ownCloud WHMCS module

WHMCS module for ownCloud that automates the provisioning and management of ownCloud 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

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ownCloud WHMCS module

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

Main features

- **Automatic account provisioning** — auto create and deploy client ownCloud accounts upon order activation
- **Account lifecycle management** — create, suspend, unsuspend, terminate, change password, and change package (upgrade/downgrade) for ownCloud 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 ownCloud 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

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System requirements

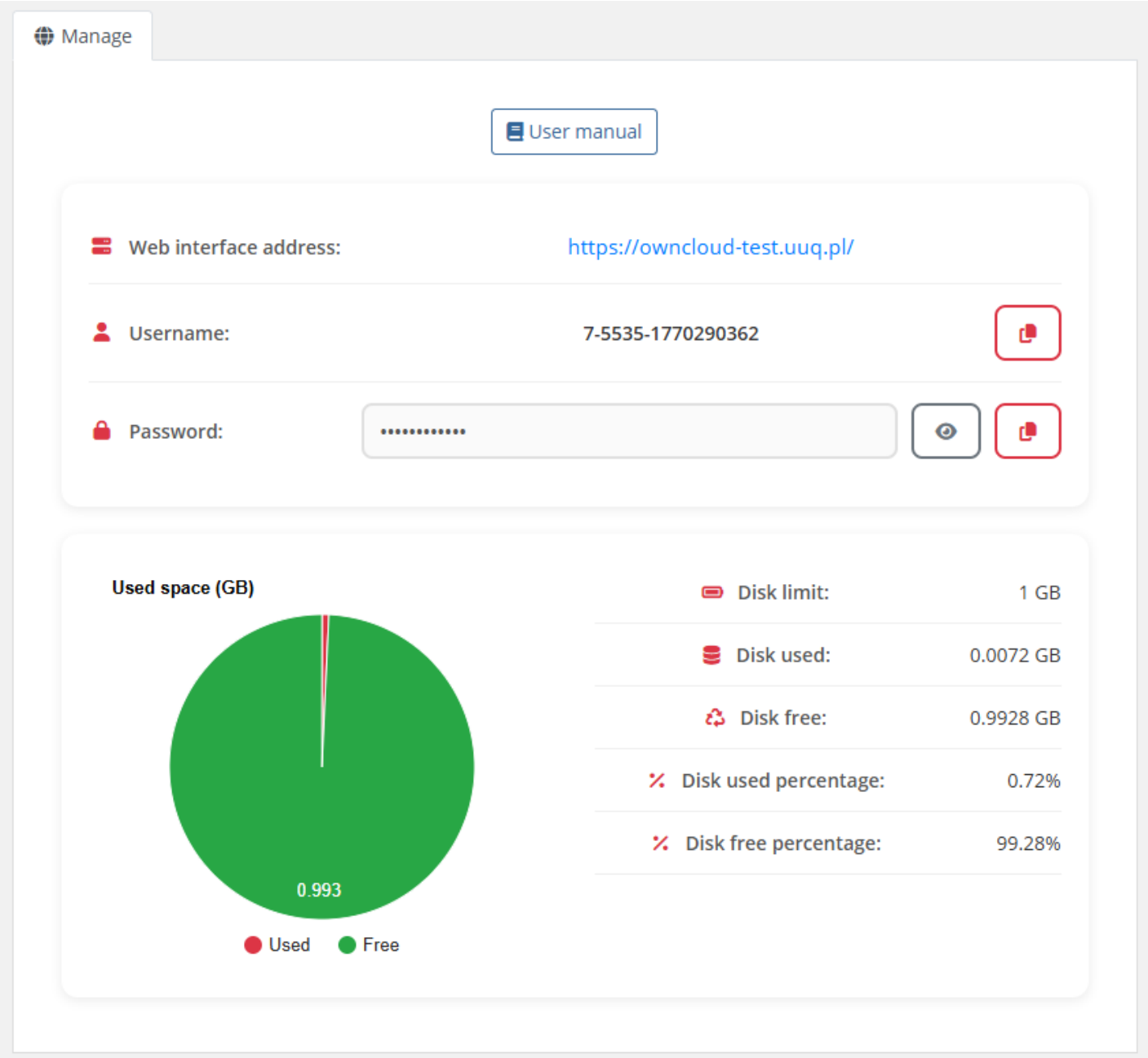
Requirement	Minimum
WHMCS	8.x+, 9.x+
PHP	7.4, 8.1, 8.2, 8.3, 8.4
ownCloud	10.x or higher
ionCube Loader	v15+

Links

- **Product page:** https://puqcloud.com/whmcs-module-owncloud.php
- **Documentation:** https://doc.puq.info/books/owncloud-whmcs-module
- **Download:** https://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-ownCloud/
- **Support:** https://puqcloud.com/submitticket.php
- **Community:** https://community.puqcloud.com/

