



Ezserver IPTV Panel Pro Tutorial

Support Reseller and Load Balancing

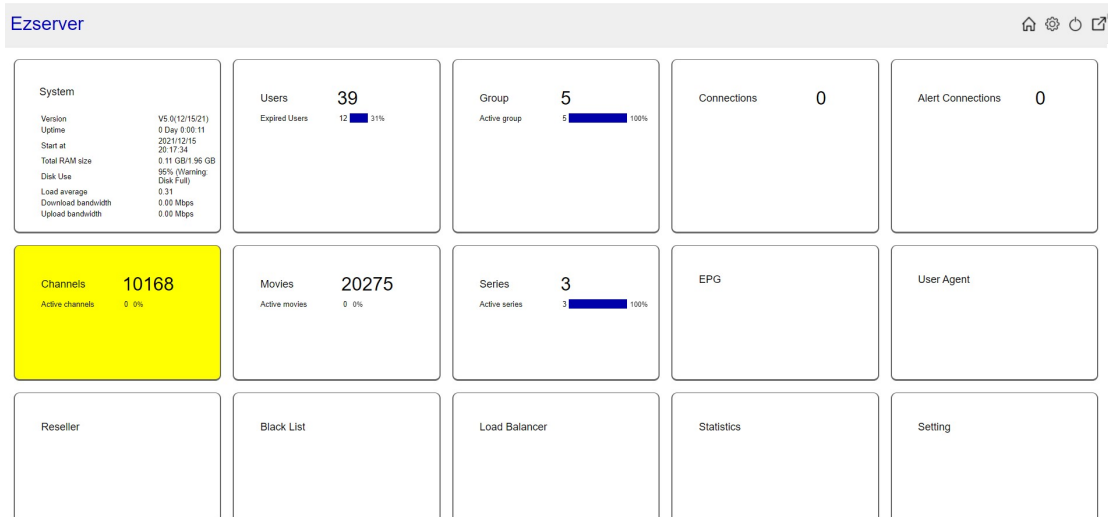
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1 Overview of Ezhometech IPTV Panel Pro

Ezhometech IPTV Panel Pro powered by Ezserver is a Panel to add users, channels, movies and series.



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.

Streaming server:

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

API has 2 types that are for cloud or app software developers.

2. **Panel REST API** provides API for Cloud applications
3. **Player REST API** provides API for App in mobile, STB and PC.

Hardware Requirement:

- **Min. Requirement:** Dual-Core, 8GB RAM, 1GB Network card.
- **More at** http://www.ezhometech.com/html/ezserver_user_guide.html#Hardware%20requirement

Software Requirement:

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

Support P2P Players:

- IPTV Smarter, IPTV Extreme, GSE Smarter IPTV, IPTV

Support IPTV Players:

- IPTV Smarter, XCIPTV, MAG, STBEmu, VLC
- EZ API players
- Ezserver getlink API
- HTML5
- M3U compatible players
- XC API compatible players

1.1 Related Information

Ezserver Forum:

<https://ezserver.createaforum.com/>

Ezserver Panel REST API website

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

Ezserver Player REST API website:

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

Ezserver User Guide website:

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

Ezserver Linux Installation

https://youtu.be/MIZGY_zqd9g

2 Installation and 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 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.

3 Start / Restart / Shutdown

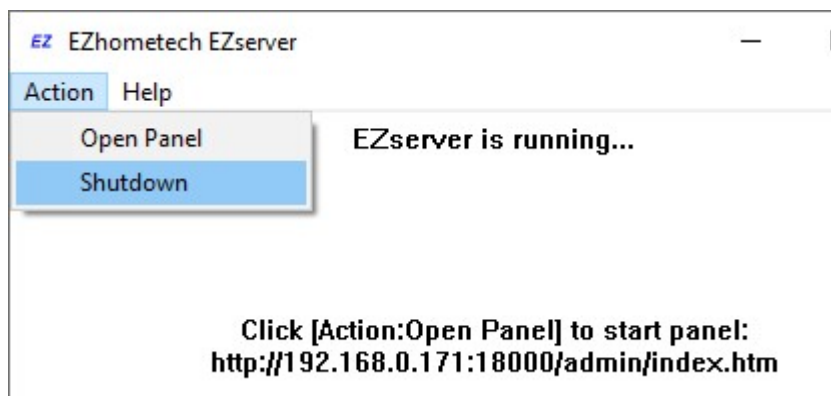
Windows version:

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



wait 30~60 seconds to relogin panel.

