



Ezserver Blockchain Tutorial

Revision: 02/01/24



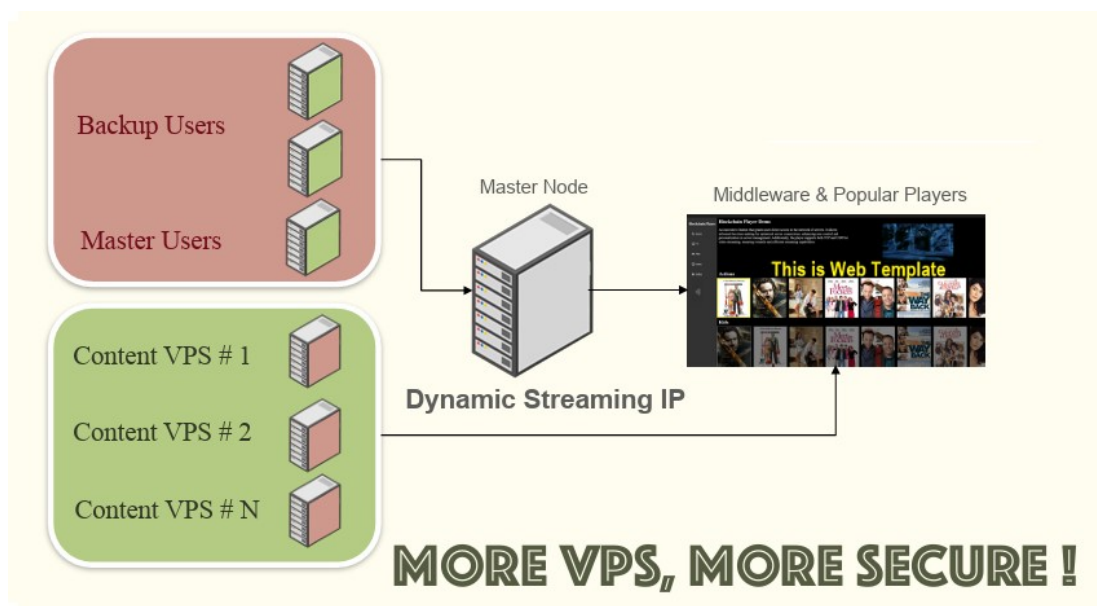
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1 Ezserver

Decentralization video streaming



Ezserver utilizes decentralized blockchain technology to distribute user and content databases across multiple servers. This enhances security by preventing hackers from stealing user data or content and provides protection against Distributed Denial of Service (DDoS) attacks.

The User Node serves as the cornerstone for managing user information. It not only safeguards user data but also provides a seamless and user-centric experience, ensuring the utmost privacy and security for every individual within the system.

The Content Node, on the other hand, is the heart of content delivery, capable of streaming both channels and movies with unparalleled speed and reliability. Ezserver ensures that your content is delivered to your audience with exceptional quality and efficiency.

Privacy is of utmost importance in the digital age, and this is where the Reverse Proxy Node comes into play. It acts as a guardian, concealing user identities and ensuring their online activities remain confidential, offering peace of mind in an era where data security is a top concern.

Additionally, the Proxy Node functions as a versatile VPN server, further fortifying the anonymity of both User and Content Servers. By masking their origins and encrypting data, it creates a secure environment for seamless and confidential content delivery.



In a world where data protection and secure content delivery are essential, Ezserver's blockchain-based panel sets a new standard for server management. This innovative approach not only ensures the utmost security but also paves the way for a future where server management is efficient, user-centric, and anonymous. With Ezserver, you can trust that your digital infrastructure is in safe hands, ushering in a new era of server management and content delivery.

What sets Ezserver apart is its innovative Blockchain Player. This feature allows users to obtain the blockchain of servers directly from the main server, enabling them to make informed decisions about which server to connect to. In a digital landscape where data security and efficient content delivery are paramount, Ezserver redefines server management by offering a user-centric and anonymous approach to safeguarding your digital infrastructure.

Requirement:

Minimum Server Requirement:

- **Linux:** Ubuntu 20.04(Recommended), Debian, Centos
- **Windows:** 64-bits
- **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 configuration tutorial:

https://www.ezhometech.com/document/Ezserver_Blockchain_Configuration.pdf

Ezserver User Guide:

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



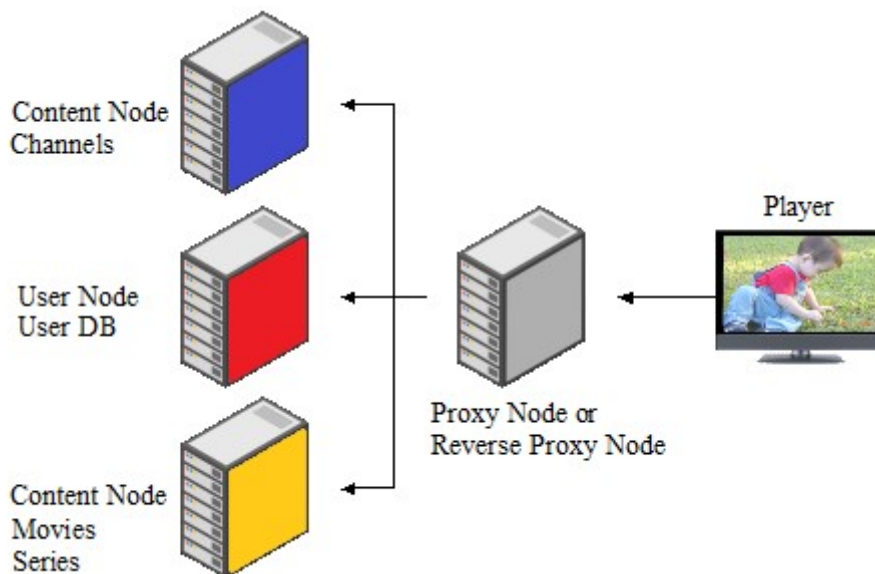
1.1 Blockchain Server (Web 3.0)

It includes Channel Unicast Server , Movie Unicast Server, Episode Unicast Server, XMLTV EPG Parser, MPEG TS EPG Parser, MPTS to SPTS Parser, Authorization Security Server and Authentication Server. It uses **Blockchain technology** instead of loader balance, CDN technology.

Additionally, You can create a new private cloud or join other private cloud networks for enhanced DDoS defense and content exchange capabilities as below network configuration.

The blockchain network consists of 4 pivotal nodes, each playing a crucial role in ensuring a robust and secure ecosystem for content delivery. These nodes are **User Server**, **Content Server**, **Proxy Server** and **Reverse Proxy Server**.

A Proxy Node acts *VPN server* to hide the User and Content Servers, or **A Reverse Proxy Node** hides the User Server, guarding it from direct exposure. This enhances security, load balancing, and overall performance.





1.2 Installation and License activation

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

```
THANKS YOUR EZSERVER SUBSCRIPTION, PLEASE REFER THE BELOW:

Hello,

A. Linux Ubuntu 20.04 --- video:

1. Login ssh by root or sudo user
2. apt install openssl
3. openssl version
4. if not version 1.1, reinstall openssl by the instructions.
5. cd /home && wget -O install.sh http://www.ezhometech.com/ install.sh && chmod 777 install.sh
6. ifconfig //select one network interface for next step
7. ./install.sh
8. Contact sales@ezhometech.com for password.
9. Panel port and Streaming Port must be different.
10. cat /home/ezserver_enterprise/serial_number.txt

11. email /home/ezserver_enterprise/serial_number.txt (size: 97 bytes) with paypal transaction info. to sales@ezhometech.com for license activation.

B. Windows

1. Click here to download it and contact sales@ezhometech.com for unzip password.
2. Refer Readme.txt in zip file.
3. Double Click Ezserver.exe to create serial_number.txt.
4. email ezserver_enterprise/serial_number.txt (size: 97 bytes) with paypal transaction info. to sales@ezhometech.com for license activation.
```

Windows version:

- Download ezserver_blockchain.zip from the checkout web page.
- Refer Readme.txt in zip file to run Ezserver.exe.
- Email us the ezserver_blockchain/serial_number.txt (size: 74bytes) to active ezserver license.

Note:

Windows version with multiple network cards

- Open ezserver_config.txt and edit network_interface value..
- network_interface value
 - eth0: the first card
 - eth1: the 2nd card
 - eth2: the 3rd card.
- Delete serial_number.txt and double click Ezserver.exe to create new serial_number.txt to us for license reactivation.

Linux:

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



1.3 Start / Restart / Shutdown

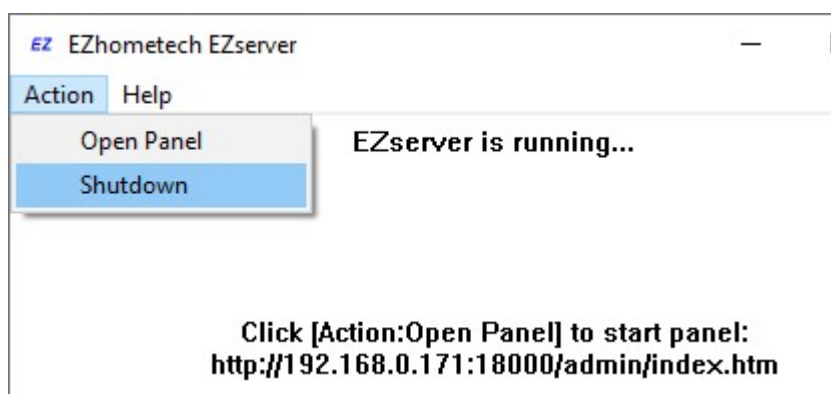
Windows version:

- Start:
 - ✧ Double Click Ezserver.exe
- Restart: Login Panel and Click the below button



wait 30~60 seconds to relogin panel.

