How to integrated MikroTik Login Hotspot With Social Media

By : Teddy Yuliswar

Cambodia, April 24, 2017

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- **Teddy Yuliswar**
- Using Mikrotik Since RouterOS 2.97 (2008)
- MTCNA, MTCRE, MTCTCE,MTCWE, MTCUME MTCINE,MTCIPv6E
- Mikrotik Certified Trainer since October 2016 (Dubai)
- https://mikrotik.com/training/centers/asia/indonesia
- Mikrotik Certified Consultant Indonesia
- https://mikrotik.com/consultants/
- Mikrotik Academy Coordinator
- https://mikrotik.com/training/academy/asia/indonesia

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What is the Internet ?

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The Internet :

the global system of interconnected computer networks that use the Internet protocol suite (TCP/IP) to link devices worldwide.

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It is a *network of networks* that consists of private, public, academic, business, and government networks of local to global scope, linked by a broad array of electronic, wireless, and optical networking technologies.

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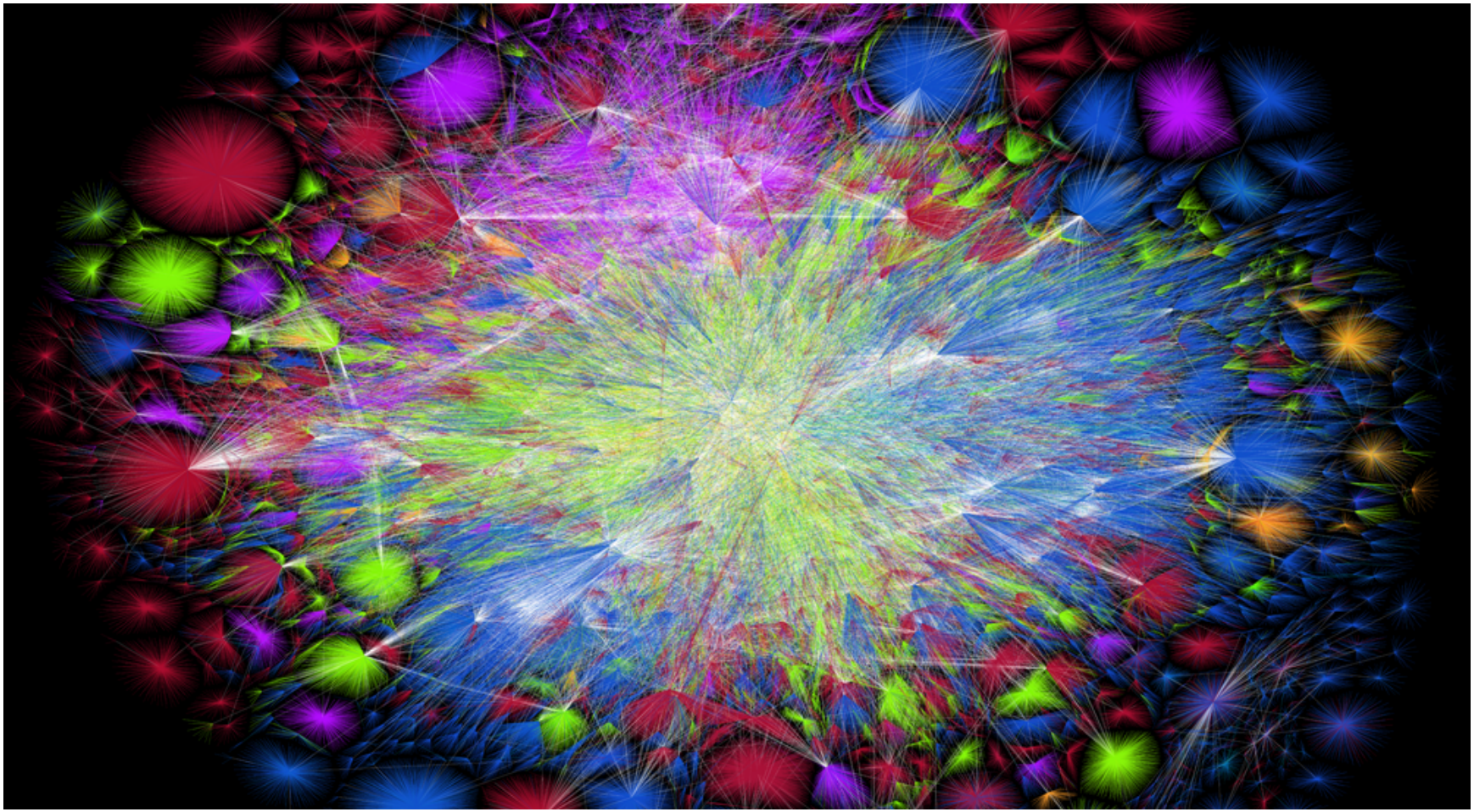
Opte Project (www.opte.org)



A Project visualization of routing paths through a portion of the Internet.

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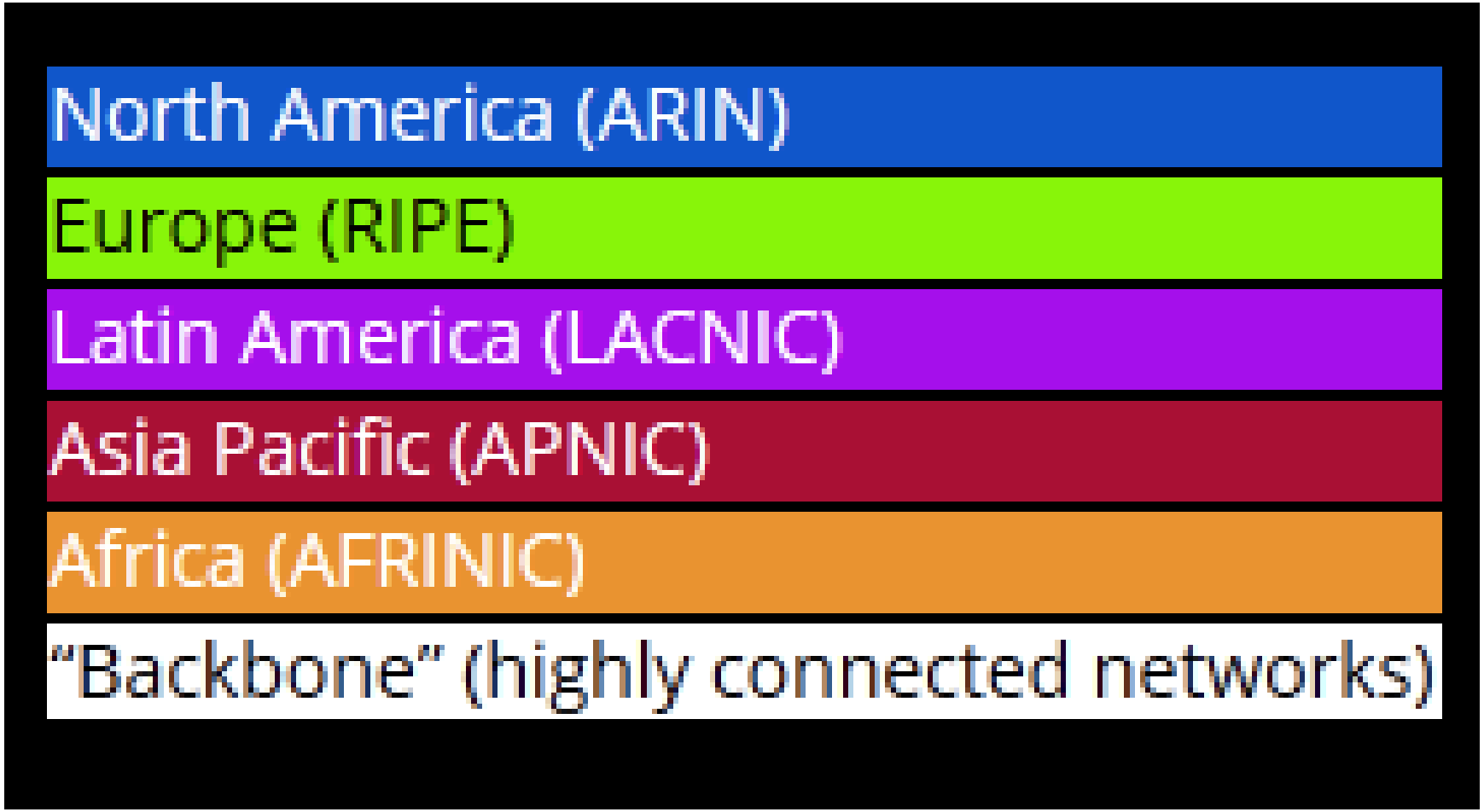