- Shutdown:



Linux: ezserver at /home/ezserver_enterprise folder

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

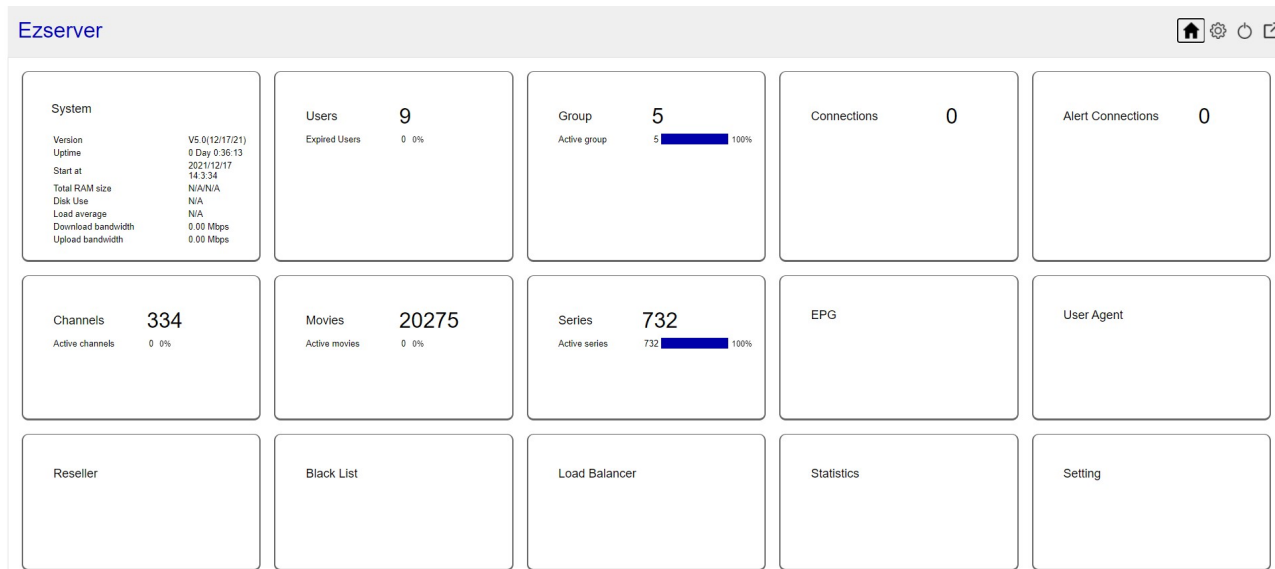


wait 30~60 seconds to relogin panel.

- Shutdown:
 - ✧ `cd /home/ezserver_enterprise`
 - ✧ `./shutdown.sh`

4 Administrator Panel

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



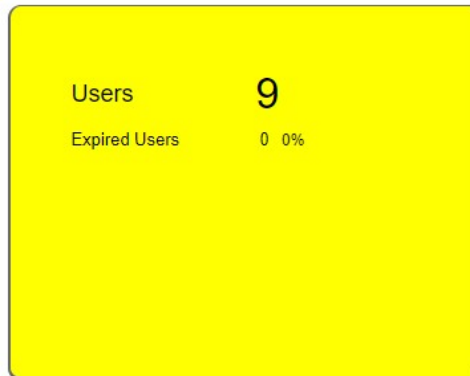
- **User management:** create, modify and delete users.
- **Group management:** create, modify and delete groups.
- **Channel management:** create, modify, delete or import channels.
- **Movies management:** create, modify, delete or import movies.
- **Series management:** create series.
- **EPG management:**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

Tips:

Use **http:// domain:port** instead of **http:// domain:port/admin/index.htm** in Chrome

```
. open ezserver_config.txt
. replace startmenu=index.htm by startmenu=admin/index.htm
. open admin/index.htm
. replace <script src="menubar.js"></script> by <script src="admin/menubar.js"></script>
. replace <script src="menu.js"></script> by <script src="admin/menu.js"></script>
. restart ezserver
```

