

# Synology WHMCS module

The module gives the company the ability to offer user accounts on Synology devices. Users can have multiple accounts. Accounts may differ with parameters defined in groups. The module requires an existing, fully deployed Synology machine with properly configured groups and other options (more information later in the manual)

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# Description

## Synology module **WHMCS**

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The module gives the company the ability to offer user accounts on Synology devices. Users can have multiple accounts. Accounts may differ with parameters defined in groups.

The module requires an existing, fully deployed Synology machine with properly configured groups and other options (more information later in the manual).

The module does not support the installation or configuration of DSM on Synology machines in any way.

### Functions:

- Auto create and deploy account on Synology
- The module uses only the API to manage the accounts
- Module supports multilingualism
- The module shows the current and history of data usage by the user
- The module notifies the user about exceeding the data limit
- Link to instructions for setting up the service in the client area.

### Available options in the admin panel:

- Create users
- Suspend users
- Unsuspend users
- Terminate users
- Change users password
- Change Package
- API connection status
- Disk status

### Available options in the client panel:

- Change user password

- Change Package
  - Disk status
  - Using disk space statistics
- 

WHMCS minimal version: 8 +  
Synology DMS v6+/ DSM 7.1.1 -

★ Overview ^

Information

Used space statistics

⚙ Actions ^

Change Password

Request Cancellation

**Dev License:** This installation of WHMCS is running under a Development License and is not authorized to be used for production use. Please report any cases of abuse to abuse@whmcs.com



Synology 1 GB  
Synology

ACTIVE

Request Cancellation

Registration Date

Friday, July 22nd, 2022

Recurring Amount

11.00\$

Billing Cycle

Monthly

Next Due Date

Wednesday, March 22nd, 2023

Payment Method

Bank Transfer

Manage

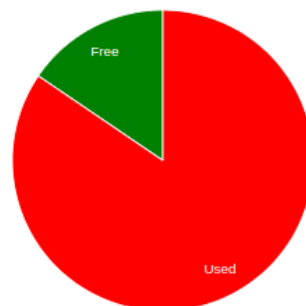
User manual

Web interface address  
<https://home.uuq.pl/>

Username: syno-1-4731-logy

Password: h:=-%-OC\_7Q6

Used space (GB)



Disk limit:	1 GB
Disk used:	0.845 GB
Disk free:	0.155 GB
Disk used percentage:	84.5 %
Disk free percentage:	15.5 %