Screenshots

Client area — Home screen



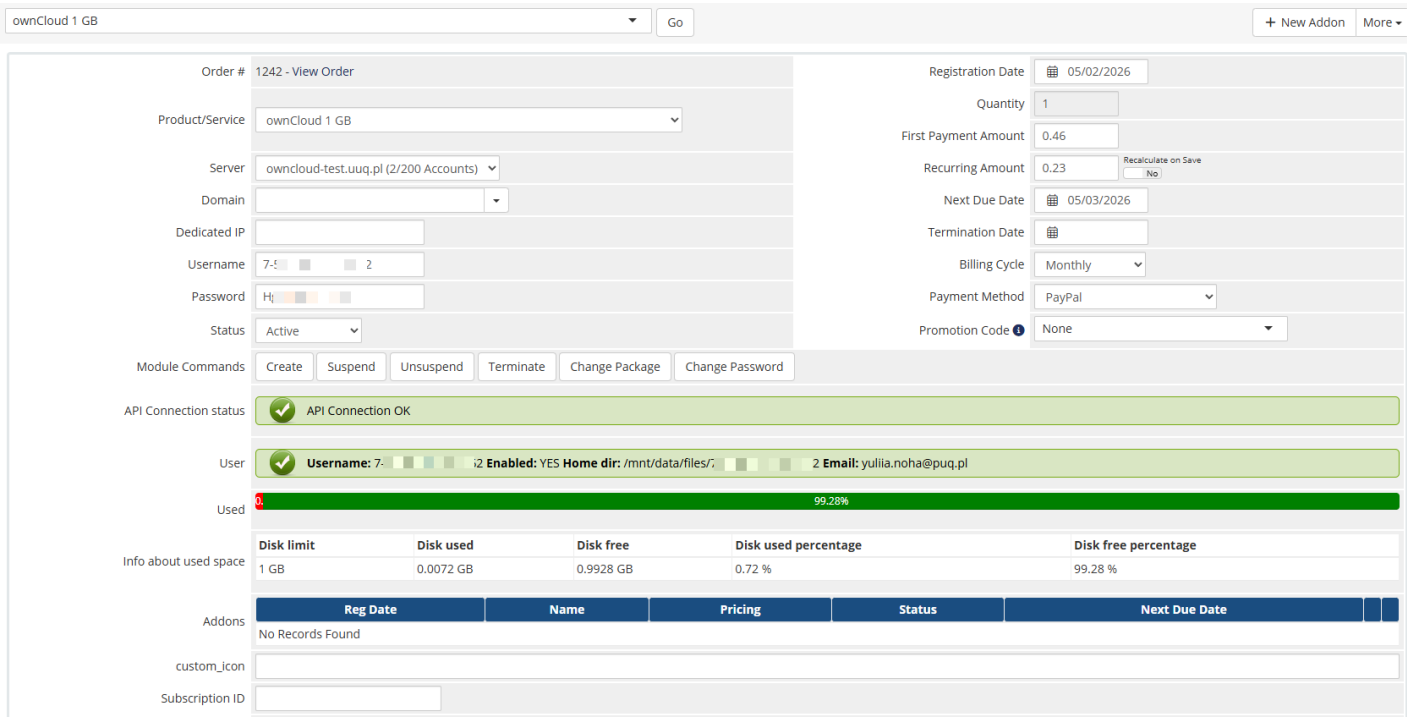
01-description-client-area.png

Client area — Disk statistics



02-description-disk-stats.png

Admin area — Product information



03-description-admin-area.png

Changelog

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v4.1.0 (30-09-2026)

- **Isolated Cron Synchronization & Disk Monitoring.** Scheduled disk statistics and usage calculations are now individually protected for each ownCloud service with dedicated error logging. Temporary server unreachability or API timeouts will never abort the daily WHMCS cron job.
- **Strict PHP 8.2+ Compatibility & Type Hardening.** Fully typed property assignments across usage history and quota limits, preventing unexpected type errors on PHP 8.1, 8.2, and 8.3 environments.
- **Zero-Touch Settings Auto-Migration.** Existing ownCloud products automatically upgrade their configuration options into modern unified settings (`configoption24`) directly in the database without manual updates.
- **Enhanced WHMCS 9 Select2 UX & Hook Resilience.** Sidebar menu hooks and admin alerts are guarded by error boundaries, and dynamic settings injection has been upgraded for seamless compatibility with Select2 in WHMCS 9.
- **Clean Module Logging.** Excluded repetitive local database license verification checks (`License_Verification (db)`) from the WHMCS Module Log, logging exclusively online verification transactions to keep diagnostic logs clean.

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v4.0.0 (02-09-2026)

- Full compatibility with WHMCS 8.x and WHMCS 9+
- Universal **ionCube Loader v15** support for seamless encoding compatibility
- Modernized administrative product settings interface with dynamic injection and enhanced stability
- Improved client area responsiveness and user session management
- Performance optimizations and enhanced error recovery during automated provisioning

tasks

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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

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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.

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v2.1 (31-07-2025)

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

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v2.0 (23-09-2024)

- Module coded with ionCube v15
- Supported PHP versions: 7.4, 8.1, 8.2
- Compatible with WHMCS 8.11.0+

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v1.3.1 (13-08-2024)

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

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v1.3 (06-06-2024)

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

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v1.2 (21-12-2023)

- Support for ownCloud 10.13.3
- Server URL display with non-standard ports
- Password visibility toggle options

---

v1.1 (09-10-2023)

- Critical bug fix for incorrect client data
- Group deletion issue resolved during package changes
- Support for ownCloud 10.13.1.3
- 25 language translations added

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v1.0 (04-03-2023)

- First release

Installation and Configuration Guide

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

WHMCS Installation and Update

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System requirements

Requirement	Minimum
WHMCS	8.x+, 9.x+
PHP	7.4, 8.1, 8.2, 8.3, 8.4
ownCloud	10.x+
ionCube Loader	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 Module:** https://puqcloud.com/whmcs-module-owncloud.php
- **Documentation:** https://doc.puq.info/books/owncloud-whmcs-module
- **All Versions / Download:** https://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-

ownCloud/

- **Support:** https://puqcloud.com/submitticket.php
- **Community:** https://community.puqcloud.com/
- **Direct download link for the latest version:**

```
wget https://download.puqcloud.com/WHMS/servers/PUQ_WHMS-ownCloud/PUQ_WHMS-ownCloud-latest.zip
```

> All versions can be found at this link:
> https://download.puqcloud.com/WHMS/servers/PUQ_WHMS-ownCloud/
>
> Older module versions for WHMCS 8 are available in the archive directory:
> https://download.puqcloud.com/WHMS/servers/PUQ_WHMS-ownCloud/archive/

After downloading, extract the archive:

```
unzip PUQ_WHMS-ownCloud-latest.zip
```

Installation

Step 1: Upload files

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

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

Once the files are uploaded, proceed to the WHMCS Setup Guide to configure the server and product.

Update

The update procedure is the same as installation — replace the existing files with the new version:

1. Download the latest version as described in the Download section.
2. Unzip the archive.
3. Replace the existing `WHMCS_WEB_DIR/modules/servers/puqownCloud` directory with the new one.
4. Verify the version number in the module interface matches the new release.

