Ezserver P2P Tutorial

Revision: 02/10/24

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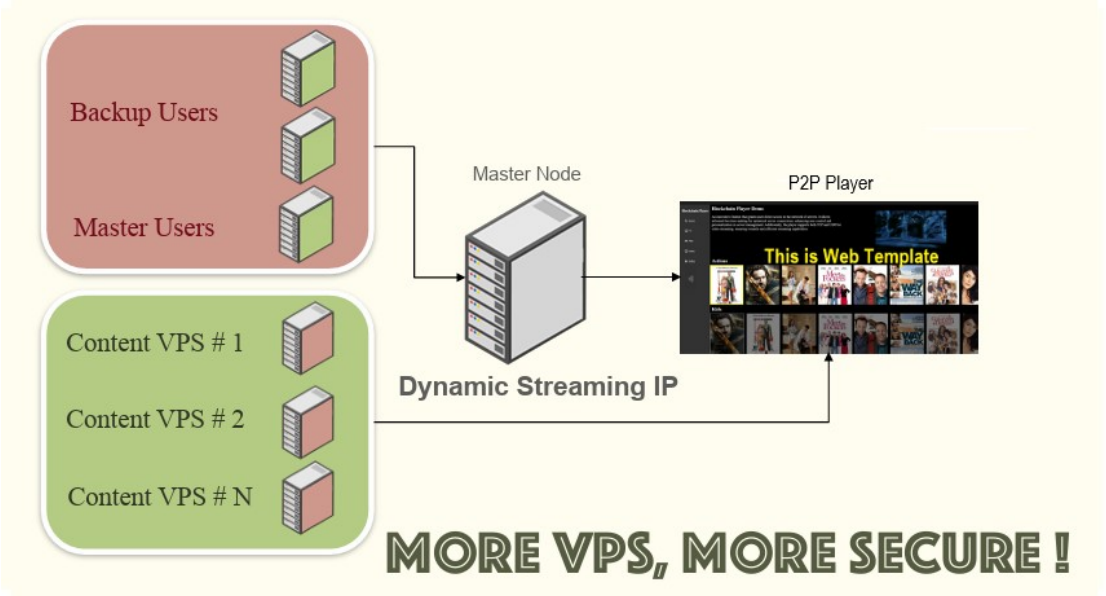
1 Ezserver

Save Server Download Bandwidth



Ezserver's P2P version harnesses the power of P2P technology to effectively minimize server download bandwidth while bolstering reliability through Blockchain integration. Its comprehensive features include:

1. **Ezserver:** A robust STUN server capable of working with full-cone NAT, (address)-restricted-cone NAT, and port-restricted cone NAT. Additionally, it acts as a TURN server compatible with Symmetric NAT configurations.
2. **Middleware:** Empowering users with a P2P Web Portal accessed through a Chrome extension, offering an extensive array of channels and films directly within the Chrome browser environment.
3. **P2P Player:** Seamlessly integrated within an Android App, providing users with effortless access to content across various devices.

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Requirement:

Minimum Server Requirement:

- **Linux:** Ubuntu 20.04(Recommended), Debian, Centos
- **CPU:** 4v Core
- **RAM:** 8GB
- **Storage:** 160 GB
- **Bandwidth:** 1Gbps unmetered

Minimum Android Requirement:

- **CPU:** Dual-Core(1.2xGHz)
- **RAM:** 1GB
- **Storage:** 1 GB
- **Bandwidth:** 1Gbps
- **Device:** STB (recommended), Mobile Phone, Android Smarter TV

Related Information:

Ezserver Official website:

http://www.ezhometech.com/

Ezserver User Guide:

http://www.ezhometech.com/html/ezserver_user_guide.html

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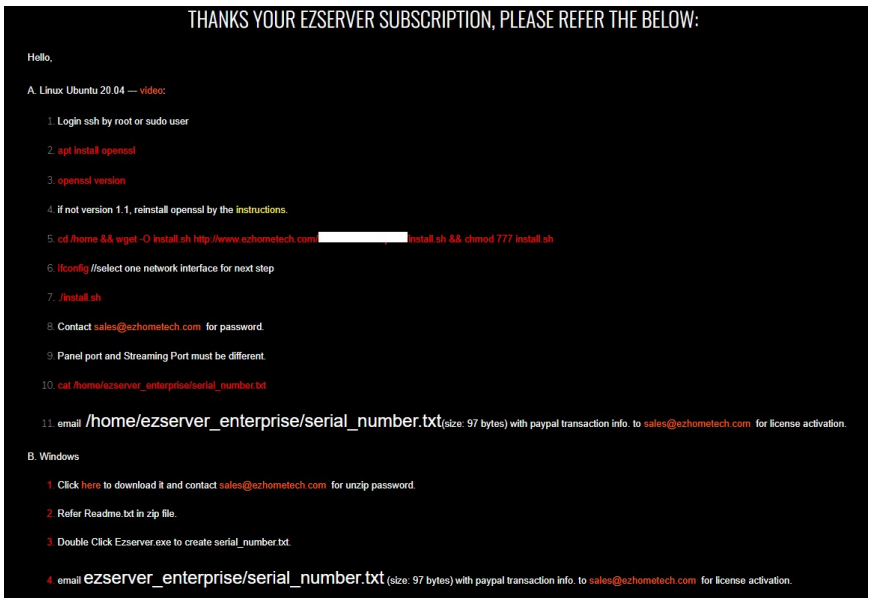
1.1 Installation and License activation

Get checkout web page after you buy Ezserver License and contact us for installation password.



Linux:

- Download install.sh from the checkout web page.
- ./install.sh with installation password
- Email us the ezserver_p2p/serial_number.txt (size: 74bytes) to active Ezserver license.

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1.2 Start / Restart / Shutdown

Linux Version: ezserver at /home/ezserver_p2p folder

- Start:
  - ✧ sudo -i
  - ✧ cd /home/ezserver_p2p
  - ✧ ./start.sh
- Restart:
  - ✧ sudo –i
  - ✧ cd /home/ezserver_p2p
  - ✧ ./restart.sh
  - ✧ or Login Panel and Click the below button

wait 30~60 seconds to relogin panel.

- Shutdown:
  - ✧ sudo –i
  - ✧ cd /home/ezserver_p2p
  - ✧ ./shutdown.sh

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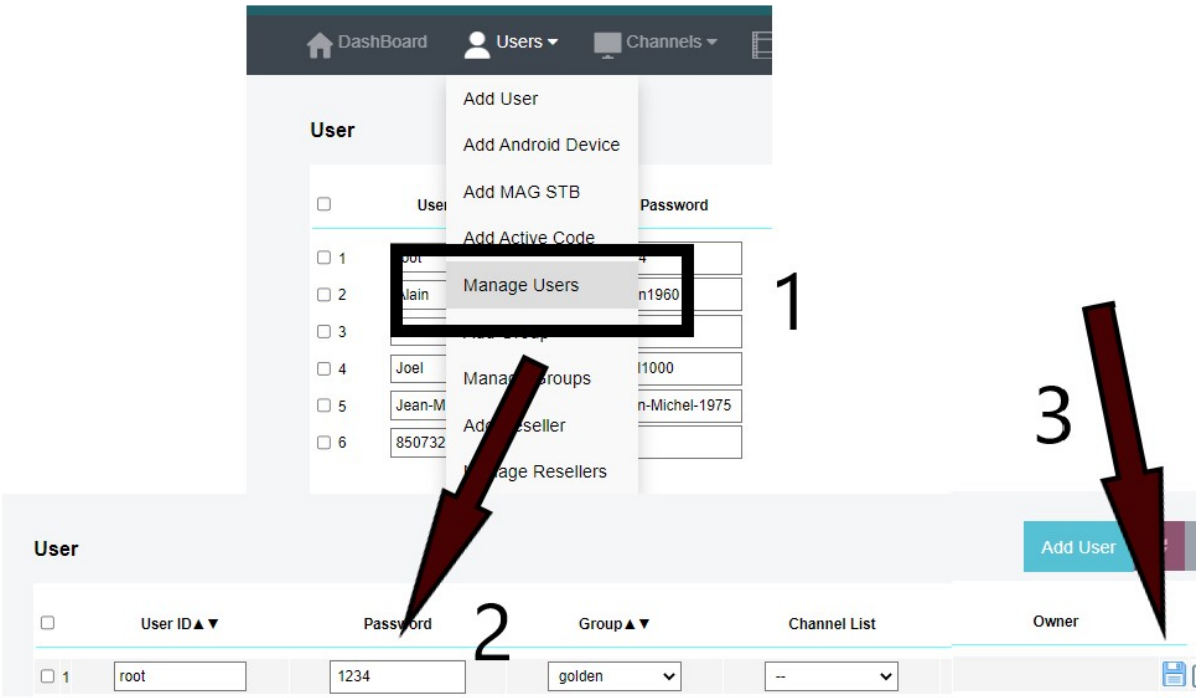
1.3 Admin Password



1.4 Software Update

- sudo -i
- cd ezserver_p2p
- ./patch.sh
- input password
- ./restart.sh

1.5 User Authorization for Streaming URL

- **Enable user_authorization in ezserver_p2p/ezserver_config.txt**
  - user_authorization=1: Streaming URL with token or username/password.
  - user_authorization=0: Streaming URL without username/password
    - Add username “free” with any password in User List to get content URLs.

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2.Admin Panel

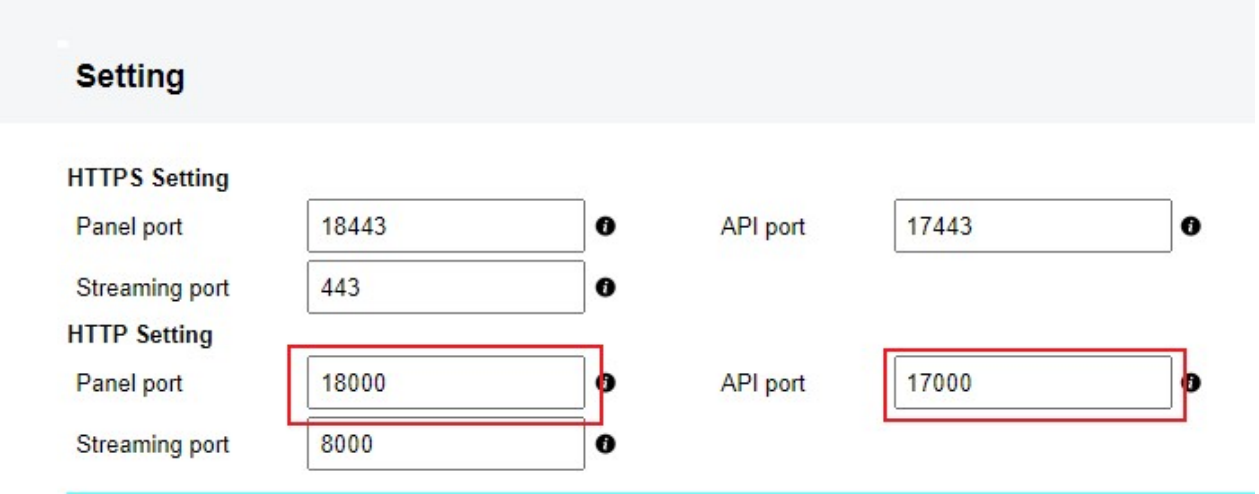
HTTP Protocol:

Admin Panel Input URL: **http://domain:panel_port**

Ex. http://192.168.0.9:18000/

Reseller Panel URL: **http://domain:API_port/reseller/index.htm**

Ex. http://192.168.0.9:17000/reseller/index.htm



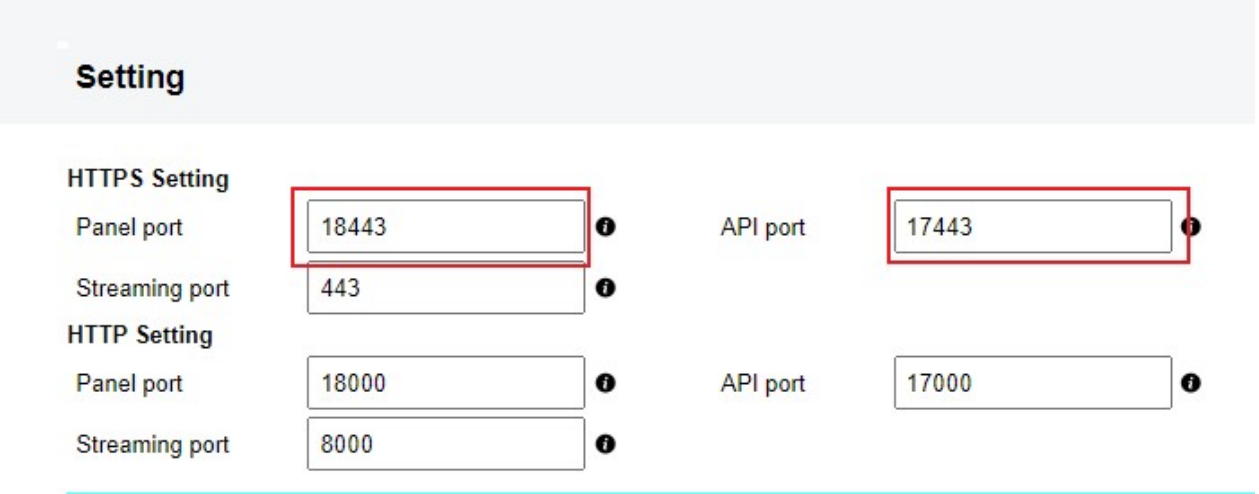
HTTPS Protocol: **(Support Ubuntu 20.04 only)**

