

# **Ezserver Tutorial**

# Web 3.0 Video Streaming

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### <u> 1 Ezserver</u>

### THE HISTORY OF MEDIA SERVER SOFTWARE



While it is true that most panels and video streaming servers support only web 2.0, Ezserver stands out by offering support for both web 2.0 and web 3.0 technologies. This means that Ezserver not only provides the traditional web 2.0 features but also incorporates the innovative capabilities of web 3.0, enabling enhanced functionality and future-ready solutions for our customers.

Web 3.0 leverages decentralized technologies like blockchain and peer-to-peer networks, which can enable decentralized content delivery networks (CDNs). This decentralized approach can improve scalability, reduce reliance on centralized servers, and enhance video streaming performance by distributing content across a network of nodes.

Ezserver offers two versions of its web streaming server: Enterprise and Blockchain. The Enterprise version is a Web 2.0 server that provides a centralized solution with a main server and balancers. This version is ideal for organizations that need a reliable and comprehensive solution for handling high traffic volumes and complex network architectures.

In contrast, Ezserver Blockchain is a Web 3.0 server that uses blockchain technology to act as a decentralized server that can function as a main or slave server. This approach results in a more secure and resilient network architecture, making it ideal for organizations that prioritize security and flexibility in their web streaming services.

Whether you choose the Enterprise version or the Blockchain version, you can rest assured that Ezserver provides a powerful and scalable solution for all your web streaming needs.



#### Web server:

• **Protocol:** HTTP and HTTPS.

### Enterprise server:

- **Protocol:** Enterprise UDP SPTS, MPTS
- Encryption: AES-256.
- Video format: H264 and H265.
- Audio format: AAC, MP3.

### Blockchain server:

- **Protocol:** HTTP and HTTPS
- Video format: H264 and H265.
- **Audio format:** AAC, MP3.

### IPTV panel:

- User management: create, modify and delete users.
- Channel management: create, modify and delete channels.
- Movies management: create, modify and delete movies.
- Series management: create, modify and delete series.
- **Reseller panel:** create, modify and delete his users.



### 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





## 1.2 Enterprise Server (Web 2.0)

**Ezserver Enterprise Server** is a Centralized server with Load balancers

that supports unicast and multicast player to play channels from Ezserver via HTTP and UDP encryption protocol.





## **1.3 Requirement**

Hardware Requirement:

- Min. Requirement: Dual-Core, 8GB RAM, 1GB Network card.
- More at <a href="http://www.ezhometech.com/html/ezserver\_user\_guide.html#Hardware%20requirement">http://www.ezhometech.com/html/ezserver\_user\_guide.html#Hardware%20requirement</a>

Software Requirement:

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

### 1. 4 Related Information

Ezserver Forum: https://ezserver.createaforum.com/ Ezserver User Guide website: http://www.ezhometech.com/html/ezserver user guide.html Ezserver Linux Installation https://youtu.be/MIZGY zqd9g Ezserver Transcoding Guide http://www.ezhometech.com/html/ezserver transcoder guide.html



### **1.7 Installation and License activation**

### 1.7.1 Enterprise Server

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
4. if not version 1.1, reinstall openssI by the instructions.
5. cd /home && wget -O install.sh http://www.ezhometech.com/
6. If conflig //select one network interface for next step
8. Contact sales@ezhometech.com for password.
9. Panel port and Streaming Port must be different.
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.bt 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\_enterprise.zip from the checkout web page.
- Refer Readme.txt in zip file to run Ezserver.exe.
- Email us the ezserver\_enterprise/serial\_number.txt (size: 74bytes) to active Ezserver license.

#### 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.

#### 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 2<sup>nd</sup> card
  - eth2: the 3<sup>rd</sup> card.
- Delete serial\_number.txt and double click Ezserver.ext to create new serial\_number.txt to us for license reactivation.

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### 1.7.2 Blockchain server

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
4. if not version 1.1, reinstall opensel by the instructions.
5. cd /home && wget -O Install sh http://www.ezhometech.com/
6. Hoonfig //select one network interface for next step
8. Contact sales@ezhometech.com for password.
9. Panel port and Streaming Port must be different.
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@ezhomelech.com for unzip password.
2. Refer Readme.txt in zip file.
S. 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.

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.



### 1.8 Start / Restart / Shutdown

### 1.8.1 Enterprise Server

### 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\_enterprise folder

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



wait 30~60 seconds to relogin panel.

- Shutdown:
  - ♦ cd /home/ezserver\_enterprise
  - ♦ ./shutdown.sh

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### 1.8.2 Blockchain server

Linux Version: ezserver at /home/ezserver\_blockchain folder

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



wait 30~60 seconds to relogin panel.

