



# Build Mikrotik Wireless Hotspot with User Manager as RADIUS Server

Patrick KOUOBOU

Ingénieur MIAGE | [patrickouobou@kmp-solutions.com](mailto:patrickouobou@kmp-solutions.com) | 694339330

MIKROTIK USER MEETING CAMEROON  
26 Janvier 2018, HOTEL DJEUGA PALACE

# A propos de moi

- Patrick KOUOBOU
- Ingenieur MIAGE
- CEO of KMP SOLUTIONS CONSULTING
- Consultant SI chez Clarans Afrique
- Mikrotik Certified Consultant
- MTCNA, MTCWE, MTCRE, CCNA, LPIC-2, MCSA, MCITP, ITILv3, YSCT....
- [www.kmp-solutions.com](http://www.kmp-solutions.com)
- [patrickouobou@kmp-solutions.com](mailto:patrickouobou@kmp-solutions.com) | 694339330



# A propos de nous



- **Entreprise de Service du Numérique (ESN)**
- Intégrateur de solutions a forte valeur ajoutée
- Solutions sans fils, Hotspot WIFI, Boucle Locale Radio
- Interconnexion des sites par liaison VPN, BLR et fibre optique
- Intégration de solutions de Cloud Computing en mode SAAS et PAAS
- Solutions de vidéosurveillance, contrôle d'accès et biométrie
- Solutions de téléphonie d'entreprise
- Solutions de sécurisation et d'optimisation des réseaux informatiques
- Formations, Séminaires et certifications



HOTSPOT WIFI : C'est quoi?



# Hotspot WIFI

- Borne WIFI ou point d'accès WIFI donnant accès a un réseau sans fil Wi-Fi.
- Permet aux utilisateurs de PC portables, telephones mobiles, tablettes, ou smartphones de se connecter à internet.
- Les Utilisateurs doivent s'authentifier via un page web (Portail captif)

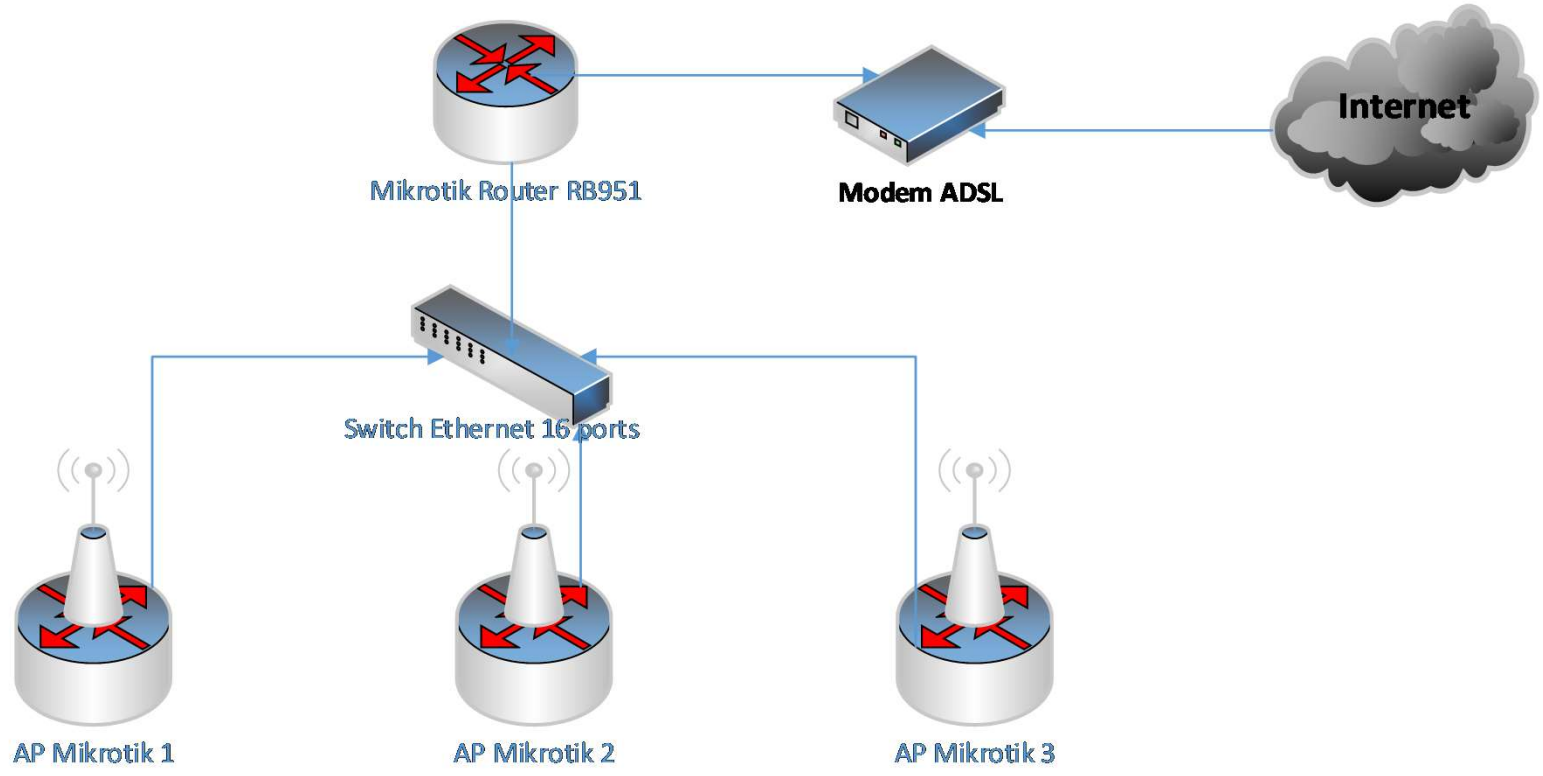
# Mikrotik Hotspot

- Il s'agit d'un outil intégré du RouterOs utilisé pour un accès Internet instantané Plug-and-Play
- HotSpot est un moyen d'autoriser les utilisateurs à accéder à certaines ressources réseau, mais ne fournit pas le cryptage du trafic.
- Il fournit également une journalisation flexible des utilisateurs.
- Différents moyens d'autorisation.

## Lieu?

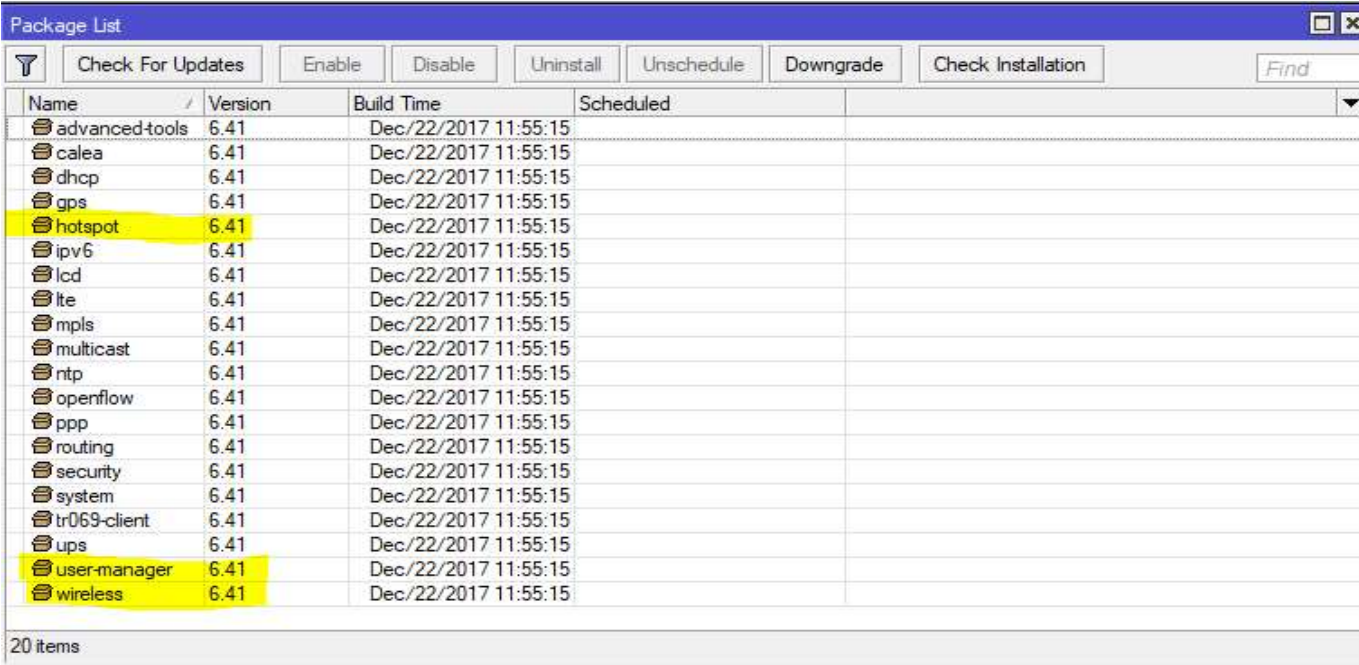
- Entreprises, Cybercafés, Aéroports
- Hôtel, restaurant, café
- Boutiques, Supermarchés
- Parcs, Espaces publiques
- Hôpitaux, Hotspot municipal ...