Admin Panel Input URL: **http://domain:https_panel_port**

Ex. http://192.168.0.9:18443/

Reseller Panel URL: **http://domain:https_API_port/reseller/index.htm**

Ex. http://192.168.0.9:17443/reseller/index.htm



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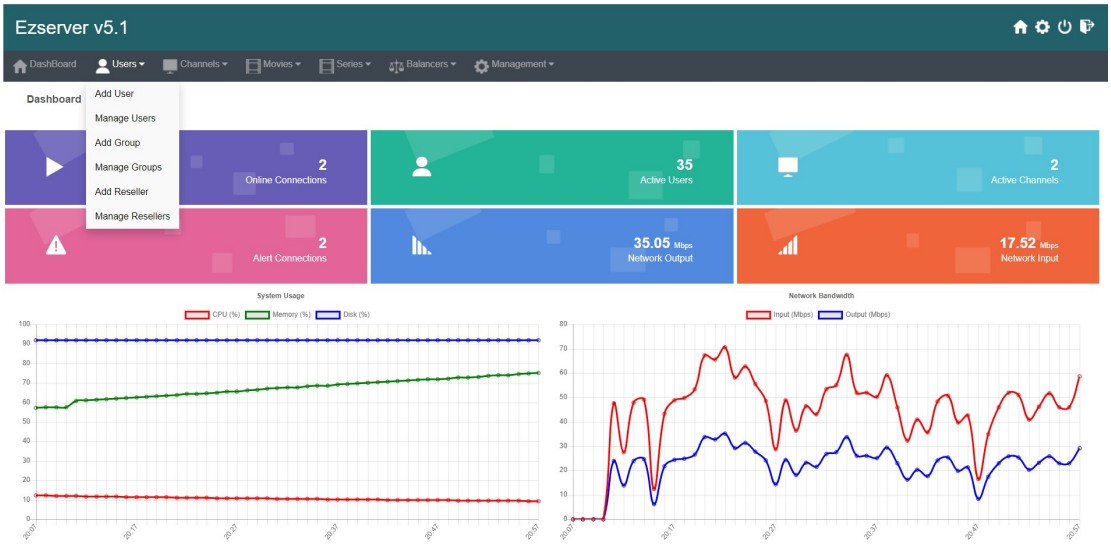

- **User / Group / Reseller management:** create, modify and delete users, groups, Reseller.
- **Channel / EPG management:** create, modify, delete or import channels,, epg.
- **Movies management:** create, modify, delete or import movies.
- **Series management:** create series.
- **User Agent Protection:** Add, delete User Agent for Player protection
- **Blacklist management:** show and delete Locked IP.
- **Statistics:** show Channel and Movies watched information.
- **Setting**

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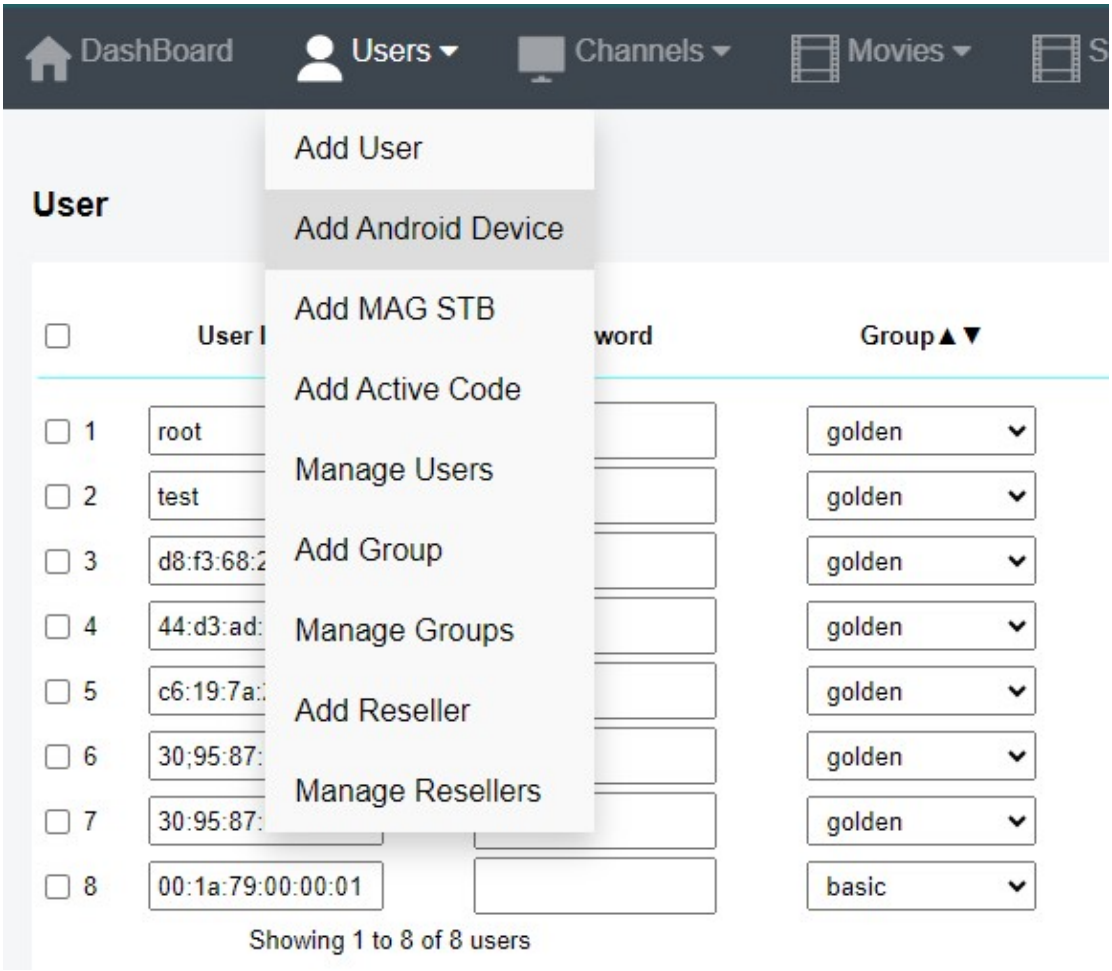
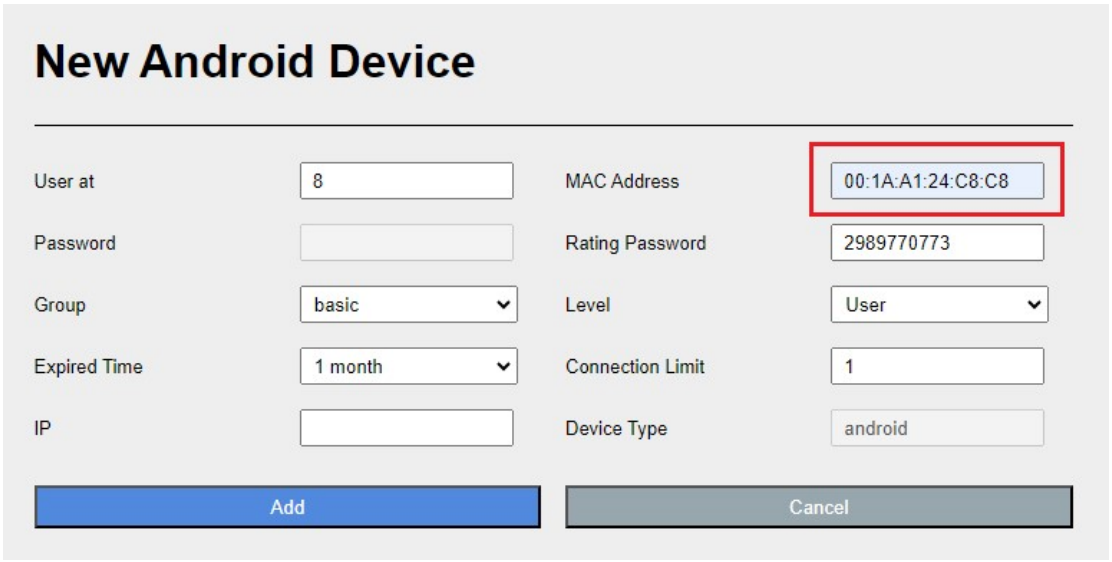
2.1 User Management

There are 3 options for player activation.

- Click “**Add Android Device**” and Input Device Mac Address





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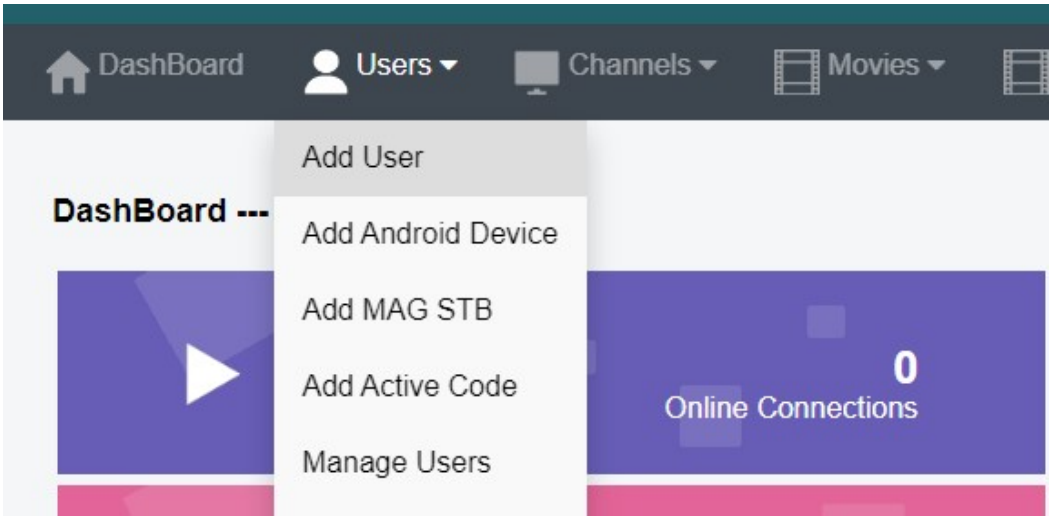
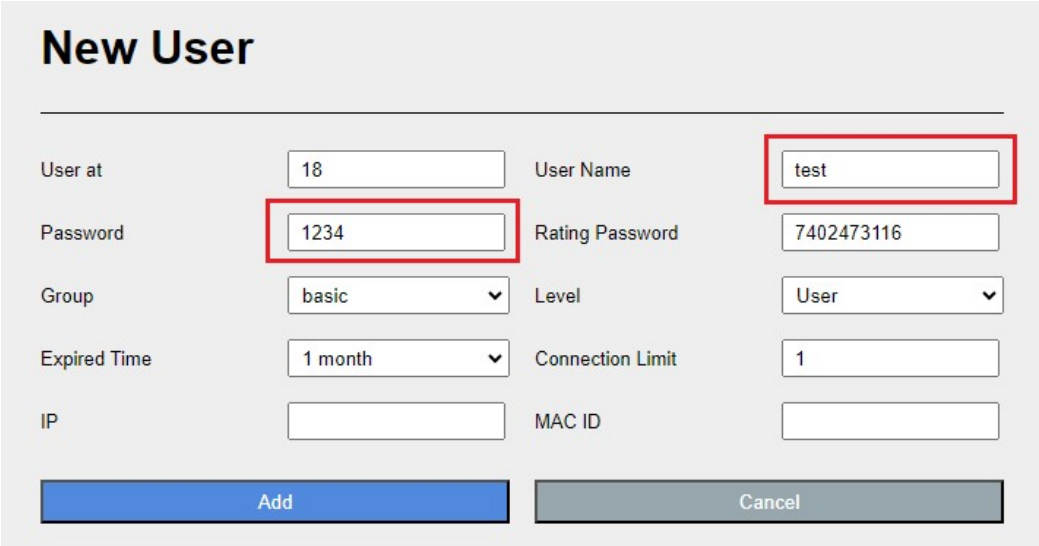
- Click “**Add User**” and Input User name / password