★ Overview

Information

Used space statistics

Actions

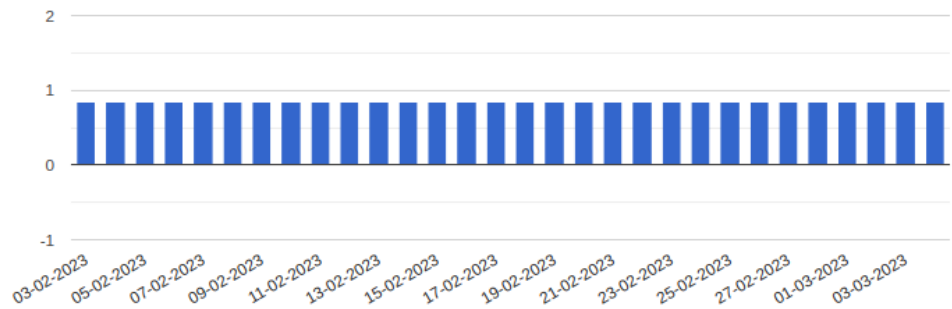
Change Password

Request Cancellation

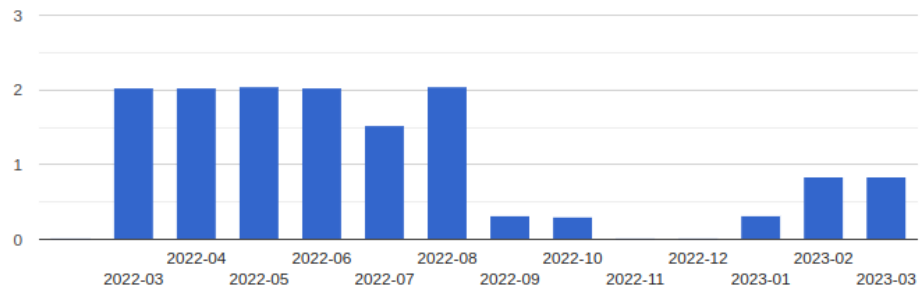
**Dev License:** This installation of WHMCS is running under a Development License and is not authorized to be used for production use. Please report any cases of abuse to abuse@whmcs.com

## Used space statistics

Last 30 days



Avg per month



Summary Profile Users Contacts Products/Services Domains Billable Items Invoices Quotes Transactions Tickets Emails Notes (0) Log

Synology 1 GB Go

+ New Addon More -

Order # 118 - View Order

Product/Service Synology 1 GB

Server home.uuq.pl (1/200 Accounts)

Domain

Dedicated IP

Username syno-1-4731-logy

Password h:-4%-OC\_7Q6

Status Active

Module Commands Create Suspend Unsuspend Terminate Change Package Change Password

API Connection status API Connection OK

User Username: syno-1-4731-logy Expired: normal Member of: ["1GB","users"] Email: ruslan.polovyi@puq.pl

Used 84.5% 15.5%

Info about used space	Disk limit	Disk used	Disk free	Disk used percentage	Disk free percentage
	1 GB	0.845 GB	0.155 GB	84.5 %	15.5 %

Registration Date 22/07/2022

Quantity 1

First Payment Amount 11.00

Recurring Amount 11.00 Recalculate on Save No

Next Due Date 22/03/2023

Termination Date

Billing Cycle Monthly

Payment Method Bank Transfer

Promotion Code None

# Changelog

## Synology module **WHMCS**

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### v1.2.1 Released 02-04-2023

1. Adaptation for Synology DSM 7.1.1
- 

### v1.2 Released 05-03-2023

1. Support for PHP 8.1 and PHP 7.4
  2. Support for Synology DSM 6.x and Synology DSM 7.x
  3. Changes made to templates, add icons
  4. API timeout set 30
- 

### v1.1 Released 23-01-2023

1. Support WHMCS V8.6
  2. Support IonCube PHP Loader v12
  3. Support for PHP 8.1
  4. Changes made to templates
  5. In the service settings, the choice of email template was changed to a drop-down menu.
  6. Added translations: German, Ukrainian
- 

### v1.0 Released 01-08-2022

First version

# Installation and configuration guide

# WHMCS

## setup(install/update)

### Synology module **WHMCS**

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

#### 1. Download the latest version of the module.

PHP 8.1

```
wget http://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Synology/PUQ_WHMCS-Synology-latest.zip
```

PHP 7.4

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

All versions are available via link:

[http://download.puqcloud.com/WHMCS/servers/PUQ\\_WHMCS-Synology/](http://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Synology/)