Setup guide: WHMCS setup

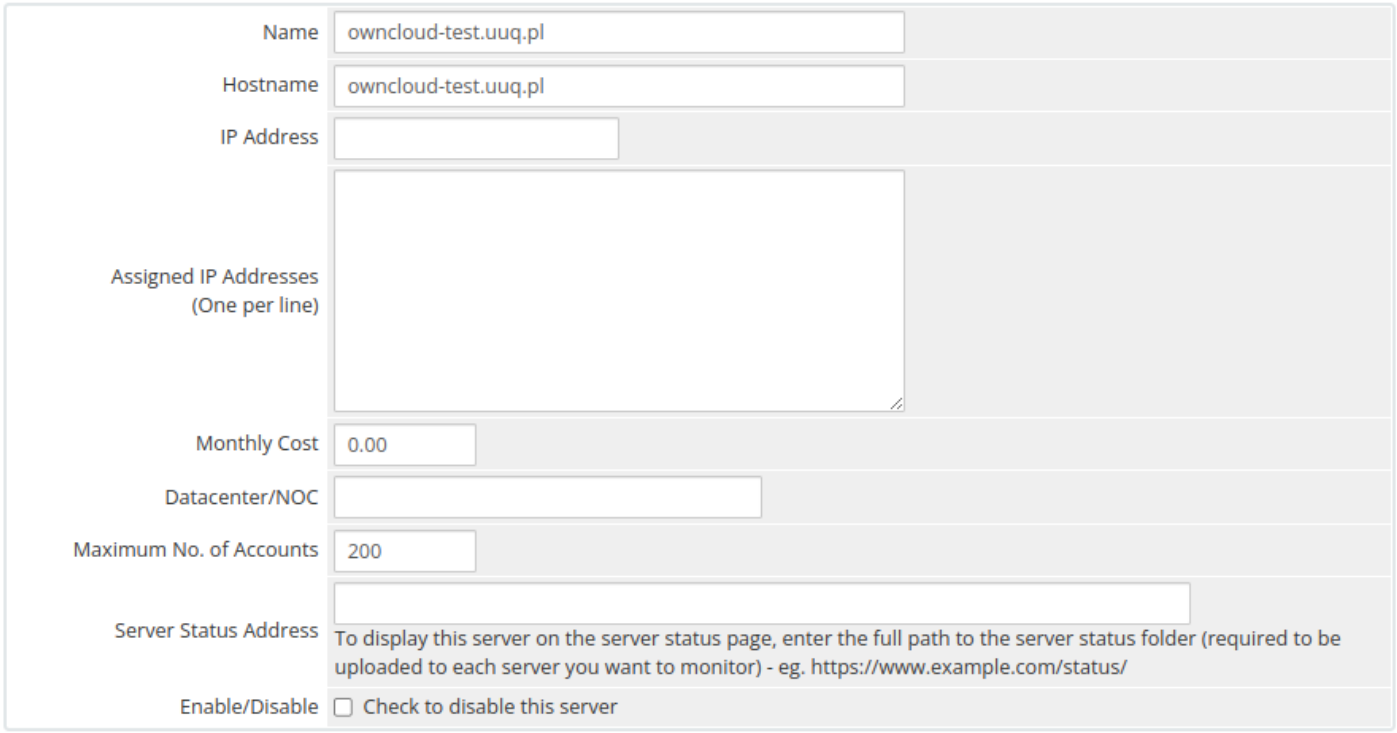
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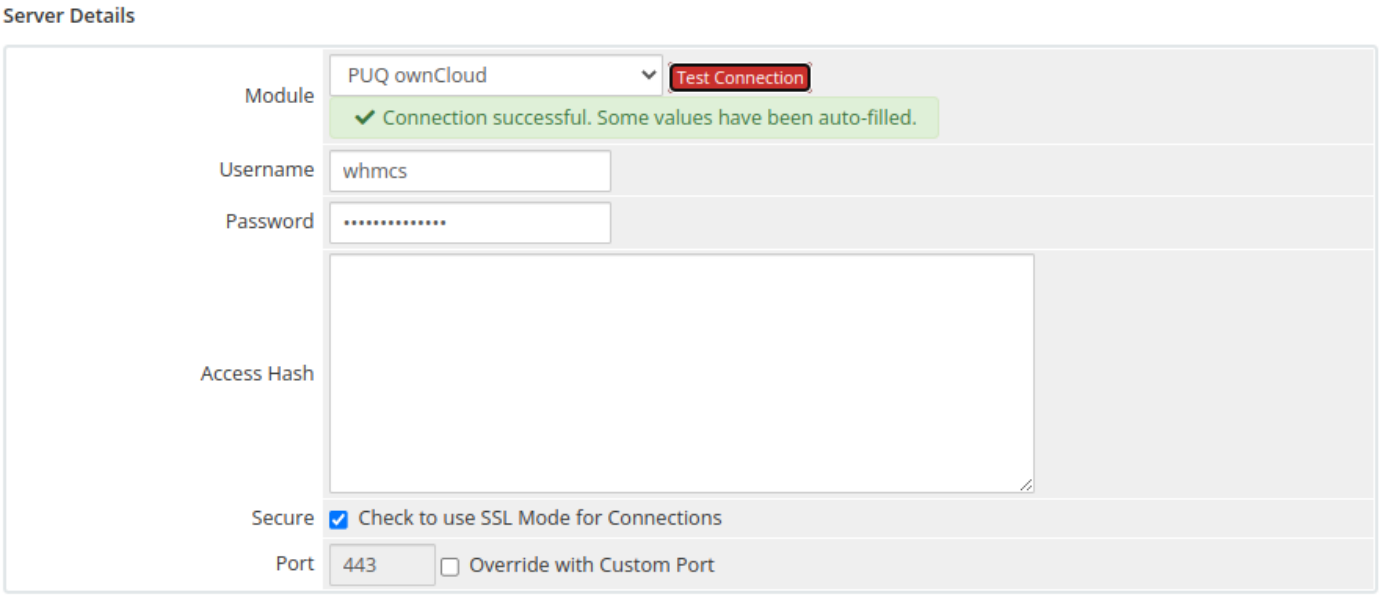
Step 1: Add server in WHMCS

