

USER MANAGER

For

Hotspot User Management



ID-Networkers
INDONESIAN EXPERT FACTORY



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MTCNA
MTCRE
MTCUME
MTCINE

About Madinatul 'Ilmi Vocational High School



We learn networking from morning until night.

Not only learn about networking, we also learning about religious.

We also have programming class! which focus learning about mobile aps.

What is User Manager??



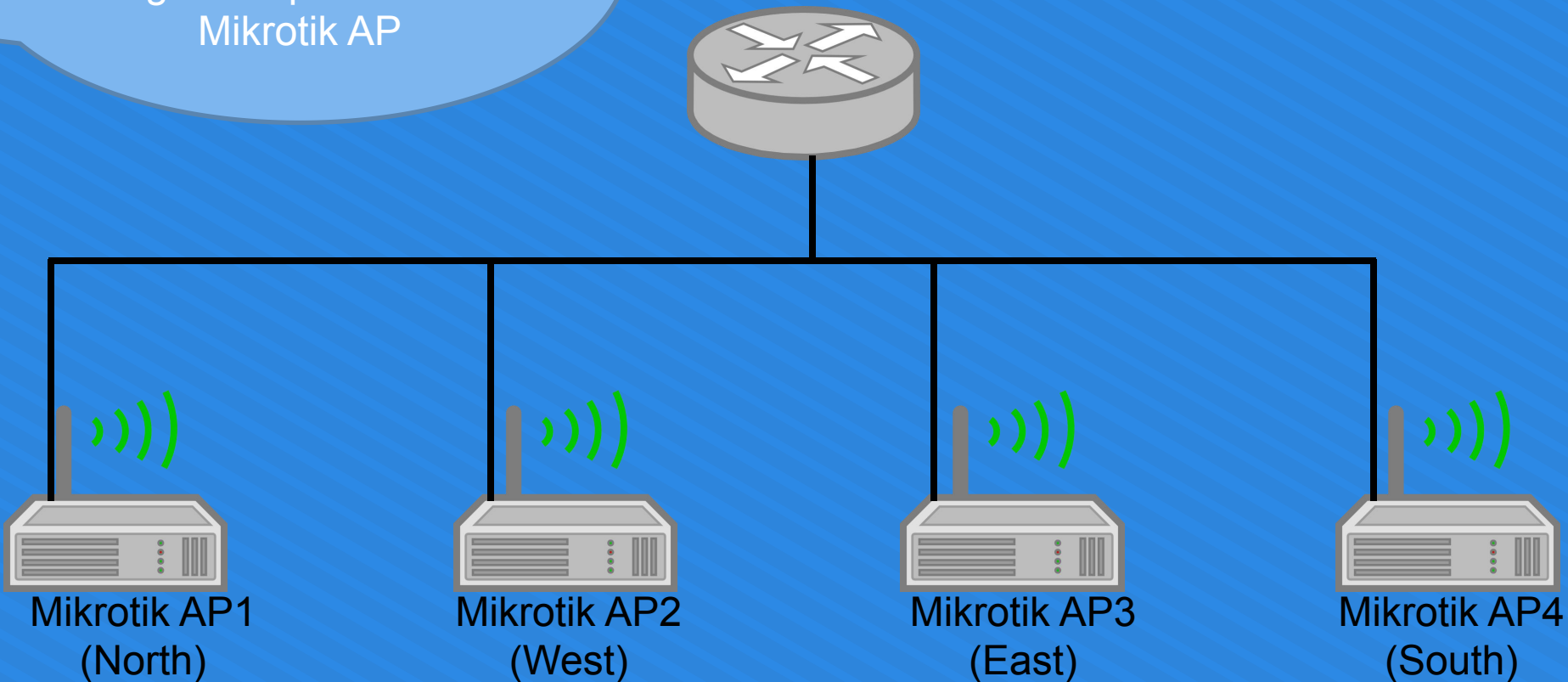
User manager is features which can used to centralized user management.

User manager can manage hotspot user, PPP users, Wireless users, and RouterOS users.

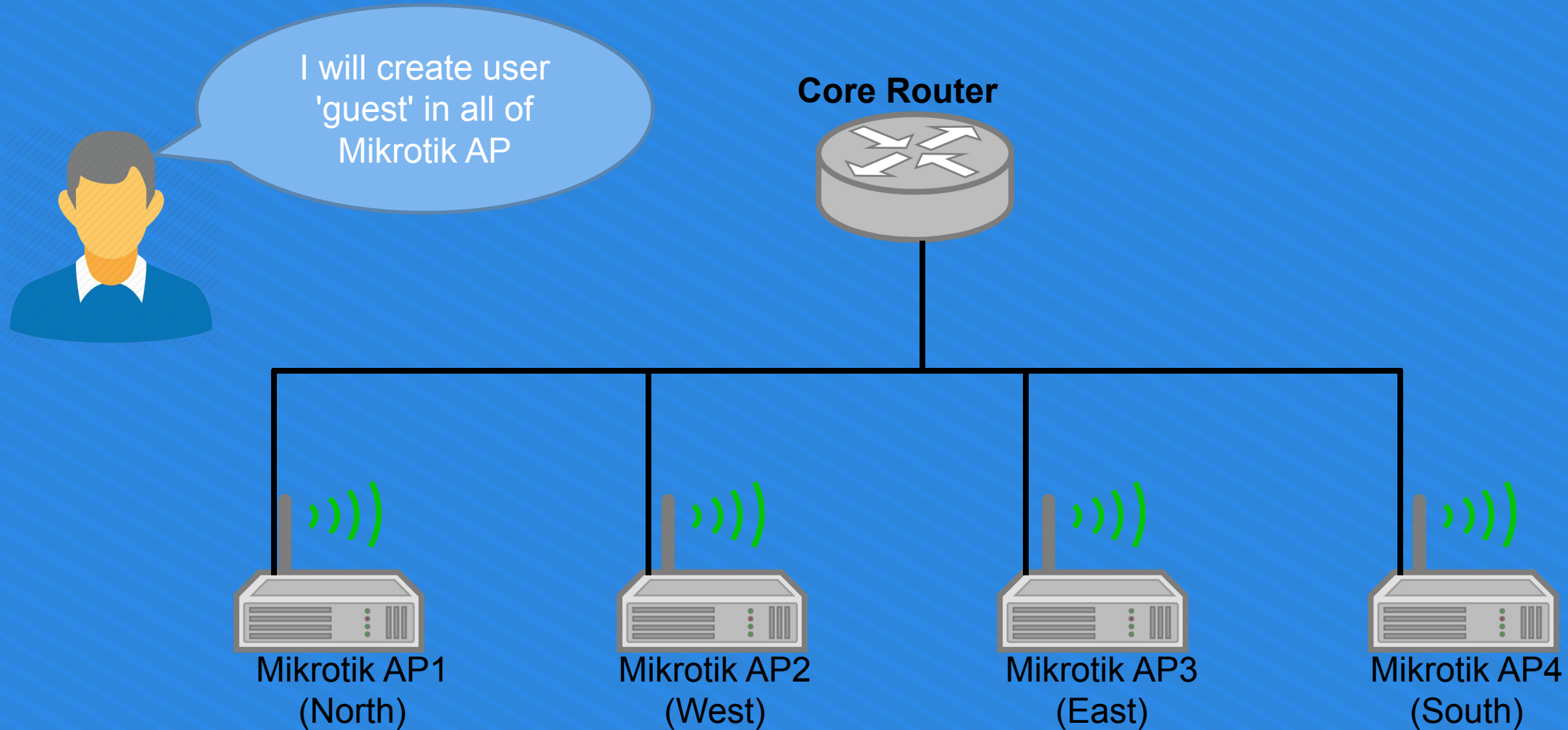
We have a problem!!

