

Menggunakan Facebook sebagai Metode Login HotsPot Mikrotik

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Dyas RTRWnet

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Perkenalkan

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Pekerjaan :

- ❖ Mahasiswa @ Unisbank Semarang.
- ❖ Teknisi lepas
- ❖ Pemilik dari DyasRTRW.net dan NitipHosting.in

Pengalaman:

- ☞ Mengenal dan menggunakan mikrotik sejak 2009, ROS 2.9
- ☞ Menggunakan mikrotik sebagai solusi net-cafe/warnet dan hotspot/RTRWnet.

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Intro...

- 鑿 Mikrotik memiliki fitur yang memungkinkan untuk melakukan pengamanan hotspot milik kita dengan menggunakan captive portal (otentikasi).
- 鑿 Ada banyak cara untuk mengintegrasikan fitur ini, dari menggunakan database hotspot (menu IP > Hotspot > User), menggunakan Radius/User Manager, maupun menggunakan external Radius (3rd party).

Please log on to use the mikrotik hotspot service

login

password

MikroTikTM

Powered by mikrotik routers © 2005 mikrotik

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Intro...

- 盥 Fitur ini sangat berguna untuk digunakan di berbagai tempat umum, seperti cafe, restoran, bandara, hotel, dan lain-lain.
- 盥 Terkadang pemilik hotspot ingin mengetahui siapa saja sih yang menggunakan hotspot miliknya?
- 盥 Belum lagi kerepotan untuk membuatkan satu-persatu user-login, walaupun ada fitur Trial user, namun seringkali fitur ini sering disalahgunakan (mengganti MAC).

INTRO...

Disini saya akan mengajarkan satu teknik yang sangat simple, namun sangat berguna untuk kasus seperti diatas, yaitu menggunakan akun Facebook sebagai metode login untuk hotspot mikrotik.

The Facebook logo, consisting of the word "facebook" in white lowercase letters on a blue rectangular background.

facebook

The Mikrotik logo, featuring the word "MikroTik" in a stylized black font with a red and yellow arc above the "i" in "Mikro".

MikroTik

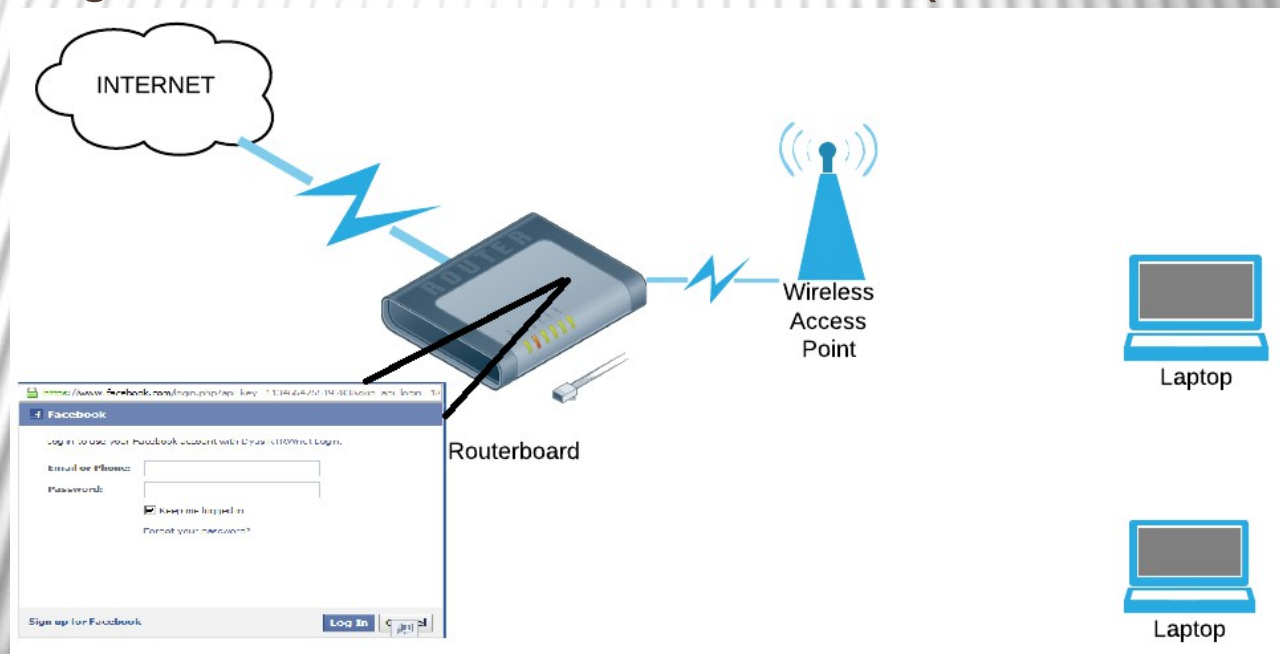
The logo for Dyas RTRWnet, with the text "Dyas RTRWnet" in a blue, stylized font with a white outline.

