

# How to integrated *MikroTik* Login Hotspot With Social Media

**By : Teddy Yuliswar**  
**Cambodia, April 24, 2017**



[Indonetworkers.com](http://Indonetworkers.com)

Everytime Always Learn



- **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>



# What is the Internet ?



[Indonetworkers.com](http://Indonetworkers.com)

Everytime Always Learn



WIKIPEDIA

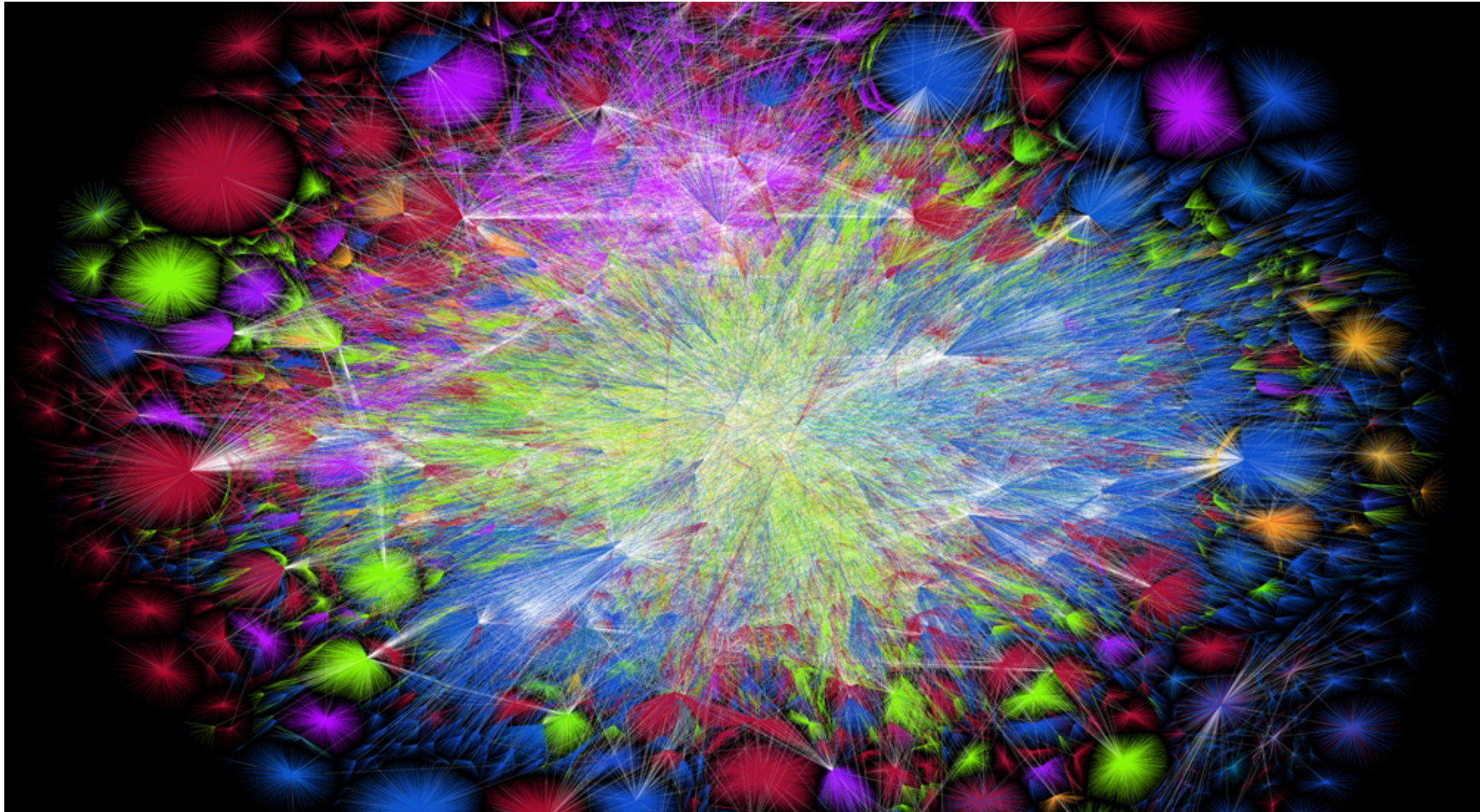
**The Internet :**  
**the global system of interconnected**  
**computer networks that use the**  
**Internet protocol suite (TCP/IP) to link**  
**devices worldwide.**



WIKIPEDIA

**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.**

# Opte Project ([www.opte.org](http://www.opte.org))



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

# Opte Project ([www.opte.org](http://www.opte.org))

North America (ARIN)

Europe (RIPE)

Latin America (LACNIC)

Asia Pacific (APNIC)

Africa (AFRINIC)

“Backbone” (highly connected networks)

# Things to Do Without Access To The Internet



- Go to McDonald's to use their free Wi-Fi
- Take A Nap
- Try to find a neighbor's Wi-Fi signal
- Read A Book
- Get Something Productive Done
- Cry in the corner, because life without the Internet is hellish.

 GraphJam.com



# The Top 20 Popular Websites in The World



WIKIPEDIA

List of websites

Site	Domain	Alexa top 100 global websites (As of April 3, 2017) <sup>[3]</sup>	SimilarWeb top 100 websites (As of February 2017) <sup>[4]</sup>	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

# What is Social Media?



# What is Social Media?



WIKIPEDIA

**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.



*Mikro***Tik**  
Login Hotspot



WIKIPEDIA

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.



[Indonetworkers.com](http://Indonetworkers.com)

