

Installation Nextcloud

cloud, Nextcloud



Ce mode opératoire est en cours de rédaction et n'est pas finalisé.

Nextcloud est une application de stockage de fichiers en ligne.

Installation Nginx

Nous installons Nginx

```
sudo aptitude install nginx
```

Récupération de Nextcloud

Le dernier paquet Nexcloud se trouve à cette adresse :

<https://nextcloud.com/install/#instructions-server>

Nous récupérons l'archive Nextcloud

```
wget https://download.nextcloud.com/server/releases/latest.zip
```

Nous le décompressons

```
unzip latest.zip
```

Nous le renommons, lui donnons les bons droits et le plaçons dans /var/www

```
mv nextcloud cloud.grohub.org  
sudo chown -R www-data: cloud.grohub.org  
sudo mv cloud.grohub.org /var/www
```

Création vHost Nginx

Nous créons le fichier vHost

```
sudo vi /etc/nginx/sites-available/cloud.grohub.org.conf
```

Nous y ajoutons ce contenu

```
upstream php-handler {
```

```
server unix:/var/run/php/nextcloud.sock;
}

# Set the `immutable` cache control options only for assets with a cache
busting `v` argument
map $arg_v $asset_immutable {
    "" "";
    default "immutable";
}

server {
    listen 80;
    server_name cloud.example.com;

    # Prevent nginx HTTP Server Detection
    server_tokens off;

    # Enforce HTTPS
    return 301 https://$server_name$request_uri;
}

server {
    listen 443 ssl http2;
    server_name cloud.grohub.org;

    # Path to the root of your installation
    root /var/www/cloud.grohub.org;

    # Logs
    access_log /var/log/nginx/cloud.grohub.org.access.log;
    error_log /var/log/nginx/cloud.grohub.org.error.log;

    # Use Mozilla's guidelines for SSL/TLS settings
    # https://mozilla.github.io/server-side-tls/ssl-config-generator/
    ssl_certificate /etc/nginx/ssl/cloud.grohub.org.crt;
    ssl_certificate_key /etc/nginx/ssl/cloud.grohub.org.key;

    # Prevent nginx HTTP Server Detection
    server_tokens off;

    # HSTS settings
    # WARNING: Only add the preload option once you read about
    # the consequences in https://hstspreload.org/. This option
    # will add the domain to a hardcoded list that is shipped
    # in all major browsers and getting removed from this list
    # could take several months.
    #add_header Strict-Transport-Security "max-age=15768000;
includeSubDomains; preload" always;
```

```
# set max upload size and increase upload timeout:
client_max_body_size 512M;
client_body_timeout 300s;
fastcgi_buffers 64 4K;

# Enable gzip but do not remove ETag headers
gzip on;
gzip_vary on;
gzip_comp_level 4;
gzip_min_length 256;
gzip_proxied expired no-cache no-store private no_last_modified no_etag
auth;
gzip_types application/atom+xml application/javascript application/json
application/ld+json application/manifest+json application/rss+xml
application/vnd.geo+json application/vnd.ms-fontobject application/wasm
application/x-font-ttf application/x-web-app-manifest+json
application/xhtml+xml application/xml font/opentype image/bmp image/svg+xml
image/x-icon text/cache-manifest text/css text/plain text/vcard
text/vnd.rim.location.xloc text/vtt text/x-component text/x-cross-domain-
policy;

# Pagespeed is not supported by Nextcloud, so if your server is built
# with the `ngx_pagespeed` module, uncomment this line to disable it.
#pagespeed off;

# The settings allows you to optimize the HTTP2 bandwidth.
# See
https://blog.cloudflare.com/delivering-http-2-upload-speed-improvements/
# for tuning hints
client_body_buffer_size 512k;

# HTTP response headers borrowed from Nextcloud `.htaccess`
add_header Referrer-Policy "no-referrer" always;
add_header X-Content-Type-Options "nosniff" always;
add_header X-Download-Options "noopen" always;
add_header X-Frame-Options "SAMEORIGIN" always;
add_header X-Permitted-Cross-Domain-Policies "none" always;
add_header X-Robots-Tag "noindex, nofollow" always;
add_header X-XSS-Protection "1; mode=block" always;

# Remove X-Powered-By, which is an information leak
fastcgi_hide_header X-Powered-By;