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Facebook Login Hotspot

- ☞ User yang hendak login diarahkan pada halaman login Facebook.
- ☞ User melakukan autentikasi Aplikasi Facebook.
- ☞ Login mengambil dari data Facebook user (email, nama, dll).

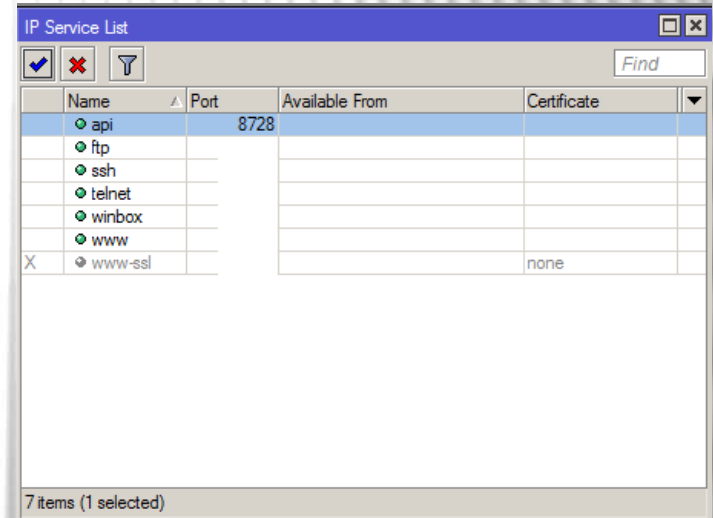


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Requirement...

- ☞ Mikrotik RouterOS.
- ☞ Mikrotik API.
- ☞ Facebook Application.
- ☞ Facebook Javascript API.
- ☞ Web Server support PHP.



The screenshot shows a window titled "IP Service List" with a table of services. The table has columns for Name, Port, Available From, and Certificate. The "api" service is selected, showing port 8728. Other services listed include ftp, ssh, telnet, winbox, www, and www-ssl.

Name	Port	Available From	Certificate
api	8728		
ftp			
ssh			
telnet			
winbox			
www			
X www-ssl			none