Everytime Always Learn

# *Mikro***Tik** Login Hotspot

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



# 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;
- 



# 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.



# 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.

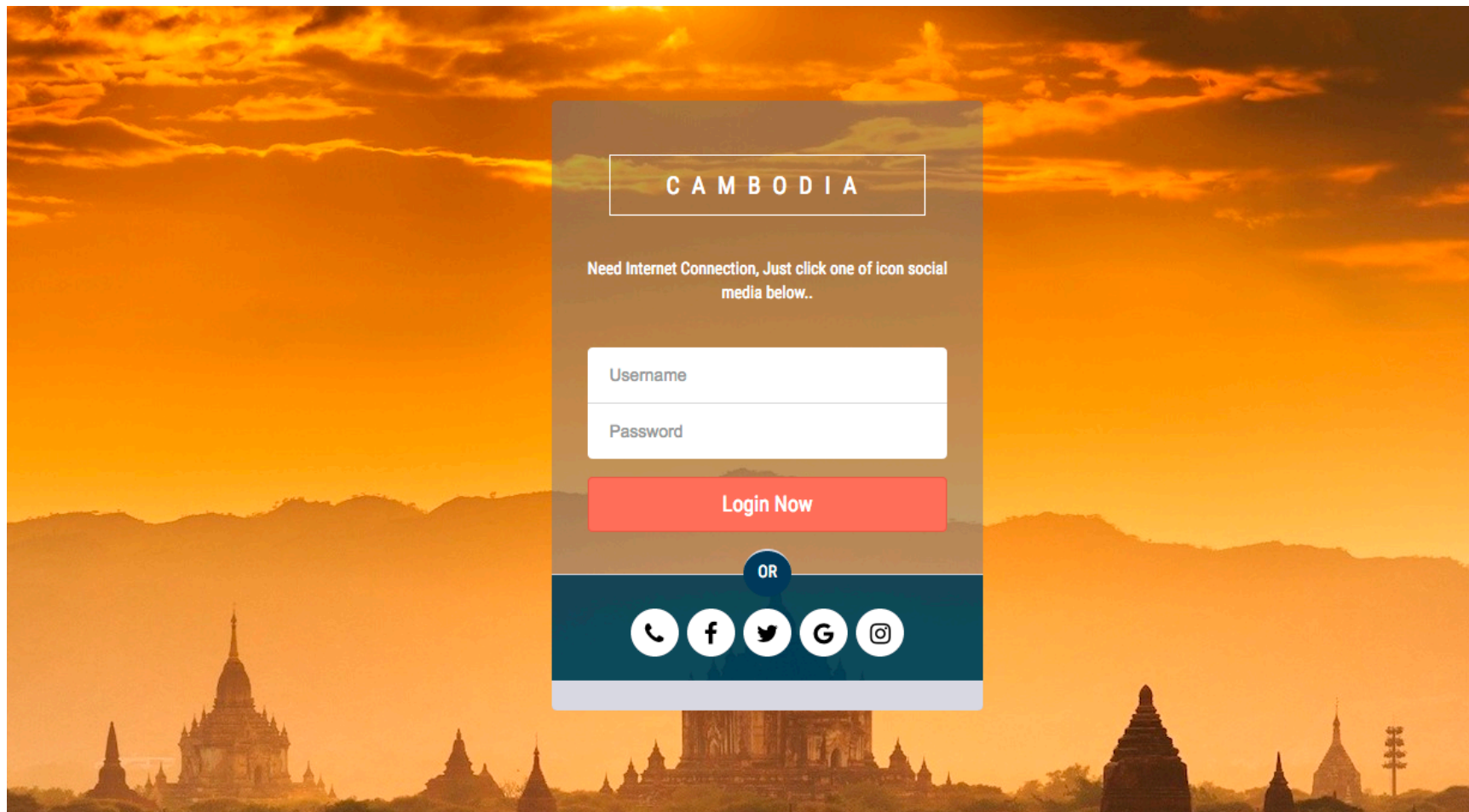


# Integrated *MikroTik* Login Hotspot With Social Media ?

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



# Step by Step Integrated Mikrotik Login Hotspot with social media

## System Requirement

- 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



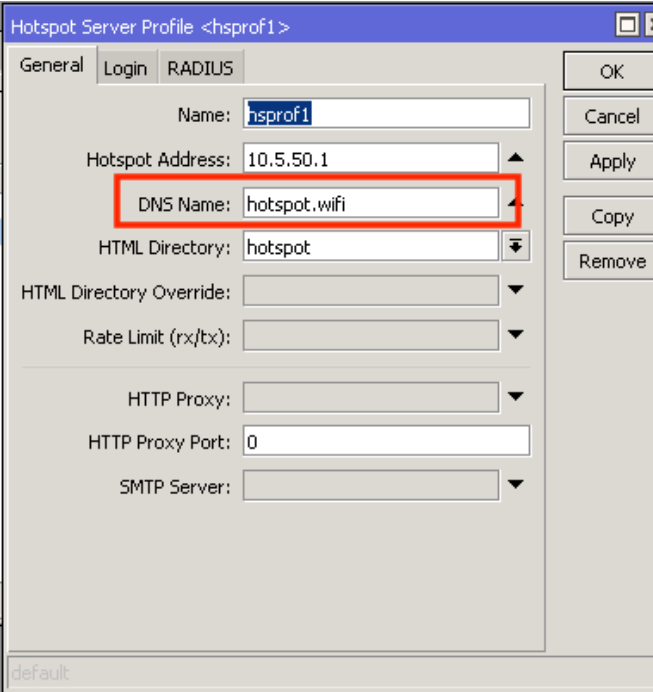
## Step by Step Integrated Mikrotik Login Hotspot with social media

- **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

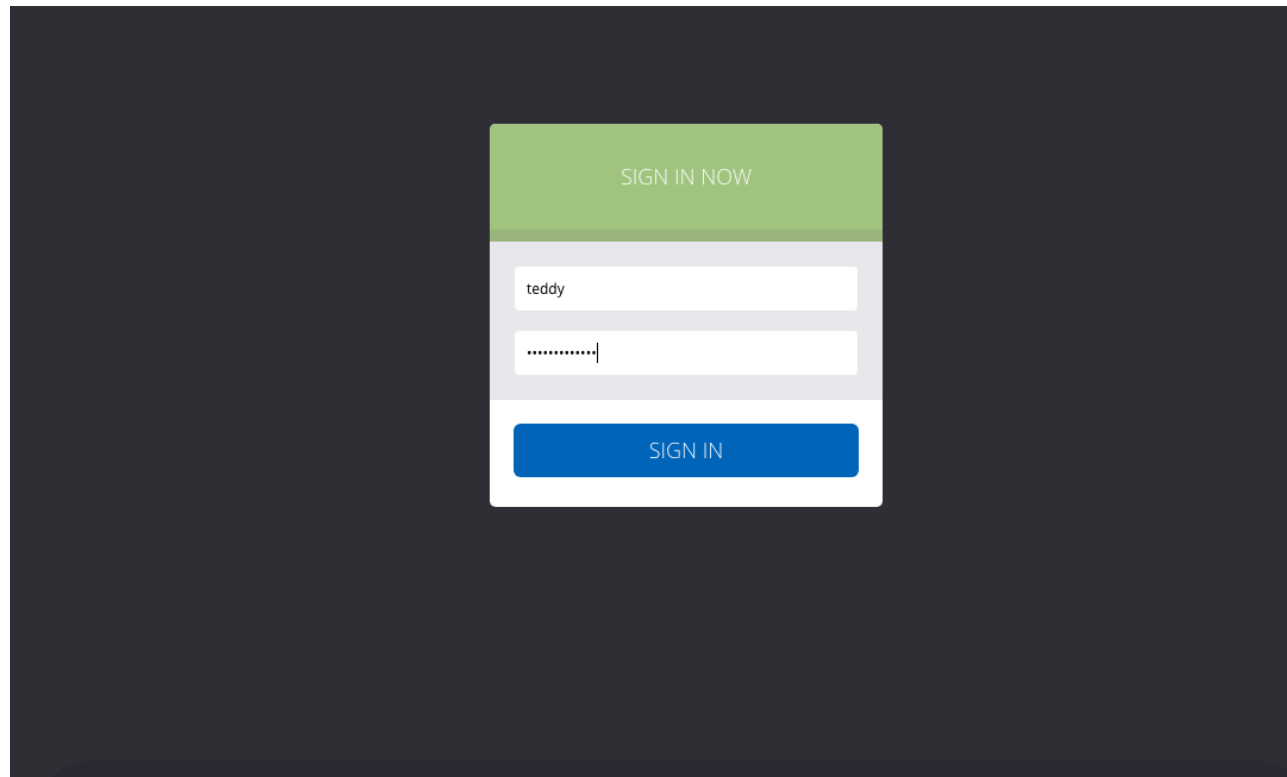
- Open application in your browser,
- Open setting menu, enter Dns Name Hotspot Mikrotik is url login hotspot mikrotik or gateway hotspot mikrotik,(open mikrotik via winbox go to menu ip > hotspot > server profile



The screenshot shows the 'Hotspot Server Profile' configuration window in Mikrotik WinBox. The window has three tabs: 'General', 'Login', and 'RADIUS'. The 'General' tab is active. The 'Name' field is set to 'hsprof1'. The 'Hotspot Address' is '10.5.50.1'. The 'DNS Name' field is highlighted with a red box and contains 'hotspot.wifi'. The 'HTML Directory' is 'hotspot'. Other fields like 'HTML Directory Override', 'Rate Limit (rx/tx)', 'HTTP Proxy', 'HTTP Proxy Port', and 'SMTP Server' are empty or set to default values. The window title is 'Hotspot Server Profile <hsprof1>'. Buttons for 'OK', 'Cancel', 'Apply', 'Copy', and 'Remove' are on the right side.

