

# 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 ?



WIKIPEDIA

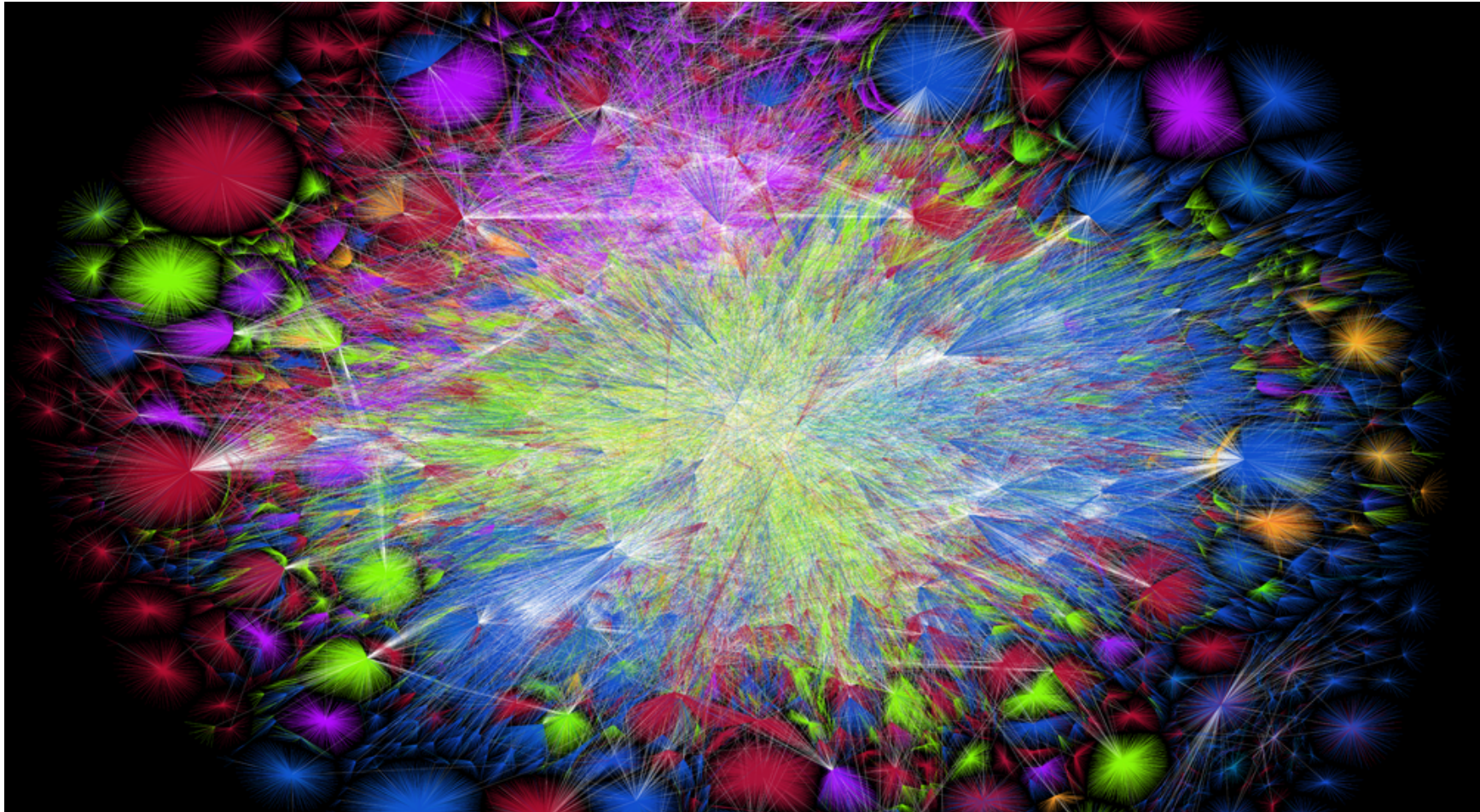
**The Internet :**  
**the global system of interconnected**  
**computer networks that use the**  
**Internet protocol suite (TCP/IP) to link**  
**devices worldwide.**



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)

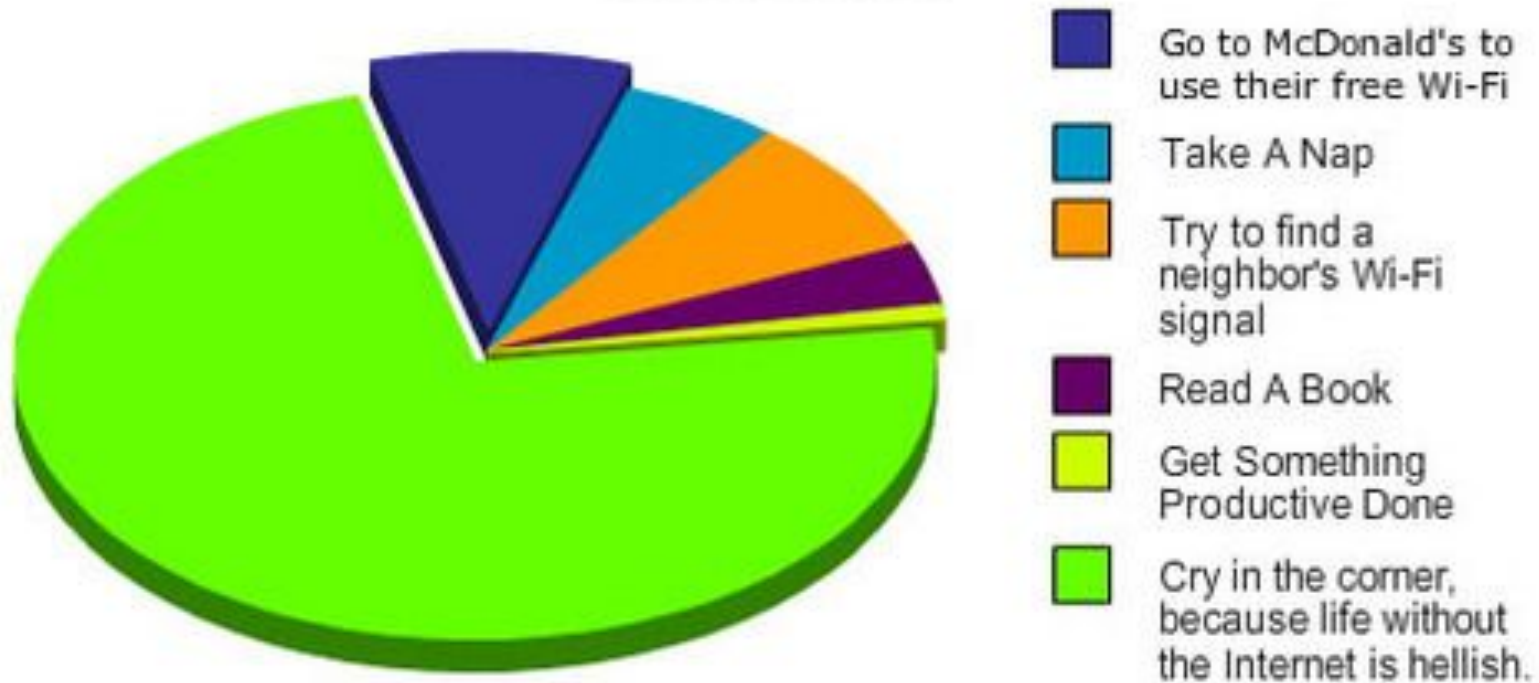
Latin America (LACNIC)