#### 2. Unzip the archive with the module.

```
unzip PUQ_WHMCS-Synology-latest.zip
```



3. Copy and Replace "puqSynology" to  
"WHMCS\_WEB\_DIR/modules/servers/"

# Synology part setup guide

## Synology module **WHMCS**

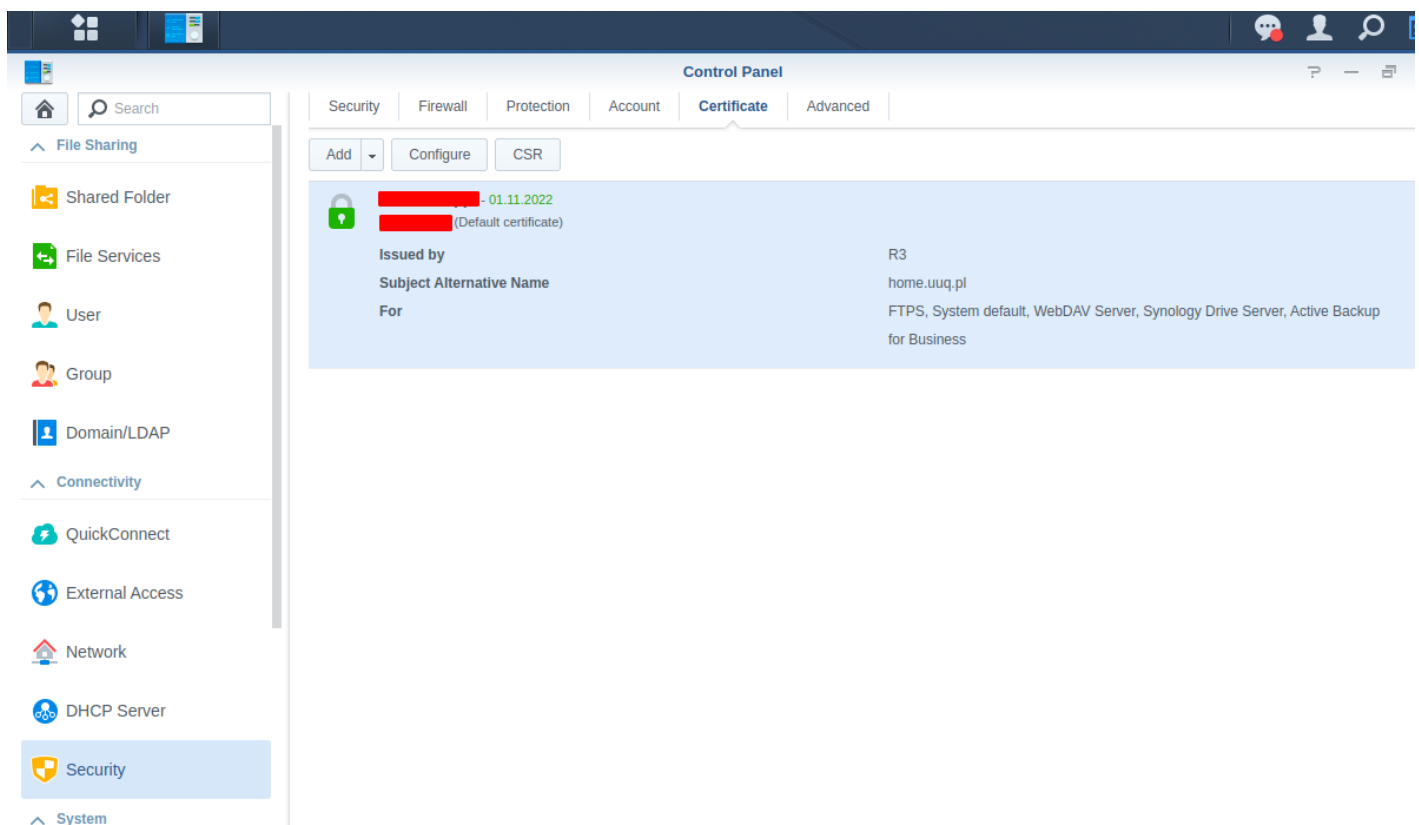
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Here are the initial steps of configuring Synology devices to prepare them for use with the WHMCS module.

At the beginning, you should prepare the appropriate domain with the correct DNS entries so that you can generate a correct SSL certificate for Your Synology NAS server.

