Image not found or type unknown

Digital Product WHMCS module

Provides the opportunity to sell digital products in WHMCS by sharing Nextcloud resources.

- Description
- Changelog
- Installation and configuration guide
  - WHMCS setup(install/update)
  - Setup guide: Nextcloud setup
  - Setup guide: WHMCS setup
  - Product Configuration
- Client Area
  - Home screen
- Admin Area
  - Product Information

Description

Digital Product module **WHMCS**

Order now | Download | FAQ

Preface

With this module, your company can offer customers the ability to purchase DIGITAL PRODUCTS, which they can then download from a Nextcloud cloud server.

The module is designed to create a personalized link for downloading a resource (folder) from a pre-configured Nextcloud server. It allows for the creation, blocking, and unblocking of access to digital products, and disables access in case of non-payment.

How It Works:

1. **Nextcloud Server Setup**:
   - Set up your Nextcloud server and create directories in the root directory for the digital products you want to sell to customers.
2. **Product Creation in WHMCS**:
   - Use the module to create products in WHMCS and specify the folder on the Nextcloud server that should be available for download to the customer after payment.
3. **Customer Purchase and Access**:
   - After a customer purchases and pays for a product, the module will create a personalized shared link to the purchased resource, allowing the customer to view and download the acquired digital product.
4. **Access Management**:
   - If the customer cancels the subscription or fails to make a payment, the module will automatically block the access link during the non-payment period. Once the payment is completed, the link to the resource will be unblocked.
   - In the event of service termination, the personalized shared link to the resource will be deleted.
5. **Security Options**:
   - The link can be configured to require a password or to be accessible without a password, providing flexibility in securing the shared resources.

This module integrates seamlessly with WHMCS, enabling efficient management and delivery of digital products through Nextcloud, ensuring your customers have a smooth and secure download experience.

> For the correct operation of the module, a pre-prepared Nextcloud installation is required (the module does not assist in the installation of the Nextcloud server and assumes that such installation is ready for operation through API.) Module use Nextcloud API to manage share.

> We have prepared a detailed installation manual for the module, including all the steps needed to implement the module, including the preparation of the Nextcloud server, including all installation steps such as NGNIX, PHP, Nextcloud, SSL certificates etc.

Functions:

- Auto Create/Suspend/Unsuspend/Terminate share url to download digital product
- The module uses only the API to manage Nextcloud share
- Module supports multilingualism **(Arabic, Azerbaijani, Catalan, Chinese, Croatian, Czech, Danish, Dutch, English, Estonian, Farsi, French, German, Hebrew, Hungarian, Italian, Macedonian, Norwegian, Polish, Romanian, Russian, Spanish, Swedish, Turkish, Ukrainian)**

Available options in the admin panel:

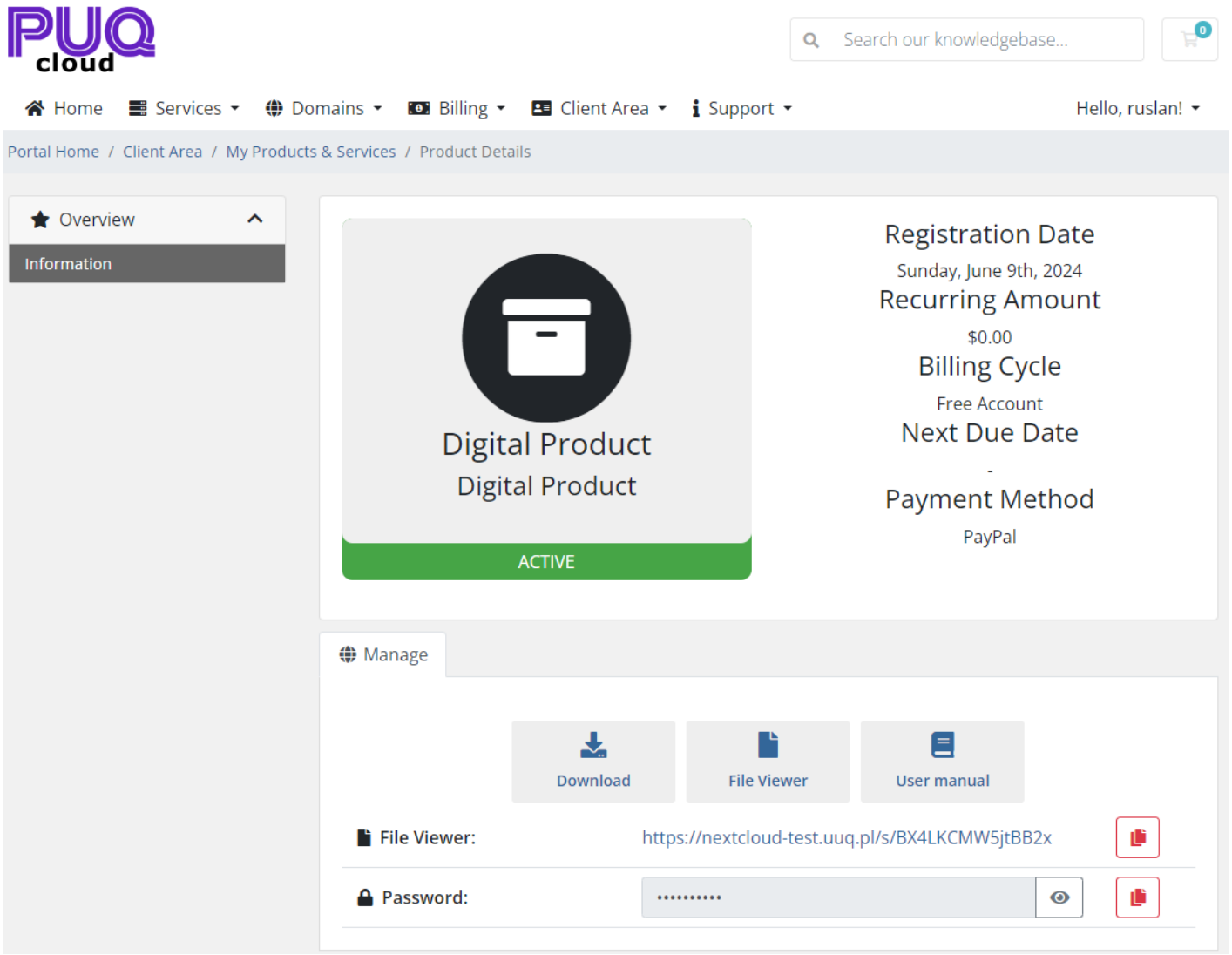
- Create
- Suspend
- Unsuspend
- Terminate
- API connection status