Asia Pacific (APNIC)

Africa (AFRINIC)

"Backbone" (highly connected networks)

# Things to Do Without Access To The Internet



 GraphJam.com

# The Top 20 Popular Websites in The World



List of websites

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

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# What is Social Media?



MikroTik

# 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



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.

# *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.

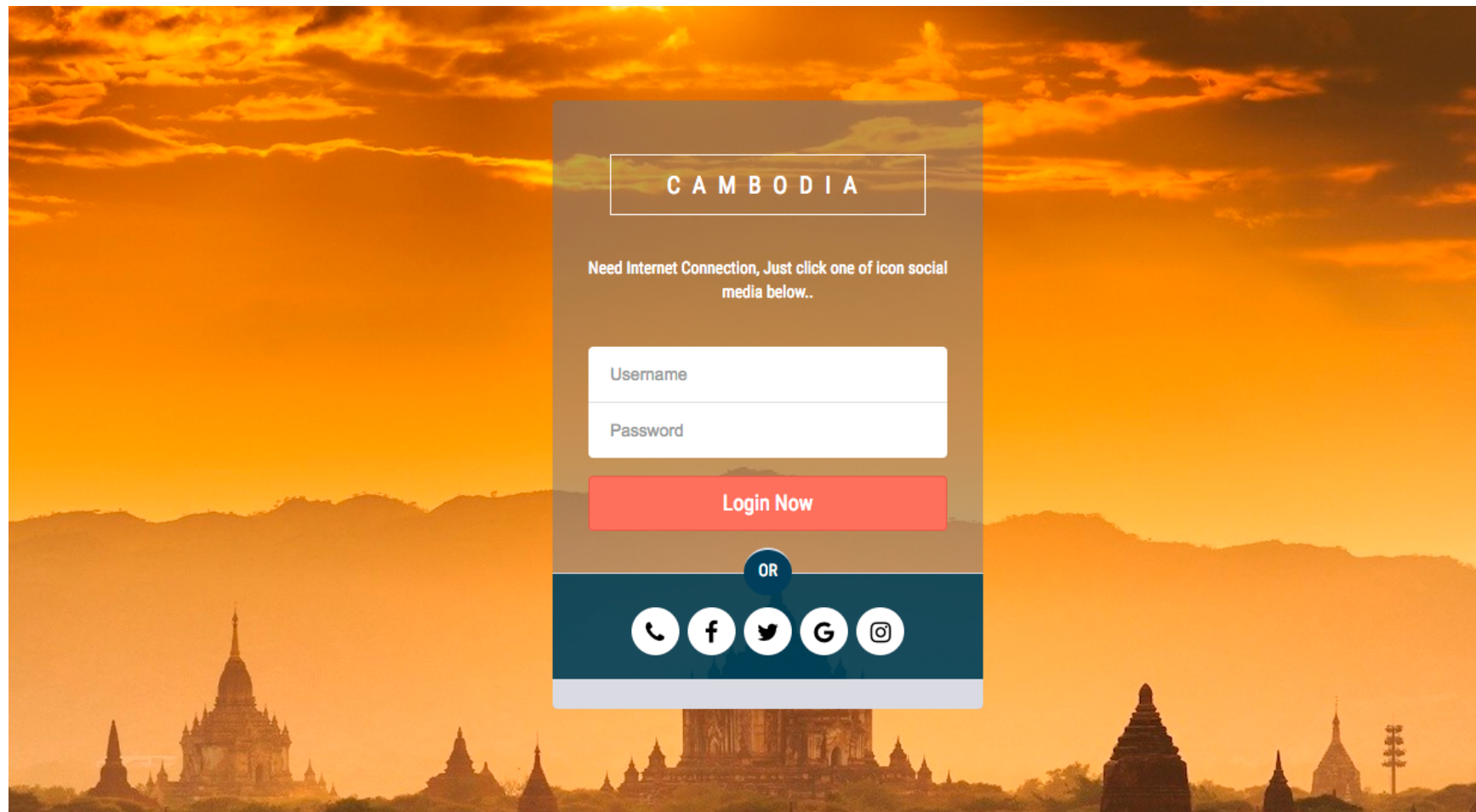


# Integrated *MikroTik* Login Hotspot With Social Media ?

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



C A M B O D I A

Need Internet Connection, Just click one of icon social media below..

Username

Password

Login Now

OR

☎ f t G i

# 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

Hotspot Server Profile <hsprof1>

General Login RADIUS

Name: hsprof1

Hotspot Address: 10.5.50.1

DNS Name: hotspot.wifi

HTML Directory: hotspot

HTML Directory Override:

Rate Limit (rx/tx):

HTTP Proxy:

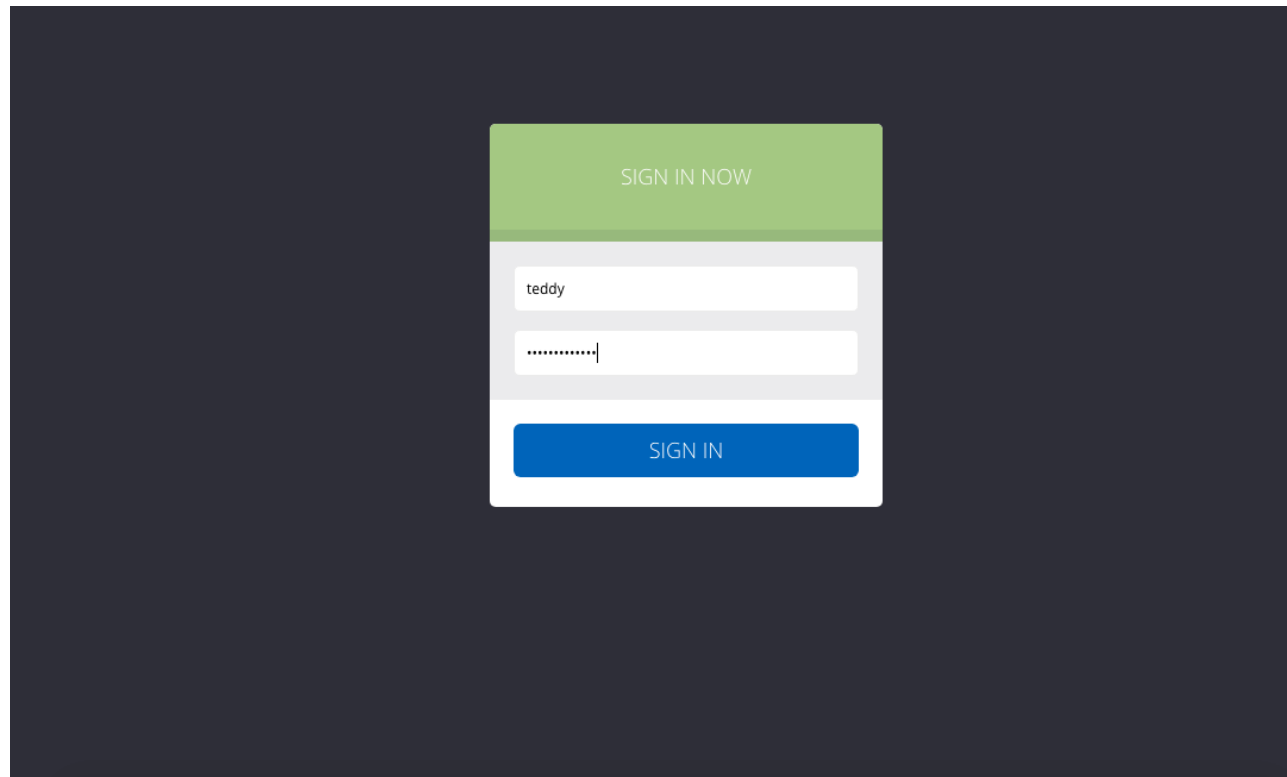
HTTP Proxy Port: 0

SMTP Server:

OK Cancel Apply Copy Remove

# Step by Step Integrated Mikrotik Login Hotspot with social media

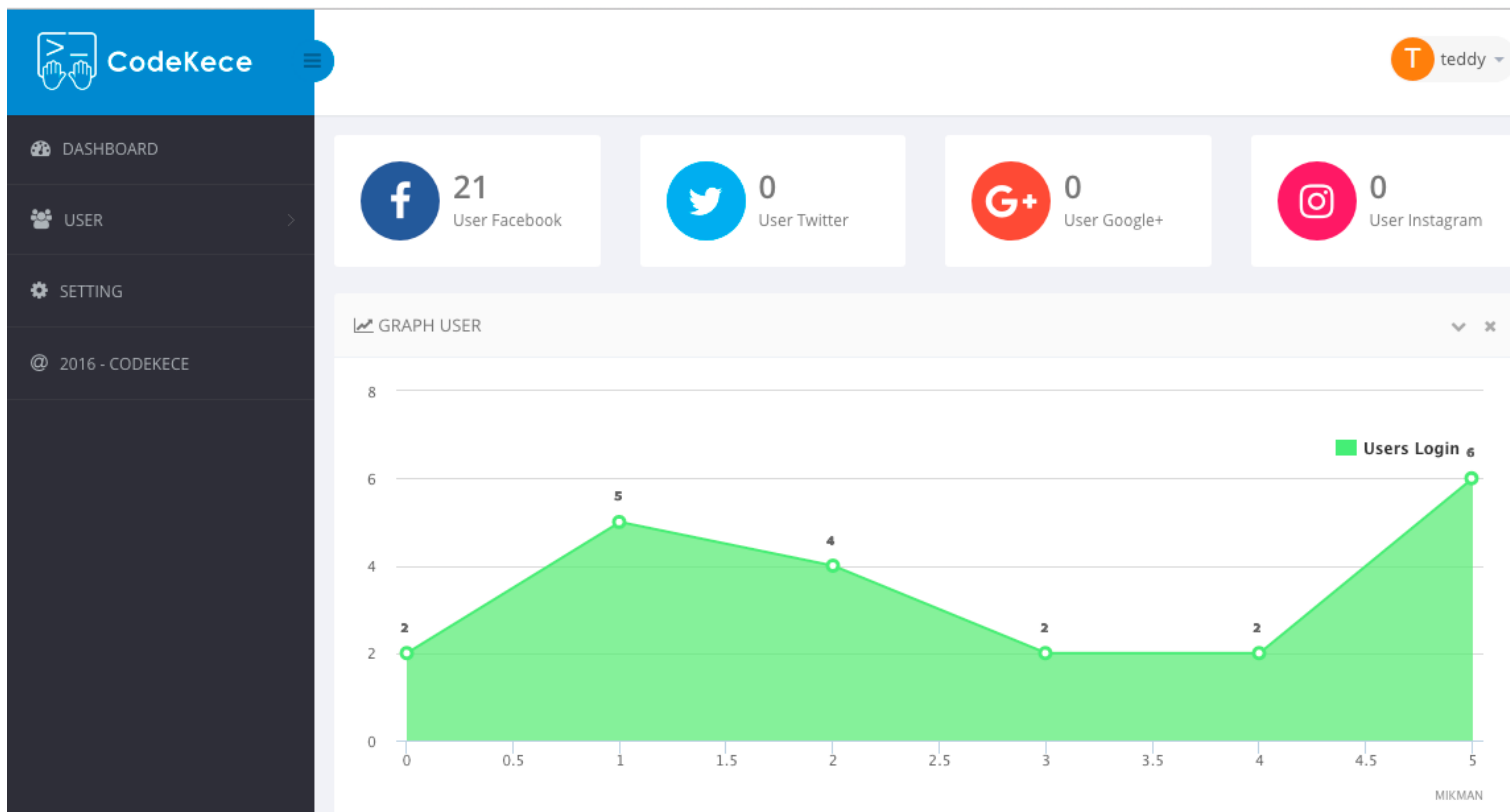
- Login Admin area



A screenshot of the Mikrotik Hotspot Login Admin area. The interface is centered on a dark gray background. It features a white login box with a green header bar containing the text "SIGN IN NOW". Below the header, there are two input fields: the first contains the username "teddy", and the second contains a masked password "\*\*\*\*\*". At the bottom of the login box is a blue button labeled "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

CodeKece

T teddy

Well done! You successfully change Social Setting.