# Architecture





# Prérequis



Package List

Check For Updates Enable Disable Uninstall Unschedule Downgrade Check Installation Find

Name	Version	Build Time	Scheduled
advancedtools	6.41	Dec/22/2017 11:55:15	
calea	6.41	Dec/22/2017 11:55:15	
dhcp	6.41	Dec/22/2017 11:55:15	
gps	6.41	Dec/22/2017 11:55:15	
hotspot	6.41	Dec/22/2017 11:55:15	
ipv6	6.41	Dec/22/2017 11:55:15	
lcd	6.41	Dec/22/2017 11:55:15	
lte	6.41	Dec/22/2017 11:55:15	
mpls	6.41	Dec/22/2017 11:55:15	
multicast	6.41	Dec/22/2017 11:55:15	
ntp	6.41	Dec/22/2017 11:55:15	
openflow	6.41	Dec/22/2017 11:55:15	
ppp	6.41	Dec/22/2017 11:55:15	
routing	6.41	Dec/22/2017 11:55:15	
security	6.41	Dec/22/2017 11:55:15	
system	6.41	Dec/22/2017 11:55:15	
tr069-client	6.41	Dec/22/2017 11:55:15	
ups	6.41	Dec/22/2017 11:55:15	
user-manager	6.41	Dec/22/2017 11:55:15	
wireless	6.41	Dec/22/2017 11:55:15	

20 items

- Hotspot
- User-manager
- Wireless

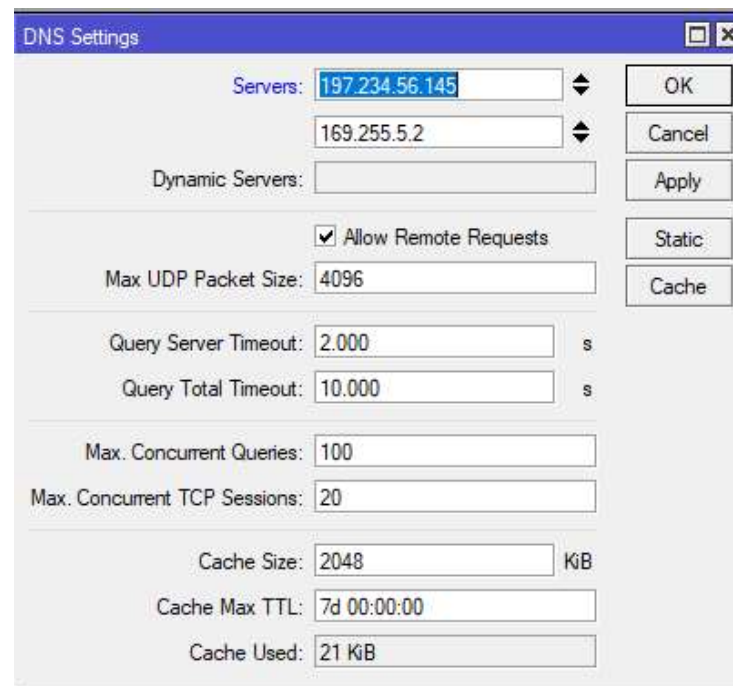
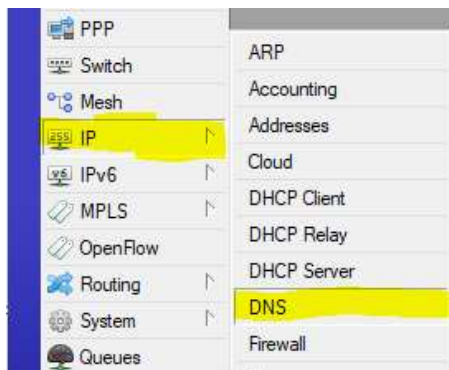
# Prérequis

- RouterBoards
- Adresses IP valides sur les interfaces Internet et Locales
- Adresses DNS de votre FAI a ajouter sur IP – DNS
- Au moins 01 Hotspot User



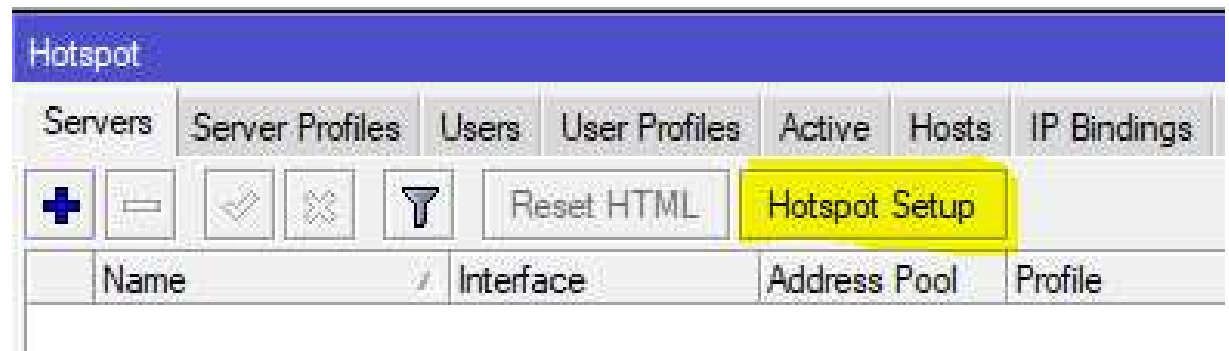
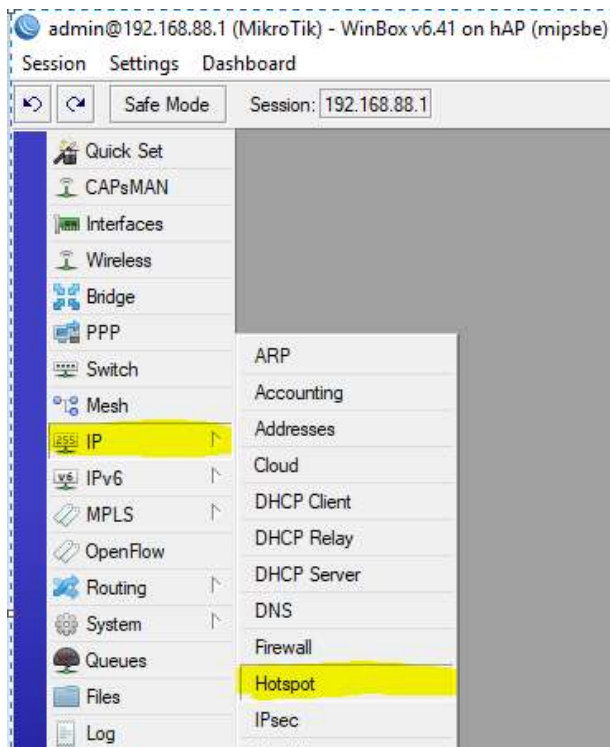
# HotSpot Configuration

- Configuration DNS

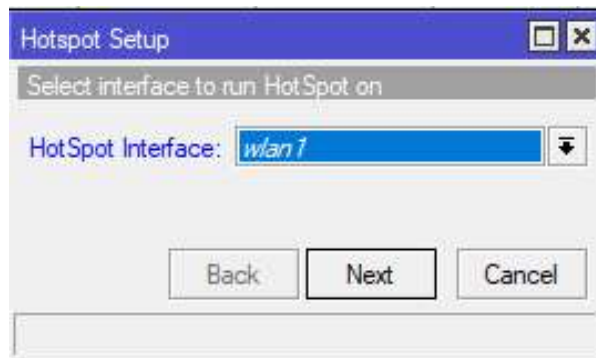


# HotSpot Configuration

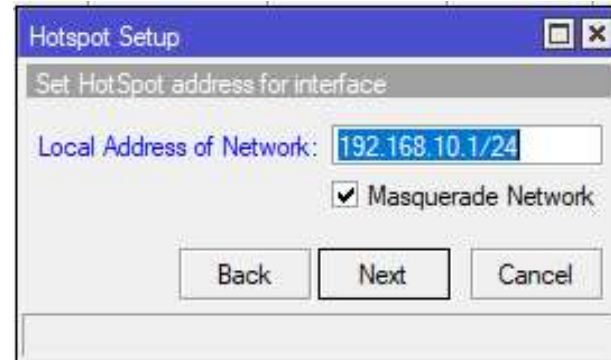
- Configuration Hotspot est similaire à celle du DHCP SERVER



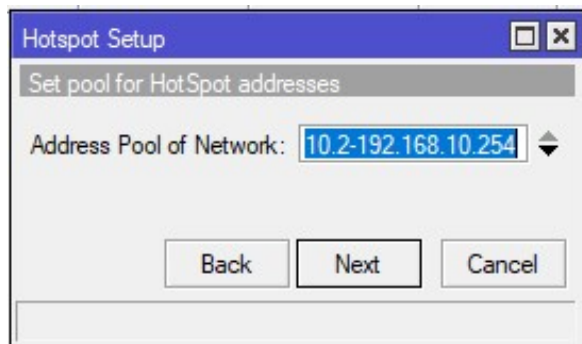
# HotSpot Configuration



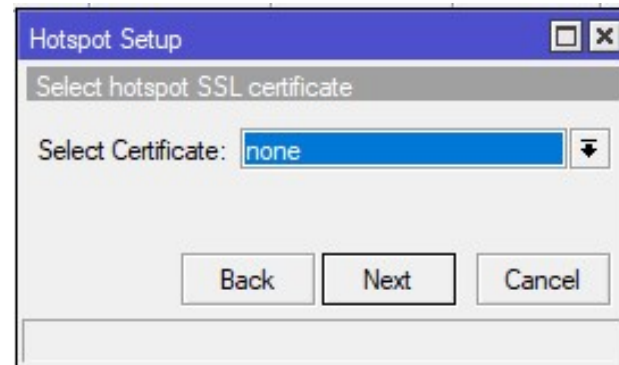
1. Sélectionner l'interface ou deployer le Hotspot