I want to create user 'guest' that can used to login hotspot in all of Mikrotik AP

Core Router



Solution 1



Is This The Best Solution??

Solution 1

<The Weakness>



I will create user 'guest'
in all of Mikrotik AP

That is litle crazy solution man!!

If you must manage bandwidht
for 'guest' user, will you create
queue rule in 100 router too?

That is litle crazy solution
man!!

if you have 100 router, will
you create user in 100
router??



Solution 1


<The Weakness>



I will create user 'guest'
in all of Mikrotik AP

That is little crazy solution
man!!

If you need to monitor
user, will you monitor in
100 router??



Do you have
another solution??



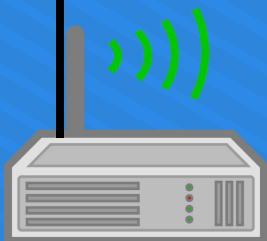
Solution 2

Oh, i have another solution!

I will use **user manager!!**

Core Router

I just need to create user 'guest' in **User Manager Server**



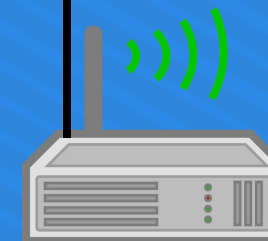
Mikrotik AP1
(North)



Mikrotik AP2
(West)



Mikrotik AP3
(East)



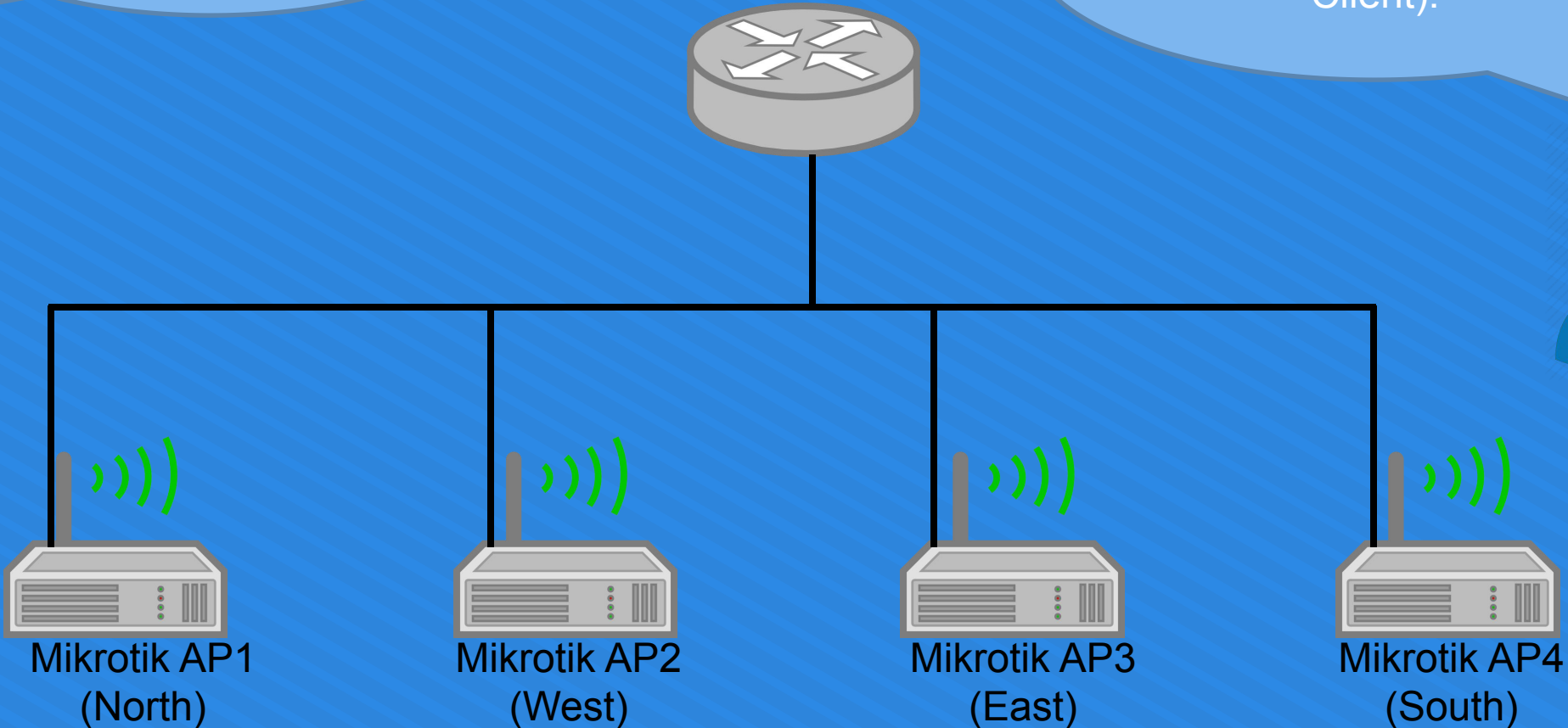
Mikrotik AP4
(South)