# Add .mjs as a file extension for javascript
# Either include it in the default mime.types list
# or include you can include that list explicitly and add the file
extension
# only for Nextcloud like below:
#include mime.types;
#types {
# application/javascript js mjs;
```

```
#}

# Specify how to handle directories -- specifying
`/index.php$request_uri`
# here as the fallback means that Nginx always exhibits the desired
behaviour
# when a client requests a path that corresponds to a directory that
exists
# on the server. In particular, if that directory contains an index.php
file,
# that file is correctly served; if it doesn't, then the request is
passed to
# the front-end controller. This consistent behaviour means that we
don't need
# to specify custom rules for certain paths (e.g. images and other
assets,
# `/updater`, `/ocm-provider`, `/ocs-provider`), and thus
# `try_files $uri $uri/ /index.php$request_uri`
# always provides the desired behaviour.
index index.php index.html /index.php$request_uri;

# Rule borrowed from `.htaccess` to handle Microsoft DAV clients
location = / {
    if ( $http_user_agent ~ ^DavClnt ) {
        return 302 /remote.php/webdav/$is_args$args;
    }
}

location = /robots.txt {
    allow all;
    log_not_found off;
    access_log off;
}

# Make a regex exception for `/.well-known` so that clients can still
# access it despite the existence of the regex rule
# `location ~ /\.(|autotest|...)` which would otherwise handle requests
# for `/.well-known`.
location ^~ /.well-known {
    # The rules in this block are an adaptation of the rules
    # in `.htaccess` that concern `/.well-known`.

    location = /.well-known/carddav { return 301 /remote.php/dav/; }
    location = /.well-known/caldav { return 301 /remote.php/dav/; }

    location /.well-known/acme-challenge { try_files $uri $uri/ =404;
}
    location /.well-known/pki-validation { try_files $uri $uri/ =404;
}
}
```

```
# Let Nextcloud's API for `/.well-known` URIs handle all other
# requests by passing them to the front-end controller.
return 301 /index.php$request_uri;
}

# Rules borrowed from `.htaccess` to hide certain paths from clients
location ~ ^/(?:(build|tests|config|lib|3rdparty|templates|data)?($|/))
{ return 404; }
location ~ ^/(?!(\.|autotest|occ|issue|indie|db_|console))
{ return 404; }

# Ensure this block, which passes PHP files to the PHP process, is above
the blocks
# which handle static assets (as seen below). If this block is not
declared first,
# then Nginx will encounter an infinite rewriting loop when it prepends
`/index.php`
# to the URI, resulting in a HTTP 500 error response.
location ~ \.php(?:$|/) {
    # Required for legacy support
    rewrite
    ^/(?!(index|remote|public|cron|core/ajax/update|status|ocs/v[12]|updater/|
.+|oc/ms-provider|.+|.+/richdocumentscode/proxy) /index.php$request_uri;

    fastcgi_split_path_info ^(.+?\.php)(/.*)$;
    set $path_info $fastcgi_path_info;

    try_files $fastcgi_script_name =404;

    include fastcgi_params;
    fastcgi_param SCRIPT_FILENAME $document_root$fastcgi_script_name;
    fastcgi_param PATH_INFO $path_info;
    fastcgi_param HTTPS on;

    fastcgi_param modHeadersAvailable true;          # Avoid sending the
security headers twice
    fastcgi_param front_controller_active true;      # Enable pretty urls
    fastcgi_pass php-handler;

    fastcgi_intercept_errors on;
    fastcgi_request_buffering off;

    fastcgi_max_temp_file_size 0;
}

location ~ \.(?:css|js|svg|gif|png|jpg|ico|wasm|tflite|map)$ {
    try_files $uri /index.php$request_uri;
    add_header Cache-Control "public, max-age=15778463,
$asset_immutable";
    access_log off;          # Optional: Don't log access to assets
```

```
location ~ /\.wasm$ {
    default_type application/wasm;
}

location ~ /\.woff2?$ {
    try_files $uri /index.php$request_uri;
    expires 7d;          # Cache-Control policy borrowed from `.htaccess`
    access_log off;      # Optional: Don't log access to assets
}

# Rule borrowed from `.htaccess`
location /remote {
    return 301 /remote.php$request_uri;
}

location / {
    try_files $uri $uri/ /index.php$request_uri;
}
}
```