2. L'adresse de l'interface est ajouter automatiquement

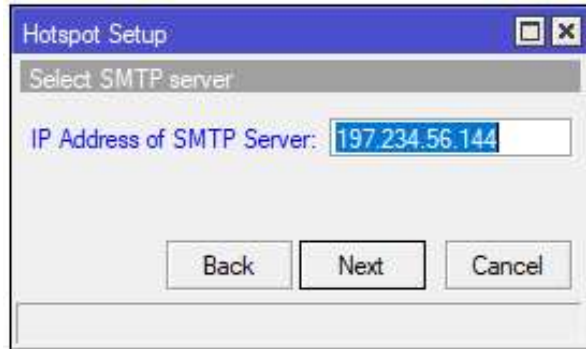


3. Définir votre plage d'adresse

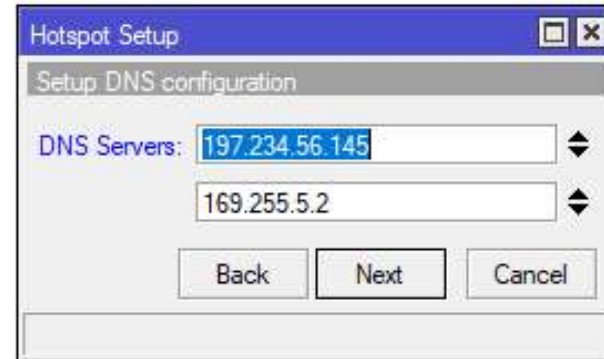


4. Faut-il utiliser le certificat ensemble avec HotSpot ou non?

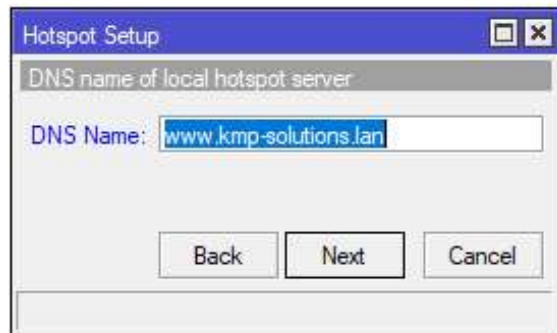
# HotSpot Configuration



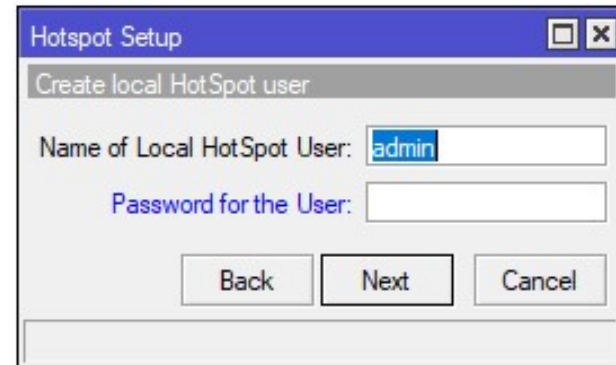
1. IP du serveur SMTP pour recevoir les arletes



2. Insérer les Serveurs DNS a utiliser ou IP du routeur



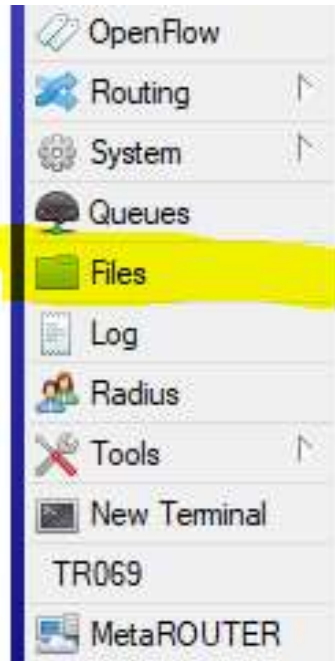
3. Nom de domaine DNS pour le Hotspot server



4. Ajouter le 1<sup>er</sup> user Hotspot

# HotSpot Configuration

- **Personnalisation du portail captif**



The 'File List' window displays a directory tree for a flash drive. The root is 'flash' (disk), which contains a subdirectory 'flash/KMP MUM'. This subdirectory contains several files and subdirectories, including 'alogin.html', 'error.html', 'errors.txt', an 'img' subdirectory, 'login.html', and 'logout.html'. The 'img' subdirectory contains several image files with various extensions like .png, .ai, and .jpg. The status bar at the bottom indicates 67 items, 16.0 MiB of 16.0 MiB used, and 0% free space.

File Name	Type	Size	Creation Time
flash	disk		Jan/01/1970
flash/KMP MUM	directory		Jan/01/2002 01:14:26
flash/KMP MUM/alogin.html	.html file	1392 B	Jan/01/2002 01:14:26
flash/KMP MUM/error.html	.html file	985 B	Jan/01/2002 01:14:26
flash/KMP MUM/errors.txt	.txt file	3615 B	Jan/01/2002 01:14:26
flash/KMP MUM/img	directory		Jan/01/2002 01:14:26
flash/KMP MUM/img/bg-...	.png file	897.8 KiB	Jan/01/2002 01:14:41
flash/KMP MUM/img/bg-...	.png file	400.0 KiB	Jan/01/2002 01:14:48
flash/KMP MUM/img/bg.ai	.ai file	0 B	Jan/01/2002 01:14:49
flash/KMP MUM/img/bg.j...	.jpg file	0 B	Jan/01/2002 01:14:49
flash/KMP MUM/img/foo...	.ai file	0 B	Jan/01/2002 01:14:49
flash/KMP MUM/img/foo...	.png file	0 B	Jan/01/2002 01:14:49
flash/KMP MUM/login.html	.html file	0 B	Jan/01/2002 01:14:49
flash/KMP MUM/logout.html	.html file	0 B	Jan/01/2002 01:14:49
flash/KMP MUM/iv	directory		Jan/01/2002 01:14:26

67 items | 16.0 MiB of 16.0 MiB used | 0% free

# HotSpot Configuration

The screenshot displays the 'Hotspot' management interface. The 'Server Profiles' tab is active, showing a list of profiles. The 'hsprof1' profile is selected. The 'Hotspot Server Profile <hsprof1>' dialog box is open, showing configuration fields for Name, Hotspot Address, DNS Name, HTML Directory, HTML Directory Override, Rate Limit, HTTP Proxy, HTTP Proxy Port, and SMTP Server. A dropdown menu is open for the HTML Directory field, listing several options, with 'flash/KMP MUM' highlighted in green.

**Hotspot Server Profile <hsprof1>**

General | Login | RADIUS

Name: hsprof1

Hotspot Address: 192.168.10.1

DNS Name: www.kmp-solutions.lan

HTML Directory: flash/hotspot

HTML Directory Override: flash

Rate Limit (x/tx): flash/user-manager

HTTP Proxy: flash/hotspot/xml

HTTP Proxy Port: flash/hotspot/iv

SMTP Server: flash/KMP MUM

flash/hotspot/img

flash

flash/skins

flash/user-manager

flash/hotspot/xml

flash/hotspot/iv

flash/KMP MUM

flash/KMP MUM/img

flash/KMP MUM/iv

flash/KMP MUM/xml

flash/hotspot

flash/hotspot/img

OK

Cancel

Apply

Copy

Remove

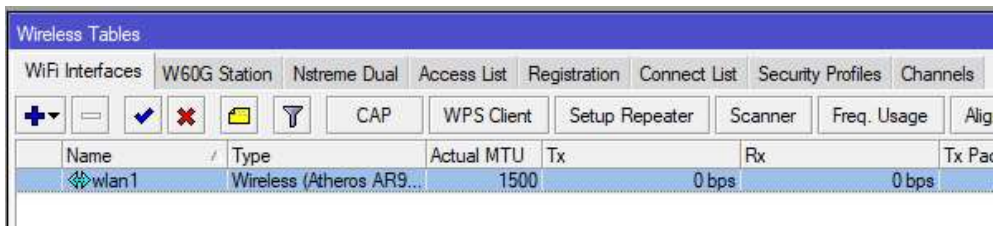
Garden IP List ...