Solution 2

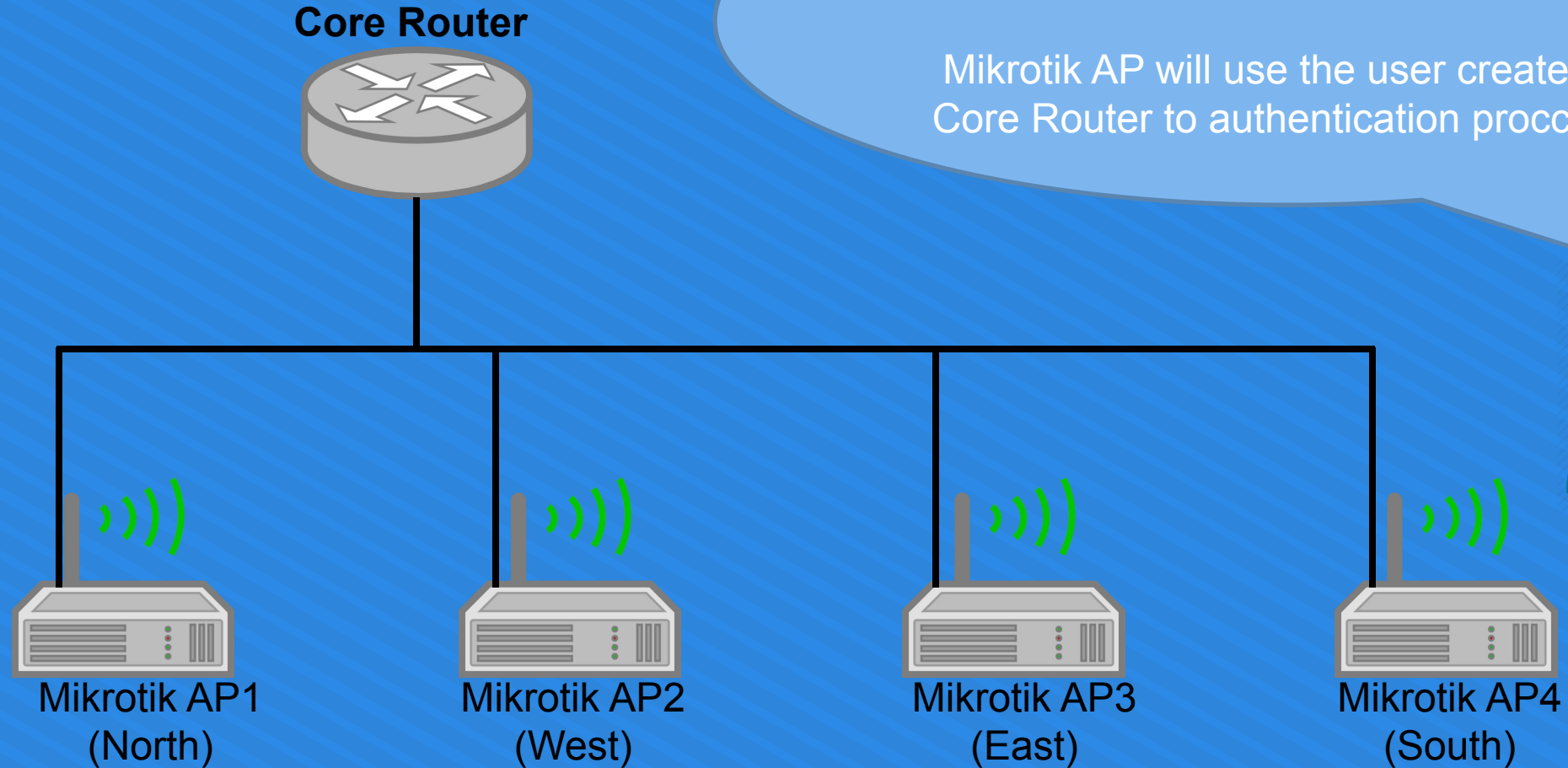
I will configure user manager server (Radius Server) in Core Router

All of Mikrotik AP will become a NAS (Radius Client).


Core Router




Solution 2



Solution 2



How about bandwidth management?



Cause we only create user in Core Router, so we just only need to configure bandwidth management in Core Router too!

Solution 2


How about monitoring??
can you monitor all loged
in user only in Core
Router??




Absouluteley!! Remember that we only
create user in Core Router, so all user
activity will captured by Core Router.



The benefits



So what actually the benefits of user manager?




This is about Efficiency! If we use user manager, we can implement **Centralized User Management**

When we must use User Manager?




So, when we must
use **User Manager**?

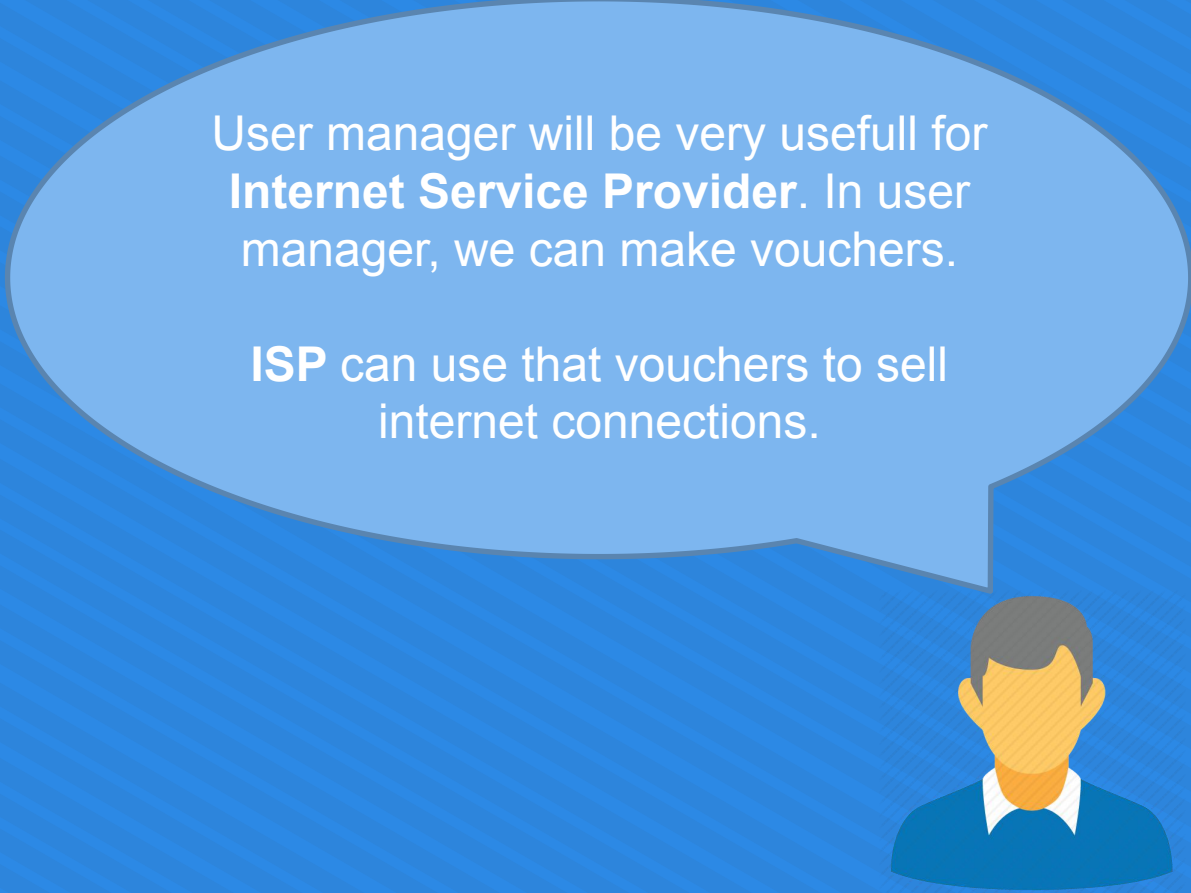


When we have more than one Mikrotik
AP and we need **centralized user
management** method!

Who Needs User Manager?



Who needs user manager??



User manager will be very useful for **Internet Service Provider**. In user manager, we can make vouchers.

ISP can use that vouchers to sell internet connections.

Vouchers Example

This is vouchers example,
generated by User Manager



Hotspot - Internet Card Rs 5000.00

Connect to Wireless Network and open you webbrowser.
Put the **UserName** and **Password** in required field, then
click login button.

