

Nextcloud WHMCS module

WHMCS module for Nextcloud that automates the provisioning and management of Nextcloud user accounts. The module supports automatic account creation, suspension, termination, password management, disk usage monitoring, and email notifications for disk space limits.

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Description

Nextcloud module **WHMCS**

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Nextcloud WHMCS module

The Nextcloud WHMCS module is a provisioning module that integrates WHMCS with Nextcloud servers, enabling cloud service providers to offer Nextcloud-based accounts to their customers. The module automates the full lifecycle of user account management through API integration with Nextcloud.

Main features

- **Automatic account provisioning** — auto create and deploy client Nextcloud accounts upon order activation
- **Account lifecycle management** — create, suspend, unsuspend, terminate, change password, and change package (upgrade/downgrade) for Nextcloud user accounts
- **Disk usage monitoring** — track and display disk usage statistics with historical data and configurable retention period
- **Email notifications** — automatic notifications when disk usage exceeds configurable thresholds, sent via WHMCS cron
- **Multi-language support** — 25 languages including Arabic, Catalan, Chinese, Croatian, Czech, Danish, Dutch, Estonian, Farsi, French, German, Hebrew, Hungarian, Italian, Macedonian, Norwegian, Polish, Romanian, Russian, Spanish, Swedish, Turkish, and Ukrainian
- **Client area integration** — customers can view server address, credentials with copy-to-clipboard, disk usage pie chart, usage statistics, and access user manual
- **Admin area tools** — administrators can view license status, API connection status, user details (username, enabled status, group, email), and disk usage with visual progress bar
- **Configurable username/password rules** — flexible rules for automatic username and password generation using macros (`{client_id}`, `{service_id}`, `{random_digit_x}`, `{random_letter_x}`, date/time macros)

- **Group management** — assign Nextcloud groups to users on the server side, automatic group creation
 - **Unlimited quota support** — set disk size to 0 for unlimited storage
 - **License verification** — built-in license system with online/offline verification and admin alerts
-

System requirements

Requirement	Minimum
WHMCS	9.x or higher
PHP	8.2 or higher
Nextcloud	20 or higher
ionCube Loader	v13 or newer (v14, v15)

Links

- **Product page:** <https://puqcloud.com/whmcs-module-nextcloud.php>
 - **Documentation:** <https://doc.puq.info/books/nextcloud-whmcs-module>
 - **Support:** <https://puqcloud.com/submitticket.php>
 - **Community:** <https://community.puqcloud.com/>
-

Screenshots

Client area — Home screen

User manual

Web interface address: <https://nextcloud-test.uuq.pl/>

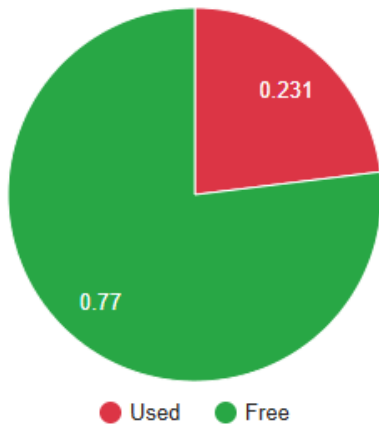
Username:



Password:



Used space (GB)