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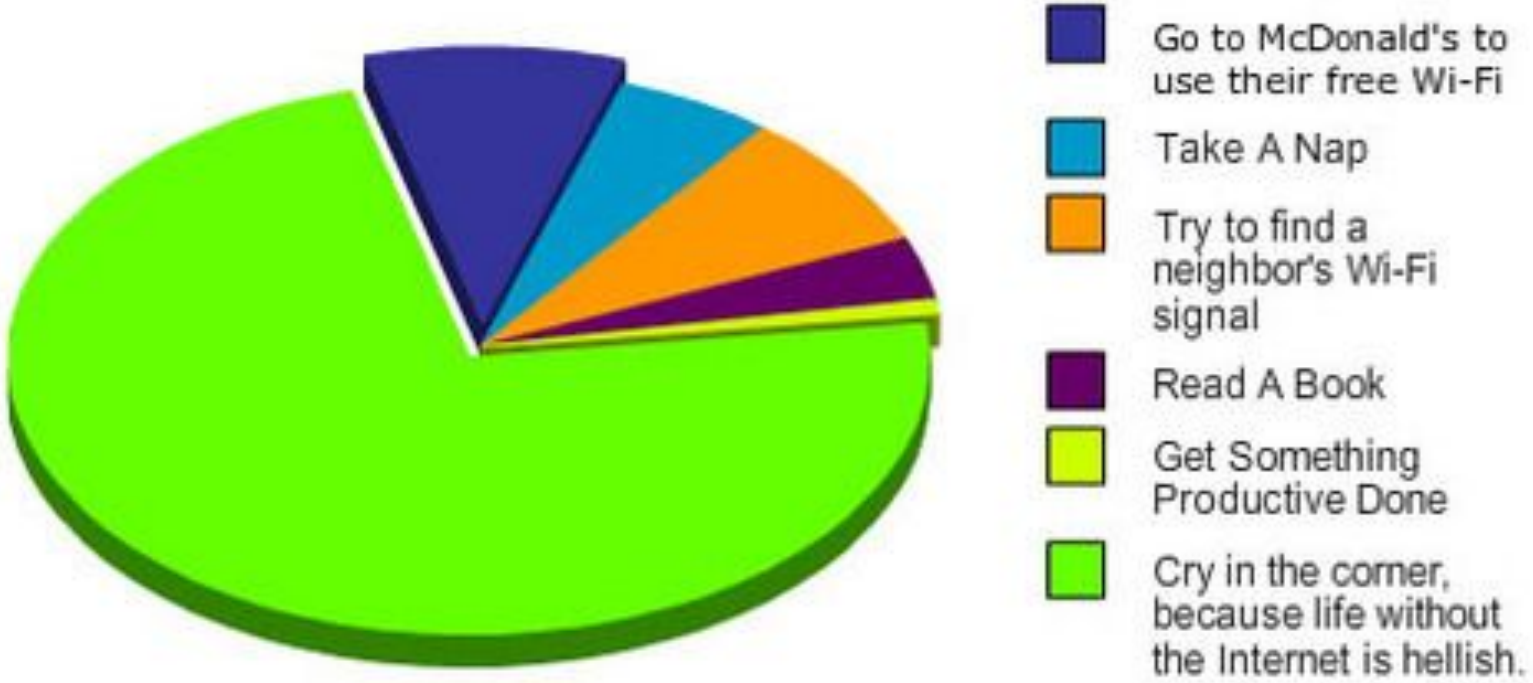
Things to Do Without Access To The Internet



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The Top 20
Popular Websites in The World

WIKIPEDIA

List of websites

Site	Domain	Alexa top 100 global websites (As of April 3, 2017)[3]	SimilarWeb top 100 websites (As of February 2017)[4]	Type	Principal country
Google	google.com	1	1	Internet services and products	U.S.
YouTube	youtube.com	2	3	Video sharing	U.S.
Facebook	facebook.com	3	2	Social network	U.S.
Baidu	baidu.com	4	12	Search engine	China
Wikipedia	wikipedia.org	5	5	Encyclopedia	U.S.
Yahoo!	yahoo.com	6	4	Portal and media	U.S.
Reddit	reddit.com	7	29	Social news and entertainment	U.S.
Google India	google.co.in	8	10	Search engine	India
Tencent QQ	qq.com	9	39	Portal	China
Taobao	taobao.com	10	66	Online shopping	China
Amazon	amazon.com	11	14	E-commerce and cloud computing	U.S.
Tmall	tmall.com	12	74	Online shopping	China
Twitter	twitter.com	13	6	Social network	U.S.
Google Japan	google.co.jp	14	19	Search engine	Japan
Sohu	sohu.com	15	204	Portal	China
Windows Live	live.com	16	7	Software plus services	U.S.
VK	vk.com	17	11	Social network	Russia
Instagram	instagram.com	18	16	Photo sharing and social media	U.S.
Sina Corp	sina.com.cn	19	110	Portal and instant messaging	China
360 Safeguard	360.cn	20	85	Internet security software	China

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What is Social Media?

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What is Social Media?

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Social media are computer-mediated technologies that facilitate the creation and sharing of information, ideas, career interests and other forms of expression via virtual communities and networks.

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Login Hotspot

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A hotspot is a physical location where people may obtain Internet access, typically using Wi-Fi technology, via a wireless local area network (WLAN) using a router connected to an internet service provider.

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MikroTik Login Hotspot

Gateway provides authentication for clients before access to public networks Commonly called “captive portal” can running in **wireless networks** or **wire networks**.

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MikroTiK HotSpot gateway Features :

- Different authentication methods of clients using local client database on the router, or remote RADIUS server;
- Users accounting in local database on the router, or on remote RADIUS server;
- Walled-garden system, access to some web pages without authorization;
- Login page modification, where you can put information about the company;
- Automatic and transparent change any IP address of a client to a valid address;
-

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The Advantages Integrated Mikrotik Login Hotspot with social media

1. For examples if we Integrated Mikrotik Login Hotspot with social media in a cafe or hotel, we can analysing genders and ages of the visitor, so we can make a decision about event , promotion or menu of meal etc.
2. If we Integrated Mikrotik Login Hotspot with social media in a public area, we also can make data mining for political support, like election or etc.
3. Everyone MUST used a valid email for registration in social media, so it very important for sent a promotion via email to visitor, sometimes if we give a registration form they write random email and sometimes not valid.
4. And many other advantages based on the purpose for whom used this service.

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Social Media Mining

Social media "mining" is a type of data mining, a technique of analyzing data to detect patterns. Social media mining is a process of representing, analyzing, and extracting actionable patterns from data collected from people's activities on social media.

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Integrated MikroTik Login Hotspot With Social Media ?

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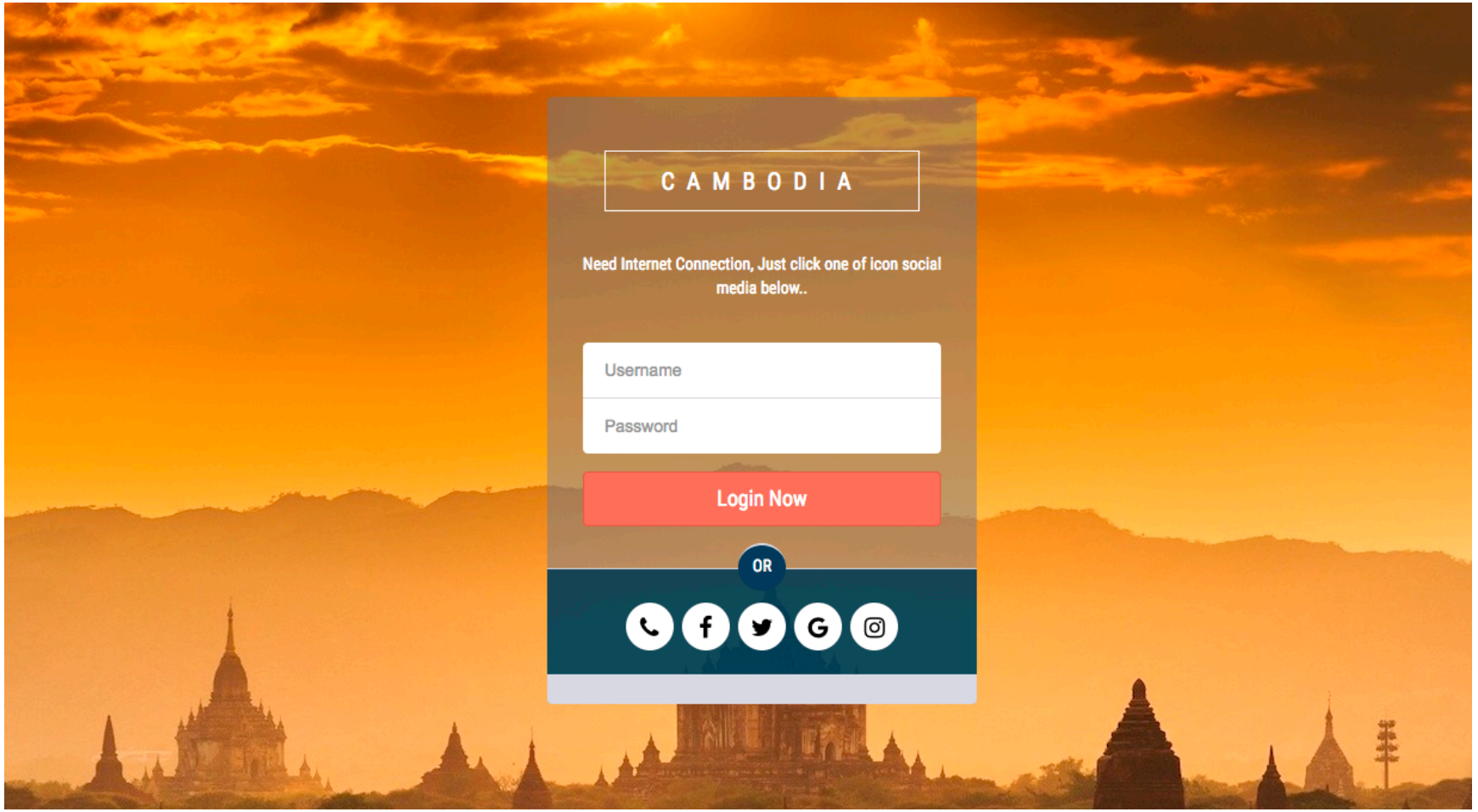
We are developed a web-based application using PHP and Mikrotik API. Social login, also known as social sign-in, is a form of single sign-on using existing login information from a social networking service such as Facebook, Twitter or Google+ to sign into a third party website instead of creating a new login account specifically for that website.