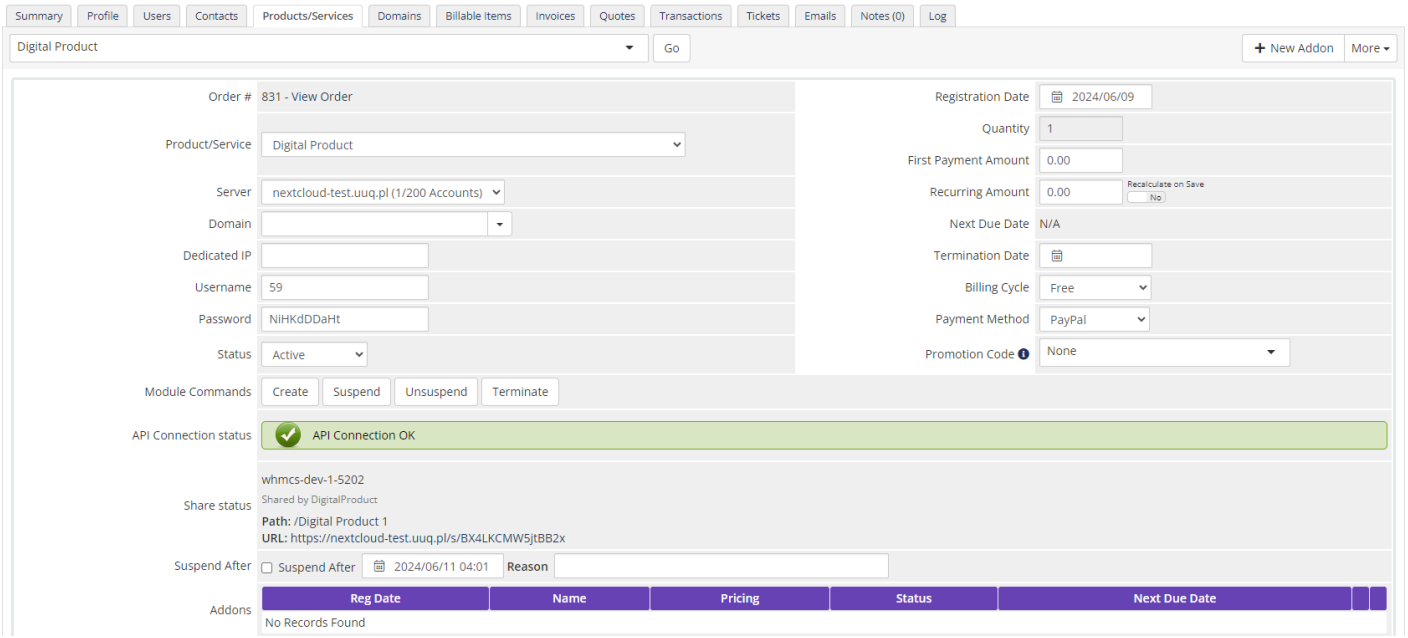
Available options in the client panel:

- URL to download
- URL to user manual

WHMCS minimal version: 8 +

Nextcloud minimal version: 20+




Summary
Profile
Users
Contacts
Products/Services
Domains
Billable Items
Invoices
Quotes
Transactions
Tickets
Emails
Notes (0)
Log
Digital Product
Go
+ New Addon
More
Order #
831 - View Order
Registration Date
2024/06/09
Product/Service
Digital Product
Quantity
1
First Payment Amount
0.00
Server
nextcloud-test.uuq.pl (1/200 Accounts)
Recurring Amount
0.00
Recalculate on Save
No
Domain
Next Due Date
N/A
Dedicated IP
Termination Date
Username
59
Billing Cycle
Free
Password
NiHKdDDaHt
Payment Method
PayPal
Status
Active
Promotion Code
None
Module Commands
Create
Suspend
Unsuspend
Terminate
API Connection status
API Connection OK
Share status
whmcs-dev-1-5202
Shared by DigitalProduct
Path: /Digital Product 1
URL: https://nextcloud-test.uuq.pl/s/BX4LKCMW5jtBB2x
Suspend After
Suspend After
2024/06/11 04:01
Reason
Addons
Reg Date
Name
Pricing
Status
Next Due Date
No Records Found

Changelog

Digital Product module **WHMCS**

Order now | Download | FAQ

v2.0 Released 23-09-2024

> **Module is coded ionCube v13**

Supported php version:

- php 7.4 WHMCS 8.11.0 -
- php 8.1 WHMCS 8.11.0 +
- php 8.2 WHMCS 8.11.0 +

---

v1.0 Released 09-06-2024

First version

Installation and configuration guide

Installation and configuration guide

WHMCS setup(install/update)

Digital Product module **WHMCS**

Order now | Download | FAQ

> **Module is coded ionCube v13**

Supported php version:

- php 7.4 WHMCS 8.11.0 -
- php 8.1 WHMCS 8.11.0 +
- php 8.2 WHMCS 8.11.0 +

> To install and update a module, you must perform one and the same action.

1. Download the latest version of the module.

PHP 8.2

```
wget http://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Digital-Product/php82/PUQ_WHMCS-Digital-Product-latest.zip
```

PHP 8.1

```
wget http://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Digital-Product/php81/PUQ_WHMCS-Digital-Product-latest.zip
```

PHP 7.4

```
wget http://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Digital-Product/php74/PUQ_WHMCS-Digital-Product-latest.zip
```

> All versions are available via link:
> http://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Digital-Product

2. Unzip the archive with the module.

```
unzip PUQ_WHMCS-Digital-Product-latest.zip
```

3. Copy and Replace "puqDigitalProduct" to "WHMCS_WEB_DIR/modules/servers/"

Setup guide: Nextcloud setup

Digital Product module **WHMCS**

Order now | Download | FAQ

Nextcloud including Nextcloud Office on Debian10 with nginx, MariaDB, PHP 8.1, Let's Encrypt, Redis, Fail2ban and ufw

1. Preparation and installation of the nginx web server

to install the following software packages as a necessary basis for server operation:

```
apt-get install -y apt-transport-https bash-completion bzip2 ca-certificates cron curl dialog dirmngr ffmpeg ghostscript git gpg gnupg gnupg2 htop jq libfile-fcntllock-perl libfontconfig1 libfuse2 locate lsb-release net-tools rsyslog screen smbclient socat software-properties-common ssl-cert tree unzip wget zip
```

Enter the future server name in both the hosts file and the hostname file

```
nano /etc/hosts
```

```
127.0.0.1 localhost
public_IP your.domain.de
```

The server name must be specified as an FQDN, i.e. fully qualified:

```
nano /etc/hostname
```

```
your.domain.de
```

```
reboot now
```

Make sure the **"debian-archive-keyring"** package is installed:

Add the nginx key to your server:

```
apt install -y debian-archive-keyring
curl https://nginx.org/keys/nginx_signing.key | gpg --dearmor | tee /usr/share/keyrings/nginx-archive-keyring.gpg >/dev/null
```

Add the software sources for nginx and PHP:

```
echo "deb [signed-by=/usr/share/keyrings/nginx-archive-keyring.gpg] http://nginx.org/packages/mainline/debian `lsb_release -cs` nginx" | tee /etc/apt/sources.list.d/nginx.list
echo "deb [arch=amd64] https://packages.sury.org/php/ $(lsb_release -cs) main" | tee /etc/apt/sources.list.d/php.list
```

In order to be able to trust the PHP sources as well, we also add this key:

```
wget -qO - https://packages.sury.org/php/apt.gpg | apt-key add -
```

Preparation of MariaDB – database server:

```
wget https://downloads.mariadb.com/MariaDB/mariadb_repo_setup
chmod +x mariadb_repo_setup && ./mariadb_repo_setup --mariadb-server-version="mariadb-10.8"
```

We are now updating the system and generating temporary "self-signed" certificates, which will later be replaced with full-fledged Let's Encrypt certificates.

