



# Ezserver v7.0 Tutorial

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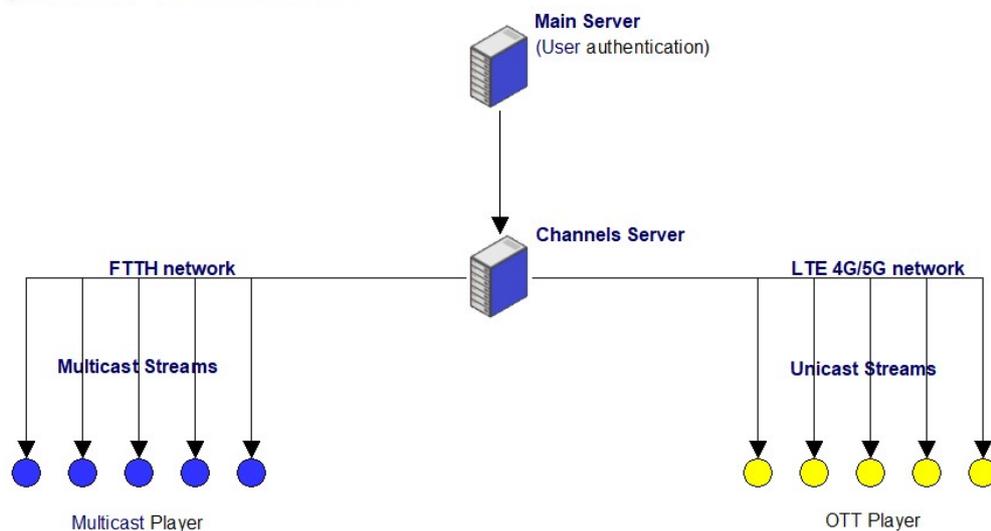


## 1 Ezserver

Ezserver is a Hybrid IPTV platform that enables you to provide channels by Multicast SPTS/MPTS Streams over FTTH and Unicast over LTE 4G/5G. It efficiently handles both multicast and unicast streams, delivering them as Single Program Transport Streams (SPTS) or Multiple Program Transport Streams (MPTS) to players across the network via multicast distribution. With built-in support for user authentication and channel encryption.

1. **Ezserver** : Act Unicast / Multicast video server
2. **Multicast Player**: Multicast encryption player.
3. **OTT player**: Unicast player

### *Hybrid IPTV Service*



#### **Requirement:**

Minimum Server Requirement:

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

#### **Related Information:**

Ezserver Official website:

<http://www.ezhometech.com/>

Ezserver User Guide:

[http://www.ezhometech.com/html/ezserver\\_user\\_guide.html](http://www.ezhometech.com/html/ezserver_user_guide.html)



## 1.1 Installation and License activation

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

```
Thanks your Ezserver v7.0 subscription, please refer the below:

Watch Installation Video

Support Linux : Ubuntu 20.04 LTS (Recommended), Ubuntu, Debian, CentOS:

Login SSH

1 sudo -i
2 cd /home && wget -O install.sh http://www.ezhometech.com/download/ezserver/install.sh && chmod 777 install.sh
3 ./install.sh
4 Installation password: contact sales@ezhometech.com
5 Press Enter to use the default value. The Panel Port and the Streaming Port must be different.

After installation finished

1 Login Panel to copy serial number
2 Send serial number to sales@ezhometech.com
3 Wait for license activation

Start Ezserver

1 cd /home/ezserver_enterprise
2 ./start.sh
```

### Linux:

- Download install.sh from the checkout web page.
- ./install.sh with installation password
- Email us the ezserver\_enterprise/serial\_number.txt (size: 74bytes) to active Ezserver license.

## 1.2 Start / Restart / Shutdown

**Linux Version:** ezserver at /home/ezserver\_enterprise folder

- Start:
  - sudo -i
  - cd /home/ezserver\_enterprise
  - ./start.sh
- Restart:
  - sudo -i
  - cd /home/ezserver\_enterprise
  - ./restart.sh
  - or Login Panel and Click the below button



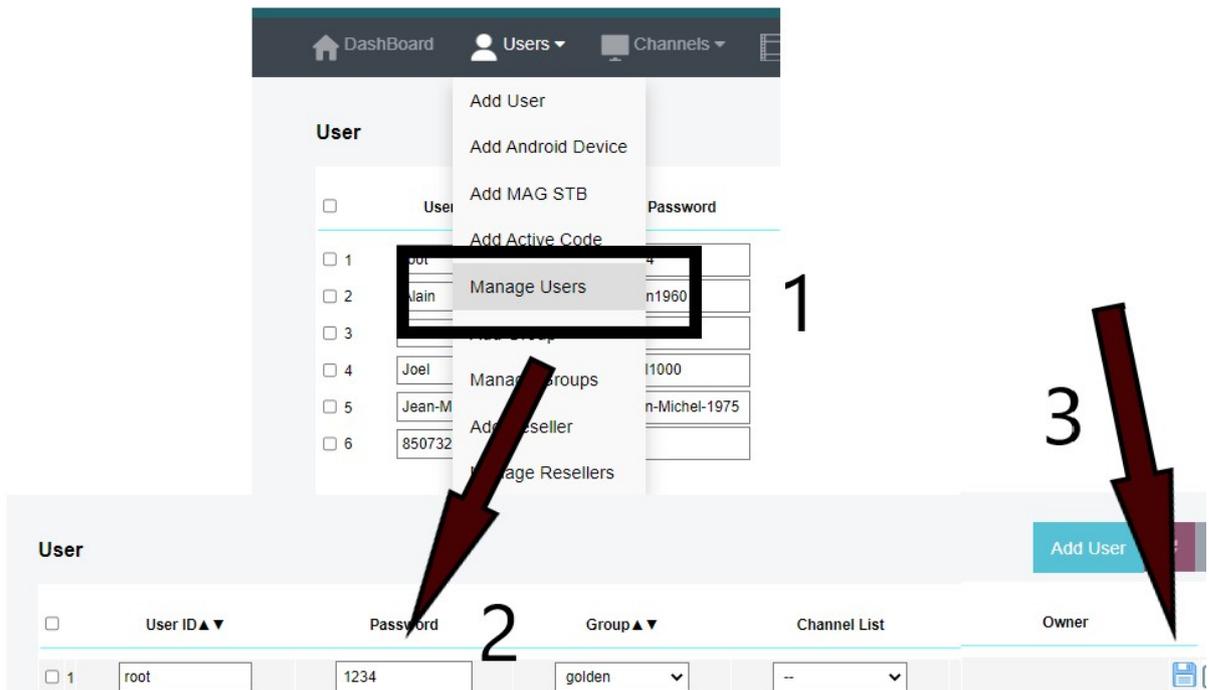
wait 30~60 seconds to relogin panel.

