explore the Features:

- Click Sync and Share Your Data, with Ease
- A Safe Home for All Your Data
- Your Data is Where You Are
- Community Driven
- Access Everything You Care About
- Share With anybody on Your Terms
- Mobile and Desktop Syncing
- External Storage
- Encryption & Security
- ...



# Trusted by thousands of organizations worldwide:



# System Requirements:

- Operating System
  - Ubuntu 16.04 and 18.04
  - Debian 7 and 8
  - Red Hat Enterprise Linux 6 and 7
  - Centos Linux 6 and 7
  - Fedora 27 and 28
  - SUSE Linux Enterprise Server 12 with SP1, SP2 and SP3
  - openSUSE Tumbleweed and Leap 15.0, 42.3
  - Ubuntu 16.04 and 18.04
- Database
  - MySQL or MariaDB 5.5+
  - Oracle 11g
  - PostgreSQL
  - SQLite
- Web server
  - Apache 2.4
- PHP Runtime
  - 5.6, 7.0, 7.1 & 7.2



# Install OwnCloud on Ubuntu 18.04 LTS roadmap:

- Install Apache2 HTTP Server
- Install MariaDB Server
- Secure MariaDB server
- Install PHP and Related Modules
- Update and upgrade to PHP and Related Modules
- Create OwnCloud Database
- Download Latest OwnCloud Release
- Configure Apache2
- Enable the OwnCloud and Rewrite Module
- Basic configure local owncloud



# Install Apache2 HTTP Server:

- Install Apache2 HTTP Server
  - ❑ `sudo apt install apache2`
- After installing Apache2, run the commands below to disable directory listing.
  - ❑ `sudo sed -i "s/Options Indexes FollowSymLinks/Options FollowSymLinks/" /etc/apache2/apache2.conf`
- After install Apache2, the commands below can be used to stop, start and enable Apache2 service to always start up with the server boots.
  - ❑ `sudo systemctl stop apache2.service`
  - ❑ `sudo systemctl start apache2.service`
  - ❑ `sudo systemctl enable apache2.service`



# Install MariaDB Server:

- Install MariaDB Server
  - ❑ `sudo apt-get install mariadb-server mariadb-client -y`
- stop, start and enable MariaDB service to always start up when the server boots.
  - ❑ `sudo systemctl stop mariadb.service`
  - ❑ `sudo systemctl start mariadb.service`
  - ❑ `sudo systemctl enable mariadb.service`
- After that, run the commands below to secure MariaDB server
  - ❑ `sudo mysql_secure_installation`
- Restart MariaDB server
  - ❑ `sudo systemctl restart mariadb.service`



# Install PHP and Related Modules:

- Run the commands below to add a third party repository and upgrade to PHP 7.1
  - ❑ `sudo apt-get install software-properties-common -y`
  - ❑ `sudo add-apt-repository ppa:ondrej/php`
- Then update and upgrade to PHP 7.1
  - `sudo apt update`
- Run the commands below to install PHP 7.1 and related modules..
  - ❑ `sudo apt install php7.1 libapache2-mod-php7.1 php7.1-common php7.1-mbstring php7.1-xmlrpc php7.1-soap php7.1-apcu php7.1-smbclient php7.1-ldap php7.1-redis php7.1-gd php7.1-xml php7.1-intl php7.1-json php7.1-imagick php7.1-mysql php7.1-cli php7.1-mcrypt php7.1-ldap php7.1-zip php7.1-curl -y`





# Create OwnCloud Database:

- To connect to MariaDB server, run the commands below
  - `sudo mysql -u root -p`
- Then create a database called owncloud
  - `CREATE DATABASE owncloud;`
- Create a database user called ownclouduser with new password
  - `CREATE USER 'ownclouduser'@'localhost' IDENTIFIED BY 'password_here' ;`
- Then grant the user full access to the database.
  - `GRANT ALL ON owncloud.* TO 'ownclouduser'@'localhost' IDENTIFIED BY 'password_here' WITH GRANT OPTION;`
- Now, save your changes and exit.
  - `FLUSH PRIVILEGES;`
  - `EXIT;`



# Download Latest OwnCloud Release:

- Download Latest OwnCloud Release
  - ❑ `cd /tmp && wget https://download.owncloud.org/community/owncloud-10.0.8.zip`
  - ❑ `unzip owncloud-10.0.8.zip`
  - ❑ `sudo mv owncloud /var/www/html/owncloud/`
- Then run the commands below to set the correct permissions for OwnCloud to function.
  - ❑ `sudo chown -R www-data:www-data /var/www/html/owncloud/`
  - ❑ `sudo chmod -R 755 /var/www/html/owncloud/`



# Configure Apache2:

- Configure Apache2
  - ❑ `sudo nano /etc/apache2/sites-available/owncloud.conf`
- This file will control how users access OwnCloud content. copy and paste the content below into the file and save it

```
<VirtualHost *:80>
    ServerAdmin admin@example.com
    DocumentRoot /var/www/html/owncloud/
    ServerName avoiderrors.com
    ServerAlias www.avoiderrors.com

    Alias /owncloud "/var/www/html/owncloud/"

    <Directory /var/www/html/owncloud/>
        Options +FollowSymlinks
        AllowOverride All
        Require all granted
        <IfModule mod_dav.c>
            Dav off
        </IfModule>
        SetEnv HOME /var/www/html/owncloud
        SetEnv HTTP_HOME /var/www/html/owncloud
    </Directory>

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

```
<VirtualHost *:80>
    ServerAdmin admin@example.com
    DocumentRoot /var/www/html/owncloud/
    ServerName avoiderrors.com
    ServerAlias www.avoiderrors.com

    Alias /owncloud "/var/www/html/owncloud/"

    <Directory /var/www/html/owncloud/>
        Options +FollowSymlinks
        AllowOverride All
        Require all granted
        <IfModule mod_dav.c>
            Dav off
        </IfModule>
        SetEnv HOME /var/www/html/owncloud
        SetEnv HTTP_HOME /var/www/html/owncloud
    </Directory>

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



# Enable the OwnCloud and Rewrite Module:

- **Enable the OwnCloud and Rewrite Module**

- `sudo a2enmod rewrite`

- `sudo a2enmod headers`

- `sudo a2enmod env`

- `sudo a2enmod dir`

- `sudo a2enmod mime`

- **Restart Apache2**

- `sudo systemctl restart apache2.service`



# Enable SSL for Secure External Access:

- Enable SSL for Secure External Access
  - ❑ `sudo a2enmod ssl`
- Create a new directory for the self signed certificate:
  - ❑ `sudo mkdir /etc/apache2/ssl`
- ❑ Create the self signed certificate and the server key that protects.
  - ❑ `sudo openssl req -x509 -nodes -days 365 -newkey rsa:2048 -keyout /etc/apache2/ssl/owncloud.key -out /etc/apache2/ssl/owncloud.crt`
- Now we need to setup the certificate:
  - ❑ `sudo nano /etc/apache2/sites-available/default-ssl.conf`



# Enable SSL for Secure External Access:

- The lines that need changing are the following:
  - ❑ `sudo ServerName IP :443`
  - ❑ `SSLEngine on`
  - ❑ `SSLCertificateFile /etc/apache2/ssl/owncloud.crt`
  - ❑ `SSLCertificateKeyFile /etc/apache2/ssl/owncloud.key ssl`
- Activate the new virtual host
  - ❑ `sudo a2ensite default-ssl`
  - ❑ `sudo service apache2 restart`



# با ما در ارتباط باشید

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