Find

2 items (1 selected)



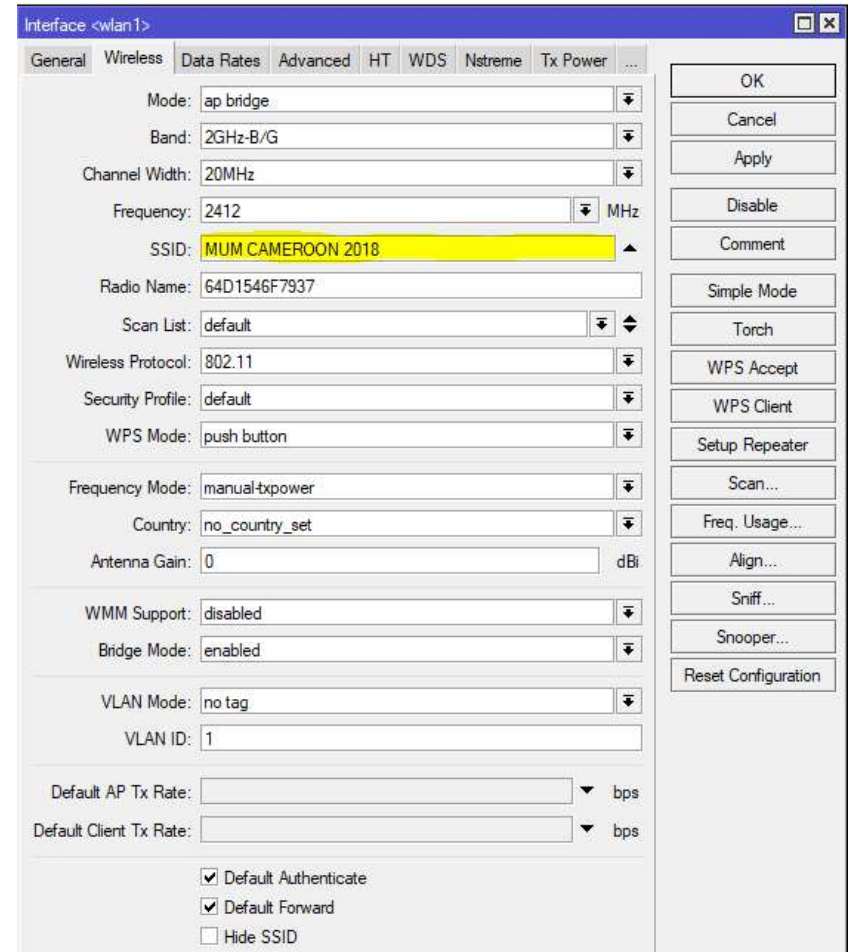
# HotSpot Configuration



Wireless Tables

Name	Type	Actual MTU	Tx	Rx	Tx Pkts
wlan1	Wireless (Atheros AR9...	1500	0 bps	0 bps	0 bps

- Selectionner l'interface **WLAN1**
- Mode : **Ap bridge**
- Band : **2GHz - B/G**
- SSID : **MUM CAMEROON 2018**
- Wireless Protocol : **802.11**
- **Default Authenticate**



Interface <wlan1>

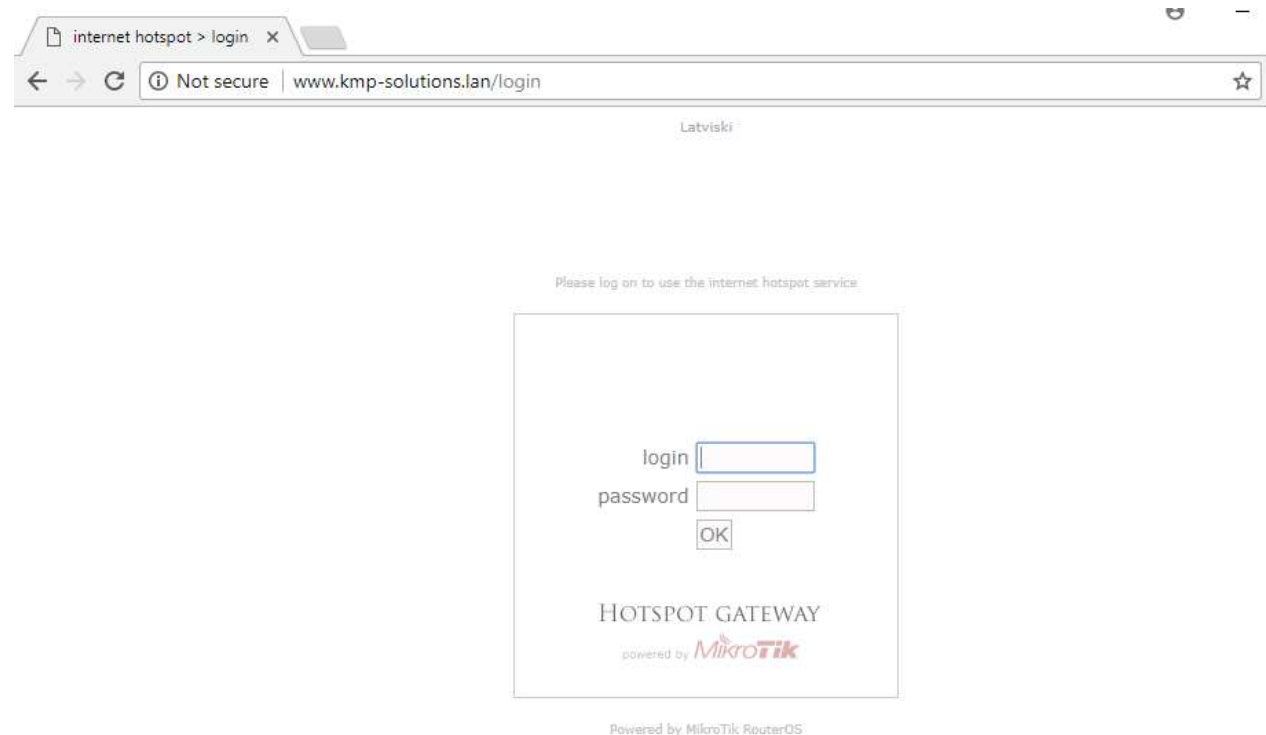
General Wireless Data Rates Advanced HT WDS Nstreme Tx Power ...

Mode: ap bridge  
Band: 2GHz-B/G  
Channel Width: 20MHz  
Frequency: 2412 MHz  
SSID: MUM CAMEROON 2018  
Radio Name: 64D1546F7937  
Scan List: default  
Wireless Protocol: 802.11  
Security Profile: default  
WPS Mode: push button  
Frequency Mode: manual-txpower  
Country: no\_country\_set  
Antenna Gain: 0 dBi  
WMM Support: disabled  
Bridge Mode: enabled  
VLAN Mode: no tag  
VLAN ID: 1  
Default AP Tx Rate: bps  
Default Client Tx Rate: bps  
 Default Authenticate  
 Default Forward  
 Hide SSID

OK  
Cancel  
Apply  
Disable  
Comment  
Simple Mode  
Torch  
WPS Accept  
WPS Client  
Setup Repeater  
Scan...  
Freq. Usage...  
Align...  
Sniff...  
Snooper...  
Reset Configuration

# HotSpot portal page

- Le portail captif est fourni lorsque l'utilisateur tente d'accéder à une page Web.
- Pour vous déconnecter de HotSpot, vous devez aller à
- **<http://router-IP> or <http://HotSpot-DNS>**

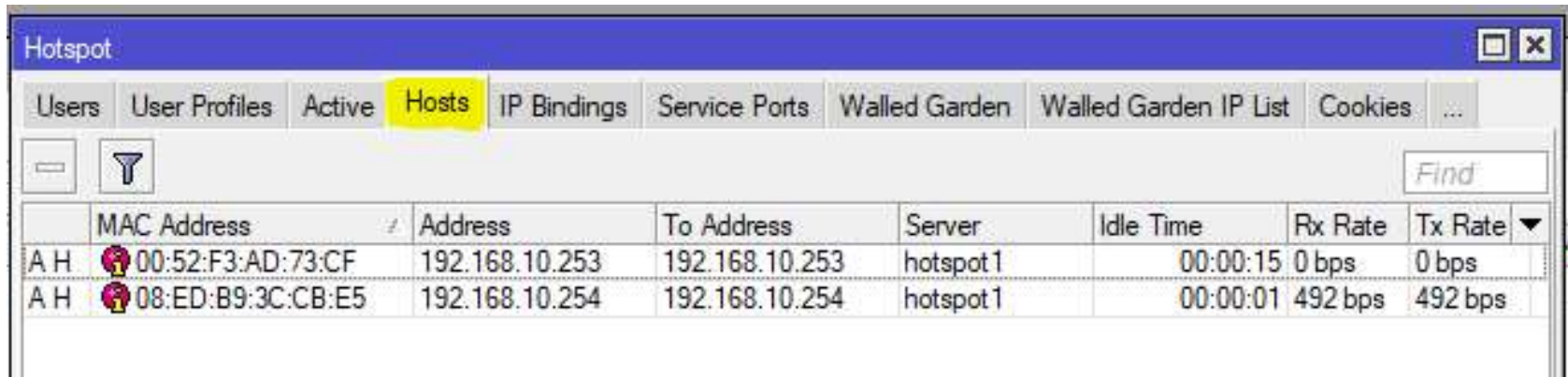


# HotSpot portal page

The screenshot shows a web browser window with the following elements:

- Browser Tabs:** MUM - MikroTik User Meeting, Mikrotik User Manager, Vouchers, KMP solutions consulting.
- Address Bar:** Not secure | www.kmp-solutions.lan/login
- Logos:**
  - MikroTik logo (ROUTING THE WORLD, MikroTik, www.mikrotik.com) in the top left.
  - KMP SOLUTIONS Consulting logo in the top right.
- Message:** Please log in to use service.
- Login Form:**
  - Text: Welcome to the gateway. Please enter your login credentials.
  - Fields: Login , Password
  - Buttons: OK, HOTSPOT GATEWAY by Team
- Background Image:** Aerial view of a city with a large building. Text overlay: Mikrotik User Meeting, MUM CAMEROON, YAOUNDE, JANUARY 26, 2018.