UserName:

Password:

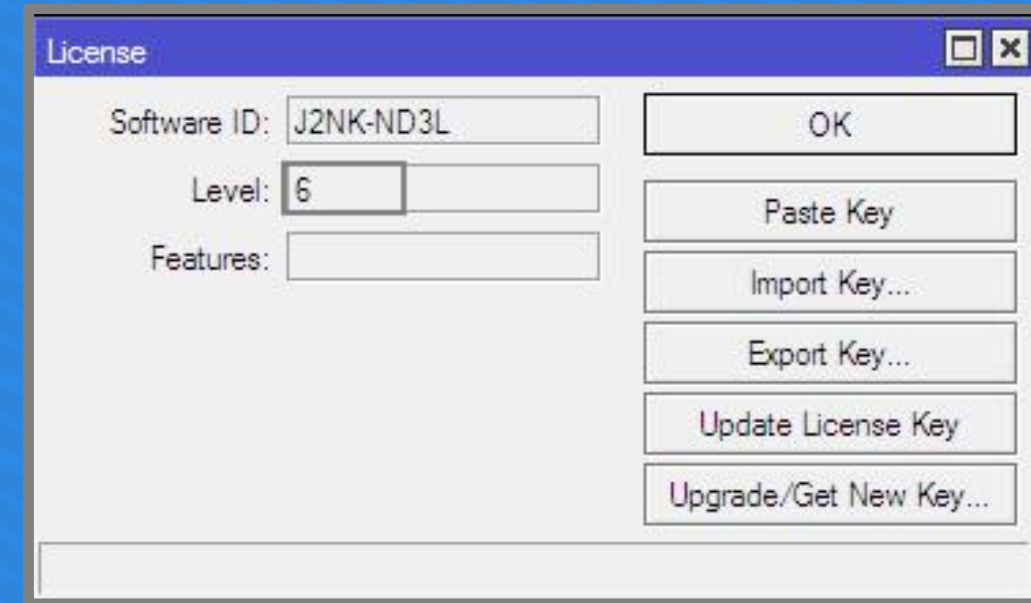
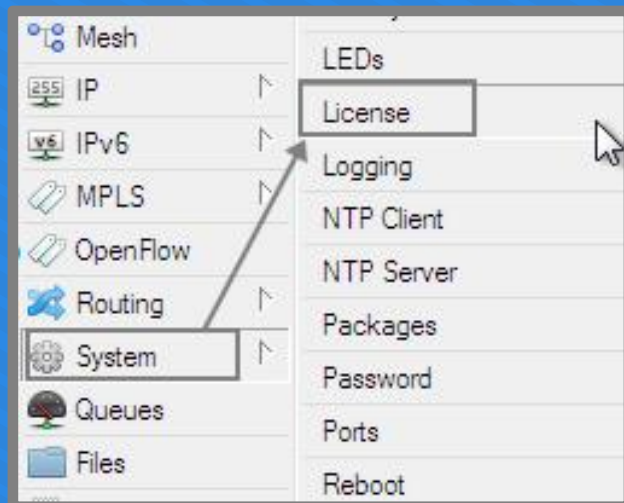
1w3d

Price: 5000.00

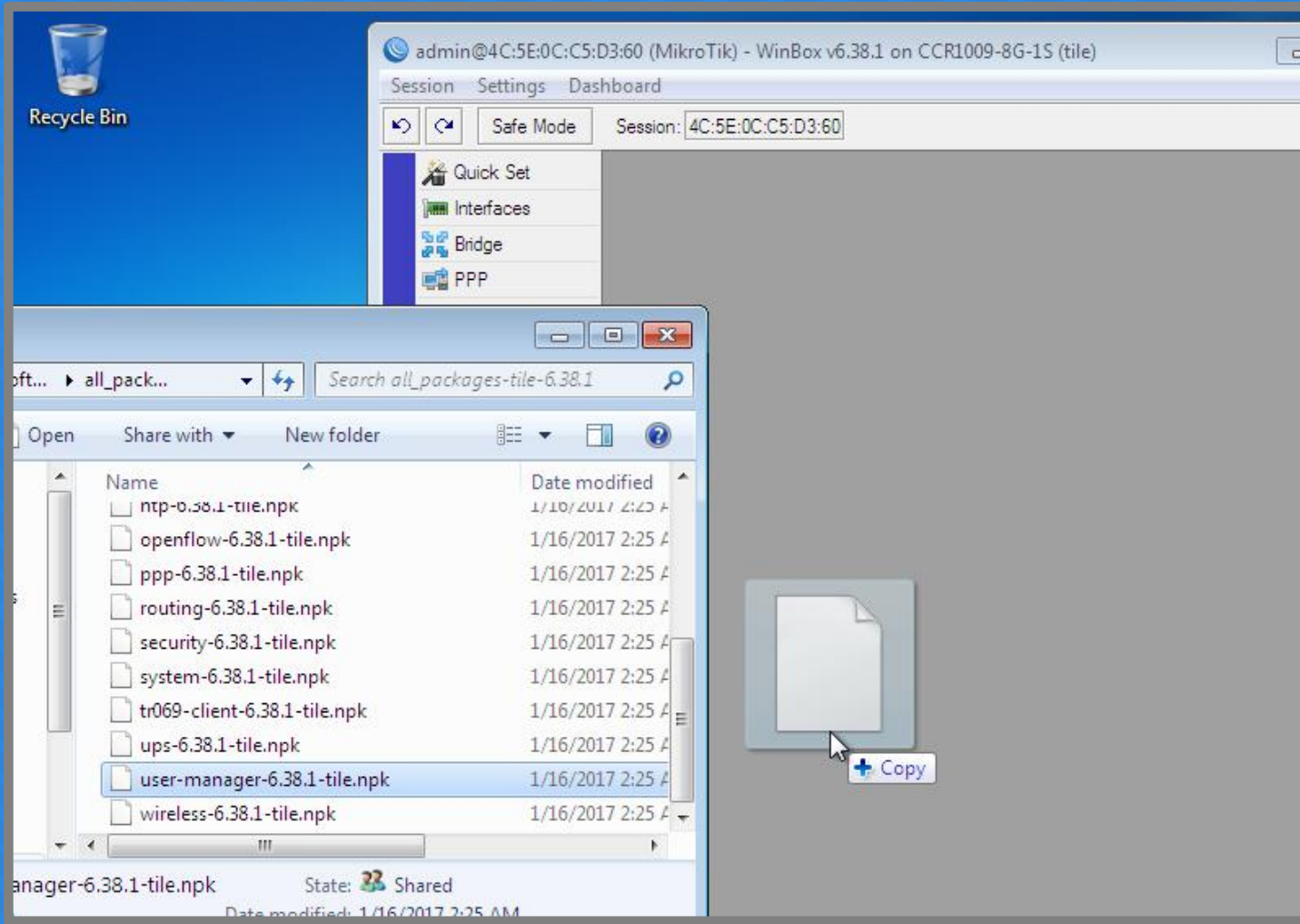
Contact for more info. myconfigure.blogspot.com

Usermanager Limitation

Mikrotik Level	User Manager Active Users
Level 3	1
Level 4	20
Level 5	50
Level 6	Unlimited