- Shutdown:



Linux Version: ezserver at /home/ezserver_blockchain folder

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



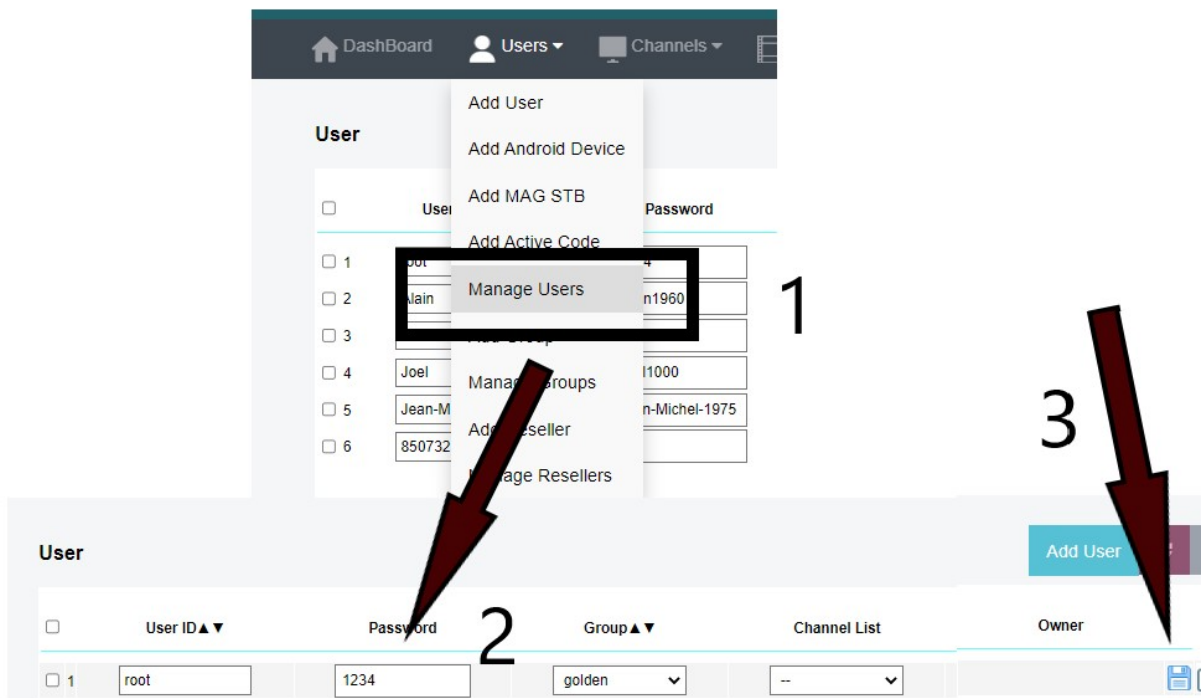
wait 30~60 seconds to relogin panel.

- Shutdown:
 - ✧ `sudo -i`



- ✧ `cd /home/ezserver_blockchain`
- ✧ `./shutdown.sh`

1.4 Admin Password



1.5 Software Update

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

1.6 User Authorization for Streaming URL

- Enable **user_authorization** in `ezserver_blockchain/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

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>

Setting

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

HTTPS Protocol: (Support Ubuntu 20.04 only)

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

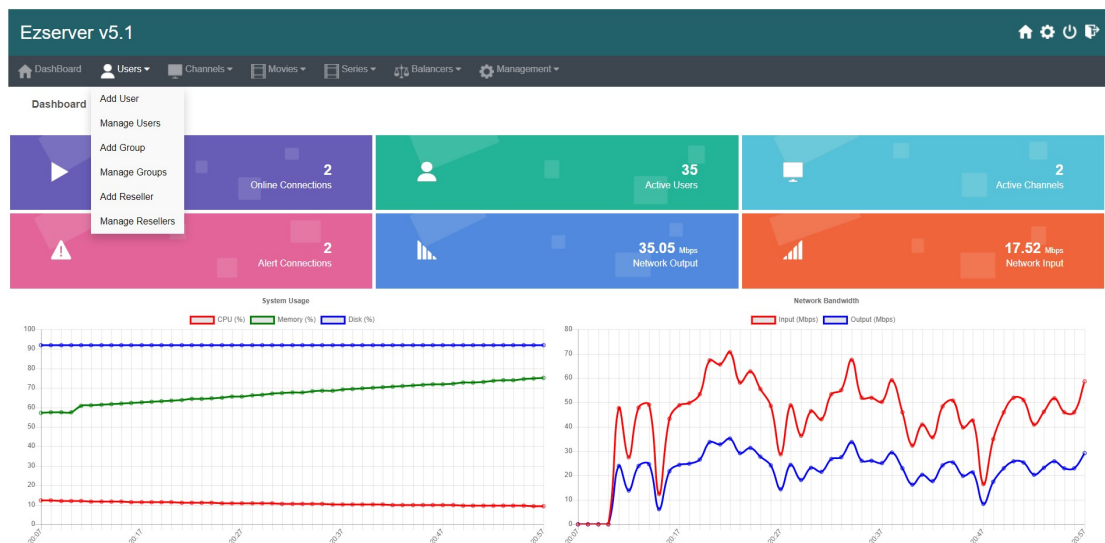
Ex. <http://192.168.0.9:18443/>

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

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

Setting

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



- **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**



2.1 User Management

There are 3 options for player activation.