Nous créons le lien symbolique dans /etc/nginx/sites-enabled

```
cd /etc/nginx/sites-enabled
sudo ln -s /etc/nginx/sites-available/cloud.grohub.org.conf
```

Nous testons et rechargeons la configuration

```
sudo nginx -t
sudo systemctl reload nginx
```

Install / conf PHP

Installation PHP

Nous installon PHP-fpm et les différents modules dont nous aurons besoin

```
sudo apt install php-common php-imagick php8.2-apcu php8.2-bcmath php8.2-bz2
php8.2-cli php8.2-common php8.2-curl php8.2-fpm php8.2-gd php8.2-gmp php8.2-
igbinary php8.2-imagick php8.2-imap php8.2-intl php8.2-mbstring php8.2-
opcache php8.2-readline php8.2-xml php8.2-zip
```

php.ini

Nous réglons le temps maximal d'exécution pour éviter les timeout dans le fichier
/etc/php/7.3/fpm/php.ini

```
max_execution_time = 300
```

Nous activons opcode. Toujours dans le fichier `/etc/php/7.3/fpm/php.ini`, nous recherchons ces clés et enlevons les commentaires ou les activer

```
opcache.enable=1
opcache.interned_strings_buffer=8
opcache.max_accelerated_files=10000
opcache.memory_consumption=128
opcache.save_comments=1
opcache.revalidate_freq=1
```

PHP pool

Dans le fichier `/etc/php/8.2/fpm/pool.d/nextcloud.conf` nous saisissons ces éléments

```
[nextcloud]
listen = /run/php/nextcloud.sock

listen.owner = www-data
listen.group = www-data

user = www-data
group = www-data

pm = dynamic
pm.max_children = 120
pm.start_servers = 12
pm.min_spare_servers = 6
pm.max_spare_servers = 18

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

Postgresql

Installation Postgresql

```
sudo apt install postgresql php8.2-pgsql
```

Création base / utilisateur

```
create database nextcloud;  
create user nextcloud with encrypted password 'monmotdepasse';  
grant all privileges on database nextcloud to nextcloud;
```

Redis

Installation Redis

```
sudo apt install redis-server php8.2-redis
```

Configuration Nextcloud

Nous éditons le fichier de configuration Nextcloud pour ajouter la configuration de Redis

```
sudo vi /var/www/cloud.grohub.org/config/config.php
```

```
'filelocking.enabled' => true,  
'memcache.locking' => '\\0C\\Memcache\\Redis',  
'memcache.local' => '\\0C\\Memcache\\Redis',  
'memcache.distributed' => '\\0C\\Memcache\\Redis',  
'redis' =>  
array (  
    'host' => 'localhost',  
    'port' => 6379,  
    'timeout' => 0.0,  
    'password' => '',  
) ,
```

Tuning

Tâches cron

Nous configurons cron

```
sudo -u www-data crontab -e
```

Nous ajoutons ceci à la fin du fichier

```
# Add the following line to the end of the file: (will call the cron script  
every 5 minutes)  
*/5 * * * * /usr/bin/php -f /var/www/cloud.grohub.org/cron.php
```


Pour gérer les thèmes

Si la gestion des thèmes est configurée, nous aurons besoin de manipuler des images

```
sudo apt install libmagickcore-6.q16-6 libmagickcore-6.q16-6-extra
```

Liens

- [documentation Nextcloud](#)
- [site de l'éditeur](#)

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Permanent link:

<https://wiki.grohub.org/infrastructure/services/cloud/nextcloud/installation>

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