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

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



04-add-server-1.png

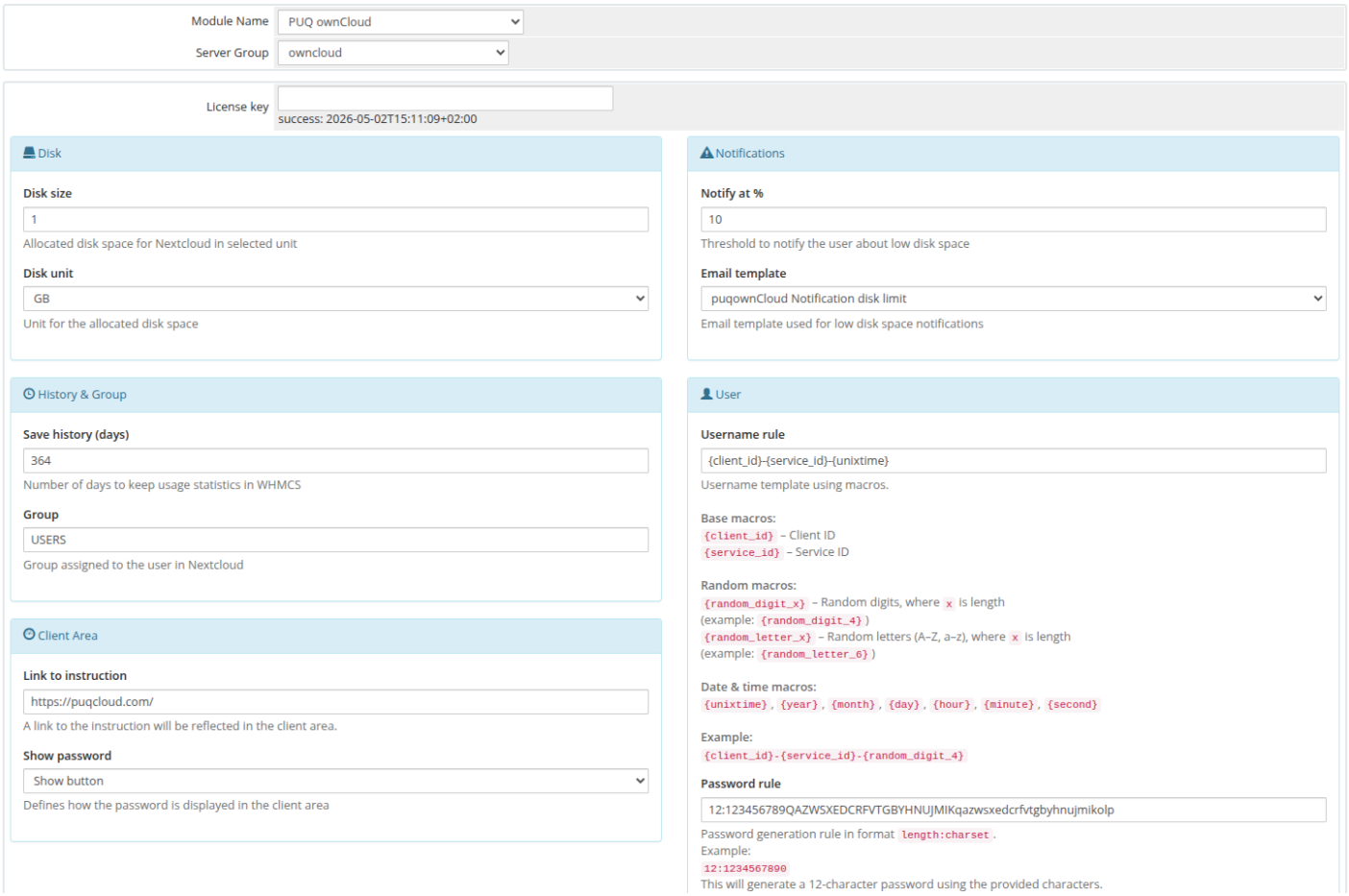


05-add-server-2.png

Step 2: Create product in WHMCS

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

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



06-whmcs-setup.png

Email Template (puqownCloud 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	puqownCloud Notification disk limit

Email subject

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

Email body

```
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}
```

Available template variables

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

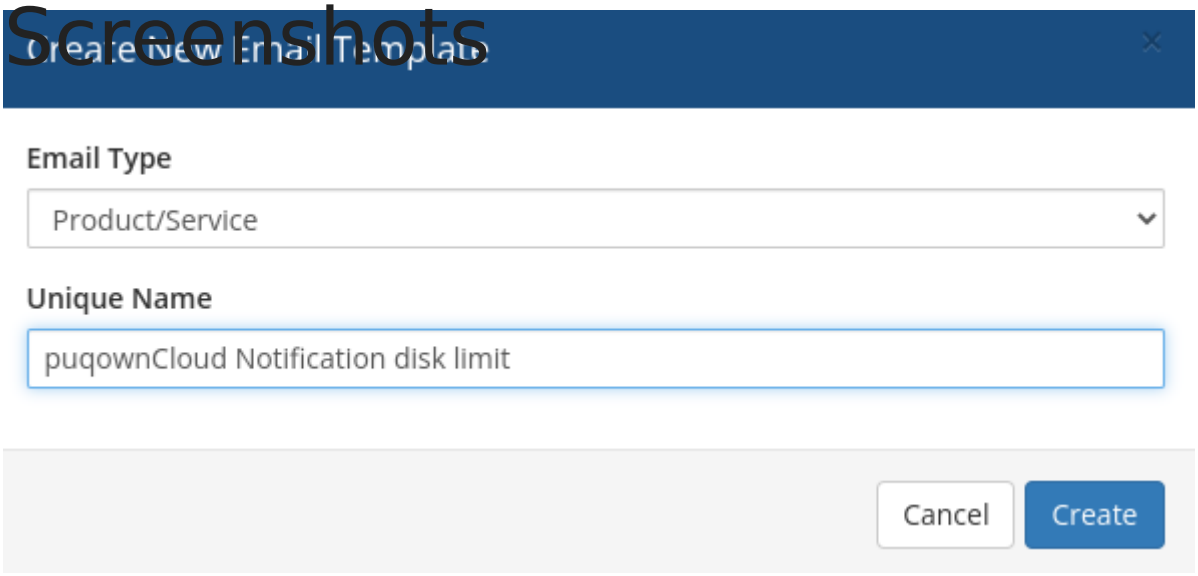
Variable	Description	Example
`{$username}`	ownCloud username	john-42
`{$disk_limit_bytes}`	Total disk quota in bytes	10737418240
`{$unit_coefficient}`	Coefficient for unit conversion	1073741824
`{$unit}`	Disk space unit	GB
`{$disk_used_unit}`	Used disk space in configured unit	8.5
`{$disk_free_unit}`	Free disk space in configured unit	1.5
`{$disk_used_percentage}`	Used space as percentage	85
`{$disk_free_percentage}`	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



07-email-template-1.png

Subject:

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

File Edit View Insert Format Table Help

Paragraph Verdana 11pt

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 (ownCloud server)

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Adding an ownCloud server to WHMCS

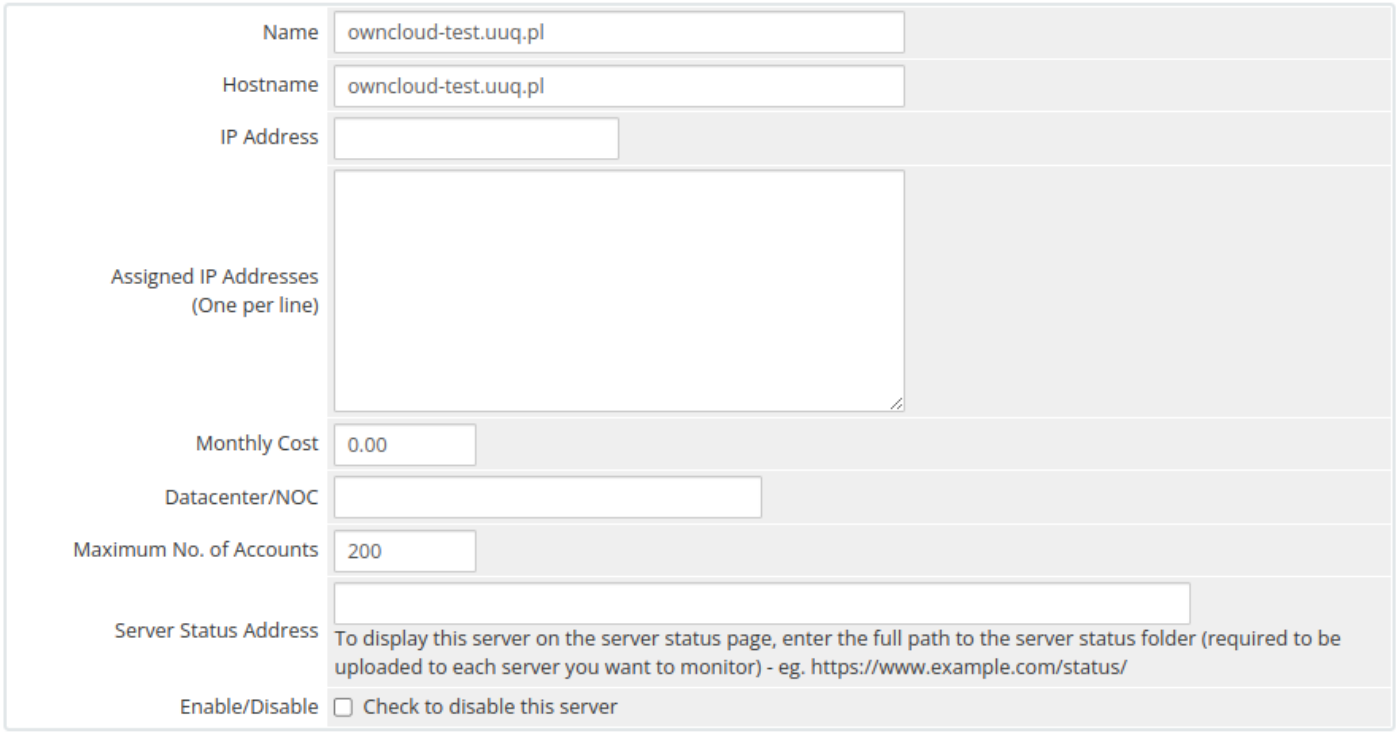
Navigate to **System Settings → Servers → Add New Server**

