Jellyfin WISECP module

This module enables your company to offer public media services to customers through Jellyfin accounts. It facilitates the creation of customer accounts on a pre-configured Jellyfin server, allowing for the sale of various media packages at different prices. The module requires a pre-installed Jellyfin server and uses the Jellyfin API for client account management. It also supports multiple languages. Administrators can suspend, terminate, or unsuspend users, change user passwords, and more, while clients can manage their devices and libraries.

- Description
- Changelog
- Installation and configuration guide
  - Setup (install/update)
  - License Activation
  - Setup guide: Jellyfin setup
  - Add server (Jellyfin server)
  - Service configuration
  - Add new library/item in Jellyfin
  - Getting Access Hash (API key)
- Client Area
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Description

Jellyfin module **WISECP**

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Thanks to the module, the company is able to offer public media services to its customers based on Jellyfin accounts.

The module is used to create customer accounts on the previously prepared Jellyfin server. The module enables You to define multiple public media packages and sell them at different prices. The module creates a customer account according to the selected package. The client can have many independent accounts in the media.

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

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

Requirements:
WISECP: v3.1.5+, php: v8.x, Ioncube: V12+
Jellyfin: v10+

Functions:

- Auto create and deploy client account
- The module uses only the API to manage the accounts
- Module supports multilingualism **(Arabic, Bosnian, Czech, German, Greek, English, Spanish, Persian, French, Hungarian, Indonesian, Italian, Georgian, Latvian, Dutch, Polish, Portuguese, Romanian, Ukrainian)**
- The module shows all user info: enabled user libraries, active devices etc.

- Link to instructions for setting up the service in the client area.

Available options in the admin panel:

- Create users
- Suspend users
- Terminate users
- Unsuspend users
- Change users password
- Change Package
- Drop all devices
- Unblock user
- API connection status
- List of active devices
- List of enabled user libraries

Available options in the client panel:

- List of active devices
- List of enabled user libraries
- Drop all devices
- Unblock user
- Change the Jellyfin user password

Screenshot of the Client area

Jellyfin

Client Area / My Services / Media / Jellyfin

Details | Additional Services | Upgrade | Cancellation Request

Order ID
#193

Renew Now

General Information	Invoice #305
Service Group	Media
Service Name	Jellyfin
Services Status	Active
Payment Period	Monthly
Renewed On	08.07.2024
Next Due Date	08.08.2024
Amount : 11zł	

User manual | Web interface | Drop All Devices | Unblock User

Management Media account

Username: jelly-4-193-fin

Status: Enable

Password: ••••••••

Save

Libraries: Beginner`s Programming Course | Clips | Movies | Playlists

Failed Login Attempt: 1/3

Active Sessions: 0/3

Active Devices

10 Show Record

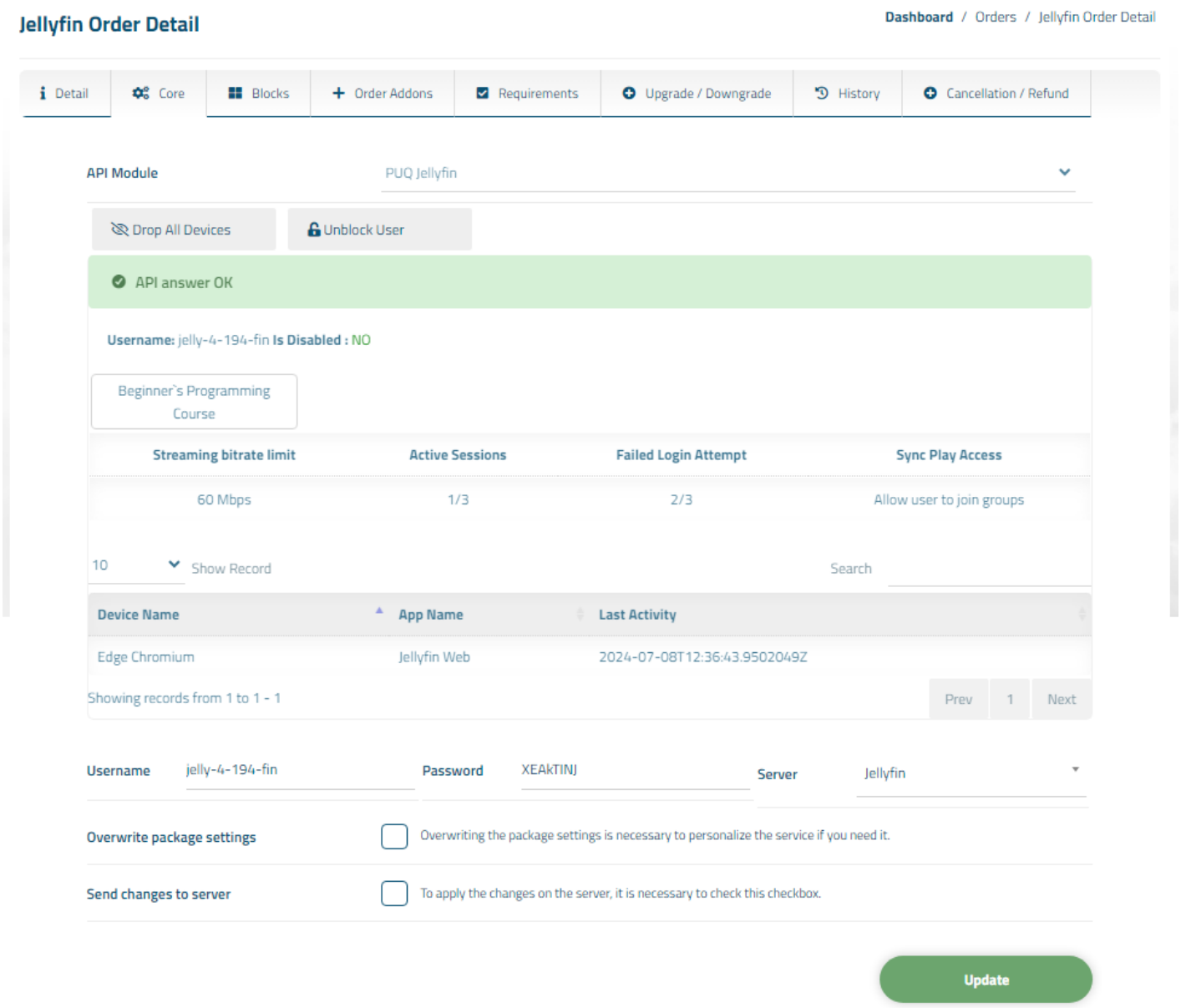
Search

Device Name	App Name	Last Activity
No data available in table		

No Records

Prev Next

Screenshot of the Admin area



Changelog

Jellyfin module **WISECP**

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v1.2 Released 12-07-2024

- Client area more adapted for mobile version
- Buttons for copying login and password have been added to the client area
- Optimized.

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v1.1 Released 15-02-2024

- Introduced a "Show" button for displaying service passwords in the Client Area.
- Fixed a bug with some cases where it was not possible to delete the server
- Fixed a bug with the test connection to the server.
- Improved security

---

v1.0 Released 07-12-2023

First version

Installation and configuration guide

Setup (install/update)

Jellyfin module **WISECP**

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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.

```
wget http://download.puqcloud.com/WISECP/Product/PUQ_WISECP-Jellyfin/PUQ_WISECP-Jellyfin-latest.zip
```

All versions are available: https://download.puqcloud.com/WISECP/Product/PUQ_WISECP-Jellyfin/