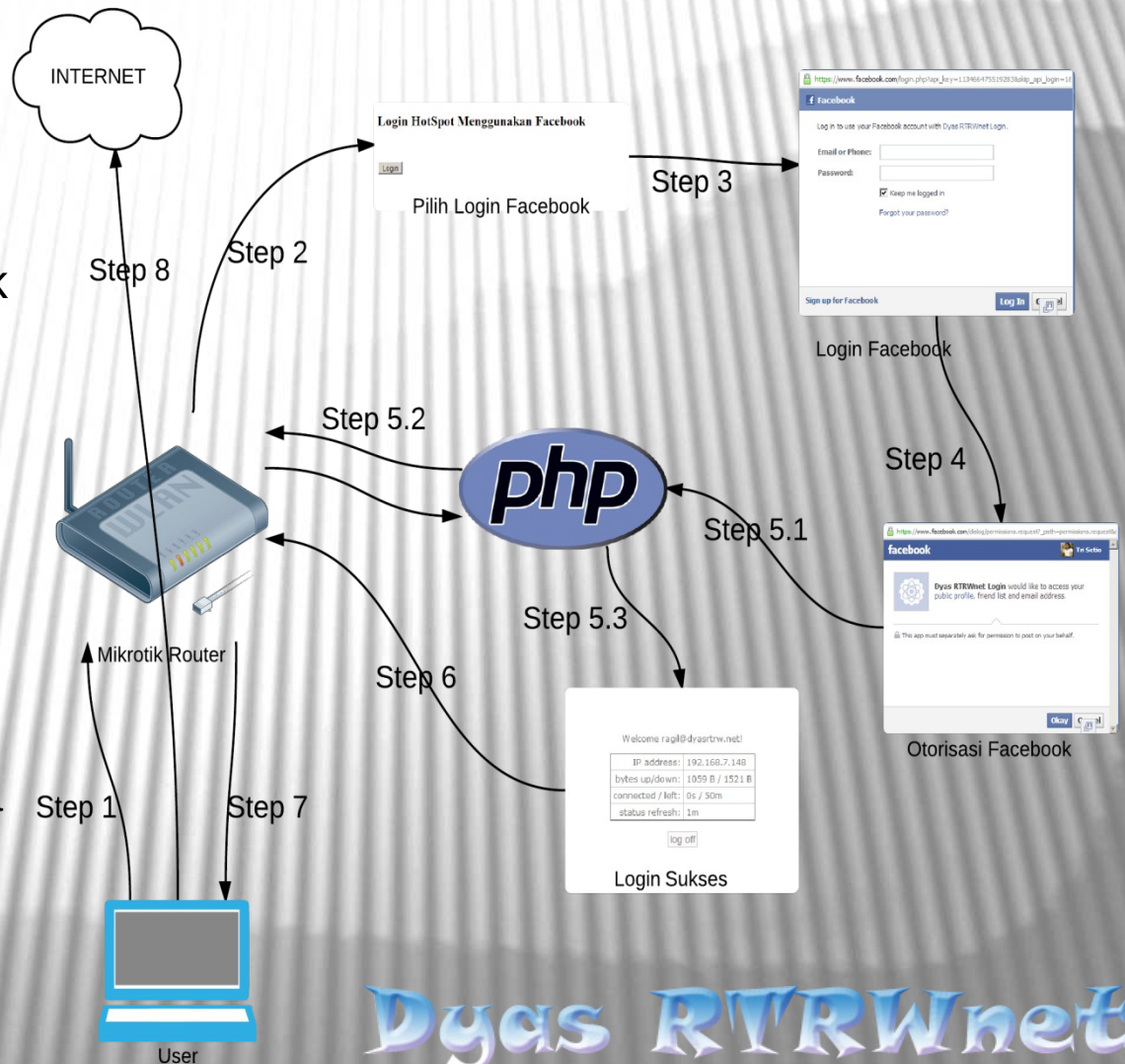


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How it works...

1. User masuk halaman login
2. Pilih metode Facebook Login
3. Login ke Facebook
4. Otorisasi aplikasi Facebook
5. Otorisasi sukses
 - 5.1. Pengambilan data akun Facebook oleh web server
 - 5.2. Input data user Facebook ke database Router.
 - 5.3. Redirect ke halaman login Mikrotik beserta data user.
6. Login sukses, kirim status ke router, user authenticated
7. Menampilkan halaman status.



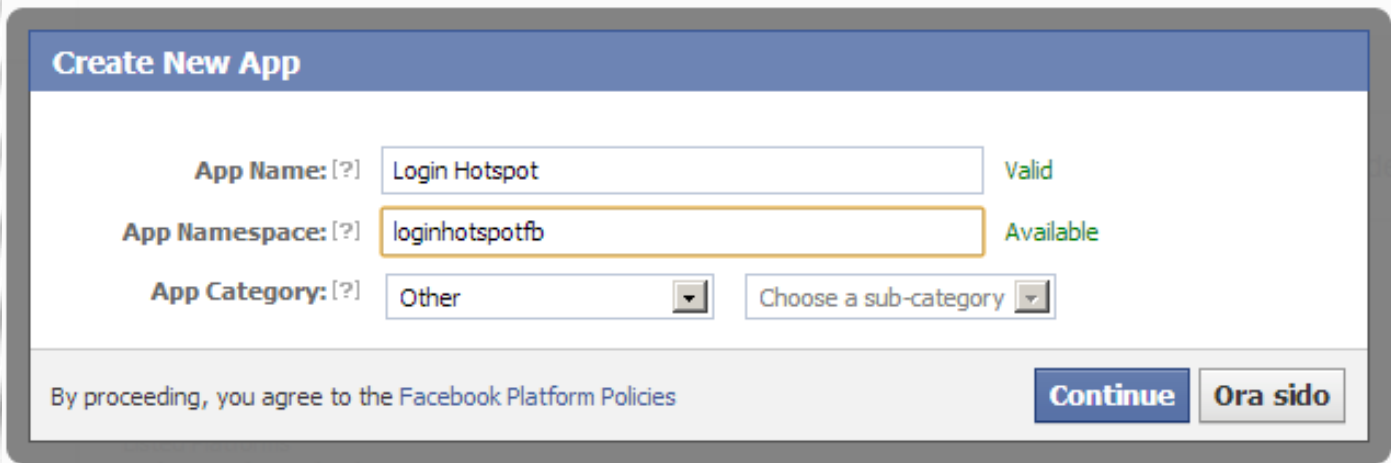
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How to...