5 User Management



Ezserver User														
Back	☐	User ID ▲▼	Password	Group ▲▼	Channel List	Movie / Series List	Expired Time ▲▼	Authentication IP	Authentication MAC ID	Owner				
Add User	☐	1	root	1234	golden	--	--	12/31/2030						
Mass Edit Users	☐	2	r1	1234	golden	--	--	12/31/2024						
Del Users	☐	3	r2	1234	golden	--	--	12/31/2024						
Cut Users	☐	4	r3	1234	golden	--	--	12/31/2024						
Export Users	☐	5	r4	1234	golden	--	--	12/31/2024						
Expired Users	☐	6	r5	1234	golden	--	--	12/31/2024						
Setting	☐	7	s1	1234	golden	--	--	12/31/2024						
	☐	8	s2	1234	golden	--	--	12/31/2024						
	☐	9	s3	1234	golden	--	--	12/31/2024						

Showing 1 to 9 of 9 users

New User

User at	10	User Name	
Password	4068279888	Rating Password	4068279888
Group	basic	Level	User
Expired Time	1 month	Connection Limit	1
IP		MAC ID	

Add new user with MAC ID

New User

if mac id is 00:11:22:33:44:55
then input 001122334455

User at	10	User Name	
Password	4068279888	Rating Password	4068279888
Group	basic	Level	User
Expired Time	1 month	Connection Limit	1
IP		MAC ID	001122334455

6 Channel Management

Channels **334**

Active channels 0 0%

Ezserver

Channel

Back

Channel Category

Add Channel

Mass Edit Channel

Del Channel

Cut Channel

Refresh Channel

Import Channel

Export Channel

Off Channel

Channel Name ▼

Media Source

Icon Path

Category ▼

Type

Status

Bitrate(Kbps)

1

TV1

http://streamking.dvdrns.org/25461/Fran

file://media/pictures/News/1.j

BEIN ENTERTAINMI

Live

COD

0

2

TV2

udp://224.1.1.1:9001

BEIN ENTERTAINMI

Live

COD

0

3

BEIN SPORTS NBA

http://live.igtv-ksa.com/80/34234523432/

http://bl3rbe.net/up/W9q5eE

TELECOM VIP

Live

COD

0

4

Bein Sport News 4k

http://live.igtv-ksa.com/80/34234523432/

http://bl3rbe.net/up/W9q5eE

BEIN SPORT 4K

Live

COD

0

5

BEIN SPORTS 1 4k

http://live.igtv-ksa.com/80/34234523432/

http://bl3rbe.net/up/W9q5eE

BEIN SPORT 4K

Live

COD

0

6

BEIN SPORTS GLOBAL 4k

http://live.igtv-ksa.com/80/34234523432/

http://bl3rbe.net/up/W9q5eE

BEIN SPORT 4K

Live

COD

0

7

BEIN SPORTS 1 4k+

http://live.igtv-ksa.com/80/34234523432/

http://bl3rbe.net/up/W9q5eE

BEIN SPORT 4K

Live

COD

0

8

BEIN SPORTS 2 4k

http://live.igtv-ksa.com/80/34234523432/

http://bl3rbe.net/up/W9q5eE

BEIN SPORT 4K

Live

COD

0

9

BEIN SPORTS 2 4k+

http://live.igtv-ksa.com/80/34234523432/

http://bl3rbe.net/up/W9q5eE

BEIN SPORT 4K

Live

COD

0

New Channel

Channel at
Channel Name :

Media Source :

Icon Path :

Category :
Type :

Live
Live
Movie
DVR
Inactive
Delay 5 sec.
Delay 10 sec.
Delay 20 sec.

TV1

On Demand	☒	HLS	☐
Channel SID		EPG Channel ID	TV1
User Agent	Ezhometech(Ezserver/	Bitrate Tolerance	
Catch Up Days	0	Proxy Mode	0 ▼
Input Adapter	127.0.0.1 ▼	AES Encryption	☒
2nd URL			
3rd URL			

7 Movie Management

Movies 20275

Active movies 0 0%

Ezserver

Movie

New Movie

Movie at

Movie Name

☒ File
☐ Folder

Category
 ▼
Recursive Folder :
☐

Rent Point
Buy Point

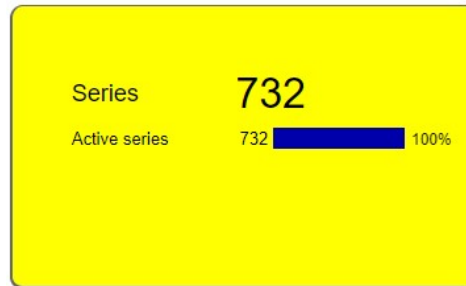
Media Source :