### 1. Generate an SSL certificate for your domain.

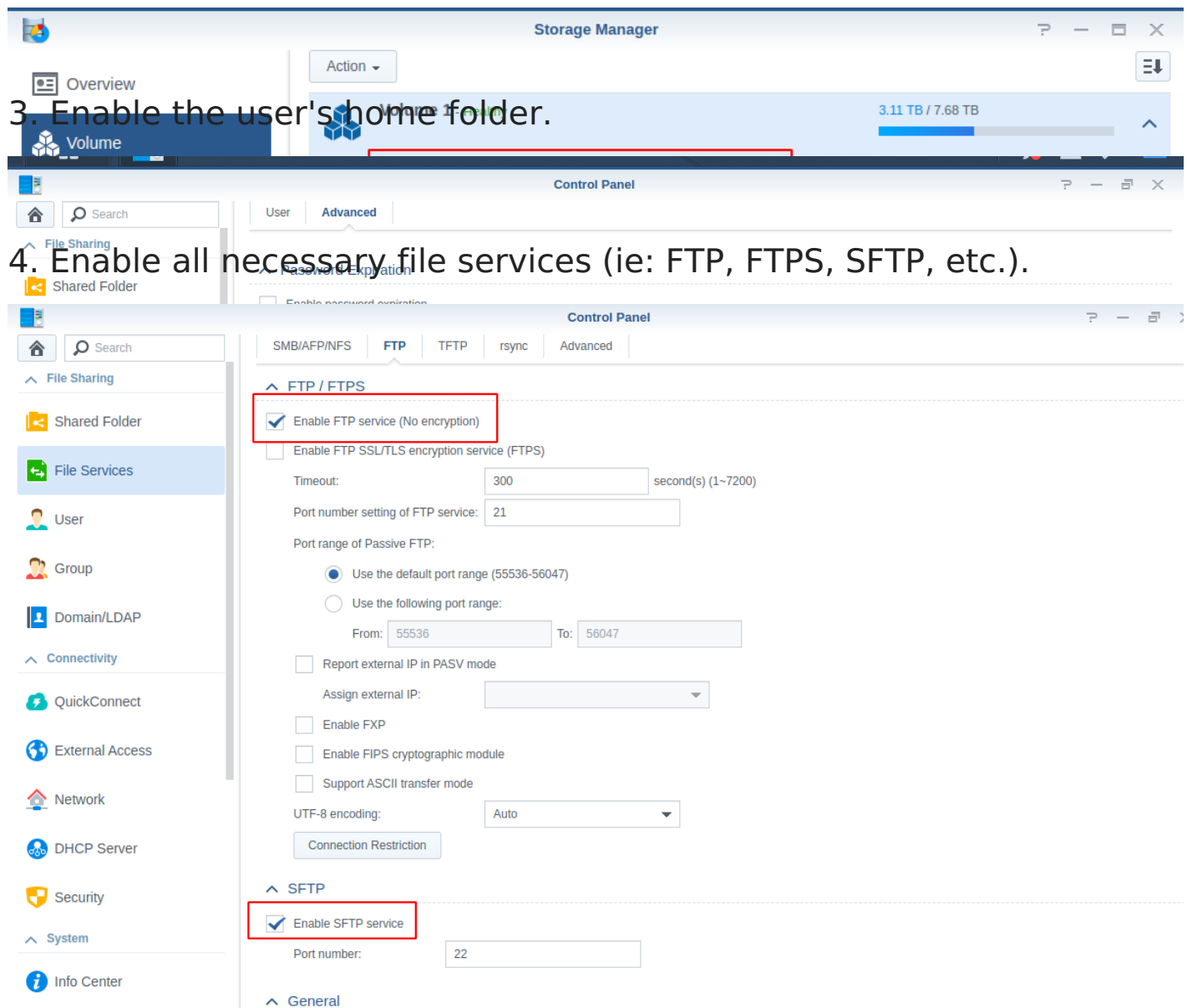
Connect the certificate for all services that will be used in the server.(FTPS, System, Synology Drive, etc...)