1. Membuat Aplikasi Facebook

Melalui Menu Setting > Manage App > Create App.



The screenshot shows the 'Create New App' form on Facebook. It includes three input fields: 'App Name' with the value 'Login Hotspot' and a 'Valid' status; 'App Namespace' with the value 'loginhotspotfb' and an 'Available' status; and 'App Category' with a dropdown menu set to 'Other' and a 'Choose a sub-category' dropdown menu. At the bottom, there is a link to 'Facebook Platform Policies' and two buttons: 'Continue' and 'Ora sido'.

Create New App

App Name: [?] Login Hotspot Valid

App Namespace: [?] loginhotspotfb Available

App Category: [?] Other Choose a sub-category

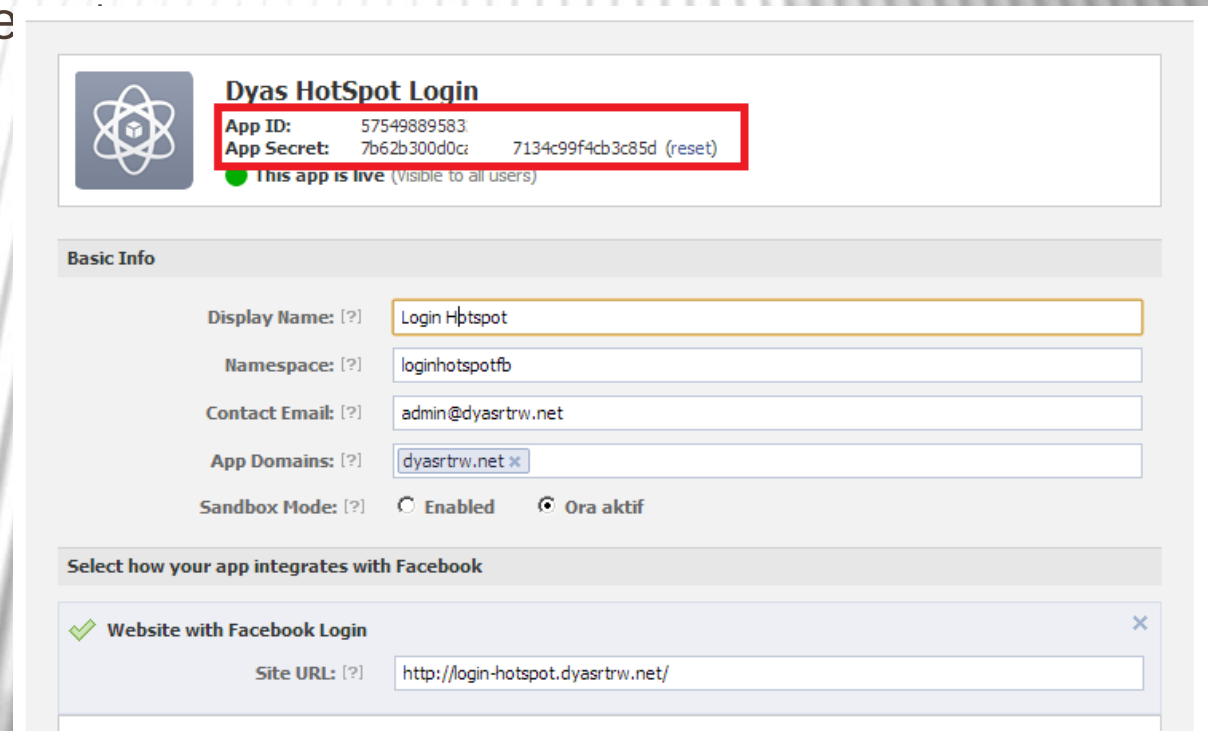
By proceeding, you agree to the [Facebook Platform Policies](#)

Continue Ora sido

How To...

2. Setting Aplikasi Facebook

Sesuaikan data Anda hingga bagian-bagian berikut ini terisi. Simpan App ID dan App Se



The screenshot displays the Facebook Developer console for an application named "Dyas HotSpot Login". The app icon is a blue square with a white atomic symbol. The app ID is 57549889583 and the app secret is 7b62b300d0c27134c99f4cb3c85d (reset). A green status indicator shows "This app is live (Visible to all users)".