# Step by Step Integrated Mikrotik Login Hotspot with social media

- Login Admin area

A screenshot of a Mikrotik login interface. The background is dark grey. In the center, there is a white login form. At the top of the form is a green header with the text "SIGN IN NOW". Below the header are two input fields: the first contains the text "teddy" and the second contains a series of dots. At the bottom of the form is a blue button with the text "SIGN IN".

SIGN IN NOW

teddy

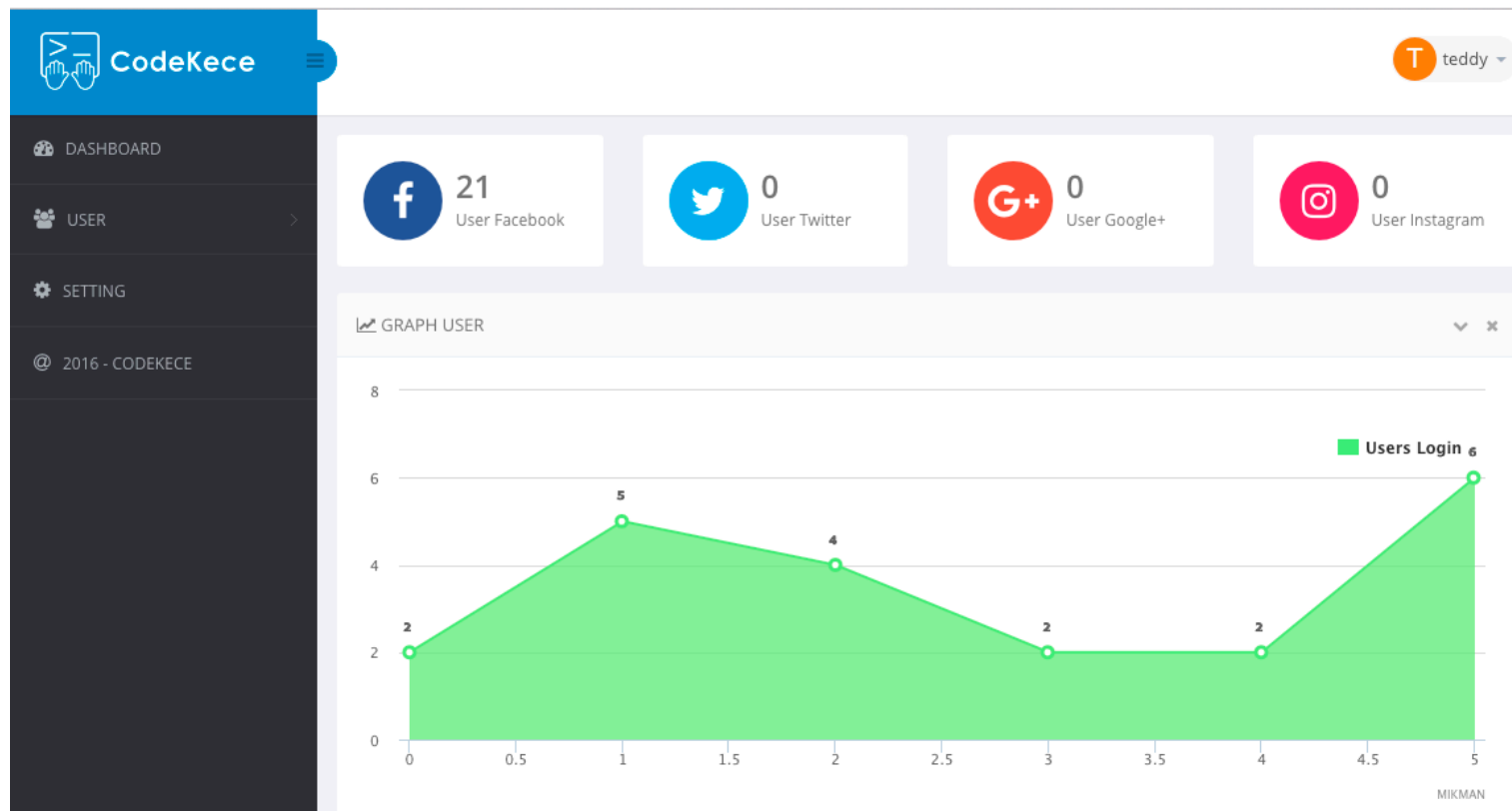
.....

SIGN IN



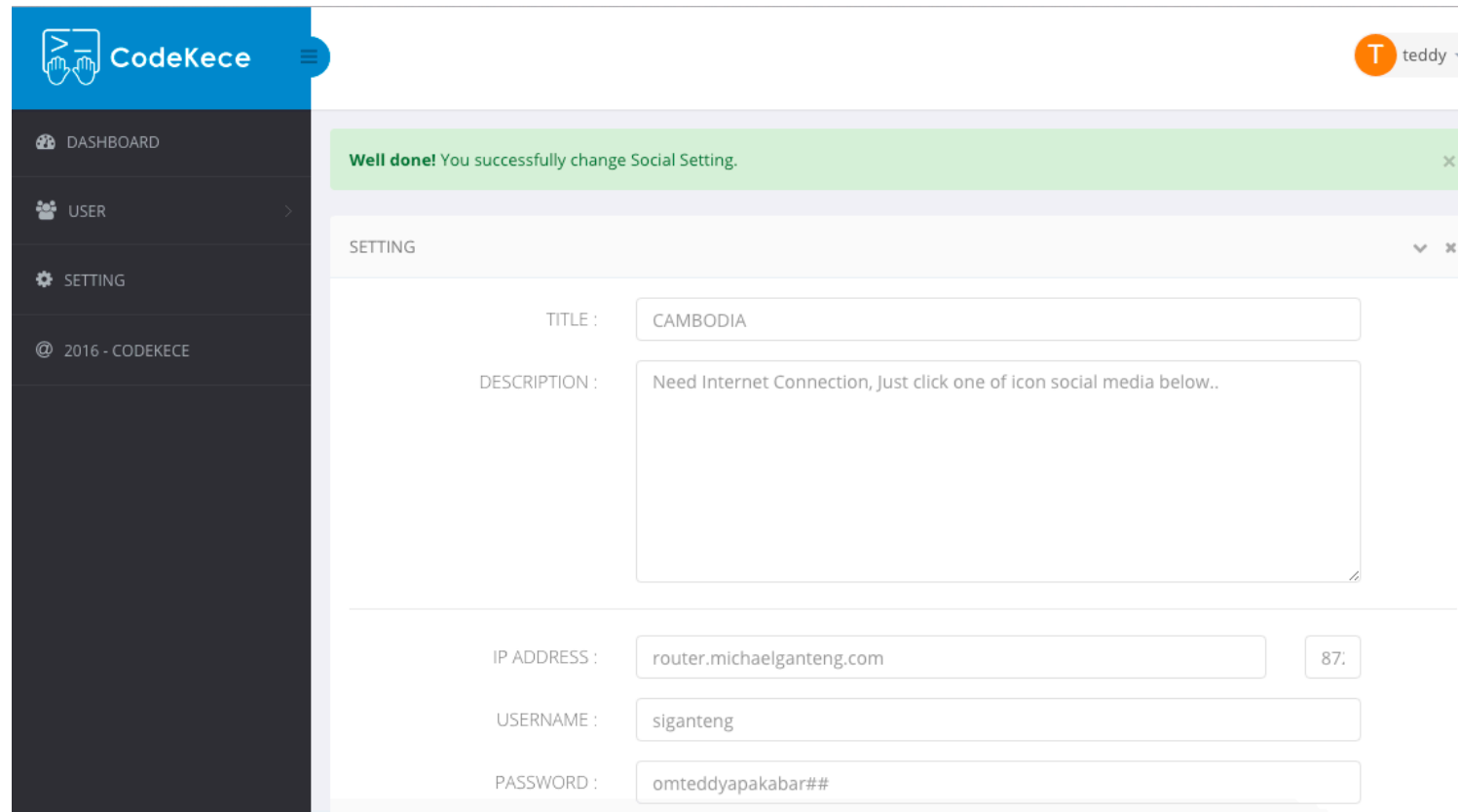
# Step by Step Integrated Mikrotik Login Hotspot with social media