2. Unzip the archive with the module.

```
unzip PUQ_WISECP-Jellyfin-latest.zip
```

3. Copy and Replace "puqJellyfin" from "PUQ_WISECP-Jellyfin" to "WISECP_WEB_DIR/coremio/modules/Product/"

License Activation

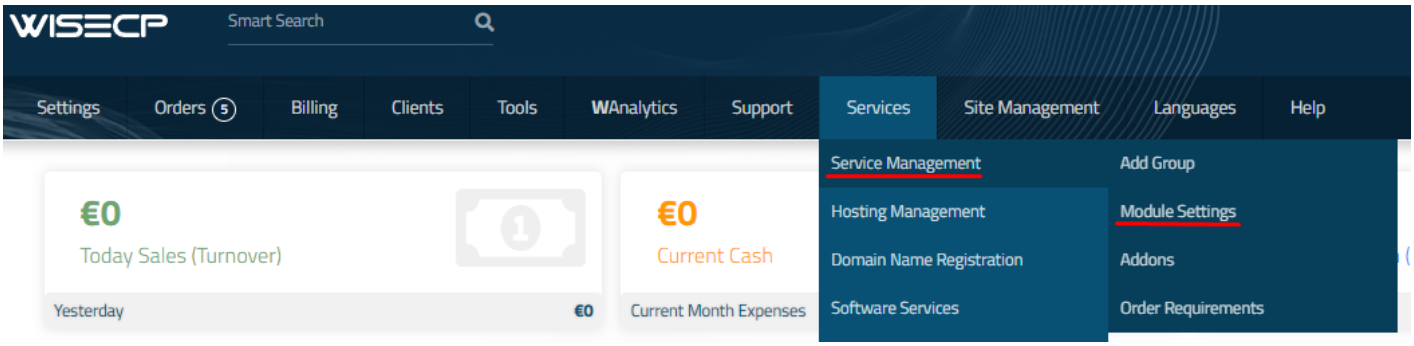
Jellyfin module **WISECP**

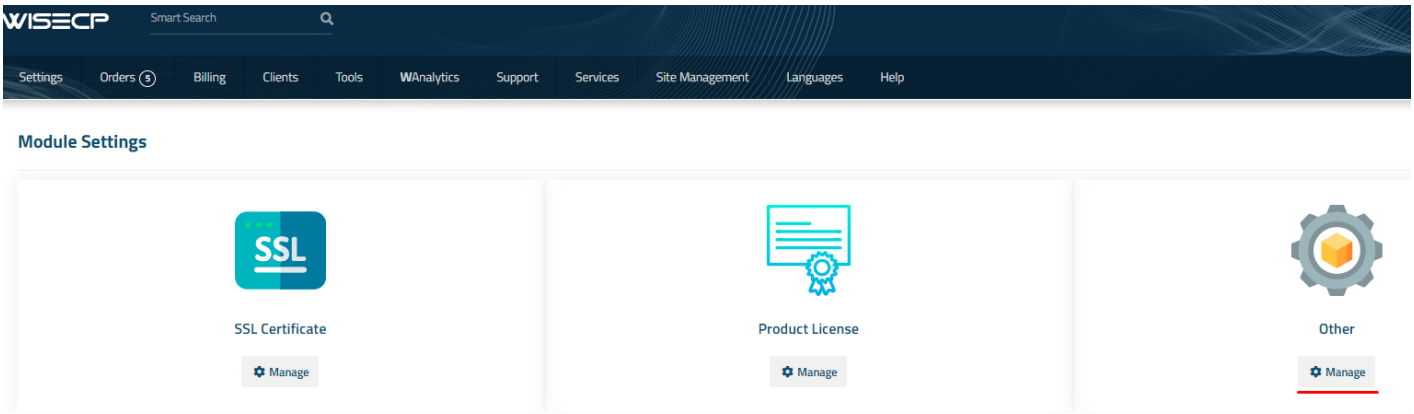
Order now | Download | FAQ

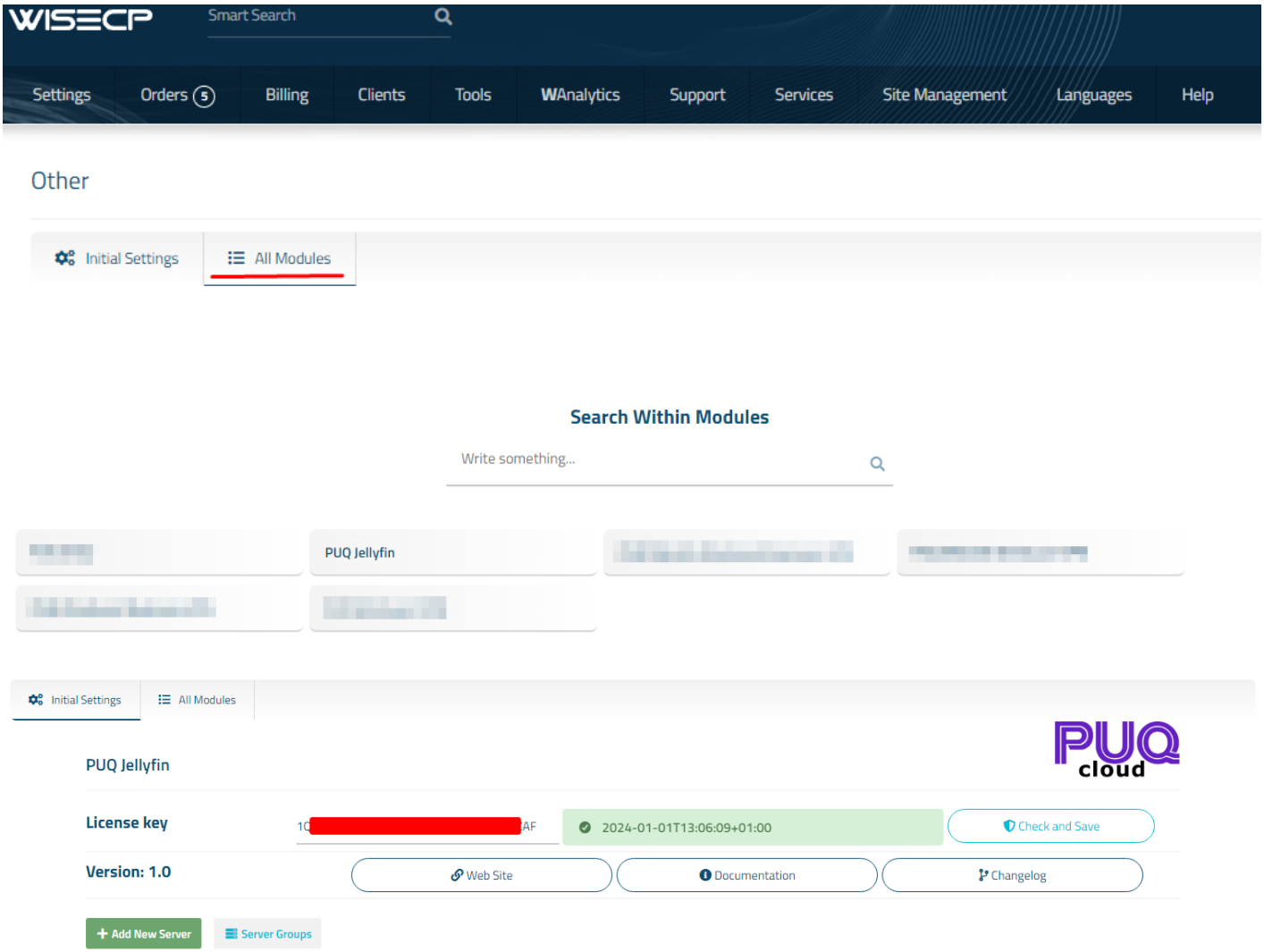
1. Log in to the administrative area of your **WISECP**.

2. Go to module configuration.

```
Services -> Service Management -> Module Settings -> Other -> All Modules -> PUQ Jellyfin
```






WISECP
Smart Search
Settings
Orders 5
Billing
Clients
Tools
WAnalytics
Support
Services
Site Management
Languages
Help
Other
Initial Settings
All Modules
Search Within Modules
Write something...
PUQ Jellyfin
Initial Settings
All Modules
PUQ Jellyfin
PUQ cloud
License key
1C
AF
2024-01-01T13:06:09+01:00
Check and Save
Version: 1.0
Web Site
Documentation
Changelog
Add New Server
Server Groups

Setup guide: Jellyfin setup

Jellyfin module WISECP

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1. Install Jellyfin on your server

To simplify deployment and help automate this for as many users as possible, we provide a BASH script to handle repo installation as well as installing Jellyfin. All you need to do is run this command on your system

```
wget -O- https://repo.jellyfin.org/install-debuntu.sh | sudo bash
```

2. SSL certificate generation:

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

```
sudo certbot --nginx --agree-tos --redirect --hsts --staple-ocsp --email YOUR_EMAIL -d DOMAIN_NAME
```

```
echo "0 0 * * *  root  certbot renew --quiet --no-self-upgrade --post-hook 'systemctl reload nginx'" | sudo tee -a /etc/cron.d/renew_certbot
```

3. Configure nginx from a subdomain

Create a file named jellyfin.conf.

```
cd /etc/nginx/conf.d/
nano jellyfin.conf
```

Then, insert the following text, replacing DOMAIN_NAME with your domain.

```
# Uncomment the commented sections after you have acquired a SSL Certificate
server {
    listen 80;
    listen [::]:80;
    server_name DOMAIN_NAME;

    # Uncomment to redirect HTTP to HTTPS
    return 301 https://$host$request_uri;
}

server {
    listen 443 ssl http2;
    listen [::]:443 ssl http2;
    server_name DOMAIN_NAME;

    ## The default `client_max_body_size` is 1M, this might not be enough for some posters, etc.
    client_max_body_size 20M;

    # use a variable to store the upstream proxy
    # in this example we are using a hostname which is resolved via DNS
    # (if you aren't using DNS remove the resolver line and change the variable to point to an IP address e.g `set $jellyfin 127.0.0.1`)
    set $jellyfin 127.0.0.1;
    resolver 127.0.0.1 valid=30;

    ssl_certificate /etc/letsencrypt/live/DOMAIN_NAME/fullchain.pem;
    ssl_certificate_key /etc/letsencrypt/live/DOMAIN_NAME/privkey.pem;
    include /etc/letsencrypt/options-ssl-nginx.conf;
    ssl_dhparam /etc/letsencrypt/ssl-dhparams.pem;
    add_header Strict-Transport-Security "max-age=31536000" always;
    ssl_trusted_certificate /etc/letsencrypt/live/DOMAIN_NAME/chain.pem;
    ssl_stapling on;
    ssl_stapling_verify on;

    # Security / XSS Mitigation Headers
    # NOTE: X-Frame-Options may cause issues with the webOS app
    add_header X-Frame-Options "SAMEORIGIN";
    add_header X-XSS-Protection "0"; # Do NOT enable. This is obsolete/dangerous
```

```
    add_header X-Content-Type-Options "nosniff";

    # COOP/COEP. Disable if you use external plugins/images/assets
    add_header Cross-Origin-Opener-Policy "same-origin" always;
    add_header Cross-Origin-Embedder-Policy "require-corp" always;
    add_header Cross-Origin-Resource-Policy "same-origin" always;

    # Permissions policy. May cause issues on some clients
    add_header Permissions-Policy "accelerometer=(), ambient-light-sensor=(), battery=(),
bluetooth=(), camera=(), clipboard-read=(), display-capture=(), document-domain=(), encrypted-
media=(), gamepad=(), geolocation=(), gyroscope=(), hid=(), idle-detection=(), interest-
cohort=(), keyboard-map=(), local-fonts=(), magnetometer=(), microphone=(), payment=(),
publickey-credentials-get=(), serial=(), sync-xhr=(), usb=(), xr-spatial-tracking=()" always;

    # Tell browsers to use per-origin process isolation
    add_header Origin-Agent-Cluster "?1" always;



    # Content Security Policy
    # See: https://developer.mozilla.org/en-US/docs/Web/HTTP/CSP
    # Enforces https content and restricts JS/CSS to origin
    # External Javascript (such as cast_sender.js for Chromecast) must be whitelisted.
    # NOTE: The default CSP headers may cause issues with the webOS app
    #add_header Content-Security-Policy "default-src https: data: blob: http://image.tmdb.org;
style-src 'self' 'unsafe-inline'; script-src 'self' 'unsafe-inline' https://www.gstatic.com
https://www.youtube.com blob:; worker-src 'self' blob:; connect-src 'self'; object-src
'none'; frame-ancestors 'self'";

    location = / {
        return 302 http://$host/web/;
        #return 302 https://$host/web/;
    }

    location / {
        # Proxy main Jellyfin traffic
        proxy_pass http://$jellyfin:8096;
        proxy_set_header Host $host;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_set_header X-Forwarded-Proto $scheme;
```

```
    proxy_set_header X-Forwarded-Protocol $scheme;
    proxy_set_header X-Forwarded-Host $http_host;

    # Disable buffering when the nginx proxy gets very resource heavy upon streaming
    proxy_buffering off;
  }

  # location block for /web - This is purely for aesthetics so /web/#/ works instead of having to go to /web/index.html/#/
  location = /web/ {
    # Proxy main Jellyfin traffic
    proxy_pass http://$jellyfin:8096/web/index.html;
    proxy_set_header Host $host;
    proxy_set_header X-Real-IP $remote_addr;
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
    proxy_set_header X-Forwarded-Proto $scheme;
    proxy_set_header X-Forwarded-Protocol $scheme;
    proxy_set_header X-Forwarded-Host $http_host;
  }

  location /socket {
    # Proxy Jellyfin Websockets traffic
    proxy_pass http://$jellyfin:8096;
    proxy_http_version 1.1;
    proxy_set_header Upgrade $http_upgrade;
    proxy_set_header Connection "upgrade";
    proxy_set_header Host $host;
    proxy_set_header X-Real-IP $remote_addr;
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
    proxy_set_header X-Forwarded-Proto $scheme;
    proxy_set_header X-Forwarded-Protocol $scheme;
    proxy_set_header X-Forwarded-Host $http_host;
  }
}
```