Step 1: General settings

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

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

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

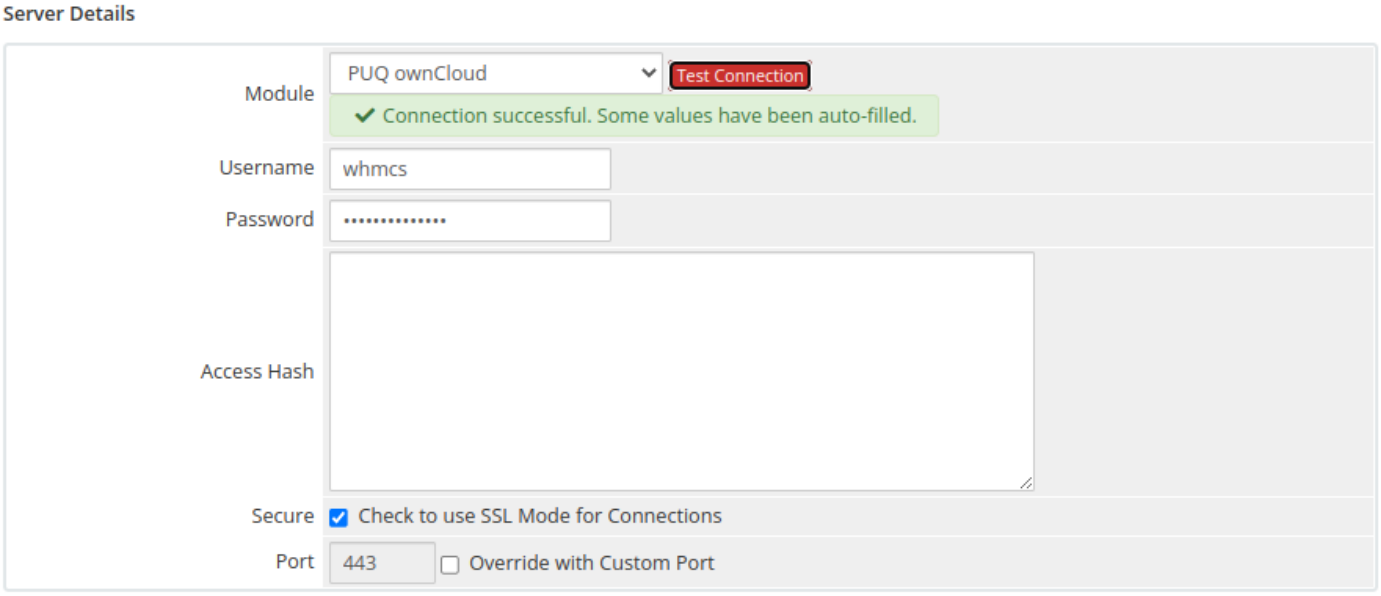


04-add-server-1.png

Step 2: Module settings

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

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



05-add-server-2.png

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

Product Configuration

ownCloud module **WHMCS**

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Add new product to WHMCS

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

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

Configuration parameters

Parameter	Description
License key	A pre-purchased license key for the PUQ ownCloud 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 ownCloud 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	ownCloud 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: `{client_id}-{service_id}`.
Password rule	Password generation rule in `length:charset` format (see below). Default: `12:123456789QAZWSXEDCRFVTGBYHNUJMIKqazwsxedcrfvtgbyhnujmikol`.
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
`{client_id}`	WHMCS client ID	123
`{service_id}`	WHMCS service ID	456
`{unixtime}`	Current Unix timestamp	1707638400
`{year}`	Current year	2026
`{month}`	Current month (01–12)	02
`{day}`	Current day (01–31)	12
`{hour}`	Current hour (00–23)	14
`{minute}`	Current minute (00–59)	30
`{second}`	Current second (00–59)	45
`{random_digit_x}`	x random digits (0–9)	`{random_digit_4}` → 7394
`{random_letter_x}`	x random letters (A–Z, a–z)	`{random_letter_6}` → aBcDeF

Examples:

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

> **Note:** If the generated username already exists on the ownCloud 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:

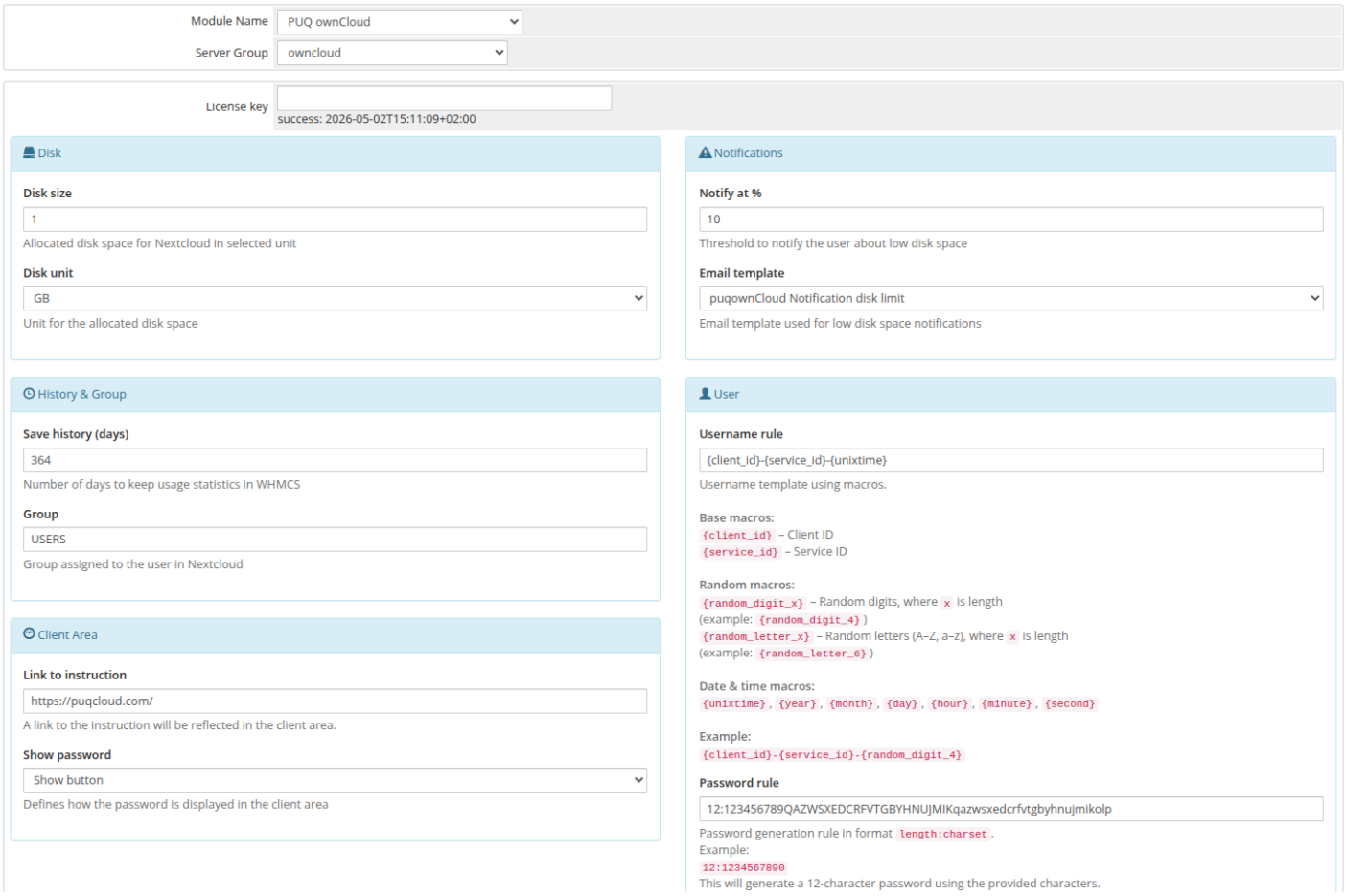
- `12:abcdefghijklmnopqrstuvwxyz0123456789` — 12 lowercase alphanumeric characters
- `16:ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789` — 16 mixed-case alphanumeric
- `20:0123456789` — 20 digits only

> 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



09-product-configuration.png

Client Area

Overview of the client-facing features available in the ownCloud 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 ownCloud server (automatically handles HTTPS/HTTP and non-standard ports)
- **Username** — the ownCloud 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