2. Make sure the partition is formatted in BTRFS

3. Enable the user's home folder.

4. Enable all necessary file services (ie: FTP, FTPS, SFTP, etc.).



5. Create user groups with the necessary quotas and permissions.

Control Panel

Home

Search

File Sharing

Shared Folder

File Services

User

Group

Domain/LDAP

Connectivity

QuickConnect

External Access

Network

DHCP Server

Security

CreateEditDeleteEdit Members

Name

Description

10G

administratorsSystem default admin group

httpSystem default group for Web services

usersSystem default group

10G

Group InformationPermissionsQuotaApplicationsSpeed Limit

Volume/Shared fol...DescriptionQuotaUnitEnable quota

Volume 1-

ActiveBacku...-0GB

homesuser home10GB

musicSystem default sh...0GB

NetBackupSystem default sh...0GB

video-0GB

webSystem default sh...0GB

OK

Cancel

Control Panel

Search

File Sharing

Shared Folder

File Services

User

Group

Domain/LDAP

Connectivity

QuickConnect

External Access

Network

DHCP Server

Security

System

Info Center

Theme

10G

Group Information

Permissions

Quota

Applications

Speed Limit

Name	<div><input type="checkbox"/> Allow</div>	<div><input type="checkbox"/> Deny</div>	By IP
Active Backup for Busin...	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Active Backup for Busin...	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Audio Station	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Active Backup for Busin...	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cloud Sync	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DSM	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Download Station	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
File Station	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FTP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Moments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Note Station	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Synology Drive	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Synology Contacts	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Synology Calendar	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Universal Search	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Video Station	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WebDAV Server	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
rsync (Shared Folder S...	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

OK

Cancel

# WHMCS part setup guide

## Synology module **WHMCS**

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### 1. Download the latest version of the module.

PHP 8.1

```
wget http://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Synology/PUQ_WHMCS-Synology-latest.zip
```

PHP 7.4

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

All versions are available via link:

[http://download.puqcloud.com/WHMCS/servers/PUQ\\_WHMCS-Synology/](http://download.puqcloud.com/WHMCS/servers/PUQ_WHMCS-Synology/)

### 2. Unzip the archive with the module.

```
unzip PUQ_WHMCS-Synology-latest.zip
```

### 3. Copy "puqSynology" to "WHMCS\_WEB\_DIR/modules/servers/"

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

System Settings->Servers->Add New Server

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

## Servers

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

## Edit Server

**WARNING: ACCESS HASH** field Used to store the access key to the server and is updated automatically.

Module

✓ Connection successful. Some values have been auto-filled.

## 5. Create a new Products/Services

Username

ruslan

## Add new product to WHMCS

Password

.....

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

In the **Module settings** section, select the "**PUQ Synology**" module

Access Hash

Edit Product

- **License key:** A pre-purchased license key for the "**PUQ Synology**" module. For the module to work correctly, the key must be active

- **Unit:** Packet disk space units

- **Disk space size:** Disk size in this product

- **Notification disk limit email template:** Email template that will be sent when the disk quota is exceeded in %

- **Notification, used disk space X %:** Sets a percentage parameter, after exceeding this parameter a notification will be sent to the user

- **Username prefix/Username suffix:** Necessary in order to generate a username for the service, in the format: **prefix<client\_id>-<service\_id>suffix**

- **Group:** The group that will be assigned to the user on the server side of the **Synology NAS**

- **Save usage history (days):** The number of days it takes to save user disk usage statistics

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

Details Pricing Module Settings Custom Fields Configurable Options Upgrades Free Domain Other Links

Module Name PUQ Synology Server Group None

Unit GigaByte Unit of measure in the product (technical information)

Disk space size 10 In unit (technical information)

Notification disk limit email template puqSynology Notification disk limit

Notification, used disk space X % 90

Username prefix syno- Will be attached to the beginning of username. Only small letters, numbers and underscores

Group 10G A group on Synology that will be user-specific. In it we configure all limits and accesses

Save usage history (days) 364 0 - all history

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

# Email Template

## (puqSynology Notification disk limit)

Synology module **WHMCS**

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Create an email template for customer notifications.