- Shutdown:



- `sudo -i`
- `cd /home/ezserver_enterprise`
- `./shutdown.sh`

### 1.3 Admin Password



### 1.4 Software Update

- `sudo -i`
- `cd ezserver_enterprise`
- `./patch.sh`
- `input password`
- `./restart.sh`

### 1.5 User Authorization for Streaming URL

- **Enable `user_authorization` in `ezserver_enterprise/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



## 2. Admin Panel

---

### HTTP Protocol:

Admin Panel Input URL: [http://domain:panel\\_port](http://domain:panel_port)

Ex. <http://192.168.0.9:18000/>

Reseller Panel URL: [http://domain:API\\_port/reseller/index.htm](http://domain:API_port/reseller/index.htm)

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

### Setting

<b>HTTPS Setting</b>			
Panel port	<input type="text" value="18443"/>	API port	<input type="text" value="17443"/>
Streaming port	<input type="text" value="443"/>		
<b>HTTP Setting</b>			
Panel port	<input type="text" value="18000"/>	API port	<input type="text" value="17000"/>
Streaming port	<input type="text" value="8000"/>		

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

Admin Panel Input URL: [http://domain:https\\_panel\\_port](http://domain:https_panel_port)

Ex. <http://192.168.0.9:18443/>

Reseller Panel URL: [http://domain:https\\_API\\_port/reseller/index.htm](http://domain:https_API_port/reseller/index.htm)

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

### Setting

<b>HTTPS Setting</b>			
Panel port	<input type="text" value="18443"/>	API port	<input type="text" value="17443"/>
Streaming port	<input type="text" value="443"/>		
<b>HTTP Setting</b>			
Panel port	<input type="text" value="18000"/>	API port	<input type="text" value="17000"/>
Streaming port	<input type="text" value="8000"/>		



## 2.1 User Management

Dashboard Users Resellers Bouquets

User

- Add User
- Add Android Device
- Add MAG STB
- Add Active Code
- Manage Users

<input type="checkbox"/>	User	Password	Bouquet ▲▼
<input type="checkbox"/>	1 root		basic ▼
<input type="checkbox"/>	2 trst		basic ▼
<input type="checkbox"/>	3 Halomedia	\$6\$rounds=20000\$	basic ▼
<input type="checkbox"/>	4 Nooby	Expand1233!	basic ▼

### New User

User at	<input type="text" value="83"/>	User Name	<input type="text" value="0328001_001"/>
Password	<input type="text" value="8444836476"/>	Rating Password	<input type="text" value="8444836476"/>
Bouquet	<input type="text" value="basic"/>	Level	<input type="text" value="User"/>
Expired Time	<input type="text" value="1 month"/>	Connection Limit	<input type="text" value="1"/>
IP	<input type="text"/>	MAC ID	<input type="text"/>



Add new user with MAC ID

**New User** MAC ID : 11:22:33:44:55:66  
Input format: **11223445566**

---

User at	<input type="text" value="300"/>	User Name	<input type="text" value="new1"/>
Password	<input type="text" value="4128295961"/>	Rating Password	<input type="text" value="4128295961"/>
Bouquet	<input type="text" value="basic"/>	Level	<input type="text" value="User"/>
Expired Time	<input type="text" value="1 month"/>	Connection Limit	<input type="text" value="1"/>
IP	<input type="text"/>	MAC ID	<input type="text" value="112233445566"/>

Add trial user

**New User** **Trial User**

---

User at	<input type="text" value="300"/>	User Name	<input type="text" value="new1"/>
Password	<input type="text" value="4128295961"/>	Rating Password	<input type="text" value="4128295961"/>
Bouquet	<input type="text" value="basic"/>	Level	<input type="text" value="Trial"/>
Expired Time	<input type="text" value="1 hour"/>	Connection Limit	<input type="text" value="1"/>
IP	<input type="text"/>	MAC ID	<input type="text" value="112233445566"/>



## 2.2 Channel Management

### 2.2.1 Add new category

1. Click Category menu

The screenshot shows a channel management interface. At the top, there is a search bar with a dropdown arrow, a text input field containing '20', and a dropdown arrow. To the right of the search bar is a blue 'Add Channel' button, a purple refresh button, and a dark blue dropdown arrow. Below the search bar is a table with two columns: 'Server' and 'Bitrate(Kbps)'. The table contains three rows of data:

Server	Bitrate(Kbps)
ON (09:58:00)	0
ON (09:58:00)	0
ON (09:58:00)	0

To the right of the table, a context menu is open, listing the following options: 'Category', 'Mass Edit', 'Mass Delete', 'Move to', and 'Multi Refresh'. Each option is accompanied by a small icon.

2. Click Add Button

The screenshot shows a 'Category' dialog box. The title bar contains the word 'Category' and the number '9'. Below the title bar is a list of categories, each with a small icon and a text label: 'News', 'Sports', 'Cartoon', 'Entertainment', 'Science', 'love', 'kids', 'action', and 'Kids'. To the right of the list are three blue buttons: 'Add', 'Edit', and 'Del'. Below these buttons is a hand icon with a double-headed vertical arrow, indicating a drag-and-drop function. At the bottom of the dialog box are two buttons: 'Save' and 'Cancel'.



## 2.2.2 Add new channel

1.

Dashboard Users Channels Movies Series

Channel

- Add Channel
- Manage Channels
- Manage EPG

<input type="checkbox"/>	Channel Name	Media Source
<input type="checkbox"/> 1	RTS 1	dir://media/videos/Movie/
<input type="checkbox"/> 2	TV3	http://bitcdn-kronehit.bitmovin.com/v2/f
<input type="checkbox"/> 3	RTS 2	dir://media/videos/Movie/

2.

### New Channel

Channel at:  Channel Name:

Media Source:

Icon Path:

Category:  Type:

- Live
- Movie
- DVR
- Inactive
- Delay 5 sec.



### 2.2.3 Import channels by m3u link

1. Click Channels: Manage Channels: Import M3U

<input type="checkbox"/>	Channel Name	Media Source
<input type="checkbox"/>	1 RTS 1	dir://media/videos/Movie/
<input type="checkbox"/>	2 TV3	http://bitcdn-kronehit.bitmovin.com/v2/f
<input type="checkbox"/>	3 RTS 2	dir://media/videos/Movie/

2. Click Import M3U

No Filter ▾    20 ▾    Add Channel    ↻    ▾

- Multi Refresh
- Import M3U
- Export as XML
- Transcoder

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

## Import Channels

Channel after:     Options:  ▾

**M3U from HTTP URL or Local File**

HTTP URL:

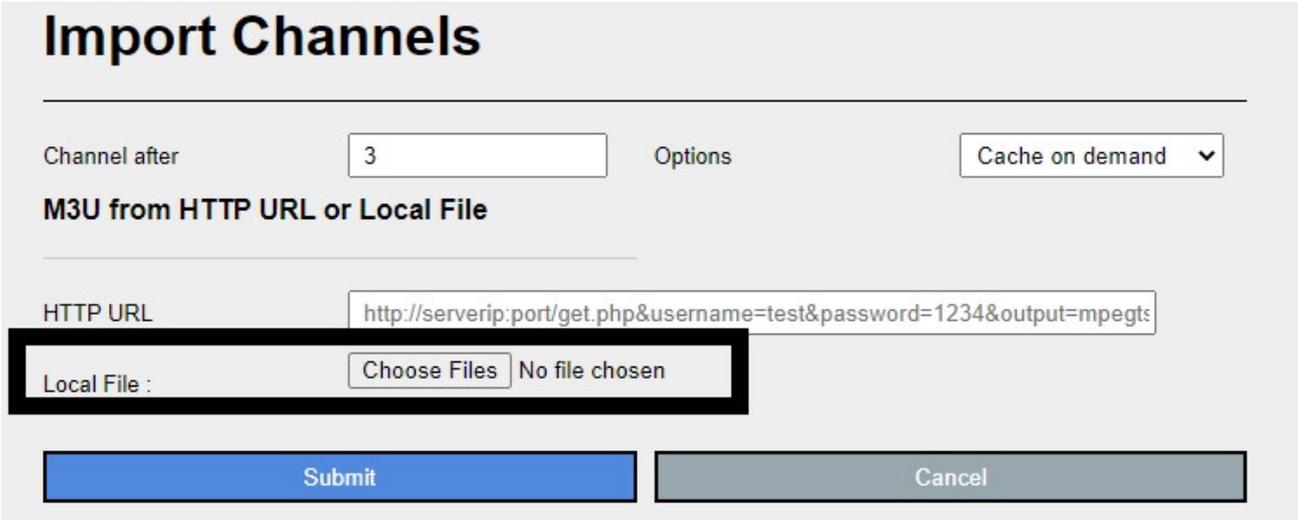
Local File:  No file chosen



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.



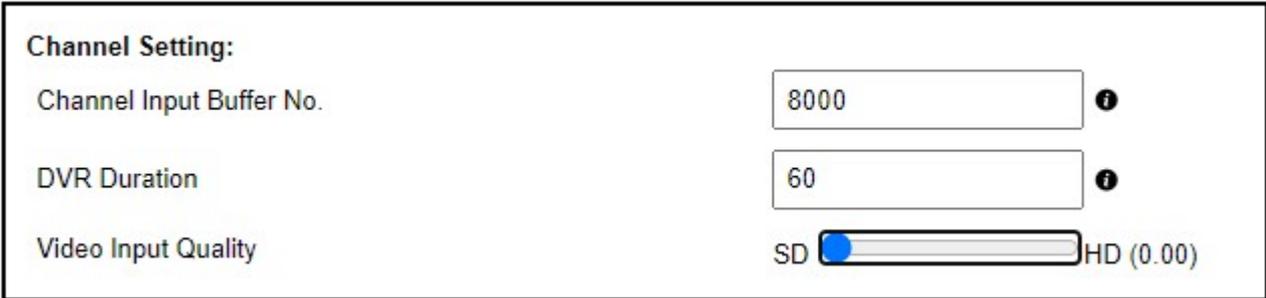
6. if any issue after import by the above way., you can refer the below steps

- Use Chrome to download your m3u link and rename it to **new.m3u**
- Upload **new.m3u** into server `/home/ezserver_enterprise` folder
- Open `/home/ezserver_enterprise/channel_definition.xml`
- Remove all lines **except the 1<sup>st</sup> 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](http://ezserverIP:panel_port/new.m3u)
- Login panel to check it again.

## 2.2.4 All SD, HD, FHD channels setting

Click Panel Setting.

### 甲、SD channel (~2Mbps)



### 乙、HD / FHD channel (above 4Mbps)



<b>Channel Setting:</b>	
Channel Input Buffer No.	<input type="text" value="20000"/> ⓘ
DVR Duration	<input type="text" value="60"/> ⓘ
Video Input Quality	SD <input type="range" value="0.99"/> HD (0.99)

### 2.2.5 Single SD, HD, FHD channel setting

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

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

Buffer Size	<input type="text" value="8000"/> ⓘ	Bitrate Tolerance	<input type="text" value="0"/> ⓘ
-------------	-------------------------------------	-------------------	----------------------------------

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

Buffer Size	<input type="text" value="20000"/> ⓘ	Bitrate Tolerance	<input type="text" value="0.99"/> ⓘ
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### 2.2.6 Daily Refresh Channel

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



## 2.3 Movie Management

<input type="checkbox"/>	Movie Name ▲▼	Media Source
<input type="checkbox"/>	1 THE BEST UPCOMING MC	<a href="https://youtu.be/uAQFxn2Ss84">https://youtu.be/uAQFxn2Ss84</a>
<input type="checkbox"/>	2 GOLD Trailer (2022)	<a href="https://youtu.be/9UHxMBhFy88">https://youtu.be/9UHxMBhFy88</a>
<input type="checkbox"/>	3 NEW MOVIE TRAILERS (2	<a href="https://youtu.be/LbSeaed26SI">https://youtu.be/LbSeaed26SI</a>

### 2.3.1. Add TMDb Movie

This option works only for HTTPS Admin Panel.

- Add Movie
- Upload Movies
- Manage Movies



### New Movie

Click here

Movie at:  Movie Name:

File  Folder

Category:

Rent Point:  Buy Point:

Media Source:

Icon Path:

Description:

### New Movie

Click Here

Movie at:  Movie Name:

File  Folder

Category:

Rent Point:  Buy Point:

Media Source:

Icon Path:

Description:

Select one option from the list:



## New Movie

Movie at:  Movie Name:

File  Folder

Category:

Rent Point:  Buy Point:

Media Source:

Icon Path:

Description:

*Note: The dropdown menu for Icon Path is open, showing a list of movie titles including 'Love', 'Love', 'Love', 'Love', 'Love', 'Love', 'Love', 'Love', 'LOVE', 'かぐや様は告らせたい-ファーストキスは終わらない-', 'ベイビー・プリンセス 3D|ぼらだいす0[ラブ]', and 'Love'.*

## New Movie

Movie at:  Movie Name:

File  Folder

Category:

Rent Point:  Buy Point:

Media Source:

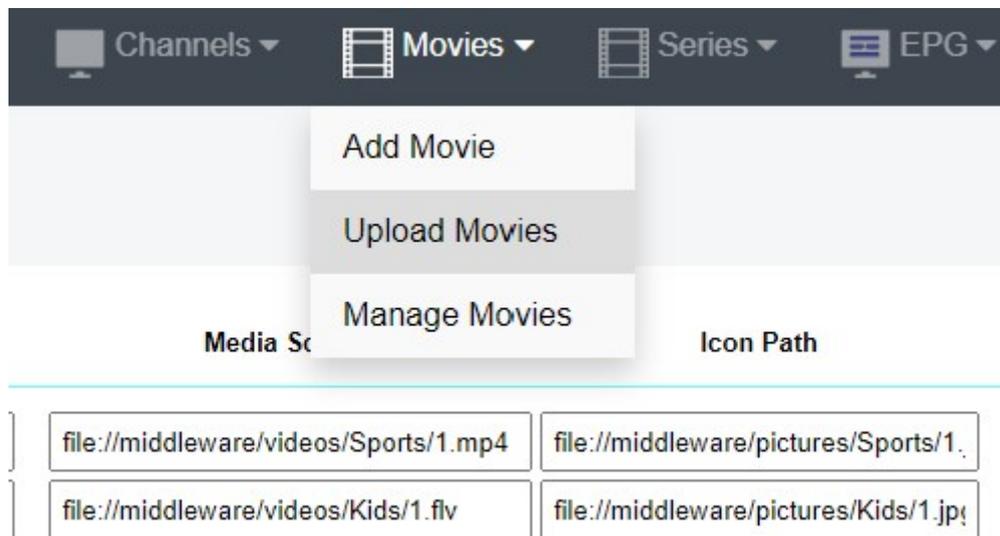
Icon Path:

Description:

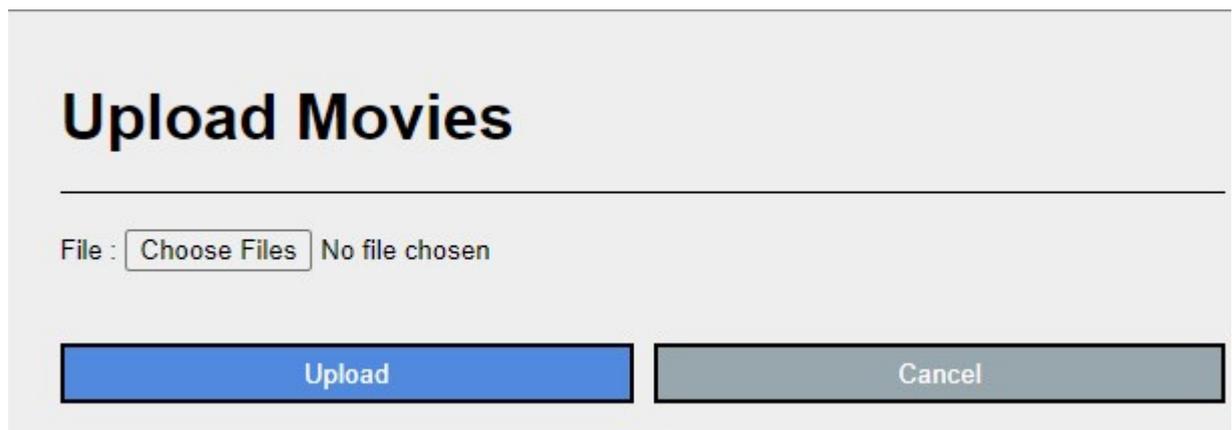


### 2.3.2. Upload Local movies

1. Click Movies:Upload Movies



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





## 2.4 Series Management

Users ▾ Channels ▾ Movies ▾ Series ▾ Balancers ▾

Add Series  
Manage Series

<input type="checkbox"/>	Series Name ▲ ▾	Category ▲ ▾
<input type="checkbox"/>	1 <a href="#">13 Reasons Why</a>	R  SERIES
<input type="checkbox"/>	2 <a href="#">ROMAN EMPIRE</a>	Series2
<input type="checkbox"/>	3 <a href="#">THE KOMISKY METHOD</a>	R  SERIES

Showing 1 to 3 of 3 series

### New Series

Series at:  Series Name:

Category:  Season No.:

Rating:  Released Date:

Icon Path:

Description:



## 2.5 EPG Management

No.	Start Time	Stop Time
1	06:41	06:50
2	2022/05/04 00:25:00	2022/05/04 00:30:00
3	2022/05/04 00:30:00	2022/05/04 02:20:00

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

XMLTV EPG URL:

**System Setting:**  
Max. Streaming No.       Pagination Limit Number  
System Log Lines       Admin. System Log Lines

**Security Setting:**  
Alert Player Duration       Blacklist Option

Management  
User Agent  
Blacklist  
Statistics  
Setting



## UDP Stream

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

<input type="checkbox"/>	Channel Name ▲▼	Media Source	
<input type="checkbox"/>	1 Euronews	udp://239.0.0.4:1234	[
<input type="checkbox"/>	2 Eurosport	udp://239.0.0.5:1234	[
<input type="checkbox"/>	3 HSE24 Extra	udp://239.0.0.6:1234	[
<input type="checkbox"/>	4 Kabel 1	udp://239.0.0.8:1234	[

Channel Streaming Prebuffer No.	<input type="text" value="2000"/>	
Channel Reconnection Interval	<input type="text" value="6"/>	
MPEG EPG Extraction	<input checked="" type="checkbox"/>	

---

Pagination Limit Number	<input type="text" value="100"/>	
Admin. System Log Lines	<input type="text" value="1000"/>	



### 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.

## New Program

---

Program No.	<input type="text" value="1"/>	Record by	<input type="text" value="DAILY"/>
Start Time	<input type="text" value="18:00"/>	Stop Time	<input type="text"/>
Title	<input type="text"/>	Icon URL	<input type="text"/>
Description	<input type="text"/>		



## 2.6 User Agent Management

Series ▾ Balancers ▾ Management ▾

User Aget

Blacklist

Statistics

Setting

ed Mode  Accepted Mode

No.	Player Name	
1	stagefright	
2	vlc(linux;)	
3	VLC6	
4	NSPlayer	

### New User Agent

---

User Agent:



## 2.7 Reseller Management

Users ▾ Resellers ▾ Bouquets ▾ Channels ▾ Movies ▾

Add Reseller

Manage Resellers

Name	Email	Credit Balance
reseller1	reseller1@gmail.com	1000
reseller2	reseller2@gmail.com	1000
reseller3	reseller3@gmail.com	1000

### New Reseller

No.  Total Credit :

Name :  Password :

Bouquet  Level:

Expired Time :  Email:

Auto Renew



## 2.8 Load Balancer

Slave Server Name	Admin. Name	Password	Domain Name	IP
BL1	root	1234		192.168.0.7

**New Balancer**

Slaver Name:  Admin. Name:

Password:  Domain:

IP:  Panel port:

Country:

**Balancer Panel port** is **http\_apps\_port** (default: 17000) of balncer ezserver\_config.txt.

SSH test Steps:

1. Login main ssh
2. wget http://bl\_IP: http\_apps\_port/admin/index.htm
3. if above works, you can check balancer status in main panel.
4. **if not work**, login balancer ssh and run the below command to open ports.
  - **iptables -F**
5. Login lb ssh
6. wget http://bl\_IP: http\_apps\_port/admin/index.htm
7. if above works, you can check balancer status in main panel.
8. **if not work**, login balancer ssh and run the below command to open ports.
  - **iptables -F**



### 3 Reseller Panel

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

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

<input type="checkbox"/>	User Name	Password	Group
<input type="checkbox"/> 1	e1	1304693446	basic
<input type="checkbox"/> 2	e2	1304693446	basic
<input type="checkbox"/> 3	e3	1304693446	basic
<input type="checkbox"/> 4	e4	1304693446	basic