- Dashboard



# Step by Step Integrated Mikrotik Login Hotspot with social media

- Sosial Setting



The screenshot shows the Mikrotik Hotspot configuration interface. At the top, there is a blue header with the 'CodeKece' logo and a user profile 'teddy'. A green notification banner reads 'Well done! You successfully change Social Setting.' Below this is a 'SETTING' window with the following fields:

- TITLE : CAMBODIA
- DESCRIPTION : Need Internet Connection, Just click one of icon social media below..
- IP ADDRESS : router.michaelganteng.com (Port: 87)
- USERNAME : siganteng
- PASSWORD : omteddyapakabar##

# Step by Step Integrated Mikrotik Login Hotspot with social media

- Social Setting

The screenshot displays the 'Social Setting' configuration page in the CodeKece interface. The sidebar on the left includes 'DASHBOARD', 'USER', and 'SETTING' (selected), along with a copyright notice '© 2016 - CODEKECE'. The main content area is divided into sections for general settings and social media integrations.

Field	Value
DNS NAME :	hotspot.wifi
USER PROFILE :	social_login
URL LOGIN SOCIAL :	http://login.indonetworkers.com
FACEBOOK APP ID :	105
FACEBOOK APP SECRET KEY :	8ec9571bcf4
FACEBOOK PAGE URL :	
TWITTER CONSUMER KEY :	BGc
TWITTER CONSUMER SECRET :	cDAyJYFAKFxhLEfPaxCmVzYKuK1YchoX
GOOGLE CLIENT ID :	515e06skrp5qbqsvgq7md213.apps.googleusercontent.com
GOOGLE CLIENT SECRET :	MB

# Step by Step Integrated Mikrotik Login Hotspot with social media

- Sosial Setting

The screenshot displays the 'Social Setting' configuration page in the CodeKece application. The interface includes a dark sidebar on the left with the CodeKece logo and navigation options: DASHBOARD, USER, SETTING, and a user profile section for '@ 2016 - CODEKECE'. The main content area is a light gray form with the following fields:

- FACEBOOK PAGE URL :
- TWITTER CONSUMER KEY :
- TWITTER CONSUMER SECRET :
- GOOGLE CLIENT ID :
- GOOGLE CLIENT SECRET :
- GOOGLE HOME URL :
- INSTAGRAM APP ID :
- INSTAGRAM APP SECRET KEY :

An 'UPDATE' button is located at the bottom center of the form.

# Step by Step Integrated Mikrotik Login Hotspot with social media

- Sosial Setting

The screenshot displays the 'Social Setting' configuration page in the CodeKece application. The interface includes a dark sidebar on the left with navigation options: 'DASHBOARD', 'USER', and 'SETTING'. The main content area is white and contains several input fields for social media integration. The fields are organized into sections: Facebook Page URL, Twitter (Consumer Key and Secret), Google (Client ID, Client Secret, and Home URL), and Instagram (App ID and Secret Key). A blue 'UPDATE' button is positioned at the bottom center of the form.

Field	Value
FACEBOOK PAGE URL :	
TWITTER CONSUMER KEY :	BGo
TWITTER CONSUMER SECRET :	cDAf
GOOGLE CLIENT ID :	5152
GOOGLE CLIENT SECRET :	MBff
GOOGLE HOME URL :	http:
INSTAGRAM APP ID :	6db5
INSTAGRAM APP SECRET KEY :	3691