Icon Path :

8 Remains (2018) [GR]

Rent Point	0.00	Buy Point	0.00
Rent Period	0	Ratings	No Protection
Video Quality	HD	Proxy	0
			0
			1
Description			
Save		Cancel	

8 Series Managment



Ezserver Series

	Series Name ▲▼	Category ▲▼	Season no.	Episode	Released Date
☐	1 (Deslencando)	ANIMES - DESENHOS	3	30	
☐	2 1 Contra Todos	SERIES: 1 Contra Todos	4	32	
☐	3 100 Humanos	SERIES: 100 Humanos	1	8	
☐	4 13 Reasons Why	SERIES: 13 REASONS WHY	3	40	
☐	5 200	FILMES: INFANTIL	6	1	12/2/21
☐	6 22-11-63	SERIES: 11-22-63	2	8	
☐	7 220 Volts	SERIES: 220 Volts	4	52	
☐	8 24 Horas	24 HORAS	5	120	
☐	9 3x	SERIES: 3x	3	26	
☐	10 44 Gatos	SERIES: 44 Gatti	1	52	
☐	11 5x Comédia	SERIES: 2021	1	5	
☐	12 7SEEDS	SERIES: 7SEEDS	5	24	
☐	13 8 Dias	SERIES: 8 Dias	1	8	
☐	14 9-1-1: Lone Star	SERIES: 9-1-1: Lone Star	3	40	
☐	15 A Bela e a Fera	SERIES: A Bela e a Fera	4	20	

Showing 1 to 15 of 732 series

First < 01 02 03 04 05 06 07 08 09 10 > Last

New Series

Series at:

Category:

Rating:

Icon Path:

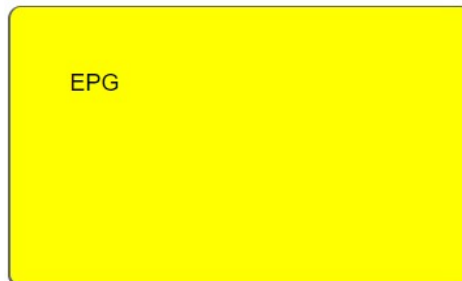
Series Name:

Season No.:

Released Date:

Description:

9 EPG Management



Ezserver
EPG
⌂ ⚙ ⏰ 🔗

Back
Add Program
Refresh

Channel
1
2021
12
Query

No.	Start Time	Stop Time	Program Title	Program Description	Record Icon Path	Record	
1	00:00	01:00	ez1			SATURDAY	📄 🗑
2	01:00	02:00	ez2			TUESDAY	📄 🗑
3	01:00	03:00	ez3			WEDNESDAY	📄 🗑
4	01:00	02:00	ez4			THURSDAY	📄 🗑
5	01:00	02:00	ez5			DAILY	📄 🗑
6	01:00	02:00	ez6	1234	http	SATURDAY	📄 🗑
7	01:00	02:00	ez7			SUNDAY	📄 🗑
8	01:00	02:00	ez8			MONDAY	📄 🗑
9	00:00	01:00	ez9			TUESDAY	📄 🗑

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

Ezserver
Setting

Back

DVR Duration

60

ⓘ

MPEG EPG Extractionⓘ

XMLTV EPG URL http://www.ezhometech.com/~karlo/iptv/epg.xml
ⓘ

Save

UDP Stream

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

☐	Channel Name ▲ ▼	Media Source	
☐	1 Euronews	udp://239.0.0.4:1234	[
☐	2 Eurosport	udp://239.0.0.5:1234	[
☐	3 HSE24 Extra	udp://239.0.0.6:1234	[
☐	4 Kabel 1	udp://239.0.0.8:1234	[

Ezserver

Setting

[Back](#)

DVR Duration



MPEG EPG Extraction



XMLTV EPG URL



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.	1	Record by	DAILY ▾ ON DAILY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY SUNDAY OFF
Start Time	18:00	Stop Time	
Title		Icon URL	
Description			
Add		Cancel	

10 User Agent Managment

User Agent

Back

Add

Refresh

☐ Disabled Mode ☒ Rejected Mode ☐ Accepted Mode

No.	Player Name	
1	stagefright	
2	vlc(linux:)	
3	VLC6	
4	NSPlayer	
5	VLC9899	

New User Agent

User Agent:

Add

Cancel

11 Reseller Managment

Reseller

Ezserver		Reseller							
Back	No.	Name	Email	Credit Balance	Users	Type	Creator		
Add Reseller	1	r1	r1@gmail.com	100	0	Reseller	root		
	2	r2	r2@gmail.com	100	0	Reseller	root		
	3	r3	r3@gmail.com	100	0	Reseller	root		
	4	r4	r4@gmail.com	100	0	Reseller	root		
	5	r5	r5@gmail.com	100	0	Reseller	root		
	6	s1	s1@gmail.com	1000	0	Super Reseller	root		
	7	s2	s2@gmail.com	1000	0	Super Reseller	root		
	8	s3	s3@gmail.com	1000	0	Super Reseller	root		

New Reseller

No.	9	Total Credit :	
Name :		Password :	
Group	basic	Level:	Reseller
Expired Time :	MM/DD/YYYY	Email:	@gmail.com
Auto Renew	OFF		
Add		Cancel	

11 Load Balancer

Load Balancer

Ezserver

Load Balancer

Back

Add BL

Refresh

Disabled

By Geo. Location

By Max. Streaming No.

No

Slave Server Name

Admin Name

Password

Domain Name

IP

Panel Port

Country

Max Connection

Free Connection

Status

1

BL2

root

1234

192.168.0.71

17000

TW

0

0

OFF

2

BL1

root

1234

192.168.0.73

17000

TW

0

0

OFF

3

BL3

root

1234

www.ezhometel

192.168.0.73

17000

TW

0

0

OFF

New Balancer

Slaver Name:		Admin. Name:	
Password:		Domain:	
IP:		Panel port:	
Country:			

Add

Cancel

12 Setting

Setting

Setting

Unicast Streaming Setting

Panel port	18000	API port	17000
HTTP port	8000	RTMP port	1935

Multicasting Streaming Setting

Multicast Output IP	0.0.0.0	Multicast Output Port	9000
---------------------	--------------------------------------	-----------------------	-----------------------------------

P2P Streaming Setting:



P2P Cmd Port	17030	P2P Data Port	17040
--------------	------------------------------------	---------------	------------------------------------

Channel Setting:

Channel Input Buffer No.	8000	Channel Streaming Prebuffer No.	2000
Channel Streaming Bitrate Tolerance	0	Channel Reconnection Interval	60
DVR Duration	60	MPEG EPG Extraction	☒
XMLTV EPG URL			

System Setting:

Max. Streaming No.	3000	Pagination Limit Number	20
System Log Lines	1000	Admin. System Log Lines	1000

Security Setting:

Alert Player Duration	5.0	Blacklist Option	☒
-----------------------	----------------------------------	------------------	-------------------------------------

Save

13 Reseller Panel

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

Ezserver Credit Balance: 978

Users Search 20

[+ Add User](#)
[- Delete Users](#)

		User Name	Password	Group	CH List	Movie List	Expired Time	IP	MAC ID	Reseller	
☐	1	r11	38384310	basic	--	--	30			r1	
☐	2	r12	38384310	basic	--	--	30			r1	
☐	3	r13	38384310	basic	--	--	30			r1	
☐	4	r14	38384310	basic	--	--	30			r1	
☐	5	r15	38384310	basic	--	--	30			r1	
☐	6	r16	38384310	basic	--	--	30			r1	
☐	7	r17	38384310	basic	--	--	30			r1	
☐	8	r18	38384310	basic	--	--	30			r1	
☐	9	r19	38384310	basic	--	--	30			r1	
☐	10	r20	38384310	basic	--	--	30			r1	
☐	11	r21	38384310	basic	--	--	30			r1	

Showing 1 to 11 of 11 users

- **User management:** create, modify and delete users.