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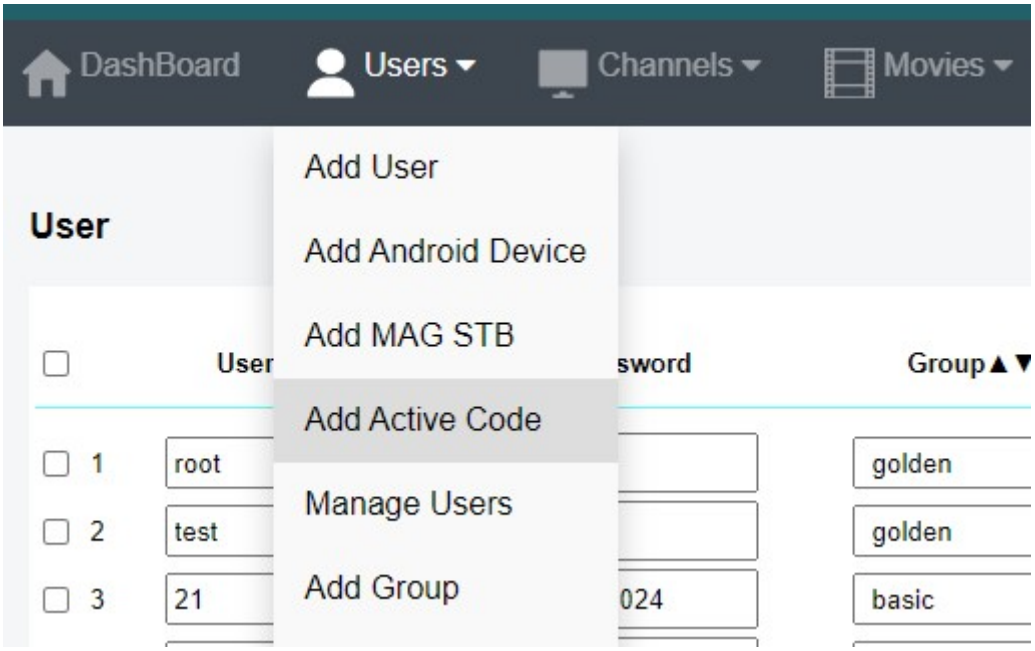
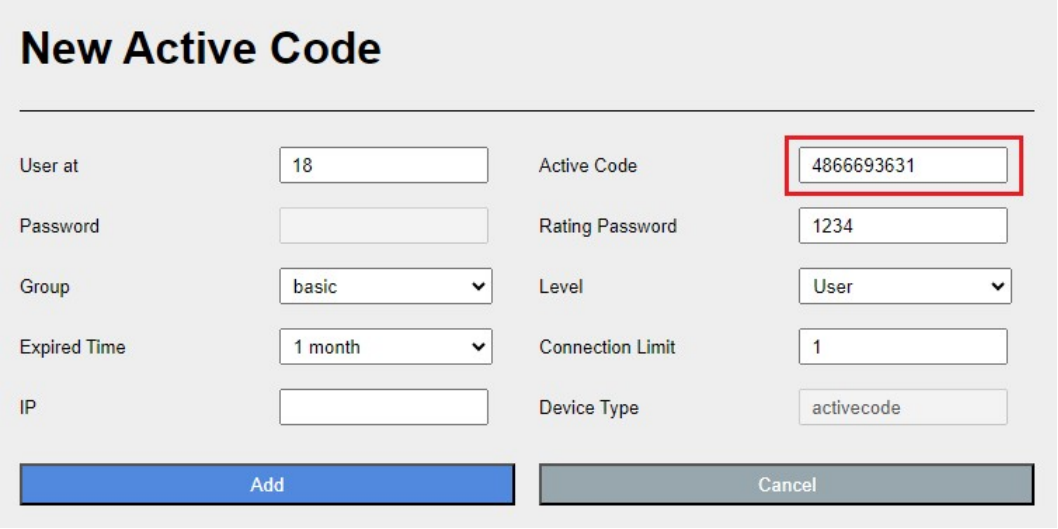
- Click “**Add Active Code**”





- ✧ Active Code is auto geenerated by system random generator.
- ✧ Each active code is limited by one device.

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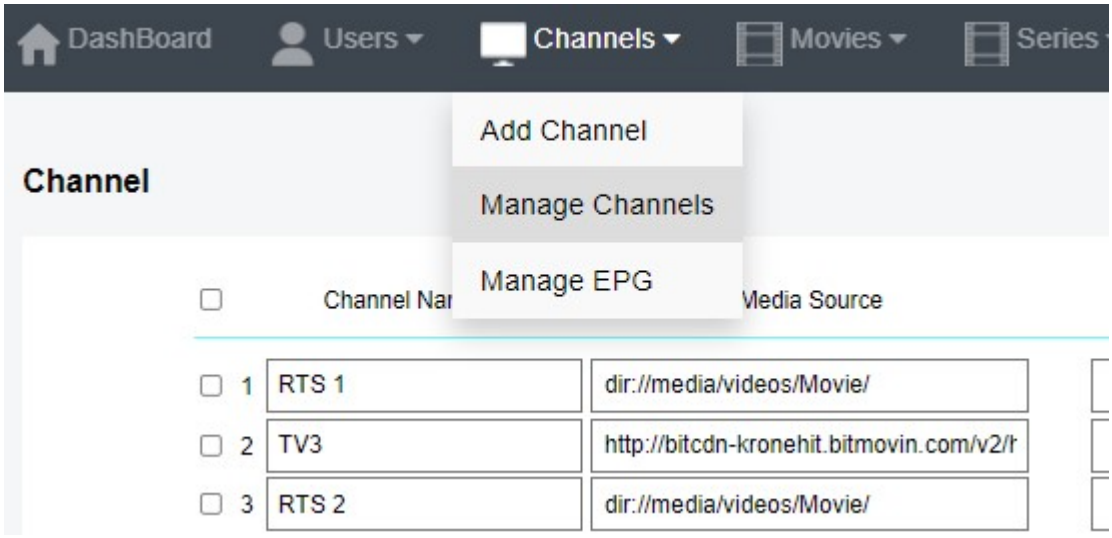
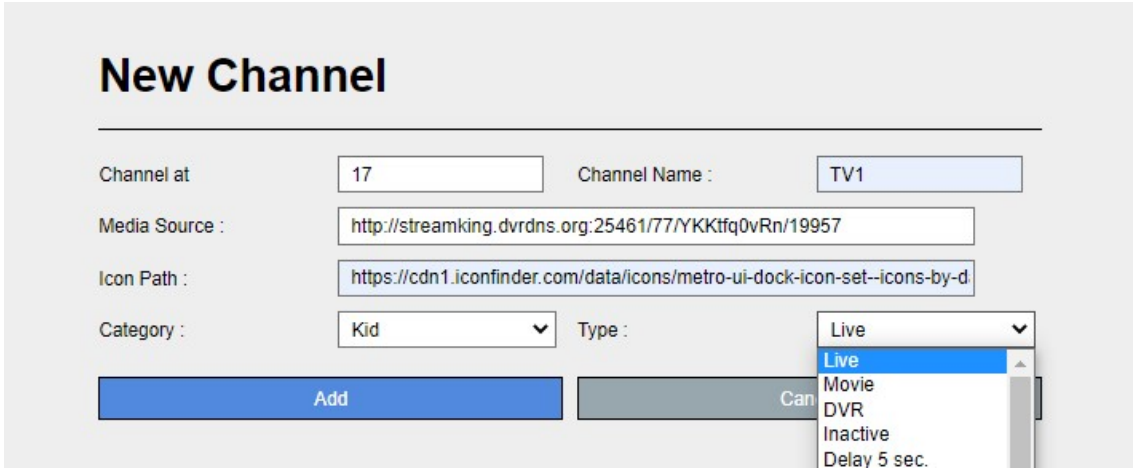
2.2 Channel Management

2.2.1 Add new channel

1.



2.



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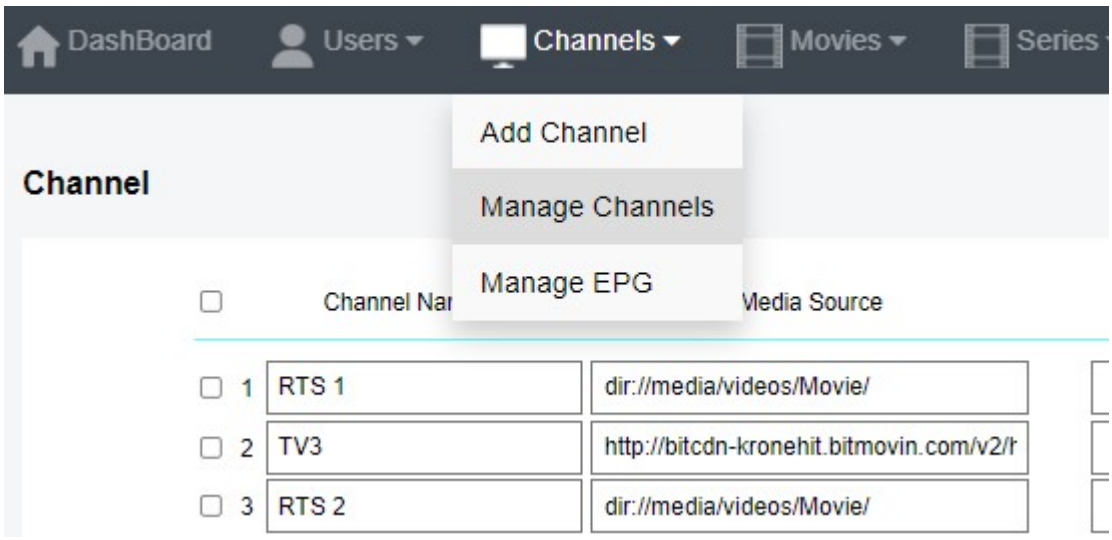
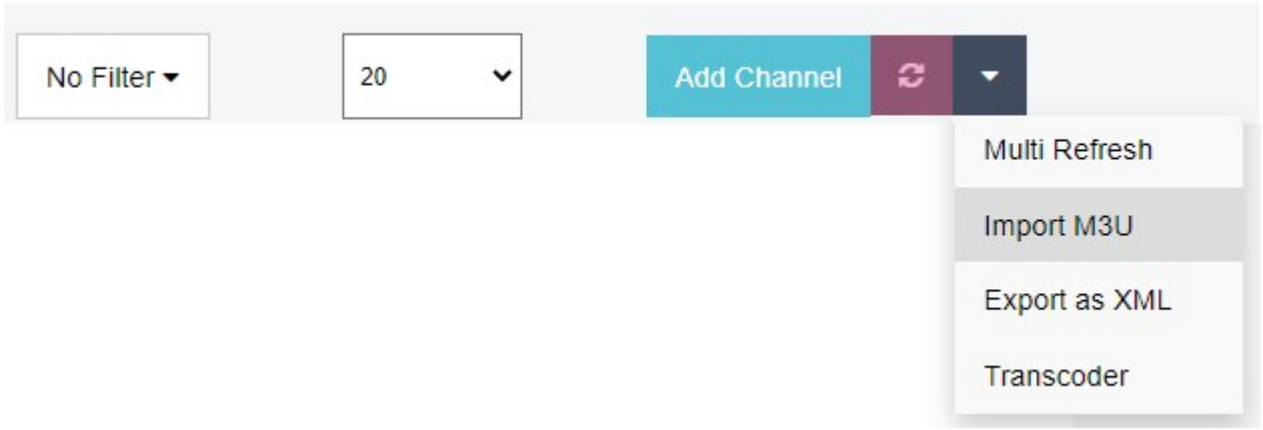
2.2.2 Import channels by m3u link

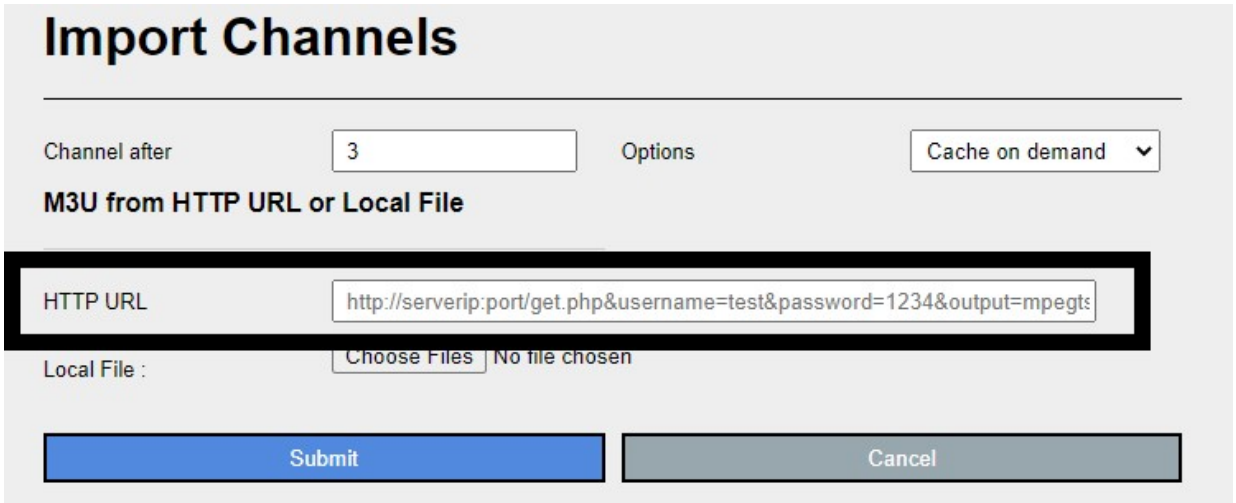
1. Click Channels: Manage Channels: Import M3U