Server update:

```
apt update && make-ssl-cert generate-default-snakeoil -y
```

To ensure that no relics from previous installations are interfering with the operation of the web server, we remove these:

```
apt remove nginx nginx-extras nginx-common nginx-full -y --allow-change-held-packages
```

We also make sure that the counterpart (Apache2) to the nginx web server is neither active nor installed.

```
systemctl stop apache2.service
systemctl disable apache2.service
```

Now the preparations for installing the web server are complete and we can install it with the following command

```
apt install -y nginx
```

and the service to start automatically after a system reboot using set up

```
systemctl enable nginx.service
```

With a view to future adjustments, the default configuration is saved and a new configuration file opened:

```
mv /etc/nginx/nginx.conf /etc/nginx/nginx.conf.bak
touch /etc/nginx/nginx.conf && nano /etc/nginx/nginx.conf
```

Copy all of the following content into the file:

```
user www-data;
worker_processes auto;
pid /var/run/nginx.pid;
events {
  worker_connections 2048;
  multi_accept on; use epoll;
  }
http {
  log_format criegerde escape=json
  '{'
    '"time_local":"$time_local",'
    '"remote_addr":"$remote_addr",'
    '"remote_user":"$remote_user",'
    '"request":"$request",'
    '"status": "$status",'
    '"body_bytes_sent":"$body_bytes_sent",'
```

```
    '"request_time":"$request_time",'
    '"http_referrer":"$http_referer",'
    '"http_user_agent":"$http_user_agent"'
  '}';
  access_log /var/log/nginx/access.log criegerde;
  error_log /var/log/nginx/error.log warn;
  #set_real_ip_from 127.0.0.1;
  real_ip_header X-Forwarded-For;
  real_ip_recursive on;
  include /etc/nginx/mime.types;
  default_type application/octet-stream;
  sendfile on;
  send_timeout 3600;
  tcp_nopush on;
  tcp_nodelay on;
  open_file_cache max=500 inactive=10m;
  open_file_cache_errors on;
  keepalive_timeout 65;
  reset_timedout_connection on;
  server_tokens off;
  resolver 127.0.0.53 valid=30s;
  resolver_timeout 5s;
  include /etc/nginx/conf.d/*.conf;
 }
```

Save the file and close it to then restart the web server:

```
systemctl restart nginx.service
```

In preparation for the SSL certificates and the web directories, we create four folders and set the correct permissions:

```
mkdir -p /var/log/nextcloud /var/nc_data /var/www/letsencrypt/.well-known/acme-challenge
/etc/letsencrypt/rsa-certs /etc/letsencrypt/ecc-certs
chown -R www-data:www-data /var/nc_data /var/www /var/log/nextcloud
```

The installation of the web server is thus already completed and we continue with the installation and the adjustments of PHP.

2. Installation and configuration of PHP 8.1 (fpm)

The PHP repository has already been set up and activated in the previous chapter, so we can start the installation directly.

```
apt update && apt install -y php-common \
php8.1-
{fpm,gd,curl,xml,zip,intl,mbstring,bz2,ldap,apcu,bcmath,gmp,imagick,igbinary,mysql,redis,smbcli
\
imagemagick --allow-change-held-packages
```

Optional (if you plan to use Samba and/or cifs shares or an LDAP(s) connection):

```
apt install -y ldap-utils nfs-common cifs-utils
```

Set the correct date format to enable correct logging as well:

```
timedatectl set-timezone Europe/Warsaw
```

Before we start optimizing PHP, let's back up the configuration files:

```
cp /etc/php/8.1/fpm/pool.d/www.conf /etc/php/8.1/fpm/pool.d/www.conf.bak
cp /etc/php/8.1/fpm/php-fpm.conf /etc/php/8.1/fpm/php-fpm.conf.bak
cp /etc/php/8.1/cli/php.ini /etc/php/8.1/cli/php.ini.bak
cp /etc/php/8.1/fpm/php.ini /etc/php/8.1/fpm/php.ini.bak
cp /etc/php/8.1/fpm/php-fpm.conf /etc/php/8.1/fpm/php-fpm.conf.bak
cp /etc/php/8.1/mods-available/apcu.ini /etc/php/8.1/mods-available/apcu.ini.bak
cp /etc/ImageMagick-6/policy.xml /etc/ImageMagick-6/policy.xml.bak
```

To adapt PHP to your system, some parameters are calculated, just execute the following lines:

```
AvailableRAM=$(awk '/MemAvailable/ {printf "%d", $2/1024}' /proc/meminfo)
AverageFPM=$(ps --no-headers -o 'rss,cmd' -C php-fpm8.1 | awk '{ sum+=$1 } END { printf
("%d\n", sum/NR/1024,"M") }')
FPMS=$((AvailableRAM/AverageFPM))
PMaxSS=$((FPMS*2/3))
PMinSS=$((PMaxSS/2))
PStartS=$(((PMaxSS+PMinSS)/2))
```

```
```

```
sed -i "s/;env\[HOSTNAME\] = /env[HOSTNAME] = /" /etc/php/8.1/fpm/pool.d/www.conf
sed -i "s/;env\[TMP\] = /env[TMP] = /" /etc/php/8.1/fpm/pool.d/www.conf
sed -i "s/;env\[TMPDIR\] = /env[TMPDIR] = /" /etc/php/8.1/fpm/pool.d/www.conf
sed -i "s/;env\[TEMP\] = /env[TEMP] = /" /etc/php/8.1/fpm/pool.d/www.conf
sed -i "s/;env\[PATH\] = /env[PATH] = /" /etc/php/8.1/fpm/pool.d/www.conf
sed -i 's/pm = dynamic/pm = static/' /etc/php/8.1/fpm/pool.d/www.conf
sed -i 's/pm.max_children =.*/pm.max_children = '$FPMS'/' /etc/php/8.1/fpm/pool.d/www.conf
sed -i 's/pm.start_servers =.*/pm.start_servers = '$PStartS'/'
/etc/php/8.1/fpm/pool.d/www.conf
sed -i 's/pm.min_spare_servers =.*/pm.min_spare_servers = '$PMinSS'/'
/etc/php/8.1/fpm/pool.d/www.conf
sed -i 's/pm.max_spare_servers =.*/pm.max_spare_servers = '$PMaxSS'/'
/etc/php/8.1/fpm/pool.d/www.conf
sed -i "s/;pm.max_requests =.*/pm.max_requests = 1000/" /etc/php/8.1/fpm/pool.d/www.conf
sed -i "s/allow_url_fopen =.*/allow_url_fopen = 1/" /etc/php/8.1/fpm/php.ini

sed -i "s/output_buffering =.*/output_buffering = 'Off'/" /etc/php/8.1/cli/php.ini
sed -i "s/max_execution_time =.*/max_execution_time = 3600/" /etc/php/8.1/cli/php.ini
sed -i "s/max_input_time =.*/max_input_time = 3600/" /etc/php/8.1/cli/php.ini
sed -i "s/post_max_size =.*/post_max_size = 10240M/" /etc/php/8.1/cli/php.ini
sed -i "s/upload_max_filesize =.*/upload_max_filesize = 10240M/" /etc/php/8.1/cli/php.ini
sed -i "s/;date.timezone.*/date.timezone = Europe\/\Berlin/" /etc/php/8.1/cli/php.ini
sed -i "s/;cgi.fix_pathinfo.*/cgi.fix_pathinfo=0/" /etc/php/8.1/cli/php.ini

sed -i "s/memory_limit = 128M/memory_limit = 1G/" /etc/php/8.1/fpm/php.ini
sed -i "s/output_buffering =.*/output_buffering = 'Off'/" /etc/php/8.1/fpm/php.ini
sed -i "s/max_execution_time =.*/max_execution_time = 3600/" /etc/php/8.1/fpm/php.ini
sed -i "s/max_input_time =.*/max_input_time = 3600/" /etc/php/8.1/fpm/php.ini
sed -i "s/post_max_size =.*/post_max_size = 10G/" /etc/php/8.1/fpm/php.ini
sed -i "s/upload_max_filesize =.*/upload_max_filesize = 10G/" /etc/php/8.1/fpm/php.ini
sed -i "s/;date.timezone.*/date.timezone = Europe\/\Berlin/" /etc/php/8.1/fpm/php.ini
sed -i "s/;cgi.fix_pathinfo.*/cgi.fix_pathinfo=0/" /etc/php/8.1/fpm/php.ini
sed -i "s/;session.cookie_secure.*/session.cookie_secure = True/" /etc/php/8.1/fpm/php.ini
sed -i "s/;opcache.enable=.*/opcache.enable=1/" /etc/php/8.1/fpm/php.ini
sed -i "s/;opcache.validate_timestamps=.*/opcache.validate_timestamps=0/"
/etc/php/8.1/fpm/php.ini
sed -i "s/;opcache.enable_cli=.*/opcache.enable_cli=1/" /etc/php/8.1/fpm/php.ini
sed -i "s/;opcache.memory_consumption=.*/opcache.memory_consumption=256/"
/etc/php/8.1/fpm/php.ini
sed -i "s/;opcache.interned_strings_buffer=.*/opcache.interned_strings_buffer=32/"
```

```
/etc/php/8.1/fpm/php.ini
sed -i "s/;opcache.max_accelerated_files=.*/opcache.max_accelerated_files=100000/"
/etc/php/8.1/fpm/php.ini
sed -i "s/;opcache.revalidate_freq=.*/opcache.revalidate_freq=60/" /etc/php/8.1/fpm/php.ini
sed -i "s/;opcache.save_comments=.*/opcache.save_comments=1/" /etc/php/8.1/fpm/php.ini

sed -i "s|;emergency_restart_threshold.*|emergency_restart_threshold = 10|g"
/etc/php/8.1/fpm/php-fpm.conf
sed -i "s|;emergency_restart_interval.*|emergency_restart_interval = 1m|g"
/etc/php/8.1/fpm/php-fpm.conf
sed -i "s|;process_control_timeout.*|process_control_timeout = 10|g" /etc/php/8.1/fpm/php-
fpm.conf

sed -i '$aapc.enable_cli=1' /etc/php/8.1/mods-available/apcu.ini

sed -i "s/rights=\"none\" pattern=\"PS\"/rights=\"read|write\" pattern=\"PS\"/"
/etc/ImageMagick-6/policy.xml
sed -i "s/rights=\"none\" pattern=\"EPS\"/rights=\"read|write\" pattern=\"EPS\"/"
/etc/ImageMagick-6/policy.xml
sed -i "s/rights=\"none\" pattern=\"PDF\"/rights=\"read|write\" pattern=\"PDF\"/"
/etc/ImageMagick-6/policy.xml
sed -i "s/rights=\"none\" pattern=\"XPS\"/rights=\"read|write\" pattern=\"XPS\"/"
/etc/ImageMagick-6/policy.xml
```