SETTING

TITLE : CAMBODIA

DESCRIPTION : Need Internet Connection, Just click one of icon social media below..

IP ADDRESS : router.michaelganteng.com 87.

USERNAME : siganteng

PASSWORD : omteddyapakabar##

# Step by Step Integrated Mikrotik Login Hotspot with social media

- Sosial Setting

The screenshot displays the 'Social Setting' configuration page in the CodeKece Mikrotik Hotspot interface. The left sidebar shows the navigation menu with 'DASHBOARD', 'USER', and 'SETTING' options. The main content area contains the following configuration fields:

| 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 : | 8ec                             | 9571bcf4                                         |
| FACEBOOK PAGE URL :       |                                 |                                                  |
| TWITTER CONSUMER KEY :    | BGc                             |                                                  |
| TWITTER CONSUMER SECRET : | cDA                             | yjYFAKFxhLEfPaxCmVzYKuK1YchoX                    |
| GOOGLE CLIENT ID :        | 515                             | eo6skrp5qbqsvgq7md213.apps.googleusercontent.com |
| GOOGLE CLIENT SECRET :    | MB                              | /                                                |

# Step by Step Integrated Mikrotik Login Hotspot with social media

- Sosial Setting

The screenshot shows the 'Sosial Setting' page in the CodeKece web interface. The sidebar on the left contains the following items: 'DASHBOARD', 'USER', 'SETTING', and '@ 2016 - CODEKECE'. The main content area has a header with the CodeKece logo and a user profile 'teddy'. The settings are organized into sections:

- FACEBOOK PAGE URL :** [Empty text field]
- TWITTER CONSUMER KEY :** [BGo] [Empty text field]
- TWITTER CONSUMER SECRET :** [cDAf] [FxbLEfPaxCmVzYKuK1YchoX]
- GOOGLE CLIENT ID :** [5152] [5qbqsvgq7md213.apps.googleusercontent.com]
- GOOGLE CLIENT SECRET :** [MBff] [Empty text field]
- GOOGLE HOME URL :** [http:] [Empty text field]
- INSTAGRAM APP ID :** [6db5] [969]
- INSTAGRAM APP SECRET KEY :** [3691] [1a06]

At the bottom of the form is a blue button labeled 'UPDATE'.

# Step by Step Integrated Mikrotik Login Hotspot with social media

- Sosial Setting

The screenshot shows the 'Sosial Setting' page in the CodeKece web interface. The sidebar on the left contains the following items: 'DASHBOARD', 'USER', 'SETTING', and '@ 2016 - CODEKECE'. The main content area is titled 'Sosial Setting' and contains the following input fields:

| Field Name                 | 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  |