## 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_
```

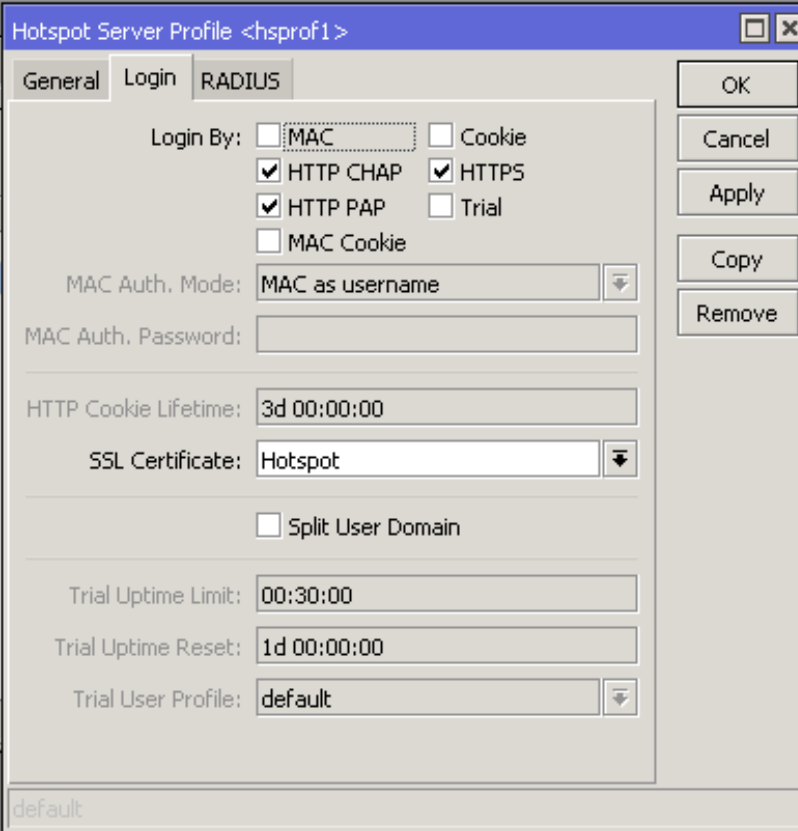


# Step by Step Integrated Mikrotik Login Hotspot with social media

In Mikrotik RouterOS

Go to IP Hotspot server profile

→ login → check list HTTP CHAP  
and HTTP PAP

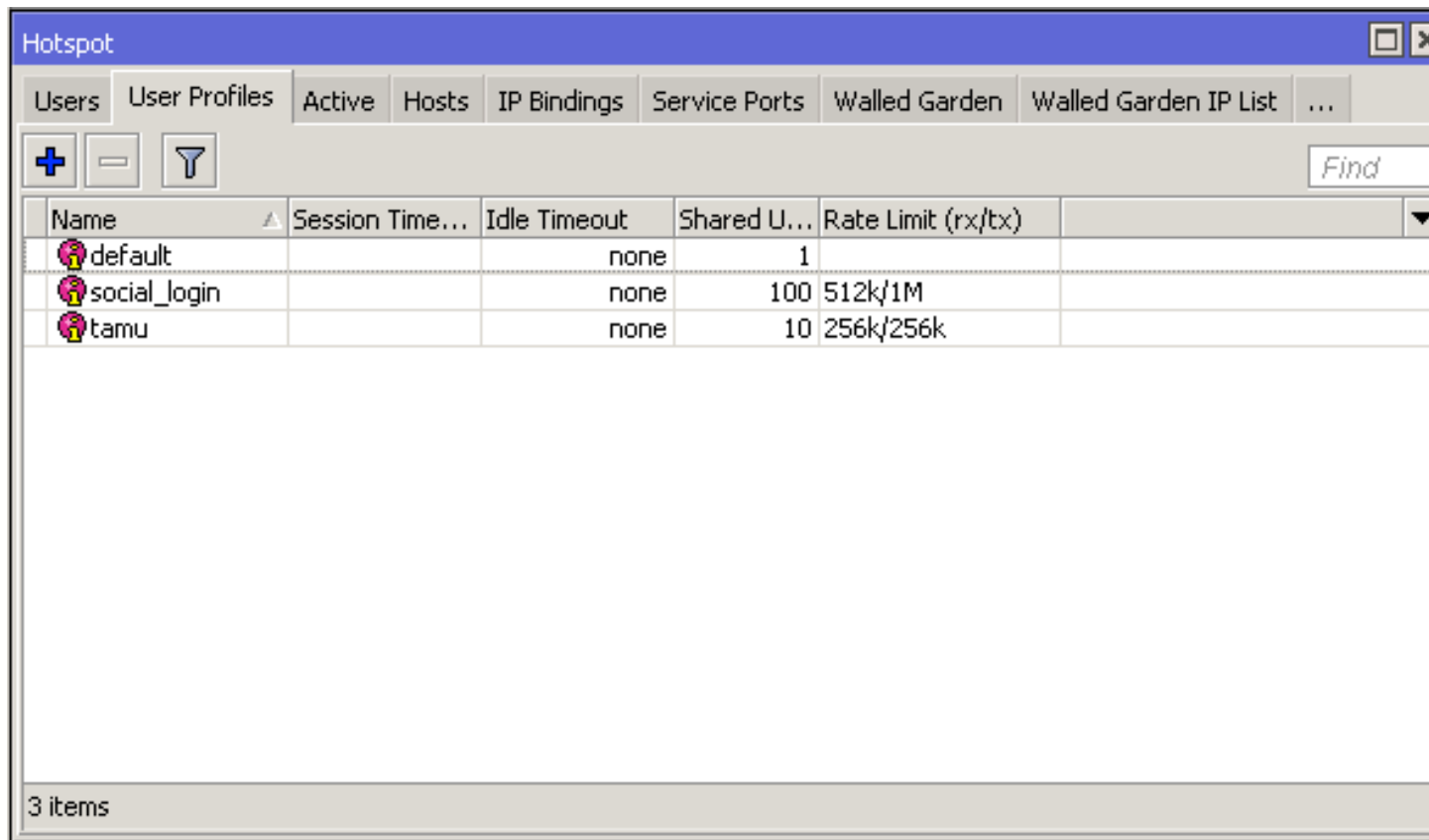


The screenshot shows the 'Hotspot Server Profile <hsprof1>' configuration window in Mikrotik RouterOS, specifically the 'RADIUS' tab. The 'Login By:' section has 'MAC' selected. The 'Login By:' options are:  MAC,  Cookie,  HTTP CHAP,  HTTPS,  HTTP PAP,  Trial, and  MAC Cookie. The 'MAC Auth. Mode:' is set to 'MAC as username'. The 'MAC Auth. Password:' field is empty. The 'HTTP Cookie Lifetime:' is set to '3d 00:00:00'. The 'SSL Certificate:' is set to 'Hotspot'. The 'Split User Domain' checkbox is unchecked. The 'Trial Uptime Limit:' is set to '00:30:00', 'Trial Uptime Reset:' is set