- Shutdown:
  - ♦ cd /home/ezserver\_blockchain
  - ♦ ./shutdown.sh



### 1.9 Admin Password





## 2. IPTV Panel

### Admin Panel Input URL: http://domain:port

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



- 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

	oard	👱 Users 🔹 💻 C	hannels 👻 📘 Movies	▼ Series ▼
		Add User		
User		Manage Users		
	0	Add Group	Password	Group ▲ ▼
		Manage Groups	1234	golden 🗸
		Add Reseller	9390973961	basic 🗸
		Manage Resellers	c42fad711688	golden 🗸
		4 test	1234	golden 🗸

User at	300	User Name	new1
Password	4128295961	Rating Password	4128295961
Group	basic	✓ Level	User 🗸
Exp <mark>ired T</mark> ime	1 month	✓ Connection Limit	1
IP		MACID	



New User		MAC I Input	D : 11:22:33:44:55:66 format: <b>11223445566</b>
User at	300	User Name	new1
Password	4128295961	Rating Password	41282955 1
Group	basic	✓ Level	User 🗸
Expired Time	1 month	Connection Limit	1
IP		MAC ID	112233445566
A	dd		Cancel

Add trial user

New User		Trial User	
User at	300	User Name	new1
Password	4128295961	Rating Password	4128295961
Group	basic	✓ Level	Trial 🗸
Expired Time	1 hour	Connection Limit	1
IP	2 hours 3 hours	MAC ID	112233445566
A	5 hours 6 hours		Cancel
	7 hours		



## 2.2 Channel Management

### 2.2.1 Add new channel

1.

			Add Channel	
Channel			Manage Channe	Is
		Channel Nar	Manage EPG	Vedia Source
	0 1	RTS 1	dir://med	lia/videos/Movie/
	□ 2	TV3	http://bite	cdn-kronehit.bitmovin.com/v2/r
	□ 3	RTS 2	dir://med	lia/videos/Movie/

Channel at	1/	Channel Name :	TV1	
Media Source :	http://strean	nking.dvrdns.org:2546 <mark>1</mark> /77/YKK	(tfq0vRn/19957	
Icon Path :	https://cdn1	iconfinder.com/data/icons/metr	ro-ui-dock-icon-seticons-by	/-d:
Category :	Kid	✓ Type :	Live	~
			Live	
	Add		Can Movie	
	Muu		DVR	
			Inactive	
			Delay 5 sec	



### 2.2.2 Import channels by m3u link

1. Click Channels: Manage Channels: Import M3U

nt DashBoa	ard	👤 Users 🕶	Cha	nnels 🔻	Movies 🕶	Series
			Add Cha	annel		
Channel			Manage	Channels		
		Channel Nar	Manage	EPG	Vedia Source	
	0 1	RTS 1		dir://media/	videos/Movie/	
	□ 2	TV3		http://bitcdn	-kronehit.bitmovin.c	om/v2/r
	□ 3	RTS 2		dir://media/	videos/Movie/	

### 2. Click Import M3U

No Filter 🕶	20	~	Add Channel	C	-
					Multi Refresh
					Import M3U
					Export as XML
					Transcoder

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

hannel after	3	Options	Cache on demand 🗸
13U from HTTP	URL or Local File		
1			
	http://serverin	nort/get.php&username=test&pa	ssword=12348.output=mpogts

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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
- Login panel to check it again.



## 2.3 Movie Management

	ard	Users 🗸	Channel	s 🕶	Movies -	Serie
					Add Movie	
Movie					Manage Movies	
		Movie N	lame 🛦 🔻		Media Source	
	□ <u>1</u>	THE BEST U	PCOMING MC	http	s://youtu.be/uAQFxn2	2Ss84
	□ 2	GOLD Trailer	(2022)	http	s://youtu.be/9UHxMB	hFy88
	3	NEW MOVIE	TRAILERS (2	http	s://youtu.be/LbSeaed	26SI

2.3.1. Add Movies with TMDB Movie Icon and description.

New Movie	e TMDB import		B import
Movie at	3	Movie Name :	
File		O Folder	
Category	Kids	~	
Rent Point		Buy Point	
Media Source :	media/videos/gd	drive	
Icon Path :			
Description	TMDB poster in 1. Monut goog 2. Each folder i 3. Folder name 4. Select Folde 5. Ezserver will	mport gle driver to ezserver_xxxx inside gdrive has only one e is same as TMDB movie r option. auto get TMDB Poster pa	xxx/media/videos/gdrive e movie (.mp4, .mkv, .ts). name. ath and Movie Description
A	dd		Cancel