User Manager Installation



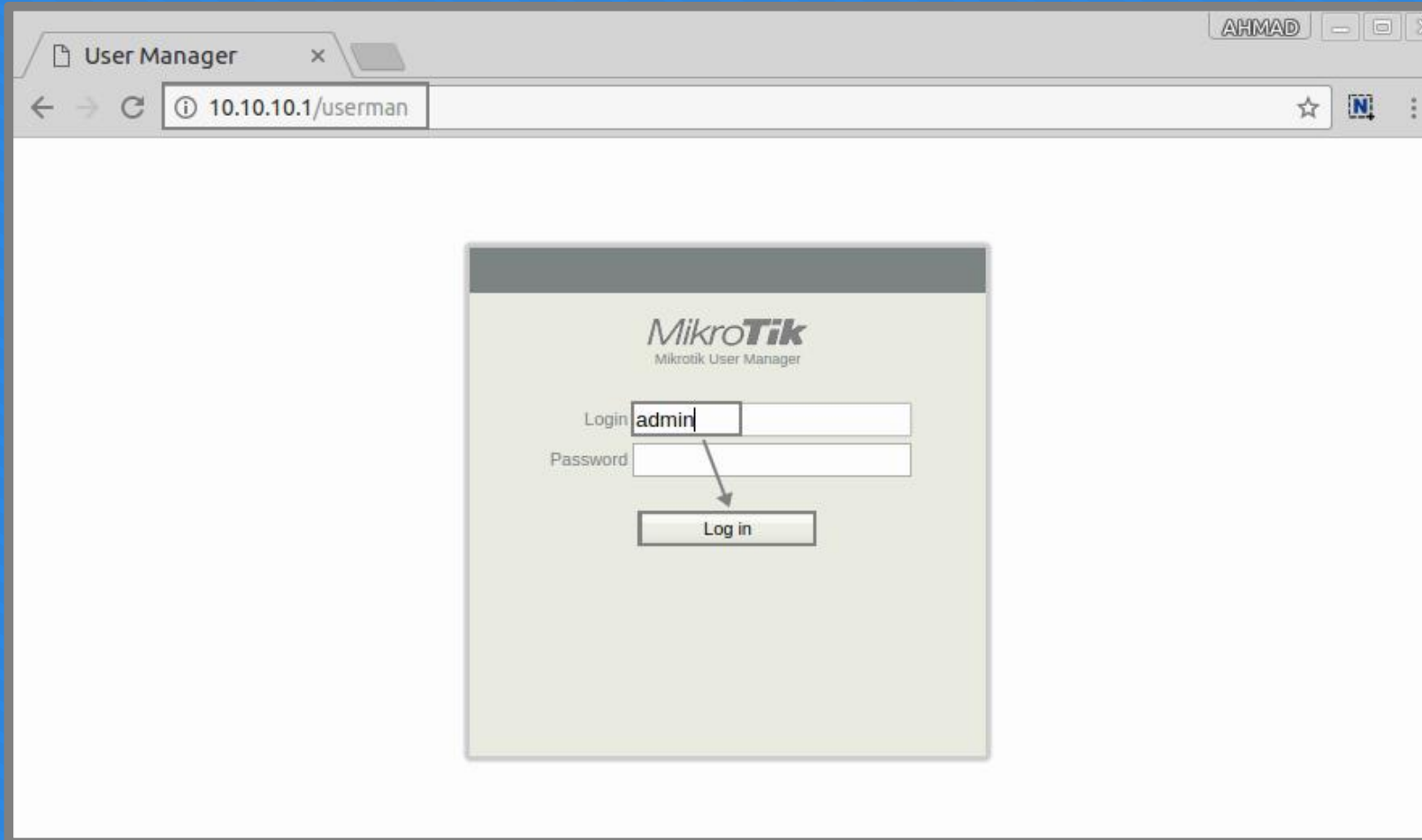
The image shows the "File List" interface in WinBox. It displays a list of files and directories in the "hotspot/xml" and "user-manager" directories. The file "user-manager-6.38.1-tile.npk" is highlighted, indicating it is the package being installed.

File Name	Type	Size
hotspot/xml/WISPAccessGa...	.xsd file	4251 B
hotspot/xml/alogin.html	.html file	821 B
hotspot/xml/error.html	.html file	416 B
hotspot/xml/flogout.html	.html file	361 B
hotspot/xml/login.html	.html file	787 B
hotspot/xml/logout.html	.html file	359 B
hotspot/xml/rlogin.html	.html file	530 B
skins	directory	
um-before-migration.tar	.tar file	17.0 KB
user-manager	directory	
user-manager/logsqldb	file	6.0 KB
user-manager/sqldb	file	80.0 KB
user-manager-6.38.1-tile.npk	package	1200.1 KB

Reboot your router!!

Configuring User Manager

`http://10.10.10.2/userman`



Default user
is admin
with 'blank'
password

Configuring User Manager

The screenshot shows the Mikrotik User Manager web interface. The browser address bar displays '10.10.10.1/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 features a table with columns for Name, IP address, and Shared secret. A 'New' button is visible above the table. A 'Router details' modal window is open, showing the following configuration fields:

- Name: R1
- Owner: admin
- IP address: 10.10.10.2
- Shared secret: 123456
- Time zone: Parent time zone
- Disabled:
- Log events: Authorization failure, Accounting success, Accounting failure

An 'Add' button is located at the bottom of the form, with an arrow pointing to it from the right side of the image.

add router,
which will
managed by
user manager
(R1 & R2)

Configuring User Manager <continue>

The screenshot shows the Mikrotik User Manager web interface. The browser address bar displays '10.10.10.1/userman'. The left sidebar contains a menu with 'Profiles' highlighted. The main content area shows the 'Limitations' tab selected, with an 'Add' button at the top left. Below this is a table with columns for Name, Download, Upload, Transfer, and Uptime. A 'Limitation details' dialog box is open, showing the following configuration:

Field	Value
Name	512k
Owner	admin
Download	512K
Upload	512K
Transfer	0B
Uptime	2h

An 'Add' button is located at the bottom of the dialog box.

add limitation
for profiles

Configuring User Manager <continue>

The screenshot displays the Mikrotik User Manager web interface. The browser address bar shows '10.10.10.1/userman'. The main navigation menu on the left includes 'Routers', 'Users', 'Sessions', 'Customers', 'Logs', 'Payments', 'Profiles', 'Settings', 'Reports', '0 A sessions', '0 A users', 'Advanced search', 'Maintenance', and 'Logout'. The 'Profiles' tab is active, showing a 'Profile: +' button and a dropdown menu with 'profile 512'. A 'Create profile' dialog box is open, with 'Name: profile 512' and a 'Create' button. Below the profile list, there are buttons for 'Save profile', 'Remove profile', and 'Add new limitation'. The 'Unlimited profile' section is visible. A 'Profile part' dialog box is also open, showing 'Period' settings for 'Days' (all days checked) and 'Time' (0:00:00 to 23:59:59). The 'Limits' section is expanded, showing a checked checkbox for '512K' and buttons for 'New limit', 'Cancel', and 'Add'.