Disk limit: 1 GB

Disk used: 0.2305 GB

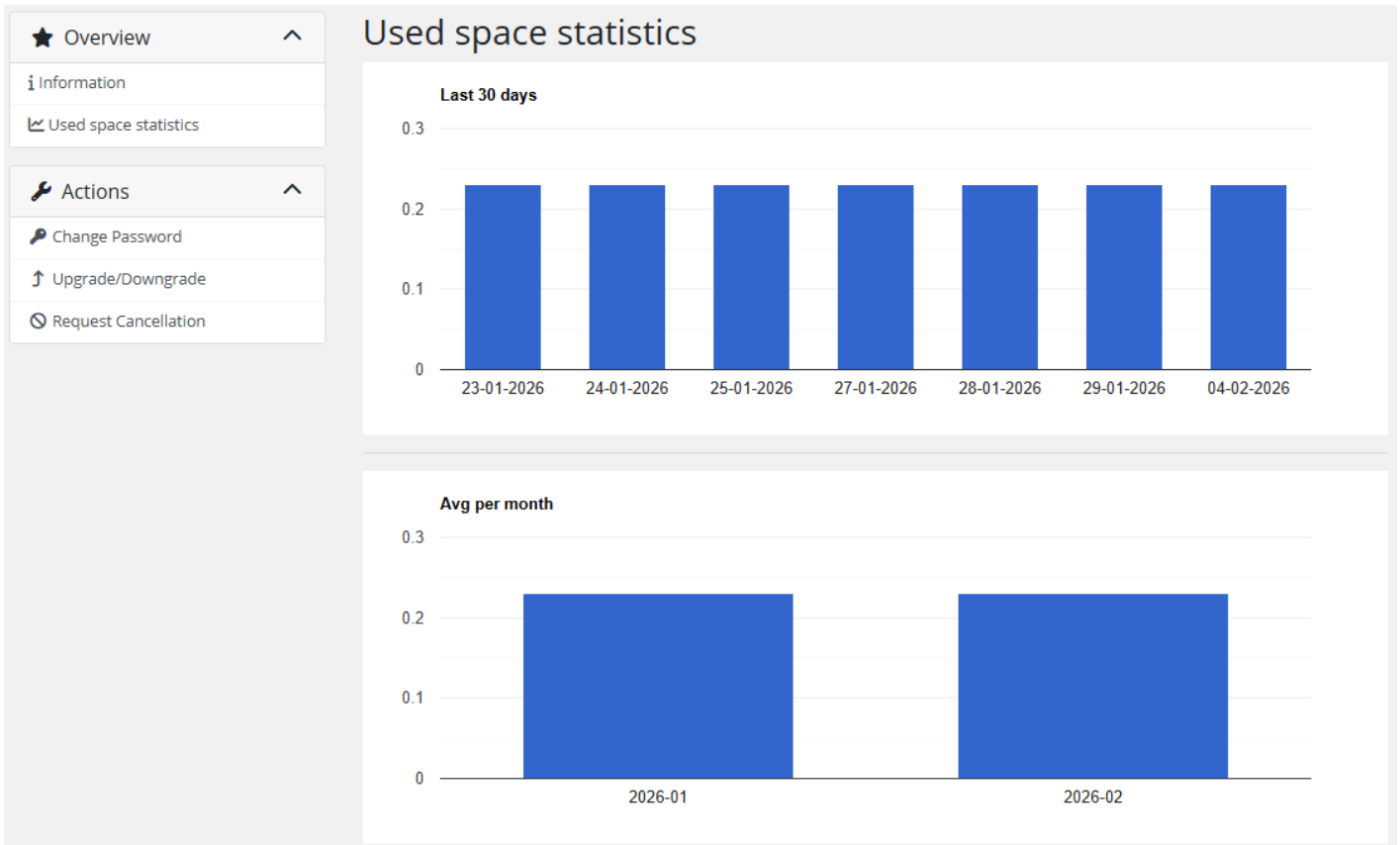
Disk free: 0.7695 GB

Disk used percentage: 23.05%

Disk free percentage: 76.95%

01-description-client-area.png

Client area — Disk statistics



02-description-disk-stats.png

Admin area — Product information

Nextcloud 1 GB
Go
+ New Addon More

Order # 1226 - View Order

Product/Service: Nextcloud 1 GB

Server: nextcloud-test.uuq.pl (2/200 Accounts)

Domain:

Dedicated IP:

Username:

Password:

Status: Active

Module Commands: Create Suspend Unsuspend Terminate Change Package Change Password

Registration Date: 23/01/2026

Quantity: 1

First Payment Amount: 1.00

Recurring Amount: 1.00 Recalculate on Save

Next Due Date: 23/02/2026

Termination Date:

Billing Cycle: Monthly

Payment Method: PayPal

Promotion Code: None

API Connection status: ✔ API Connection OK

User: ✔ Username: Enabled: YES Member of: ["USERS"] Email: ruslan.polovyi@puq.pl

Used: 23.05% 76.95%

Disk limit	Disk used	Disk free	Disk used percentage	Disk free percentage
1 GB	0.2305 GB	0.7695 GB	23.05 %	76.95 %

Addons:

Reg Date	Name	Pricing	Status	Next Due Date
No Records Found				

custom_Icon:

Subscription ID:

03-description-admin-area.png

Changelog

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v3.1 (01-03-2026)

- Added null coalescing checks for all array and superglobal accesses to prevent "Undefined array key" warnings
 - Added null-safe operators for object property access where object can be null
 - Fixed type safety for typed class properties (preventing `|TypeError|` on null assignment)
 - Added boundary checks for empty database query results
-

v3.0 (21-01-2026)

- Support for WHMCS 9+
- Redesigned product module settings
- Updated client area interface design

“ **Note:** Product reconfiguration is required after update.

v2.1 (31-07-2025)

- Fixed bug with uninitialized statistics data variables causing critical errors on statistics page (PHP 8.x)

v2.0 (23-09-2024)

- Module coded with ionCube v13
 - Supported PHP versions: 7.4, 8.1, 8.2
 - Compatible with WHMCS 8.11.0+
-

v1.5.1 (13-08-2024)

- Fixed password display bug when "Show password" set to "no"
-

v1.5 (06-06-2024)

- Mobile-optimized client area
 - Added copy buttons for login and password credentials
-

v1.4 (21-12-2023)

- Support for Nextcloud Hub 7 (28.0.0)
 - Server URL display with non-standard ports
 - Password visibility toggle options
 - Plain text password display capability
-

v1.3 (09-10-2023)

- Critical bug fix for incorrect client data
- Support for Nextcloud Hub 6 27.1.2
- 25 language translations added

v1.2 (05-03-2023)

- PHP 8.1 and 7.4 support
- Nextcloud Hub 3 v25 compatibility
- Template improvements with icons
- API timeout set to 30 seconds

v1.1 (05-01-2023)

- WHMCS V8.6 support
- IonCube PHP Loader v12 compatibility
- PHP 8.1 support
- Dropdown menu for email template selection
- Package change bug fix

v1.0 (01-08-2022)

- First release

Installation and Configuration Guide

Step-by-step instructions for installing, configuring, and setting up the Nextcloud WHMCS module, including Nextcloud server preparation, WHMCS integration, email templates, and product configuration.

WHMCS setup (install/update)

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System requirements

Requirement	Minimum version
PHP	8.2 or higher
WHMCS	9.x or higher
ionCube Loader	v13 or newer (v14, v15)

“ **Note:** The module uses ionCube encoding. Make sure ionCube Loader is installed and active on your server.

Download

The module can be ordered and downloaded from PUQ Cloud:

- **Order / Download:** <https://puqcloud.com/whmcs-module-nextcloud.php>
- **FAQ:** <https://faq.puqcloud.com/>
- **Direct download link for the latest version:**

```
wget https://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Nextcloud/php82/PUQ_WHMCS-
```

Nextcloud-latest.zip

“ Older module versions for WHMCS 8 are available in PHP-specific directories:

- PHP 7.4: https://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Nextcloud/php74/
- PHP 8.1: https://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Nextcloud/php81/

After downloading, extract the archive:

```
unzip PUQ_WHMCS-Nextcloud-latest.zip
```

Installation

Step 1: Upload files

Extract the module archive and copy the `puqNextcloud` directory to the WHMCS servers module directory:

```
WHMCS_WEB_DIR/modules/servers/puqNextcloud
```

Step 2: Add server

Navigate to **System Settings** → **Servers** → **Add New Server**:

1. Enter the correct **Name** and **Hostname**
2. In Server Details, select the **PUQ Nextcloud** module
3. Enter valid Nextcloud web interface credentials (username and password)
4. Click **Test connection** to verify

Step 3: Create product

Navigate to **System Settings** → **Products/Services** → **Create a New Product**:

1. Select the **PUQ Nextcloud** module in the Module settings section
 2. Configure the product parameters
-

Update

Step 1: Backup

Before updating, it is recommended to back up:

- WHMCS database
- Module files in `modules/servers/puqNextcloud/`

Step 2: Upload new files

Download and extract the new version, then overwrite all files in:

```
WHMCS_WEB_DIR/modules/servers/puqNextcloud/
```

Step 3: Verification

1. Log in to the WHMCS admin panel
2. Check the module is functioning correctly
3. Verify product settings

// Important (v3.0): Product reconfiguration is required after updating to version 3.0.