Restarting nginx

```
sudo service nginx restart
```

Add server (Jellyfin server)

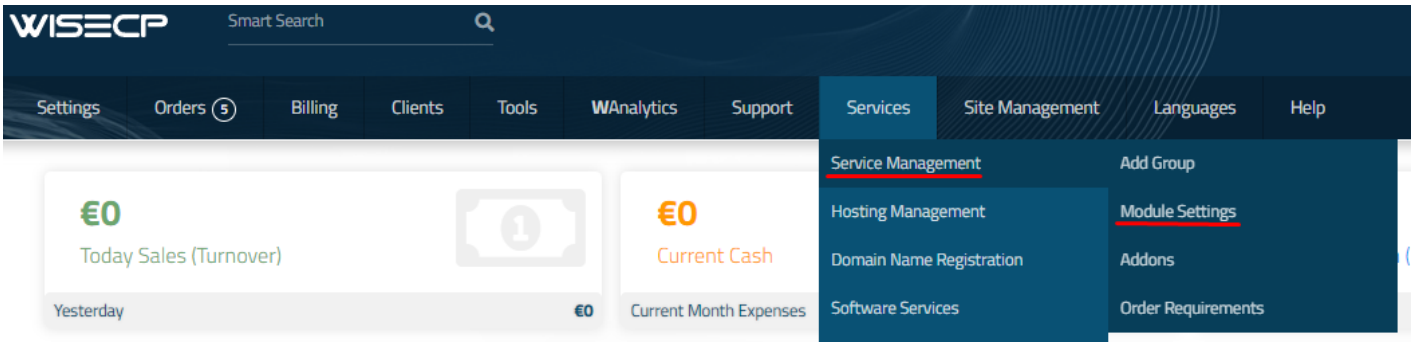
Jellyfin module WISECP

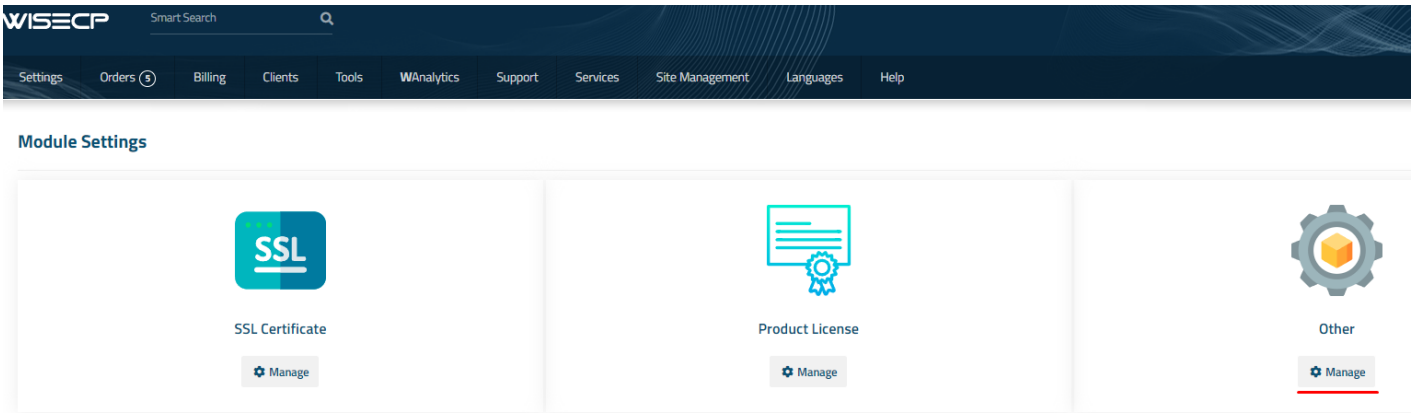
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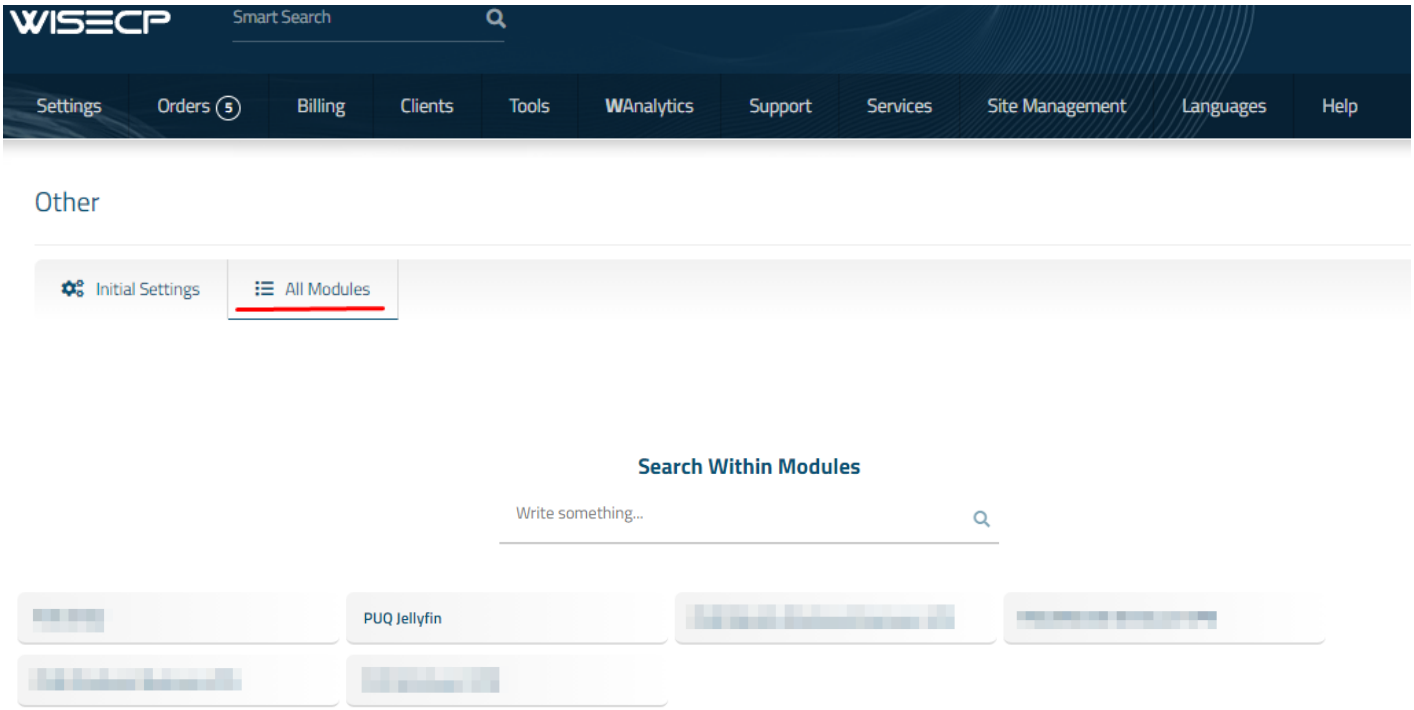
1. Log in to the administrative area of your **WISECP**.

2. Go to module configuration.

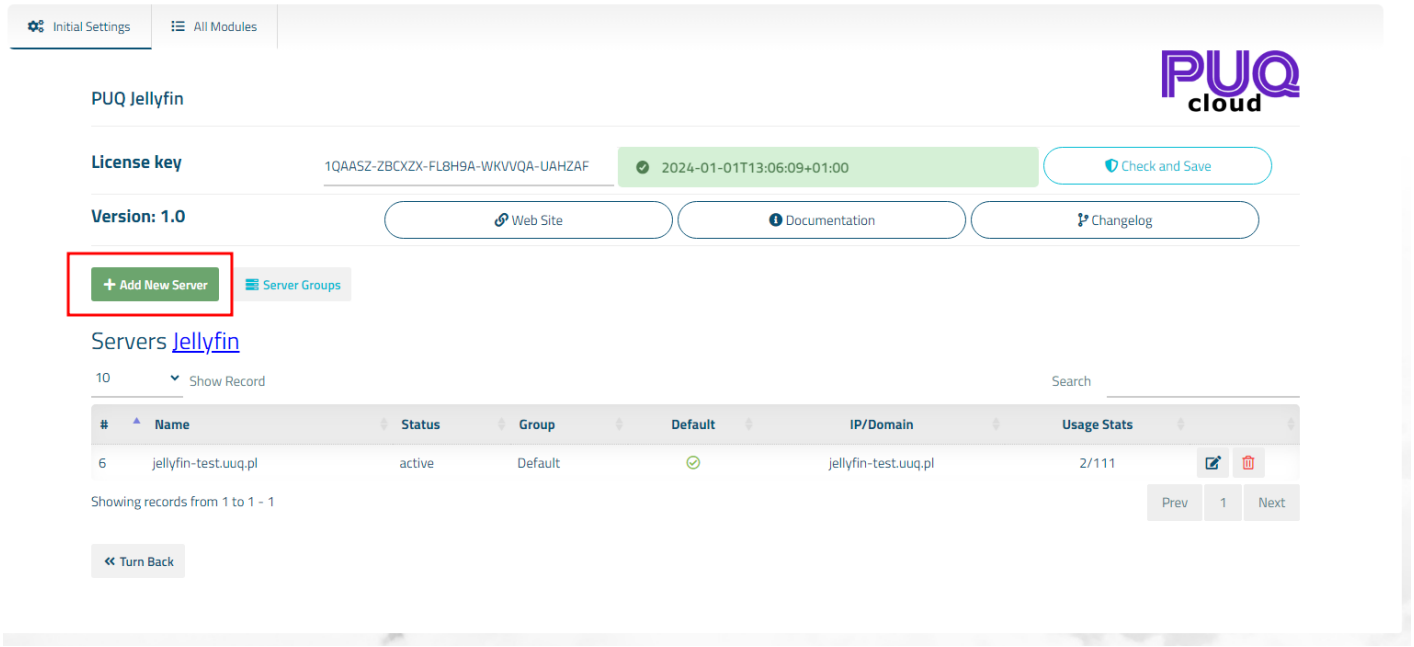
```
Services -> Service Management -> Module Settings -> Other -> All Modules -> PUQ Jellyfin
```