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

The screenshot shows the 'Users' section of a dashboard. At the top, there is a navigation bar with icons for Dashboard, Users, Channels, Movies, and Series. Below the navigation bar, there is a dropdown menu for 'Add User' with options: Add User, Add Android Device, Add MAG STB, Add Active Code, Manage Users, Add Group, Manage Groups, Add Reseller, and Manage Resellers. The 'Add Android Device' option is highlighted. Below the dropdown, there is a table with columns: User ID, Username, Password, and Group. The table contains 8 rows of data. The last row (User ID 8) has a MAC address field that is highlighted in red.

User ID	Username	Password	Group
1	root		golden
2	test		golden
3	d8:f3:68:2		golden
4	44:d3:ad:		golden
5	c6:19:7a:		golden
6	30:95:87:		golden
7	30:95:87:		golden
8	00:1a:79:00:00:01		basic

Showing 1 to 8 of 8 users

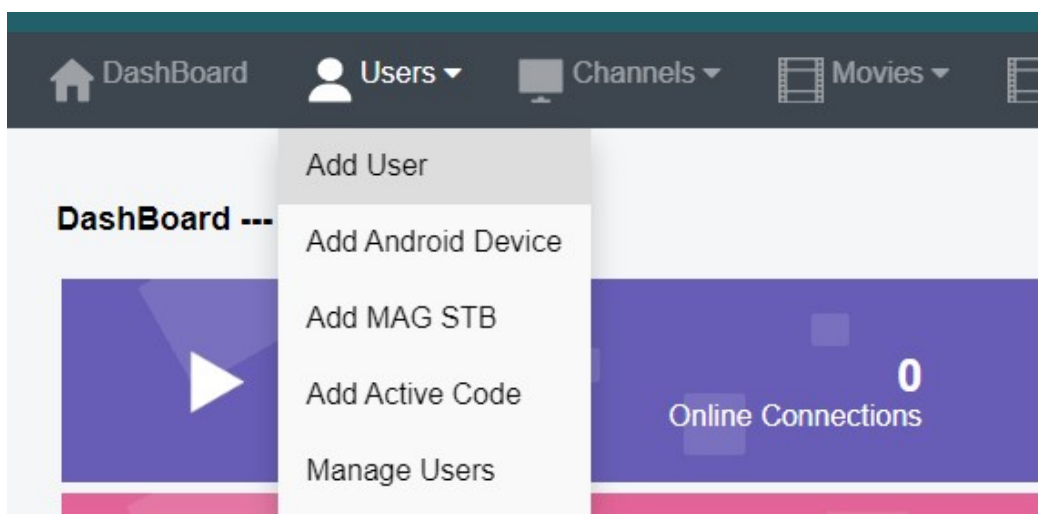
New Android Device

User at	8	MAC Address	00:1A:A1:24:C8:C8
Password		Rating Password	2989770773
Group	basic	Level	User
Expired Time	1 month	Connection Limit	1
IP		Device Type	android

Add **Cancel**



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



New User

User at	<input type="text" value="18"/>	User Name	<input type="text" value="test"/>
Password	<input type="text" value="1234"/>	Rating Password	<input type="text" value="7402473116"/>
Group	<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"/>



- Click “Add Active Code”

User	Password	Group
1 root		golden
2 test		golden
3 21	024	basic

New Active Code

User at	18	Active Code	4866693631
Password		Rating Password	1234
Group	basic	Level	User
Expired Time	1 month	Connection Limit	1
IP		Device Type	activecode

Add **Cancel**

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



2.2 Channel Management

2.2.1 Add new channel

1.

The screenshot shows the 'Channels' management interface. At the top, there is a navigation bar with icons for Dashboard, Users, Channels, Movies, and Series. Below this, a dropdown menu is open under the 'Channels' icon, showing three options: 'Add Channel', 'Manage Channels', and 'Manage EPG'. The main content area is titled 'Channel' and contains a table with columns for 'Channel Name' and 'Media Source'. The table lists three channels: 'RTS 1' with media source 'dir://media/videos/Movie/', 'TV3' with media source 'http://bitcdn-kronehit.bitmovin.com/v2/f', and 'RTS 2' with media source 'dir://media/videos/Movie/'.

	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.