2. Click Import M3U



3. Input HTTP M3U Link and Click **Submit** button



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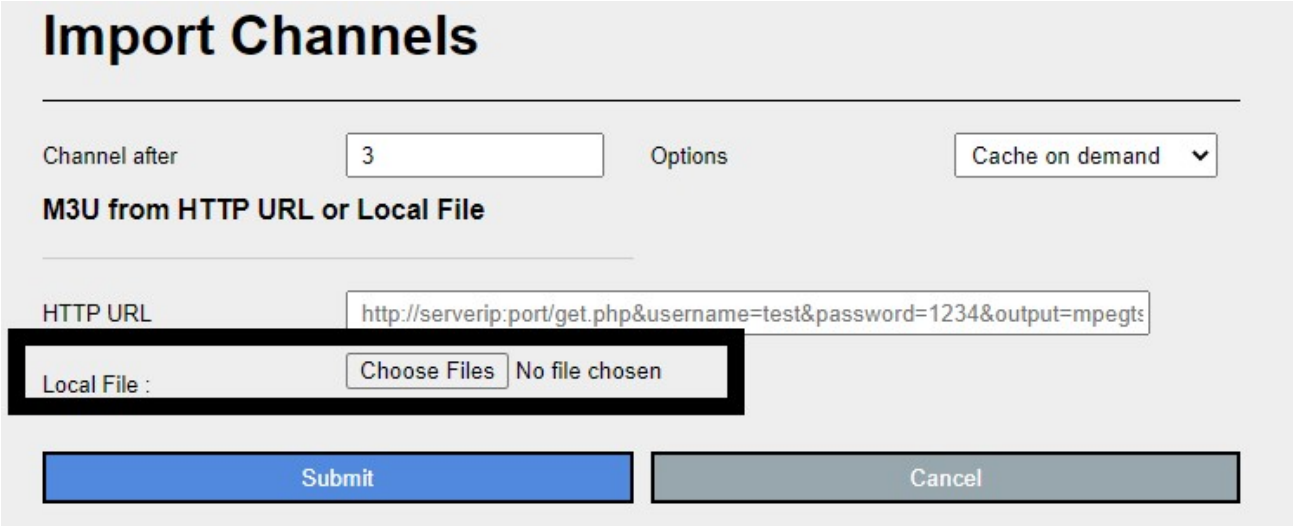
4. Then restart ezserver by ./restart.sh cmd in ssh console or click panel power off button, then wait for 1~2 min. to login panel again.

5. if any issue after import by the above way., you can refer the below steps

- Use Chrome to download your m3u link and rename it to **new.m3u**
- Click **Choose Files** to select new.m3u and click **Submit** button.



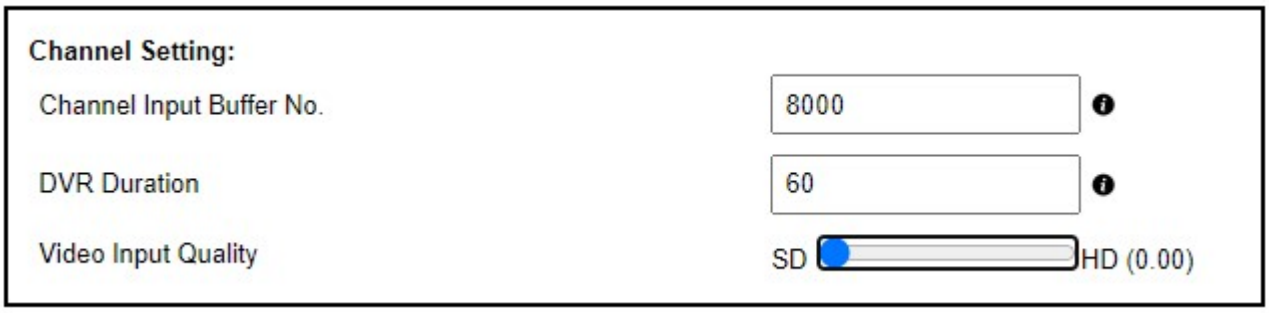
6. if any issue after import by the above way., you can refer the below steps

- Use Chrome to download your m3u link and rename it to **new.m3u**
- Upload **new.m3u** into server **/home/ezserver_p2p** folder
- Open /home/ezserver_p2p/**channel_definition.xml**
- Remove all lines **except the 1st line** and save it.
- Restart ezserver by ./restart.sh in ssh console again
- Import it again by new URL: **http://ezserverIP:panel_port/new.m3u**
- Login panel to check it again.

2.2.3 All SD, HD, FHD channels setting

Click Panel Setting.

1. **SD channel (~2Mbps)**



2. **HD / FHD channel (above 4Mbps)**

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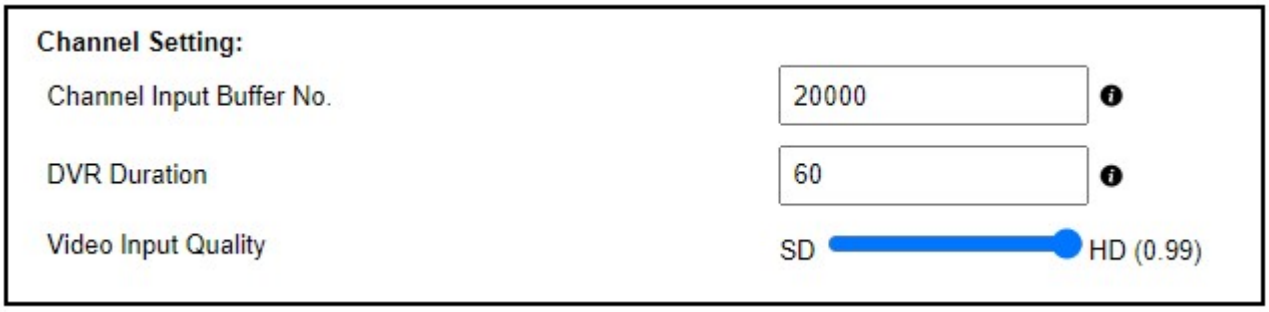
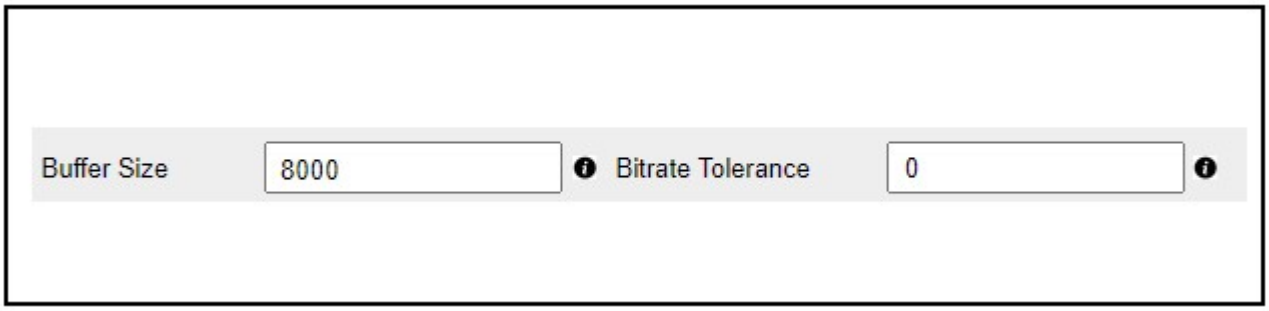


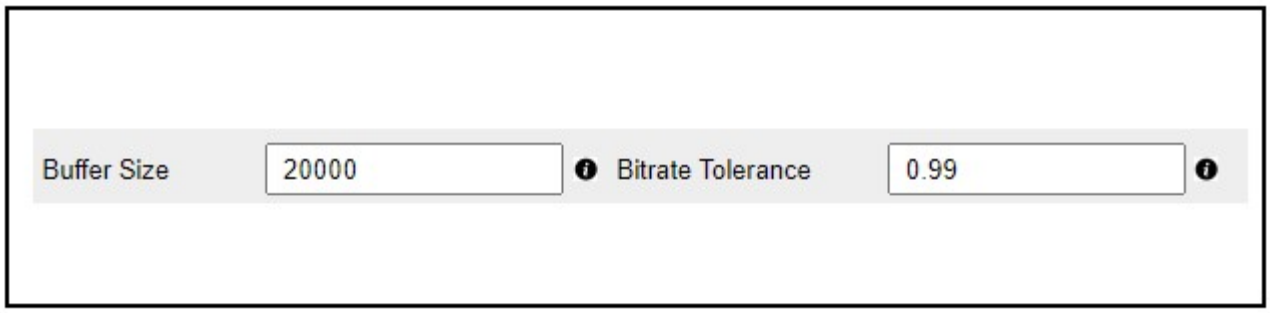
2.2.4 Single SD, HD, FHD channel setting

Click Panel Channel Management: **Edit button** of the channel.

1. **SD channel (~2Mbps)**



2. **HD / FHD channel (above 4Mbps)**



2.2.5 Daily Refresh Channel

- Add channel_refreh=1 in **ezserver_p2p/ezserver_config.txt.**
- Run **./restart.sh** to restart ezserver
- Ezserver will refresh all channels at 00:00 AM per day.

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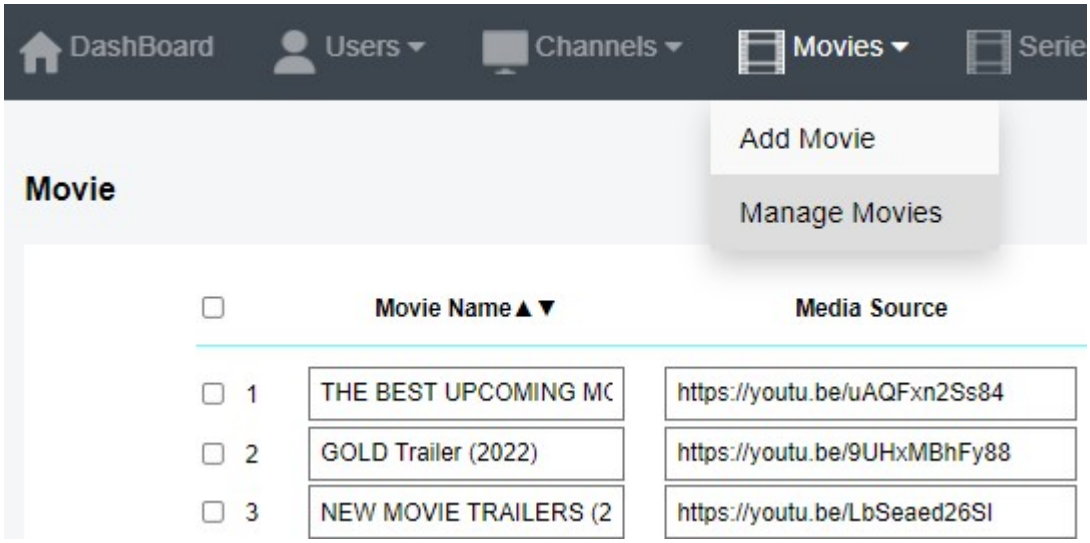
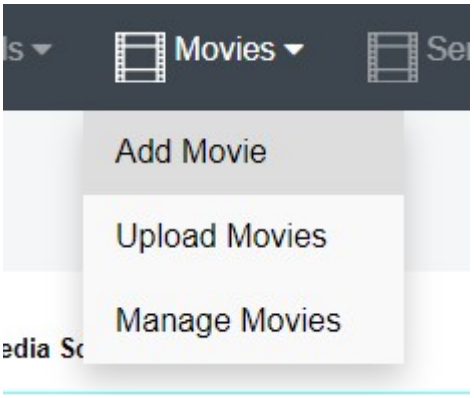
2.3 Movie Management



2.3.1. Add TMDB Movie

This option works only for HTTPS Admin Panel.