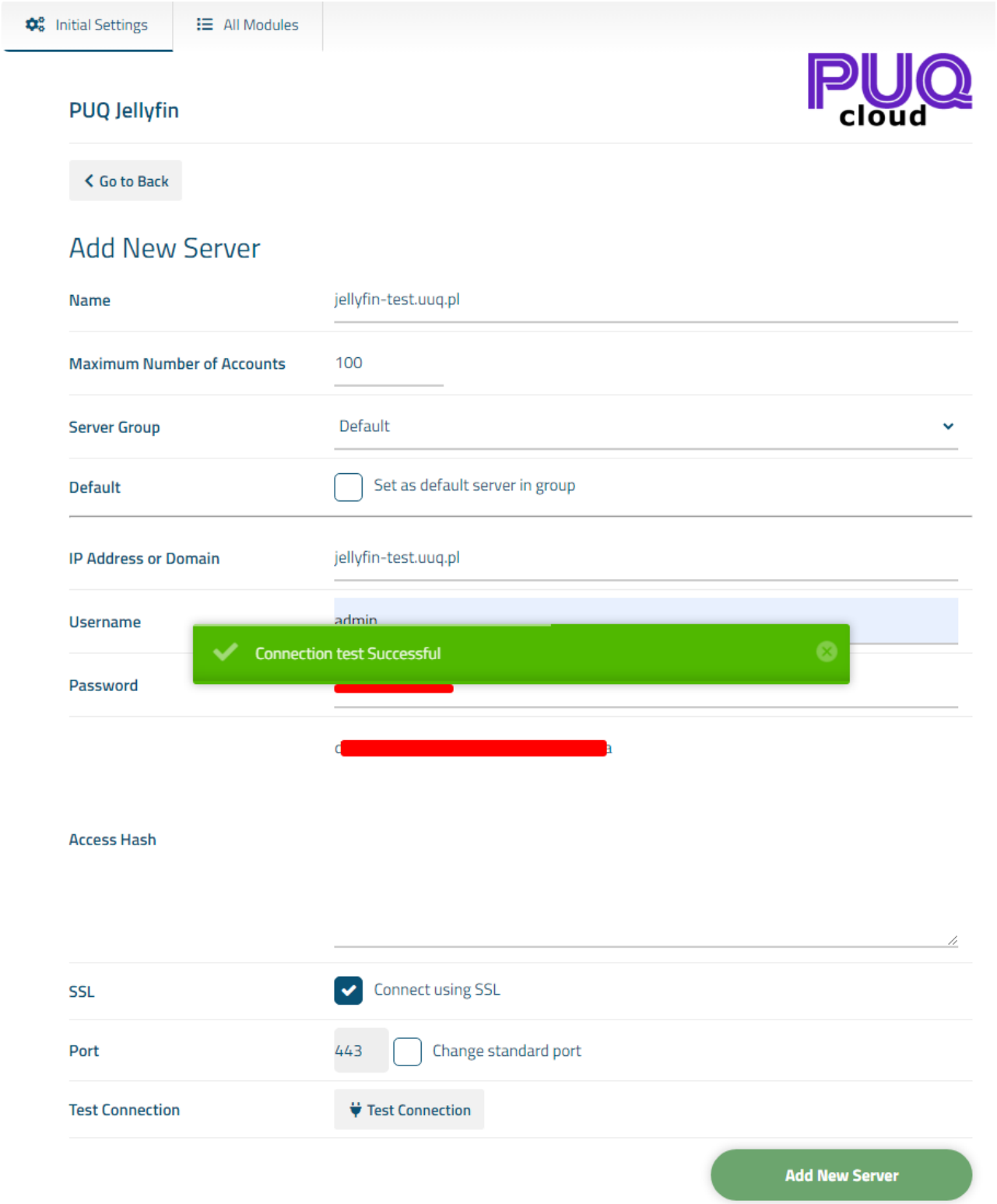
3. In the opened page, click the '**Add Server**' button.



4. On the opened page, enter all the necessary information:

- **Name**: Displayed name of the server.
- **Maximum Number of Accounts**: The number of services that can be on this server.
- **Server Group**: Optionally, choose the server group.
- **IP Address or Domain**: The address of the Emby server you are connecting to.

- **Username:** is the username for the account on Jellyfin.
- **Password:** is the password for the account on Jellyfin.
- **Access Hash**: API key that you created in the previous step on the Emby server.
- Check the **SSL** box if you want to use SSL-encrypted connection. If necessary, specify the port and perform a connection test.



Service configuration

Jellyfin module WISECP

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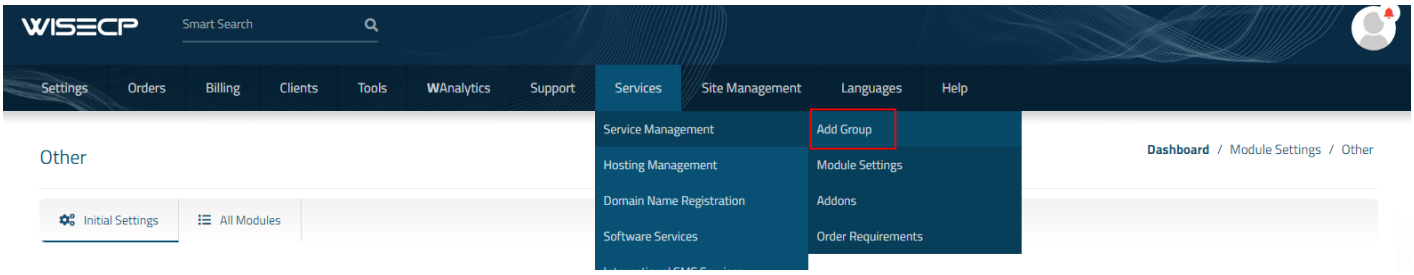
> If you do not have a **Service Group** where you want to place the new service, you need to create a new **Service Group**