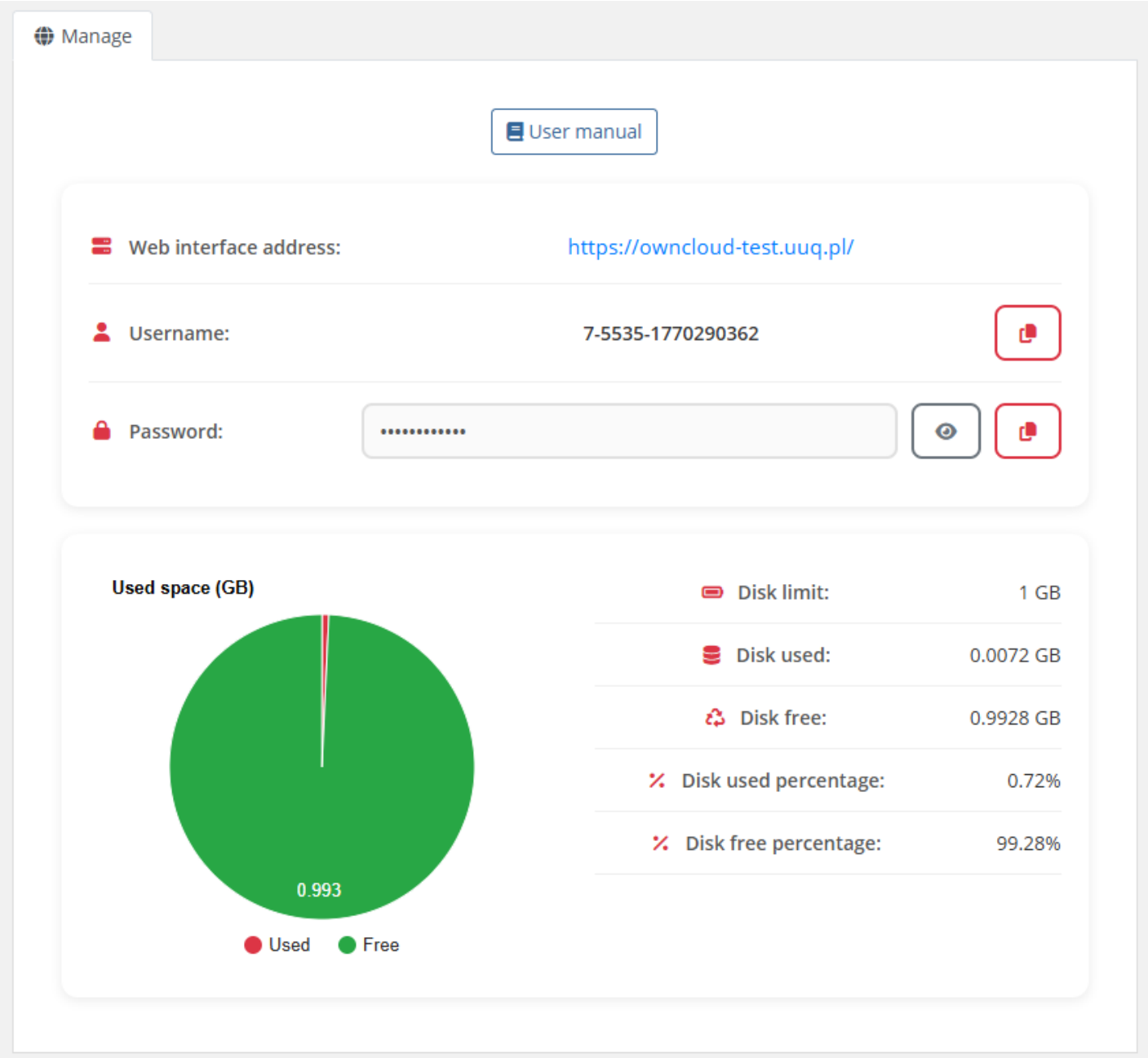
Sidebar navigation

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 ownCloud user cannot be found, an error page is displayed instead.

Screenshot



10-home-screen.png

Client Area

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

Dear ruslan polovyi (TEST sp. z o. o.),

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

Product/Service: **ownCloud 1 G**
Due Date: **-**

Username: **own-1-4856-Cloud**

Disk limit: **1 GB**
Disk used: **0.6661 GB (66.61 %)**
Disk free: **0.3339 GB (33.39 %)**

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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.