Login Form Mikrotik HotSpot with social media



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Step by Step Integrated Mikrotik Login Hotspot with social media

System Requiredment

- Mikrotik RouterOS v6.x.x.
- Mikrotik Router can be accessed from outside the network (with ip public or dynamic DNS or port forward from tunnel service)
- Web Server minimum PHP v5.4.x or more.
- PHP mbstring extension already installed.
- Web Server Support mail sending

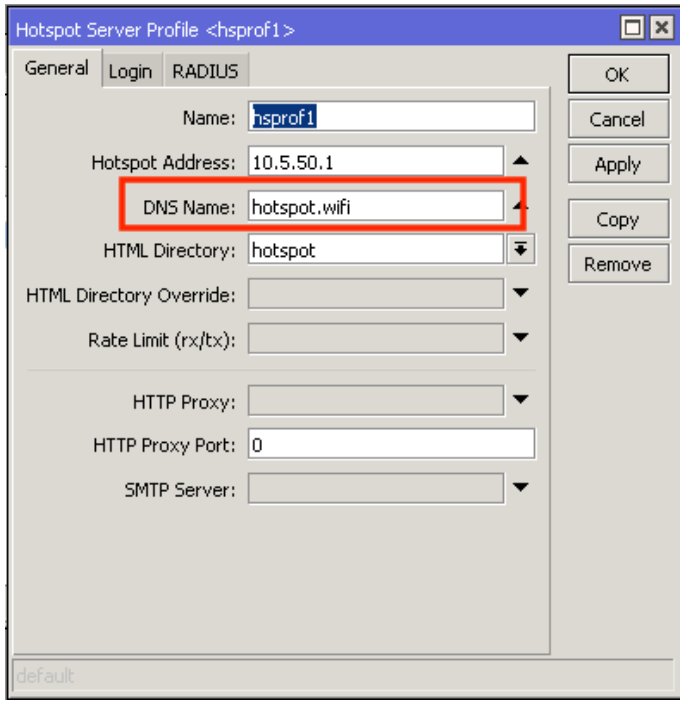
Step by Step Integrated Mikrotik Login Hotspot with social media

- **Uploading via FTP to Web Server**
- **Import Database**
- Open file config.php in folder inc and change

```
$my_user = 'your_user_databse';    // DB USER
$my_password = 'your_password_database';   // DB PASSWORD
$my_db = 'your_datanase_name'; // DB NAME
```

Step by Step Integrated Mikrotik Login Hotspot with social media

- Open application in your browser,
- Open setting menu, enter Dns Name Hotspot Mikrotik is url login hotspot mikrotik or gateway hotspot mikrotik,(open mikrotik via winbox go to menu ip > hotspot > server profile



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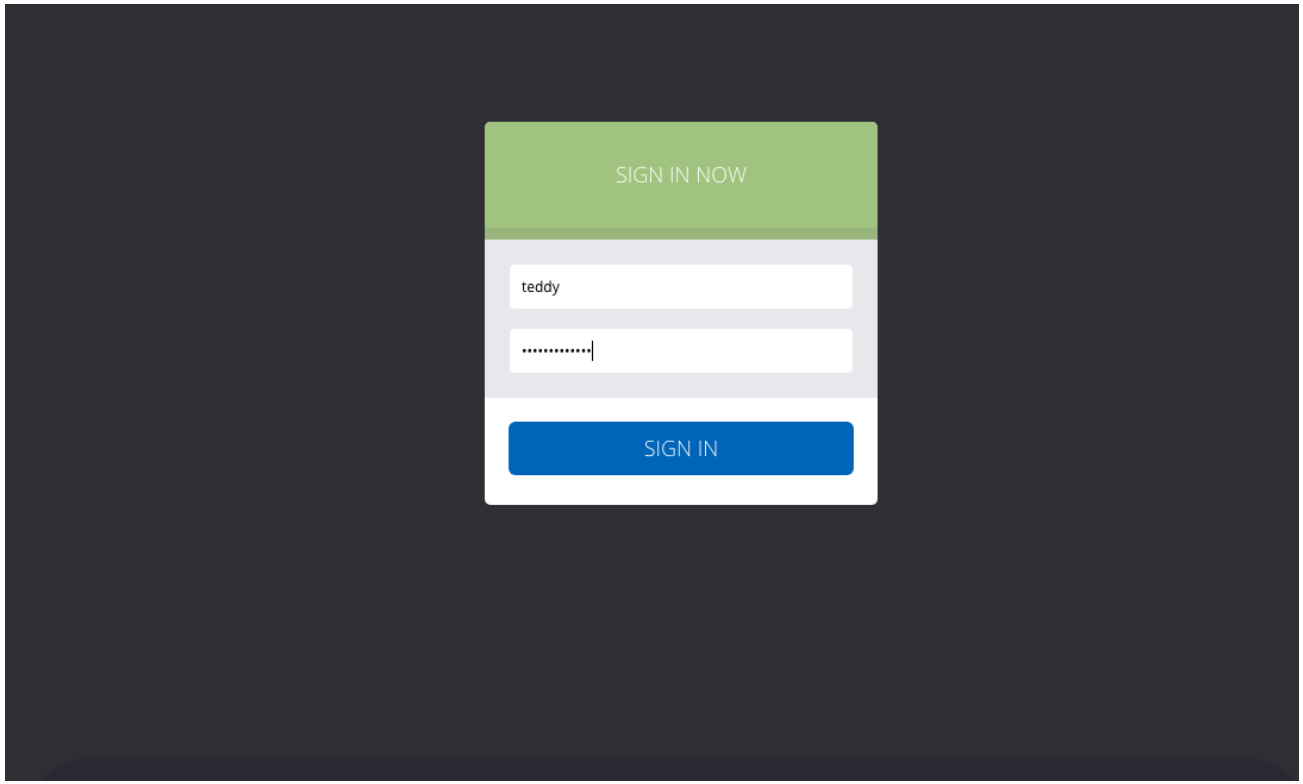
- Login Admin area



