Installation Nextcloud

cloud, Nextcloud

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
```

Nous y ajoutons ce contenu

```
upstream php-handler {
    server unix:/var/run/php/nextcloud.sock;
}

server {
    listen 80;
```

```
    server_name cloud.grohub.org;
  # enforce https
    return 301 https://$host$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/
    # NOTE: some settings below might be redundant
    ssl_certificate /etc/ssl/certs/cloud.grohub.org.pem;
    ssl_certificate_key /etc/ssl/private/cloud.grohub.org.key;

    # Add headers to serve security related headers
    # Before enabling Strict-Transport-Security headers please read into
this
    # topic first.
    #add_header Strict-Transport-Security "max-age=15768000;
includeSubDomains; preload;";
    #
    # 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 X-Content-Type-Options nosniff;
    add_header X-XSS-Protection "1; mode=block";
    add_header X-Robots-Tag none;
    add_header X-Download-Options noopen;
    add_header X-Permitted-Cross-Domain-Policies none;
    add_header Referrer-Policy no-referrer;

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

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

    # The following 2 rules are only needed for the user_webfinger app.
```

```
    # Uncomment it if you're planning to use this app.
    #rewrite ^/.well-known/host-meta /public.php?service=host-meta last;
    #rewrite ^/.well-known/host-meta.json /public.php?service=host-meta-json
last;

    # The following rule is only needed for the Social app.
    # Uncomment it if you're planning to use this app.
    #rewrite ^/.well-known/webfinger /public.php?service=webfinger last;

    location = /.well-known/carddav {
      return 301 $scheme://$host:$server_port/remote.php/dav;
    }
    location = /.well-known/caldav {
      return 301 $scheme://$host:$server_port/remote.php/dav;
    }

    # set max upload size
    client_max_body_size 512M;
    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/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;

    # Uncomment if your server is build with the ngx_pagespeed module
    # This module is currently not supported.
    #pagespeed off;

    location / {
        rewrite ^ /index.php$request_uri;
    }

    location ~ ^\/(?:build|tests|config|lib|3rdparty|templates|data)\/ {
        deny all;
    }
    location ~ ^\/(?:\.|autotest|occ|issue|indie|db_|console) {
        deny all;
    }
```

```
    location ~
^\/(?:index|remote|public|cron|core\/ajax\/update|status|ocs\/v[12]|updater\
/.+|oc[ms]-provider\/.+)\.php(?:$|\/) {
        fastcgi_split_path_info ^(.+?\.php)(\/.*|)$;
        include fastcgi_params;
        fastcgi_param SCRIPT_FILENAME $document_root$fastcgi_script_name;
        fastcgi_param PATH_INFO $fastcgi_path_info;
        fastcgi_param HTTPS on;
        # Avoid sending the security headers twice
        fastcgi_param modHeadersAvailable true;
        # Enable pretty urls
        fastcgi_param front_controller_active true;
        fastcgi_pass php-handler;
        fastcgi_intercept_errors on;
        fastcgi_request_buffering off;
    }

    location ~ ^\/(?:updater|oc[ms]-provider)(?:$|\/) {
        try_files $uri/ =404;
        index index.php;
    }

    # Adding the cache control header for js, css and map files
    # Make sure it is BELOW the PHP block
    location ~ \.(?:css|js|woff2?|svg|gif|map)$ {
        try_files $uri /index.php$request_uri;
        add_header Cache-Control "public, max-age=15778463";
        # Add headers to serve security related headers (It is intended to
        # have those duplicated to the ones above)
        # Before enabling Strict-Transport-Security headers please read into
        # this topic first.
        #add_header Strict-Transport-Security "max-age=15768000;
includeSubDomains; preload;";
        #
        # 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 X-Content-Type-Options nosniff;
        add_header X-XSS-Protection "1; mode=block";
        add_header X-Robots-Tag none;
        add_header X-Download-Options noopen;
        add_header X-Permitted-Cross-Domain-Policies none;
        add_header Referrer-Policy no-referrer;

        # Optional: Don't log access to assets
        access_log off;
    }
```

```
    location ~ \.(?:png|html|ttf|ico|jpg|jpeg|bcmap)$ {
        try_files $uri /index.php$request_uri;
        # Optional: Don't log access to other assets
        access_log off;
    }
}
```

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
```

Installation PHP

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

```
sudo aptitude install php7.3-fpm php-apcu php-apcu-bc php7.3-mysql php7.3-
zip php7.3-dom php7.3-xml php7.3-ldap php7.3-curl php7.3-mbstring php7.3-gd
php7.3-intl php7.3-imagick
```

Tuning

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
```

Dans le fichier /etc/php/7.3/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
```

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

Liens

- documentation Nextcloud