✧ Add User

New User

r22 Added

User at	13	User Name	
Password	8385555446	Rating Password	8385555446
Group	basic	Level	User
Expired Time	4 month		
IP		MAC ID	

[Add Next](#) [Cancel](#)

✧ Modify User

r11

First Name		Last Name	
Rating Password	38384310	Level:	User
Connection Limit	1	Connections	0
IP 2		IP 3	
IP 4		IP 5	
ISP Lock	OFF	Email:	
Mobile Phone		WhatsApp	
Adress		City:	
ZIP		Home Tel	

[Save](#) [Cancel](#)

- **Reseller management: Super reseller** can create, modify and delete Reseller

Ezserver		Credit Balance: 700						
Users Reseller + Add Reseller	No.	Name	Email	Credit Balance	Users	Type	Creator	
	1	r22	bbc@gmail.com	100	0	Reseller	r3	 
	2	r23	2@gmail.com	100	0	Reseller	r3	 
	3	r24	2@gmail.com	100	0	Reseller	r3	 

✧ Add Reseller

New Reseller

r22 Added

No.	2	Total Credit :	100
Name :		Password :	1234
Group	basic	Level:	Reseller
Expired Time :	12/31/2024	Email:	2@gmail.com
Auto Renew	OFF		
Add Next		Cancel	

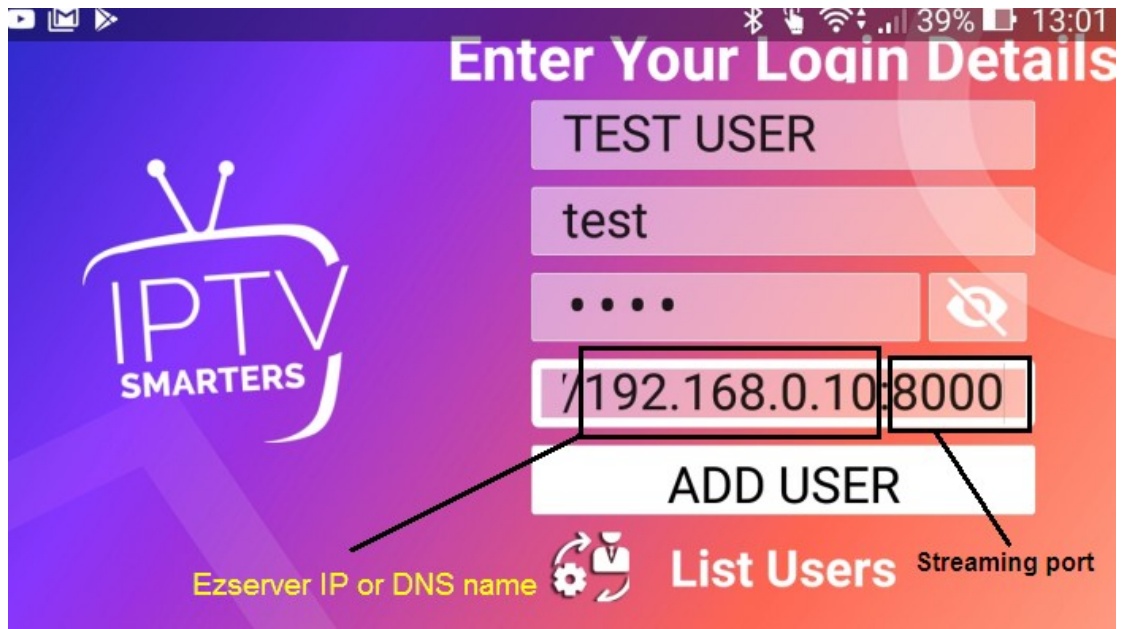
- Modify Reseller

Update Reseller

No.	2	Total Credit :	100
Name :	r23	Password :	1234
Group	basic	Level:	Reseller
Expired Time :	12/31/2024	Email:	2@gmail.com
Auto Renew	OFF		
Save		Cancel	

14 Supported Players

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



VLC

- Login Panel: User menu to select a users Channel List option
- Copy the URL into VLC

Group▲▼	Channel List	Movie / Series List	Expi
golden ▼	-- ▼	-- ▼	12/
golden ▼	-- ▼	-- ▼	12/
golden ▼	--	-- ▼	12/
golden ▼	Enigma	-- ▼	12/
golden ▼	Enigma 1.6	-- ▼	12/
golden ▼	Enigma(RTMP)	-- ▼	12/
golden ▼	Enigma 1.6(RTMP)	-- ▼	12/
golden ▼	Enigma(chno)	-- ▼	12/
golden ▼	Enigma 1.6(chno)	-- ▼	12/
golden ▼	Enigma(RTMP/chno)	-- ▼	12/
golden ▼	Enigma 1.6(RTMP/chno)	-- ▼	12/
	m3u		
	m3u(getlink)		
	m3u(get.php)		
	getxmltv		
	m3u (No Encoded)		

