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How to install NextCloud 12 on Ubuntu 16.04/16.10/17.04 – Marksei

by mark · 31 May 2017

NextCloud is a Dropbox-like solution for self-hosted file sharing and syncing. Installing NextCloud on Ubuntu is trivial. Whether you want to [backup](#), have file-syncing or just have a Google Calendar alternative, this guide is for you.

What is NextCloud? Is it like a “cloud”?

If you stumbled here by chance and don't know what NextCloud is, here is [an article](#) explaining its principal features and **advantages/disadvantages**. In this other [article](#) you can find NextCloud 12 new features. To tell you the truth, NextCloud is a SaaS cloud, if you want to know more about cloud types you can [read this article](#).

In this article we will cover the installation of the **server** (not the **client**).

Step1: Install software

Important

I take absolutely NO responsibility of what you do with your machine; use this tutorial as a guide and remember you can possibly cause data loss if you touch things carelessly.

The first step in order to install NextCloud 12 is to install a **web server** and **PHP**. Although you can adapt this guide for many Ubuntu versions I suggest you to stick with [Ubuntu 16.04](#) or higher since **PHP7** is included. PHP7 brings many improvements over the past versions and will boost NextCloud too, as a matter of fact PHP7 is required since NextCloud 11. You will need **root access** during this procedure. The following procedure will install **apache** as webserver. Input the commands one by one to avoid errors!

Ubuntu 16.04 Ubuntu 16.10 Ubuntu 17.04

Open a **terminal** and input the following commands:

```
# apt-get install apache2 libapache2-mod-php7.0
```

```
# apt-get install php7.0-gd php7.0-json php7.0-mysql php7.0-curl php7.0-mbstring
```

```
# apt-get install php7.0-intl php7.0-mcrypt php-imagick php7.0-xml php7.0-zip
```

Open a **terminal** and input the following commands:

```
# apt-get install apache2 libapache2-mod-php7.0  
# apt-get install php7.0-gd php7.0-json php7.0-mysql php7.0-curl php7.0-mbstring  
# apt-get install php7.0-intl php7.0-mcrypt php-imagick php7.0-xml php7.0-zip
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```

Step2: Database selection

Now that you have set up the environment, all that is left is to choose a database that will support the installation. You have three choices:

- **SQLite:** is a single-file database. It is suggested only for small installations since it will slow NextCloud down sensibly.
- **MariaDB/MySQL:** are popular open source databases especially amongst web developers. It is the suggested choice.
- **PostgreSQL:** a popular enterprise-class database. More complicated than MySQL/MariaDB.

Now, this choice won't really alter the functionality of NextCloud (except if you use SQLite), so pick whatever you know best. If you're unsure pick **MariaDB/MySQL**.

SQLiteMySQL/MariaDBPostgreSQL

Install the software:

```
# apt-get install sqlite3 php-sqlite3
```

Install the software:

```
# apt-get install mariadb-server php-mysql
```

Or if you prefer **MySQL**:

```
# apt-get install mysql-server php-mysql
```

During the installation you will be prompted to choose a **root password**, pick a strong one. If you're not prompted to choose a password, the default one will be blank. (This is potentially insecure, change it!)

Now you need to **enter** the database (you will be asked the password you just set):

Now that you are in **create a database**:

```
CREATE DATABASE nextcloud;
```

Now you need to **create the user** that will be used to connect to the database:

```
CREATE USER 'nc_user'@'localhost' IDENTIFIED BY 'YOUR_PASSWORD_HERE';
```

The last step is to **grant the privileges** to the new user:

```
GRANT ALL PRIVILEGES ON nextcloud.* TO 'nc_user'@'localhost';
```

```
FLUSH PRIVILEGES;
```

When you're done type **Ctrl-D** to exit.

Install the software:

```
# apt-get install postgresql php-pgsql
```

Now you need to **enter** the database:

Now that you are in **create a database**:

```
CREATE DATABASE nextcloud;
```

Now you need to **create the user** that will be used to connect to the database:

```
CREATE USER nc_user WITH PASSWORD 'YOUR_PASSWORD_HERE';
```

The last step is to **grant the privileges** to the new user:

```
GRANT ALL PRIVILEGES ON DATABASE nextcloud to nc_user;
```

When you're done type **\q** and press enter to exit.

Step 3: Install NextCloud

The last step is to actually get the software, configure it and run it.

With these step we download the software and extract it:

```
# cd /var/www

# wget https://download.nextcloud.com/server/releases/latest-12.tar.bz2 -O nextcloud-12-
latest.tar.bz2

# tar -xvjf nextcloud-12-latest.tar.bz2

# chown -R www-data:www-data nextcloud

# rm nextcloud-12-latest.tar.bz2
```

Now we need to create a new file in `/etc/apache2/sites-available/nextcloud.conf` . Feel free to use whatever editor you feel comfortable with and add the following lines:

```
Alias /nextcloud "/var/www/nextcloud/"

<Directory /var/www/nextcloud/>

    Options +FollowSymlinks

    AllowOverride All

    <IfModule mod_dav.c>

        Dav off

    </IfModule>

    SetEnv HOME /var/www/nextcloud

    SetEnv HTTP_HOME /var/www/nextcloud

</Directory>
```

Once done it's time to enable the new site and enable **apache mods** that are needed by NextCloud:

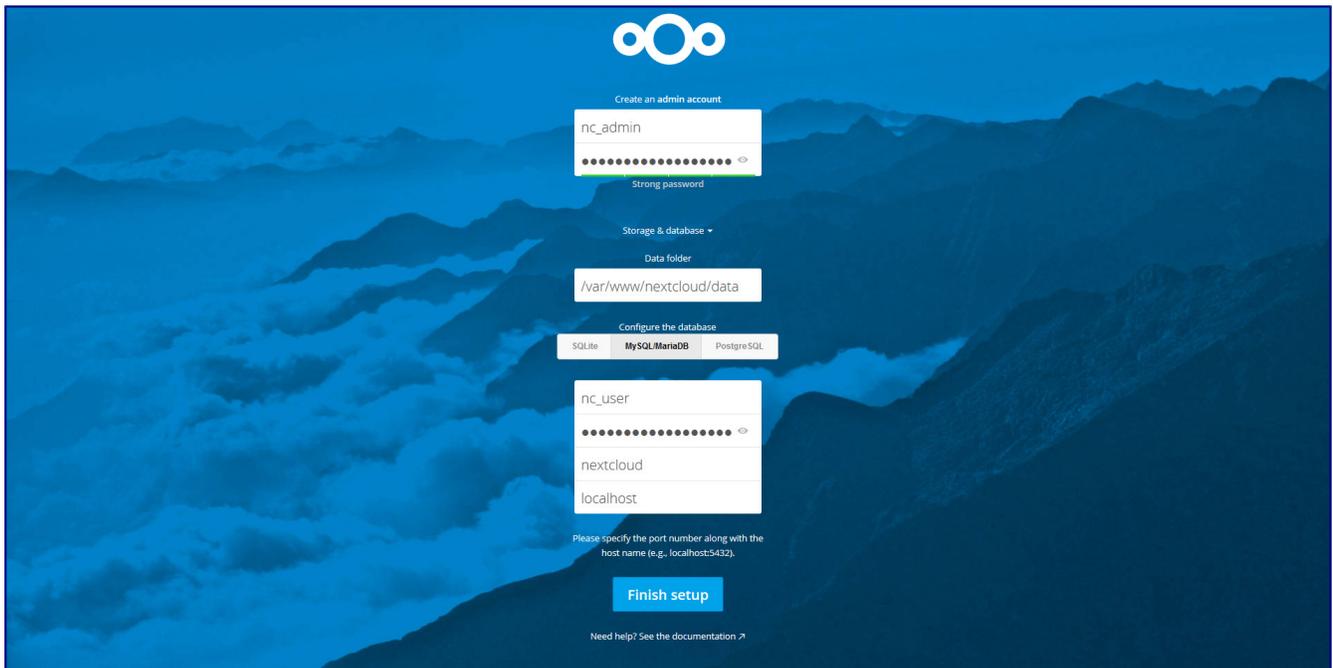
```
# a2ensite nextcloud

# a2enmod rewrite headers env dir mime

# systemctl restart apache2
```

Step 4: Install

Once you're done with selecting the **database**, it's time to install everything. Head to http://YOUR_IP_ADDRESS/nextcloud/ and you will be facing the following screen:



Nextcloud 12 installation

Select an administrator username and password, then you can select the **data folder**, but if you don't know what you're doing it's best if you leave it with the default value. Then click on "**Storage & Database**" to select the **database** you chose during step 2. Fill everything and if you've followed all the steps correctly you should be seeing the **Files app**:

