

How To run NextCloud

Overview

I run NExtcloud using a docker. There are 2 options - either manually set it up or do the all-in-one. The all-in-one is new and looks promising, but I saw some performance downgrades.

NextCloud Individual Services

This is my docker-compose running each of the services independent. It will create a "stack" in Portainer. This was pulled from Their GitHub Repo (

<https://github.com/nextcloud/docker/blob/master/.examples/docker-compose/with-nginx-proxy/mariadb/fpm/docker-compose.yml>).

Since I was running this on windows, I had issues with the CRON service, so I would uncomment that and run it. You can see that there are 2 document servers, one is commented out. I keep going back and forth to find out which one is best. So far I've settled on ONLYOFFICE. there is a weird thing where one of the config files doesn't work right. So there are some commands I have here to copy files from one location to another to get it working - You can most likely skip that for a new setup since it was a hacky fix.

I also did not enable elastic search since it require a lot of resources and some plugins in my existing next cloud was fine.

```
version: '3'

# Note after running I ran 'chmod 755 /var/www/' in the app and web containers.
#This was before I discovered the redis auth error, which is fixed using requirepass in redis
and app container in this compose file. Try not chmodding next time.

services:
  db:
    container_name: nextcloud-db
    image: mariadb
    command: --transaction-isolation=READ-COMMITTED --binlog-format=ROW --skip-innodb-read-
only-compressed
    restart: always
```

```

volumes:
  - db:/var/lib/mysql

environment:
  - MYSQL_ROOT_PASSWORD=passw0rd
  - TZ=America/New_York

env_file:
  - db.env


redis:
  container_name: nextcloud-redis
  image: redis:alpine
  command: redis-server --requirepass modi3885
  restart: always
  #user: "1000:1000"


# collab:
#   image: collabora/code
#   container_name: nextcloud-collab
#   restart: always
#   cap_add:
#     - MKNOD
#   ports:
#     - 9980:9980
#   environment:
#     - username=admin
#     - password=modi3885
#     - VIRTUAL_PORT=9980
#     - domain=.*
#     - extra_params=--o:ssl.enable=false --o:ssl.termination=true --
o:net.post_allow.host[0]=.+ --o:storage.wopi.host[0]=.+
#     - TZ=America/New_York
#location of loolwsd.xml which is main config. these are commands to copy it to host and
back:
# docker cp nextcloud-collab:/etc/loolwsd/loolwsd.xml collabora/loolwsd/loolwsd-
Latest_from_container.xml
# docker cp ./collabora/loolwsd/loolwsd.xml nextcloud-collab:/etc/loolwsd/loolwsd.xml


onlyoffice-document-server:
  container_name: nextcloud-onlyoffice
  image: onlyoffice/documentserver:latest

```

```

    stdin_open: true
    tty: true
    restart: always
    ports:
      - 9943:443
      - 9988:80
    volumes:
      - ./onlyoffice/document_data:/var/www/onlyoffice/Data
      - ./onlyoffice/document_log:/var/log/onlyoffice
#   - ./onlyoffice/nginx/includes:/etc/nginx/includes
#location of loolwsd.xml which is main config. these are commands to copy it to host and
back:
# docker cp nextcloud-onlyoffice:/etc/onlyoffice/documentserver/nginx/includes/http-
common.conf ./onlyoffice/nginx/includes/http-common_Latest_from_container.conf
# docker cp ./onlyoffice/nginx/includes/http-common.conf nextcloud-
onlyoffice:/etc/onlyoffice/documentserver/nginx/includes/http-common.conf

# elasticsearch:
#   container_name: nextcloud-elasticsearch
#   build: ./elastic-docker
#   restart: always
#   environment:
#     - discovery.type=single-node
#     - http.host=0.0.0.0
#     - transport.host=0.0.0.0
#     - "ES_JAVA_OPTS=-Xms1g -Xmx1g"
#   volumes:
#     - ./elastic/data:/usr/share/elasticsearch/data
#     - ./elastic-
docker/elasticsearch.yml:/usr/share/elasticsearch/config/elasticsearch.yml
#   ports:
#     - 9200:9200

app:
  container_name: nextcloud-app
  image: nextcloud:fpm-alpine
  restart: always
  #user: "1000:1000"
  volumes:
    - nextcloud:/var/www/html

```

```

- ./app/config:/var/www/html/config
#- ./app/custom_apps:/var/www/html/custom_apps
- ./app/data:/var/www/html/data
- ./app/themes:/var/www/html/themes
environment:
  - MYSQL_HOST=db
  - REDIS_HOST=redis
  - REDIS_HOST_PASSWORD=modi3885
  - TZ=America/New_York
env_file:
  - db.env
depends_on:
  - db
  - redis
#    - elasticsearch

web:
  container_name: nextcloud-web
  build: ./web
  restart: always
  ports:
    - 8888:80
  volumes:
    - nextcloud:/var/www/html:ro
    - ./web/nginx.conf:/etc/nginx/nginx.conf
  depends_on:
    - app
  labels:
    - "com.centurylinklabs.watchtower.enable=false"

# moving to tasks since there are issues with the container.
# cron:
#   container_name: nextcloud-cron
#   image: nextcloud:fpm-alpine
#   restart: always
#   #user: "1000:1000"
#   volumes:
#     - nextcloud:/var/www/html
#   entrypoint: /cron.sh
#   depends_on:

```

```
# - db
# - redis
# network_mode: host
volumes:
  nextcloud:
  db:
```

NextCloud AIO

Here is the AIO (All-In-One) Version. It works but as I said doesn't have great performance when I tried it. But I didn't really give it a fair shot. It will create a master container then spawn others off of it. Note that you'll have to use the ARM64 version for a raspberry pi. I'm running on a windows docker.

Link to project: <https://github.com/nextcloud/all-in-one>

This is what they suggest

```
version: "3.8"

volumes:
  nextcloud_aio_mastercontainer:
    name: nextcloud_aio_mastercontainer # This line is not allowed to be changed

services:
  nextcloud:
    image: nextcloud/all-in-one:latest # Must be changed to 'nextcloud/all-in-one:latest-arm64' when used with an arm64 CPU
    restart: always
    container_name: nextcloud-aio-mastercontainer # This line is not allowed to be changed
    volumes:
      - nextcloud_aio_mastercontainer:/mnt/docker-aio-config # This line is not allowed to be changed
      - /var/run/docker.sock:/var/run/docker.sock:ro # May be changed on macOS, Windows or docker rootless. See the applicable documentation. If adjusting, don't forget to also set 'DOCKER_SOCKET_PATH'!
    ports:
      - 80:80 # Can be removed when running behind a reverse proxy. See https://github.com/nextcloud/all-in-one/blob/main/reverse-proxy.md
      - 8080:8080
```

- 8443:8443 # Can be removed when running behind a reverse proxy. See <https://github.com/nextcloud/all-in-one/blob/main/reverse-proxy.md>

environment: # Is needed when using any of the options below

- APACHE_PORT=11000 # Is needed when running behind a reverse proxy. See <https://github.com/nextcloud/all-in-one/blob/main/reverse-proxy.md>

- APACHE_IP_BINDING=127.0.0.1 # Should be set when running behind a reverse proxy that is running on the same host. See <https://github.com/nextcloud/all-in-one/blob/main/reverse-proxy.md>

- COLLABORA_SECCOMP_DISABLED=false # Setting this to true allows to disable Collabora's Seccomp feature. See <https://github.com/nextcloud/all-in-one#how-to-disable-collaboras-seccomp-feature>

- DOCKER_SOCKET_PATH=/var/run/docker.sock # Needs to be specified if the docker socket on the host is not located in the default '/var/run/docker.sock'. Otherwise mastercontainer updates will fail.

- DISABLE_BACKUP_SECTION=false # Setting this to true allows to hide the backup section in the AIO interface.

- NEXTCLOUD_DATADIR=/mnt/ncdata # Allows to set the host directory for Nextcloud's datadir. See <https://github.com/nextcloud/all-in-one#how-to-change-the-default-location-of-nextclouds-datadir>

- NEXTCLOUD_MOUNT=/mnt/ # Allows the Nextcloud container to access the chosen directory on the host. See <https://github.com/nextcloud/all-in-one#how-to-allow-the-nextcloud-container-to-access-directories-on-the-host>

- NEXTCLOUD_UPLOAD_LIMIT=10G # Can be adjusted if you need more. See <https://github.com/nextcloud/all-in-one#how-to-adjust-the-upload-limit-for-nextcloud>

- NEXTCLOUD_MAX_TIME=3600 # Can be adjusted if you need more. See <https://github.com/nextcloud/all-in-one#how-to-adjust-the-max-execution-time-for-nextcloud>

- NEXTCLOUD_MEMORY_LIMIT=512M # Can be adjusted if you need more. See <https://github.com/nextcloud/all-in-one#how-to-adjust-the-php-memory-limit-for-nextcloud>

- NEXTCLOUD_TRUSTED_CACERTS_DIR=/path/to/my/cacerts # CA certificates in this directory will be trusted by the OS of the nexcloud container (Useful e.g. for LDAPS) See <https://github.com/nextcloud/all-in-one#how-to-trust-user-defiend-certification-authorities-ca>

- NEXTCLOUD_STARTUP_APPS=deck tasks calendar contacts # Allows to modify the Nextcloud apps that are installed on starting AIO the first time. See <https://github.com/nextcloud/all-in-one#how-to-change-the-nextcloud-apps-that-are-installed-on-the-first-startup>

- NEXTCLOUD_ADDITIONAL_APKS=imagemagick # This allows to add additional packages to the Nextcloud container permanently. Default is imagemagick but can be overwritten by modifying this value. See <https://github.com/nextcloud/all-in-one#how-to-add-packets-permanently-to-the-nextcloud-container>

- NEXTCLOUD_ADDITIONAL_PHP_EXTENSIONS=imagick # This allows to add additional php extensions to the Nextcloud container permanently. Default is imagick but can be overwritten

by modifying this value. See <https://github.com/nextcloud/all-in-one#how-to-add-php-extensions-permanently-to-the-nextcloud-container>

```
# - TALK_PORT=3478 # This allows to adjust the port that the talk container is using.
```

```
# # Optional: Caddy reverse proxy. See https://github.com/nextcloud/all-in-one/blob/main/reverse-proxy.md
```

```
# # You can find further examples here: https://github.com/nextcloud/all-in-one/discussions/588
```

```
# caddy:
```

```
# image: caddy:alpine
```

```
# restart: always
```

```
# container_name: caddy
```

```
# volumes:
```

```
# - ./Caddyfile:/etc/caddy/Caddyfile
```

```
# - ./certs:/certs
```

```
# - ./config:/config
```

```
# - ./data:/data
```

```
# - ./sites:/srv
```

```
# network_mode: "host"
```

This is what I ran

```
version: "3.8"
```

```
#Ran this first to create the link for the data directory.
```

```
#docker volume create --driver local --name nextcloud_aio_nextcloud_datadir -o device="/host_mnt/j/DockerDesktop/NextCloud_aio/data" -o type="none" -o o="bind"
```

```
#docker volume create --driver local --name nextcloud_aio_backupdir -o device="/host_mnt/j/DockerDesktop/NextCloud_aio/backup" -o type="none" -o o="bind"
```

```
volumes:
```

```
nextcloud_aio_mastercontainer:
```

```
name: nextcloud_aio_mastercontainer # This line is not allowed to be changed
```

```
services:
```

```
nextcloud:
```

```
image: nextcloud/all-in-one:beta # Must be changed to 'nextcloud/all-in-one:latest-arm64'
```

when used with an arm64 CPU

```
restart: always
```

```
container_name: nextcloud-aio-mastercontainer # This line is not allowed to be changed
```

volumes:

- nextcloud_aio_mastercontainer:/mnt/docker-aio-config # This line is not allowed to be changed

- //var/run/docker.sock:/var/run/docker.sock:ro # May be changed on macOS, Windows or docker rootless. See the applicable documentation

ports:

- #- 80:80 # Can be removed when running behind a reverse proxy. See <https://github.com/nextcloud/all-in-one/blob/main/reverse-proxy.md>

- 8081:8080

- #- 8443:8443 # Can be removed when running behind a reverse proxy. See <https://github.com/nextcloud/all-in-one/blob/main/reverse-proxy.md>

environment: # Is needed when using any of the options below

- APACHE_PORT=11000 # Is needed when running behind a reverse proxy. See <https://github.com/nextcloud/all-in-one/blob/main/reverse-proxy.md>

- # - APACHE_IP_BINDING=127.0.0.1 # Should be set when running behind a reverse proxy that is running on the same host. See <https://github.com/nextcloud/all-in-one/blob/main/reverse-proxy.md>

- #- NEXTCLOUD_TRUSTED_DOMAINS=nc.modi-family.com 192.168.1.100 # Your domain name + proxy host IP

- #- TRUSTED_PROXIES=192.168.1.100 # proxy host IP

- TALK_PORT=3478 # This allows to adjust the port that the talk container is using.

- NEXTCLOUD_DATADIR=nextcloud_aio_nextcloud_datadir # Allows to set the host directory for Nextcloud's datadir. See <https://github.com/nextcloud/all-in-one#how-to-change-the-default-location-of-nextclouds-datadir>

- # - NEXTCLOUD_MOUNT=/mnt/ # Allows the Nextcloud container to access the chosen directory on the host. See <https://github.com/nextcloud/all-in-one#how-to-allow-the-nextcloud-container-to-access-directories-on-the-host>

- # - DOCKER_SOCKET_PATH=/var/run/docker.sock # Needs to be specified if the docker socket on the host is not located in the default '/var/run/docker.sock'. Otherwise mastercontainer updates will fail.

- # - DISABLE_BACKUP_SECTION=true # Setting this to true allows to hide the backup section in the AIO interface.

- # - NEXTCLOUD_UPLOAD_LIMIT=10G # Can be adjusted if you need more. See <https://github.com/nextcloud/all-in-one#how-to-adjust-the-upload-limit-for-nextcloud>

- # - NEXTCLOUD_MAX_TIME=3600 # Can be adjusted if you need more. See <https://github.com/nextcloud/all-in-one#how-to-adjust-the-max-execution-time-for-nextcloud>

- # - TRUSTED_CACERTS_DIR=/path/to/my/cacerts # CA certificates in this directory will be trusted by the OS of the nexcloud container (Useful e.g. for LDAPS) See <https://github.com/nextcloud/all-in-one#how-to-trust-user-defiend-certification-authorities-ca>

- # - COLLABORA_SECCOMP_DISABLED=false # Setting this to true allows to disable

Collabora's Seccomp feature. See <https://github.com/nextcloud/all-in-one#how-to-disable-collaboras-seccomp-feature>

- SKIP_DOMAIN_VALIDATION=true

NextCloud Configuration File

Not sure if you need this, but this is my config file for nextcloud after I get it running. This sits in `app/config/config.php`. It's deisnged to use the cache (redis), my gmail for sending emails to people, and for external access. I manage external access using Nginx proxy manager.

```
<?php
$CONFIG = array (
    'memcache.local' => '\\OC\\Memcache\\APCu',
    'apps_paths' =>
        array (
            0 =>
                array (
                    'path' => '/var/www/html/apps',
                    'url' => '/apps',
                    'writable' => false,
                ),
            1 =>
                array (
                    'path' => '/var/www/html/custom_apps',
                    'url' => '/custom_apps',
                    'writable' => true,
                ),
        ),
    'memcache.distributed' => '\\OC\\Memcache\\Redis',
    'memcache.locking' => '\\OC\\Memcache\\Redis',
    'redis' =>
        array (
            'host' => 'redis',
            'password' => 'modi3885',
            'port' => 6379,
        ),
    'instanceid' => 'ocac9obwdny3',
    'passwordsalt' => 'DTZBbvR+SvYhuxecBZ3rrx9QQWRHfF',
    'secret' => '0UV8PobIDmd1+rmKTvhnNgGcaCnfEAsQ2X2JNpJLtZ8eUep5',
```

```
'trusted_domains' =>
array (
    0 => 'localhost:8888',
    1 => '192.168.1.100:8888',
    2 => 'nc.parthmodi.com',
    3 => 'nextcloud.parthmodi.com',
    4 => 'files.parthmodi.com',
    5 => 'cloud.parthmodi.com',
    6 => 'nc.modi-family.com',
    7 => 'nextcloud.modi-family.com',
    8 => 'files.modi-family.com',
    9 => 'cloud.modi-family.com',
),
'trusted_proxies' =>
array (
    0 => '192.168.1.100',
    1 => 'nc.parthmodi.com',
    2 => 'nextcloud.parthmodi.com',
    3 => 'files.parthmodi.com',
    4 => 'cloud.parthmodi.com',
    5 => 'nc.modi-family.com',
    6 => 'nextcloud.modi-family.com',
    7 => 'files.modi-family.com',
    8 => 'cloud.modi-family.com',
),
'allow_local_remote_servers' => true,
'check_data_directory_permissions' => false,
'datadirectory' => '/var/www/html/data',
'dbtype' => 'mysql',
'version' => '25.0.2.3',
'overwrite.cli.url' => 'https://cloud.modi-family.com',
'overwriteprotocol' => 'https',
'dbname' => 'nextcloud',
'dbhost' => 'db',
'dbport' => '',
'dbtableprefix' => 'oc_',
'mysql.utf8mb4' => true,
'dbuser' => 'nextcloud',
'dbpassword' => 'passw0rd',
'installed' => true,
'app_install_overwrite' =>
```

```
array (
    0 => 'dashboard',
    1 => 'ocr',
    2 => 'files_ebookreader',
    3 => 'groupfolders',
    4 => 'files_mindmap',
    5 => 'files_fulltextsearch_tesseract',
    6 => 'files_fulltextsearch',
    7 => 'fulltextsearch_elasticsearch',
    8 => 'fulltextsearch',
    9 => 'drawio',
    10 => 'files_reader',
    11 => 'apporder',
    12 => 'bruteforcesettings',
    13 => 'side_menu',
    14 => 'nextbackup',
    15 => 'onlyoffice',
    16 => 'tasks',
    17 => 'occweb',
),
'maintenance' => false,
'theme' => '',
'loglevel' => 0,
'log.condition' =>
array (
    'apps' =>
array (
    0 => 'admin_audit',
),
),
'defaultapp' => 'apporder',
'mail_domain' => 'modi-family.com',
'mail_from_address' => 'admin',
'mail_smtpmode' => 'smtp',
'mail_sendmailmode' => 'smtp',
'mail_smtpauthtype' => 'LOGIN',
'mail_smtpauth' => 1,
'mail_smtphost' => 'smtp.gmail.com',
'mail_smtpport' => '587',
'mail_smtpname' => 'modifamilyapp@gmail.com',
'mail_smtppassword' => 'thtwuoaopwdmovy',
```

```
'mail_smtpsecure' => 'tls',  
);
```

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