Now restart both services, nginx and PHP:

```
systemctl restart php8.1-fpm.service nginx.service
```

PHP is now already installed and optimized for Nextcloud. For more PHP optimizations. Let's start with the installation and configuration of the database server MariaDB.

3. Installation and configuration of MariaDB 10.8

MariaDB is installed with this command:

```
apt update && apt install -y mariadb-server
```

Now let's harden the database server using the supplied tool "mysql_secure_installation". With an initial installation, there is no root password, so you can confirm the query with ENTER. It is recommended to set a password directly, the corresponding dialog will appear automatically:

```
mysql_secure_installation
Enter current password for root (enter for none): <ENTER> or type the password
Switch to unix_socket authentication [Y/n] Y
Set root password? [Y/n] Y
Remove anonymous users? [Y/n] Y
Disallow root login remotely? [Y/n] Y
Remove test database and access to it? [Y/n] Y
Reload privilege tables now? [Y/n] Y
```

Now stop the database server and then save the default configuration so that you can make adjustments immediately afterwards:

```
systemctl stop mysql
mv /etc/mysql/my.cnf /etc/mysql/my.cnf.bak
nano /etc/mysql/my.cnf
```

Copy all of the following lines into the empty file:

```
[client]
default-character-set = utf8mb4
port = 3306
socket = /var/run/mysqld/mysqld.sock
[mysqld_safe]
log_error=/var/log/mysql/mysql_error.log
nice = 0
socket = /var/run/mysqld/mysqld.sock
[mysqld]
basedir = /usr
bind-address = 127.0.0.1
binlog_format = ROW
bulk_insert_buffer_size = 16M
character-set-server = utf8mb4
collation-server = utf8mb4_general_ci
concurrent_insert = 2
connect_timeout = 5
datadir = /var/lib/mysql
default_storage_engine = InnoDB
```

```
expire_logs_days = 2
general_log_file = /var/log/mysql/mysql.log
general_log = 0
max_connections = 200
max_heap_table_size = 64M
myisam_sort_buffer_size = 512M
port = 3306
pid-file = /var/run/mysqld/mysqld.pid
query_cache_limit = 2M
query_cache_size = 64M
query_cache_type = 1
query_cache_min_res_unit = 2k
read_buffer_size = 2M
read_rnd_buffer_size = 1M
skip-external-locking
skip-name-resolve
slow_query_log_file = /var/log/mysql/mariadb-slow.log
slow-query-log = 1
socket = /var/run/mysqld/mysqld.sock
sort_buffer_size = 4M
table_open_cache = 400
thread_cache_size = 128
tmp_table_size = 64M
tmpdir = /tmp
transaction_isolation = READ-COMMITTED
[isamchk]
key_buffer = 16M
```

Save and close the file and then restart the database server to set up the Nextcloud database, the Nextcloud user and its password:

```
systemctl restart mysql.service
mysql -uroot -p
CREATE DATABASE nextclouddb CHARACTER SET utf8mb4 COLLATE utf8mb4_general_ci; CREATE USER
nextclouddbuser@localhost identified by 'nextclouddbpassword'; GRANT ALL PRIVILEGES on
nextclouddb.* to nextclouddbuser@localhost; FLUSH privileges; quit;
```

> **Explanation** :
> Database name: **nextclouddb**

> Database user: **nextclouddbuser**
> Database user password: **nextclouddbpassword**

```
mysql -h localhost -uroot -p -e "SELECT @@TX_ISOLATION; SELECT SCHEMA_NAME 'database', default_character_set_name 'charset', DEFAULT_COLLATION_NAME 'collation' FROM information_schema.SCHEMATA WHERE SCHEMA_NAME='nextclouddb'"
```

4. Installing and configuring Redis

We install the Redis server to increase Nextcloud performance, as Redis reduces the load on the MariaDB Nextcloud database:

```
apt update && apt install -y redis-server
```

Customize the Redis configuration by backing up and customizing the configuration by running the following commands:

```
cp /etc/redis/redis.conf /etc/redis/redis.conf.bak
sed -i "s/port 6379/port 0/" /etc/redis/redis.conf
sed -i s/\#\ unixsocket/\unixsocket/g /etc/redis/redis.conf
sed -i "s/unixsocketperm 700/unixsocketperm 770/" /etc/redis/redis.conf
sed -i "s/# maxclients 10000/maxclients 10240/" /etc/redis/redis.conf
usermod -aG redis www-data
cp /etc/sysctl.conf /etc/sysctl.conf.bak
sed -i '$avm.overcommit_memory = 1' /etc/sysctl.conf
```

Based on sufficient installation experience, I recommend that you restart the entire server once:

```
reboot now
```

Congratulations, the server is already installed and set up, so you can start setting up the Nextcloud.

5. Installation and optimization of Nextcloud (incl. SSL)

> You need to replace **yourdomain.com** with your own domain

Certbot is a console based certificate generation tool for Let's Encrypt.

In this recipe, we will generate a Let's Encypt certificate using Certbot. This certificate will then be deployed for use in the Nextcloud server.