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- Dashboard

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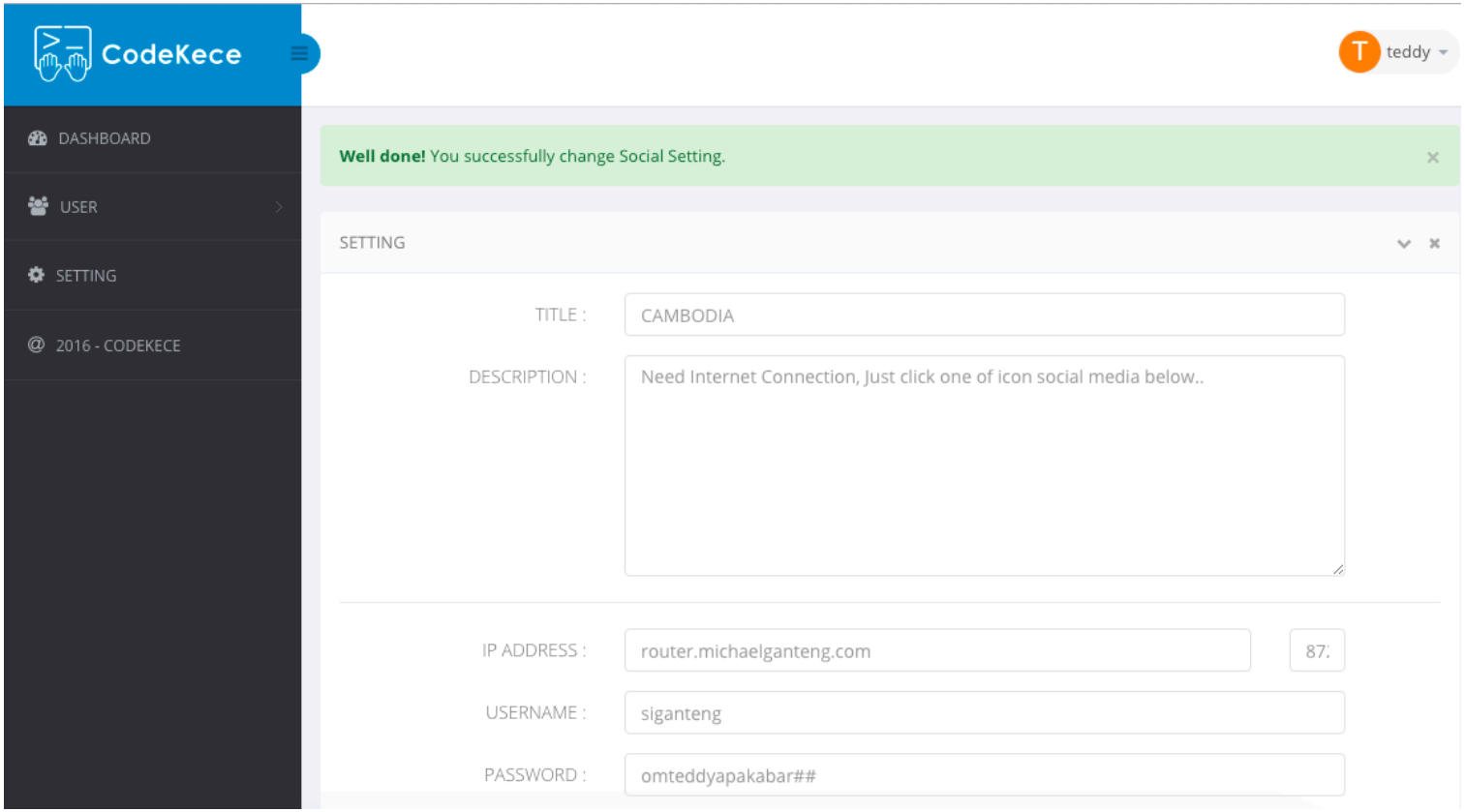
- Sosial Setting



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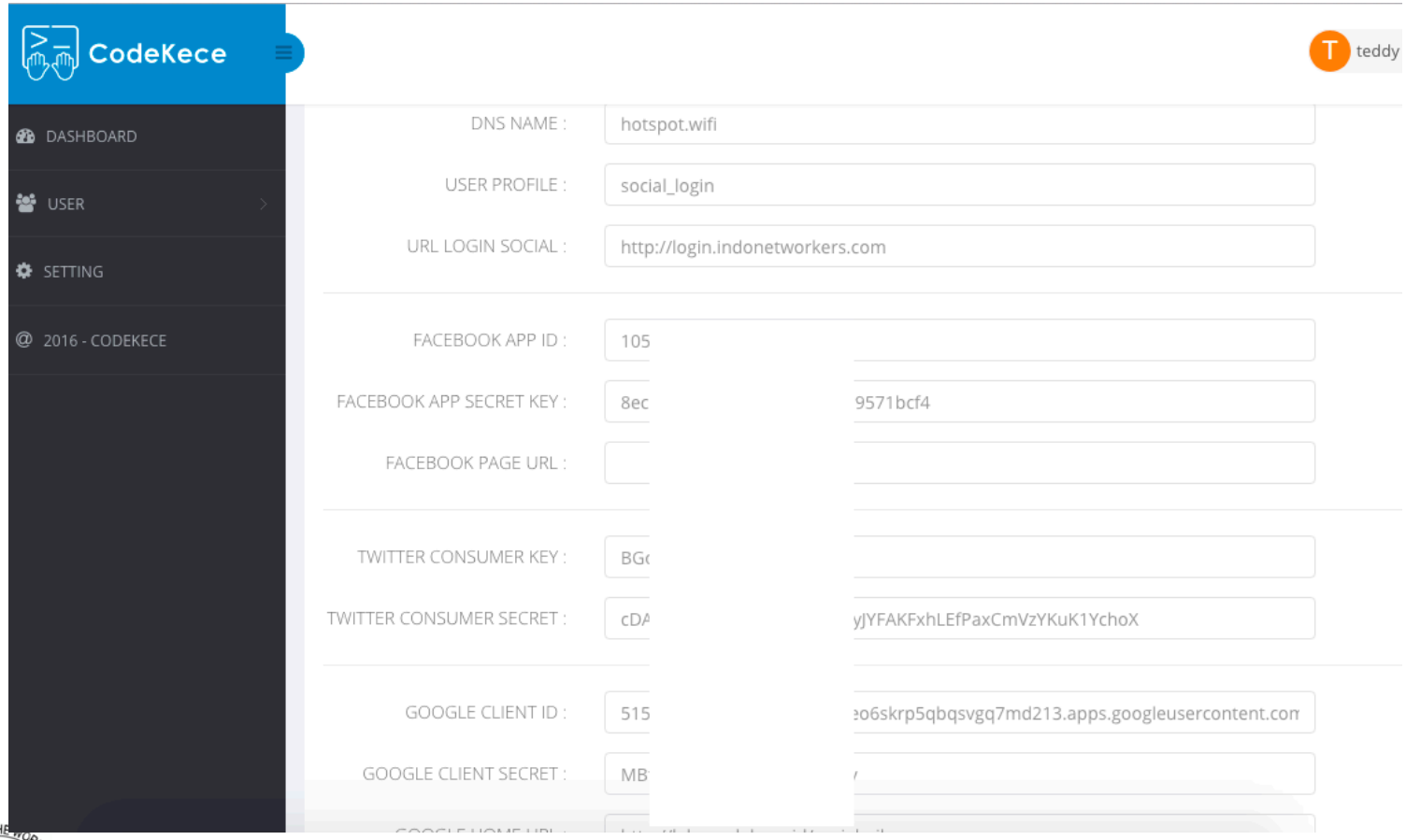
- Sosial Setting



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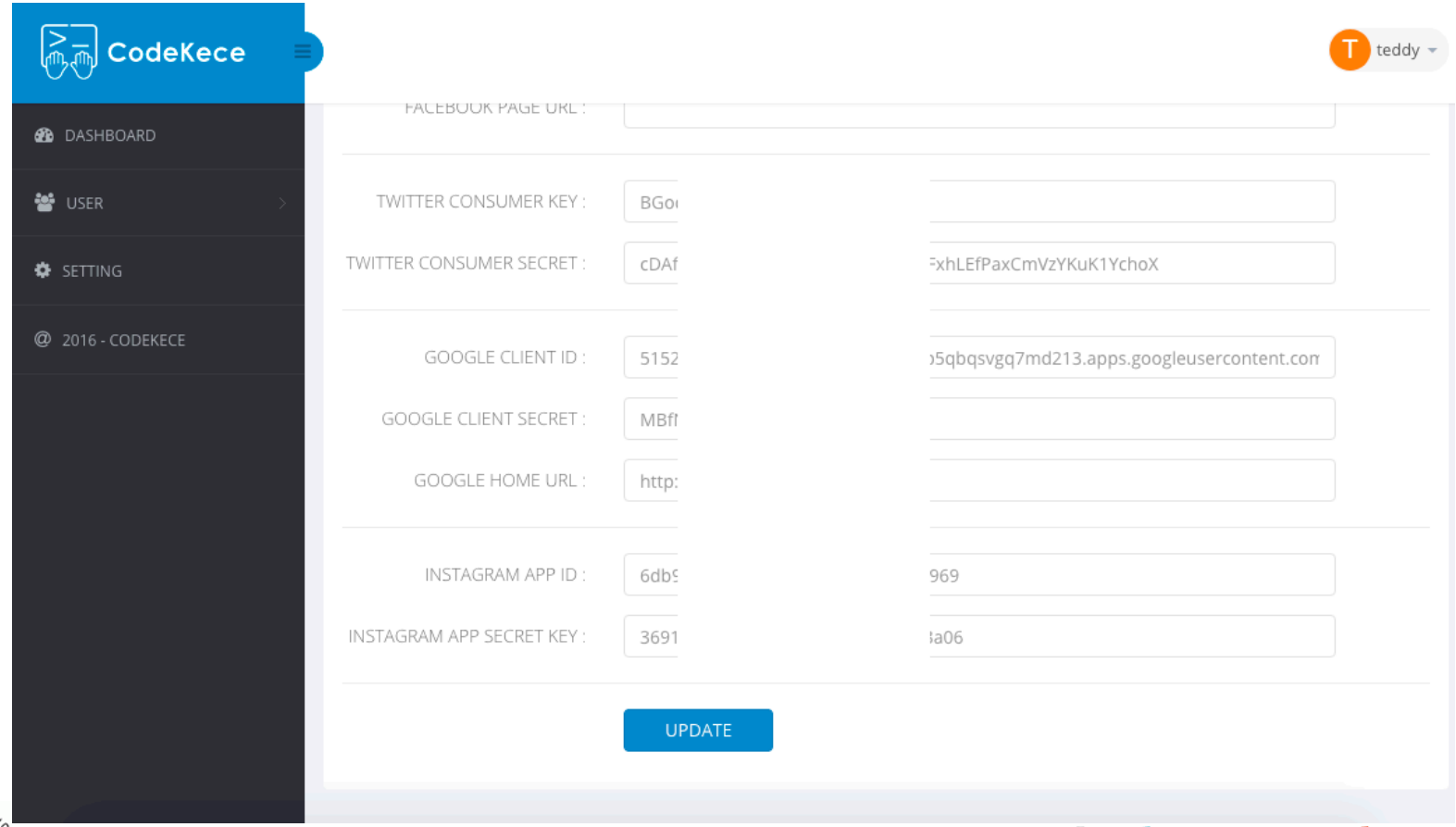
- Sosial Setting