Setup guide: Nextcloud setup

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

This guide covers the complete installation and configuration of a Nextcloud server from scratch on Debian, including all required components.

1. Preparation and installation of nginx web server

Install required packages:

```
apt-get install -y \  
curl wget git apt-transport-https gnupg2 \  

```

```
imagemagick libmagickcore-6.q16-6 libmagickwand-6.q16-6 \  
software-properties-common dirmngr lsb-release ca-certificates \  
unzip
```

Configure hostname

Edit `/etc/hosts` with server IP and FQDN:

```
127.0.0.1 localhost  
YOUR_SERVER_IP your.domain.com
```

Edit `/etc/hostname`:

```
your.domain.com
```

Reboot the system:

```
reboot
```

Install nginx

Add the nginx repository and install:

```
apt-get install -y nginx
```

Remove conflicting web servers:

```
apt-get remove -y apache2
```

Enable and start nginx:

```
systemctl enable nginx  
systemctl start nginx
```

Configure nginx

Backup the default configuration and create a custom one:

```
cp /etc/nginx/nginx.conf /etc/nginx/nginx.conf.bak
```

Key nginx.conf settings include:

- Worker processes and connections
- JSON-formatted logging
- Real IP handling
- File caching parameters
- Security headers

Create required directories:

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

2. Installation and configuration of PHP 8.1 (FPM)

Install PHP packages:

```
apt-get install -y \  
php-common php8.1-fpm php8.1-gd php8.1-curl php8.1-xml \  
php8.1-zip php8.1-intl php8.1-mbstring php8.1-bz2 \  
php8.1-ldap php8.1-apcu php8.1-bcmath php8.1-gmp \  
php8.1-imagick php8.1-igbinary php8.1-mysql php8.1-redis \  
php8.1-smbclient php8.1-cli php8.1-opcache php8.1-readline \  
imagemagick
```

Optional packages for LDAP/Samba:

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

Configure timezone

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

Key PHP optimizations

Backup and configure PHP settings:

- **Memory limit:** 1G
 - **Max execution time:** 3600 seconds
 - **Upload max filesize:** 10G
 - **Post max size:** 10G
 - **OPCache enabled:** memory 256MB, max files 100000
 - Session cookie security enabled
 - ImageMagick policy permissions updated for PS, EPS, PDF, XPS files
-

3. Installation and configuration of MariaDB 10.8

Database security hardening

```
mysql_secure_installation
```

- Set root password
- Remove anonymous users
- Disable remote root login
- Remove test database

Database configuration

Custom MariaDB configuration (`|/etc/mysql/my.cnf|`):

- Character set: utf8mb4
- Default storage engine: InnoDB
- Max connections: 200
- Binlog format: ROW
- Transaction isolation: READ-COMMITTED

Create Nextcloud database

```
CREATE DATABASE nextclouddb CHARACTER SET utf8mb4 COLLATE utf8mb4_general_ci;  
CREATE USER nextcloudbuser@localhost identified by 'nextcloudbpassword';  
GRANT ALL PRIVILEGES on nextclouddb.* to nextcloudbuser@localhost;  
FLUSH privileges;
```

“ **Important:** Replace `nextcloudbpassword` with a strong password.

4. Installing and configuring Redis

Install and configure Redis:

```
apt-get install -y redis-server
```

Configuration:

- Port: disabled (set to 0)
- Unix socket enabled with permissions 770
- Max clients: 10240

```
usermod -aG redis www-data
```

Set kernel parameter:

```
echo "vm.overcommit_memory = 1" >> /etc/sysctl.conf
```

“ Reboot the system before Nextcloud installation.

5. Installation and optimization of

Nextcloud (incl. SSL)

Certbot and Let's Encrypt setup

```
apt-get install -y certbot python3-certbot-nginx
```

nginx vhost configuration

Create `/etc/nginx/conf.d/nextcloud.conf` with:

- Upstream handler: PHP-FPM socket
- HTTP to HTTPS redirect
- SSL certificates from Let's Encrypt
- TLS 1.2 and 1.3 protocols
- Client max body size: 10G
- GZIP compression
- Security headers (HSTS, X-Frame-Options, etc.)
- Nextcloud-specific location blocks

Generate SSL certificate

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

Auto-renewal crontab:

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

Install Nextcloud

Download and verify:

```
cd /usr/local/src
wget https://download.nextcloud.com/server/releases/latest.zip
wget https://download.nextcloud.com/server/releases/latest.zip.md5
md5sum -c latest.zip.md5 < latest.zip
```

Extract and set permissions:

```
unzip latest.zip -d /var/www
chown -R www-data:www-data /var/www/nextcloud
```

Silent installation

```
sudo -u www-data php /var/www/nextcloud/occ maintenance:install \
--database "mysql" \
--database-name "nextcloud" \
--database-user "nextcloud" \
--database-pass "nextcloudpassword" \
--admin-user "YourNextcloudAdmin" \
--admin-pass "YourNextcloudAdminPassword" \
--data-dir "/var/nc_data"
```

Configure trusted domain

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

CLI URL configuration

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

Extended configuration

Create `/var/www/nextcloud/config/tweaks.config.php` with settings including:

- Activity expiration: 14 days
- Authentication bruteforce protection enabled
- Blacklisted files: .htaccess, Thumbs.db
- Default phone region
- Preview providers: PNG, JPEG, GIF, BMP, PDF, MP3, TXT, Markdown
- Redis configuration with Unix socket
- Trashbin retention: auto, 7 days

- Logging: file at `/var/log/nextcloud/nextcloud.log`, level 2
- Log rotation: 100MB

App management

```
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 installation:

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

Restart services

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

Set up cron

As www-data user:

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

Reconfigure to cron mode:

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

Pin packages

Prevent unwanted package updates:

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

```
[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)?"
```

15-nextcloud-setup.png

6. System hardening with Fail2ban and UFW

Fail2ban configuration

Install Fail2ban:

```
apt-get install -y fail2ban
```

Create Nextcloud filter (`/etc/fail2ban/filter.d/nextcloud.conf`):

- Regex patterns for login failures
- Trusted domain errors
- Date pattern for JSON log format

Create Nextcloud jail (`/etc/fail2ban/jail.d/nextcloud.local`):

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

UFW firewall configuration

```
ufw allow 80/tcp comment "LetsEncrypt(http)"
```

```
ufw allow 443/tcp comment "LetsEncrypt(https) "
```

```
ufw allow 22/tcp comment "SSH"
```

```
ufw enable
```

Setup guide: WHMCS setup

Nextcloud module **WHMCS**

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PHP	8.2 or higher
WHMCS	9.x or higher
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“ **Note:** The module uses ionCube encoding. Make sure ionCube Loader is installed and active on your server.

“ Older module versions for WHMCS 8 are available in PHP-specific directories:

- PHP 7.4: https://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Nextcloud/php74/
- PHP 8.1: https://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Nextcloud/php81/

Step 1: Download the module

```
wget https://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Nextcloud/php82/PUQ_WHMCS-Nextcloud-latest.zip
```

Step 2: Extract the archive

```
unzip PUQ_WHMCS-Nextcloud-latest.zip
```

Step 3: Copy module files

Copy the `|puqNextcloud|` directory to:

```
WHMCS_WEB_DIR/modules/servers/
```

Step 4: Add server in WHMCS

Navigate to **System Settings** → **Servers** → **Add New Server**

1. Enter the correct **Name** and **Hostname**
2. In the Server Details section, select the **PUQ Nextcloud** module
3. Enter valid Nextcloud web interface credentials (username and password)
4. Click **Test connection** to verify the connection

Name	<input type="text" value="nextcloud- [REDACTED] .com"/>
Hostname	<input type="text" value="nextcloud- [REDACTED] .com"/>
IP Address	<input type="text"/>
Assigned IP Addresses (One per line)	<div style="border: 1px solid #ccc; height: 100px;"></div>
Monthly Cost	<input type="text" value="0.00"/>
Datacenter/NOC	<input type="text"/>
Maximum No. of Accounts	<input type="text" value="200"/>
Server Status Address	<input type="text"/> To display this server on the server status page, enter the full path to the server status folder (required to be uploaded to each server you want to monitor) - eg. https://www.example.com/status/
Enable/Disable	<input type="checkbox"/> Tick to disable this server

04-add-server-1.png

Server Details

Module	PUQ Nextcloud <input type="button" value="Test Connection"/>
	✓ Connection successful. Some values have been auto-filled.
Username	admin
Password	*****
Access Hash	
Secure	<input checked="" type="checkbox"/> Tick to use SSL Mode for Connections
Port	443 <input type="checkbox"/> Override with Custom Port

05-add-server-2.png

Step 5: Create product in WHMCS

Navigate to **System Settings** → **Products/Services** → **Create a New Product**

Select the **PUQ Nextcloud** module in the Module settings section.

Module Name	PUQ Nextcloud
Server Group	None
License key	success: 2026-03-04T15:11:11+01:00

Disk

Disk size

Allocated disk space for Nextcloud in selected unit

Disk unit

Unit for the allocated disk space

History & Group

Save history (days)

Number of days to keep usage statistics in WHMCS

Group

Group assigned to the user in Nextcloud

Client Area

Link to instruction

A link to the instruction will be reflected in the client area.

Show password

Defines how the password is displayed in the client area

Notifications

Notify at %

Threshold to notify the user about low disk space

Email template

Email template used for low disk space notifications

User

Username rule

Username template using macros.

Base macros:

{client_id} - Client ID
{service_id} - Service ID

Random macros:

{random_digit_x} - Random digits, where x is length
(example: {random_digit_4})
{random_letter_x} - Random letters (A-Z, a-z), where x is length
(example: {random_letter_6})

Date & time macros:

{unixtime}, {year}, {month}, {day}, {hour}, {minute}, {second}

Example:

{client_id}-{service_id}-{random_digit_4}

Password rule

Password generation rule in format **length:charset**.

Example:

12:1234567890

This will generate a 12-character password using the provided characters.

06-whmcs-setup.png

Email Template

(puqNextcloud notification disk limit)

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Creating the email template

Navigate to **System Settings** → **Email Templates** → **Create New Email Template**

Template configuration

Parameter	Value
Email Type	Product/service
Unique Name	puqNextcloud Notification disk limit

Email subject

