

Nextcloud

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Installation

Pre-Installation

Choose a place to store your user files (e.g. documents, photos, etc.). You can mount a different disk for example.

1. Find out the name of the drive

```
lsblk
```

2. Create the mount path and change ownership

```
sudo mkdir /mnt/data
sudo chown -R $USER:$USER /mnt/data
```

3. Create an fstab entry to mount the drive on startup

```
sudo nano /etc/fstab
```

and add the the following to the bottom (replace `/dev/sda1` accordingly)

```
/dev/sda1 /mnt/data ext4 defaults 0 0
```

`docker-compose.yml`

```
version: "3"
services:
  nextcloud_db:
    image: mariadb
    container_name: nextcloud_db
    restart: unless-stopped
    command: --transaction-isolation=READ-COMMITTED --log-bin=ROW
    volumes:
      - ./data/db:/var/lib/mysql
      - /etc/localtime:/etc/localtime:ro
      - /etc/timezone:/etc/timezone:ro
    environment:
      - MYSQL_HOST=nextcloud_db
      - MYSQL_DATABASE=nextcloud
```

- MYSQL_USER=nextcloud
- MYSQL_PASSWORD=\${NEXTCLOUD_MYSQL_PASSWORD}
- MYSQL_ROOT_PASSWORD=\${NEXTCLOUD_MYSQL_ROOT_PASSWORD}

nextcloud_redis:

```
image: redis:alpine
container_name: nextcloud_redis
command: redis-server --requirepass ${NEXTCLOUD_REDIS_HOST_PASSWORD}
restart: unless-stopped
environment:
  - REDIS_HOST=nextcloud_redis
  - REDIS_HOST_PASSWORD=${NEXTCLOUD_REDIS_HOST_PASSWORD}
```

nextcloud:

```
image: nextcloud
container_name: nextcloud
restart: unless-stopped
depends_on:
  - nextcloud_db
  - nextcloud_redis
volumes:
  - ./data/app:/var/www/html
  - ./config:/var/www/html/config
  - /mnt/data/nextcloud:/var/www/html/data
hostname: cloud.${SITE}
environment:
  - MYSQL_HOST=nextcloud_db
  - MYSQL_DATABASE=nextcloud
  - MYSQL_USER=nextcloud
  - MYSQL_PASSWORD=${NEXTCLOUD_MYSQL_PASSWORD}
  - REDIS_HOST=nextcloud_redis
  - REDIS_HOST_PASSWORD=${NEXTCLOUD_REDIS_HOST_PASSWORD}
  - OVERWRITEHOST=cloud.${SITE}
  - OVERWRITEPROTOCOL=https
  - overwrite.cli.url=https://cloud.${SITE}
  - PHP_MEMORY_LIMIT=768M
  - PHP_UPLOAD_LIMIT=1G
  - TRUSTED_PROXIES=${LOCAL_IP}
```

labels:

```
traefik.enable: true
# https://docs.nextcloud.com/server/22/admin_manual/installation/harden_server.html
# https://doc.traefik.io/traefik/v2.6/middlewares/http/headers/
traefik.http.middlewares.header-nextcloud.headers.browserXssFilter: true
traefik.http.middlewares.header-nextcloud.headers.contentTypeNosniff: true
traefik.http.middlewares.header-nextcloud.headers.customFrameOptionsValue: 'SAMEORIGIN'
traefik.http.middlewares.header-nextcloud.headers.referrerPolicy: 'no-referrer'
traefik.http.middlewares.header-nextcloud.headers.stsincludesubdomains: true
traefik.http.middlewares.header-nextcloud.headers.stspreload: true
traefik.http.middlewares.header-nextcloud.headers.stsseconds: 15552000
```

#

https://docs.nextcloud.com/server/21/admin_manual/issues/general_troubleshooting.html#service-discovery

#

https://docs.nextcloud.com/server/23/admin_manual/configuration_server/reverse_proxy_configuration.html#traefik-2

```
# https://doc.traefik.io/traefik/v2.6/middlewares/http/redirectregex/
```

```
traefik.http.middlewares.redirect-dav-nextcloud.redirectRegex.permanent: true
```

```
traefik.http.middlewares.redirect-dav-nextcloud.redirectRegex.regex:
```

```
'https://cloud.${SITE}/.well-known/(card|cal)dav'
```

```
traefik.http.middlewares.redirect-dav-nextcloud.redirectRegex.replacement:
```

```
'https://cloud.${SITE}/remote.php/dav/'
```

```
traefik.http.routers.nextcloud.entrypoints: websecure
```

```
traefik.http.routers.nextcloud.middlewares: 'header-nextcloud,redirect-dav-
nextcloud,secured@file'
```

```
traefik.http.routers.nextcloud.rule: 'Host(`cloud.${SITE}`)'
```

```
traefik.http.services.nextcloud.loadbalancer.server.port: 80
```

Post-Installation

- Set the default phone region

Edit `config/config.php` and add `'default_phone_region' => 'DE',` down at the bottom.

- Create a sudo cronjob for the nextcloud background tasks

Edit

```
sudo crontab -e
```

and add the following line

```
*/5 * * * * docker exec -u www-data nextcloud php /var/www/html/cron.php
```

- Setup 2FA and everything else in the GUI

See also

- <https://help.nextcloud.com/t/docker-nextcloud-oder-linuxserver-nextcloud/168668/6>
- <https://goneuland.de/nextcloud-server-mit-docker-compose-und-traefik-installieren/>

Calendar

To use the calendar, an admin first needs to activate the app in the admin settings. If that is done, you can log into your user account.

If you have set up 2FA, you will first need to create a new app password:

1. Go to `User` > `Settings` > `Security` and scroll down to `Devices & session`.
2. Choose a name for your app (e.g. `Thunderbird`) and click on `Create new app password`.
3. Save `Username` and `Password` for later and click `Done`.
4. Go to your calendar of choice and follow their instructions to set up the calendar.
5. In the setup, use the `Username` and `Password` from above.

For Thunderbird see [here](#).