

# Nextcloud

- [Installation](#)
- [Calendar](#)

# 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](#).