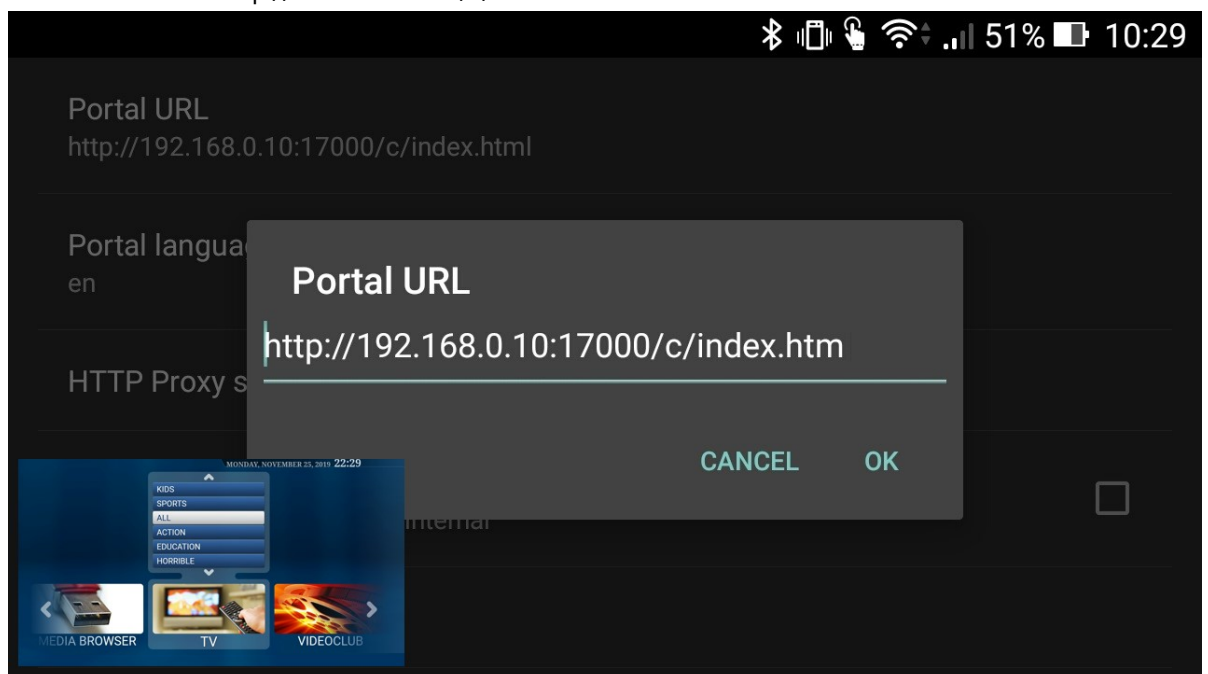
Mag STB and STBEmu use Ezserver API port (17000)