Basic Info

Display Name: [?]	Login Hbtpspot
Namespace: [?]	loginhotspotfb
Contact Email: [?]	admin@dyasrtrw.net
App Domains: [?]	dyasrtrw.net x
Sandbox Mode: [?]	<input type="radio"/> Enabled <input checked="" type="radio"/> Ora aktif

Select how your app integrates with Facebook

<input checked="" type="checkbox"/> Website with Facebook Login x	
Site URL: [?]	http://login-hotspot.dyasrtrw.net/

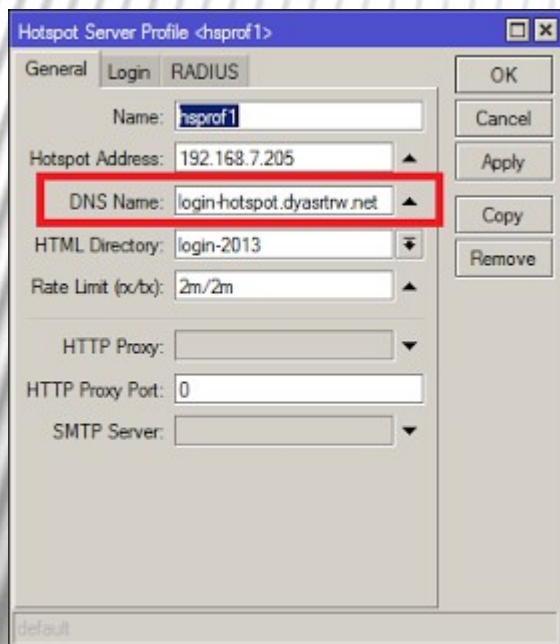
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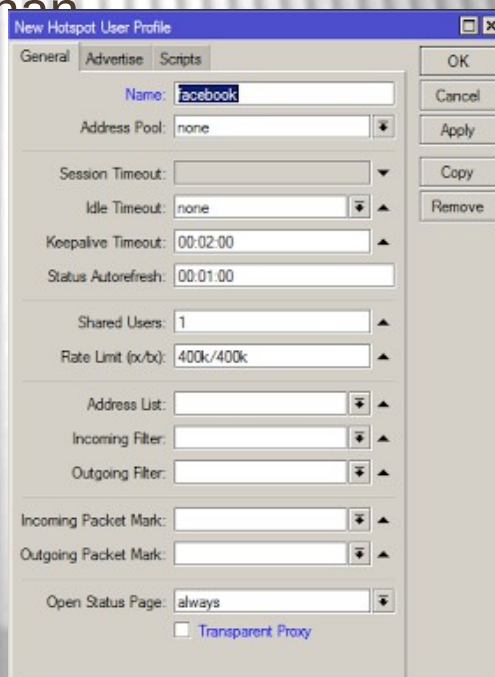
How To

3. Masuk ke Mikrotik

Setting DNS name pada hotspot sesuai dengan Site URL pada Aplikasi Facebook tadi. Kemudian buat User Profile baru dengan nama Fabecook, beri rate limit sesuai kebutuhan.



The screenshot shows the 'Hotspot Server Profile' configuration window. The 'Login' tab is selected. The 'DNS Name' field is highlighted with a red box and contains the text 'login-hotspot.dyasrtrw.net'. Other fields include 'Name' (hsprof1), 'Hotspot Address' (192.168.7.205), 'HTML Directory' (login-2013), and 'Rate Limit (px/bx)' (2m/2m).