# HotSpot Network Hosts

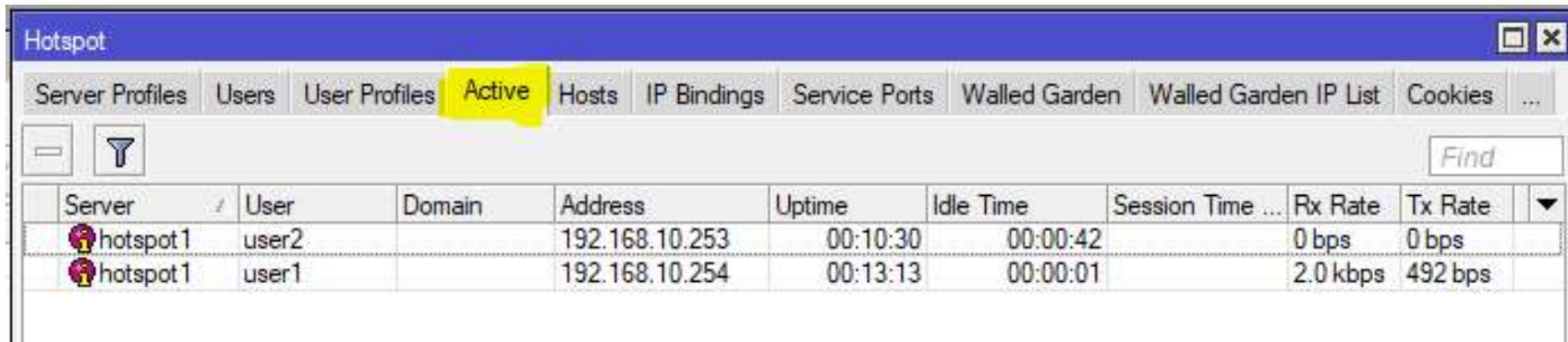


The screenshot shows a window titled "Hotspot" with several tabs: "Users", "User Profiles", "Active", "Hosts" (highlighted), "IP Bindings", "Service Ports", "Walled Garden", "Walled Garden IP List", and "Cookies". Below the tabs is a search bar with a "Find" button. The main area contains a table with the following data:

	MAC Address	Address	To Address	Server	Idle Time	Rx Rate	Tx Rate
A H	00:52:F3:AD:73:CF	192.168.10.253	192.168.10.253	hotspot1	00:00:15	0 bps	0 bps
A H	08:ED:B9:3C:CB:E5	192.168.10.254	192.168.10.254	hotspot1	00:00:01	492 bps	492 bps

- Informations concernant les clients (PC) connectés apparaissent dans l'onglet **Hosts**.

# HotSpot Active Table

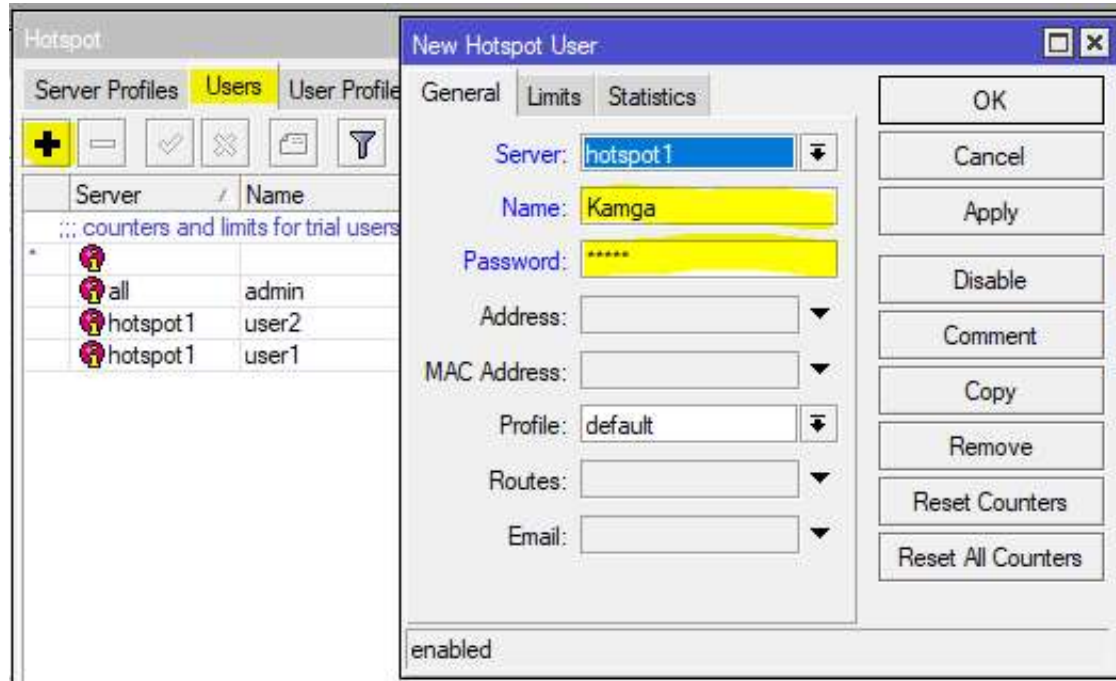


The screenshot shows a window titled "Hotspot" with a menu bar containing "Server Profiles", "Users", "User Profiles", "Active", "Hosts", "IP Bindings", "Service Ports", "Walled Garden", "Walled Garden IP List", and "Cookies". The "Active" tab is highlighted in yellow. Below the menu bar is a search bar with a "Find" button. The main area contains a table with the following data:

Server	User	Domain	Address	Uptime	Idle Time	Session Time ...	Rx Rate	Tx Rate	
hotspot1	user2		192.168.10.253	00:10:30	00:00:42		0 bps	0 bps	
hotspot1	user1		192.168.10.254	00:13:13	00:00:01		2.0 kbps	492 bps	

- Informations concernant les utilisateurs connectés apparaissent dans l'onglet **Active**.

# User Management

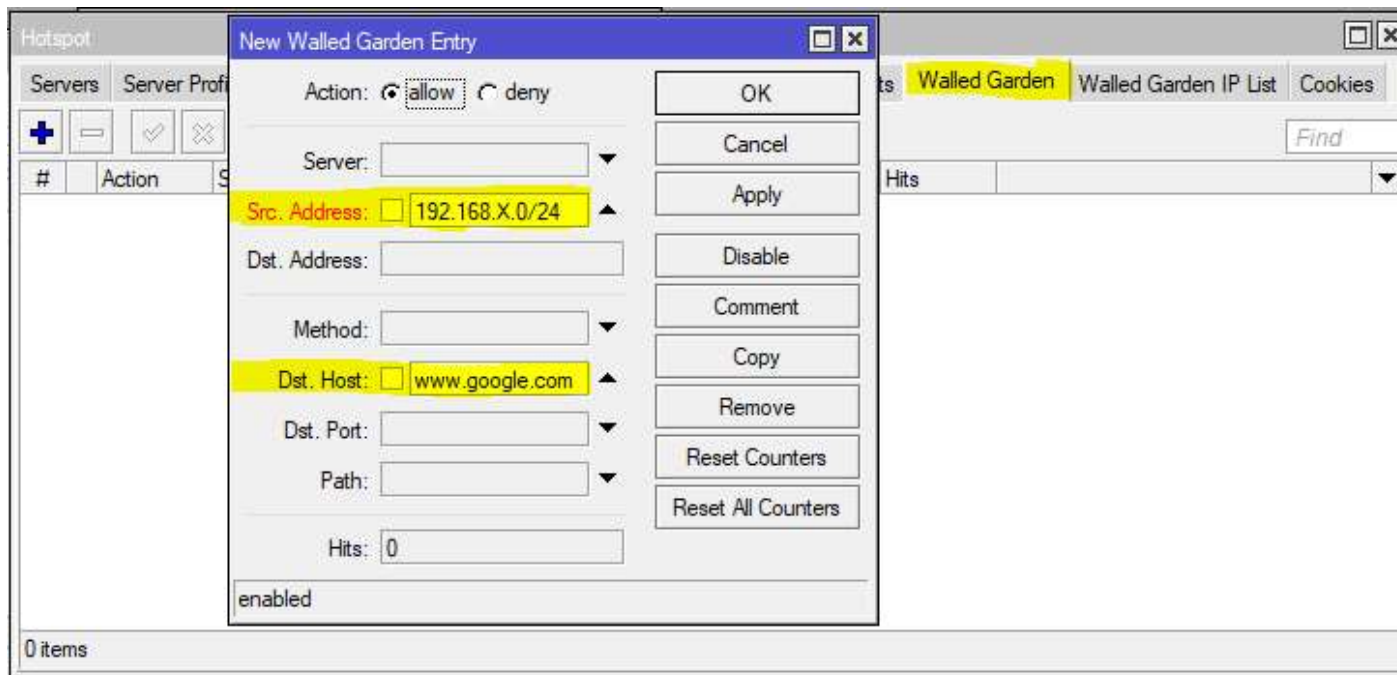


- Ajout/modification/suppression des Hotspot Users

# HotSpot Walled-Garden

- Outil permettant d'accéder à des ressources spécifiques sans autorisation HotSpot.
- Les ressources spécifiques peuvent être un serveur Web local ou une page Web externe ([www.mikrotik.com](http://www.mikrotik.com)).
- Walled-Garden pour HTTP et HTTPS.
- Walled-Garden IP pour les autres ressources (Telnet, SSH, Winbox, etc.).