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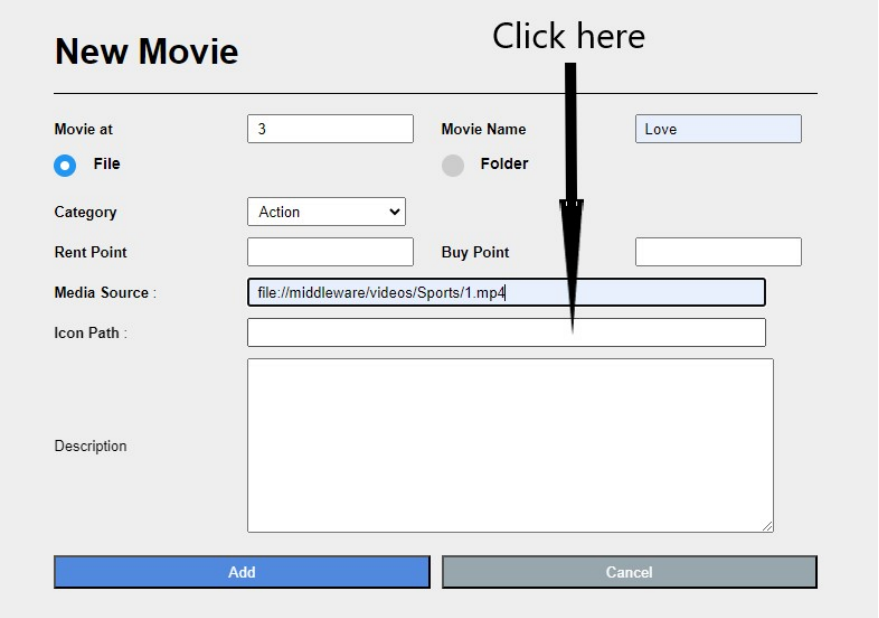

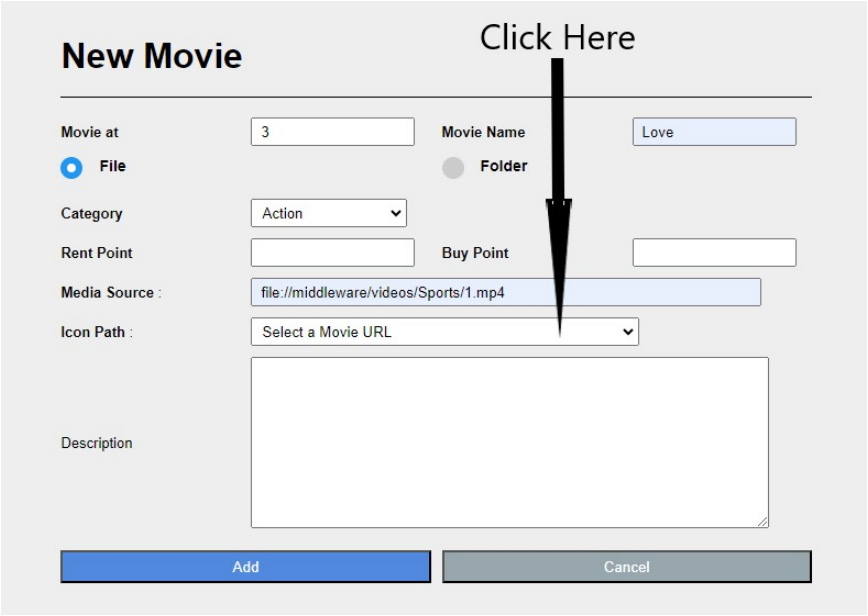

Select one option from the list:

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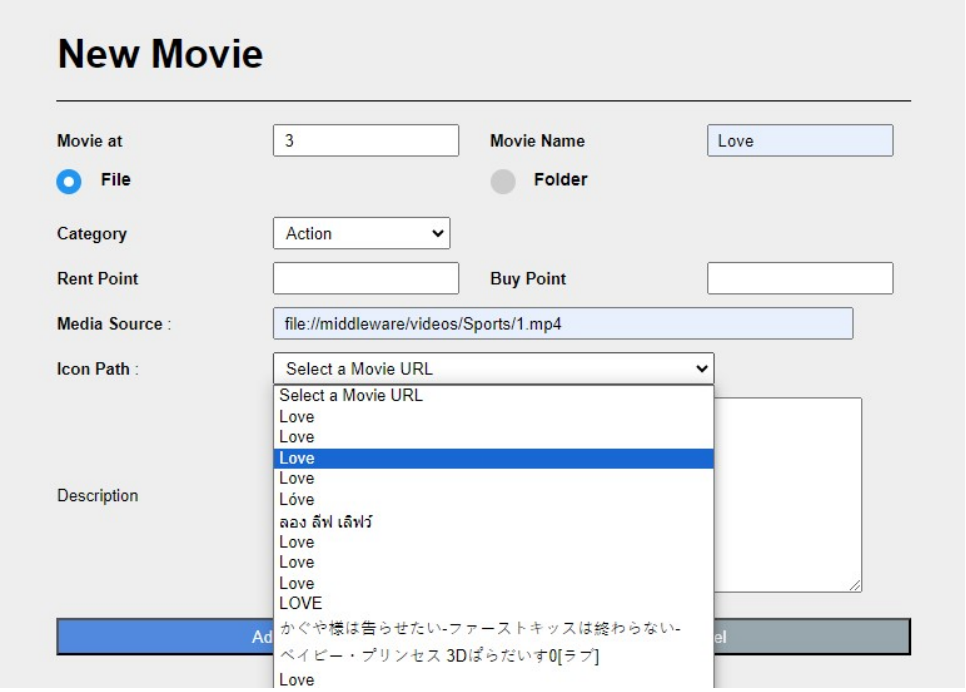

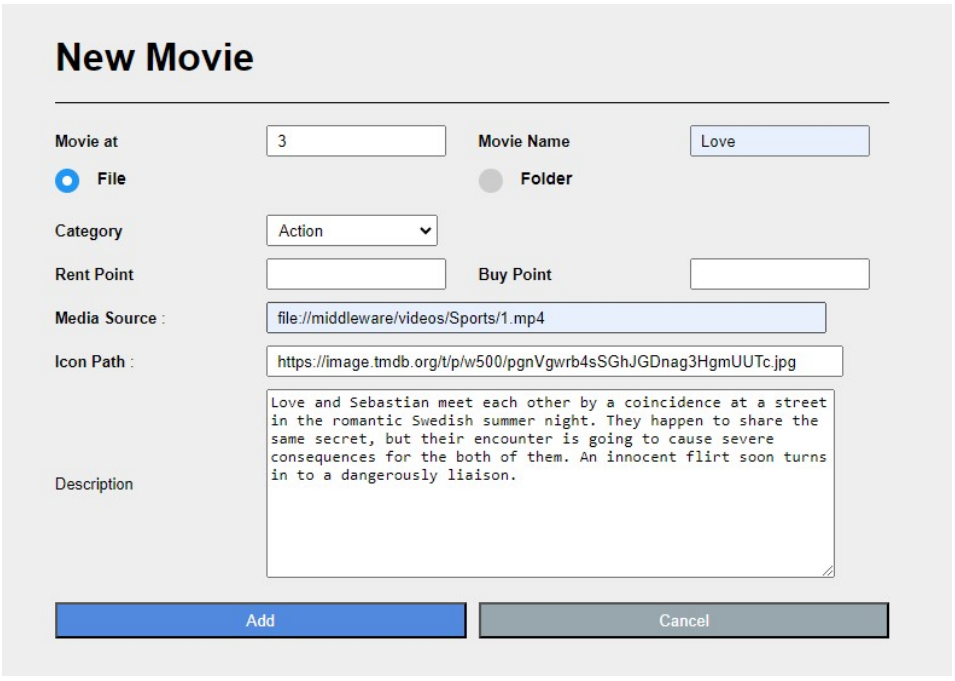

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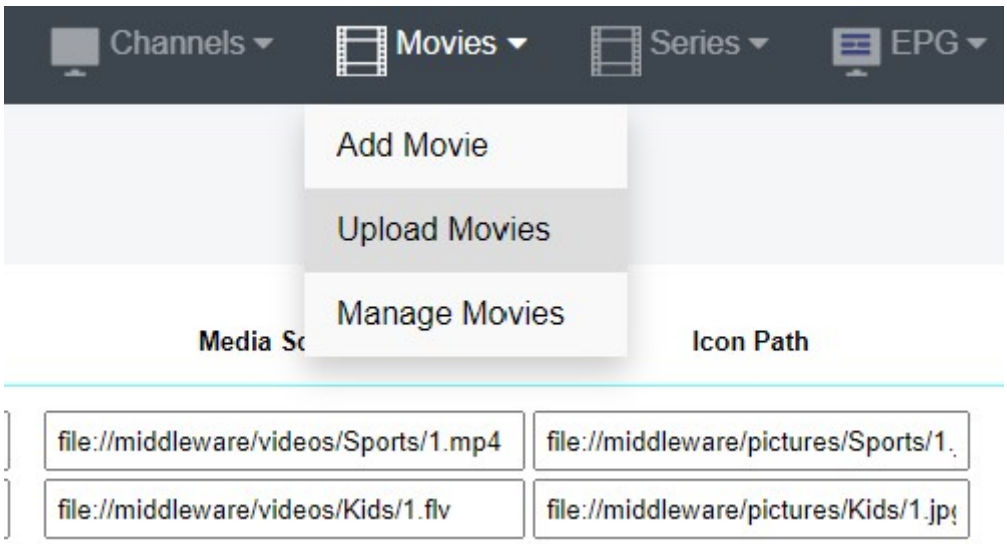
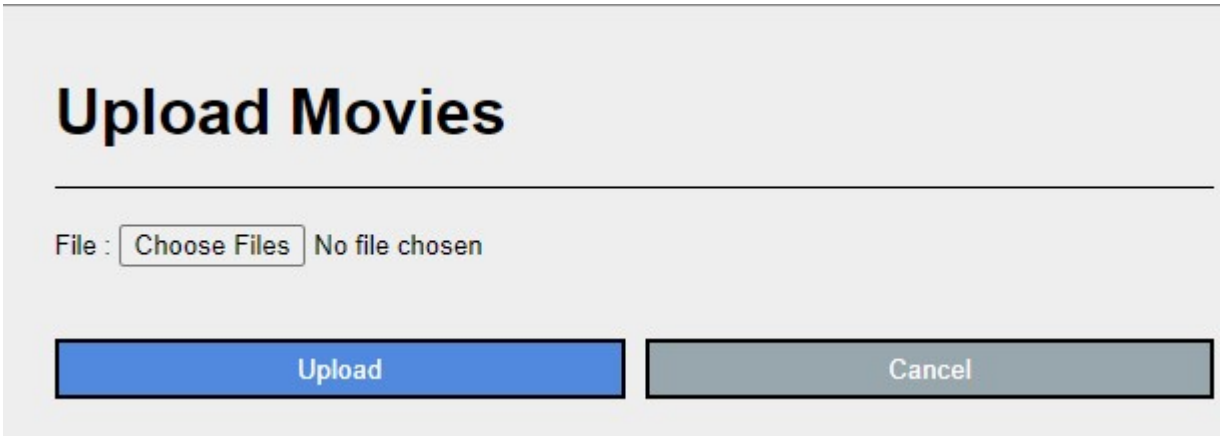
2.3.2. Upload Local movies