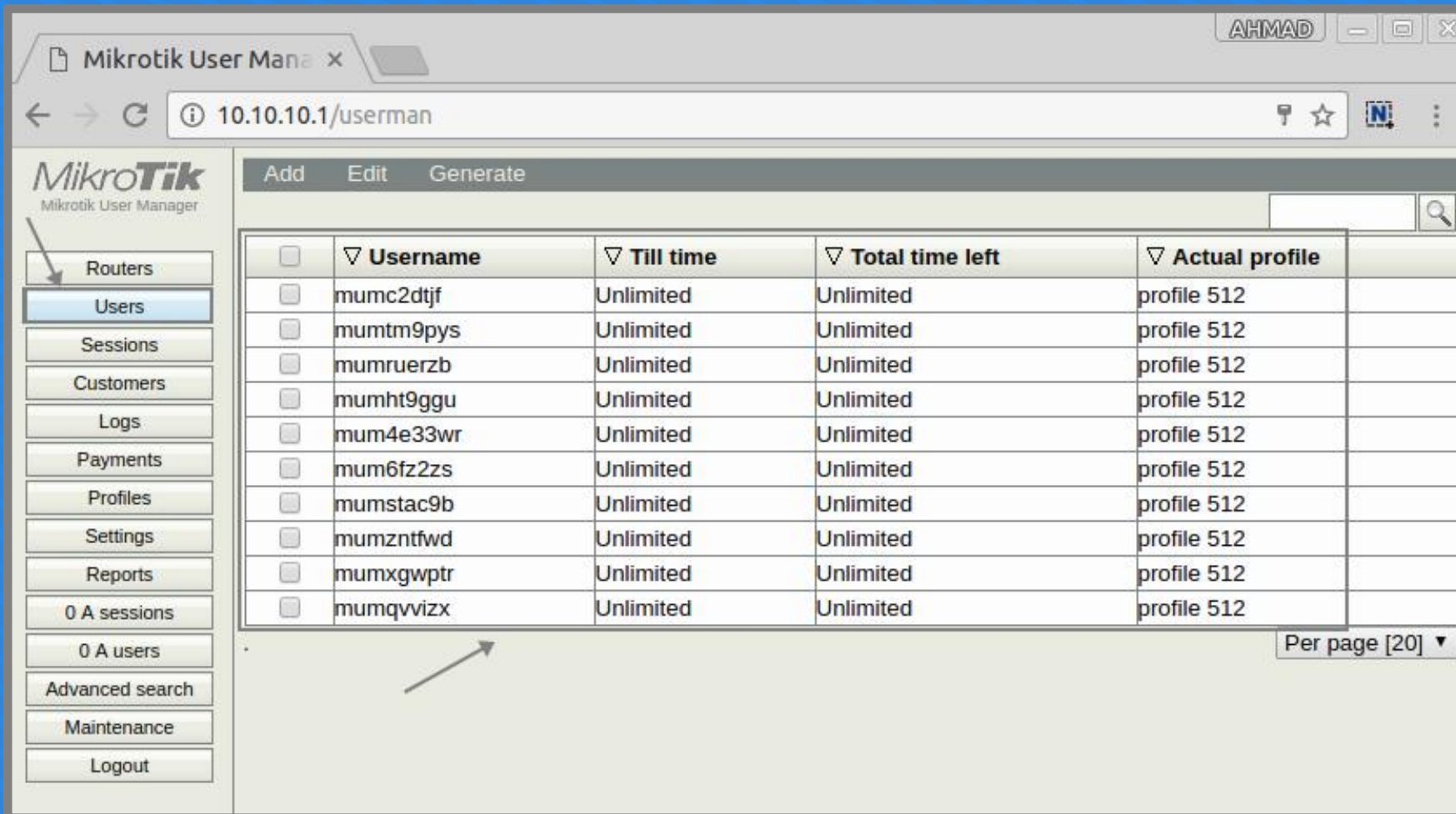
add a new profile

Configuring User Manager <continue>

The screenshot shows the Mikrotik User Manager web interface. The browser address bar displays '10.10.10.1/userman'. The left sidebar contains a menu with items: Routers, Users, Sessions, Customers, Logs, Payments, Profiles, Settings, Reports, 0 A sessions, 0 A users, Advanced search, Maintenance, and Logout. The '0 A users' item is highlighted. The main content area has a top navigation bar with 'Add', 'Edit', and 'Generate' buttons. Below this is a table with columns: Username, Till time, Total time left, and Actual profile. The 'Batch' button is highlighted, and a 'User details' dialog box is open. The dialog box has a 'Main' section with the following fields: Owner (admin), Number of users (10), Username prefix (mum), Username length (6), Pwd same as login (checkbox), and Password length (3). There are also sections for Constraints, Wireless, and Private information, with the 'Assign profile' dropdown set to 'profile 512'. An 'Add' button is at the bottom of the dialog.

create batch users

Configuring User Manager <continue>



The screenshot shows the Mikrotik User Manager web interface. The browser address bar displays '10.10.10.1/userman'. The left sidebar contains a navigation menu with 'Users' selected. The main content area features a table with columns for Username, Till time, Total time left, and Actual profile. The table lists ten users, all with 'Unlimited' values for Till time and Total time left, and 'profile 512' for the Actual profile. A search bar and 'Add', 'Edit', 'Generate' buttons are visible above the table. A 'Per page [20]' dropdown is located at the bottom right of the table area.

<input type="checkbox"/>	▽ Username	▽ Till time	▽ Total time left	▽ Actual profile
<input type="checkbox"/>	mumc2dtjf	Unlimited	Unlimited	profile 512
<input type="checkbox"/>	mumtm9pys	Unlimited	Unlimited	profile 512
<input type="checkbox"/>	mumruerzb	Unlimited	Unlimited	profile 512
<input type="checkbox"/>	mumht9ggu	Unlimited	Unlimited	profile 512
<input type="checkbox"/>	mum4e33wr	Unlimited	Unlimited	profile 512
<input type="checkbox"/>	mum6fz2zs	Unlimited	Unlimited	profile 512
<input type="checkbox"/>	mumstac9b	Unlimited	Unlimited	profile 512
<input type="checkbox"/>	mumzntfwd	Unlimited	Unlimited	profile 512
<input type="checkbox"/>	mumxgwptr	Unlimited	Unlimited	profile 512
<input type="checkbox"/>	mumqvvizx	Unlimited	Unlimited	profile 512