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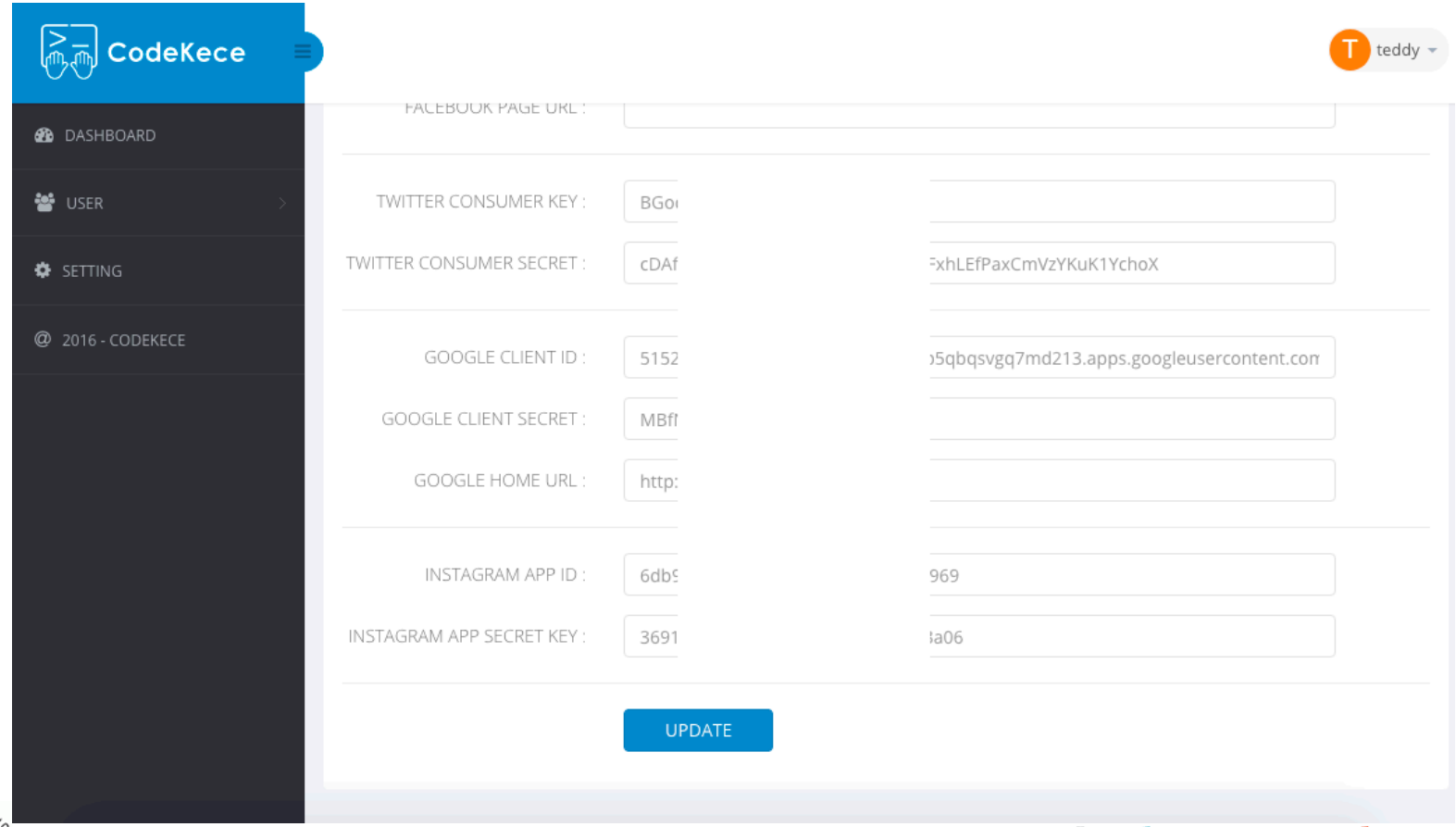
- Sosial Setting



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Step by Step Integrated Mikrotik Login Hotspot with social media

- **Sosial Setting**
- IP ADDRESS ➔ ip public or ip address or ddns name your mikrotik.
- PORT ➔ port API your mikrotik.
- USERNAME ➔ enter username login your mikrotik.
- PASSWORD ➔ enter password login your mikrotik.
- HOTSPOT PROFILE ➔ user profile settings such as speed limit, uptime etc.
  DNS NAME ➔ url login hotspot mikrotik or gateway hotspot mikrotik
- LOGIN PAGE URL ➔ is url login
- Setting login with facebook ➔ Enter FACEBOOK APP ID and FACEBOOK APP SECRET KEY
- Setting login with twitter ➔ Enter TWITTER CONSUMER KEY and WITTER CONSUMER SECRET
- Setting login with google ➔ EnterGOOGLE CLIENT ID, GOOGLE CLIENT SECRET and GOOGLE HOME URL

Step by Step Integrated Mikrotik Login Hotspot with social media

In Mikrotik RouterOS To Setting login social facebook, twitter, and google first of all add walled garden each social media to mikrotik by running the following command in the terminal through winbox.

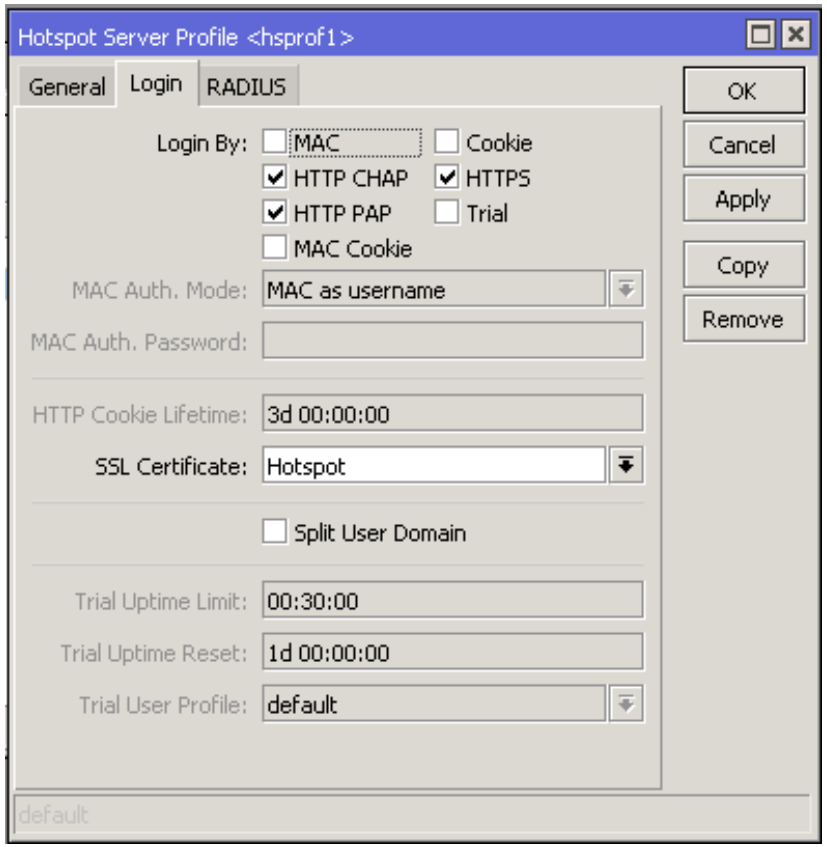
```
/ip hotspot walled-garden
 add dst-host=*facebook.com
 add dst-host=*facebook.net
 add dst-host=*akamaihd.net
 add dst-host=*fbcdn.net
 add dst-host=*google.com
 add dst-host=*googleapis.com
 add dst-host=*gstatic.com
 add dst-host=*googleusercontent.com
 add dst-host=*google.co.id
 add dst-host=*googleapis.co.id
 add dst-host=*gstatic.co.id
 add dst-host=*googleusercontent.co.id
 add dst-host=*twitter.com
 add dst-host=*twimg.com
 add dst-host=*abs.twitter.com
 add dst-host=your_domain_
```