1. Click Movies:Upload Movies



2. Click **Choose Files** to select new.m3u and click **Submit** button.



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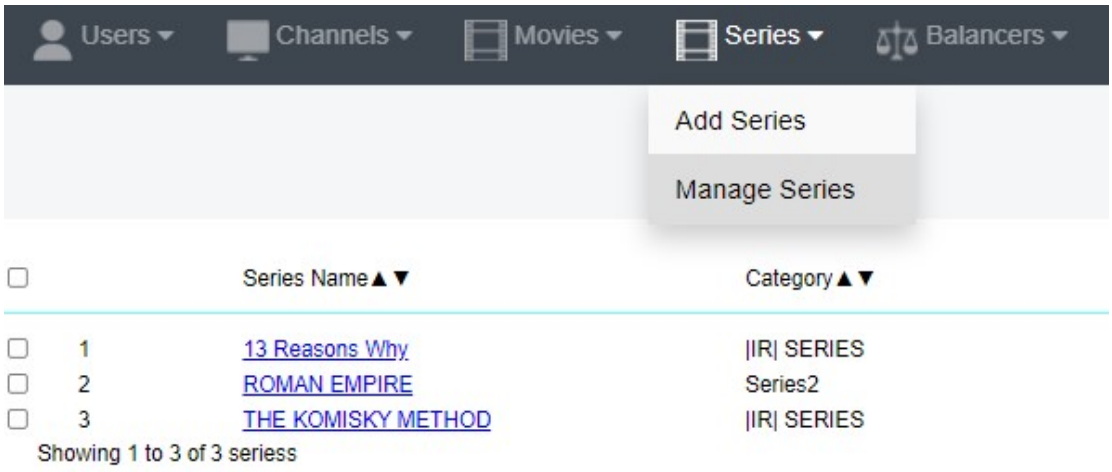
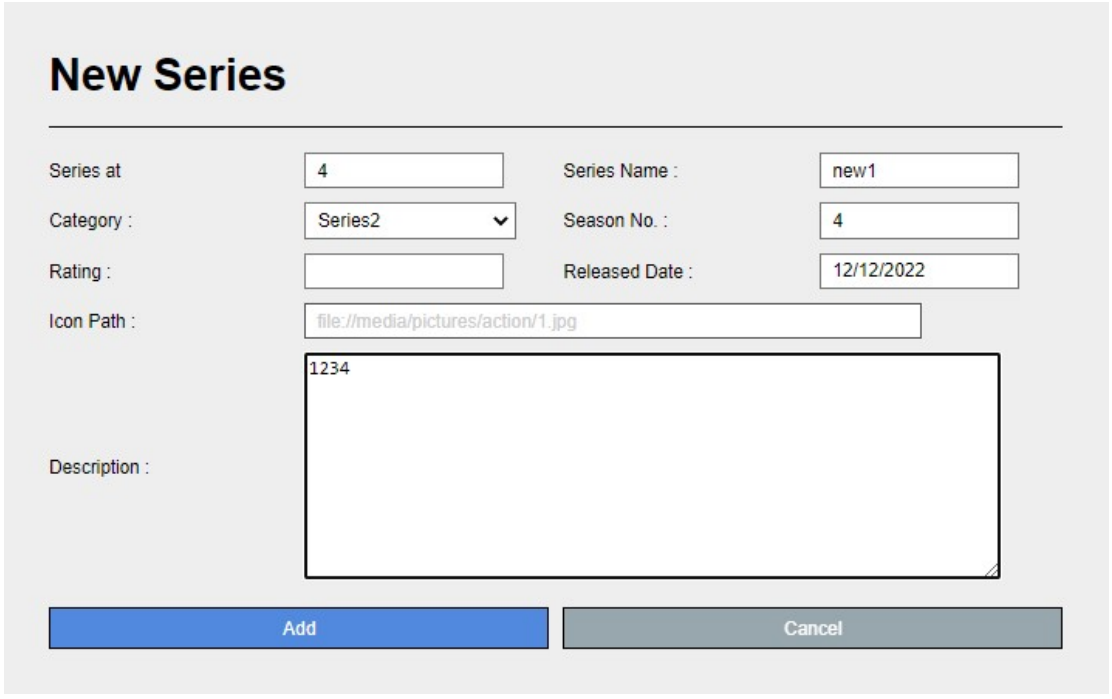
2.4 Series Management





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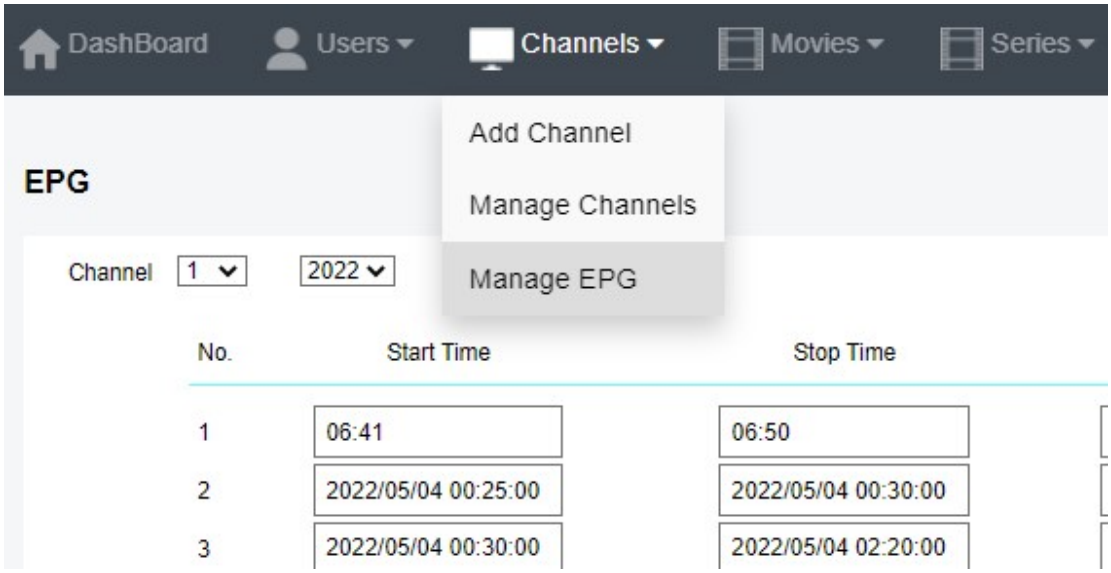
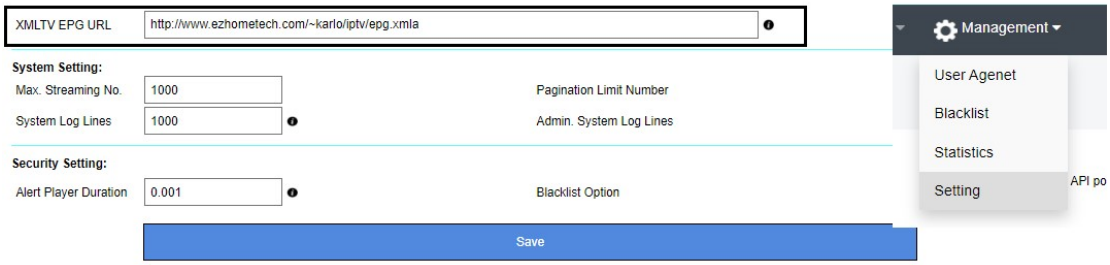
2.5 EPG Management



There are 3 ways to add EPG to Ezserver, one is from XMLTV URL, the other is from UDP Stream, another is manual insertion.

XMLTV URL



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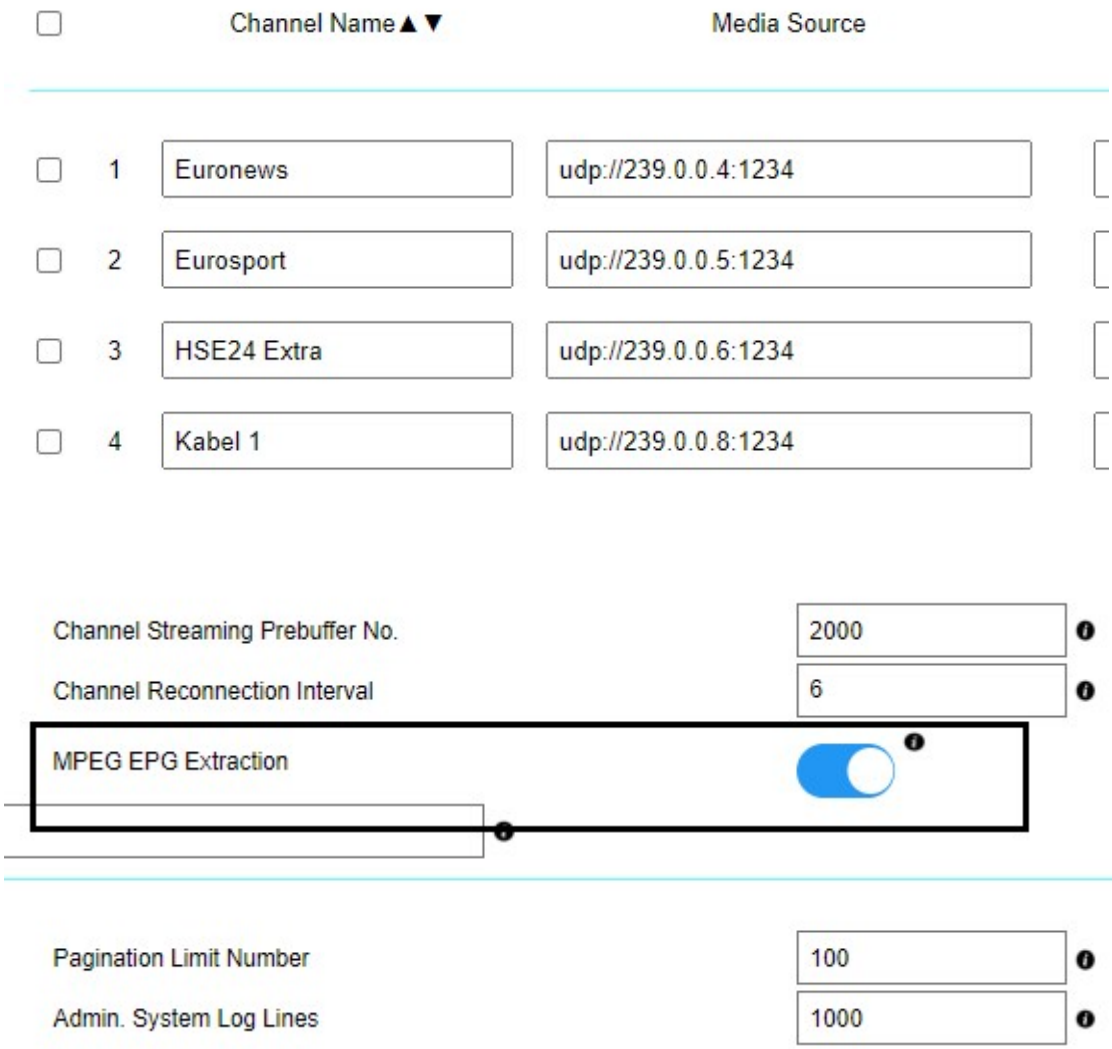
UDP Stream

Add channels by multicast URL as below and enable MPEG EPG Extraction option



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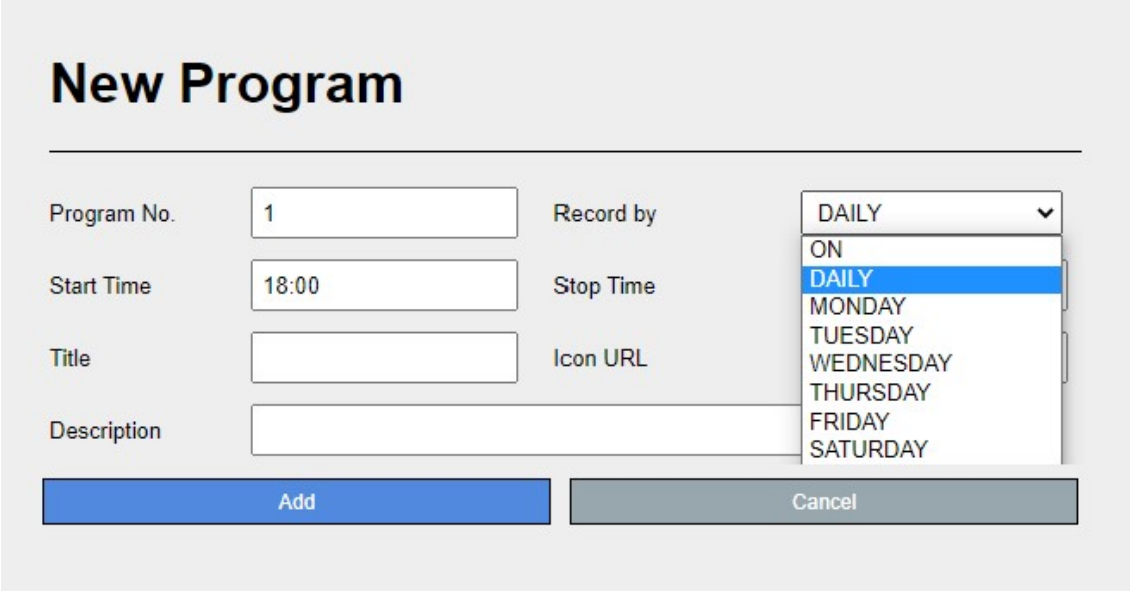
Manual insertion

Select DAILY, MONDAY, or others with Start time, then Ezserver will record video by the option into local storage and insert the video into Movie menu.