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

## 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_
```

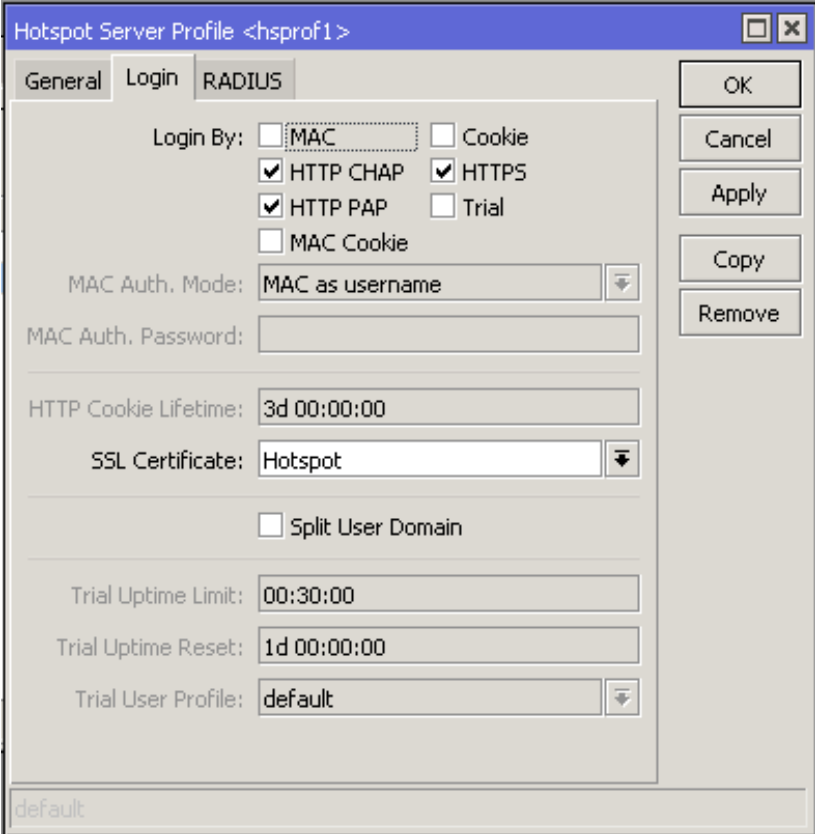


## Step by Step Integrated Mikrotik Login Hotspot with social media

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>' window with the 'Login' tab selected. The 'Login By' section has 'MAC' selected, with 'HTTP CHAP' and 'HTTP PAP' checked. The 'MAC Auth. Mode' is set to 'MAC as username'. The 'HTTP Cookie Lifetime' is '3d 00:00:00'. The 'SSL Certificate' is 'Hotspot'. The 'Trial Uptime Limit' is '00:30:00', 'Trial Uptime Reset' is '1d 00:00:00', and 'Trial User Profile' is 'default'. Buttons for 'OK', 'Cancel', 'Apply', 'Copy', and 'Remove' are on the right.

| Field                  | Value                                                                                                                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Login By               | <input checked="" type="checkbox"/> MAC <input type="checkbox"/> Cookie                                                                                                                                       |
| Authentication Methods | <input checked="" type="checkbox"/> HTTP CHAP <input checked="" type="checkbox"/> HTTPS<br><input checked="" type="checkbox"/> HTTP PAP <input type="checkbox"/> Trial<br><input type="checkbox"/> MAC Cookie |
| MAC Auth. Mode         | MAC as username                                                                                                                                                                                               |
| MAC Auth. Password     |                                                                                                                                                                                                               |