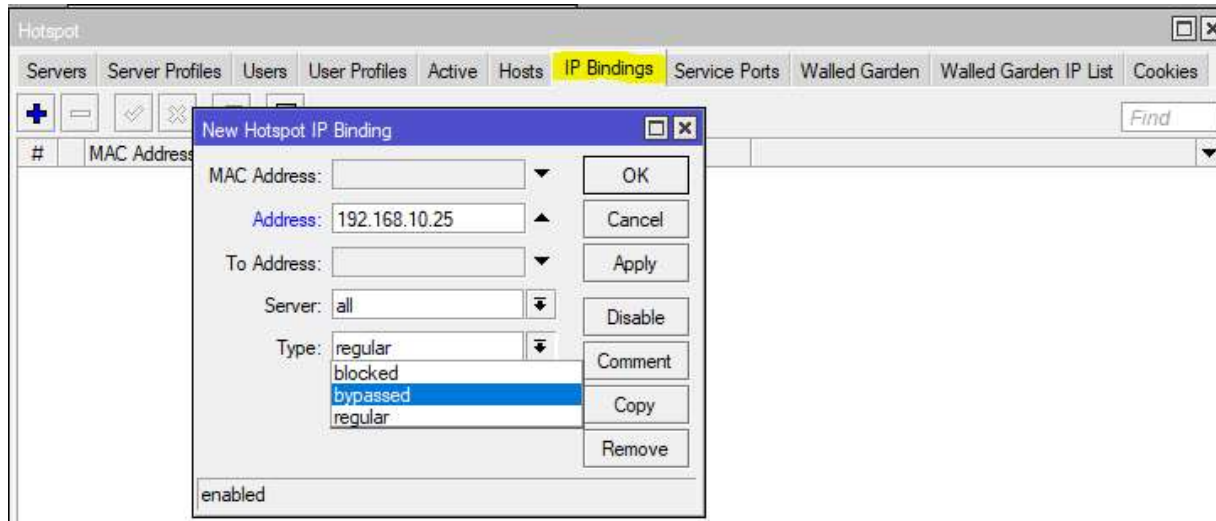
# HotSpot Walled-Garden



- Autorise l'accès a **google.com** aux utilisateurs du **192.168.X.0/24**



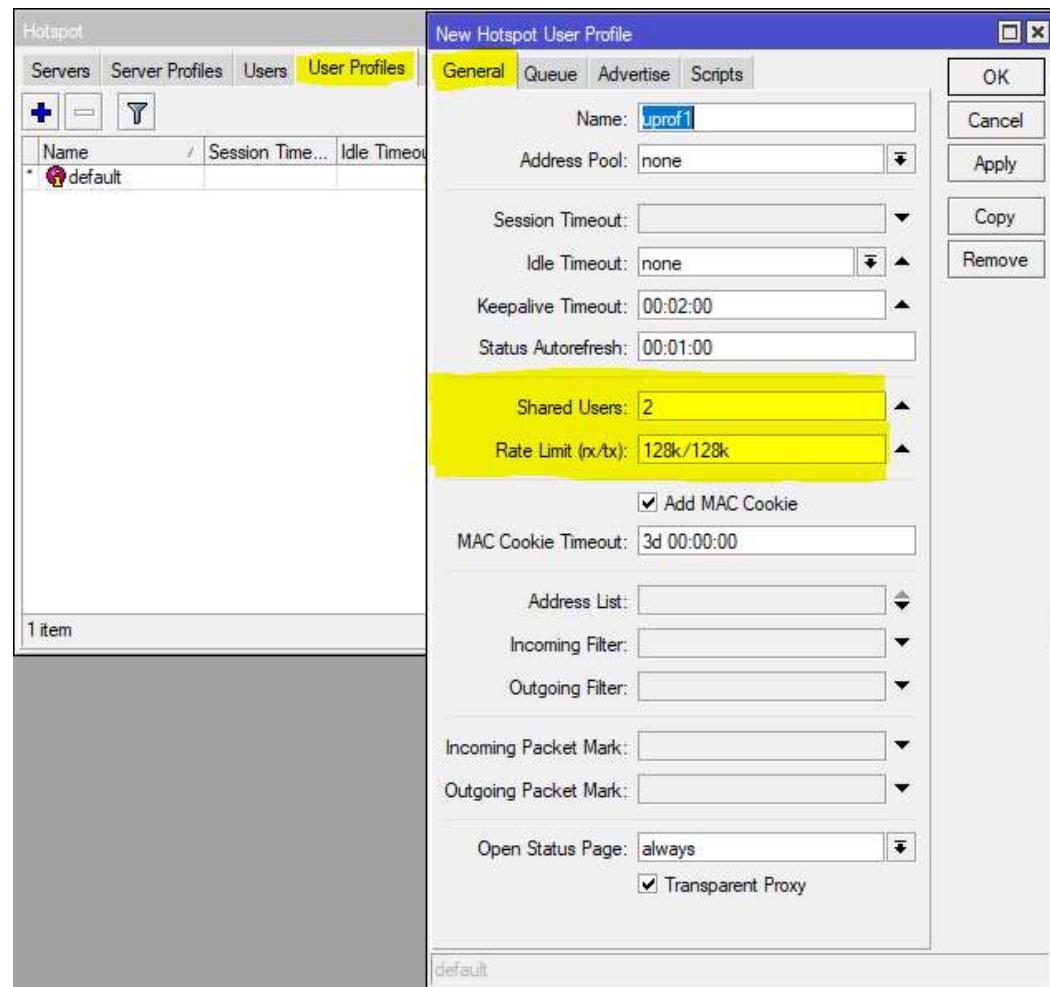
# HotSpot IP Bindings



- Bypasser des clients spécifiques via HotSpot.
- VoIP Phones, imprimantes, super-utilisateurs.
- IP Binding n'est pas comme walled-garden. Il ouvre toutes les ressources du réseau public

# HotSpot Speed limitation

- Attribuer a un client une bande passante **128k/128k, down/up**
- Permettre a plusieurs clients d'utiliser le **même compte Hotspot (User/password)**





User Manager : C'est quoi?



# User Manager

- User Manager ou Userman est un Serveur RADIUS (**R**emote **A**uthentication **D**ial **I**n **U**ser)
- User Manager peut être installé sur MikroTik RouterOS en utilisant le package **userman.npk**
- RADIUS est un protocole qui fournit une **authentication, authorization, accounting** centralisée d'où son appellation de **Triple A (AAA)**
  - **Authentication** : Seul les utilisateurs enregistrés (login/password) ont accès
  - **Authorization** : Définir les droits ou privilèges pour un utilisateur
  - **Accounting** : Journaliser tous les actions d'un utilisateur

# User Manager

- Outil de gestion efficace utilisé pour :
  - **HotSpot users (notre cas d'étude)**
  - PPP (PPTP/PPPoE) users
  - DHCP users
  - Wireless users
  - RouterOS users
- Pré-requis
  - Avoir la meme version RouterOS pour vos AP.
  - User manager fonctionne sur des architectures suivantes : **x86, MIPS, PowerPC, TILE, CHR**
  - RouterBoard doit avoir un minimum de **32MB RAM** et **2MB** d'espace libre HDD.

# RADIUS Setup for User Manager

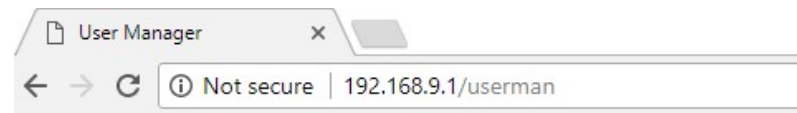
The screenshot displays the Hotspot Manager interface with the 'Server Profiles' tab selected. A table lists server profiles, with 'hsprof1' highlighted. Below the table, the 'Hotspot Server Profile <hsprof1>' dialog is open, showing the 'RADIUS' tab. The 'Use RADIUS' checkbox is checked. The 'New Radius Server' dialog is also open, showing configuration for a RADIUS server with the following details:

Field	Value
Service	<input checked="" type="checkbox"/> hotspot
Called ID	
Domain	
Address	192.168.10.20
Secret	*****
Authentication Port	1812
Accounting Port	1813
Timeout	300 ms
Accounting Backup	<input type="checkbox"/>
Realm	
Src. Address	

The 'New Radius Server' dialog also includes buttons for OK, Cancel, Apply, Disable, Comment, Copy, Remove, and Reset Status. The status of the server is shown as 'enabled' at the bottom.

# User Manager configuration

- <http://router-ip/userman>
- Default Username : **admin**
- Default Password : **Blank**

A screenshot of the Mikrotik User Manager login page. The page has a light green background. At the top, the Mikrotik logo is displayed with the text "MikroTik" in a stylized font and "Mikrotik User Manager" below it. Below the logo, there are two input fields: "Login" with the text "admin" and "Password" which is empty. Below the input fields is a "Log in" button.