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

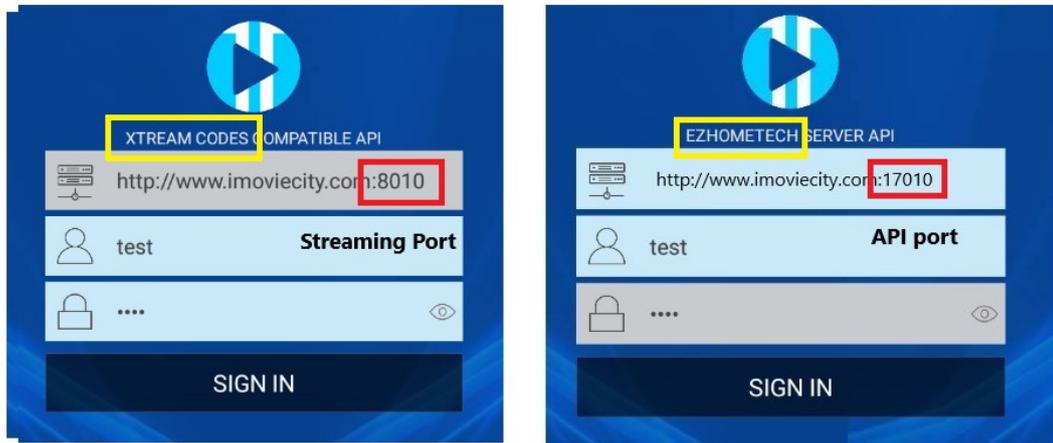
<input type="checkbox"/>	User Name	Password	Gr
<input type="checkbox"/> 1	rt51	9091880686	basic
<input type="checkbox"/> 2	rt52	9091880686	basic
<input type="checkbox"/> 3	rt53	9091880686	basic



## 4 Supported Players

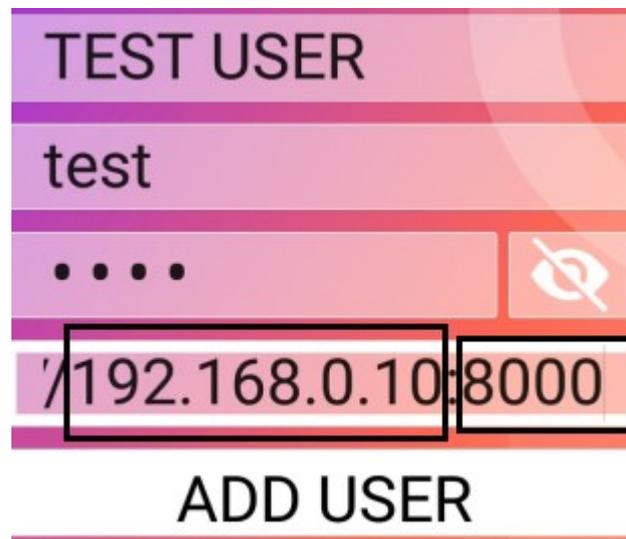
### **XCIPTV**

- Select Xstream codes or Ezhometech API



### **IPTV Smater**

uses ezserver streaming port (8000) instead of API port (17000)





## Mag STB

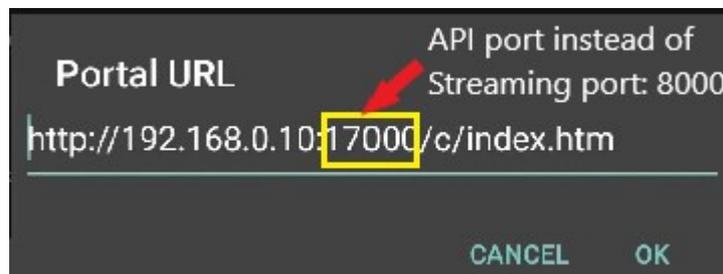
Use Ezserver API port (17000)

- Add Mag MAC ID into Ezserver IPTV Panel

### New Mag STB

User at	<input type="text" value="83"/>	MAC Address	<input type="text" value="00:1A:A1:24:C8:C9"/>
Password	<input type="text"/>	Rating Password	<input type="text" value="2621104394"/>
Bouquet	<input type="text" value="basic"/>	Level	<input type="text" value="User"/>
Expired Time	<input type="text" value="1 month"/>	Connection Limit	<input type="text" value="1"/>
IP	<input type="text"/>	Device Type	<input type="text" value="mag"/>

- Portal URL is <http://domain:17000/c/index.htm>





## HTML5 Player

- Add Access-Control-Allow-Origin=\* into ezserver\_config.txt
- Enable Channel HLS option

### TV1

---

On Demand	<input type="checkbox"/>	HLS	<input checked="" type="checkbox"/>
Channel SID	<input type="text"/>	EPG Channel ID	<input type="text" value="TV1"/>
User Agent	<input type="text" value="Ezhometech(Ezserver)"/>	Bitrate Tolerance	<input type="text" value="0"/>
Catch Up Days	<input type="text" value="0"/>	Proxy Mode	<input type="text" value="0"/>
Input Adapter	<input type="text" value="127.0.0.1"/>		
2nd URL	<input type="text"/>		
3rd URL	<input type="text"/>		

- Refer the below HTML codes

```
<!-- CSS -->
<link href="https://vjs.zencdn.net/7.2.3/video-js.css" rel="stylesheet">
<!-- HTML -->
<video id='hls-example' class="video-js vjs-default-skin" width="400" height="300" controls>
<source type="application/x-mpegURL" src="http://192.168.0.10:8000/TV1.m3u8?u=robert;p=1234">
</video>
<!-- JS code -->
<!-- If you'd like to support IE8 (for Video.js versions prior to v7) -->
<script src="https://vjs.zencdn.net/ie8/ie8-version/videojs-ie8.min.js"></script>
<script
src="https://cdnjs.cloudflare.com/ajax/libs/videojs-contrib-hls/5.14.1/videojs-contrib-hls.js"></script>
<script src="https://vjs.zencdn.net/7.2.3/video.js"></script>
<script>
var player = videojs('hls-example');
player.play();
</script>
```



## 5 M3U / M3U8 URL for Players

---

### 5.1 M3U List API

- Go to User menu
- Select m3u(getlink API)

Group ▲ ▼	Channel List
golden ▼	-- ▼
basic ▼	Enigma
basic ▼	Enigma 1.6
golden ▼	Enigma(RTMP)
golden ▼	Enigma 1.6(RTMP)
golden ▼	Enigma(chno)
golden ▼	Enigma 1.6(chno)
golden ▼	Enigma(RTMP/chno)
golden ▼	Enigma 1.6(RTMP/chno)
basic ▼	m3u
basic ▼	<b>m3u(getlink)</b>
	m3u(net nhn)

Copy the URL to players



## 5.2 M3U8 List API

- Enable Channel HLS option

**TV1**

---

On Demand	<input type="checkbox"/>	HLS	<input checked="" type="checkbox"/>
Channel SID	<input type="text"/>	EPG Channel ID	<input type="text" value="TV1"/>
User Agent	<input type="text" value="Ezhometech(Ezserver)"/>	Bitrate Tolerance	<input type="text" value="0"/>
Catch Up Days	<input type="text" value="0"/>	Proxy Mode	<input type="text" value="0"/>
Input Adapter	<input type="text" value="127.0.0.1"/>		
2nd URL	<input type="text"/>		
3rd URL	<input type="text"/>		

- Go to User menu
- Select m3u8(getlink API)

Channel List	Mo
--	--
m3u(chno with suffix)	--
m3u(chname with suffix)	--
m3u(RTMP)	--
m3u8	--
<b>m3u8(getlink API)</b>	--
m3u8(No Encoded)	--

Copy the URL to players



## **6 PHP Script Integration**

---

Support php script into **ezserver\_enterprise/php** folder. It lets you code php scripts for integration with Ezserver.