```
Disk space usage {$disk_used_percentage} % - {$username}
```

Email body

Dear `{client_name}`,

We would like to inform you that the disk space usage for your product/service has reached the notification threshold.

Product/Service: `{service_product_name}`

Due Date: `{service_next_due_date}`

Username: `{username}`

Disk Limit: `{disk_limit}`

Disk Used: `{disk_used}` (`{disk_used_percentage}`%)

Disk Free: `{disk_free}` (`{disk_free_percentage}`%)

Please take the necessary actions to manage your disk space.

`{signature}`

Available template variables

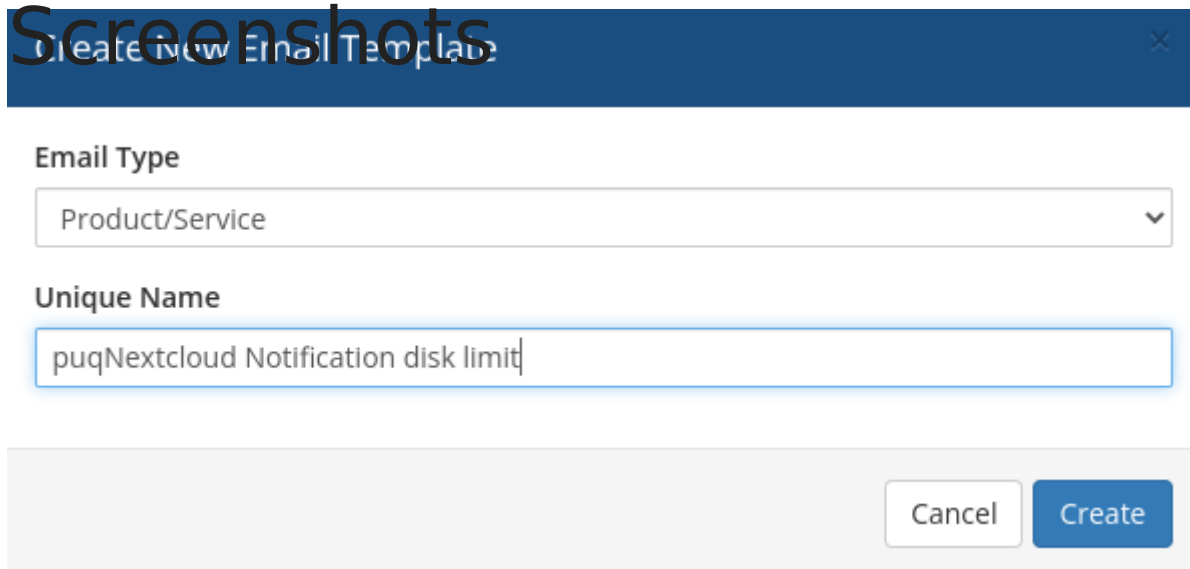
The following custom variables are passed to the email template by the module:

Variable	Description	Example
<code>{username}</code>	Nextcloud username	john-42
<code>{disk_limit}</code>	Total disk quota with unit	10 GB
<code>{disk_used}</code>	Used disk space with unit	8.5 GB
<code>{disk_free}</code>	Free disk space with unit	1.5 GB
<code>{disk_used_percentage}</code>	Used space as percentage	85
<code>{disk_free_percentage}</code>	Free space as percentage	15

In addition, all standard WHMCS product/service merge fields are available (e.g. `{client_name}`, `{service_product_name}`, `{service_next_due_date}`, `{signature}`).

Note: Notifications are sent automatically during the WHMCS daily cron execution when disk usage reaches the threshold configured in the product settings ("Notify at %").

Screenshots



Create New Email Template

Email Type

Product/Service

Unique Name

puqNextcloud Notification disk limit

Cancel Create



07-email-



template-1.png


















Subject:




Disk space usage $\{\$disk_used_percentage\}$ % - $\{\$username\}$

File ▾ Edit ▾ View ▾ Insert ▾ Format ▾ Table ▾ Help ▾

Paragraph ▾ Verdana ▾ 11pt ▾ **B** *I* ~~S~~ U A ▾ **A** ▾  

 ▾  ▾

         ▾        

Dear $\{\$client_name\}$,


This letter informs you that the disk space usage limit is coming to an end.

Product/Service: $\{\$service_product_name\}$
Due Date: $\{\$service_next_due_date\}$

Username: $\{\$username\}$

Disk limit: $\{\$disk_limit_bytes*\$unit_coefficient\}$ $\{\$unit\}$
Disk used: $\{\$disk_used_unit\}$ $\{\$unit\}$ ($\{\$disk_used_percentage\}$ %)
Disk free: $\{\$disk_free_unit\}$ $\{\$unit\}$ ($\{\$disk_free_percentage\}$ %)

$\{\$signature\}$

55 WORDS POWERED BY TINYMCE 

08-email-template-2.png

Add server (Nextcloud server)

Nextcloud module **WHMCS**

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Adding a Nextcloud server to WHMCS

Navigate to **System Settings** → **Servers** → **Add New Server**

Step 1: General settings

Enter the correct **Name** and **Hostname** for your Nextcloud server.

- **Name** — a descriptive name for the server (e.g. "Nextcloud Production")
- **Hostname** — the domain name or IP address of your Nextcloud installation (e.g. `cloud.example.com`)

If your Nextcloud uses a non-standard port, enter it in the **Port** field. Check the **Secure** checkbox if your server uses HTTPS (recommended).

Name	<input type="text" value="nextcloud- [REDACTED] com"/>
Hostname	<input type="text" value="nextcloud- [REDACTED] com"/>
IP Address	<input type="text"/>
Assigned IP Addresses (One per line)	<input type="text"/>
Monthly Cost	<input type="text" value="0.00"/>
Datacenter/NOC	<input type="text"/>
Maximum No. of Accounts	<input type="text" value="200"/>
Server Status Address	<input type="text"/> To display this server on the server status page, enter the full path to the server status folder (required to be uploaded to each server you want to monitor) - eg. https://www.example.com/status/
Enable/Disable	<input type="checkbox"/> Tick to disable this server

04-add-server-1.png

Step 2: Module settings

1. In the Server Details section, select the **PUQ Nextcloud** module from the dropdown
2. Enter valid credentials for the Nextcloud web interface:
 - **Username** — Nextcloud administrator username
 - **Password** — Nextcloud administrator password
3. Click **Test connection** to verify the connection is working correctly

The test connection verifies that the module can reach the Nextcloud OCS API (</ocs/v1.php/cloud/users/>) and authenticate with the provided credentials.

Server Details

Module	PUQ Nextcloud <input type="button" value="Test Connection"/>
	✓ Connection successful. Some values have been auto-filled.
Username	admin
Password	*****
Access Hash	
Secure	<input checked="" type="checkbox"/> Tick to use SSL Mode for Connections
Port	443 <input type="checkbox"/> Override with Custom Port