to '1d 00:00:00', and 'Trial User Profile:' is set to 'default'. The 'default' profile is also listed in the bottom bar. On the right side, there are buttons for 'OK', 'Cancel', 'Apply', 'Copy', and 'Remove'.



# Step by Step Integrated Mikrotik Login Hotspot with social media

In Mikrotik RouterOS



The screenshot shows the Mikrotik Hotspot configuration window. The 'User Profiles' tab is selected. The table below lists the configured user profiles:

Name	Session Time...	Idle Timeout	Shared U...	Rate Limit (rx/tx)
default		none	1	
social_login		none	100	512k/1M
tamu		none	10	256k/256k

3 items

# Step by Step Integrated Mikrotik Login Hotspot with social media

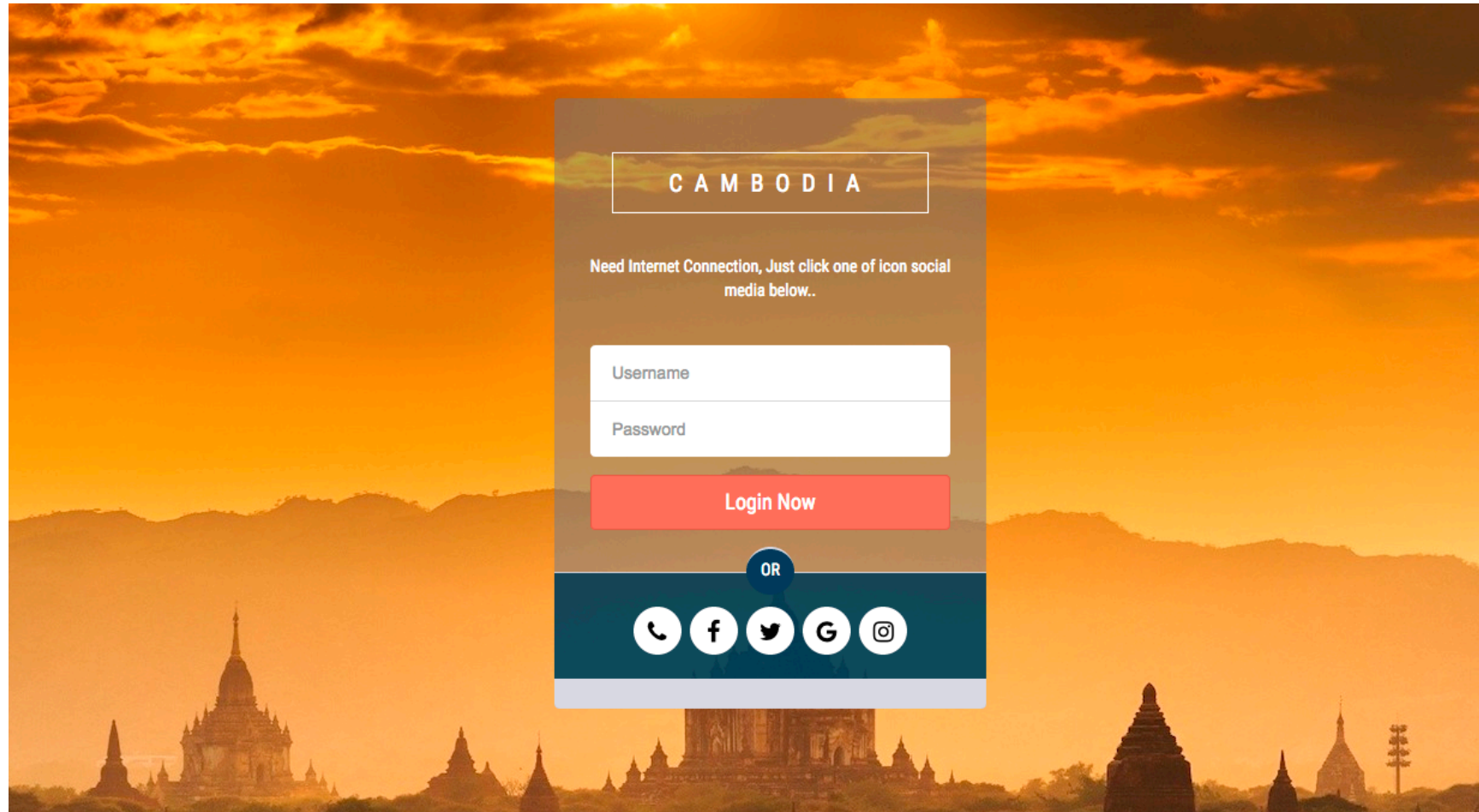
## In Mikrotik RouterOS

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

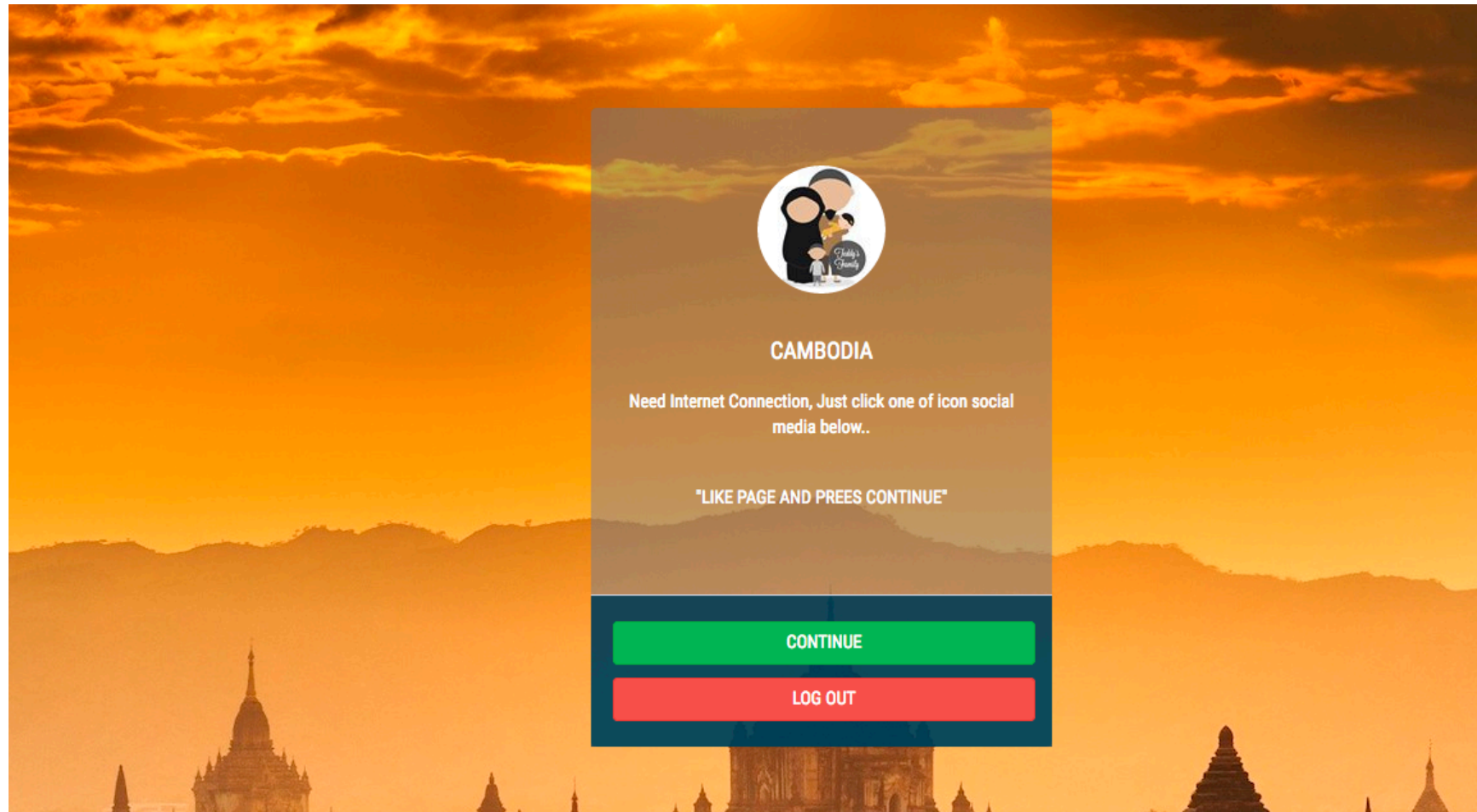
Open winbox, go to menu files, drag and drop/file folder hotspot to winbox.