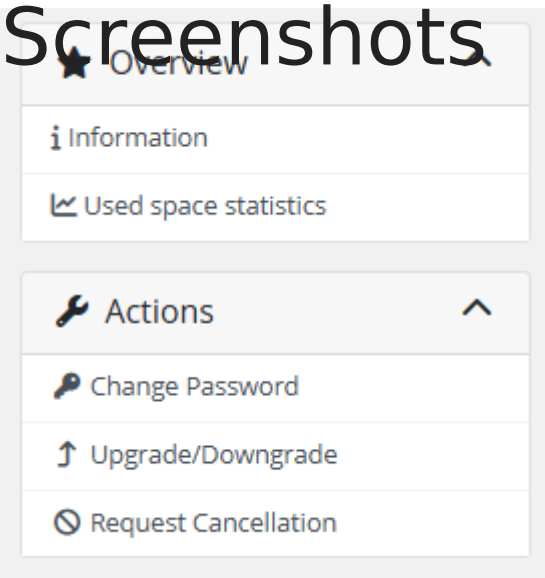
Average per month

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

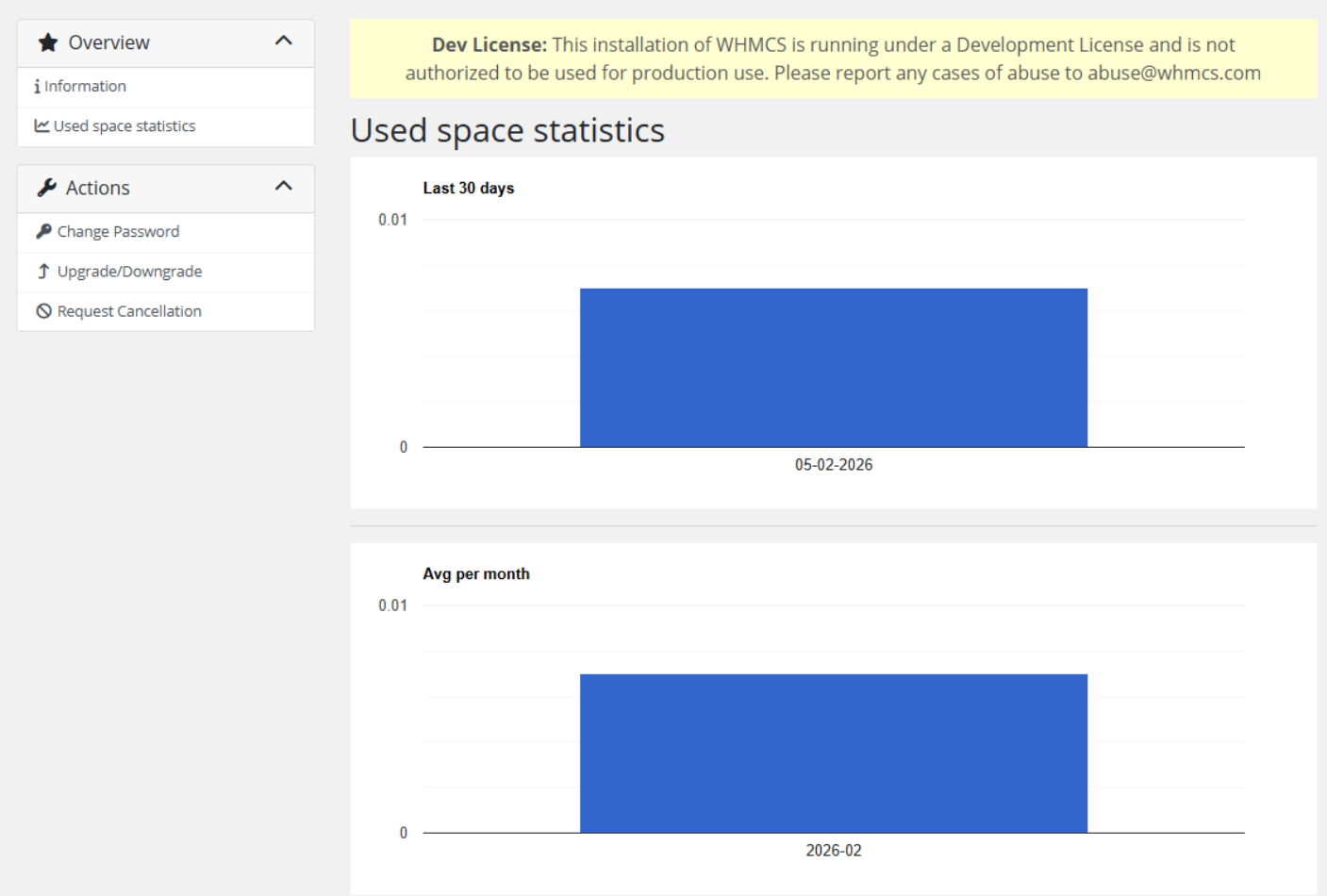
Both charts are powered by Google Charts and automatically resize to fit the browser window. The data is collected by the WHMCS cron job and stored in the database for the number of days configured in the product settings ("Save history" parameter).

> **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 ownCloud 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 ownCloud server, confirming that the API credentials are working correctly.

User information

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

Field	Description
Email	The email address associated with the ownCloud account

Disk usage

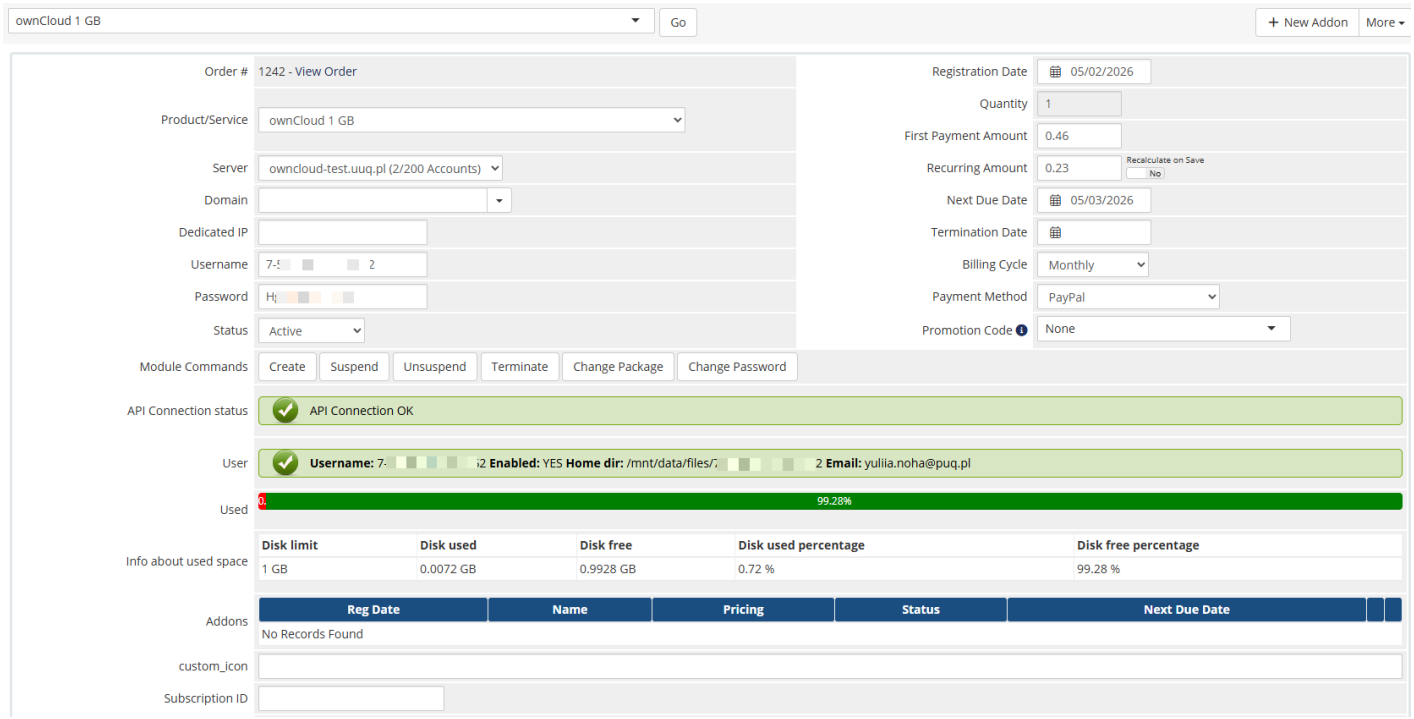
- **Visual progress bar** — a colored bar showing the proportion of used vs. free disk space
- **Detailed table** with:
  - Disk limit (total allocated quota)
  - Disk used (current usage)
  - Disk free (remaining space)
  - Disk used percentage
  - Disk free percentage

Available management actions

The standard WHMCS module command buttons are available:

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

Screenshot



14-product-information.png