1. Log in to the administrative area of your **WISECP**.

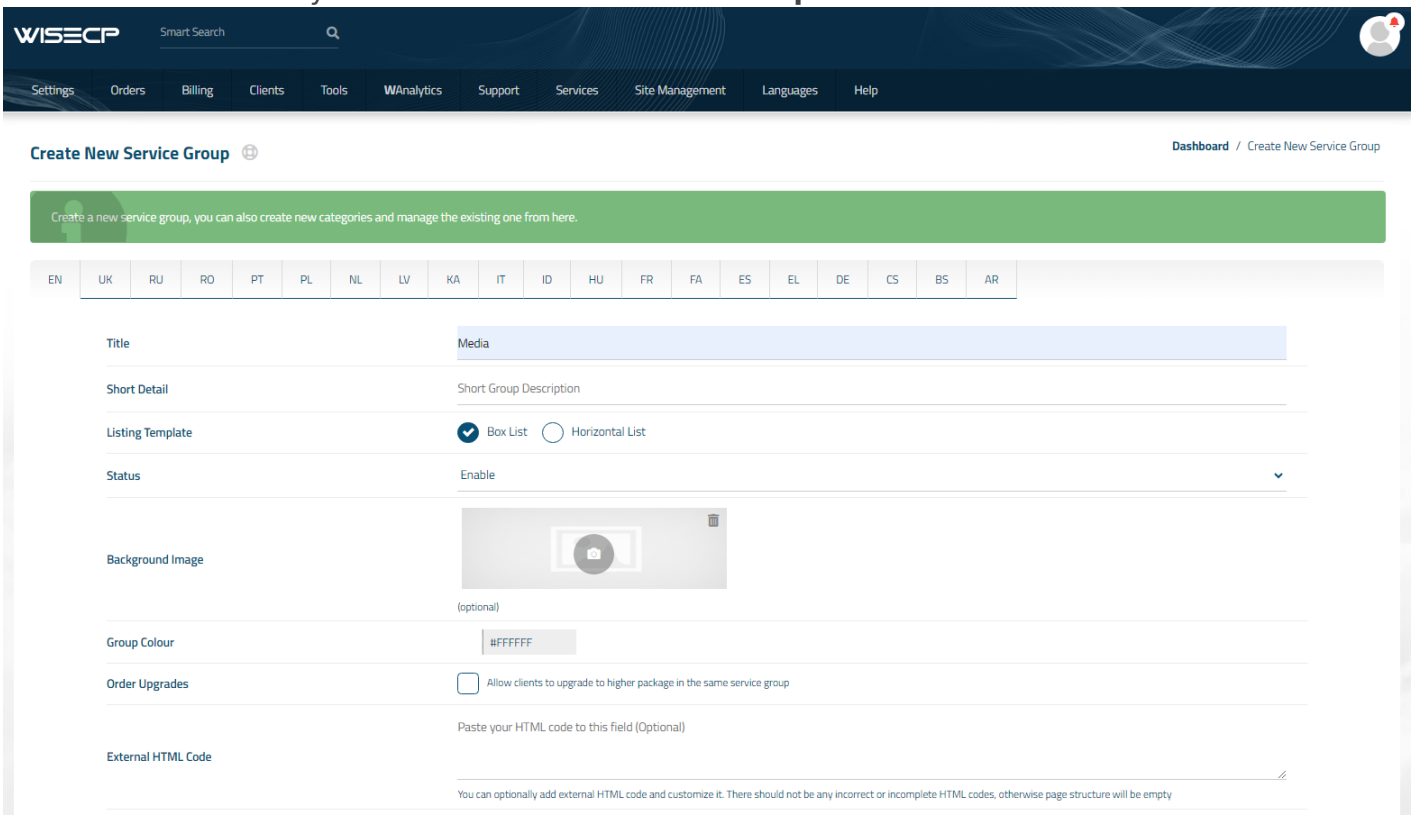
2. Create New Service Group

Go to

```
Services -> Service Management -> Add Group
```



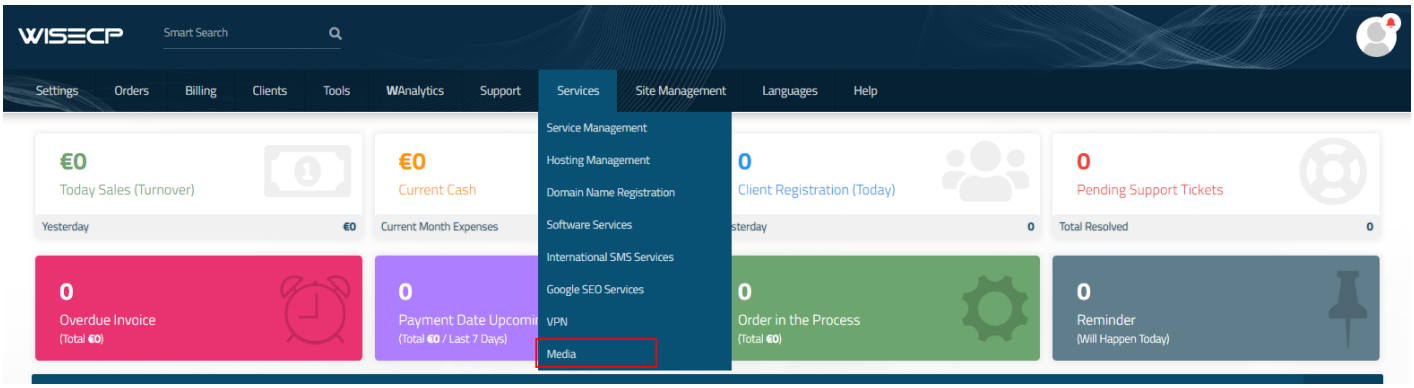
Enter all the necessary data and click the '**Create Group**' button.



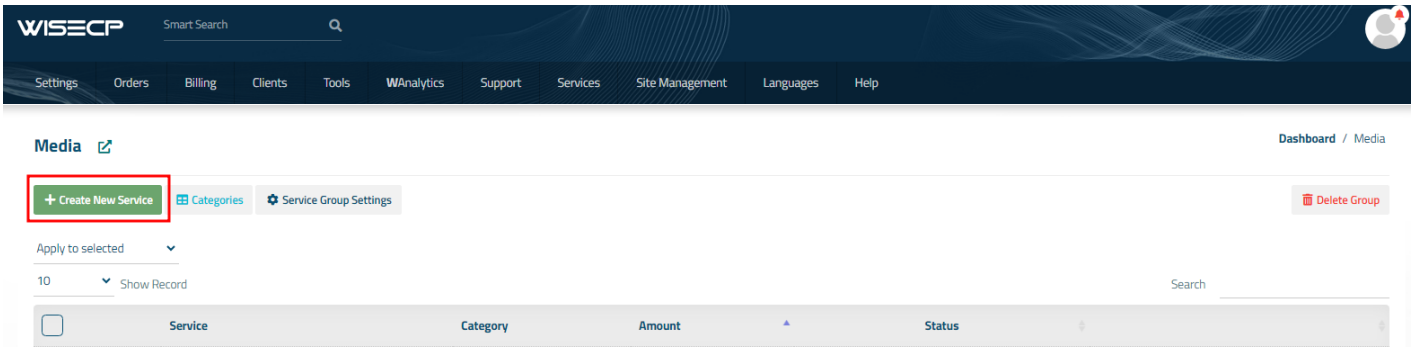
3. Adding a New Service

Go to

```
Services -> our service group where you need to add the new service.
```

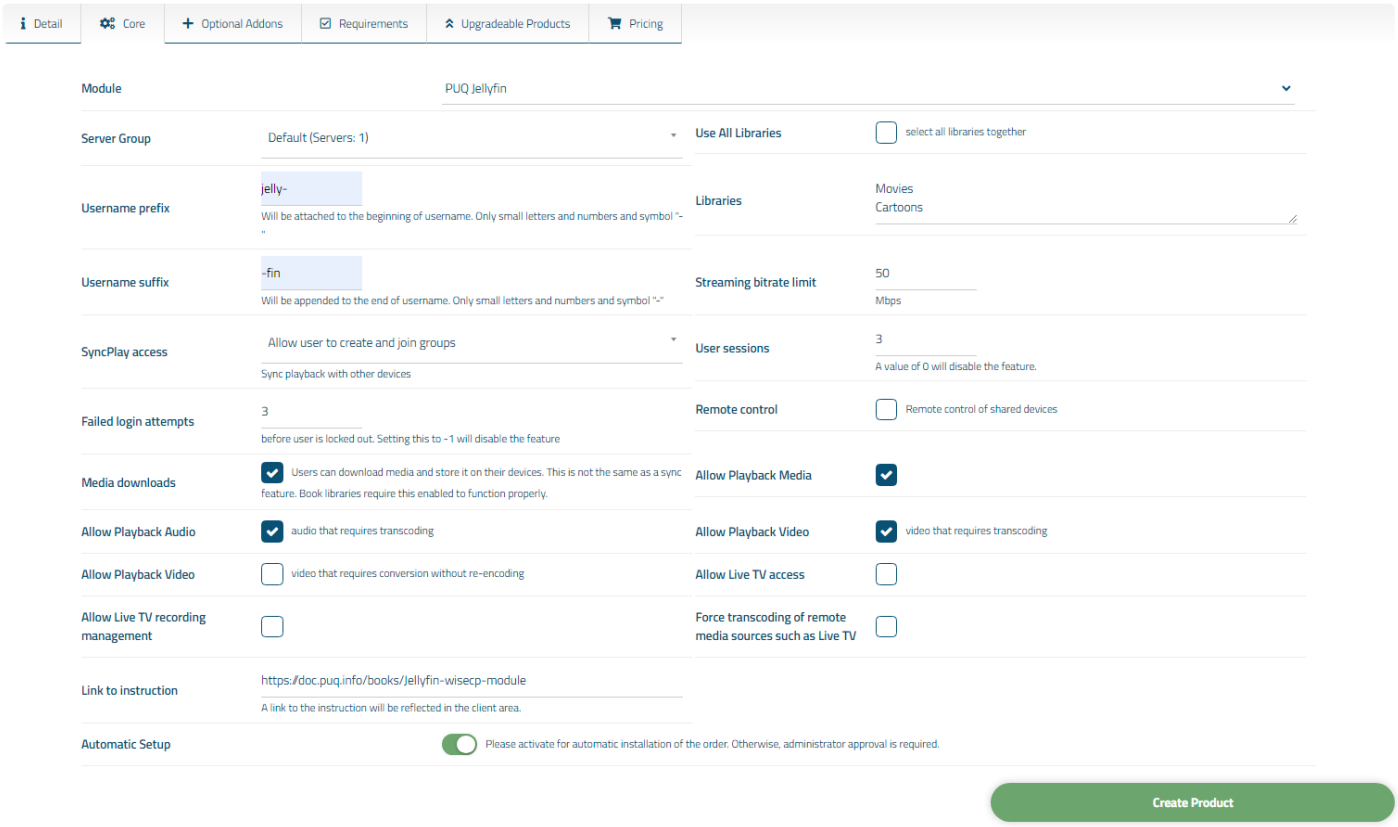


In the opened window, click the '**Create New Service**' button.



On the opened page, enter all the necessary details for your new service and navigate to the '**Core** ' tab.

Select the '**PUQ Jellyfin**' module from the drop-down list of modules.



4. Fill in the configuration options according to your preferences.

Libraries:

- **Use All Libraries**: Choosing all of libraries from your Jellyfin server
- **Libraries**: The libraries you want to make available to customers of this product.
  (IMPORTANT! Start a new line for each new library)
  Example:
  "Movies
  Beginner`s Programming Course
  Comedy"
  IMPORTANT!

If you have a folder named "-", please enter it not as the first one or rename it.
If you don't want any folder to be accessible, type "-".

User Configuration:

- **Streaming bitrate limit:** An optional per-stream bitrate limit for all out of network devices. This is useful to prevent devices from requesting a higher bitrate than your internet connection can handle. This may result in increased CPU load on your server in order to transcode videos on the fly to a lower bitrate.
- **SyncPlay access:** The SyncPlay feature enables to sync playback with other devices. Select the level of access this user has to the SyncPlay
- **Remote control:** Remote control of shared devices (DLNA devices are considered shared until a user begins controlling them)
- **Media downloads:** Users can download media and store it on their devices. This is not the same as a sync feature. Book libraries require this enabled to function properly.
- **User sessions:** Set the maximum number of simultaneous user sessions.
  A value of 0 will disable the feature.
- **Failed login attempts:** Determine how many incorrect login tries can be made before lockout occurs.
  A value of zero means inheriting the default of three tries for normal users and five for administrators. Setting this to -1 will disable the feature.
- **Username prefix/Username suffix:** Necessary in order to generate a username for the service, in the format: **prefix<client_id>-<service_id>suffix**

Allow playback (Restricting access to transcoding may cause playback failures in clients due to unsupported media formats)

- **media**
- **audio that requires transcoding**
- **video that requires transcoding**
- **video that requires conversion without re-encoding**

Feature access:

- **Allow Live TV access**
- **Allow Live TV recording management**
- **Force transcoding of remote media sources such as Live TV**

Links

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

Add new library/item in Jellyfin

Jellyfin module **WISECP**

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New library:

To create a new library, you should to **create a folder** in your jellyfin server.