Install Certbot

```
sudo apt update
sudo apt-get install certbot python3-certbot-nginx
```

We will now set up various vhost, i.e. Swegterver configuration files, and modify the standard vhost file persistently. Since the system was previously restarted, we switch back to privileged user mode, save the default vhost file called default.conf and create empty vhost files for configuration.

```
sudo -s
[ -f /etc/nginx/conf.d/default.conf ] && mv /etc/nginx/conf.d/default.conf
/etc/nginx/conf.d/default.conf.bak
touch /etc/nginx/conf.d/nextcloud.conf
```

```
nano /etc/nginx/conf.d/nextcloud.conf
```

Copy all the following lines into the ***nextcloud.conf***

```
upstream php-handler {
  server unix:/run/php/php8.1-fpm.sock;
}

map $arg_v $asset_immutable {
  "" "";
  default "immutable";
}

server {
  listen 80 default_server;
  server_name nextcloud-test.uuq.pl;
  return 301 https://$host$request_uri;
}
```

```
server {
  listen 443      ssl http2;
  listen [::]:443 ssl http2;
  server_name yourdomain.com;

  ssl_certificate /etc/letsencrypt/live/yourdomain.com/fullchain.pem;
  ssl_certificate_key /etc/letsencrypt/live/yourdomain.com/privkey.pem;
  ssl_trusted_certificate /etc/letsencrypt/live/yourdomain.com/cert.pem;

  ssl_session_timeout 1d;
  ssl_session_cache shared:SSL:50m;
  ssl_session_tickets off;
  ssl_protocols TLSv1.3 TLSv1.2;
  ssl_ciphers 'TLS-CHACHA20-POLY1305-SHA256:TLS-AES-256-GCM-SHA384:ECDHE-RSA-AES256-GCM-SHA512:DHE-RSA-AES256-GCM-SHA512:ECDHE-RSA-AES256-GCM-SHA384:DHE-RSA-AES256-GCM-SHA384';
  ssl_ecdh_curve X448:secp521r1:secp384r1;
  ssl_prefer_server_ciphers on;
  ssl_stapling on;
  ssl_stapling_verify on;
  client_max_body_size 10G;
  client_body_timeout 3600s;
  fastcgi_buffers 64 4K;
  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;
  add_header Strict-Transport-Security           "max-age=15768000; includeSubDomains; preload;" always;
  add_header Permissions-Policy                  "interest-cohort=()";
  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                         "none"          always;
  add_header X-XSS-Protection                     "1; mode=block" always;
  fastcgi_hide_header X-Powered-By;
  root /var/www/nextcloud;
  index index.php index.html /index.php$request_uri;
  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;
  }
  location ^~ /apps/rainloop/app/data {
    deny all;
  }
  location ^~ /.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 $uri/ =404; }
    return 301 /index.php$request_uri;
  }
  location ~ ^/(?:build|tests|config|lib|3rdparty|templates|data)(?:$|/)  { return 404; }
  location ~ ^/(?:\.|autotest|occ|issue|indie|db_|console)                { return 404; }
  location ~ \.php(?:$|/) {
    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;
    fastcgi_param front_controller_active true;
    fastcgi_pass php-handler;
    fastcgi_intercept_errors on;
    fastcgi_request_buffering off;
    fastcgi_read_timeout 3600;
    fastcgi_send_timeout 3600;
    fastcgi_connect_timeout 3600;
    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, $asset_immutable";
    expires 6M;
    access_log off;
    location ~ \.wasm$ {
      default_type application/wasm;
    }
  }
  location ~ \.woff2?$ {
    try_files $uri /index.php$request_uri;
    expires 7d;
    access_log off;
  }
  location /remote {
    return 301 /remote.php$request_uri;
  }
  location / {
    try_files $uri $uri/ /index.php$request_uri;
  }
}
```

Generate Let's Encrypt cert

```
sudo certbot --nginx -d yourdomain.com
```

Restart **nginx** wer server

```
sudo service nginx restart
```

In order for the certificate to be updated automatically, you must add to the crontab

```
crontab -e
```

```
0 12 * * * /usr/bin/certbot renew --quiet
```

We now start the 'actual' installation of the Nextcloud software and set up the SSL certificates from Let's Encrypt using acme . To do this, switch to the working directory

```
cd /usr/local/src
```

and download the current Nextcloud release:

```
wget https://download.nextcloud.com/server/releases/latest.tar.bz2
wget https://download.nextcloud.com/server/releases/latest.tar.bz2.md5
```

Check the files:

```
md5sum -c latest.tar.bz2.md5 < latest.tar.bz2
```

Unpack the Nextcloud software into the web directory (var/www), then set the permissions appropriately and delete the download file:

```
tar -xjf latest.tar.bz2 -C /var/www && chown -R www-data:www-data /var/www/ && rm -f latest.tar.bz2
```

We can now proceed with setting up the Nextcloud. To do this, use the following "silent" installation command:

```
sudo -u www-data php /var/www/nextcloud/occ maintenance:install --database "mysql" --database-name "nextclouddb" --database-user "nextclouddbuser" --database-pass "nextclouddbpassword" --admin-user "YourNextcloudAdmin" --admin-pass "YourNextcloudAdminPasssword" --data-dir "/var/nc_data"
```

> ***Explanations:***
>
> database-name " **nextclouddb** " : database name from
>
> database-user “ **nextclouddbuser** ” : Database user from

> database-pass “ **nextclouddbpassword** ” : Database user password from
>
> admin-user “ **YourNextcloudAdmin** ” : freely selectable by you
>
> admin-pass “ **YourNextcloudAdminPasssword** ” : freely selectable by you

Wait until the installation of the Nextcloud has been completed and then adjust the central configuration file of the Nextcloud "config.php" as the web user www-data :

1. Add your domain as a trusted domain, adding your dedicated domain to your.domain.de :

```
sudo -u www-data php /var/www/nextcloud/occ config:system:set trusted_domains 0 --
value=ihre.domain.de
```

2. Set your domain as overwrite.cli.url, adding your.domain.de with your dedicated domain:

```
sudo -u www-data php /var/www/nextcloud/occ config:system:set overwrite.cli.url --
value=https://ihre.domain.de
```

Now we finally expand the Nextcloud configuration. To do this, first save the existing config.php and then execute the following lines in one block:

```
sudo -u www-data cp /var/www/nextcloud/config/config.php
/var/www/nextcloud/config/config.php.bak
sudo -u www-data touch /var/www/nextcloud/config/tweaks.config.php
```

```
nano /var/www/nextcloud/config/tweaks.config.php
```

```
<?php
$CONFIG = array (
  'activity_expire_days' => 14,
  'allow_local_remote_servers' => true,
  'auth.bruteforce.protection.enabled' => true,
  'blacklisted_files' =>
  array (
    0 => '.htaccess',
    1 => 'Thumbs.db',
    2 => 'thumbs.db',
  ),
  'cron_log' => true,
  'default_phone_region' => 'DE',
```

```
  'defaultapp' => 'files,dashboard',
  'enable_previews' => true,
  'enabledPreviewProviders' =>
  array (
    0 => 'OC\Preview\PNG',
    1 => 'OC\Preview\JPEG',
    2 => 'OC\Preview\GIF',
    3 => 'OC\Preview\BMP',
    6 => 'OC\Preview\PDF',
    7 => 'OC\Preview\MP3',
    8 => 'OC\Preview\TXT',
    9 => 'OC\Preview\MarkDown',
  ),
  'filesystem_check_changes' => 0,
  'filelocking.enabled' => 'true',
  'htaccess.RewriteBase' => '/',
  'integrity.check.disabled' => false,
  'knowledgebaseenabled' => false,
  'logfile' => '/var/log/nextcloud/nextcloud.log',
  'loglevel' => 2,
  'logtimezone' => 'Europe/Berlin',
  'log_rotate_size' => '104857600',
  'maintenance' => false,
  'maintenance_window_start' => 1,
  'overwriteprotocol' => 'https',
  'preview_max_x' => 1024,
  'preview_max_y' => 768,
  'preview_max_scale_factor' => 1,
  'profile.enabled' => false,
  'redis' =>
  array (
    'host' => '/var/run/redis/redis-server.sock',
    'port' => 0,
    'timeout' => 0.5,
    'dbindex' => 1,
  ),
  'quota_include_external_storage' => false,
  'share_folder' => '/Freigaben',
  'skeletondirectory' => '',
  'theme' => '',
```

```
  'trashbin_retention_obligation' => 'auto, 7',
  'updater.release.channel' => 'stable',
);
```