the list of new users

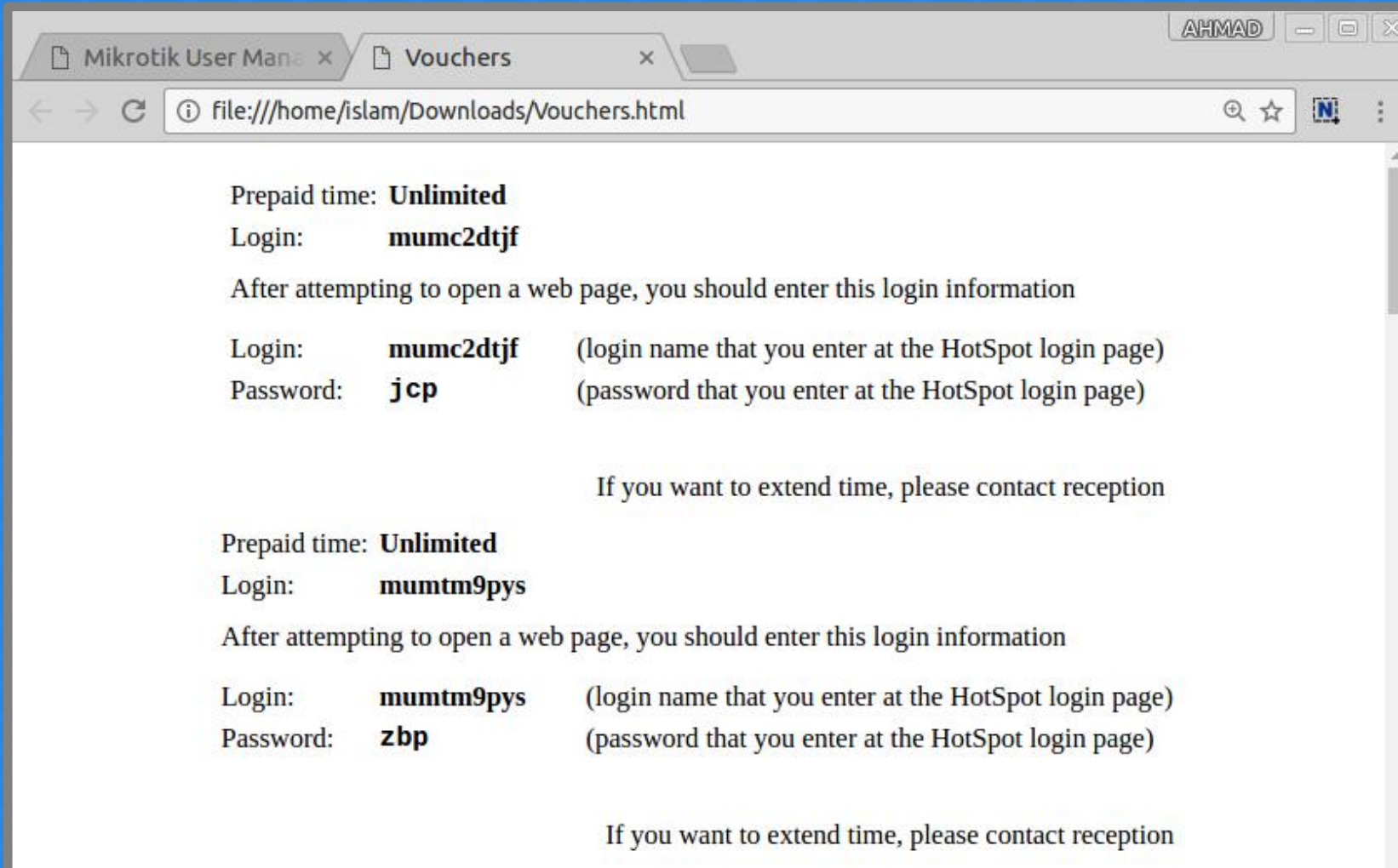
Configuring User Manager <continue>

The screenshot shows the Mikrotik User Manager web interface. The browser address bar displays '10.10.10.1/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 features a table with columns for Username, Till time, Total time left, and Actual profile. A 'Generate Vouchers' dialog box is open, showing a 'Break after' dropdown set to 'None' and a checked 'Download as file' option. A 'Generate' button is visible at the bottom of the dialog. A 'CSV File' tooltip is also present near the table header.

<input checked="" type="checkbox"/>	Username	Till time	Total time left	Actual profile
<input checked="" type="checkbox"/>	mumc2dtjf	Unlimited	Unlimited	profile 512
<input checked="" type="checkbox"/>	mumtm9pys	Unlimited	Unlimited	profile 512
<input checked="" type="checkbox"/>	mumruerzb	Unlimited	Unlimited	profile 512
<input checked="" type="checkbox"/>	mumht9ggg	Unlimited	Unlimited	profile 512
<input checked="" type="checkbox"/>	mum4e33wr	Unlimited	Unlimited	profile 512
<input checked="" type="checkbox"/>	mum6fz2zs			profile 512
<input checked="" type="checkbox"/>	mumstac9b			profile 512
<input checked="" type="checkbox"/>	mumzntfwd			profile 512
<input checked="" type="checkbox"/>	mumxgwptr			profile 512
<input checked="" type="checkbox"/>	mumqvvizx			profile 512

generate vouchers for users

Configuring User Manager <continue>



The screenshot shows a web browser window with two tabs: 'Mikrotik User Man...' and 'Vouchers'. The address bar displays 'file:///home/islam/Downloads/Vouchers.html'. The page content is as follows:

Prepaid time: **Unlimited**
Login: **mumc2dtjf**
After attempting to open a web page, you should enter this login information

Login: **mumc2dtjf** (login name that you enter at the HotSpot login page)
Password: **jcp** (password that you enter at the HotSpot login page)

If you want to extend time, please contact reception

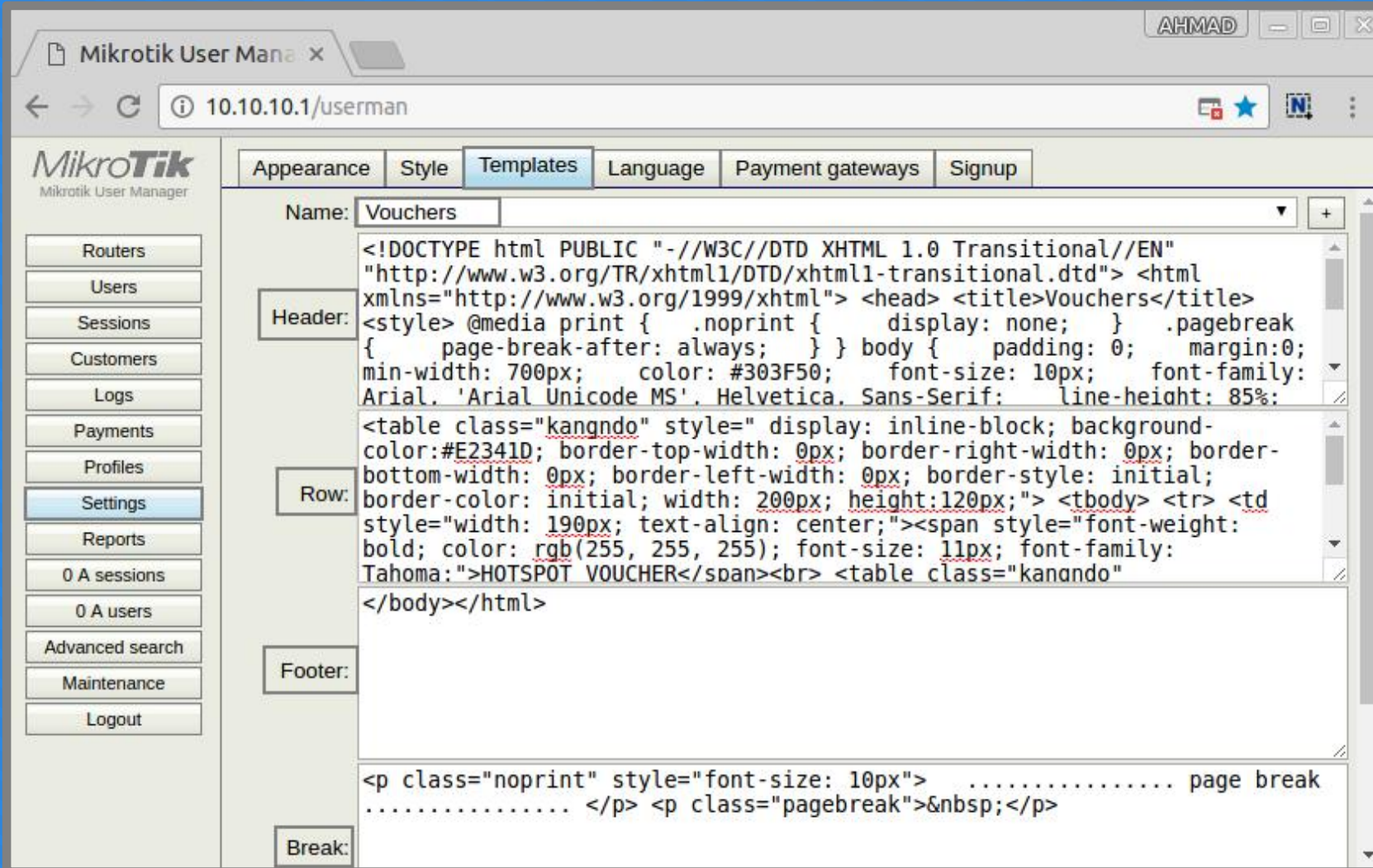
Prepaid time: **Unlimited**
Login: **mumtm9pys**
After attempting to open a web page, you should enter this login information