The screenshot shows the 'New Channel' form. It has the following fields and values:

- Channel at: 17
- Channel Name: TV1
- Media Source: http://streamking.dvrns.org:25461/77/YKKtfq0vRn/19957
- Icon Path: https://cdn1.iconfinder.com/data/icons/metro-ui-dock-icon-set--icons-by-d
- Category: Kid
- Type: Live (selected from a dropdown menu that also shows Movie, DVR, Inactive, and Delay 5 sec.)

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



2.2.2 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: 3 Options: Cache on demand ▾

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.

Import Channels

Channel after Options Cache on demand ▼

M3U from HTTP URL or Local File

HTTP URL

Local File : No file chosen

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_blockchain` folder
- Open `/home/ezserver_blockchain/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)

Channel Setting:

Channel Input Buffer No. ⓘ

DVR Duration ⓘ

Video Input Quality SD HD (0.00)

2. HD / FHD channel (above 4Mbps)



Channel Setting:	
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)

2.2.4 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"/> ⓘ
-------------	--------------------------------------	-------------------	-------------------------------------

2.2.5 Daily Refresh Channel

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



2.3 Movie Management

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

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: 3 Movie Name: Love

☒ File ☐ Folder

Category: Action

Rent Point: Buy Point:

Media Source : file:///middleware/videos/Sports/1.mp4

Icon Path :

Description:

Add Cancel

New Movie

Click Here

Movie at: 3 Movie Name: Love

☒ File ☐ Folder

Category: Action

Rent Point: Buy Point:

Media Source : file:///middleware/videos/Sports/1.mp4

Icon Path : Select a Movie URL

Description:

Add Cancel

Select one option from the list:



New Movie

Movie at Movie Name

☒ File ☐ Folder

Category

Rent Point Buy Point

Media Source :

Icon Path :

Description

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

Media Source	Icon Path
file:///middleware/videos/Sports/1.mp4	file:///middleware/pictures/Sports/1.jpg
file:///middleware/videos/Kids/1.flv	file:///middleware/pictures/Kids/1.jpg

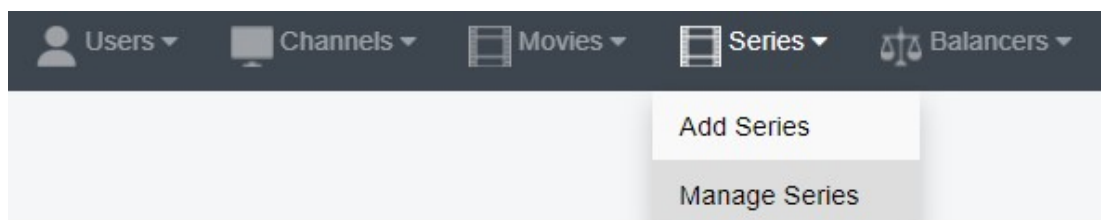
2. Click **Choose Files** to select new.m3u and click **Submit** button.

Upload Movies

File : No file chosen



2.4 Series Management



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

Showing 1 to 3 of 3 series

New Series

Series at	<input type="text" value="4"/>	Series Name :	<input type="text" value="new1"/>
Category :	<input type="text" value="Series2"/>	Season No. :	<input type="text" value="4"/>
Rating :	<input type="text"/>	Released Date :	<input type="text" value="12/12/2022"/>
Icon Path :	<input type="text" value="file://media/pictures/action/1.jpg"/>		
Description :	<div>1234</div>		



2.5 EPG Management

DashBoard

Users

Channels

Movies

Series

EPG

Channel

1

2022

Add Channel

Manage Channels

Manage EPG

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

http://www.ezhome.tech/~kario/iptv/epg.xml

System Setting:

Max. Streaming No.

1000

Pagination Limit Number

System Log Lines

1000

Admin. System Log Lines

Security Setting:

Alert Player Duration

0.001

Blacklist Option

Save

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"/>	
<div><div>MPEG EPG Extraction</div><div><input checked="" type="checkbox"/></div></div>		

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	<div>DAILY ▼ ON DAILY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY</div>
Start Time	<input type="text" value="18:00"/>	Stop Time	
Title	<input type="text"/>	Icon URL	
Description	<input type="text"/>		
<input type="button" value="Add"/>		<input type="button" value="Cancel"/>	



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:

Add

Cancel



2.7 Reseller Management

DashBoard

Users

Channels

Movies

Series

Reseller

No.

1

2

3

4

5

6

Add User

Manage Users

Add Group

Manage Groups

Add Reseller

Manage Resellers

Email

@gmail.com

@gmail.com

1@gmail.com

1@gmail.com

@gmail.com

@gmail.com

sr3

sr4

New Reseller

No.

7

Total Credit :

1000

Name :

susan

Password :

1234

Group

golden

Level:

Reseller

Expired Time :

12/31/2024

Email:

susa@gmail.com

Auto Renew

ON

Add

Cancel

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.



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.