### 2.3.2. Upload Local movies

1. Click Movies: Upload Movies

Channels -	Movies •		Series 🔻	EPG 🔻
	Add Movie			
	Upload Movi	es		
Media Sc	Manage Mov	ies	Icon Path	
file://middleware/video	os/Sports/1.mp4	file://mi	ddleware/pictu	res/Sports/1.
file://middleware/video	file://middleware/videos/Kids/1.flv			res/Kids/1.jp

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

Upload Movies	
File : Choose Files No file chosen	
Upload	Cancel



# 2.4 Series Management

-	Users 🔻	Channels -	Movies 🕶	Series - Balancers -
				Add Series
				Manage Series
		Series Name ▲ ▼		Category ▲ ▼
	1	13 Reasons Why		IR SERIES
	2	ROMAN EMPIRE		Series2
	3	THE KOMISKY METH	IOD	IR SERIES
5	Showing 1 to 3 of	3 seriess		

oonoo at	4	Series Name :	new1
Category :	Series2	Season No. :	4
Rating :		Released Date :	12/12/2022
Icon Path :	file://media/picture	s/action/1.jpg	
	1234		
Description :			



## 2.5 EPG Management

nt DashBoard	Lusers 🕶	Channels 🗸	Movies 🕶	Series 🕶
		Add Channel		
EPG		Manage Channels		
Channel 1 🗸	2022 🗸	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.ezhometech.	.com/~karlo/iptv/epg	g.xmla	0	-	🔅 Management	•
System Setting: Max. Streaming No. System Log Lines	1000	]	Pagination Limit Number Admin. System Log Lines			User Agenet Blacklist	
Security Setting:						Statistics	
Alert Player Duration	0.001	0	Blacklist Option			Setting	API po
			Save				



### UDP Stream

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



1000

Admin. System Log Lines

0



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**

TRECOID by	DAILT
	ON
Stop Time	DAILY
	MONDAY
	TUESDAY
Icon URL	WEDNESDAY
	THURSDAY
	FRIDAY
	SATURDAY
	Stop Time



## 2.6 User Agent Management

Series - 👬 Balancers -	🏠 Management 🗸	
	User Agenet	
	Blacklist	
C	Statistics	ed Mode O Accepted Mode
No.	Player Name	
1	stagefright	
2	vlc(linux;)	
3	VLC6	Ē
4	NSPlayer	

New User Agent					
User Agent:					
Add	Cancel				



## 2.7 Reseller Management

<b>†</b> DashBoard	💄 Users 👻 📃	Channels 🕶	Movies 🕶	Series 🕶
	Add User			
Reseller	Manage Users			
No.	Add Group		Em	ail
1	Manage Groups		@gmai	il.com
2	Add Reseller		@gmai	il.com
3	Manage Decellers		1@gma	il.com
4	Manage Resellers		1@gma	iil.com
5	sr3		@gmai	il.com
6	sr4		@gmai	il.com

No.	7	Total Credit :	1000
Name :	susan	Password :	1234
Group	golden	Level:	Reseller 🗸
Expired Time :	12/31/2024	Email:	susa@gmail.com
Auto Renew			



### 2.8 Setting

**Enterprise Server** 

Ezserver		
fill Cotting	Save Multicasting Streaming Setting	I
Cos Setting	6. Multicast IP :	225.1.1.1
	7. Multicast port:	9001

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)

#### **Blockchain server**

Blockchain Setting **read-only** for Public Blockchain, Blockchain Setting **writable** for Private Blockchain.

			Blockcha	in Server C	Option
HTTPS Setting					
Panel port	19448	0	API port	17448	0
Streaming port	2448	0			
HTTP Setting					
Panel port	19008	0	API port	17908	0
Streaming port	9008	0			
Blockchain Setting					
Region	Europe	0	Group ID	19008	0
Channel Setting:					
Channel Input Buffer No.	8000	0	Channel Streaming Prebuffer N	2000	0
Channel Streaming Bitrate Tolerance	0	0	Channel Reconnection Interval	60	0
DVR Duration	60	0	MPEG EPG Extraction		
System Setting:					
Max. Streaming No.	1		Pagination Limit Number	20	0
System Log Lines	1	0	Admin. System Log Lines	1	0
Security Setting:					
Alert Player Duration	5.0	0	Blacklist Option		
			Save		

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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

n DashBe	oard	LUsers -	👸 Reseller 🗸	
			Add Subreseller	
User			Manage Subresell	ers
		User Name	Password	Group
	□ 1	e1	1304693446	basic 🗸
	□ <mark>2</mark>	e2	1304693446	basic 🗸
	3	e3	1304693446	basic 🖌
	□ <mark>4</mark>	e4	1304693446	basic 🖌

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

nt DashBo	bard	👱 Users 🗸		
		Add User		
User		Manage Users		
		User Name	Password	Gr
	□ <mark>1</mark>	rt51	9091880686	basic
	2	rt52	9091880686	basic
			·	



