

How to Install Nextcloud with Nginx and Let's Encrypt SSL on Ubuntu 20.04 LTS

<https://www.howtoforge.com/tutorial/ubuntu-nginx-nextcloud/>

Prerequisites

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- Root privileges
- ItemWhat we will do
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- Install and Configure MySQL Server
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Step 1 - Install Nginx Webserver

The first step we will do in this nextcloud guide is to install the Nginx web server. We will be using the Nginx web server instead of Apache webserver.

Log in to the server and update the repository, then install the Nginx web server using the apt command as shown below.

```
sudo apt update  
  
sudo apt install nginx -y
```

After the installation is complete, start the Nginx service and enable the service to launch every time at system boot using systemctl.

```
systemctl start nginx  
  
systemctl enable nginx
```

The Nginx service is up and running, check it using the following command.

```
systemctl status nginx
```

As a result, the Nginx web server has been installed on Ubuntu 20.04.

Step 2 - Install and Configure PHP7.4-FPM

By default, the Ubuntu 20.04 comes with default version PHP 7.4.

Install PHP and PHP-FPM packages needed by Nextcloud using the apt command below.

```
sudo apt install php-fpm php-curl php-cli php-mysql php-gd php-common php-xml php-json php-intl php-pear php-imagick php-dev php-common php-mbstring php-zip php-soap php-bz2 -y
```

After the installation is complete, we will configure the php.ini files for php-fpm and php-cli.

Go to the '/etc/php/7.4' directory.

```
cd /etc/php/7.4/
```

Edit the php.ini files for php-fpm and php-cli using vim.

```
vim fpm/php.ini
```

```
vim cli/php.ini
```

Uncomment the 'date.timezone' line and change the value with your own timezone.

```
date.timezone = North_America/New_York
```

Uncomment the 'cgi.fix_pathinfo' line and change the value to '0'.

```
cgi.fix_pathinfo=0
```

Save and exit.

Next, edit the php-fpm pool configuration 'www.conf'.

```
vim fpm/pool.d/www.conf
```

Uncomment those lines below.

```
env[HOSTNAME] = $HOSTNAME
env[PATH] = /usr/local/bin:/usr/bin:/bin
env[TMP] = /tmp
env[TMPDIR] = /tmp
env[TEMP] = /tmp
```

Save and exit.

Restart the PHP7.4-FPM service and enable it to launch every time on system boot.

```
systemctl restart php7.4-fpm
systemctl enable php7.4-fpm
```

Now check the PHP-FPM service using the following command.

```
ss -xa | grep php
systemctl status php7.4-fpm
```

And you will get the php-fpm is up and running under the sock file '/run/php/php7.4-fpm.sock'.

Step 3 - Install and Configure MariaDB Server

In this step, we will install the latest MariaDB version and create a new database for the nextcloud installation. The latest version MariaDB packages are available on the repository by default.

Install MariaDB server's latest version using the apt command below.

```
sudo apt install mariadb-server -y
```

After the installation is complete, start the MariaDB service and enable it to launch everytime at system boot.

```
systemctl start mariadb
systemctl enable mariadb
```

Now check the MySQL service using the following command.

```
systemctl status mariadb
```

The MariaDB server is up and running on Ubuntu 20.04.

Next, we will configure the MariaDB root password using the 'mysql_secure_installation' command.

Run the following command.

```
mysql_secure_installation
```

And you will be asked for some configuraiton of MariaDB Server. Also, type the new root password for MariaDB Server.

</code> Enter current password for root (enter for none): Press Enter

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

And the MariaDB root password has been set up.

Next, we will create a new database for nextcloud installation. We will create a new database named 'nextcloud_db' with the user 'nextclouduser' and password 'Nextclouduser421@'.

Login to the MySQL shell as a root user with mysql command.

```
mysql -u root -p
```

```
TYPE THE MYSQL ROOT PASSWORD
```

Now create the database and user with the password by running following MySQL queries.

```
create database nextcloud_db;  
create user nextclouduser@localhost identified by 'Nextclouduser421@';  
grant all privileges on nextcloud_db.* to nextclouduser@localhost identified  
by 'Nextclouduser421@';  
flush privileges;
```

And the new database and user for the nextcloud installation has been created.

The MariaDB installation and configuration for nextcloud has been completed.

Step 4 - Generate SSL Letsencrypt

In this tutorial, we will secure nextcloud using free SSL from Letsencrypt, and we will generate certificates files using the letsencrypt tool.

If you do not have a domain name or install nextcloud on the local computer, you can generate the Self-Signed certificate using OpenSSL.

Install the 'letsencrypt' tool using the apt command below.

```
sudo apt install certbot -y
```

After the installation is complete, stop the nginx service.

```
systemctl stop nginx
```

Next, we will generate the SSL certificates for our domain name 'nextcloud.hakase-labs.io' using the cerbot command line. Run the command below.

```
certbot certonly --standalone -d cloud.hakase-labs.io
```

You will be asked for the email address, and it's used for the renew notification. For the Letsencrypt TOS agreement, type 'A' to agree and for the share email address, you can type 'N' for No.

The SSL certificates Letsencrypt for the netxcloud domain name has been generated, all located at the '/etc/letsencrypt/live/your-domain' directory.

From:

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