Modify the ".user.ini"

```
sudo -u www-data sed -i "s/output_buffering=.*/output_buffering=0/"
/var/www/nextcloud/.user.ini
```

and adjust the Nextcloud apps as user www-data

```
sudo -u www-data php /var/www/nextcloud/occ app:disable survey_client
sudo -u www-data php /var/www/nextcloud/occ app:disable firstrunwizard
sudo -u www-data php /var/www/nextcloud/occ app:enable admin_audit
sudo -u www-data php /var/www/nextcloud/occ app:enable files_pdfviewer
```

Optional Nextcloud Office:

```
sudo -u www-data /usr/bin/php /var/www/nextcloud/occ app:install richdocuments
sudo -u www-data /usr/bin/php /var/www/nextcloud/occ app:install richdocumentscode
```

Nextcloud is now fully operational, optimized and secured. Restart all relevant services:

```
systemctl stop nginx.service
systemctl stop php8.1-fpm.service
systemctl restart mysql.service
systemctl restart php8.1-fpm.service
systemctl restart redis-server.service
systemctl restart nginx.service
```

Set up a cronjob for Nextcloud as a “www-data” user:

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

Paste this line

```
*/5 * * * * php -f /var/www/nextcloud/cron.php > /dev/null 2>&1
```

Then save and close the file and reconfigure the Nextcloud job from "Ajax" to "Cron" using the Nextclouds CLI:

```
sudo -u www-data php /var/www/nextcloud/occ background:cron
```

Please take some time and check the security status of your server.

To avoid difficulties that can result from updating the components used, the relevant packages can be excluded from updating using "apt-mark hold":

```
apt-mark hold nginx*
apt-mark hold redis*
apt-mark hold mysql*
apt-mark hold galera*
apt-mark hold mariadb*
apt-mark hold php*
```

In order to include these packages again in the context of updates, only the "hold" has to be lifted:

```
apt-mark unhold nginx*
apt-mark unhold redis*
apt-mark unhold mysql*
apt-mark unhold galera*
apt-mark unhold mariadb*
apt-mark unhold php*
```

After updating, we recommend setting it to 'hold' again.

6. System hardening fail2banand ufw

```
apt update && apt install -y fail2ban
```

```
touch /etc/fail2ban/filter.d/nextcloud.conf
```

Copy everything from "cat..." to "...EOF" to your clipboard, then paste it into the shell:

```
cat <<EOF >/etc/fail2ban/filter.d/nextcloud.conf
[Definition]
_groupsre = (?:(?:,?\s*"\w+":(?:"[^"]+"|\w+))*)
failregex = ^\{%(_groupsre)s,?\s*"remoteAddr":"<HOST>"%(_groupsre)s,?\s*"message":"Login
failed:
            ^\{%(_groupsre)s,?\s*"remoteAddr":"<HOST>"%(_groupsre)s,?\s*"message":"Trusted
domain error.
datepattern = ,?\s*"time"\s*:\s*"%%Y-%%m-%%d[T]%%H:%%M:%%S(%%z)?"
```

```
EOF
```

Confirm with <ENTER> to fill the file. The result then looks like this:

```
cat /etc/fail2ban.d/nextcloud.conf
```

```
[Definition]
_groupsre = (?:(?:,?\s*"\w+":(?:"[^"]+"|\w+))*)
failregex = ^\{%(_groupsre)s,?\s*"remoteAddr":"<HOST>"%(_groupsre)s,?\s*"message":"Login failed:
            ^\{%(_groupsre)s,?\s*"remoteAddr":"<HOST>"%(_groupsre)s,?\s*"message":"Trusted domain error.
datepattern = ,?\s*"time"\s*:\s*"%%Y-%%m-%%d[T ]%%H:%%M:%%S(%%z)?"
```

Now create a new jail file

```
nano /etc/fail2ban/jail.d/nextcloud.local
```

Copy all of the following lines into it:

```
[nextcloud]
backend = auto
enabled = true
port = 80,443
protocol = tcp
filter = nextcloud
maxretry = 5
bantime = 3600
findtime = 36000
logpath = /var/log/nextcloud/nextcloud.log
```

Restart fail2ban and check the fail2ban status:

```
systemctl restart fail2ban.service
fail2ban-client status nextcloud
```

> If you have previously changed the SSH port from 22 to another port, you must replace 22 accordingly!

```
apt install -y ufw
ufw allow 80/tcp comment "LetsEncrypt(http)"
ufw allow 443/tcp comment "LetsEncrypt(https)"
ufw allow 22/tcp comment "SSH"
```

```
ufw enable
systemctl restart ufw.service
```

Setup guide: WHMCS setup

Digital Product module **WHMCS**

Order now | Download | FAQ

> **Module is coded ionCube v13**

Supported php version:

- php 7.4 WHMCS 8.11.0 -
- php 8.1 WHMCS 8.11.0 +
- php 8.2 WHMCS 8.11.0 +

> To install and update a module, you must perform one and the same action.

1. Download the latest version of the module.

PHP 8.2

```
wget http://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Digital-Product/php82/PUQ_WHMCS-Digital-Product-latest.zip
```

PHP 8.1

```
wget http://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Digital-Product/php81/PUQ_WHMCS-Digital-Product-latest.zip
```

PHP 7.4

```
wget http://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Digital-Product/php74/PUQ_WHMCS-Digital-Product-latest.zip
```

All versions are available via link:
http://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Digital-Product

2. Unzip the archive with the module.

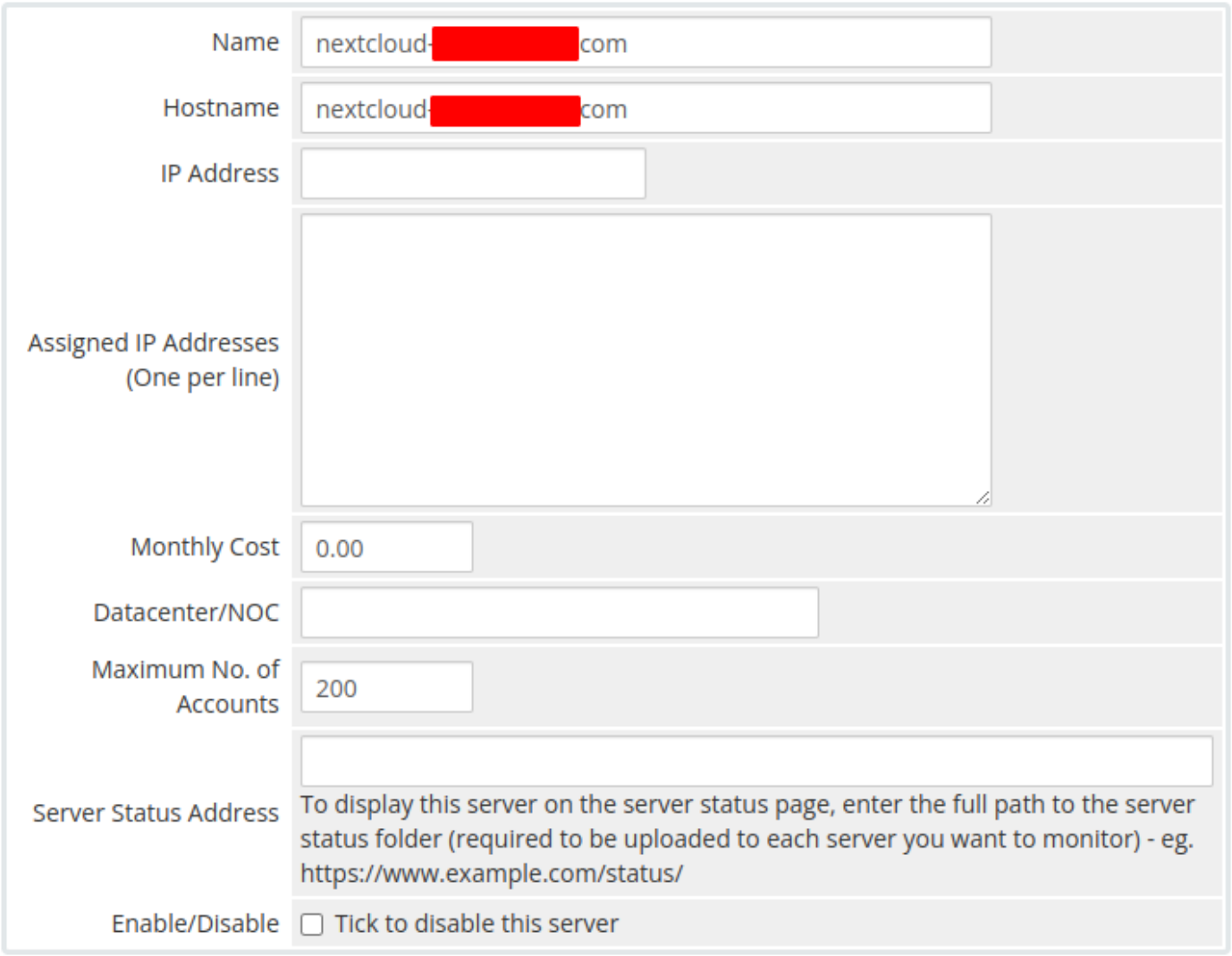
```
unzip PUQ_WHMCS-Digital-Product-latest.zip
```