```
login.html — ~/Downloads
untitled  tanahdatarBGPtelkom  login.html
1  <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
2    "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
3  <html>
4  <head>
5  <meta http-equiv="refresh" content="0; url=http://login.indonetworkers.com/" />
6  <title>internet hotspot > login</title>
7  <!--<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
8  <meta http-equiv="pragma" content="no-cache" />
9  <meta http-equiv="expires" content="-1" />
10 <meta name="viewport" content="width=device-width; initial-scale=1.0; maximum-s
11 <style type="text/css">
12 body {color: #737373; font-size: 10px; font-family: verdana;}
13
```

# Step by Step Integrated Mikrotik Login Hotspot with social media

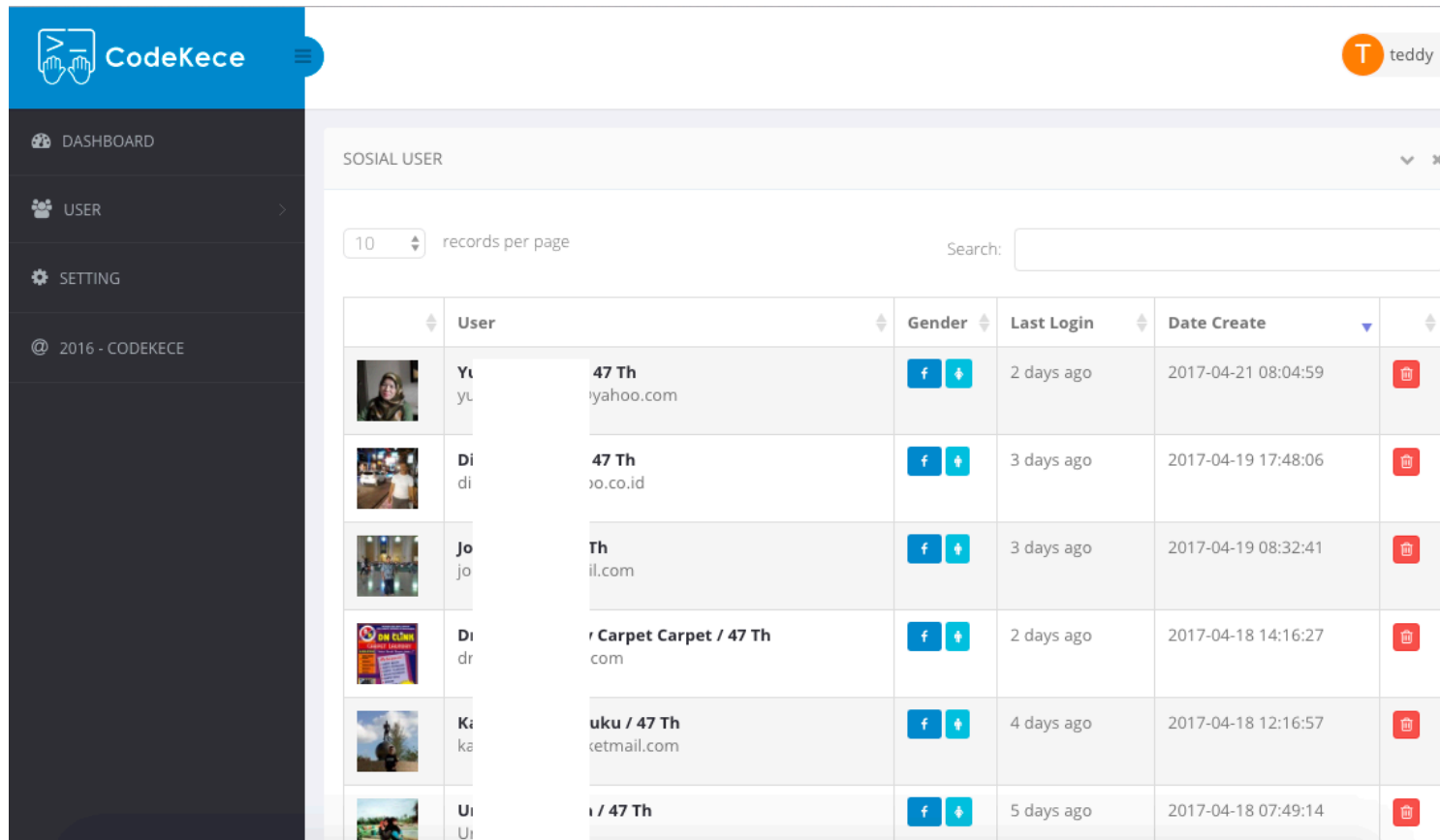


# Step by Step Integrated Mikrotik Login Hotspot with social media



# Step by Step Integrated Mikrotik Login Hotspot with social media

- Sosial Media User

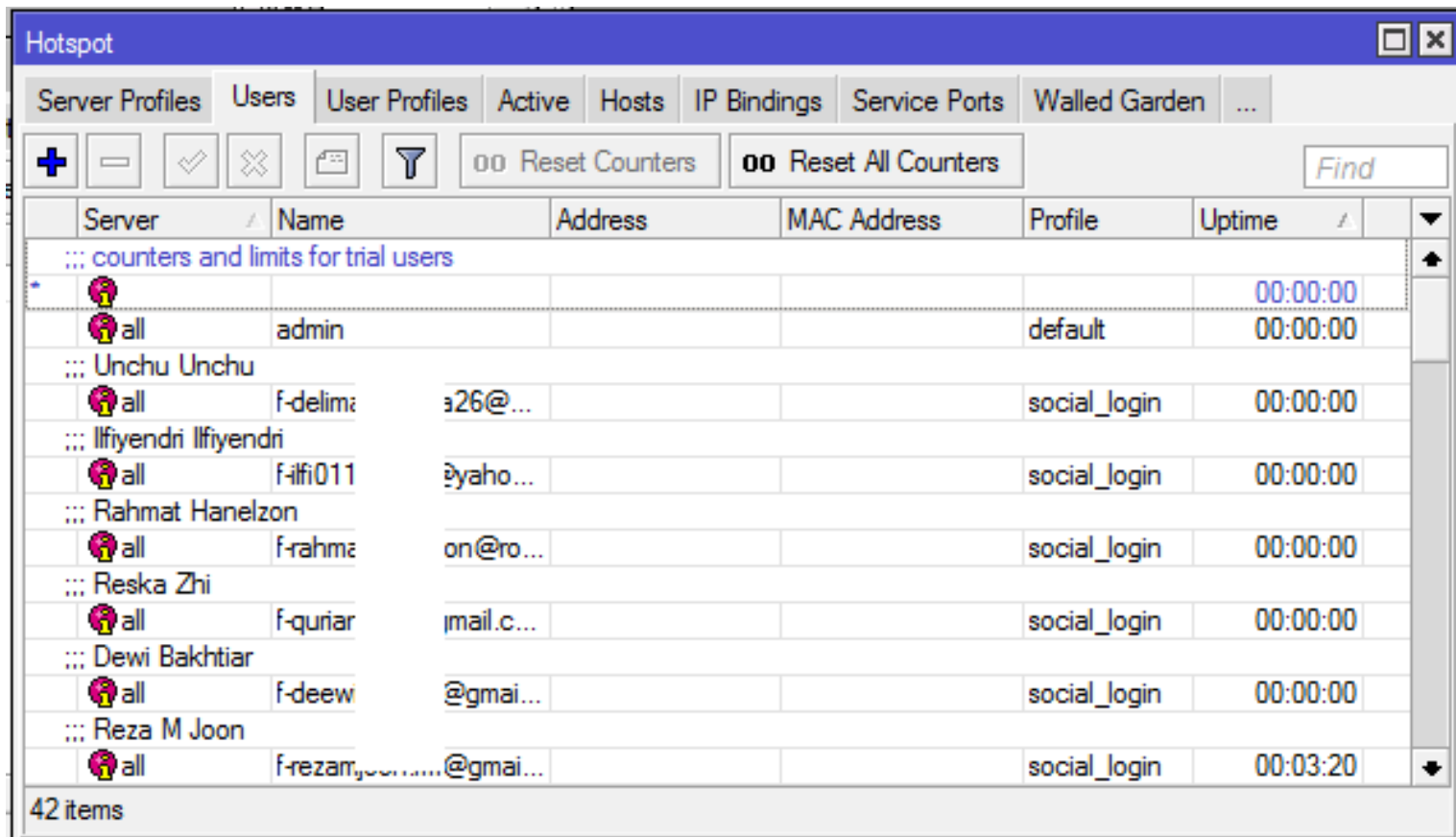


The screenshot shows the CodeKece web interface. The top navigation bar includes the CodeKece logo and a user profile for 'teddy'. The left sidebar contains menu items: DASHBOARD, USER, and SETTING. The main content area is titled 'SOSIAL USER' and displays a table of users with columns for User, Gender, Last Login, and Date Create. The table contains six rows of user data.

User	Gender	Last Login	Date Create
Yu yul 47 Th yahoo.com	f	2 days ago	2017-04-21 08:04:59
Di di 47 Th yo.co.id	f	3 days ago	2017-04-19 17:48:06
Jo jo Th il.com	f	3 days ago	2017-04-19 08:32:41
Di dr r Carpet Carpet / 47 Th com	f	2 days ago	2017-04-18 14:16:27
Ki ka uku / 47 Th etmail.com	f	4 days ago	2017-04-18 12:16:57
Ui Ui i / 47 Th	f	5 days ago	2017-04-18 07:49:14

# Step by Step Integrated Mikrotik Login Hotspot with social media

## In Mikrotik RouterOS

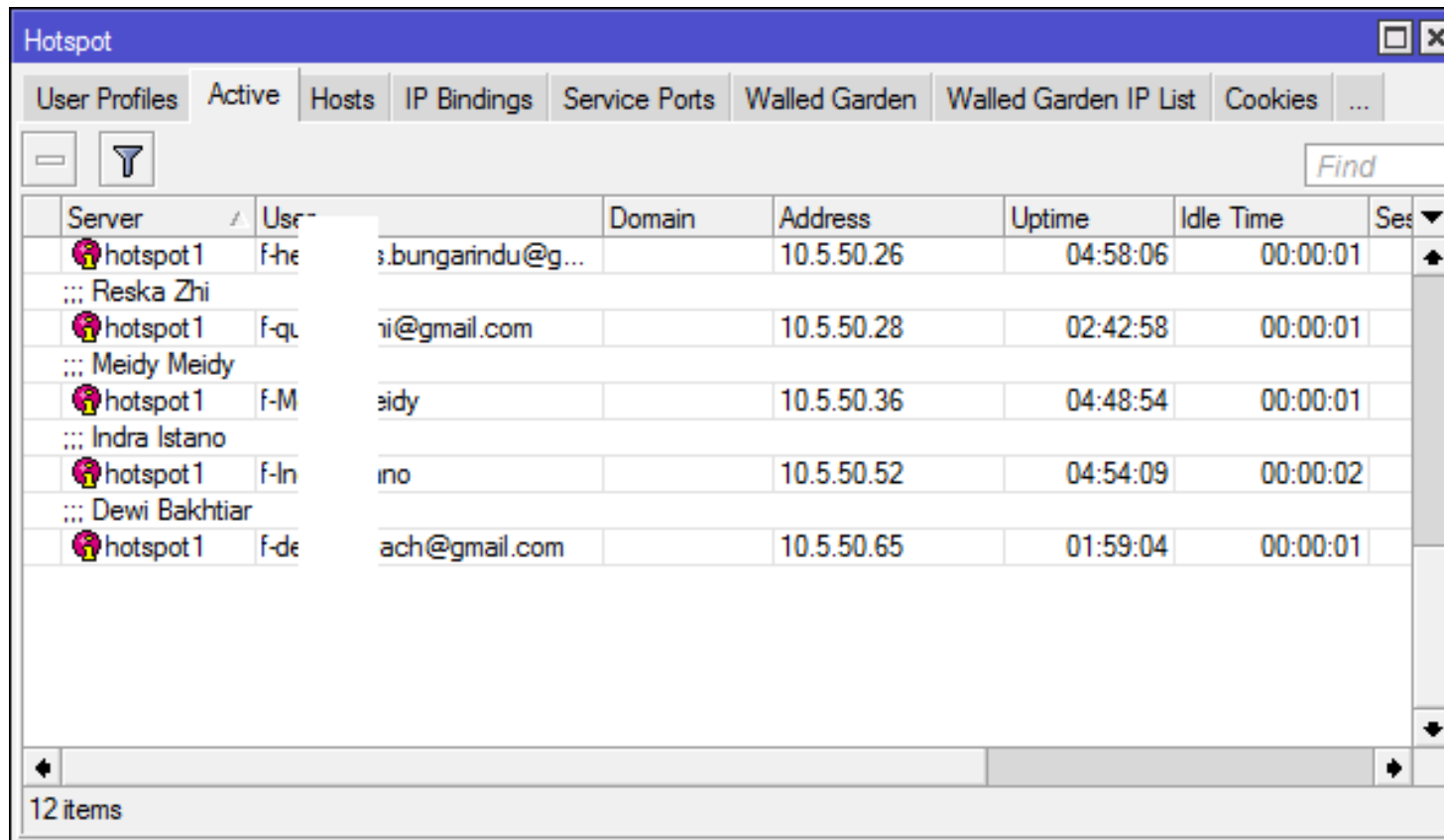


