Contents

1 Set up Nextcloud on *Docker* selfHosted

I like the idea of running nextcloud on Docker so it's all self-contained.

I think though that I should have my own server and just proxy from Apache into Docker, that way I only need one SSL certificate.

I was using This Image and so to download and install it all I did was:

```
which docker
```

```
docker run -d nextcloud:fpm
```

By default the container uses SQLite, but it can be linked to another database.

- This data base could be in another container with `--link my-sql:mysql`.

    - To set up postgress SQL i followed This Tutorial

1.1 Installing it without Docker

This is a tutorial I was using

1. Install the dependencies you'll need:

   ```
   sudo apt install apache2 mariadb-server libapache2-mod-php7.2 php7.2-gd php7.2-j
   sudo systemctl restart apache2

   ## PostGreSQL (I'm not sure if it's better than MySQL)
   sudo apt install postgresql postgresql-contrib
   sudo systemctl enable postgresql
   sudo systemctl start postgresql
   ```

2. Download the zip and extract it into the apache server which is usually at `/var/www/html/`

3. add necessary modules to apache:

```
sudo a2ensite nextcloud.conf
sudo a2enmod rewrite
sudo a2enmod headers
sudo a2enmod env
sudo a2enmod dir
sudo a2enmod mime
```

4. Make sure that the ownership is correct:

```
sudo chown -R www-data:www-data /var/www/html/nextcloud/
sudo chmod -R 755 /var/www/html/nextcloud/
```

5. Go to the page at

   (a) If this loaded you're good to go, if not you'll have to debug, next we need to create a database to use

6. Create a new database:

```
sudo mysql -u root -p

## We'll call the database nextcloud
CREATE DATABASE nextcloud;

## We need a user so let's keep it simple
## And call that user nextclouduser
CREATE USER 'nextclouduser'@'localhost' IDENTIFIED BY 'new_password_here';

## Make sure that nextclouduser can do whatever
## they want
GRANT ALL ON nextcloud.* TO 'nextclouduser'@'localhost' IDENTIFIED BY 'user_

## Save those changes and exit
FLUSH PRIVILEGES;
EXIT;

## Check that you actually know where the database is
cd /var/lib/mysql
ls ne*
```

7. Now go to `localhost/nextcloud` and you'll be given a portal, Make sure you choose `MySQL` (otherwise it will be slow, `postgreSQL` is fine

too) you'll then be able to enter all those settings into the Portal, so
something like:

Database user	nextclouduser
Database password	######
Database	nextcloud
Database Host	localhost

we know that the database host is localhost because nextcloud will be
running on the computer that nextcloud is running on.

the Data folder can be specified as well, for the moment I'm just using
the default of `/var/www/html/nextcloud/data`.

I actually made a typo in creating the user inside `SQL`, don't do
that, be more careful. When I went to fixe it with `USER DROP`
and repeating `CREATE USER` I actually forgot to repeat this part:

```
GRANT ALL ON nextcloud.* TO 'nextclouduser'@'localhost' IDENTIFIED BY 'user_
```

So that gave me a headache, don't make these mistakes.

1. Then make sure to install the two factor signal app and enforce 2FA
   in the settings so you don't have a breach.

   (a) you'll need to run the following as described here.
   ```
   cd /var/www/html/nextcloud
   ./occ twofactorauth:gateway:configure sms
   ```