05-add-server-2.png

“ **Important:** The Nextcloud user must have **administrator privileges** to manage users via the API. The module uses the Nextcloud OCS API v1 with HTTP Basic Authentication to create, modify, suspend, and delete user accounts.

Product Configuration

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Add new product to WHMCS

Navigate to **System Settings** → **Products/Services** → **Create a New Product**

Select the **PUQ Nextcloud** module in the Module settings section.

Configuration parameters

Parameter	Description
License key	A pre-purchased license key for the PUQ Nextcloud module. The license must be active for correct operation. After saving, the verification status is displayed below the field.
Disk size	Allocated disk space for the Nextcloud user. Set to 0 for unlimited quota. Minimum value: 0.
Disk unit	Unit used for the allocated disk space. Available options: MB, GB, TB, PB .
Notify at %	Disk usage threshold in percent (1-100). A notification email is sent when usage reaches this value. Default: 90 . Set to 0 to disable notifications.
Email template	Email template used for low disk space notifications. Select from available Product/service type email templates. The template must be created manually in WHMCS (see Email Template page).

Parameter	Description
Save history (days)	Number of days to store disk usage statistics in WHMCS. Older records are automatically deleted during cron execution.
Group	Nextcloud group assigned to the user on the server side. The group is created automatically if it does not exist. When changing packages, the user is removed from all groups and added to the new group.
Username rule	Rule for automatic username generation using macros (see below). Default: <code>{client_id}-{service_id}</code> .
Password rule	Password generation rule in <code>[length: charset]</code> format (see below). Default: <code>[12: 123456789QAZWSXEDCRFVTGBYHNUJMIKqazwsxedcr fvtgbyhnujmiokl</code> <code>.</code>
Link to instruction	URL to instructions displayed as a button in the client area. Leave empty to hide the button.
Show password	Defines how the password is shown in the client area. Options: Show button (hidden by default, revealed on click), Plain text (always visible), No (hidden, no option to reveal).

Username rule — available macros

The username is generated automatically when a new account is created. You can use the following macros:

Macro	Description	Example
<code>{client_id}</code>	WHMCS client ID	123
<code>{service_id}</code>	WHMCS service ID	456
<code>{unixtime}</code>	Current Unix timestamp	1707638400
<code>{year}</code>	Current year	2026
<code>{month}</code>	Current month (01-12)	02
<code>{day}</code>	Current day (01-31)	12
<code>{hour}</code>	Current hour (00-23)	14
<code>{minute}</code>	Current minute (00-59)	30
<code>{second}</code>	Current second (00-59)	45
<code>{random_digit_x}</code>	x random digits (0-9)	<code>{random_digit_4}</code> → 7394
<code>{random_letter_x}</code>	x random letters (A-Z, a-z)	<code>{random_letter_6}</code> → aBcDeF

Examples:

- `{client_id}-{service_id}` → `123-456`
- `nc-{random_digit_6}` → `nc-384729`
- `user-{client_id}-{random_letter_4}` → `user-123-aBcD`

“ **Note:** If the generated username already exists on the Nextcloud server, the module automatically appends a counter: `username-1`, `username-2`, etc.

Password rule — format

The password rule uses the format `length: charset`, where:

- **length** — number of characters to generate
- **charset** — set of characters to use

Examples:

- `12: abcdefghijklmnopqrstuvwxyz0123456789` — 12 lowercase alphanumeric characters
- `16: ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789` — 16 mixed-case alphanumeric
- `20: 0123456789` — 20 digits only

“ If no rule is specified, a 12-character password is generated from a default character set.

Important notes

“ **Warning:** This module works only as a **server module** (Products/Services). It cannot be used as an addon product. Attempting to use it with addon products will result in an error.

Screenshot

The screenshot displays the configuration page for the 'PUQ Nextcloud' module. At the top, there are dropdown menus for 'Module Name' (set to 'PUQ Nextcloud') and 'Server Group' (set to 'None'). Below these is a 'License key' field containing the text 'success: 2026-03-04T15:11:11+01:00'. The main configuration area is divided into several sections:

- Disk:** Includes 'Disk size' (set to 1) and 'Disk unit' (set to GB). A note states: 'Allocated disk space for Nextcloud in selected unit'.