- Add Mag MAC ID into Ezserver IPTV Panel

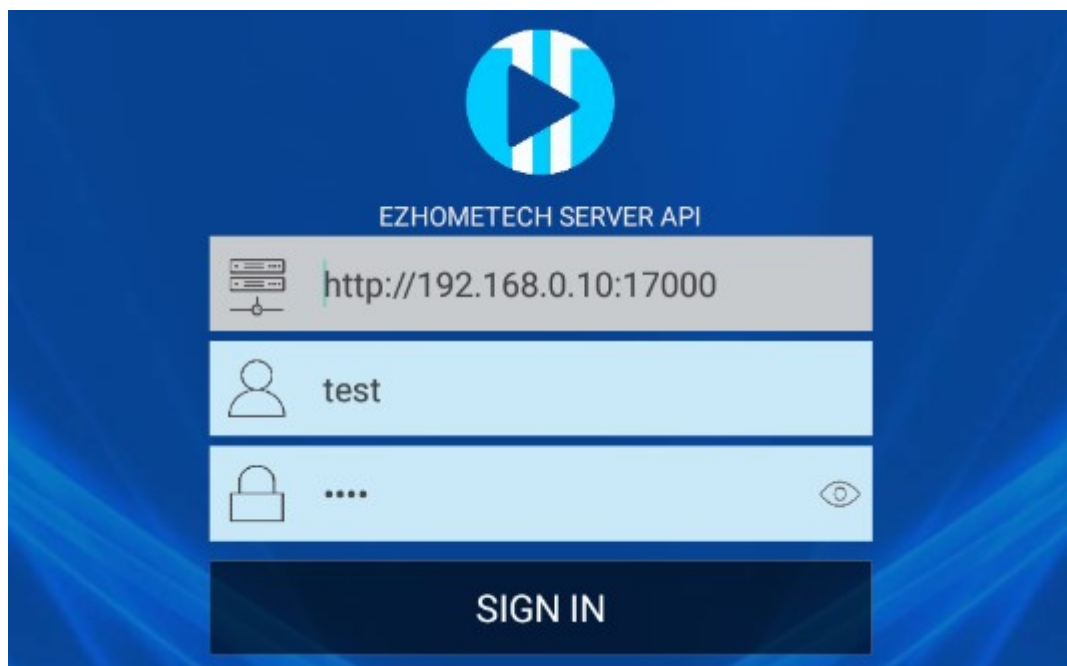
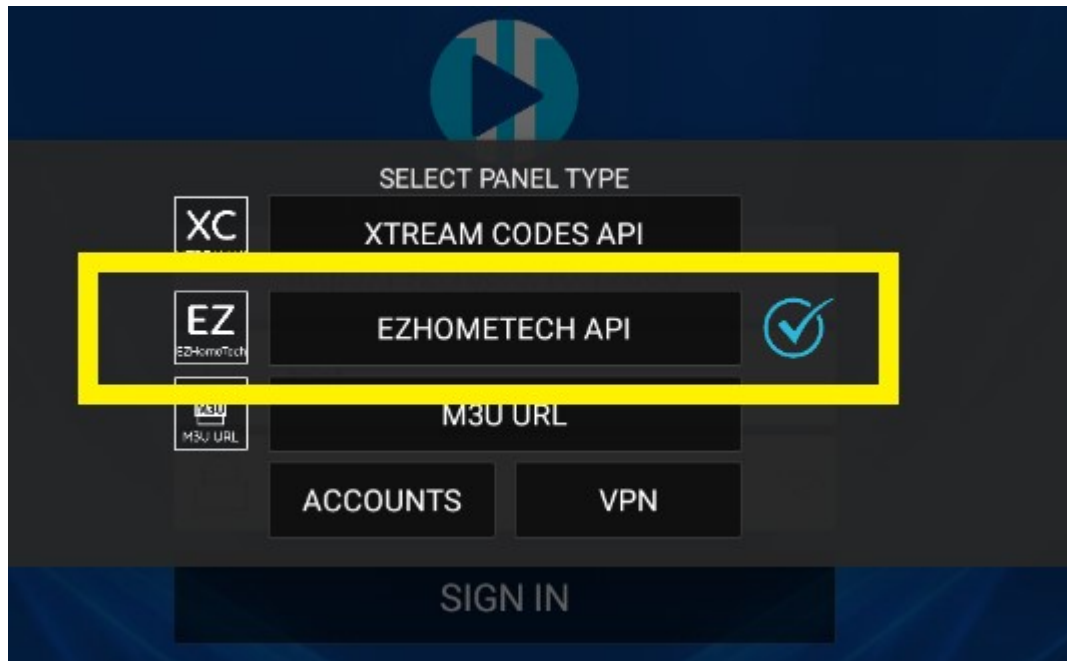
New User **Keep Password Empty and MAC ID is mag**

User at	7	User Name	00:1A:79:24:C8:C0
Password		Rating Password	
Group	basic	Level	User
Expired Time	3 month	Connection Limit	1
IP		MAC ID	mag

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



XCIPTV uses Ezserver API port (17000)



HTML5

- Add Access-Control-Allow-Origin=* into ezserver_config.txt
- Enable Channel HLS option

TV1

On Demand ☐

HLS ☒

Channel SID

EPG Channel ID

User Agent

Bitrate Tolerance

Catch Up Days

Proxy Mode

Input Adapter

2nd URL

3rd URL

Save

Cancel

- 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>

```

HLS output by getlink API

- Enable Channel HLS option

TV1

On Demand ☐
HLS ☒

Channel SID
EPG Channel ID

User Agent
Bitrate Tolerance

Catch Up Days
Proxy Mode

Input Adapter

2nd URL

3rd URL

- Go to User menu

Ezserver
User

☐	User ID ▲▼	Password	Group ▲▼	Channel List
☐ 1	root	1234	golden	--
☐ 2	test	1234	golden	m3u8(getlink API)

- 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