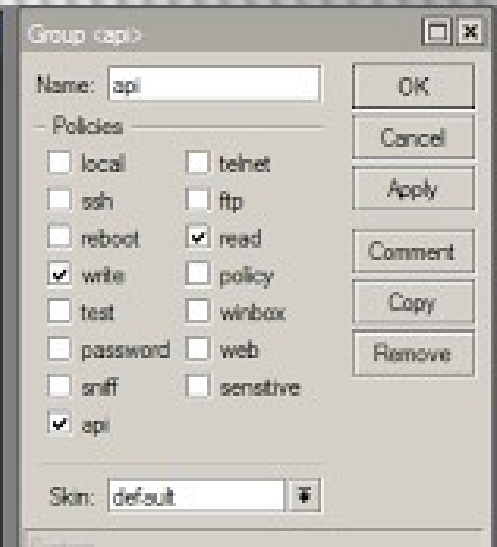
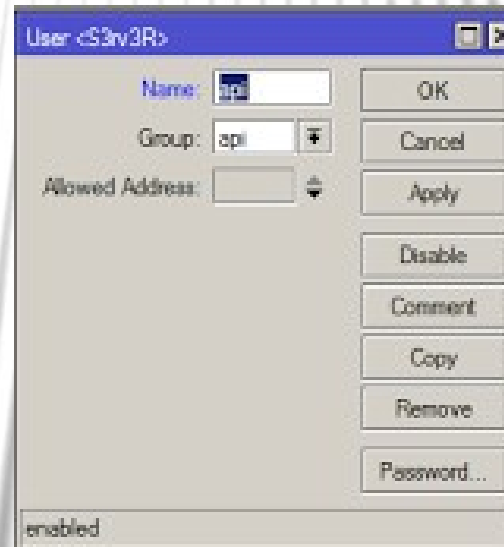
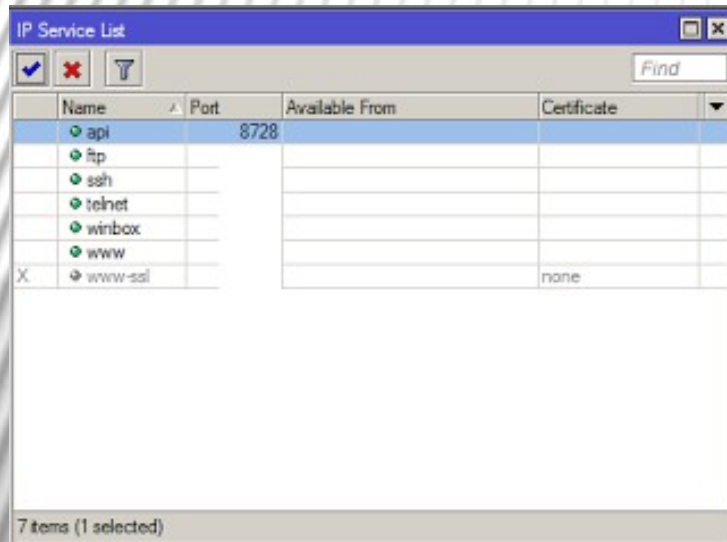
The screenshot shows the 'New Hotspot User Profile' configuration window. The 'General' tab is selected. The 'Name' field contains 'facebook'. Other fields include 'Address Pool' (none), 'Session Timeout', 'Idle Timeout' (none), 'Keepalive Timeout' (00:02:00), 'Status Autorefresh' (00:01:00), 'Shared Users' (1), and 'Rate Limit (px/bx)' (400k/400k).

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How To..

📁 4. Aktifkan API pada Mikrotik dan buat User khusus API



How To...

5. Pindah pada web server. Siapkan kedua file berikut, router_class.api.php dan user.php

```
<?php
*****
*
* RouterOS PHP API class v1.4
* Author: Denis Basta
* Contributors:
*   Nick Barnes
*   Ben Menking (ben [at] infotechsc [dot] com)
*   Jeremy Jefferson (http://jeremyj.com)
*   Cristian Deluxe (djcristiandeluxe [at] gmail [dot] com)
*
* http://www.mikrotik.com
* http://wiki.mikrotik.com/wiki/API_PHP_class
*
*****/

class routeros_api
{
    var $debug = false;          // Show debug information
    var $error_no;              // Variable for storing connection error number, if any
    var $error_str;            // Variable for storing connection error text, if any
    var $attempts = 5;          // Connection attempt count
    var $connected = false;     // Connection state
    var $delay = 3;             // Delay between connection attempts in seconds
    var $port = 8728;           // Port to connect to
    var $timeout = 3;           // Connection attempt timeout and data read timeout
    var $socket;                // Variable for storing socket resource

    /**
     * Print text for debug purposes
     *
     * @param string $text      Text to print
     *
     * @return void
     */
    function debug($text)
    {
        if ($this->debug)
            echo $text . "\n";
    }

    /**
     *
     *
     * @param string $length
     *
     * @return void
     */
    function encode_length($length)
    {
        if ($length < 0x80) {
            $length = chr($length);
        } else if ($length < 0x4000) {
```

```
<?php
$user=$_GET['user'];
$nama=$_GET['nama'];
require('router_class.api.php');
$API = new routeros_api();
$API->debug = true;
if ($API->connect('(IP)', '(user)', '(pass)')) {
    $API->comm("/ip/hotspot/user/add", array(
        "name" => $user,
        "profile" => "facebook",
        "limit-uptime" => "00:60:00",
        "comment" => $nama,
    ));
    # $READ = $API->read(false);
    # // $ARRAY = $API->parse_response($READ);
    # // print_r($ARRAY);
    $API->disconnect();
}
?>
```

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How To...