Step by Step Integrated Mikrotik Login Hotspot with social media

In Mikrotik RouterOS

Go to IP Hotspot server profile

➔ login ➔ check list HTTP CHAP and HTTP PAP



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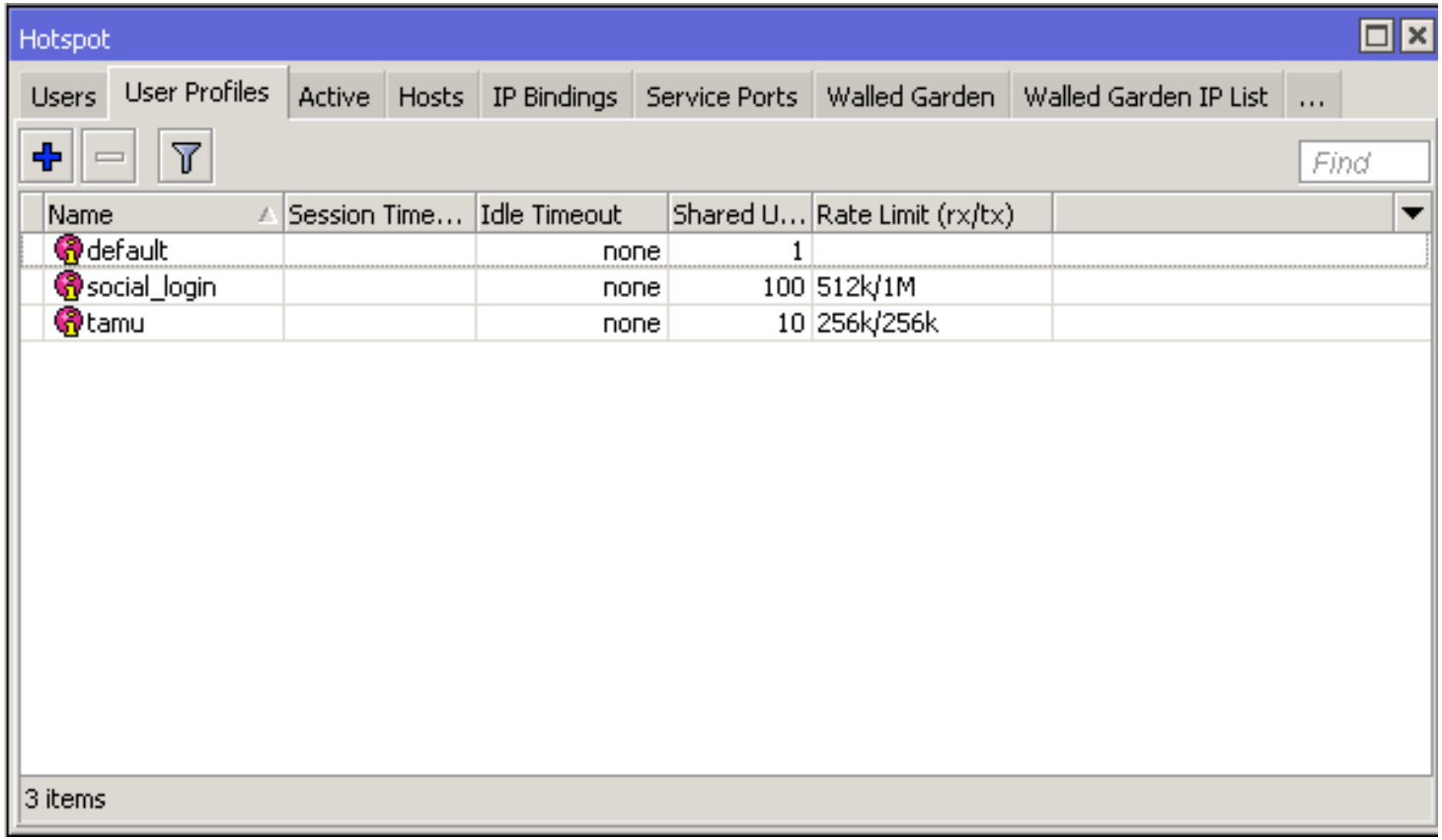
In Mikrotik RouterOS



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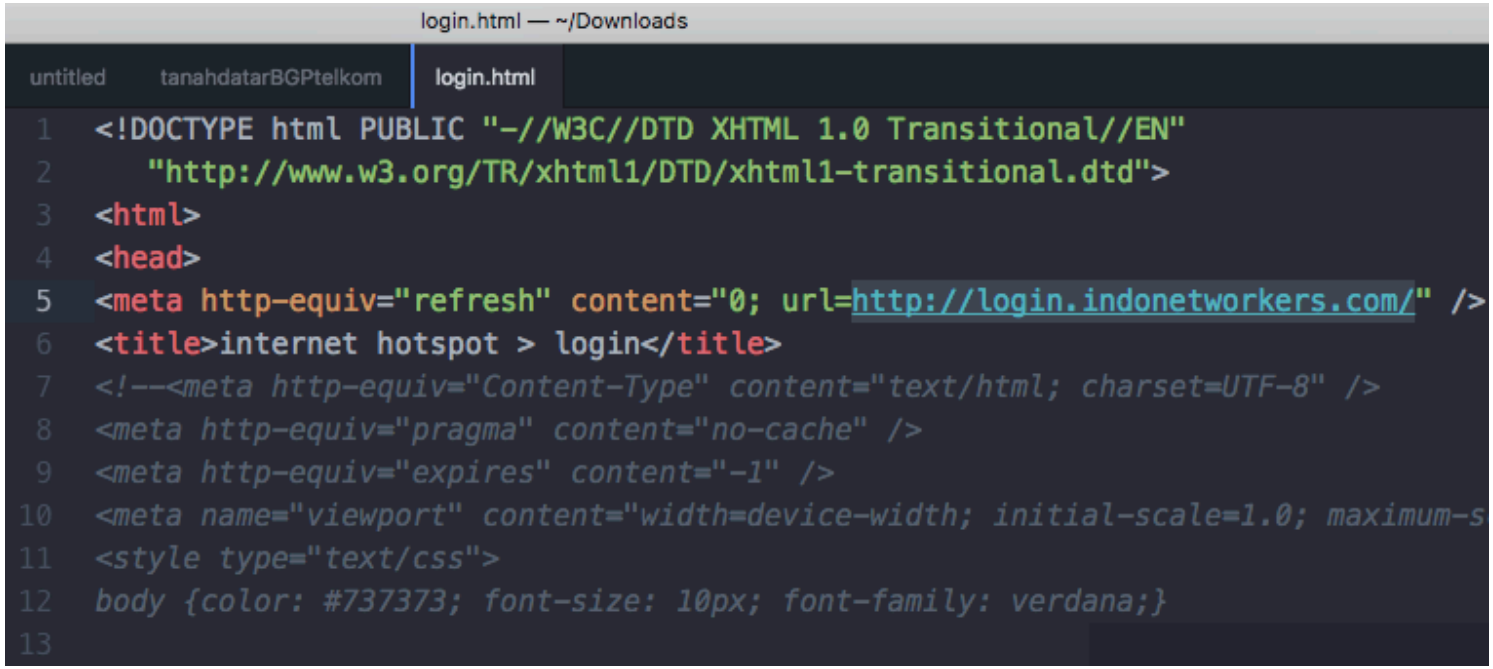
In Mikrotik RouterOS

Open file login.htm in hotspot folder edit url with your domain.

Open winbox, go to menu files, drag and drop/file folder hotspot to winbox.