| HTTP Cookie Lifetime   | 3d 00:00:00                                                                                                                                                                                                   |
| SSL Certificate        | Hotspot                                                                                                                                                                                                       |
| Split User Domain      | <input type="checkbox"/>                                                                                                                                                                                      |
| Trial Uptime Limit     | 00:30:00                                                                                                                                                                                                      |
| Trial Uptime Reset     | 1d 00:00:00                                                                                                                                                                                                   |
| Trial User Profile     | default                                                                                                                                                                                                       |

# Step by Step Integrated Mikrotik Login Hotspot with social media

In Mikrotik RouterOS

Hotspot

Users User Profiles Active Hosts IP Bindings Service Ports Walled Garden Walled Garden IP List ...

+ - Filter Find

| 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          |

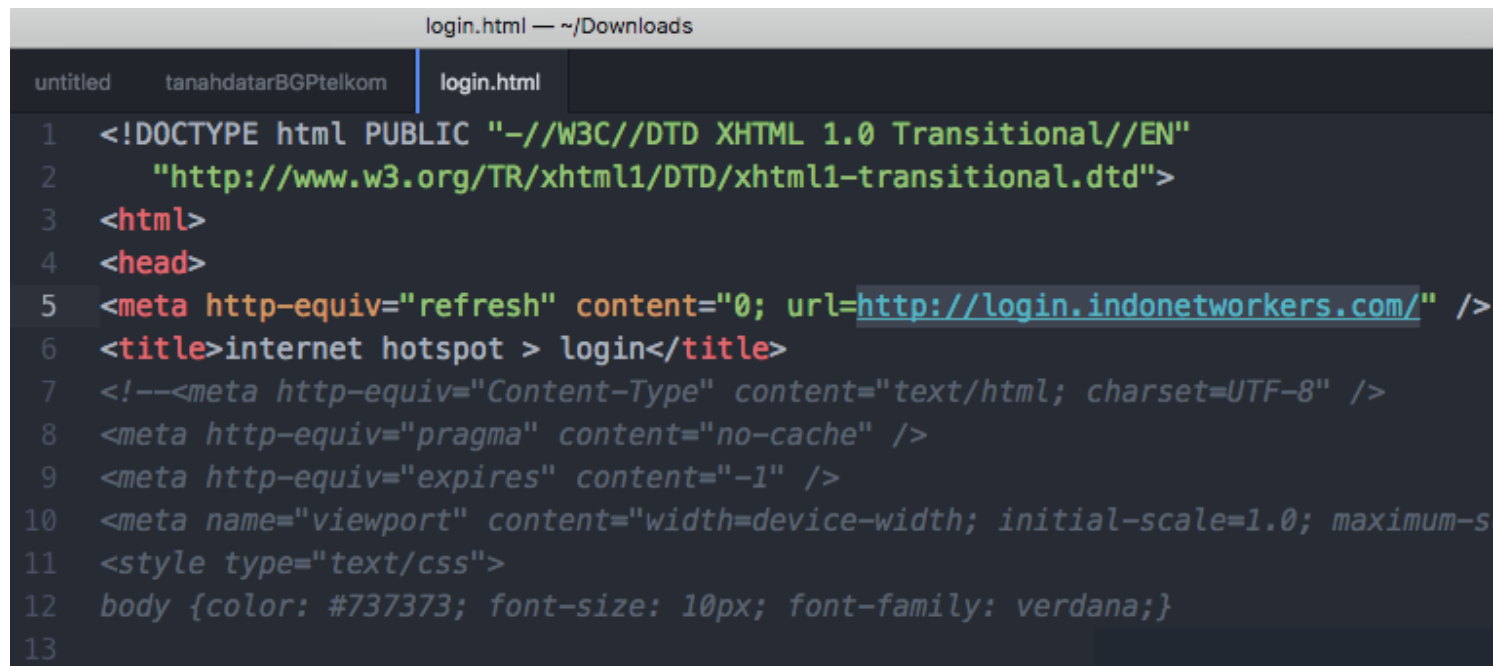
3 items

# Step by Step Integrated Mikrotik Login Hotspot with social media

## In Mikrotik RouterOS

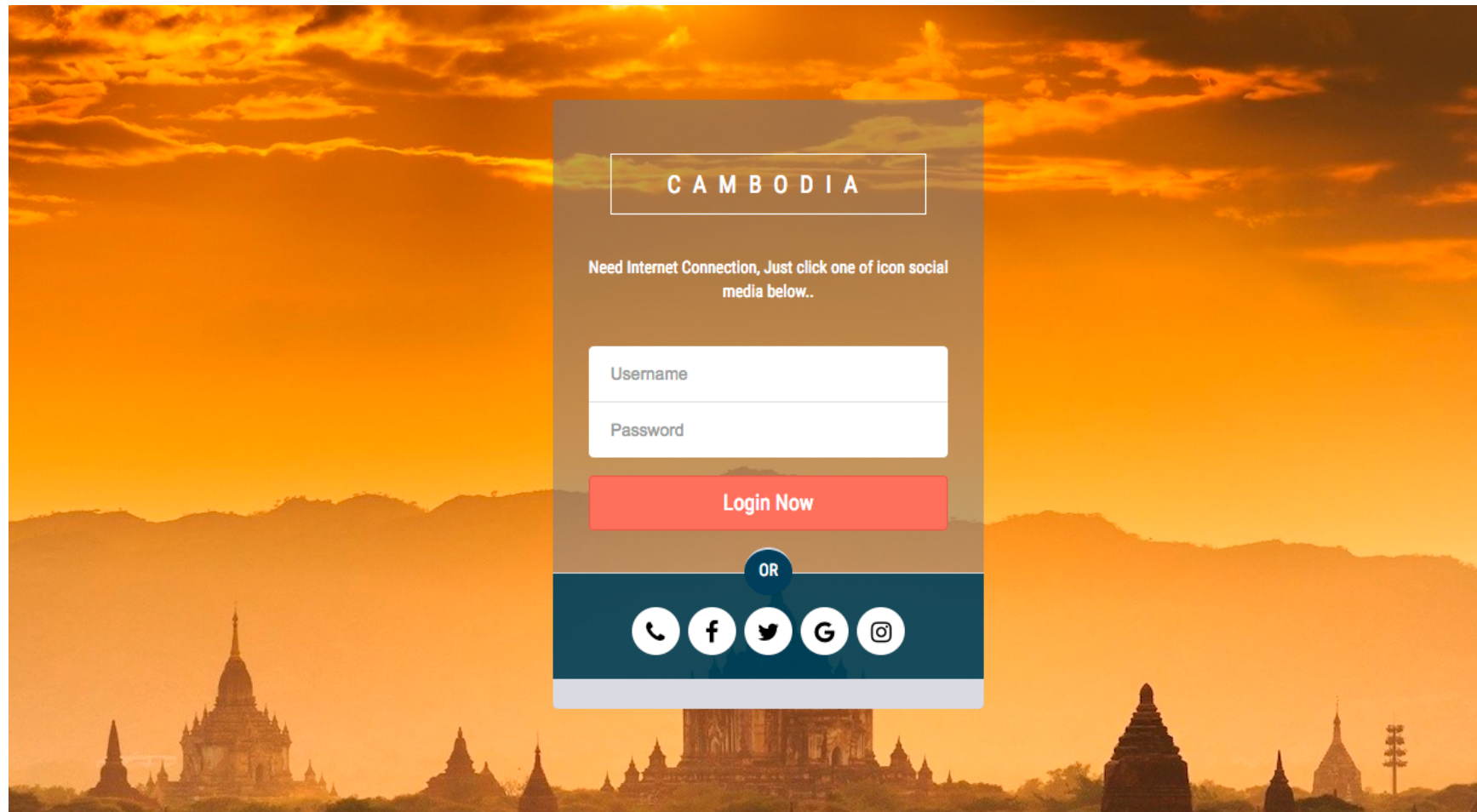
Open file login.htm in hotspot folder edit url with your domain.

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

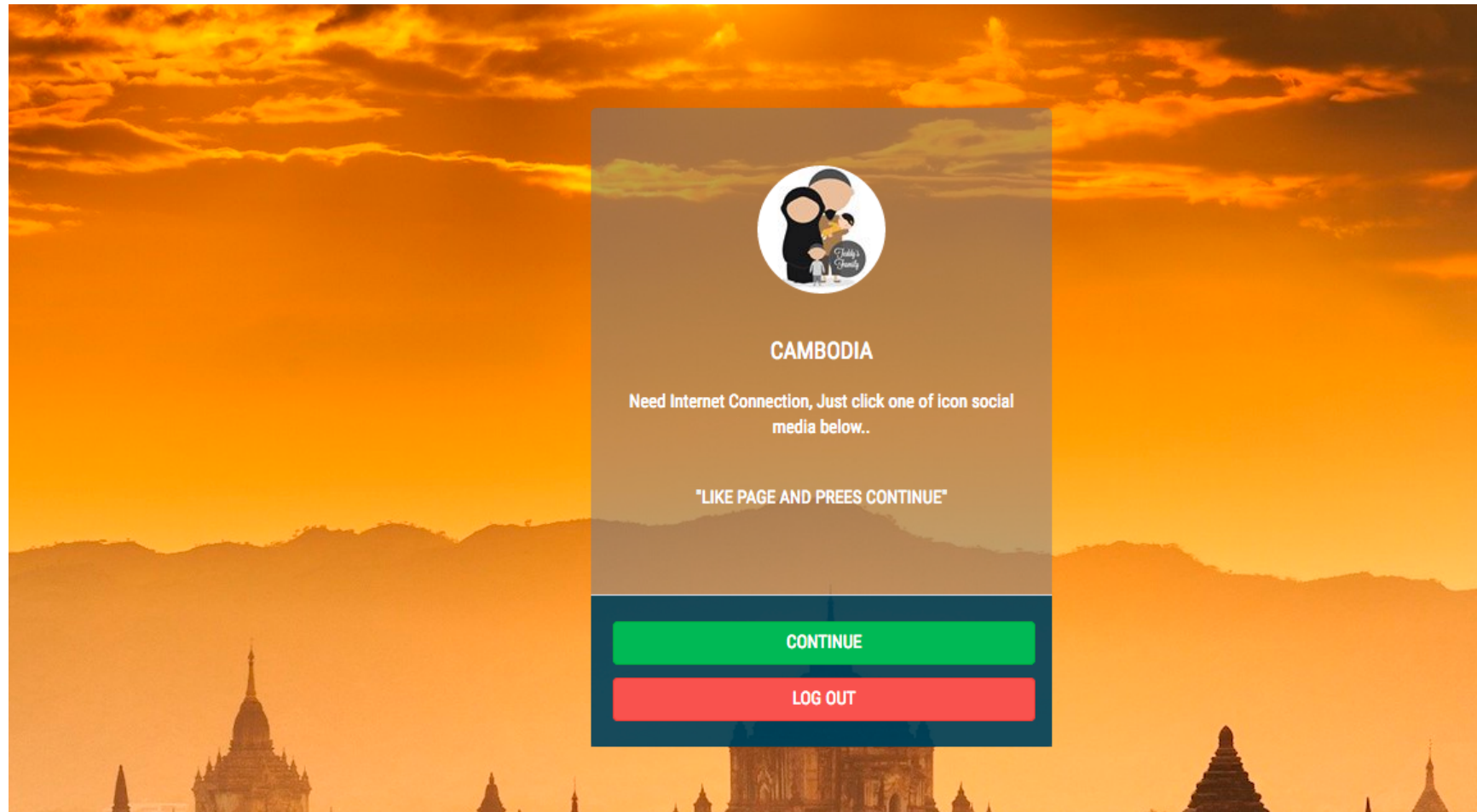