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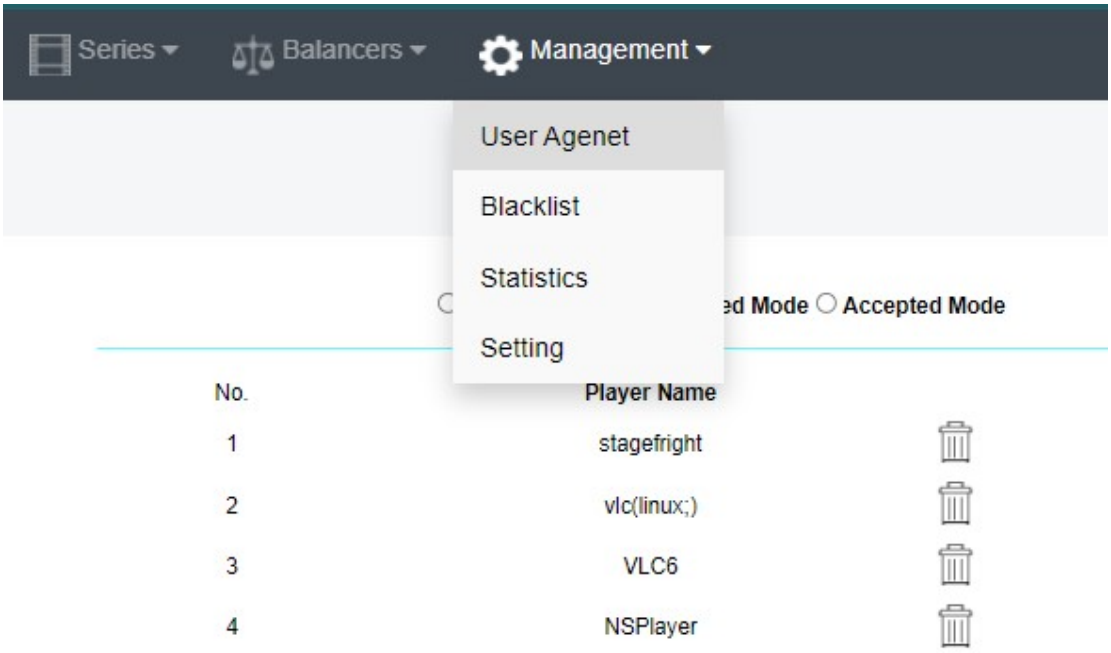
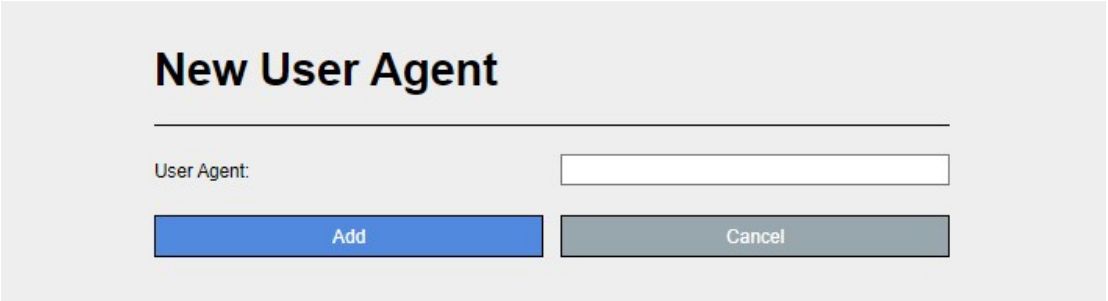
2.6 User Agent Management





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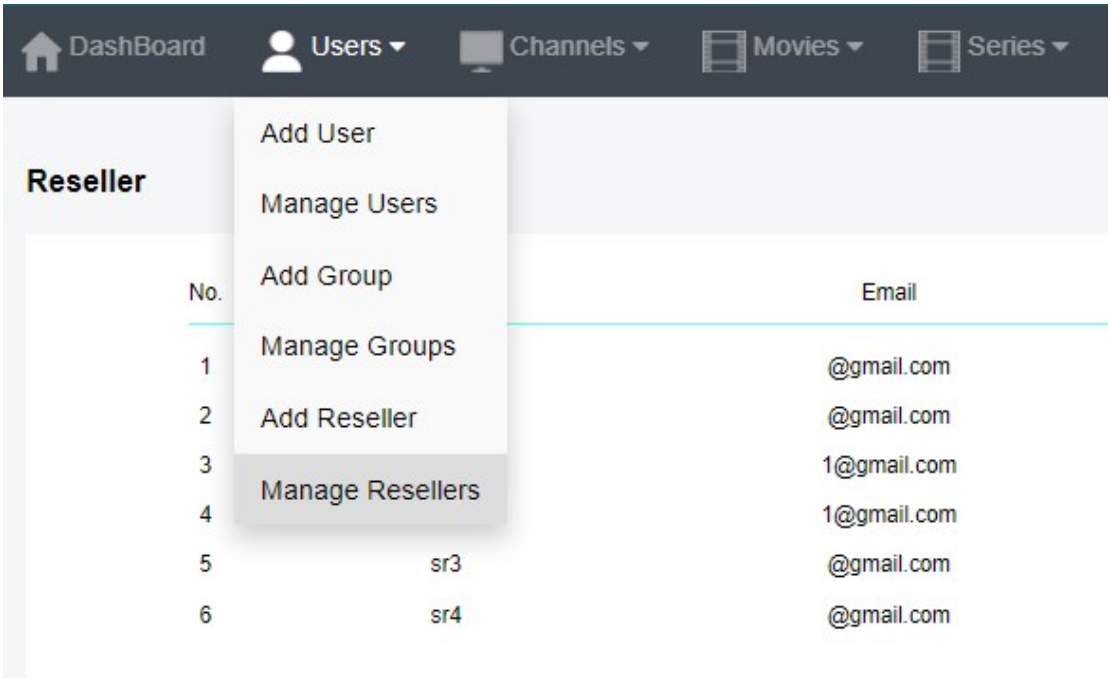
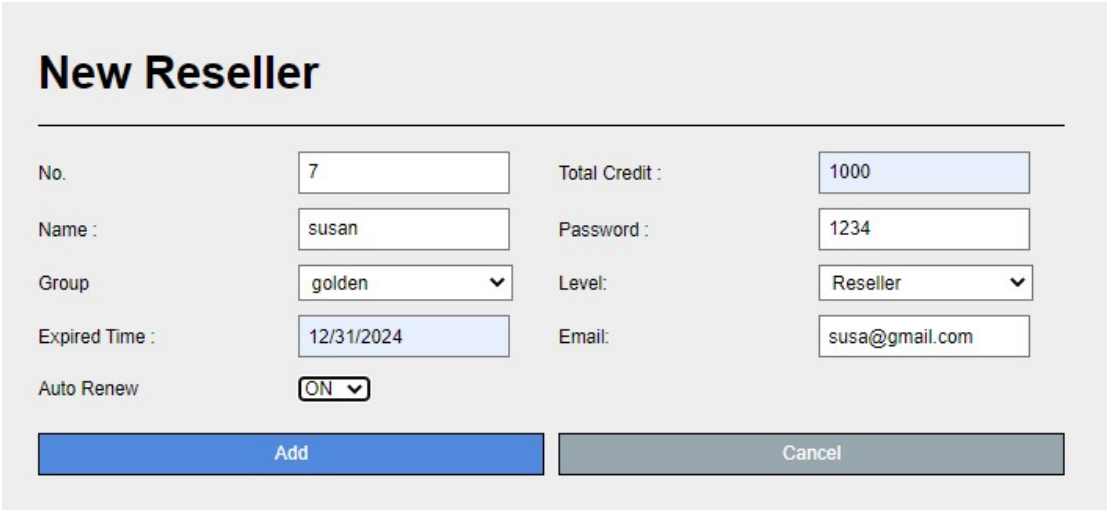
2.7 Reseller Management





Auto Renew: When a user associated with a reseller account expires, the ezserver system automatically adjusts the reseller's credit by deducting an amount equivalent to the expired user's subscription cost.

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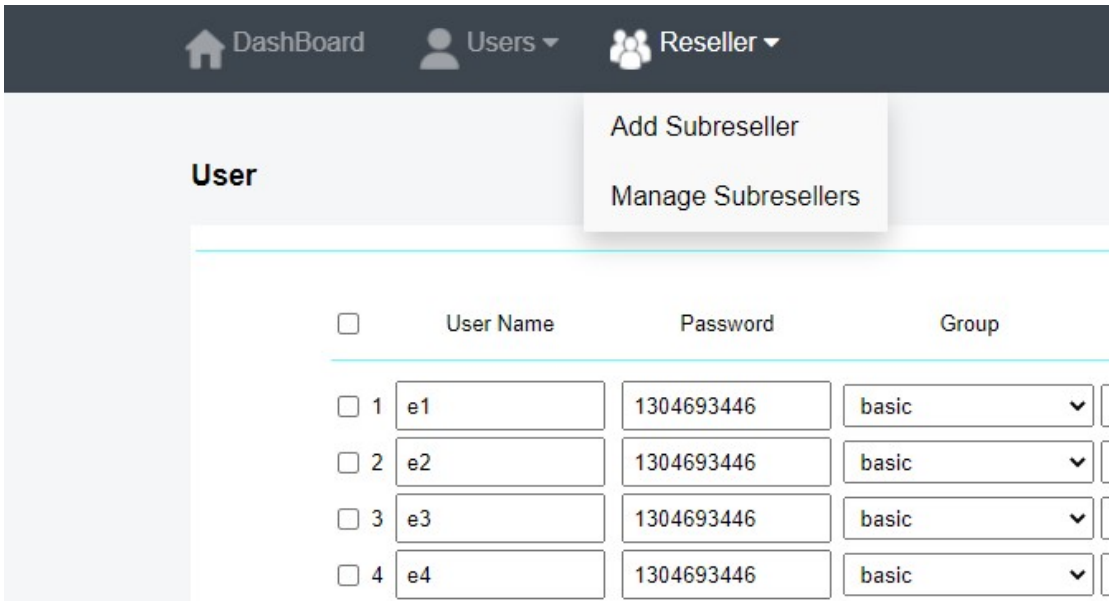
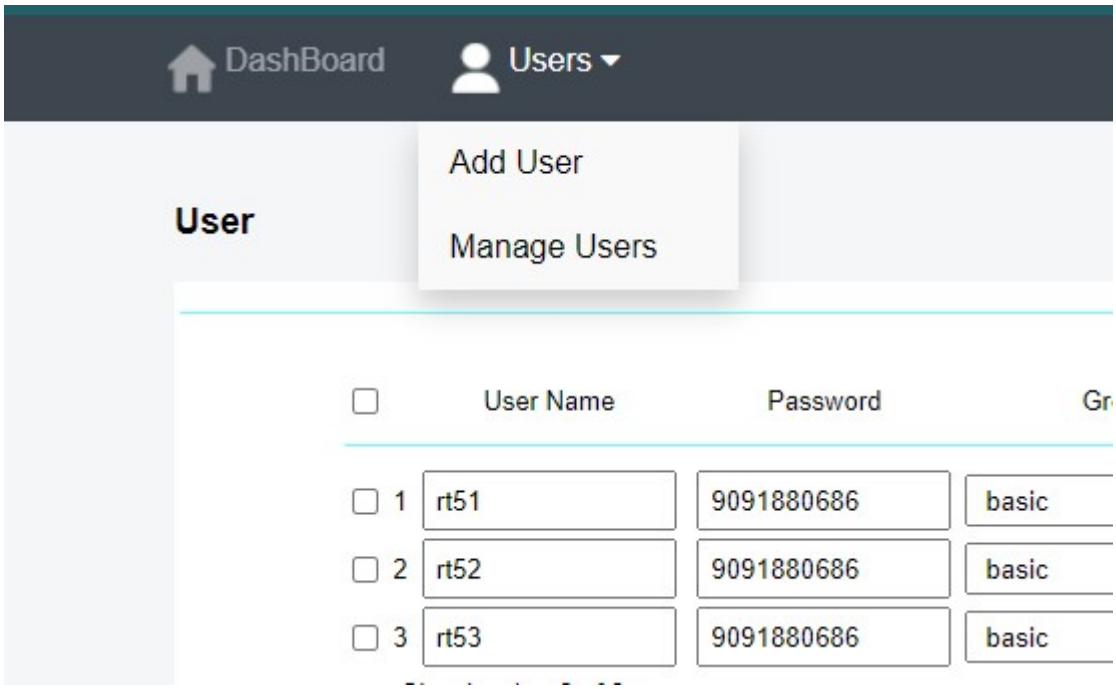
3 Reseller Panel

Input URL: **http://domain:port/reseller/index.htm** in Chrome

- **Super reseller** can create, modify and delete Resellers and users



- **Reseller** can create, modify and delete users only.