# User Manager configuration

- Enregistrement des AP

1. Routers
2. Add
3. New

The screenshot displays the MikroTik User Manager web interface. On the left is a navigation menu with buttons for Routers, Users, Sessions, Customers, Logs, Payments, Profiles, Settings, Reports, 0 A sessions, 0 A users, Advanced search, Maintenance, and Logout. The main area shows the 'Add' and 'Edit' options for Routers, with 'New' selected. A 'Router details' dialog box is open, containing the following fields and options:

- Name: AP1 Mikrotik
- Owner: admin
- IP address: 192.168.10.10
- Shared secret: mikrotik
- Time zone: +01:00
- Disabled:
- Log events:  Authorization success,  Authorization failure,  Accounting success,  Accounting failure
- Radius incoming:



# User Manager configuration

**MikroTik**  
Mikrotik User Manager

Add Edit

<input type="checkbox"/>	▽ Name	▽ IP address	▽ Shared secret
<input type="checkbox"/>	AP1 Mikrotik	192.168.10.10	mikrotik
<input type="checkbox"/>	AP2 Mikrotik	192.168.10.20	mikrotik
<input type="checkbox"/>	AP3 Mikrotik	192.168.10.30	mikrotik

Per page [20] ▾

**Router details** [X]

▲ Main

Name: AP1 Mikrotik  
Owner: admin  
IP address: 192.168.10.10  
Shared secret: mikrotik  
Time zone: Parent time zone ▾  
Disabled:   
Log events:  Authorization success  
 Authorization failure  
 Accounting success  
 Accounting failure

▼ Radius incoming

Save

**Router details** [X]

▲ Main

Name: AP2 Mikrotik  
Owner: admin  
IP address: 192.168.10.20  
Shared secret: mikrotik  
Time zone: Parent time zone ▾  
Disabled:   
Log events:  Authorization success  
 Authorization failure  
 Accounting success  
 Accounting failure

▼ Radius incoming

Save

Left sidebar menu:

- Routers
- Users
- Sessions
- Customers
- Logs
- Payments
- Profiles
- Settings
- Reports
- 0 A sessions
- 0 A users
- Advanced search
- Maintenance
- Logout

# User Manager configuration

The screenshot displays the MikroTik User Manager web interface. The browser address bar shows '192.168.9.1/userman'. The main menu on the left includes 'Routers', 'Users', 'Sessions', 'Customers', 'Logs', 'Payments', 'Profiles' (highlighted), 'Settings', 'Reports', '0 A sessions', '0 A users', 'Advanced search', 'Maintenance', and 'Logout'. The 'Profiles' tab is active, showing configuration for a profile named 'Cadre'. The profile details include: Name: Cadre, Owner: admin, Validity: (empty), Starts: At first logon, Price: 0.00, and Shared users: 2. Below these are buttons for 'Save profile', 'Remove profile', and 'Add new limitation'. A 'Create profile' dialog box is open, showing the name 'Cadre' and a 'Create' button. A 'Profile part' dialog box is also open, showing the 'Period' section with days from Sunday to Saturday checked, and a time range from 0:00:00 to 23:59:59. The 'Limits' section has '512K' selected, with other options being 256K, 128K, and 64k. Buttons for 'New limit', 'Cancel', and 'Add' are at the bottom of the dialog.

- **Création de profils utilisateurs**

# User Manager configuration

The screenshot displays the MikroTik User Manager web interface. The 'Profiles' tab is active, and the 'Limitations' sub-tab is selected. A 'Limitation details' dialog box is open, showing the following configuration:

- Main:**
  - Name: 512K
  - Owner: admin
- Limits:**
  - Download: 512k
  - Upload: 512k
  - Transfer: 0B
  - Uptime: (empty)
- Rate limits:** (collapsed)
- Constraints:** (collapsed)

An 'Add' button is visible at the bottom of the dialog. In the background, a table shows the 'Upload' column with values: 512.0 KiB, 256.0 KiB, 128.0 KiB, and 64.0 KiB.

- **Creation des limitations**

# Generate Batch User

The screenshot shows the Mikrotik User Manager web interface. The browser address bar indicates the URL is 192.168.9.1/userman. The interface has a sidebar menu on the left with options: Routers, Users (selected), Sessions, Customers, Logs, Payments, Profiles, Settings, Reports, 0 A sessions, 0 A users, Advanced search, and Maintenance. The main content area has tabs for 'Add', 'Edit', and 'Generate'. Under 'Generate', there are sub-tabs for 'One' and 'Batch'. The 'Batch' tab is active, and a 'User details' dialog box is open. The dialog box contains the following fields:

- Owner: admin
- Number of users: 20
- Username prefix: mum
- Username length: 6
- Pwd same as login:
- Password length: 3
- Constraints:
  - Wireless:
- Private information:
  - Assign profile: Cadre

An 'Add' button is located at the bottom right of the dialog box. A 'Total time left' indicator is visible in the top right corner of the main content area.

- Possibilité de générer jusqu'à **999 users** en un seul clic
- Assigner un **Username prefix** et **profile** pour tous.

# Generate Batch User

← → ↻ ⓘ Not secure | 192.168.9.1/userman

**MikroTik**  
Mikrotik User Manager

Add Edit Generate

<input checked="" type="checkbox"/>	▽ Username	▽ Till time	▽ Total time left	▽ Actual profile
<input checked="" type="checkbox"/>	mumsppeu2	Unlimited	Unlimited	Cadre
<input checked="" type="checkbox"/>	mum9yfdtj	Unlimited	Unlimited	Cadre
<input checked="" type="checkbox"/>	mumtcck2u	Unlimited	Unlimited	Cadre
<input checked="" type="checkbox"/>	mumpxkfx3	Unlimited	Unlimited	Cadre
<input checked="" type="checkbox"/>	mumgz9a8t	Unlimited	Unlimited	Cadre
<input checked="" type="checkbox"/>	mumf87gfz	Unlimited	Unlimited	Cadre
<input checked="" type="checkbox"/>	mumg64qum	Unlimited	Unlimited	Cadre
<input checked="" type="checkbox"/>	mum59hm8v	Unlimited	Unlimited	Cadre
<input checked="" type="checkbox"/>	mumz426iw	Unlimited	Unlimited	Cadre
<input checked="" type="checkbox"/>	mumfyvt58	Unlimited	Unlimited	Cadre
<input checked="" type="checkbox"/>	mum2sp8ww	Unlimited	Unlimited	Cadre
<input checked="" type="checkbox"/>	mum9ync98	Unlimited	Unlimited	Cadre
<input checked="" type="checkbox"/>	mummy67ra	Unlimited	Unlimited	Cadre
<input checked="" type="checkbox"/>	mum5maepe	Unlimited	Unlimited	Cadre
<input checked="" type="checkbox"/>	mumykau5i	Unlimited	Unlimited	Cadre
<input checked="" type="checkbox"/>	mum5i4h3f	Unlimited	Unlimited	Cadre
<input checked="" type="checkbox"/>	mumwqc6ay	Unlimited	Unlimited	Cadre
<input checked="" type="checkbox"/>	mumqm44j4	Unlimited	Unlimited	Cadre
<input checked="" type="checkbox"/>	mumnrtjnh	Unlimited	Unlimited	Cadre
<input checked="" type="checkbox"/>	mumqx8c7d	Unlimited	Unlimited	Cadre

Routers  
Users  
Sessions  
Customers  
Logs  
Payments  
Profiles  
Settings  
Reports  
0 A sessions  
0 A users  
Advanced search  
Maintenance  
Logout

- Liste de vos nouveaux utilisateurs

# Generate Batch User

The screenshot shows the MikroTik User Manager web interface. The browser address bar indicates the URL is 192.168.9.1/userman. The interface includes a navigation menu on the left with options like Routers, Users, Sessions, Customers, Logs, Payments, Profiles, Settings, Reports, 0 A sessions, 0 A users, Advanced search, Maintenance, and Logout. The main area displays a table of users with columns for Username and Actual profile. A 'User details' dialog box is open, showing fields for Username (mumsppeu2), Password (t3x), Disabled (checkbox), and Owner (admin). The dialog also has sections for Actual profile, Constraints, Wireless, Private information, Statistics, Bill, and All profiles, with a dropdown menu currently set to 'Cadre' and a 'Save' button.

Username	Actual profile
mumsppeu2	Cadre
mum9yfdtj	Cadre
mumtck2u	Cadre
mumpkfx3	Cadre
mumgz9a8t	Cadre
mumf87gfz	Cadre
mumg64qum	Cadre
mum59hm8v	Cadre
mumz426iw	Cadre
mumfyvt58	Cadre
mum2sp8ww	Cadre
mum9ync98	Cadre
mummy67ra	Cadre
mum5maepe	Cadre
mumykau5i	Cadre
mum5i4h3f	Cadre
mumwqc6ay	Cadre
mumqm44j4	Cadre
mumnrtjnh	Cadre
mumqx8c7d	Cadre