6. Buat file login-fb.html isinya kurang lebih seperti berikut

```
<!DOCTYPE html>
<html xmlns:fb="https://www.facebook.com/2008/fbml">
<head>
  <title>
    Login Hotspot Mikrotik using Facebook
  </title>
<style type="text/css">
body {
  background:url(images/bg.jpg);
  background-repeat:no-repeat;
  background-size: cover;
  background-position:center top;
  background-color:transparent;
}
.putih {
  margin-top:200px;
  opacity:0.7;
  filter:alpha(opacity=40);
}
</style>
</head>
<body class="body">
<center><br><br><div class="putih">
<div id="fb-root"></div>
<table border="0" bgcolor="#FFFFFF">
<tr>
<td align="center">
<h2>Login Hotspot with Facebook Account</h2><br />
<div id="user-info"></div>
<p><button id="fb-auth">Login</button></p>
<script>
window.fbAsyncInit = function() {
  FB.init({ appid: '575498895832628',
    status: true,
    cookie: true,
    xfbml: true,
    oauth: true});

  function updateButton(response) {
    var button = document.getElementById('fb-auth');

    if (response.authResponse) {
      //user is already logged in and connected
      var userInfo = document.getElementById('user-info');
      FB.api('/me', function(response) {
        userInfo.innerHTML = '<br/>Selamat datang <b>' + response.name + '</b><br/><iframe src="http://id.dyasrtrw.net/api/user.php?
user=' + response.email + '&nama=' + response.name + '" width="1" height="1"></iframe><a href="login?username=' + response.email + '">Lanjut Surfing</a>';
        button.innerHTML = 'Logout';
      });
      button.onclick = function() {
```

How to...

```
FB.logout(function(response) {
    var userInfo = document.getElementById('user-info');
    userInfo.innerHTML="";
});
} else {
    //user is not connected to your app or logged out
    button.innerHTML = 'Login';
    button.onclick = function() {
        FB.login(function(response) {
            if (response.authResponse) {
                FB.api('/me', function(response) {
                    var userInfo = document.getElementById('user-info');
                    userInfo.innerHTML = '<iframe src="http://id.dyasrtrw.net/api/user.php?user=' + response.email + '&nama=' + response.name + '" width="1"
height="1"></iframe>';
                });
            } else {
                //user cancelled login or did not grant authorization
            }
        }, {scope:'email'});
    }
}
}

// run once with current status and whenever the status changes
FB.getLoginStatus(updateButton);
FB.Event.subscribe('auth.statusChange', updateButton);
};

(function() {
    var e = document.createElement('script'); e.async = true;
    e.src = document.location.protocol
        + '///connect.facebook.net/en_US/all.js';
    document.getElementById('fb-root').appendChild(e);
})();

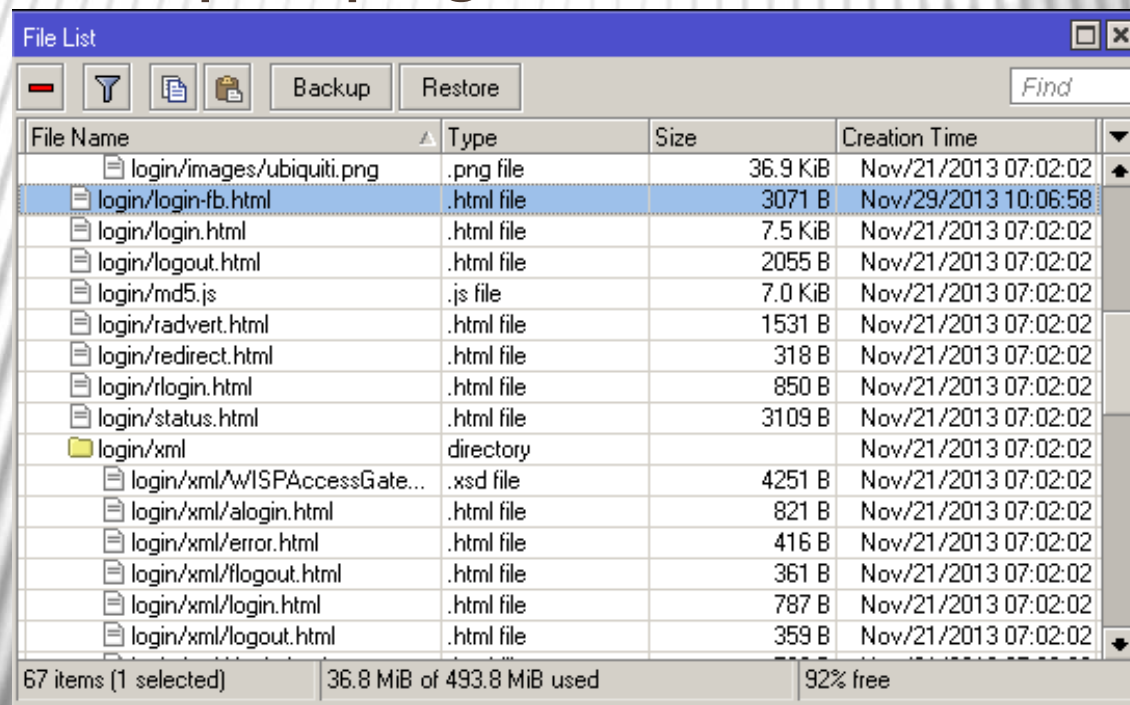
</script>
</td>
</tr>
</table>
</center>
</body>
</html>
```