System Settings->Email Templates->Create New Email Template

- **Email Type:** Product/service
- **Unique Name:** puqSynology Notification disk limit

Subject

Create New Email Template

Disk space usage {\$disk\_used\_percentage} % - {\$username}

Email type

Body:Product/Service

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}

Subject:

Disk space usage {\$disk\_used\_percentage} % - {\$username}

-----

# Add server (Synology NAS)

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Add a new server to the system WHMCS.

System Settings->Servers->Add New Server

- Enter the correct **Name** and **Hostname**
- In the **Server Details** section, select the "**PUQ Synology**" module and enter the correct **username** and **password** for the **Synology NAS web interface**.
- To check, click the "**Test connection**" button

WARNING: **ACCESS HASH** field Used to store the access key to the server and is updated automatically.

Module	✓ Connection successful. Some values have been auto-filled.	
Username	ruslan	

# Product Configuration

## Synology module WHMCS

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### Add new product to WHMCS

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

In the **Module settings** section, select the **"PUQ Synology"** module

Edit Product

DetailsPricingModule SettingsCustom FieldsConfigurable OptionsUpgradesFree DomainOtherLinks

Module NamePUQ SynologyServer GroupNone

UnitGigaByteUnit of measure in the product (technical information)

Notification disk limit email template

Username prefixsyno-Will be attached to the beginning of username.

Group10GA group on Synology that will be user-specific. In it we configure all limits and access.

Save usage history (days)364All history

- License key:** A pre-purchased license key for the **"PUQ Synology"** module. For the module to work correctly, the key must be active
- Unit:** Packet disk space units
- Disk space size:** Disk size in this product
- Notification disk limit email template:** Email template that will be sent when the disk quota is exceeded in %
- Notification, used disk space X %:** Sets a percentage parameter, after exceeding this parameter a notification will be sent to the user
- Username prefix/Username suffix:** Necessary in order to generate a username for the service, in the format: **prefix<client\_id>--<service\_id>suffix**
- Group:** The group that will be assigned to the user on the server side of the **Synology NAS**
- Save usage history (days):** The number of days it takes to save user disk usage statistics
- Link to instruction:** Link to the instruction, if filled out, it will be reflected in the client area

# Client Area

# Home screen

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

- Link to the user manual (*which was defined by the administrator when setting up the service.*).
- Synology server adress
- Authorization data
- Usage statistics graph
- Table with data on the use of the service



User manual



Web interface address

<https://home.uuq.pl/>



Username:

syno-1-4731-logy



Password:

[REDACTED]

Used space (GB)



Disk limit:

1 GB



Disk used:

0 GB



Disk free:

1 GB



Disk used percentage:

0 %



Disk free percentage:

100 %

# Email notification

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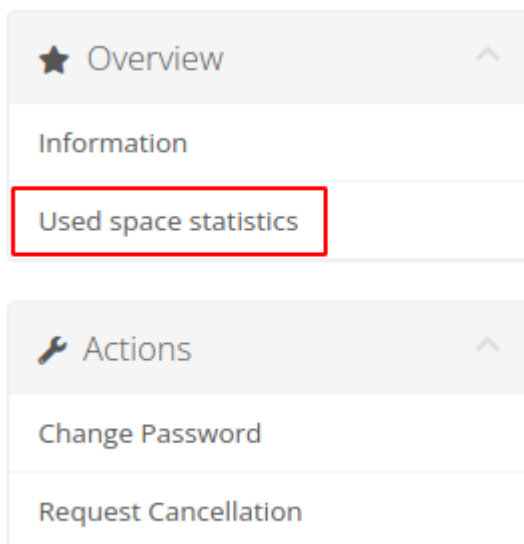
**Below you can see an example of an email notification regarding data limit**

# Disk statistics

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Client can check the data usage statistics in the menu item "**Used space statistics**"



## Disk Usage Charts



# Admin Area

Admin Area

# Product Information

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Product Information Screen