- Paramètres utilisateur

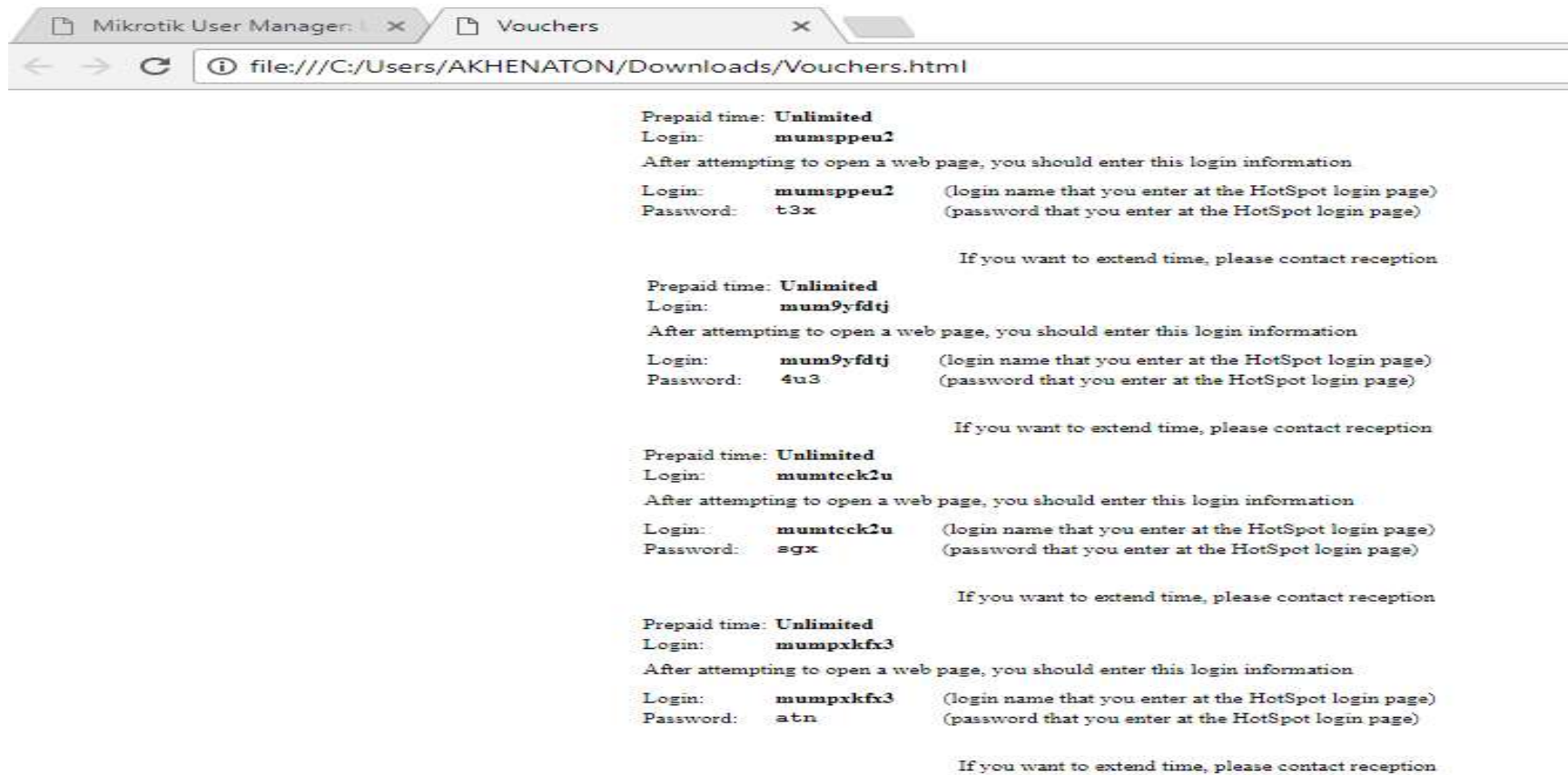
# Generate Batch User

The screenshot shows the Mikrotik User Manager web interface. The browser address bar indicates the URL is 192.168.9.1/userman. The left sidebar contains navigation menus for Routers, Users, Sessions, Customers, Logs, Payments, Profiles, Settings, Reports, 0 A sessions, 0 A users, Advanced search, Maintenance, and Logout. The main content area has a 'Generate' menu open, with 'CSV File' and 'Vouchers' options. A 'Vouchers' dialog box is displayed over the table, featuring a 'Break after' dropdown set to 'None' and a checked 'Download as file' option. A 'Generate' button is at the bottom of the dialog. The table below shows a list of users with their IDs, till times, and total time left.

		▼ Till time	▼ Total time left
<input checked="" type="checkbox"/>	▼		
<input checked="" type="checkbox"/>	mumsppeu2	Unlimited	Unlimited
<input checked="" type="checkbox"/>	mum9yfdtj	Unlimited	Unlimited
<input checked="" type="checkbox"/>	mumtck2u		Unlimited
<input checked="" type="checkbox"/>	mumpkfx3		Unlimited
<input checked="" type="checkbox"/>	mumgz9a8t		Unlimited
<input checked="" type="checkbox"/>	mumf87gfz		Unlimited
<input checked="" type="checkbox"/>	mumg64qum		Unlimited
<input checked="" type="checkbox"/>	mum59hm8v		Unlimited
<input checked="" type="checkbox"/>	mumz426iw		Unlimited
<input checked="" type="checkbox"/>	mumfyvt58		Unlimited
<input checked="" type="checkbox"/>	mum2sp8ww		Unlimited
<input checked="" type="checkbox"/>	mum9ync98	Unlimited	Unlimited
<input checked="" type="checkbox"/>	mummy67ra	Unlimited	Unlimited
<input checked="" type="checkbox"/>	mum5maepe	Unlimited	Unlimited
<input checked="" type="checkbox"/>	mumykau5i	Unlimited	Unlimited
<input checked="" type="checkbox"/>	mum5i4h3f	Unlimited	Unlimited
<input checked="" type="checkbox"/>	mumwqc6ay	Unlimited	Unlimited
<input checked="" type="checkbox"/>	mumqm44j4	Unlimited	Unlimited
<input checked="" type="checkbox"/>	mumnrtjnh	Unlimited	Unlimited

- Génération des Vouchers pour utilisateurs

# Generate Batch User



Mikrotik User Manager x Vouchers x

file:///C:/Users/AKHENATON/Downloads/Vouchers.html

Prepaid time: **Unlimited**  
Login: **mumsppeu2**  
After attempting to open a web page, you should enter this login information  
Login: **mumsppeu2** (login name that you enter at the HotSpot login page)  
Password: **t3x** (password that you enter at the HotSpot login page)

If you want to extend time, please contact reception

Prepaid time: **Unlimited**  
Login: **mum9yfdtj**  
After attempting to open a web page, you should enter this login information  
Login: **mum9yfdtj** (login name that you enter at the HotSpot login page)  
Password: **4u3** (password that you enter at the HotSpot login page)

If you want to extend time, please contact reception

Prepaid time: **Unlimited**  
Login: **mumtck2u**  
After attempting to open a web page, you should enter this login information  
Login: **mumtck2u** (login name that you enter at the HotSpot login page)  
Password: **sgx** (password that you enter at the HotSpot login page)

If you want to extend time, please contact reception

Prepaid time: **Unlimited**  
Login: **mumpkfx3**  
After attempting to open a web page, you should enter this login information  
Login: **mumpkfx3** (login name that you enter at the HotSpot login page)  
Password: **atn** (password that you enter at the HotSpot login page)

If you want to extend time, please contact reception



# Customize the User Manager Page

The screenshot displays the MikroTik User Manager web interface. The browser address bar shows '192.168.9.1/userman'. The interface has a sidebar on the left with a menu including 'Routers', 'Users', 'Sessions', 'Customers', 'Logs', 'Payments', 'Profiles', 'Settings' (highlighted), 'Reports', '0 A sessions', '0 A users', 'Advanced search', 'Maintenance', and 'Logout'. The main content area is titled 'Vouchers' and has tabs for 'Appearance', 'Style', 'Templates' (selected), 'Language', 'Payment gateways', and 'Signup'. The 'Name' field is set to 'Vouchers'. The 'Header' field contains HTML code for the document type and head section. The 'Row' field contains HTML code for a table with columns for 'Prepaid time', 'Price', and 'Login'. The 'Footer' field is empty. The 'Break' field contains HTML code for a page break. The 'File extension' field is empty. At the bottom, there are 'Save' and 'Reset' buttons.

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<title>Vouchers</title>
<style>
@media print {
<table align="center" style="color: black; font-size: 11px;"> <tr
class="space1"><td colspan="3"></td></tr> <tr> <td>Prepaid time:</td> <td>
<b>%u_timeLeft</b></td></tr> <!-- <tr> <td>Price:</td> <td>
<b>%u_totalPrice</b></td></tr> <tr> --> <td>Login:</td> <td>
<b>%u_username</b></td></tr> <tr class="space2"><td colspan="3"></td></tr>
<tr> <td colspan="3"> After attempting to open a web page, you should
enter this login information </td></tr> <tr height="50px"><td colspan="3">
</body></html>
```

```
<p class="noprint" style="font-size: 10px"> ..... page break
..... </p> <p class="pagebreak">&nbsp;</p>
```

- Possibilité de changer le Template ou de télécharger un autre sur internet

# Customize the Voucher Code

Username	Password	Time	Shared Users	Profile
hg8k	aaaa	5d18h13m1s	3	Deluxe
4nwb	x9jq	1w	3	Deluxe
9u2r	8ts7	1w	3	Deluxe
75uu	272	1w	3	Deluxe
xh3q	5abl	1w	3	Deluxe
i5bf	vq3q	1w	3	Deluxe
uhus	ik64	1w	3	Deluxe
zftt	fhgv	1w	3	Deluxe
gmdh	ev3r	1w	3	Deluxe
bcvn	v27t	1w	3	Deluxe
6ugg	33uq	1w	3	Deluxe
k74r	gfef	1w	3	Deluxe

- Voucher code après changement du Template

# Final test !!!!





THANKS YOU