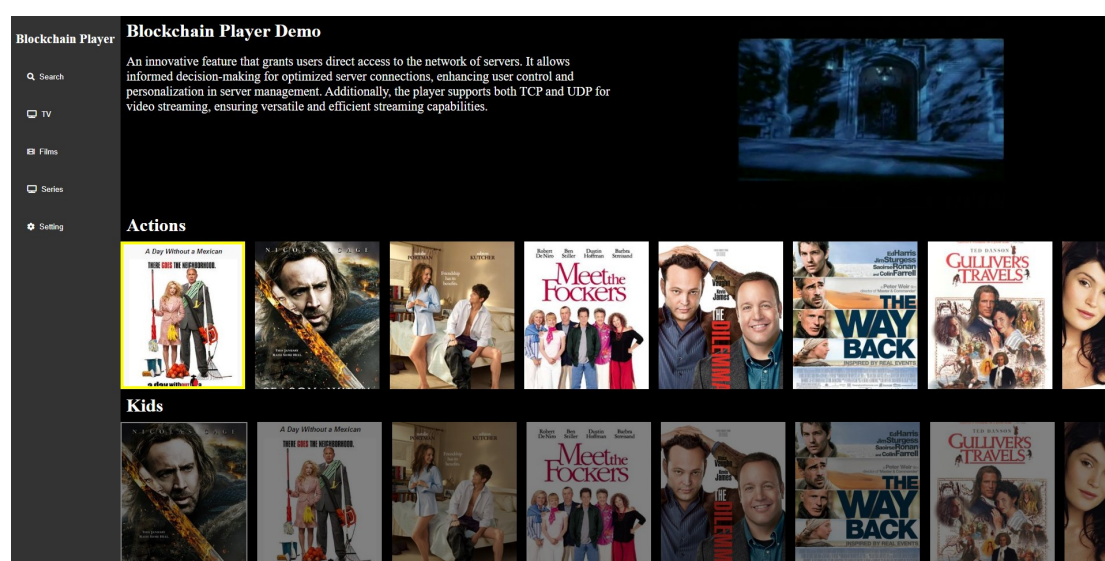
<input type="checkbox"/>	User Name	Password	Gr
<input type="checkbox"/> 1	rt51	9091880686	basic
<input type="checkbox"/> 2	rt52	9091880686	basic
<input type="checkbox"/> 3	rt53	9091880686	basic



4 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**

TV1

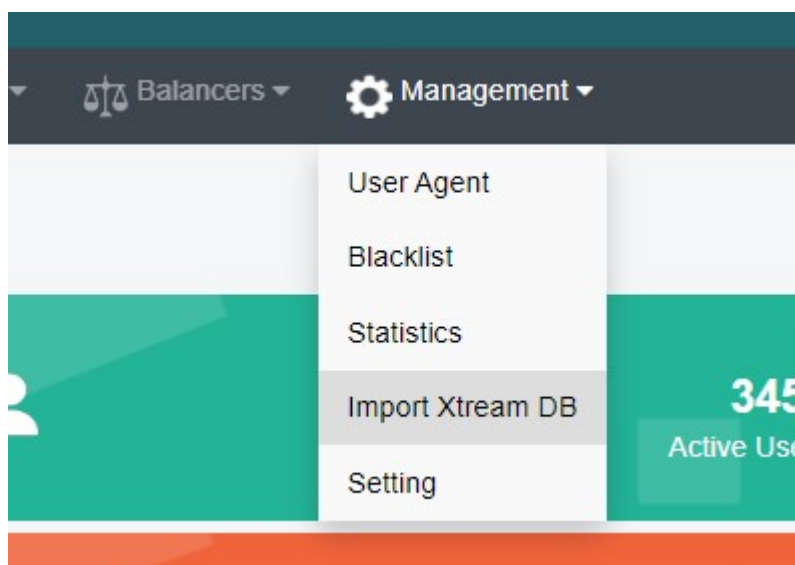
On Demand	<input type="checkbox"/>	HLS	<input checked="" type="checkbox"/>
Channel SID	<input type="text"/>	EPG Channel ID	<input type="text" value="TV1"/>
User Agent	<input type="text" value="Ezhometech(Ezserver)"/>	Bitrate Tolerance	<input type="text" value="0"/>
Catch Up Days	<input type="text" value="0"/>	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"/>		



5 Other Panel DB to Ezserver

Migrate Xtream Users and Resellers to Ezserver

- Click management:Import Xtream DB button



- Upload xstream IPTVpro.sql
- Click Submit button

Import Xtream DB

Local File :

Choose Files xstream IPTVpro.sql

Submit

Cancel

***** Restart ezserver after import xtream DB. *****



6 Blockchain Node Setting

The blockchain network consists of 4 pivotal nodes, each playing a crucial role in ensuring a robust and secure ecosystem for content delivery. These nodes are **User Server**, **Content Server**, **Proxy Server** and **Reverse Proxy Server**