- sudo apt update
- sudo apt install php
- test PHP
  - ✧ php -v
- upload .php files into **ezserver\_enterprise/php** folder



## 7 Multicast Setting

Multicast Setting:

- Set Multicast output IP and Port

The screenshot shows the 'Ezserver' interface with a 'Setting' tab selected. A 'Save' button is visible at the top right. Below it, the 'Multicasting Streaming Setting' section contains two input fields: '6. Multicast IP : 225.1.1.1' and '7. Multicast port: 9001'.

Add users:

- Add annie user with max connection value 1.

The screenshot shows the 'New Android Device' form with the following fields and values:

User at	83	MAC Address	Annie
Password		Rating Password	9765114024
Bouquet	basic	Level	User
Expired Time	1 month	Connection Limit	1
IP		Device Type	android

At the bottom, there are two buttons: 'Add' (blue) and 'Cancel' (grey).

Encryption Setting:

- Defined at `hls_multicast_aes` of `ezserver_config.txt`
  - `hls_multicast_aes=0` (No encryption)
  - `hls_multicast_aes=1` (low encryption)
  - `hls_multicast_aes =2` (high encryption)



## 8 EZ2Player

It is a **multicast / unicast encryption player** for android STB devices. That explores services and plays channels, movies and series from Ezserve.

Features:

- **Support Multicast AES Encrypted Channels**
- **Support OTT AES Encrypted Channels**
- **Add Service by Domain URL**
- **TV, Movie and Series**
- **Support YouTube Channel Links**
- **EPG and Catch up TV**
- **Parent Control of adult content**
- **Support TMBD for Movie and Series**
- **Channel Video Format: MPEG2/H264 Transport Stream**
- **Channel Audio Format: MP3/AAC, ADTS Stream**
- **Movie Format: MP4, MKV**

Hardware Requirement:

- **Min. Requirement:** Above 1.0GHz, 1GB RAM, 802.11 a/b/g/n.

Software Requirement:

- Android 5.0+

Categories	Channels	EPG
All 3	CNN CNN	00:35 Vesti RTS
Favorites 0	CBS CBS	00:40 Vratolomna igra (1989)
News 3	BBC WORLD NEWS BBC	02:20 Ono kao ljubav (2009)
Sports 0		03:11 Bili smo prvaci sveta
Travel 0		04:00 Oko mag
Finance 0		04:03 Oko magazin
Comedy 0		04:33 Kvadratura kruga
Religion 0		
Shopping 0		

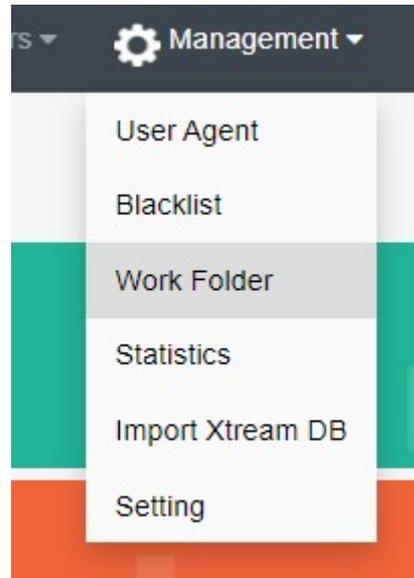


## 9 Work Folder

---

Assign Balancer movie and series folder path in Main server Panel.

- Add balancers in main server first
- Refresh movies and series per hour or manually



### Update Folder

---

Server Name	<input type="text" value="BL1"/>
Folder Type	<input type="text" value="Movie"/>
Selected path	<input type="text" value="media/videos/upload"/>
Enabled	<input checked="" type="checkbox"/>



## Create Movie Folder

### New Folder

---

Server Name

Folder Type

Selected path

Enabled

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

### Folder name for movie name to get its TMDb profile

 Hider In My House (2023) [imdb-tt16531670]

#### Upload one film into the folder

 Hider.In.My.House.2023.1080p.WEB-DL.EAC3.2.0.h264-Kitsune.mkv

 Welcome to Valentine (2023) [imdb-tt25391092]

 Welcome.to.Valentine.2023.PCOK.1080p.WEB-DL.EAC3.5.1.x264-NTb.mkv

 Monster Hunter (2020)

 Luckless in Love (2023) [imdb-tt21212308]

 Hider In My House (2022) [imdb-tt16531670]

- System automatically refreshes hourly movie work folder



## Create Series Folder

### New Folder

---

Server Name

Folder Type

Selected path

Enabled

- Add new folder (/home/series) in Content Node
- Upload mp4 files into /home/series as below syntax
  - Series folder
    - Season folder
      - ✧ filename with SxxExx

```
root@u20:/home/series# ls
'112 Reasons Why' 25 MEATEATER 'ROMAN EMPIRE' 'THE KOMISKY METHOD'
root@u20:/home/series# cd MEATEATER/
root@u20:/home/series/MEATEATER# ls
'Season 01' 'Season 02' 'Season 03'
root@u20:/home/series/MEATEATER# cd Season\ 01
root@u20:/home/series/MEATEATER/Season 01# ls
MEATEATER.S01E01.Pilot.1080p.mp4 MEATEATER.S01E02.Pilot.1080p.mp4
```

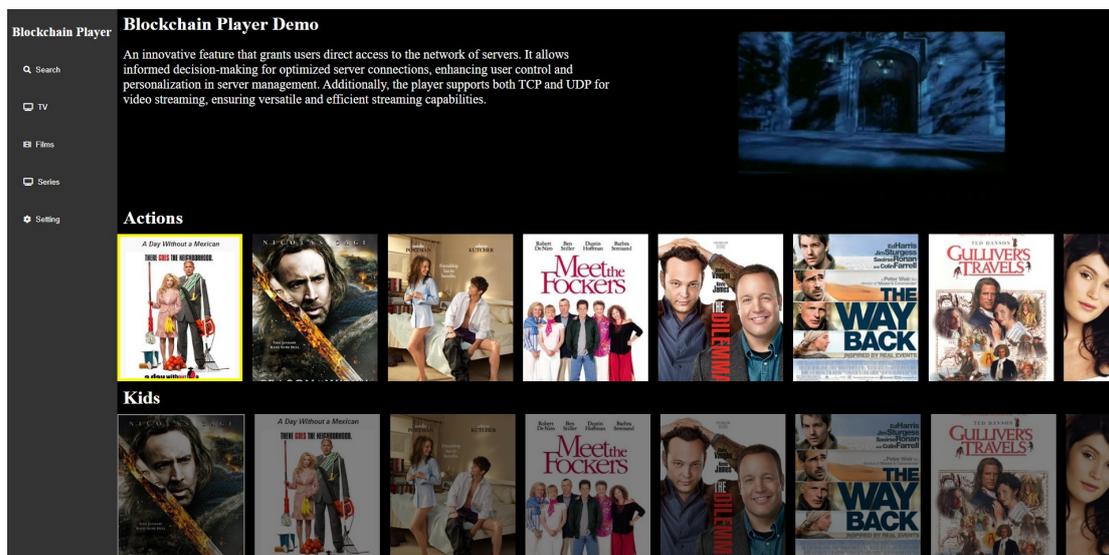
- ezserver automatically refreshes hourly series work folder



## 10 Web Player

It grants users access to live TV channels, on-demand video content, and additional features like electronic program guides. It 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 Web Player on these devices to access the full range of features and enjoy seamless IPTV streaming.