3. Copy and Replace "puqDigitalProduct" to "WHMCS_WEB_DIR/modules/servers/"

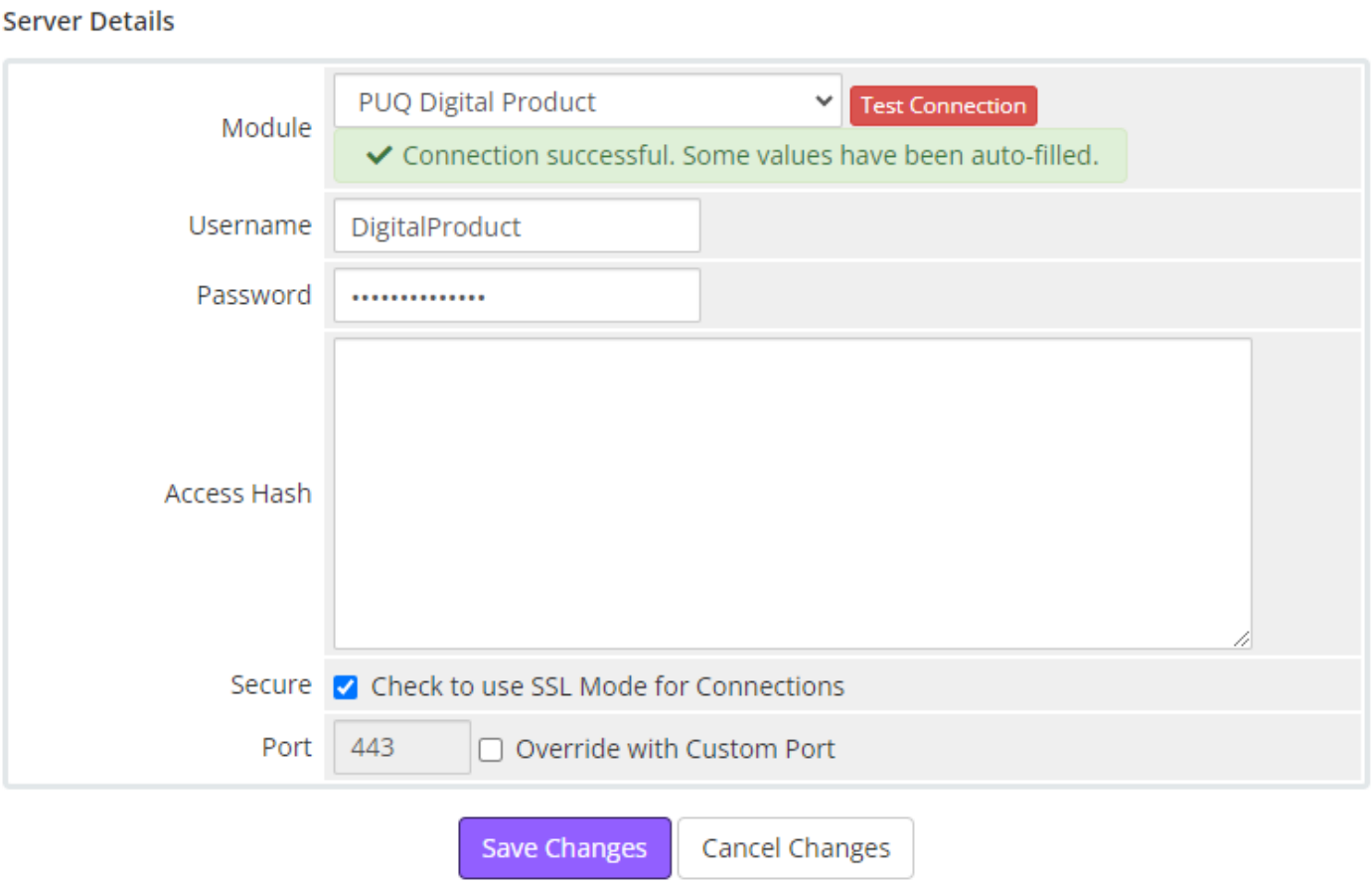
4. Create new server Nextcloud in WHMCS (System Settings->Products/Services->Servers)

```
System Settings->Servers->Add New Server
```

- Enter the correct **Name** and **Hostname**



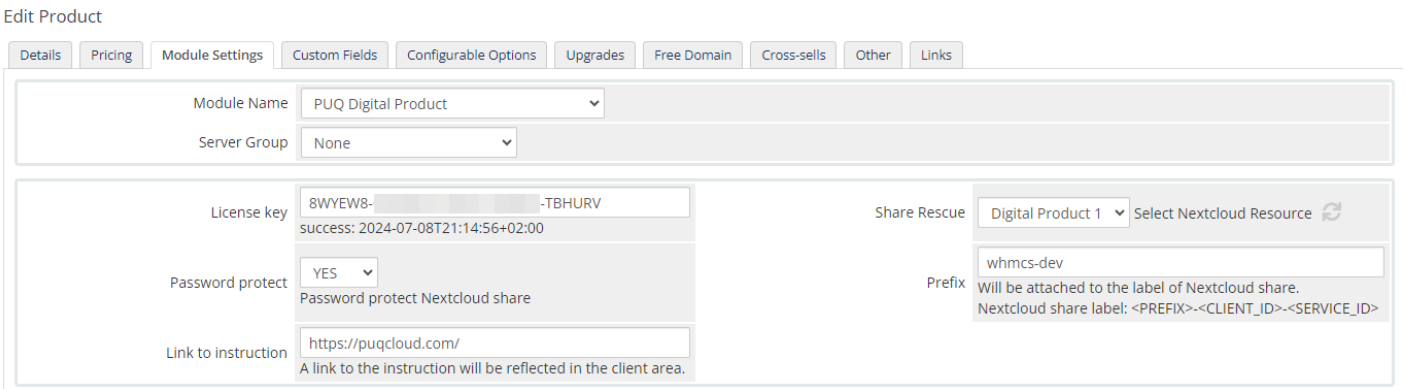
- In the **Server Details** section, select the "**PUQ Digital Product**" module and enter the correct **username** and **password** for the **Nextcloud web interface**.
- To check, click the **"Test connection"** button