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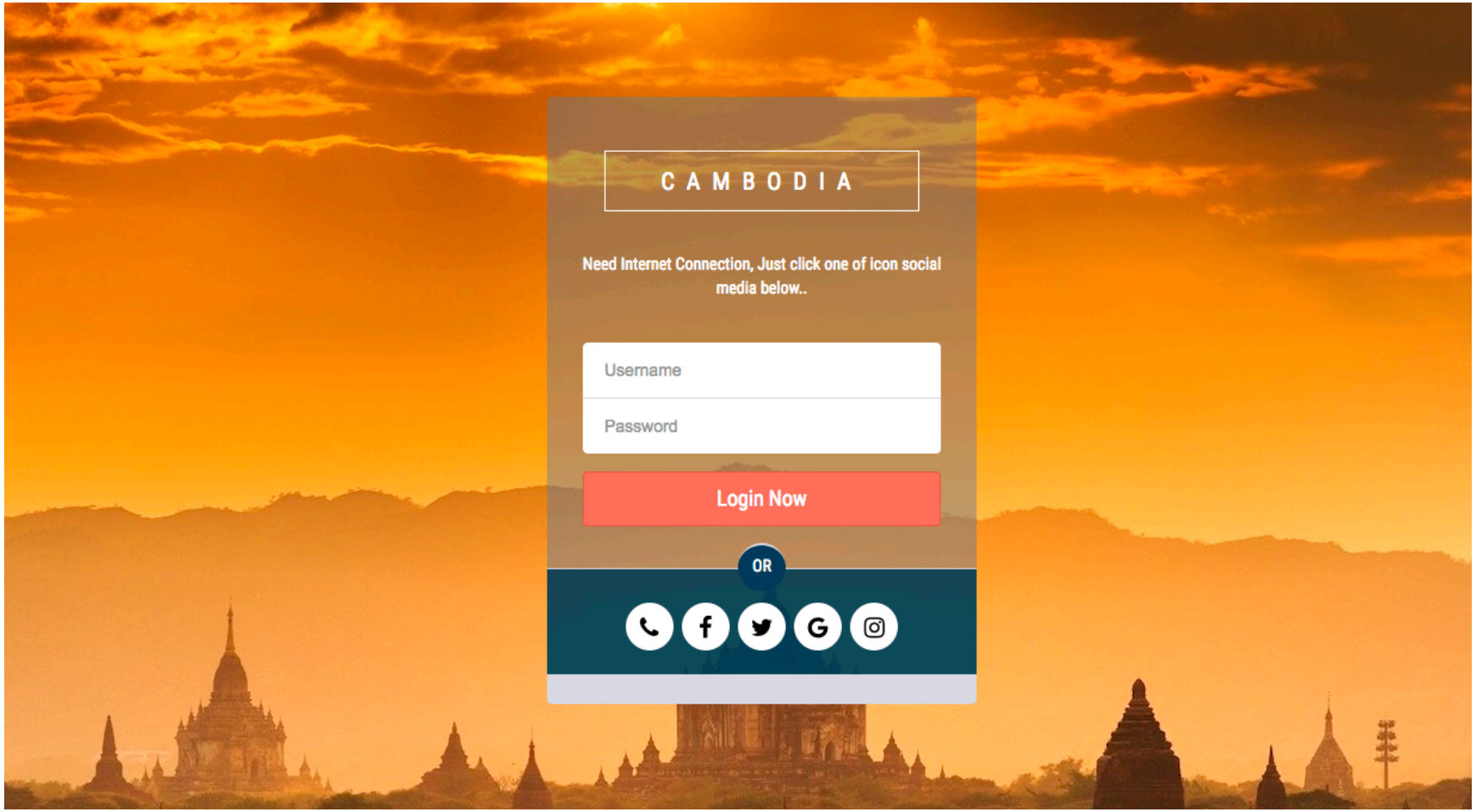

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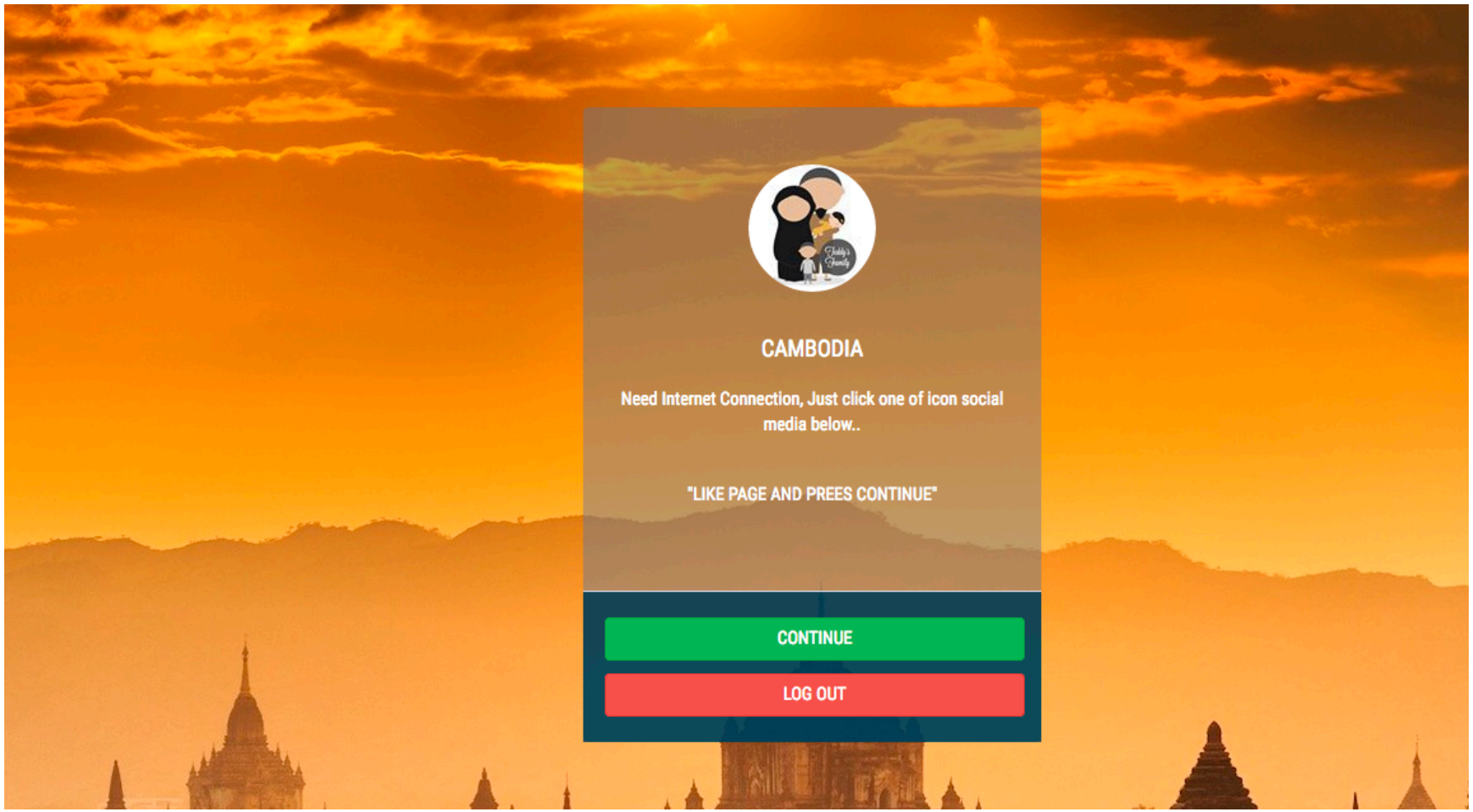

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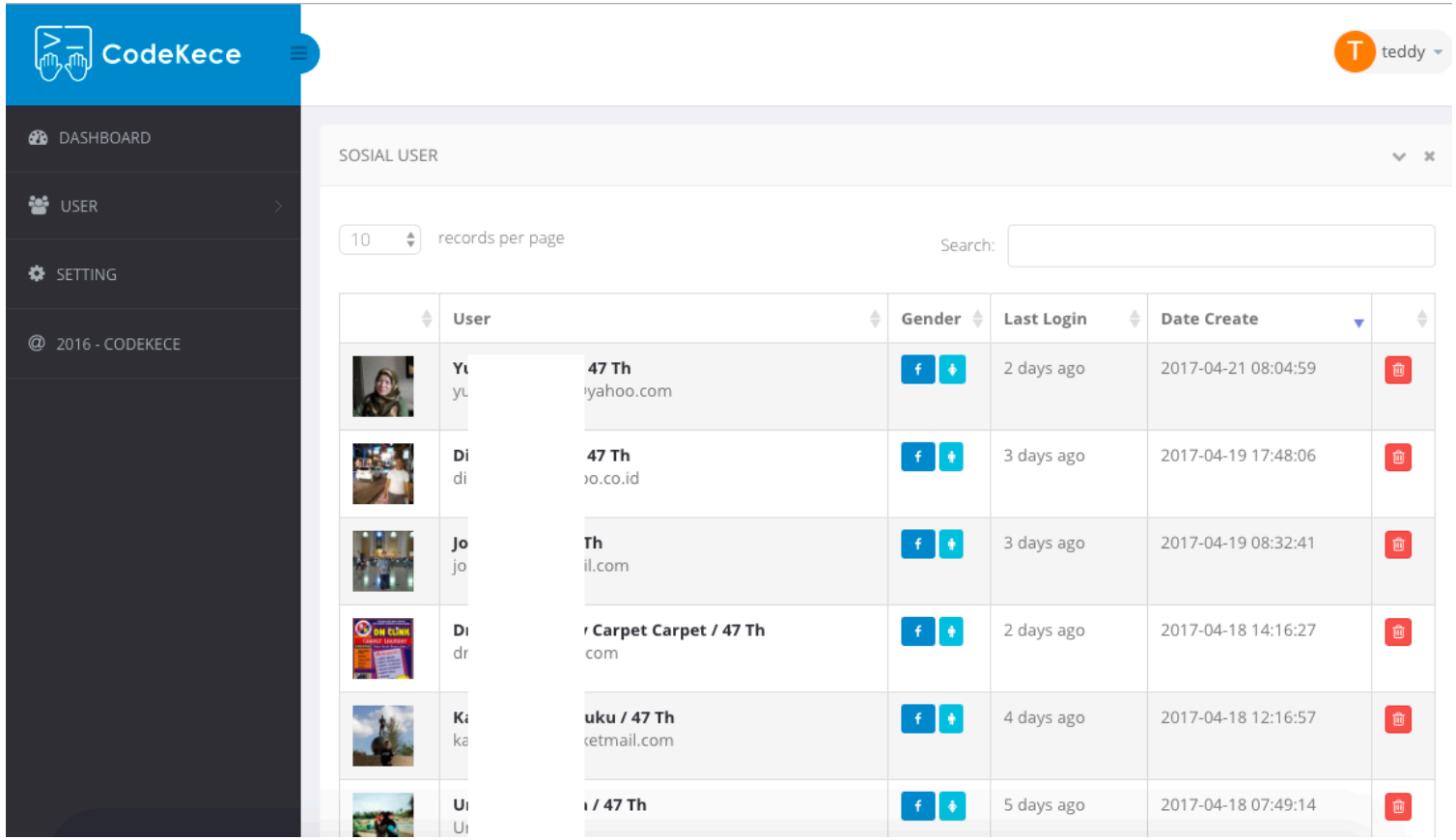
- Sosial Media User