**Middleware URL:** [http://domain:panel\\_port/w/](http://domain:panel_port/w/)

Ex. <http://192.168.0.9:18000/w/>

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

TV1			
On Demand	<input type="checkbox"/>	HLS	<input checked="" type="checkbox"/>
Channel SID	<input type="text"/>	EPG Channel ID	<input type="text" value="TV1"/>
User Agent	<input type="text" value="EzhomeTech(Ezserver)"/>	Bitrate Tolerance	<input type="text" value="0"/>
Catch Up Days	<input type="text" value="0"/>	Proxy Mode	<input type="text" value="0"/>
Input Adapter	<input type="text" value="127.0.0.1"/>		
2nd URL	<input type="text"/>		
3rd URL	<input type="text"/>		



## 11 Blacklist

Blacklist is the protection for illegal connections. There are 2 options to clear blocked IPs.

1. Panel option: Click Management:Blacklist

No.	User	IP	MAC Address	Work Folder	Failed Login times	Available Login times	
1		172.104.210.105	N/A		10	0	✗
2	test	148.101.139.90	N/A		10	0	✗
3	dago	186.149.202.202	N/A		10	0	✗
4		118.193.45.235	N/A		10	0	✗
5		64.62.197.112	N/A	US	10	0	✗
6		205.210.31.93	N/A	CA	10	0	✗
7		205.210.31.93	N/A	CA	10	0	✗
8		87.236.176.220	N/A	BE	10	0	✗
9		87.236.176.247	N/A	BE	10	0	✗
10		87.236.176.248	N/A	BE	10	0	✗

2. SSH option: to clear all blocked IPs
  - login ssh
  - sudo iptables -F
  - cd /home/ezserver\_blockchain
  - ./restart.sh



## 12 User Subscription Portal

Let user buy subscription packages via QRcode with Cryptocurrency or PayPal Gateways.

- Sign Up for 24-Hour Trial:
  - ✧ Get instant access with a 24-hour trial.
  - ✧ Experience our full features and services risk-free.
  - ✧ Sign Up for Trial
- Buy Subscription via Crypto and PayPal QR Code:
  - ✧ Secure and fast payment with cryptocurrency.
  - ✧ Scan the QR code to complete your purchase.
  - ✧ Enjoy uninterrupted service and premium features.

Buy Subscription

- Support Admin - Upload Crypto and PayPal QR Code:
  - ✧ Seamlessly manage your subscribers.
  - ✧ Upload and manage QR codes for easy payments.
  - ✧ Ensure a smooth transaction process for your users.
  - ✧ Upload QR Code

The screenshot shows the 'Ezserver User Management' dashboard. At the top, there are navigation tabs for Dashboard, Subscription, App Setting, and Account. The dashboard features three main cards: 'max Connections' with a value of 1, 'Online Connections' with a value of 0, and 'Expired Time' set to 07/19/2025. Below these is a section titled 'MSU API List' containing a list of API endpoints with checkboxes:

- Channel MSU API: http://192.168.0.3:8000/getlink?username=test&password=1234&type=m3u
- Channel HLS API: http://192.168.0.3:8000/getlink?username=test&password=1234&type=hls
- Movie MSU API: http://192.168.0.3:8000/getlink?username=test&password=1234&type=m3u&content=movie
- Series MSU API: http://192.168.0.3:8000/getlink?username=test&password=1234&type=m3u&content=series
- Content MSU API (channels, movies and series): http://192.168.0.3:8000/getlink?username=test&password=1234&type=m3u&content=all
- XMLTV EPG API: http://192.168.0.3:8000/getxmltv?username=test&password=1234

The screenshot shows the 'Ezserver User Management' interface for a user named 'test'. It features a navigation bar with tabs for Dashboard, Subscription, App Setting, and Account. Below the navigation bar, the user's name 'User: test' is displayed. A table lists subscription packages with columns for My Packages, Total Days, Expire Date, System Packages, Price, and QR Code. Each row includes an 'Order' button.

My Packages	Total Days	Expire Date	System Packages	Price	QR Code
golden	332	07/19/2025	basic	5	<button>Order</button>
			sliver	5	<button>Order</button>
			golden	5	<button>Order</button>
			12 Minths EU	79	<button>Order</button>



## **13 Auto Backup XML Database**

---

Ezserver uses XML format to store user, bouquet and content data.

- **User, Bouquet and Content XML files**
  - ✧ users/user\_profile.xml.
  - ✧ ch\_config/group\_definition.xml
  - ✧ channel\_definition.xml
  - ✧ movie\_definition.xml
  - ✧ series\_definition.xml
- **User, Bouquet and Content XML Auto Backup files**
  - ✧ users/user\_profile\_backup.xml.
  - ✧ ch\_config/group\_definition\_backup.xml.
  - ✧ channel\_definition\_backup.xml
  - ✧ movie\_definition\_backup.xml
  - ✧ series\_definition\_backup.xml.

## **14 Manual Backup XML Database**

---

Ezserver uses XML format to store user, bouquet and content data.

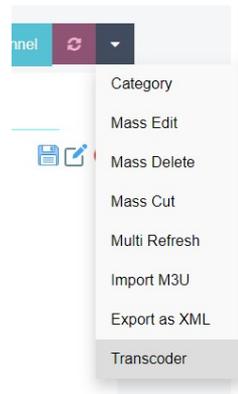
- **Backup**
  - ✧ cd /home/ezserver\_blockchain
  - ✧ ./shutdown.sh
  - ✧ **./backup\_setting.sh**
  - ✧ ls -al ezserver\_backup\_setting.tar
  - ✧ download ezserver\_backup\_setting.tar to local PC.
- **Restore**
  - ✧ upload ezserver\_backup\_setting.tar to /home/ezserver\_blockchain folder
  - ✧ cd /home/ezserver\_blockchain
  - ✧ ./shutdown.sh
  - ✧ **./restore\_setting.sh**
  - ✧ ./start.sh



## 15 Transcoder

Ezserver supports CPU and GPU channel transcoding.