5. Create a new Products/Services

```
System Settings->Products/Services->Create a New Product
```

In the **Module settings** section, select the **"PUQ Digital Product"** module



- **License key:** A pre-purchased license key for the **"PUQ Digital Product"** module. For the module to work correctly, the key must be active
- **Share Rescue:** Select the folder on the Nextcloud server that you offer as a Digital Product for downloading by the client after payment
- **Password protect:** If you want to protect the client's individual share with a password then select YES
- **Prefix:** The prefix is required to identify the client's shared link. An entry with the structure <PREFIX>-<CLIENT_ID>-<SERVICE_ID> will be added to the description of the

shared link on the nextcloud server to facilitate searching if necessary

- **Link to instruction:** Link to the instruction, if filled out, it will be reflected in the client area

Product Configuration

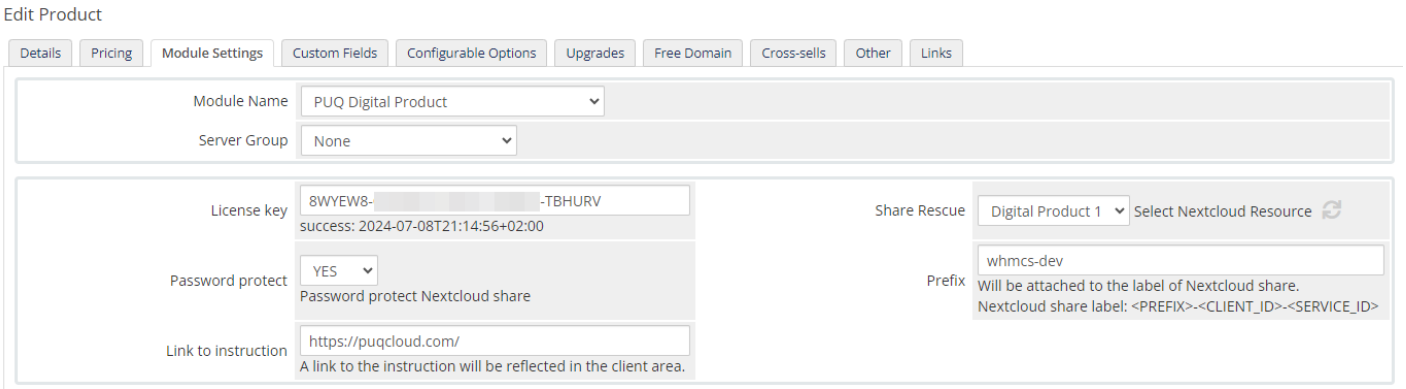
Digital Product module **WHMCS**

Order now | Download | FAQ

Create a new Products/Services

```
System Settings->Products/Services->Create a New Product
```

In the **Module settings** section, select the **"PUQ Digital Product"** module



- **License key:** A pre-purchased license key for the **"PUQ Digital Product"** module. For the module to work correctly, the key must be active
- **Share Rescue:** Select the folder on the Nextcloud server that you offer as a Digital Product for downloading by the client after payment
- **Password protect:** If you want to protect the client's individual share with a password then select YES
- **Prefix:** The prefix is required to identify the client's shared link. An entry with the structure <PREFIX>-<CLIENT_ID>-<SERVICE_ID> will be added to the description of the shared link on the nextcloud server to facilitate searching if necessary
- **Link to instruction:** Link to the instruction, if filled out, it will be reflected in the client area

Client Area

Home screen

Digital Product module **WHMCS**

Order now | Download | FAQ

The end customer, after logging in to his own customer panel, has access to the following information and options

- Download button for the Digital Product as an archive
- Иutton to go to the Nextcloud file manager to view files and download them
- Link to the user manual (*which was defined by the administrator when setting up the service.*).
- Link to Nextcloud file manager with a button that copies it to the clipboard
- You can see if the Nextcloud share is password protected, there is a field with the password and the ability to copy it to the clipboard

PUQ cloud

Search our knowledgebase...

Home | Services | Domains | Billing | Client Area | Support | Hello, ruslan!

Portal Home / Client Area / My Products & Services / Product Details

Overview

Information



Digital Product

Digital Product

ACTIVE

Registration Date

Sunday, June 9th, 2024

Recurring Amount

$0.00

Billing Cycle

Free Account

Next Due Date

-

Payment Method

PayPal

Manage

Download | File Viewer | User manual

File Viewer: https://nextcloud-test.uuq.pl/s/BX4LKCMW5jtBB2x

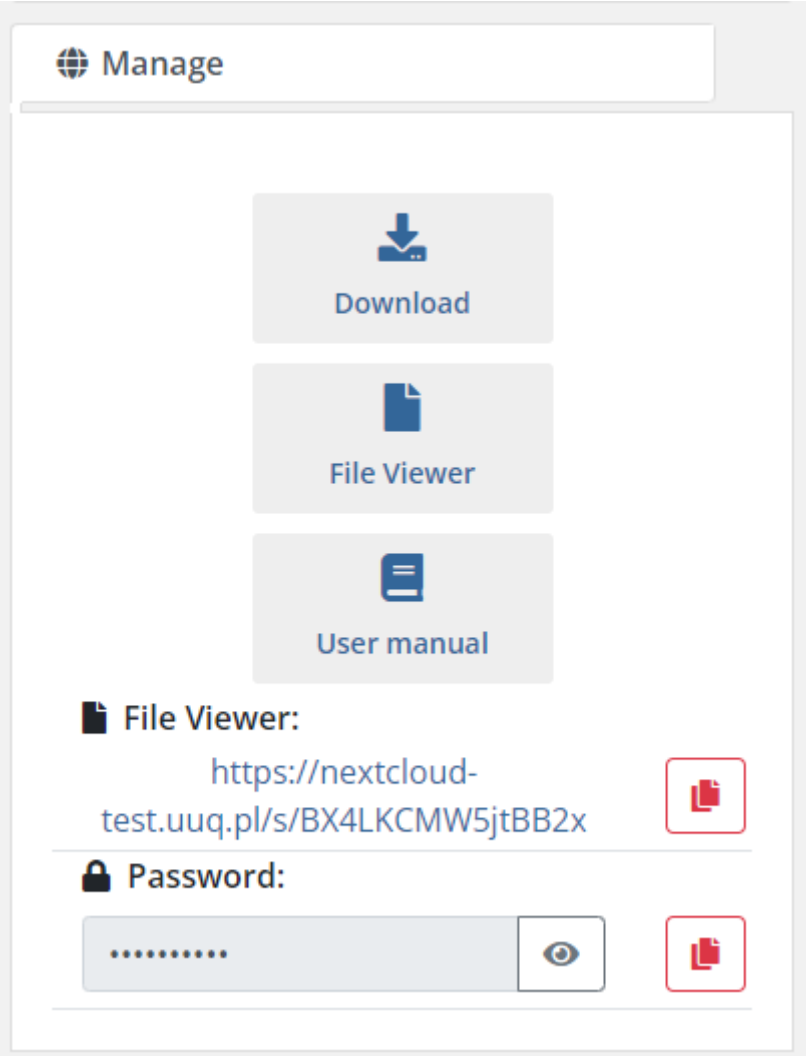
Password: ••••••••••

Manage

Download | File Viewer | User manual

File Viewer: https://nextcloud-test.uuq.pl/s/BX4LKCMW5jtBB2x

Password: ••••••••••


Manage
Download
File Viewer
User manual
File Viewer:
https://nextcloud-test.uuq.pl/s/BX4LKCMW5jtBB2x
Password:
••••••••••

Admin Area

Admin Area

Product Information

Digital Product module **WHMCS**

Order now | Download | FAQ

Here is the data presented for the service admin in WHMCS