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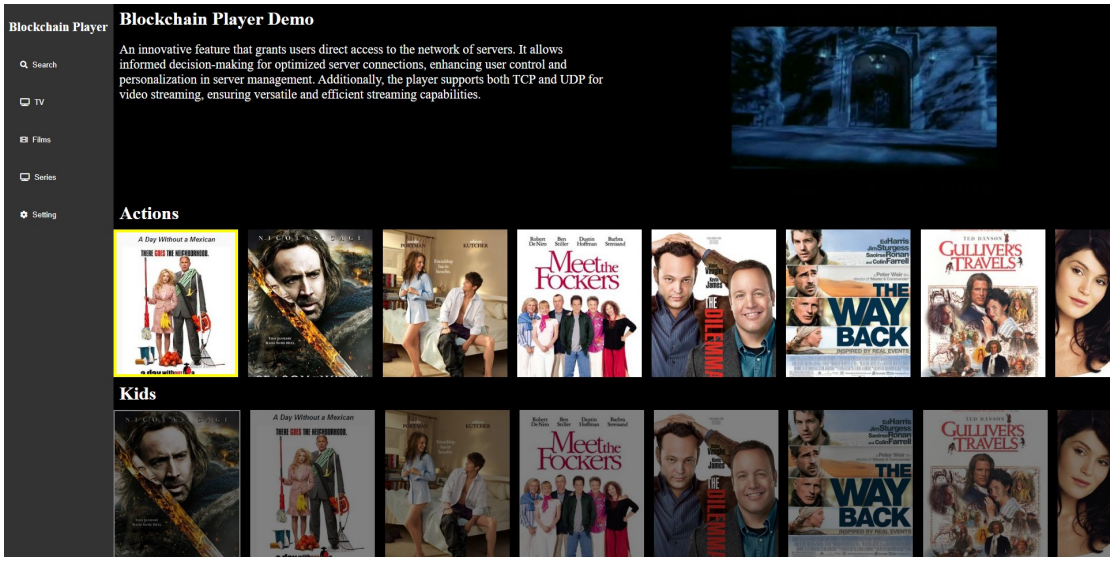
4 Middleware

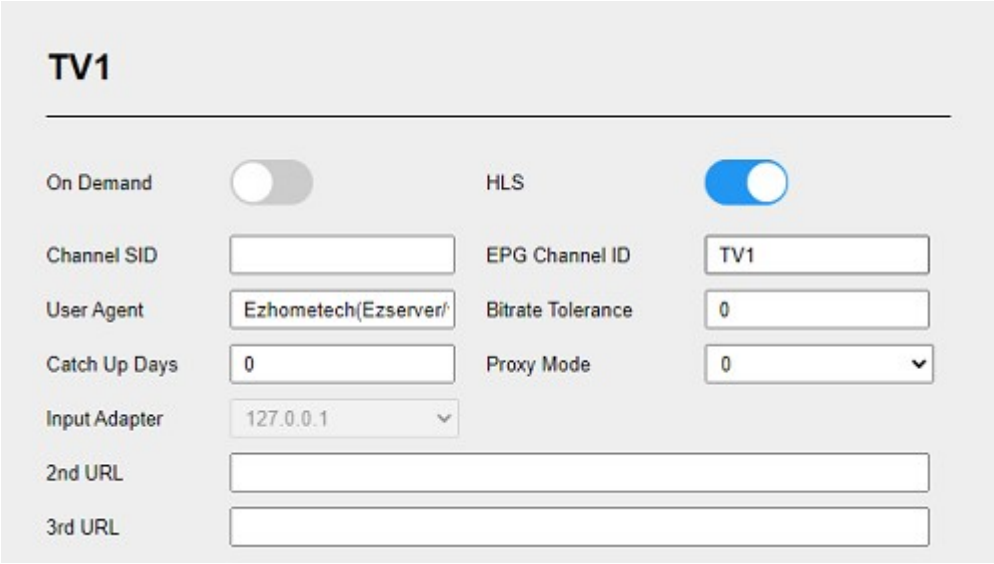
Ezserver middleware platform grants users access to live TV channels, on-demand video content, and additional features like electronic program guides. Our platform is designed to seamlessly support various protocols and technologies, including HLS, HTTP, and HTTPS, ensuring smooth content streaming across a wide array of devices and platforms. Currently compatible with Google Chrome, Microsoft Edge, Apple Safari, FireFox, Android STB / Smarter TV and LG Smarter TV, it offers a flexible and user-friendly experience for diverse viewing preferences.

Main Menu



For Android STB, Smarter TV, and LG Smarter TV, users are required to install the Ezserver Player on these devices to access the full range of features and enjoy seamless IPTV streaming.

Note: For Internet Browser use: **Need to enable Channel HLS option**



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5 Multiple Servers Setting

The P2P network consists of 2 pivotal nodes, each playing a crucial role in ensuring a robust and secure ecosystem for content delivery. These nodes are **User Server**, **Content Server**,

- **User Server** : management user information, *it can also have content*.
- **Content Server** : It can be for channel or movie streaming.
- **User Main Server:** *Acts Main node*
  - ✧ Enable Main / Slave Node option
  - ✧ Define Control port

- **User Backup Server**: *Acts Slave Server*
  - ✧ Disable Main / Slave Node option
  - ✧ Input User Node Domain Name
  - ✧ Input User Node Control port

- **Domain Name Setting**: *For the reliability of your service*
  - ✧ Add all IPs of User Main Server and Backup Servers into Domain Name Setting of your DNS register site.

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- **Content Server**
  - ✧ **Delete all users except root**
  - ✧ Disable Main / Slave Node option
  - ✧ Input User Node Domain Name
  - ✧ Input User Node Control port

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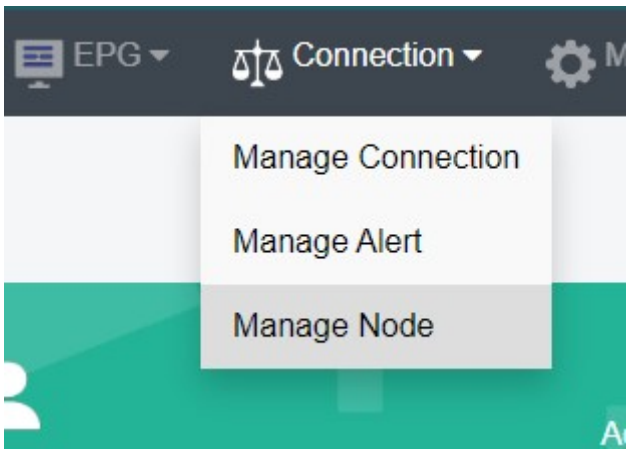
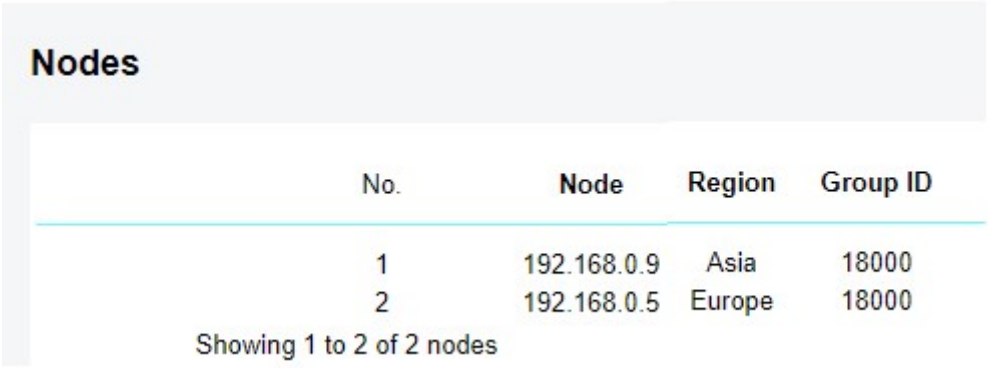
6 Work Folder

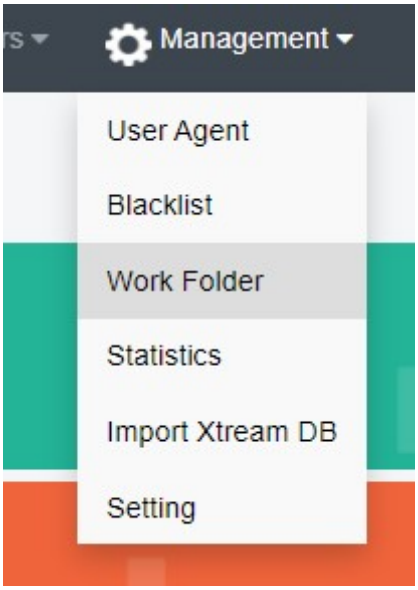
Assign movie and series folder path of Content Nodes in Main server Panel.

- Check Content Nodes in main server first





- Create Work Folder of Content Nodes in main server



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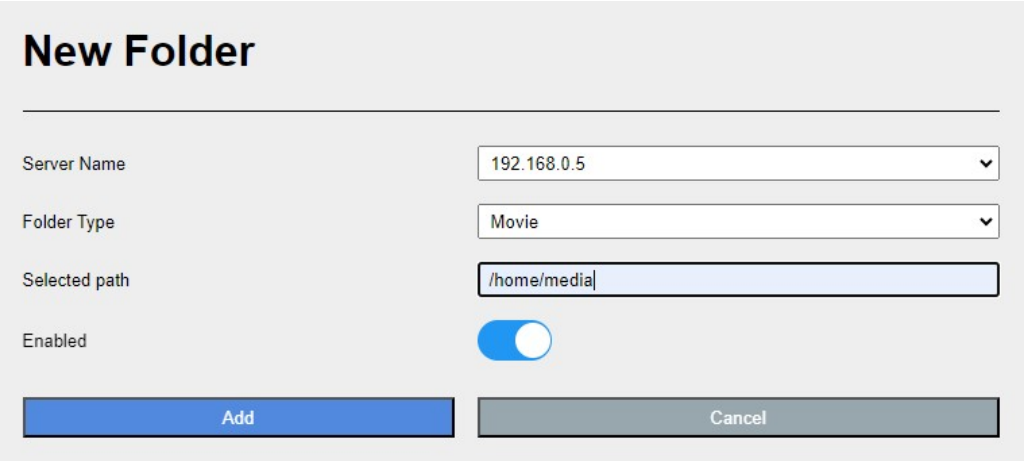
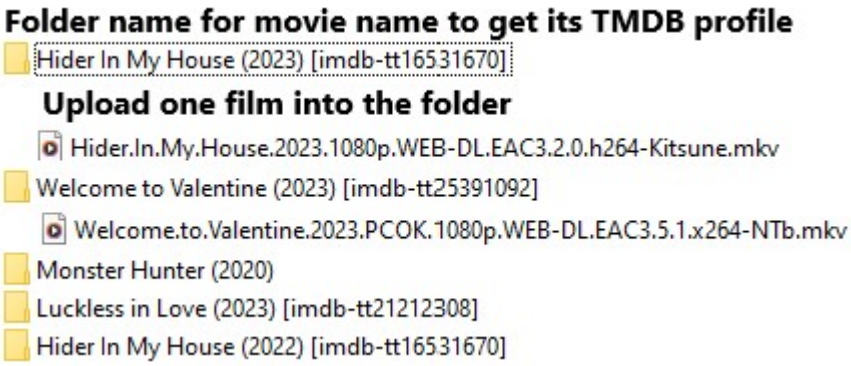
Create Movie Folder



- Add new folder (/home/media) in Content Node
- Upload mp4 files into /home/media as below syntax



- System automatically refreshes hourly movie work folder

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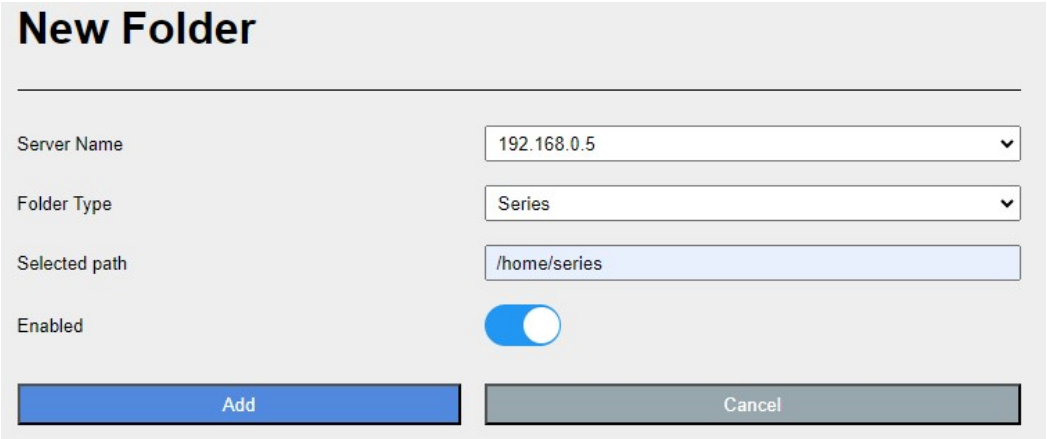
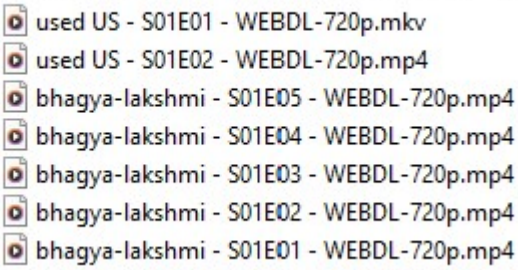
Create Series Folder



- Add new folder (/home/series) in Content Node
- Upload mp4 files into /home/series as below syntax

Filename syntax: Series name - episodes name - xxx.mp4



- ezserver automatically refreshes hourly series work folder

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