## **4 Supported Players**

### XCIPTV

Select Ezhometech API



• uses Ezserver API port (17000)



### **IPTV Smater**

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

TEST USER	
test	
••••	Q
/192.168.0.10:8	000
ADD USER	



### Mag STB

Use Ezserver API port (17000)

• Add Mag MAC ID into Ezserver IPTV Panel

User at	3		MAC Address	00:1A:A1:24:C8:C9
Password			Rating Password	3245087872
Group	basic	~	Level	User 🗸
Expired Time	1 month	~	Connection Limit	1
IP			Device Type	mag

Portal URL is <a href="http://domain:17000/c/index.htm">http://domain:17000/c/index.htm</a>

Portal URL	API port inste	ead of ort: 8000
http://192.168.0.101	/000/c/index.htm	
	CANCEL	ок



### **HTML5** Player

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

	HLS		
	EPG Channel ID	TV1	
Ezhometech(Ezserver/	Bitrate Tolerance	0	
0	Proxy Mode	0	~
107.0.0.1			
	Ezhometech(Ezserver/) 0	HLS EPG Channel ID Ezhometech(Ezserver/ Bitrate Tolerance 0 Proxy Mode	HLS       EPG Channel ID       TV1       Ezhometech(Ezserver/       Bitrate Tolerance       0       Proxy Mode       127.0.0.1

• Refer the below HTML codes

```
<!-- CSS -->
k 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	~		~
golden	~		~
golden	~	12.3	~
golden	~		~
golden	~	 Enigma	1
basic	~	Enigma 1.6 Enigma(RT)	MP)
basic	~	Enigma 1.6( Enigma(chn	RTMP) o)
golden	~	Enigma 1.6( Enigma(RT)	(chno) MP/chno)
golden	~	Enigma 1.6( m3u	RTMP/chno)
basic	~	m3u(getlink)	

Copy the URL to players



## 5.2 M3U8 List API

• Enable Channel HLS option

	HLS		
	EPG Channel ID	TV1	
Ezhometech(Ezserver/	Bitrate Tolerance	0	
0	Proxy Mode	0	v
127.0.0.1			
	Ezhometech(Ezserver/) 0	HLS EPG Channel ID Ezhometech(Ezserver/ Bitrate Tolerance 0 Proxy Mode	HLS TV1 EPG Channel ID TV1 Ezhometech(Ezserver/ Bitrate Tolerance 0 0 Proxy Mode 0

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

Channel List		Mo
m3u(chno with suffix) m3u(chname with suffix) m3u(RTMP) m3u8	•	
m3u8(getlink API) m3u8(No Encoded)		

Copy the URL to players



## 6 Other Panel to Ezserver

Migrate Xtream Users and Resllers to Ezserver

• Click management:Import Xtream DB button

-	ata Balancers →	🔅 Management 🗸	
		User Agent	
		Blacklist	
		Statistics	
2		Import Xtream DB	345
		Setting	Active Use

- Upload xtream\_iptvpro.sql
- Click Submit button

Import Xtream DB	
Local File :	Choose Files xtream_iptvpro.sql
Submit	Cancel



# 7 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



## 8 Blockchain Setting (for Web 3.0 only)

Web 3.0 Blockchain is a chain of your servers that has 2 node type, User node and Content nodes.

- User node : management user information. •
- **Content node** : It can be for channel or movie streaming.



### User Node (ex. www.imoviecity.com)

- ∻ Enable Main / Slave Node option
- ∻ Define Control port

∻

∻

∻



Main / Slave Node		
Main Node Domain Name / IP	www.imoviecity.com	0
Main Control port	17100	0

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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.

	ne 1001th connection ne of Europe servers	on requests CNN channel, s.	it will be fowraded t
On Demand		HLS	
Channel SID		EPG Channel ID	TV9
User Agent	Ezhometech(Ezse	rver Bitrate Tolerance	0.99
Catch Up Days	0	Proxy Mode	Disabled
Input Adapter	127.0.0.1	✓ AES Encryption	
Blockchain Region	Europe	Blockchain Group ID	18097
2nd URL			
3rd URL			



### 9 Ezserver Multicast (for Web 2.0 only)

Ezserver Multicast is for local network users that plays channels, movies and series from Ezserver.

Features:

- Save Server Bandwidth
- TV, Movie and Series
- EPG and Catch up TV
- Parent Control of adult content
- 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+

#### **Panel Setting**

• Set Multicast output IP and Port

Ezserver		
	Save	
<ol> <li>Setting</li> </ol>	Multicasting Streaming Setting	g:
	7. Multicast port:	9001

#### **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)



## 10 Work Folder (for Web 2.0 only)

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



Server Name	BL1	~
Folder Type	Movie	~
Selected path	media/videos/upload	
Enabled		