- **User node** : management user information.
- **Content node** : It can be for channel or movie streaming.
- **Reverse Proxy node** : hide the User.
- **Proxy node** : acts VPN server to hide the User and Content Servers.
- **Proxy node (www.your_domain_name.com)**
 - ✧ Add proxy_server=1 in `ezserver_blockchain/ezserver_config.txt`
 - ✧ **Delete all users except root and channels, movies and series.**
 - ✧ Enable Main / Slave Node option
 - ✧ Define Control port

Main / Slave Node	<input checked="" type="checkbox"/>	
Control port	<input type="text" value="17100"/>	

- **Reverse Proxy node (www.your_domain_name.com)**
 - ✧ **Delete all users except root and channels, movies and series.**
 - ✧ Enable Main / Slave Node option
 - ✧ Define Control port

Main / Slave Node	<input checked="" type="checkbox"/>	
Control port	<input type="text" value="17100"/>	



- **User Node**

Acts Main node

- ✧ **Delete channels, movies and series.**
- ✧ Enable Main / Slave Node option
- ✧ Define Control port

Main / Slave Node	<input checked="" type="checkbox"/>	
Control port	<input type="text" value="17100"/>	

Otherwise (Slave Node)

- ✧ **Delete channels, movies and series.**
- ✧ Disable Main / Slave Node option
- ✧ Input User Node Domain Name
- ✧ Input User Node Control port

Main / Slave Node	<input type="checkbox"/>	
Main Node Domain Name / IP	<input type="text" value="www.your_domain_name.com"/>	
Main Control port	<input type="text" value="17100"/>	

- **Content Node**

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

Main / Slave Node	<input type="checkbox"/>	
Main Node Domain Name / IP	<input type="text" value="www.your_domain_name.com"/>	
Main Control port	<input type="text" value="17100"/>	



Example:

Main node

Main / Slave Node ☒

Control port

Streaming port

Slave node

Main / Slave Node ☐

Control port

Streaming port

Main Node Domain Name

Main Control port

When a server has full connections, Ezserver invokes Blockchain function to let other servers serve the new connection and shows protocol **BVP** instead of **HTTP** in current server and **BCP** in another server.

System Setting:
Max. Streaming No.

CNN The 1001th connection requests CNN channel, it will be forwarded to one of Europe servers.

On Demand ☒ HLS ☐

Channel SID

EPG Channel ID

User Agent

Bitrate Tolerance

Catch Up Days

Proxy Mode

Input Adapter

AES Encryption ☐

Blockchain Region Blockchain Group ID

2nd URL

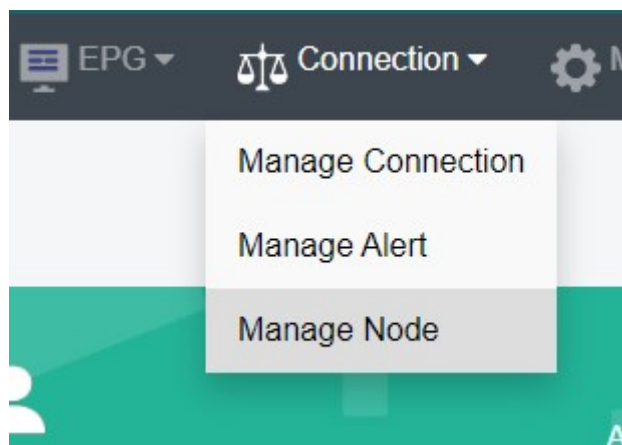
3rd URL



7 Work Folder

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

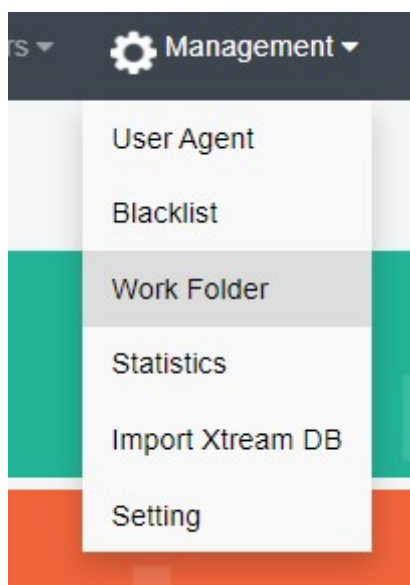
- Check Content Nodes in main server first



Nodes				
No.	Node	Region	Group ID	
1	192.168.0.9	Asia	18000	
2	192.168.0.5	Europe	18000	

Showing 1 to 2 of 2 nodes

- Create Work Folder of Content Nodes in main server





Create Movie Folder

New Folder

Server Name

192.168.0.5

Folder Type

Movie

Selected path

/home/media

Enabled


☒

Add

Cancel


- Add new folder (/home/media) in Content Node
- 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