- Add **transcoder\_path=.**ffmpeg in **ezserver\_enterprise/ezserver\_config.txt.**
- Restart ezserver
- Click Channel menu and select Transcoder as below



- Input transcoder setting for channels

### Transcoder Setting

Choose one category:

Transcoding  ABR

GPU  CUDA

Video  Audio

Encoding Speed  Aspect Ratio

---

ABR 1st Option

Resolution X  Resolution Y

Output bitrate

---

ABR 2nd Option

Resolution X  Resolution Y

Output bitrate

---

ABR 3rd Option

Resolution X  Resolution Y

Output bitrate

---

Input Custom Command

Output Custom Command

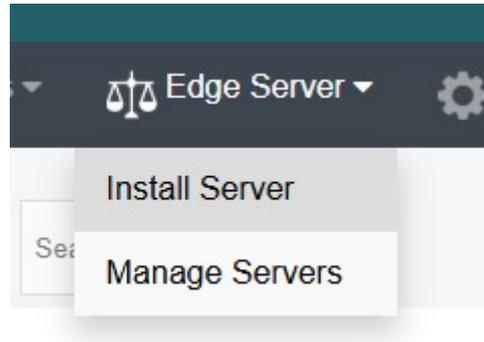
- More at [https://www.ezhometech.com/html/hardware\\_transcoding\\_reference\\_guide.html](https://www.ezhometech.com/html/hardware_transcoding_reference_guide.html)



## 16 CDN Channel Setting

CDN needs edge servers for streaming, so admin needs to install ezserver and set channels to each edge server as below:

- **Install server**



### New Server

Server Name	<input type="text" value="bl10"/>	Country	<input type="text" value="GE"/>
SSH IP	<input type="text" value="192.168.0.10"/>	SSH Port	<input type="text" value="22"/>
SSH Username	<input type="text" value="robert"/>	SSH Password	<input type="text" value="ezhometech22"/>

- ✧ Input the below fields with **Alpha-2 Country code** and click Install button

### New Server

Server Name	<input type="text" value="bl10"/>	Country	<input type="text" value="GE"/>
SSH IP	<input type="text" value="192.168.0.10"/>	SSH Port	<input type="text" value="22"/>
SSH Username	<input type="text" value="robert"/>	SSH Password	<input type="text" value="ezhometech22"/>

- ✧ Need about 65 seconds for installation

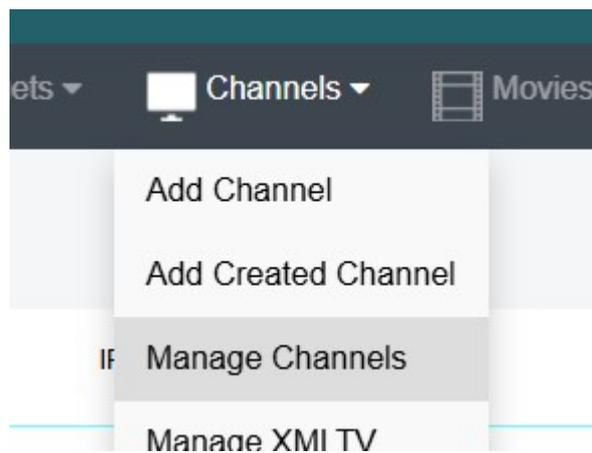


No.	Status	Server Name	IP	Connection	Network	CPU	Memory	Disk	Country	Version
1	<span style="color: red;">●</span>	bt10	192.168.0.10	0 of 0	0.001 of Mbps	0.00%	0%	0%	TW	

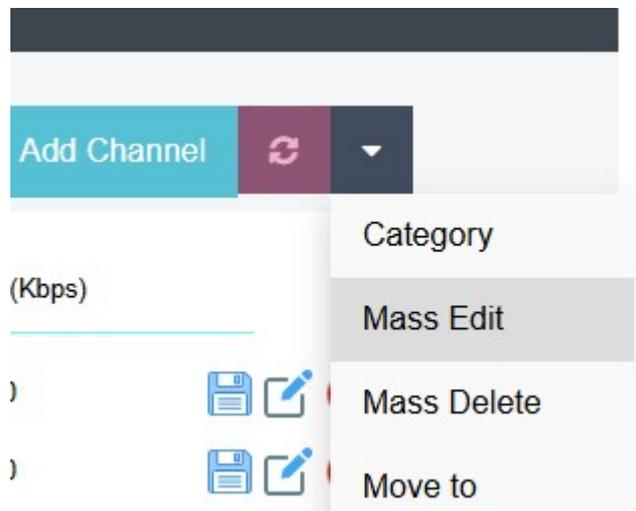
✦ Click refresh button to check if Status button from red to blue color

- **Red status button:** disconnected
- **Blue status button:** connected

• **Set Channels to edge servers**

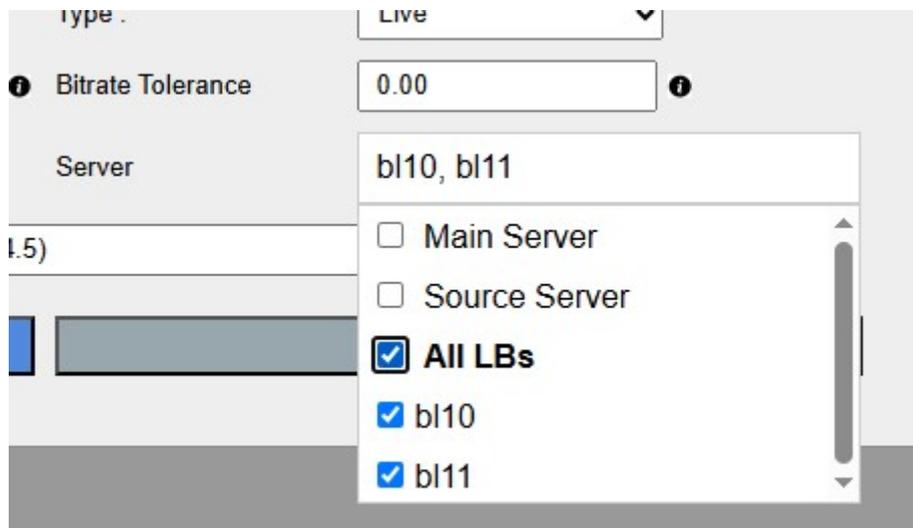


✦ Click Mass Edit menu



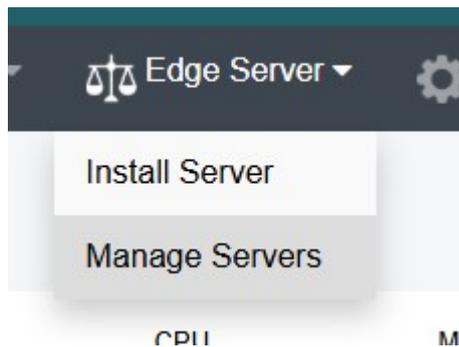


✧ Select Servers



- **Restart Server to distribute channels into edge servers**

✧ Click Manage Servers



✧ Click Restart Server button



✧ Select servers

