How to Install Nextcloud on Debian 10

Nextcloud is a self-hosted file sharing application that allows you to store your data, such as files, contacts, images, calendars, news and more. Using Nextcloud to store your documents can remove your need for using third-party hosting software like Dropbox, Google Drive, iCloud. In this article, we will install Nextcloud 17 on Debian 10, with Apache web server, MariaDB and PHP 7.3.

Requirements:

- root access via SSH to your VPS;

- MySQL or MariaDB 5.5+ or PostgreSQL version 9 or 10;

- PHP version 7.0 or above;

- Apache version 2.4 with mod_php or Nginx (php-fpm) web server;

Using the following command, all installed packages will be updated and upgraded:

sudo apt update

sudo apt upgrade

Install Apache web server

First, you need to install a web server to run Nextcloud. By executing the following command you will install the Apache web server on your VPS.

sudo apt install apache2

You can start Apache and also enable to start on server boot with these commands:

sudo systemctl start apache2
sudo systemctl enable apache2

Install PHP

Run below commands to upgrade the current packages to the latest version.

sudo apt update
sudo apt upgrade

Let's execute the following commands to install the required packages first on your system. Then import packages signing key. After that configure PPA for the PHP packages on your system.

sudo apt install ca-certificates apt-transport-https

sudo wget -O /etc/apt/trusted.gpg.d/php.gpg https://packages.sury.org/php/apt.gpg

sudo apt install gedit
sudo gedit /etc/apt/sources.list

And put the following lines in the document… final lines:

#Repositorios PHP
deb https://packages.sury.org/php/ buster main

You can also install the Latest PHP version on your system. Run the following commands to install PHP 7.3 on Debian 9.

sudo apt update
sudo apt install php7.3

Also install required php modules.

sudo apt install php7.3-cli php7.3-common php7.3-curl php7.3-mbstring php7.3-mysql php7.3-xml

Install PHP together with some PHP modules that are required by Nextcloud.

sudo apt install php7.3 libapache2-mod-php7.3 php7.3-common php7.3-gd php7.3-json php7.3-mysql php7.3-curl php7.3-mbstring php7.3-intl php7.1-mcrypt php7.3-imagick php7.3-xml php7.3-zip

Install MariaDB and create a database

As mentioned in the requirements, a database server is required to run NextCloud. We will install MariaDB server using the command:

sudo apt install mariadb-server

Once installed, start the database server and enable it to start at server boot.

sudo systemctl start mariadb
sudo systemctl enable mariadb

You can run the **mysql_secure_installation** which is a post-installation script used to improve the security of your MariaDB server and set a 'root' password. You may use the options below

sudo mysql_secure_installation

Set root password? [Y/n] Y

Remove anonymous users? [Y/n] Y

Disallow root login remotely? [Y/n] Y

Remove test database and access to it? [Y/n] Y

Reload privilege tables now? [Y/n] Y

Next step is to log in to the MariaDB server as 'root' user and creates a database and user for Nextcloud.

sudo mysql -u root -p

MariaDB [(none)]> **CREATE DATABASE nextcloud;**

MariaDB [(none)]> **GRANT ALL PRIVILEGES ON nextcloud.* TO '*usuario*'@'localhost' IDENTIFIED BY '*password*';**

MariaDB [(none)]> **FLUSH PRIVILEGES;**

MariaDB [(none)]> **exit;**

It is recommended to replace 'Password' with a strong password which will be a combination of letters and numbers and at least 10 characters long.

Download and install Nextcloud

Go to Nextcloud's official website and download Nextcloud 17 to your Debian 10. Currently, the latest stable version is 17.x.y.z

https://nextcloud.com/install/#instructions-server

Extract the downloaded ZIP archive Nextcloud-17.0.1.zip in a directory that Apache has access to, and change the ownership of the Nextcloud directory to the web server user.

sudo unzip nextcloud-17.0.1.zip -d /var/www/html/
sudo chown -R www-data:www-data /var/www/html/nextcloud/

Once all of the Nextcloud prerequisites are met, we can complete the installation using two different ways: using the on-screen installation wizard or via the command line. In this case, we are going to use the installation via the command line. We will change the current working directory with this command:

cd /var/www/html/nextcloud

now run the following command as web server user (www-data):

sudo -u www-data php occ maintenance:install --database "mysql" --database-name "nextcloud" --database-user "*usuario*" --database-pass "*password*" --admin-user "*usuario*" --admin-pass "*password*"

You should use the database information we created previously in this tutorial and replace the 'Password' with a strong password for the Nextcloud 'admin' user.

You will get the following output if the installation is successful

Nextcloud was successfully installed

Add your_domain.com by editing the config/config.php file

sudo gedit config/config.php

'trusted_domains' =>

array (

0 => 'localhost',

1 => 'tu_direccion_ip',

),

Create Apache Virtual Host

To access the Nextcloud with a domain name you need to create a virtual host. Create the following file with this command:

sudo gedit /etc/apache2/sites-available/localhost.conf

Don't forget to modify the localhost

<VirtualHost *:80>

ServerAdmin admin@localhost
DocumentRoot /var/www/html/nextcloud
ServerName localhost
ServerAlias localhost

Alias /nextcloud "/var/www/html/nextcloud/"

<Directory /var/www/html/nextcloud>
Options +FollowSymlinks
AllowOverride All

<IfModule mod_dav.c>
Dav off
</IfModule>

SetEnv HOME /var/www/html/nextcloud
SetEnv HTTP_HOME /var/www/html/nextcloud
</Directory>

ErrorLog /var/log/apache2/nextcloud-error_log
CustomLog /var/log/apache2/nextcloud-access_log common

</VirtualHost>

Save the file.

Enable the newly created virtual host:

sudo a2ensite localhost.conf

To finish and activate the newly created configuration, you need to reload the Apache web server.

sudo systemctl reload apache2

Congratulations, the Nextcloud 17 installation is complete. Now you can choose your favorite browser and visit the **http://localhost** and login to your Nextcloud instance by using the credentials you set in the installation command above.