192.168.0.5

▼

Folder Type

Series

▼

Selected path

/home/series

Enabled








☒

Add

Cancel

- 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

 used US - S01E01 - WEBDL-720p.mkv
 used US - S01E02 - WEBDL-720p.mp4
 bhagya-lakshmi - S01E05 - WEBDL-720p.mp4
 bhagya-lakshmi - S01E04 - WEBDL-720p.mp4
 bhagya-lakshmi - S01E03 - WEBDL-720p.mp4
 bhagya-lakshmi - S01E02 - WEBDL-720p.mp4
 bhagya-lakshmi - S01E01 - WEBDL-720p.mp4

- ezserver automatically refreshes hourly series work folder



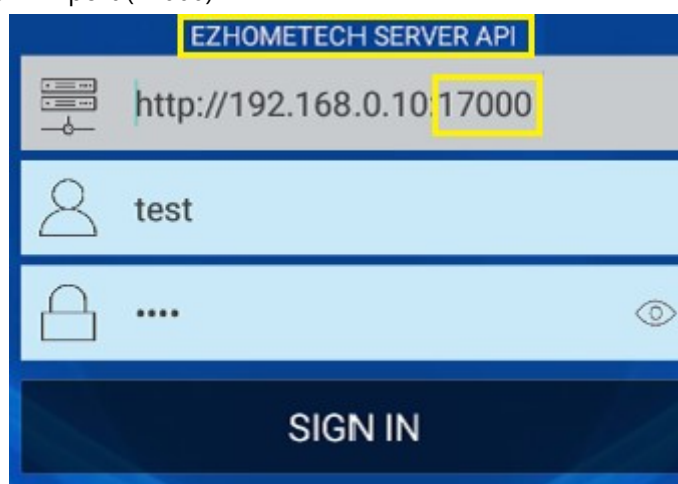
8 Supported Popular Players

XCIPTV

- Select Ezhometech API

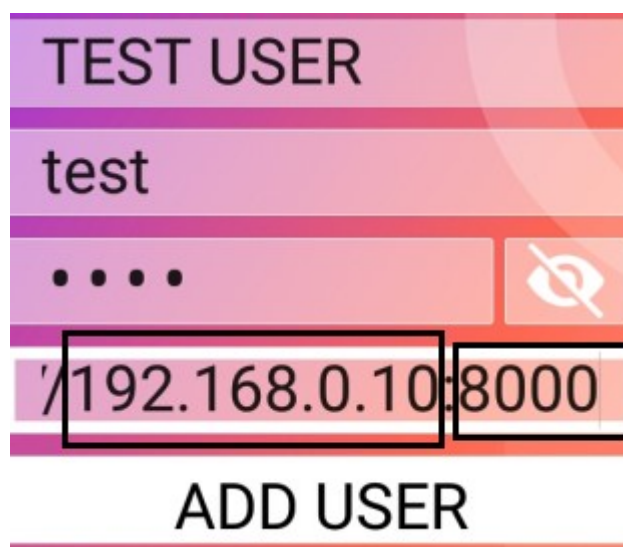


- uses Ezserver API port (17000)



IPTV Smarter

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





Mag STB

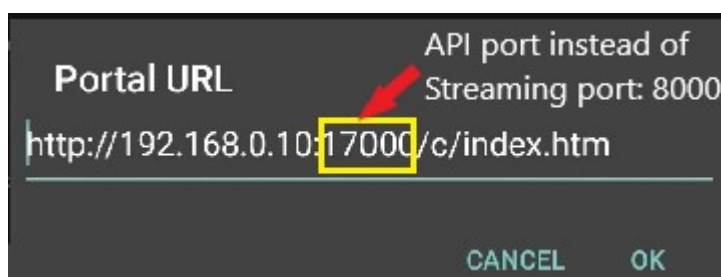
Use Ezserver API port (17000)

- Add Mag MAC ID into Ezserver IPTV Panel

New Mag STB

User at	<input type="text" value="3"/>	MAC Address	<input type="text" value="00:1A:A1:24:C8:C9"/>
Password	<input type="password"/>	Rating Password	<input type="password" value="3245087872"/>
Group	<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"/>
<input type="button" value="Add"/>		<input type="button" value="Cancel"/>	

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

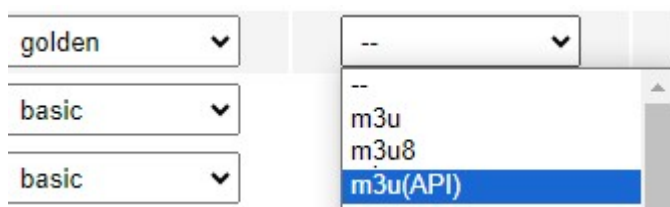




9 M3U / M3U8 URL for Players

9.1 M3U List API

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



Copy the URL to players



9.2 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)

<input type="text" value="golden"/>	<input type="text" value="--"/>
<input type="text" value="basic"/>	<input type="text" value="--"/>
<input type="text" value="basic"/>	<input type="text" value="m3u8(API)"/>

Copy the URL to players