The screenshot shows the Mikrotik Hotspot Users interface. At the top, there are tabs for 'Server Profiles', 'Users', 'User Profiles', 'Active', 'Hosts', 'IP Bindings', 'Service Ports', and 'Walled Garden'. Below the tabs are several icons and buttons: a plus sign, a minus sign, a checkmark, an 'X' mark, a document icon, a funnel icon, and two buttons labeled 'Reset Counters' and 'Reset All Counters'. A search box labeled 'Find' is on the right. The main area is a table with columns: 'Server', 'Name', 'Address', 'MAC Address', 'Profile', and 'Uptime'. The table contains several rows of user data, including an 'admin' user and several users with 'social\_login' profiles. The status 'all' is shown in the 'Server' column for each user. The table is scrollable, and the bottom status bar indicates '42 items'.

Server	Name	Address	MAC Address	Profile	Uptime
::: counters and limits for trial users					
all	admin			default	00:00:00
::: Unchu Unchu					
all	f-delima	a26@...		social_login	00:00:00
::: Ifiyendri Ifiyendri					
all	f-ilfi011	@yaho...		social_login	00:00:00
::: Rahmat Hanelzon					
all	f-rahma	on@ro...		social_login	00:00:00
::: Reska Zhi					
all	f-quirar	mail.c...		social_login	00:00:00
::: Dewi Bakhtiar					
all	f-deew	@gmai...		social_login	00:00:00
::: Reza M Joon					
all	f-rezam,	@gmai...		social_login	00:03:20

# Step by Step Integrated Mikrotik Login Hotspot with social media

## In Mikrotik RouterOS



The screenshot shows the Mikrotik WinBox interface for the Hotspot configuration. The 'Active' tab is selected, displaying a table of active users. The table has columns for Server, Username, Domain, Address, Uptime, Idle Time, and Session. There are 12 items in total.

Server	Username	Domain	Address	Uptime	Idle Time	Session
hotspot1	f-he	s.bungarindu@g...	10.5.50.26	04:58:06	00:00:01	
hotspot1	f-ql	ni@gmail.com	10.5.50.28	02:42:58	00:00:01	
hotspot1	f-M	sidy	10.5.50.36	04:48:54	00:00:01	
hotspot1	f-ln	ino	10.5.50.52	04:54:09	00:00:02	
hotspot1	f-de	ach@gmail.com	10.5.50.65	01:59:04	00:00:01	

# Any Question?







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



[Indonetworkers.com](http://Indonetworkers.com)

Everytime Always Learn



Special Thanks to Shohibul Amin!

ขอบคุณ 😊