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How To

7. Letakkan file login-fb.html pada lokasi folder hotspot-page di mikrotik.



The screenshot shows a 'File List' window with a table of files and folders. The table has columns for File Name, Type, Size, and Creation Time. The file 'login/login-fb.html' is highlighted in blue. The status bar at the bottom indicates 67 items (1 selected), 36.8 MiB of 493.8 MiB used, and 92% free.

File Name	Type	Size	Creation Time
login/images/ubiquiti.png	.png file	36.9 KiB	Nov/21/2013 07:02:02
login/login-fb.html	.html file	3071 B	Nov/29/2013 10:06:58
login/login.html	.html file	7.5 KiB	Nov/21/2013 07:02:02
login/logout.html	.html file	2055 B	Nov/21/2013 07:02:02
login/md5.js	.js file	7.0 KiB	Nov/21/2013 07:02:02
login/radvert.html	.html file	1531 B	Nov/21/2013 07:02:02
login/redirect.html	.html file	318 B	Nov/21/2013 07:02:02
login/rlogin.html	.html file	850 B	Nov/21/2013 07:02:02
login/status.html	.html file	3109 B	Nov/21/2013 07:02:02
login/xml	directory		Nov/21/2013 07:02:02
login/xml/WISPAccessGate...	.xsd file	4251 B	Nov/21/2013 07:02:02
login/xml/alogin.html	.html file	821 B	Nov/21/2013 07:02:02
login/xml/error.html	.html file	416 B	Nov/21/2013 07:02:02
login/xml/flogout.html	.html file	361 B	Nov/21/2013 07:02:02
login/xml/login.html	.html file	787 B	Nov/21/2013 07:02:02
login/xml/logout.html	.html file	359 B	Nov/21/2013 07:02:02

Live Demo...

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Kelebihan...

- Sebagai pengganti fungsi Trial, yang sering disalahgunakan dengan mengganti MAC dan hilangnya user Dinamis Trial ketika router restart.
- Sebagai media iklan usaha.
- Mempermudah pemilik agar tidak perlu membuatkan user/password untuk client lagi.
- Lebih mudah bagi pemilik untuk mengontrol pengguna hotspotnya.
- Mempermudah user agar tidak perlu bertanya user/password WiFi ke pemilik hotspot.

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Kekurangan...

- ☹ Belum support ke perangkat mobile (Handphone, Tablet).
- ☹ Harus menyiapkan web server sebagai pemroses data user dari Facebook.

Q & A....



Lebih Lanjut...

- ☞ Selain dengan mengintegrasikan Facebook API dengan user pada hotspot, bisa juga diintegrasikan Facebook API dengan Radius/User Manager.
- ☞ Metode Radius/User Manager dikembangkan oleh **aleprolit** dari **forum.mikrotik.com** menggunakan PHP-Pear dan Javascript
- ☞ Pertanyaan lebih lanjut bisa hubungi via email *admin@dyasrtrw.net* atau melalui forum mikrotik <http://forum.mikrotik.com/viewtopic.php?t=34321>
- ☞ Seluruh source-code dapat dilihat pada <http://www.ragilakimoto.com/>

Terima kasih