First, navigate to the root of your project "/" and enter the following commands:

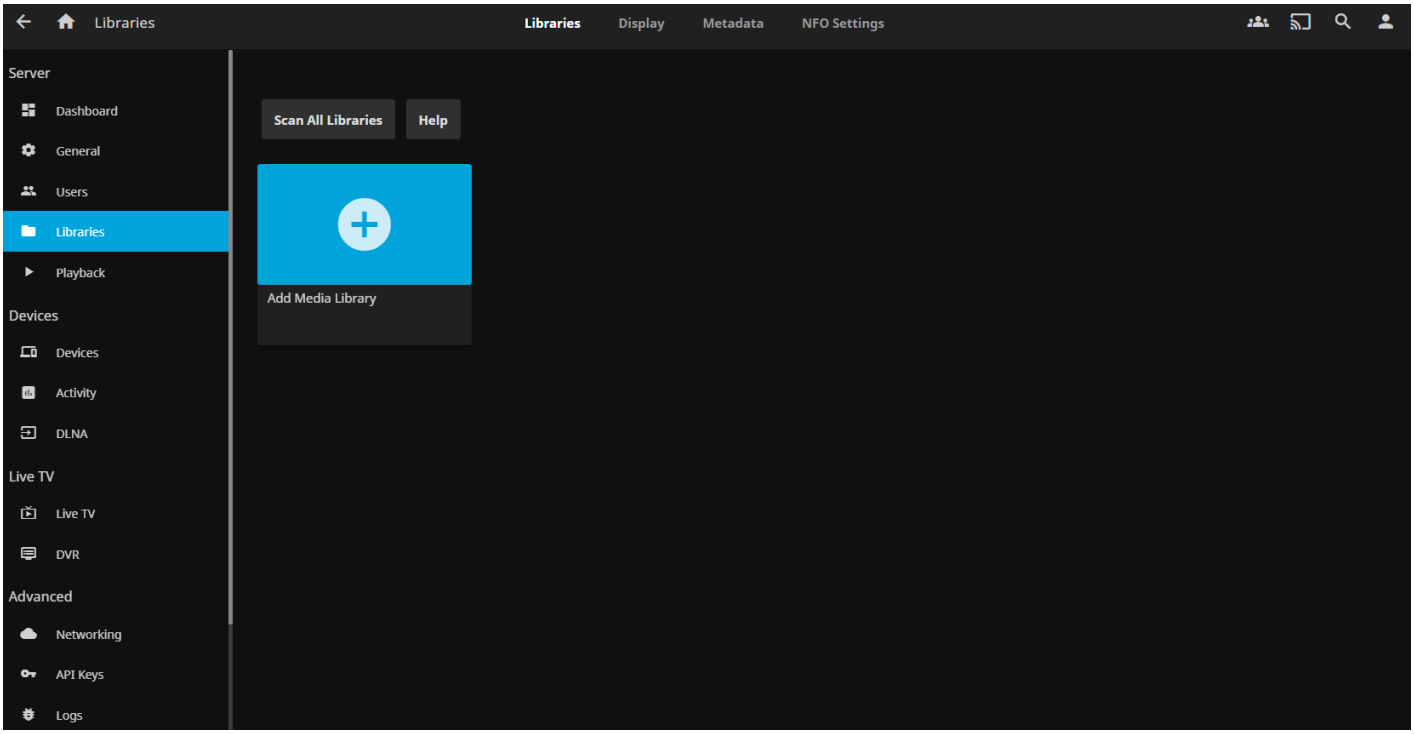
```
cd mnt
```

```
mkdir LIBRARY_NAME
```

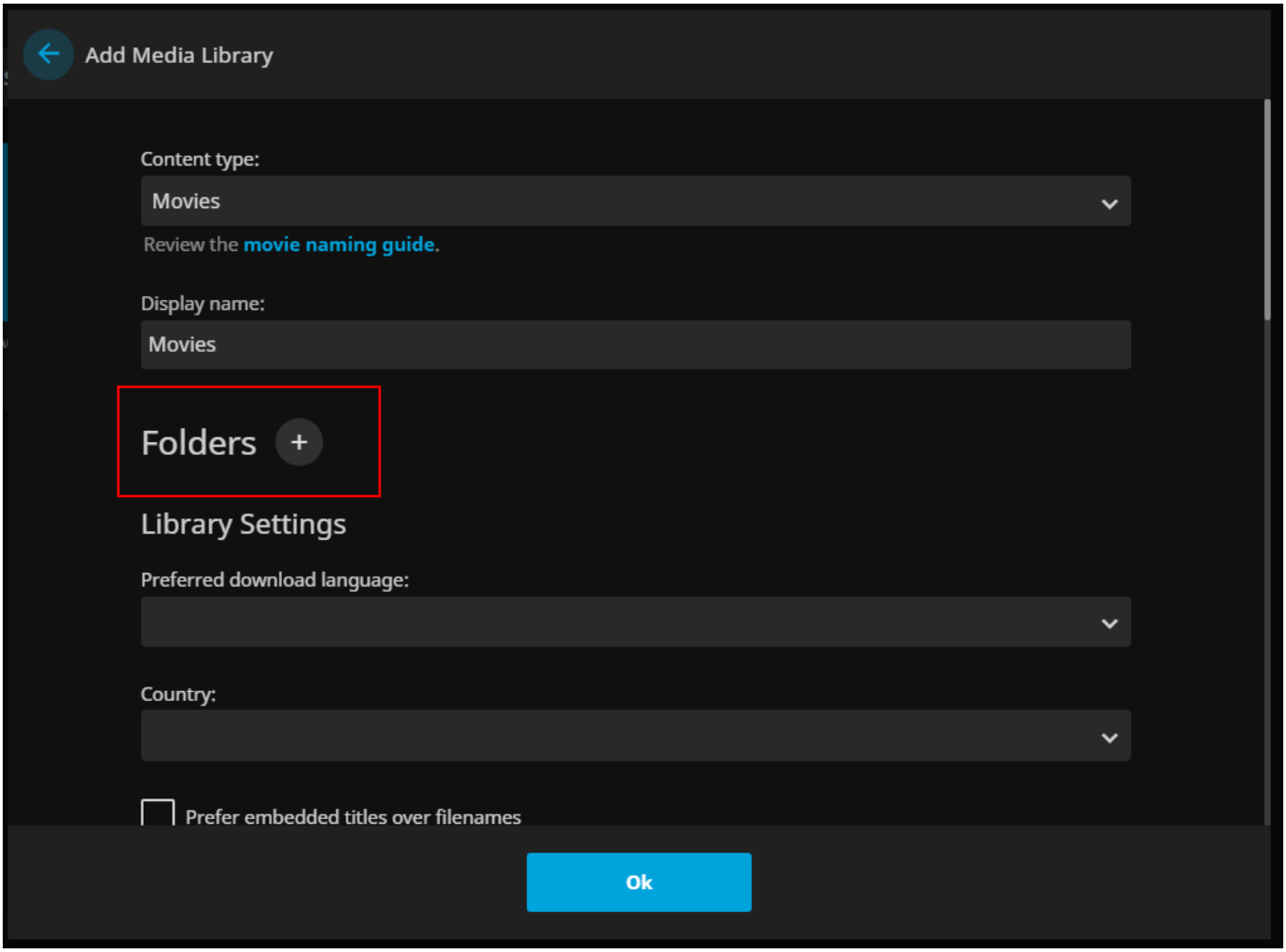
LIBRARY_NAME - The name of the new library.

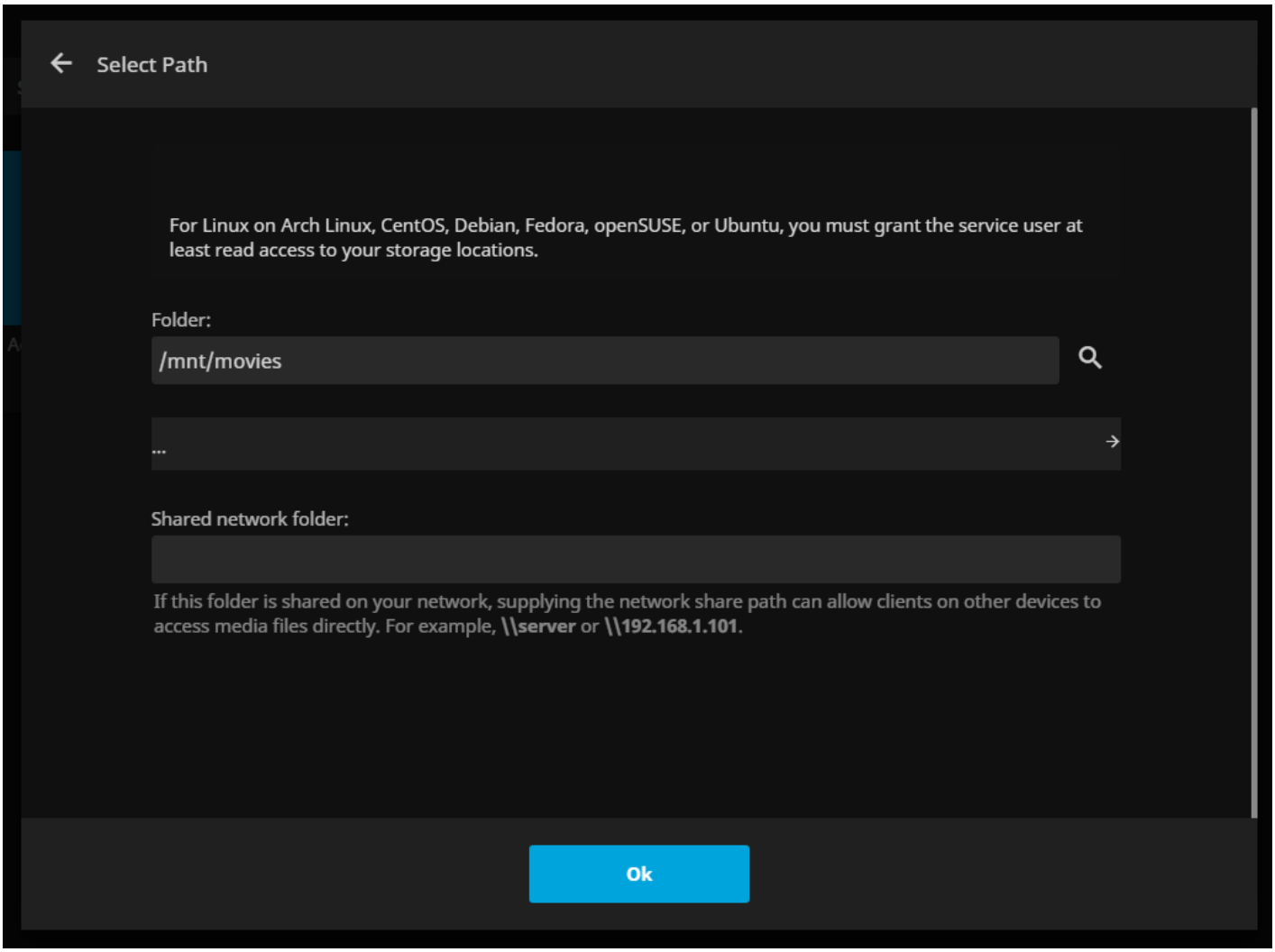
After creating a folder, let's create a library in Jellyfin:

Add a new library:



Assign the appropriate folder to this library:





New item:

To download a new item, navigate to the root of your project "/" and enter the following commands:

```
cd mnt/LIBRARY_NAME
```

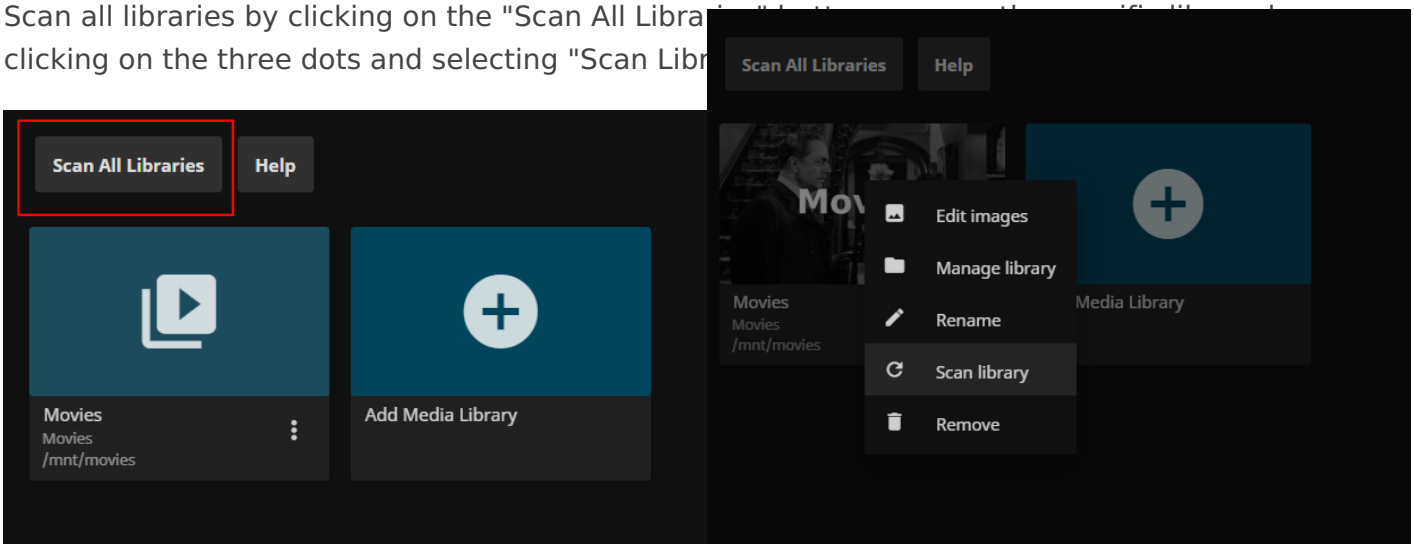
```
wget DOWNLOAD_ITEM_URL
```

LIBRARY_NAME - The name of the library.

DOWNLOAD_ITEM_URL - The download URL of the item you want to upload to the server.

After all

Scan all libraries by clicking on the "Scan All Libra
clicking on the three dots and selecting "Scan Libr



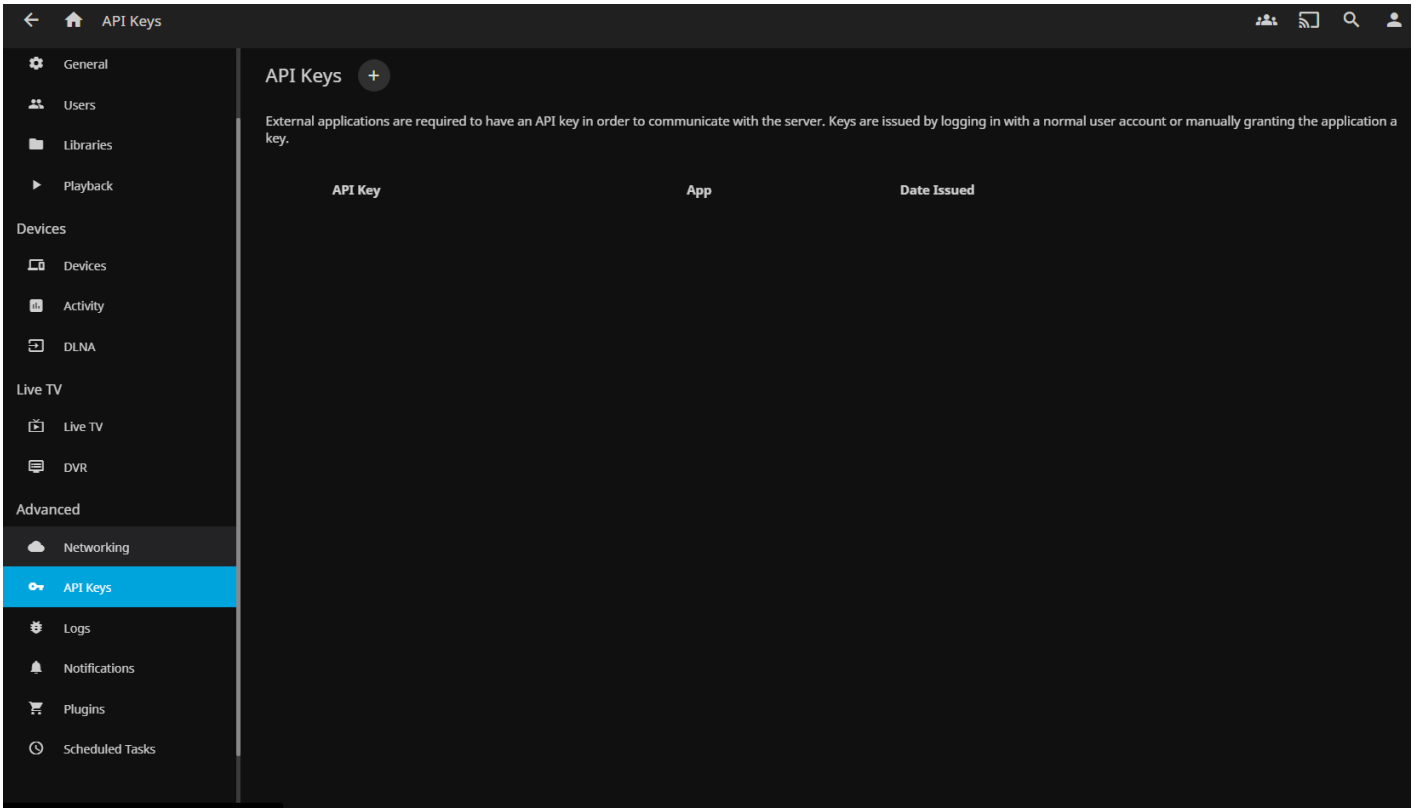
Getting Access Hash (API key)