```
login.html — ~/Downloads
untitled  tanahdatarBGPtelkom  login.html
1  <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
2    "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
3  <html>
4  <head>
5  <meta http-equiv="refresh" content="0; url=http://login.indonetworkers.com/" />
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

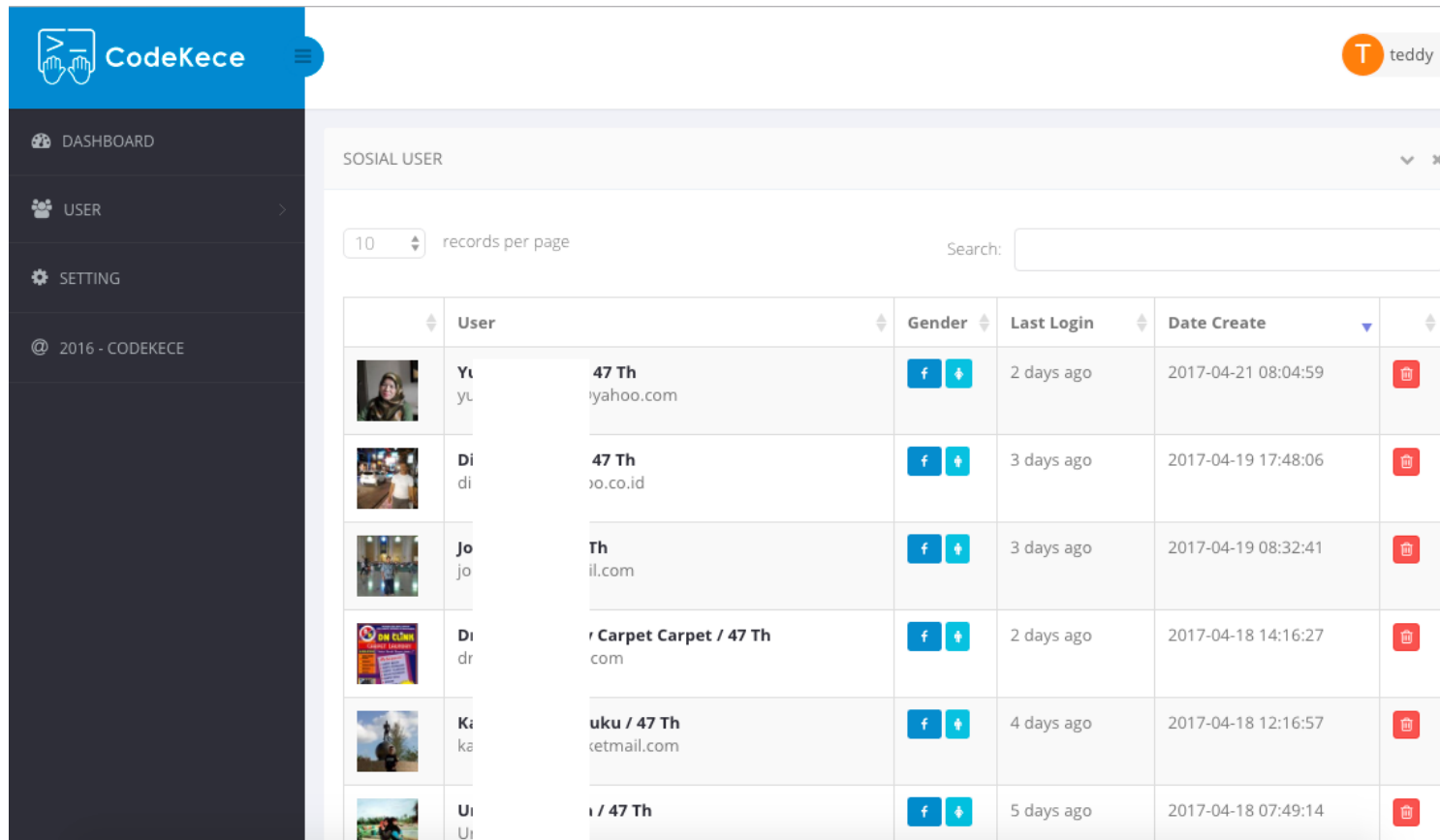


## Step by Step Integrated Mikrotik Login Hotspot with social media



# Step by Step Integrated Mikrotik Login Hotspot with social media

- Sosial Media User



CodeKece

T teddy

DASHBOARD

USER

SETTING

© 2016 - CODEKECE

SOSIAL USER

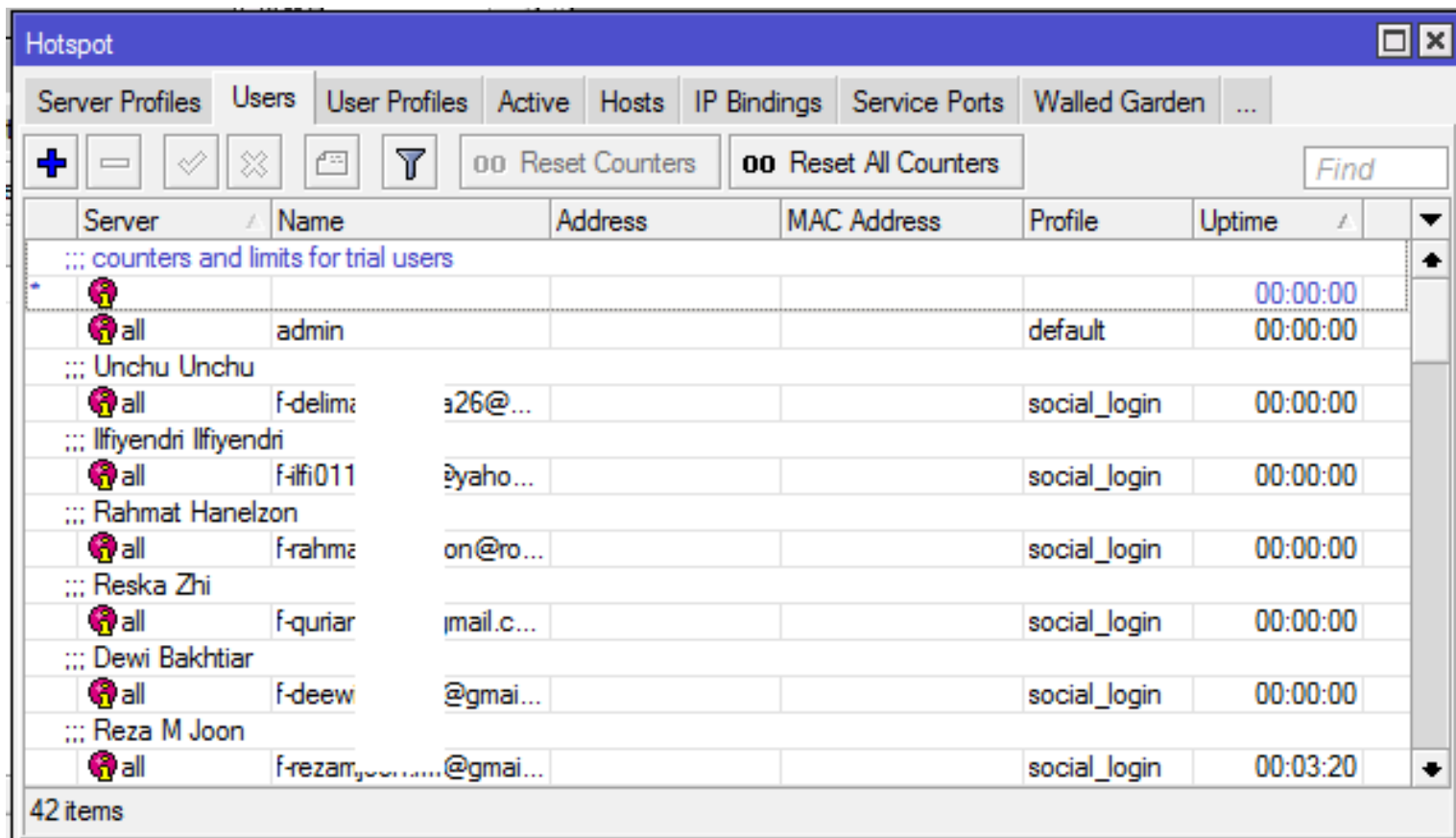
10 records per page

Search:

| User                                                                                                                       | Gender | Last Login | Date Create         |
|----------------------------------------------------------------------------------------------------------------------------|--------|------------|---------------------|
|  Yuliyah<br>yuliyah@yahoo.com             | f      | 2 days ago | 2017-04-21 08:04:59 |
|  Didi<br>dididi@co.id                    | f      | 3 days ago | 2017-04-19 17:48:06 |
|  Jojo<br>jojo@il.com                    | f      | 3 days ago | 2017-04-19 08:32:41 |
|  Didi<br>r Carpet Carpet / 47 Th<br>com | f      | 2 days ago | 2017-04-18 14:16:27 |
|  Kika<br>kika@etmail.com                | f      | 4 days ago | 2017-04-18 12:16:57 |
|  Uti<br>uti / 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



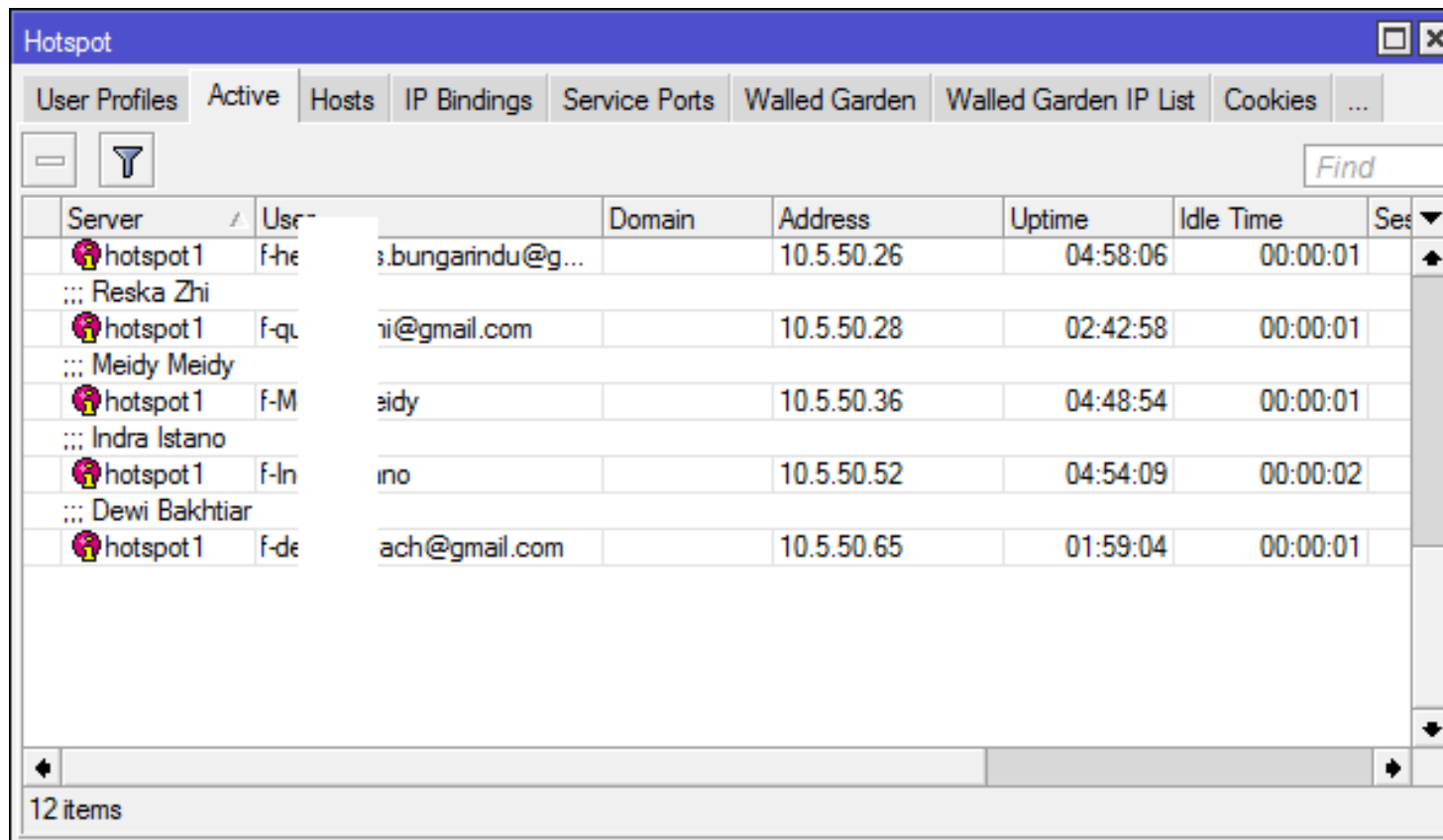
The screenshot shows the Mikrotik WinBox interface for the Hotspot Users list. The window title is 'Hotspot'. The 'Users' tab is selected. The interface includes a toolbar with icons for adding, deleting, and filtering users, as well as buttons for 'Reset Counters' and 'Reset All Counters'. A search bar labeled 'Find' is on the right. The table below lists the users, including their profile, name, address, MAC address, and uptime. The list is currently showing 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 |
| ::: Ilfiyendri Ilfiyendri               |           |           |             |              |          |
| 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-quriar  | mail.c... |             | social_login | 00:00:00 |
| ::: Dewi Bakhtiar                       |           |           |             |              |          |
| all                                     | f-deewi   | @gmai...  |             | social_login | 00:00:00 |
| ::: Reza M Joon                         |           |           |             |              |          |
| all                                     | f-rezam,  | @gmai...  |             | social_login | 00:03:20 |

42 items

# Step by Step Integrated Mikrotik Login Hotspot with social media

## In Mikrotik RouterOS



The screenshot shows the Mikrotik WinBox interface with the 'Hotspot' window open and the 'Active' tab selected. The window displays a table of active users with columns for Server, Username, Domain, Address, Uptime, Idle Time, and Session. The table contains 12 items, with the first 7 visible. The status bar at the bottom indicates '12 items'.

| 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      | aidy              | 10.5.50.36 | 04:48:54 | 00:00:01  |         |
| hotspot1 | f-In     | 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**



**Special Thanks to Shohibul Amin!**

ขอบคุณ 😊