- History & Group:** Includes 'Save history (days)' (set to 31) and 'Group' (set to USERS). A note states: 'Number of days to keep usage statistics in WHMCS' and 'Group assigned to the user in Nextcloud'.
- Client Area:** Includes 'Link to instruction' (set to 'https://puqcloud.com/') and 'Show password' (set to 'Plain text'). A note states: 'A link to the instruction will be reflected in the client area.' and 'Defines how the password is displayed in the client area'.
- Notifications:** Includes 'Notify at %' (set to 10) and 'Email template' (set to 'puqNextcloud Notification disk limit'). A note states: 'Threshold to notify the user about low disk space' and 'Email template used for low disk space notifications'.
- User:** Includes 'Username rule' (set to '{client_id}-{service_id}-{second}') and 'Base macros' (listing {client_id} and {service_id}). It also lists 'Random macros' (like {random_digit_x}) and 'Date & time macros' (like {unixtime}). An 'Example' shows the result of the username rule: '{client_id}-{service_id}-{random_digit_4}'. The 'Password rule' is set to '20:123456789QAZWSXEDCQWERTYUasdfghjzxcvbnmHGFVDCSDXAS'. A note states: 'Password generation rule in format length:charset'. An 'Example' shows the result: '12:1234567890'. A final note states: 'This will generate a 12-character password using the provided characters.'

09-product-configuration.png

Client Area

Overview of the client-facing features available in the Nextcloud WHMCS module, including the home screen, email notifications, and disk usage statistics.

Home screen

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Client area home screen

The end customer, after logging in to the client panel, sees the service management page with the following sections:

Service information

- **User manual** — a button linking to the instruction URL (only displayed if configured by the administrator in product settings, "Link to instruction" field)
- **Web interface address** — clickable link to the Nextcloud server (automatically handles HTTPS/HTTP and non-standard ports)
- **Username** — the Nextcloud username with a **copy-to-clipboard** button
- **Password** — displayed according to the "Show password" product setting:
 - **Show button** — password is hidden by default, revealed when the user clicks the show button; copy-to-clipboard button is always available
 - **Plain text** — password is always visible in plain text; copy-to-clipboard button available
 - **No** — password is completely hidden with no option to reveal

Disk usage

- **Pie chart** — visual representation of used vs. free disk space (powered by Google Charts)
- **Data table** with the following fields:
 - Disk limit (displays "Unlimited" if quota is set to 0)
 - Disk used
 - Disk free
 - Disk used percentage

- Disk free percentage

Sidebar navigation

The client area sidebar contains two menu items:

- **Information** — the main service details page (described above)
- **Used space statistics** — historical disk usage charts (see [Disk statistics](#) page)

“ **Note:** If the service status is not Active or if the Nextcloud user cannot be found, an error page is displayed instead.

Screenshot

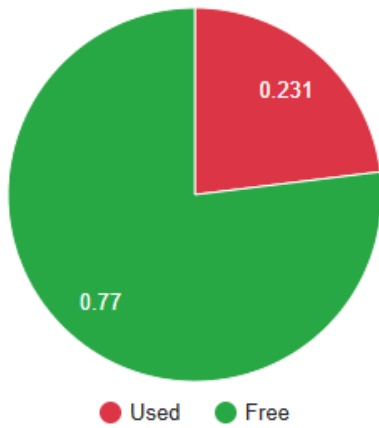
User manual

Web interface address: <https://nextcloud-test.uuq.pl/>

Username:

Password:

Used space (GB)



Disk limit:	1 GB
Disk used:	0.2305 GB
Disk free:	0.7695 GB
Disk used percentage:	23.05%
Disk free percentage:	76.95%

10-home-screen.png

Email notification

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Email notification example

Below you can see an example of an email notification regarding data limit.

When the customer's disk usage exceeds the configured notification threshold (set in the product configuration as "Notify at %"), the system automatically sends an email notification using the configured email template.

Screenshot

This letter informs you that the disk space usage limit is coming to an end.

Product/Service: **Nextcloud 10 GB**

Due Date: **21-08-2022**

Username: **next-1-4729-cloud**

Disk limit: **10 GB**

Disk used: **9.2288 GB (92.29 %)**

Disk free: **0.7712 GB (7.71 %)**

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11-email-notification.png

Disk statistics

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Disk usage statistics

The client can check the data usage statistics in the menu item "**Used space statistics**".

The statistics page displays two charts:

Last 30 days

A column chart showing daily disk usage for the last 30 days. Each bar represents the amount of disk space used on that day.

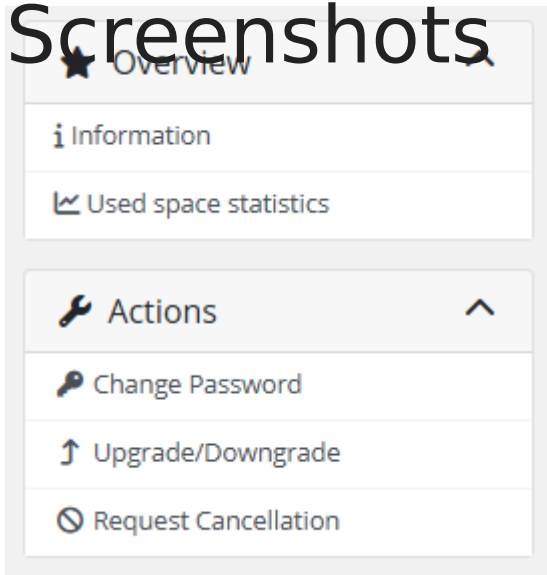
Average per month

A column chart showing the average monthly disk usage. This provides a long-term overview of storage consumption trends.

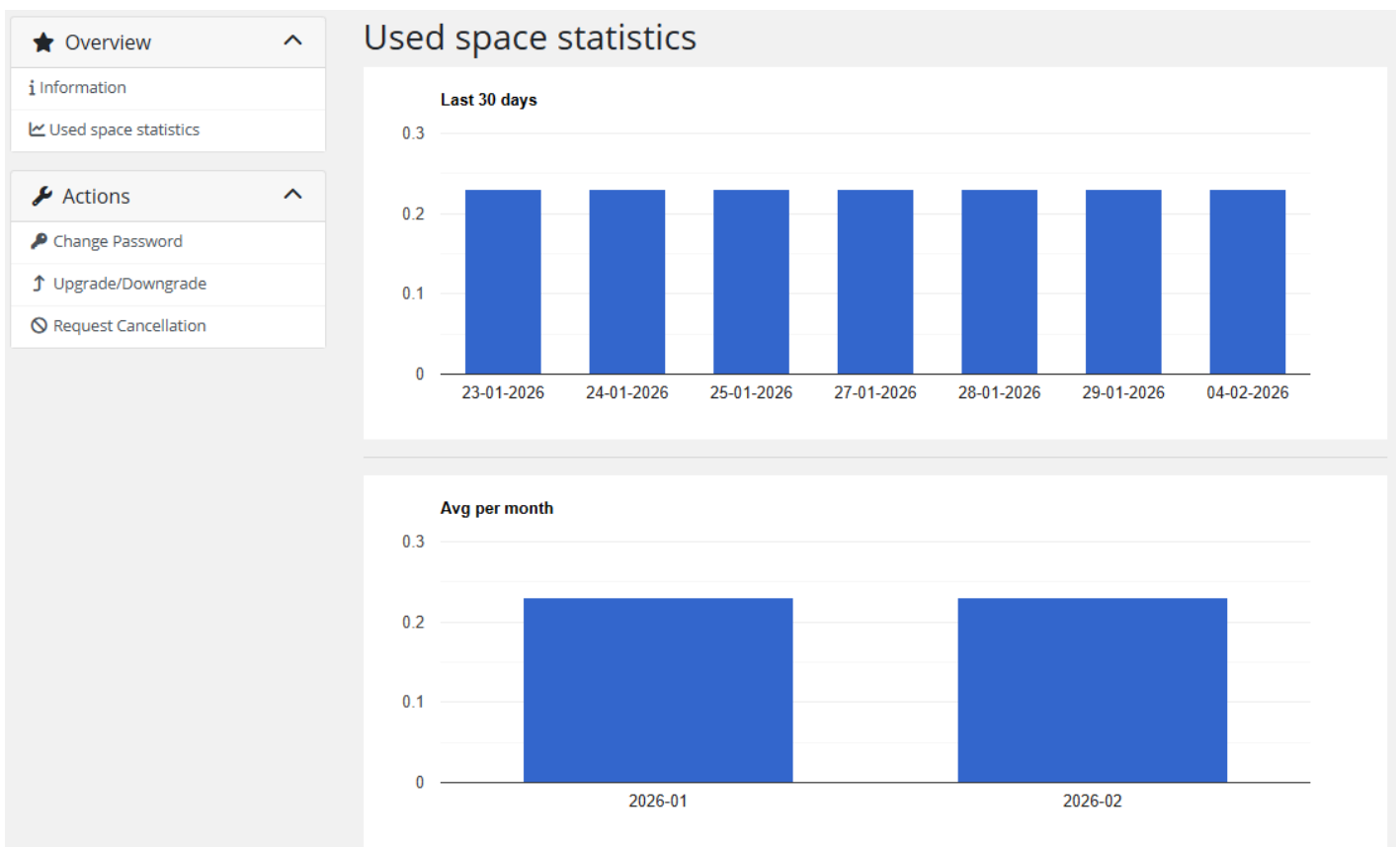
Both charts are powered by Google Charts and automatically resize to fit the browser window. The data is collected by the WHMCS cron job and stored in the database for the number of days configured in the product settings ("Save history" parameter).

“ **Note:** Statistics data is only available after the WHMCS cron has run at least once with the UsageUpdate function. The retention period is configurable per product in the "Save history (days)" setting.

Screenshots



12-disk-statistics-1.png



13-disk-statistics-2.png

Admin Area

Administrative features and tools available in the WHMCS admin panel for managing Nextcloud services.

Product Information

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Admin area product information

The administrator can view detailed service information in the WHMCS admin panel on the product/service page. The module adds a custom panel in the **Module Data** section with the following information:

License verification status

Displays the current license status with a colored indicator:

- **Green** — license is valid and active
- **Red** — license is invalid, expired, or missing

API connection status

Shows the result of a real-time connection test to the Nextcloud server, confirming that the API credentials are working correctly.

User information

Field	Description
Username	The Nextcloud username assigned to this service
Enabled	Whether the user account is currently enabled or disabled
Group	The Nextcloud group(s) the user belongs to

Field	Description
Email	The email address associated with the Nextcloud account

Disk usage

- **Visual progress bar** — a colored bar showing the proportion of used vs. free disk space
- **Detailed table** with:
 - Disk limit (total allocated quota)
 - Disk used (current usage)
 - Disk free (remaining space)
 - Disk used percentage
 - Disk free percentage

Available management actions

The standard WHMCS module command buttons are available:

- **Create** — provision a new Nextcloud account
 - **Suspend** — disable the Nextcloud user
 - **Unsuspend** — re-enable the Nextcloud user
 - **Terminate** — permanently delete the Nextcloud user
 - **Change Password** — reset the user's password
 - **Change Package** — update disk quota and group assignment (used during upgrades/downgrades)
-

Screenshot

Order #	1226 - View Order	Registration Date	23/01/2026										
Product/Service	Nextcloud 1 GB	Quantity	1										
Server	nextcloud-test.uuq.pl (2/200 Accounts)	First Payment Amount	1.00										
Domain		Recurring Amount	1.00 <small>Recalculate on Save</small>										
Dedicated IP		Next Due Date	23/02/2026										
Username		Termination Date											
Password		Billing Cycle	Monthly										
Status	Active	Payment Method	PayPal										
Module Commands	Create Suspend Unsuspend Terminate Change Package Change Password												
API Connection status	API Connection OK												
User	Username: Enabled: YES Member of: ["USERS"] Email: ruslan.polovyi@puq.pl												
Used	<div style="display: flex; width: 100%;"><div style="width: 23.05%; background-color: red;"></div><div style="width: 76.95%; background-color: green;"></div></div>												
Info about used space	<table border="1"><thead><tr><th>Disk limit</th><th>Disk used</th><th>Disk free</th><th>Disk used percentage</th><th>Disk free percentage</th></tr></thead><tbody><tr><td>1 GB</td><td>0.2305 GB</td><td>0.7695 GB</td><td>23.05 %</td><td>76.95 %</td></tr></tbody></table>			Disk limit	Disk used	Disk free	Disk used percentage	Disk free percentage	1 GB	0.2305 GB	0.7695 GB	23.05 %	76.95 %
Disk limit	Disk used	Disk free	Disk used percentage	Disk free percentage									
1 GB	0.2305 GB	0.7695 GB	23.05 %	76.95 %									
Addons	<table border="1"><thead><tr><th>Reg Date</th><th>Name</th><th>Pricing</th><th>Status</th><th>Next Due Date</th></tr></thead><tbody><tr><td colspan="5">No Records Found</td></tr></tbody></table>			Reg Date	Name	Pricing	Status	Next Due Date	No Records Found				
Reg Date	Name	Pricing	Status	Next Due Date									
No Records Found													
custom_icon													
Subscription ID													

14-product-information.png