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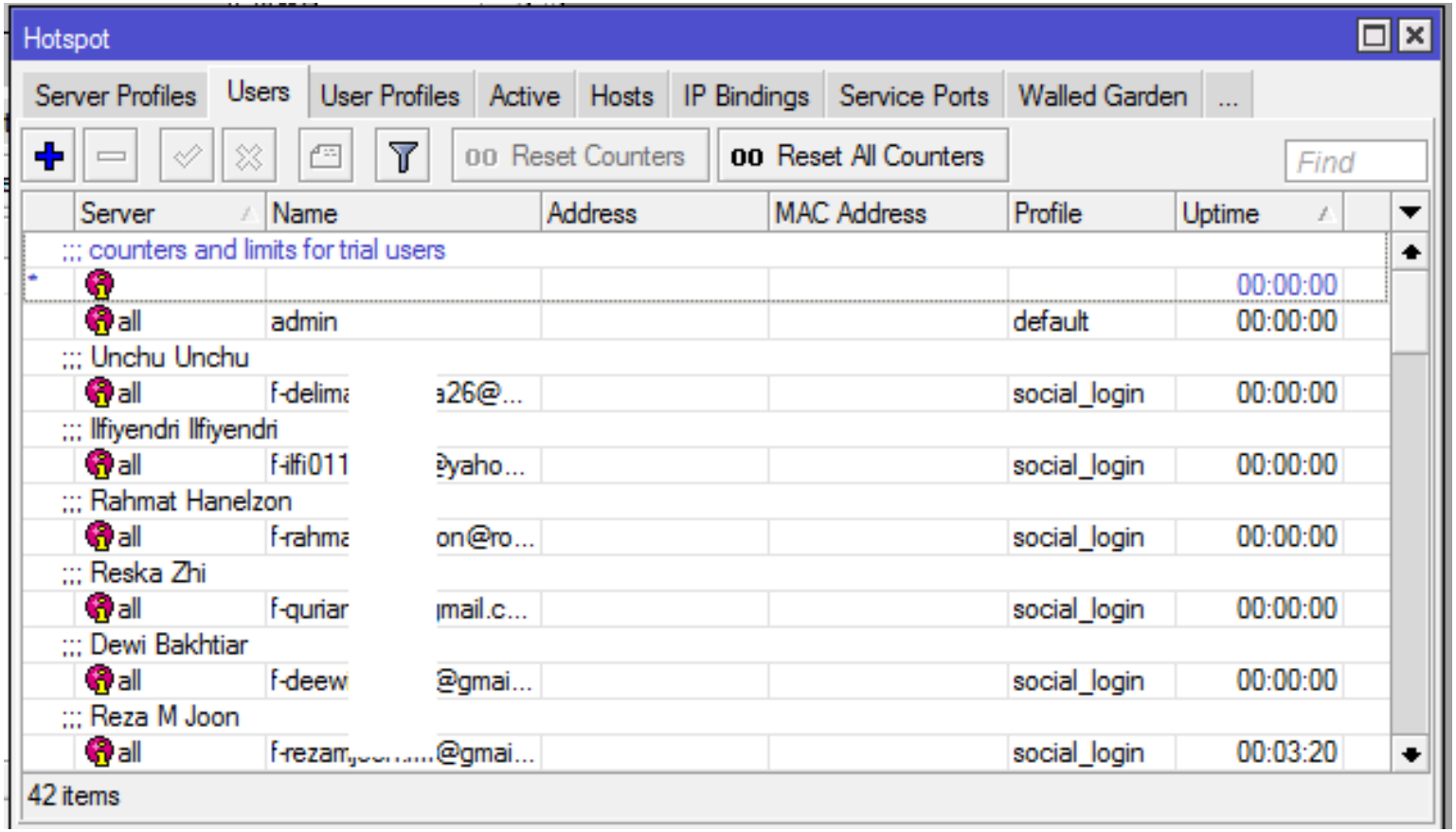
In Mikrotik RouterOS



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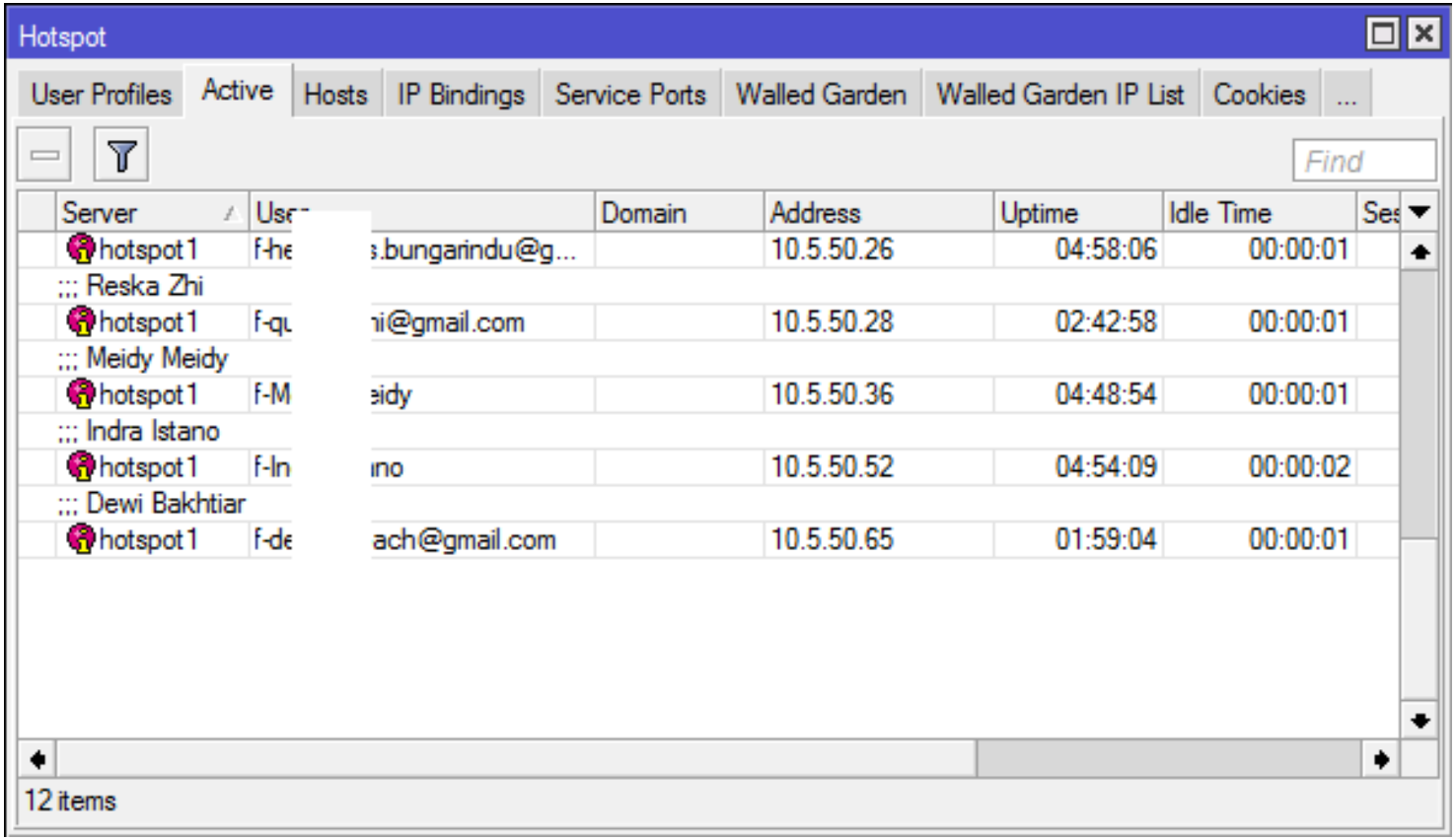

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Any Question?

email : teddy.yuliswar@gmail.com
Whatsapp : +62853 1477 1774

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Special Thanks to Shohibul Amin!

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