Jellyfin module **WISECP**

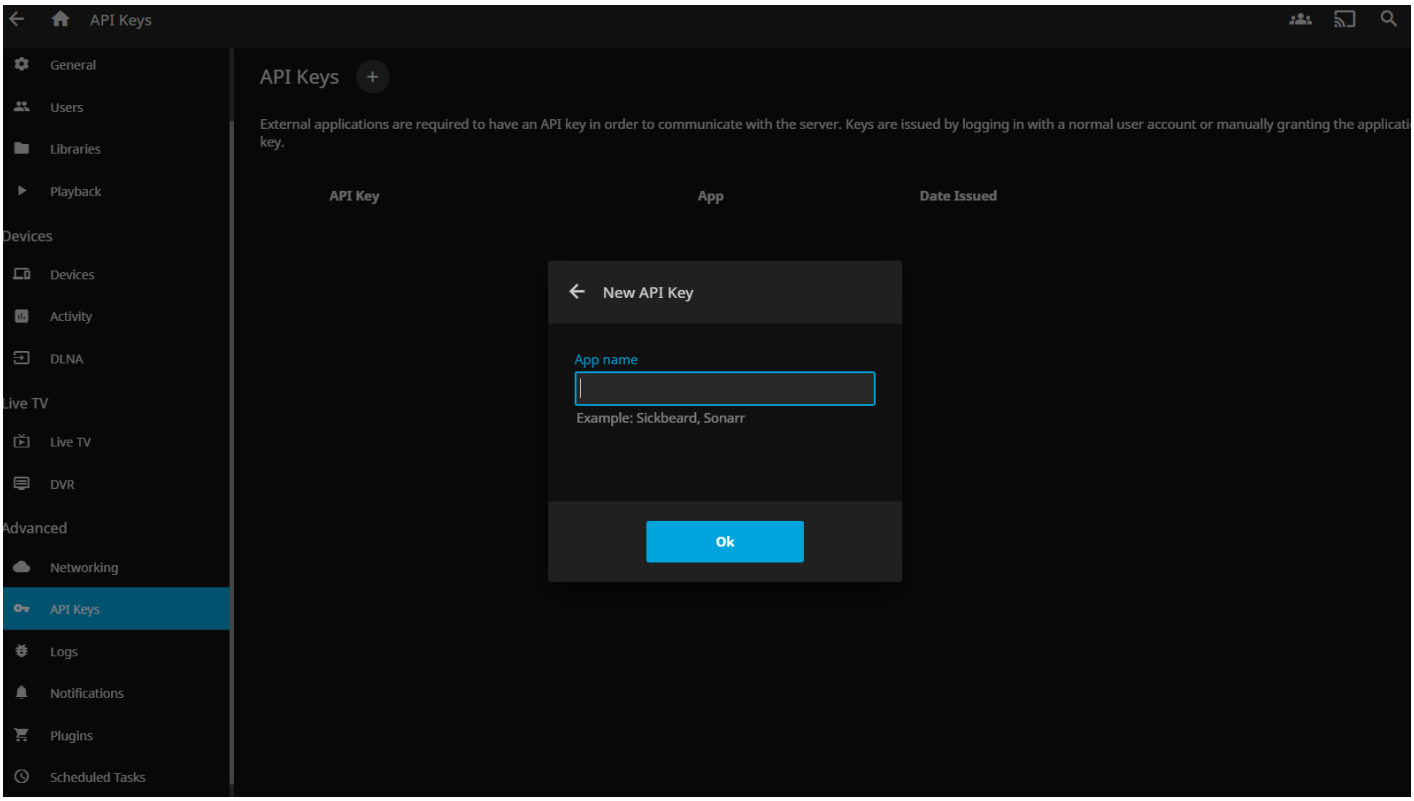
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```
Dashboard -> API Keys
```

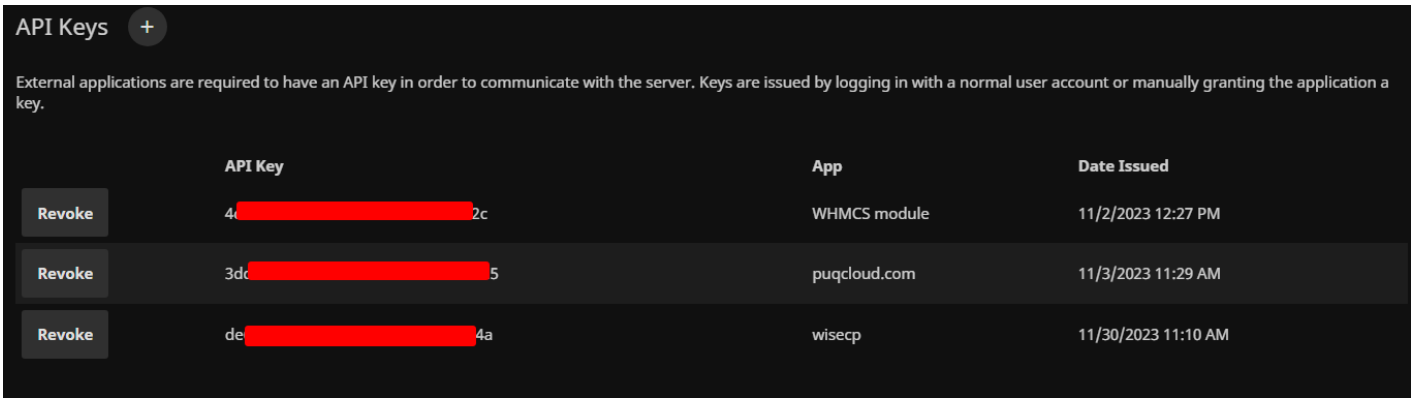
Create a new API Key



Whrite an App Name



Now you can getting an API key



Client Area

Product Home Screen

Jellyfin module WISECP

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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.).
- Jellyfin server address
- Authorization data
- User informations
- List of active devices
- List of enabled user libraries
- Drop all devices
- Unblock user
- Change the Jellyfin user password

Screenshot of the client area

Jellyfin

Client Area / My Services / Media / Jellyfin

Details | Additional Services | Upgrade | Cancellation Request

Order ID
#193

Renew Now

General Information	Invoice #305
Service Group	Media
Service Name	Jellyfin
Services Status	Active
Payment Period	Monthly
Renewed On	08.07.2024
Next Due Date	08.08.2024
Amount : 11zł	

User manual | Web interface | Drop All Devices | Unblock User

Management Media account

Username: jelly-4-193-fin

Status: Enable

Password: ••••••••

Save

Libraries: Beginner`s Programming Course | Clips | Movies | Playlists

Failed Login Attempt: 1/3

Active Sessions: 0/3

Active Devices

10 Show Record

Search

Device Name	App Name	Last Activity
No data available in table		

No Records

Prev Next

Admin Area

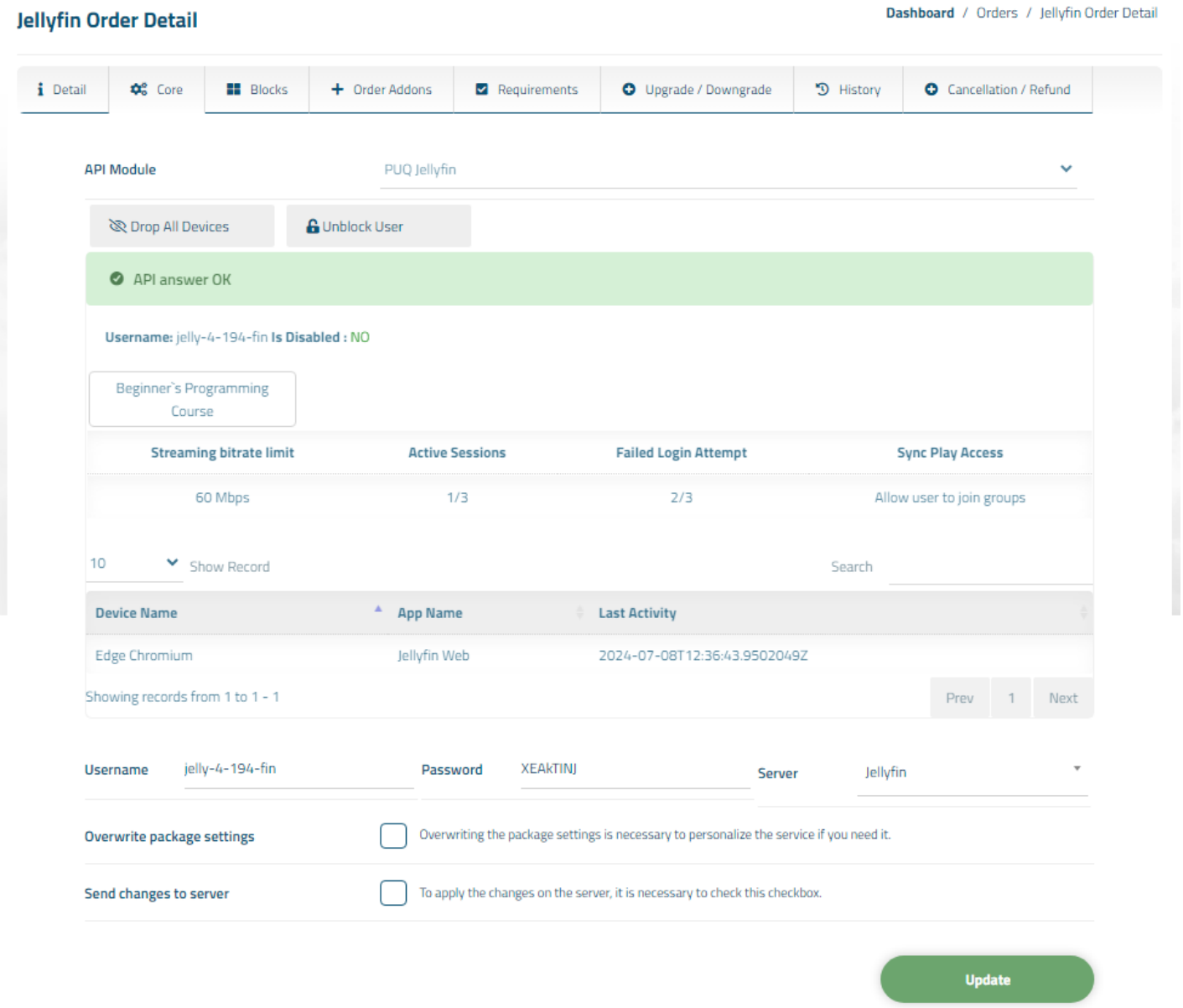
Admin Area

Order Detail

Jellyfin module WISECP

Order now | Download | FAQ

Navigate to the service you want to manage, then go to the '**Core**' tab.



In the opened tab, you have a view of the online status of the service. The available online information includes:

- Connection status to the API
- Information about the Jellyfin account on the **Jellyfin** server
- Information about the account

Also, below are fields with the client's personal data.

You can also individually override package options for the client by checking the '**Overwrite package settings**' box.

> After modifying the configuration options, check the '**Send changes to server**' box to save the data to the Jellyfinserver.

Username	jelly-4-133-fin	**Password**	Js46hzq4kF1b	**Server**	jellyfin-test.uuq.pl

Server Group	Default (Servers: 1)	**Use All Libraries**	☐ select all libraries together
Username prefix	jelly- Will be attached to the beginning of username. Only small letters and numbers and symbol "-"	**Libraries**	Movies
Username suffix	-fin Will be appended to the end of username. Only small letters and numbers and symbol "-"	**Streaming bitrate limit**	50 Mbps
SyncPlay access	Allow user to create and join groups Sync playback with other devices	**User sessions**	3 A value of 0 will disable the feature.
Failed login attempts	3 before user is locked out. Setting this to -1 will disable the feature	**Remote control**	☑ Remote control of shared devices
Media downloads	☑ Users can download media and store it on their devices. This is not the same as a sync feature. Book libraries require this enabled to function properly.	**Allow Playback Media**	☑
Allow Playback Audio	☑ audio that requires transcoding	**Allow Playback Video**	☐ video that requires transcoding
Allow Playback Video	☑ video that requires conversion without re-encoding	**Allow Live TV access**	☐
Allow Live TV recording management	☑	**Force transcoding of remote media sources such as Live TV**	☐
Link to instruction	https://doc.puq.info/books/jellyfin-wisecp-m A link to the instruction will be reflected in the client area.		

Overwrite package settings ☑ Overwriting the package settings is necessary to personalize the service if you need it.

Send changes to server ☑ To apply the changes on the server, it is necessary to check this checkbox.

Update