Login: **mumtm9pys** (login name that you enter at the HotSpot login page)
Password: **zbp** (password that you enter at the HotSpot login page)

If you want to extend time, please contact reception

the result
of vouchers

Configuring User Manager <continue>



The screenshot shows the Mikrotik User Manager web interface. The browser address bar displays '10.10.10.1/userman'. The 'Templates' tab is selected in the top navigation bar. The 'Name' field is set to 'Vouchers'. The 'Header' section contains the following HTML code:

```
<!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 { .noprint { display: none; } .pagebreak
{ page-break-after: always; } } body { padding: 0; margin:0;
min-width: 700px; color: #303F50; font-size: 10px; font-family:
Arial, 'Arial Unicode MS', Helvetica, Sans-Serif; line-height: 85%;
```

The 'Row' section contains the following HTML code:

```
<table class="kangndo" style=" display: inline-block; background-
color:#E2341D; border-top-width: 0px; border-right-width: 0px; border-
bottom-width: 0px; border-left-width: 0px; border-style: initial;
border-color: initial; width: 200px; height:120px;"> <tbody> <tr> <td
style="width: 190px; text-align: center;"><span style="font-weight:
bold; color: rgb(255, 255, 255); font-size: 11px; font-family:
Tahoma:">HOTSPOT VOUCHER</span><br> <table class="kanando"
```

The 'Footer' section contains the following HTML code:

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

The 'Break' section is empty.

Change vouchers
template.

You can download
voucher template
from internet

Configuring User Manager <continue>

The screenshot shows a web browser window with the address bar displaying 'file:///home/islam/Downloads/Vouchers%20.html'. The page title is 'Mikrotik User Manager Vouchers'. The content consists of a 3x3 grid of voucher templates. Each template is a red-bordered box with a white background and a red header 'HOTSPOT VOUCHER'. The price 'Rp 0.00' is displayed vertically on the right side of each box. Each voucher has the following details:

- Package: profile 512
- Data limit: Unlimited
- Time Limit: 2h
- Validity: Unlimited
- Speed: Up to 100Mbps
- Call: 085 646 504 140

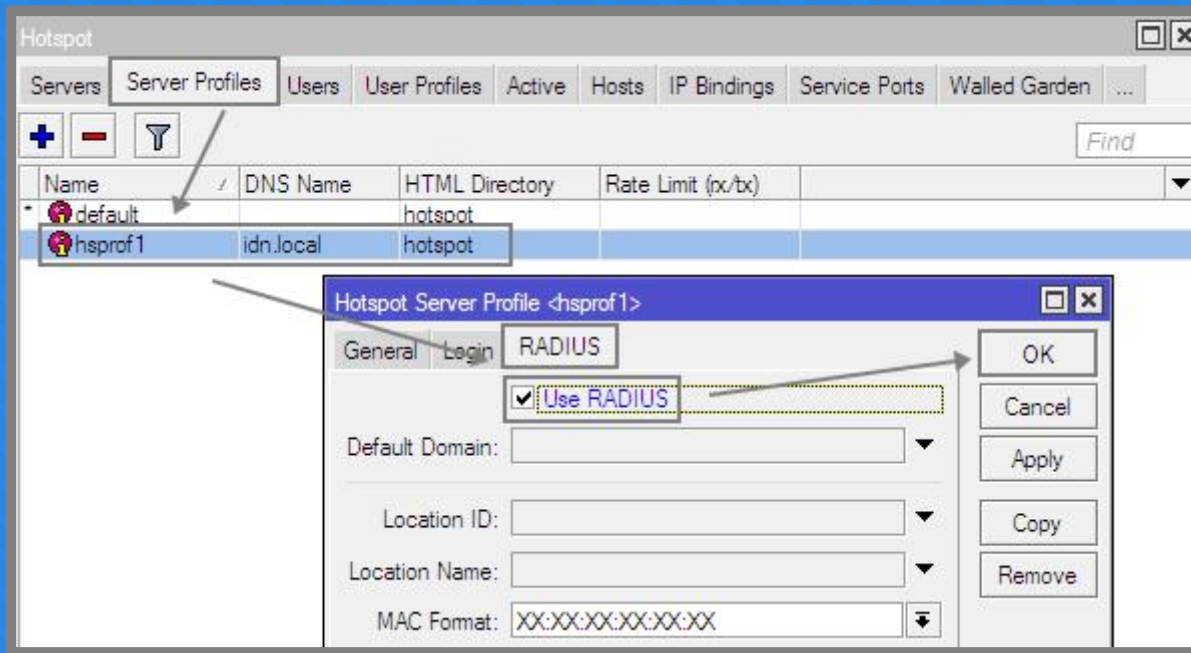
The Username and Password fields are filled with different alphanumeric strings for each voucher:

- Top-left: Username: mumc2dtjf, Password: jcp
- Top-middle: Username: mumtm9pys, Password: zbp
- Top-right: Username: mumruerzb, Password: a2t
- Middle-left: Username: mumht9gggu, Password: 29y
- Middle-middle: Username: mum4e33wr, Password: ymh
- Middle-right: Username: mum6fz2zs, Password: agf
- Bottom-left: Username: mumstac9b, Password: gbd
- Bottom-middle: Username: mumzntfwd, Password: p2r
- Bottom-right: Username: mumxgwptr, Password: 3s2

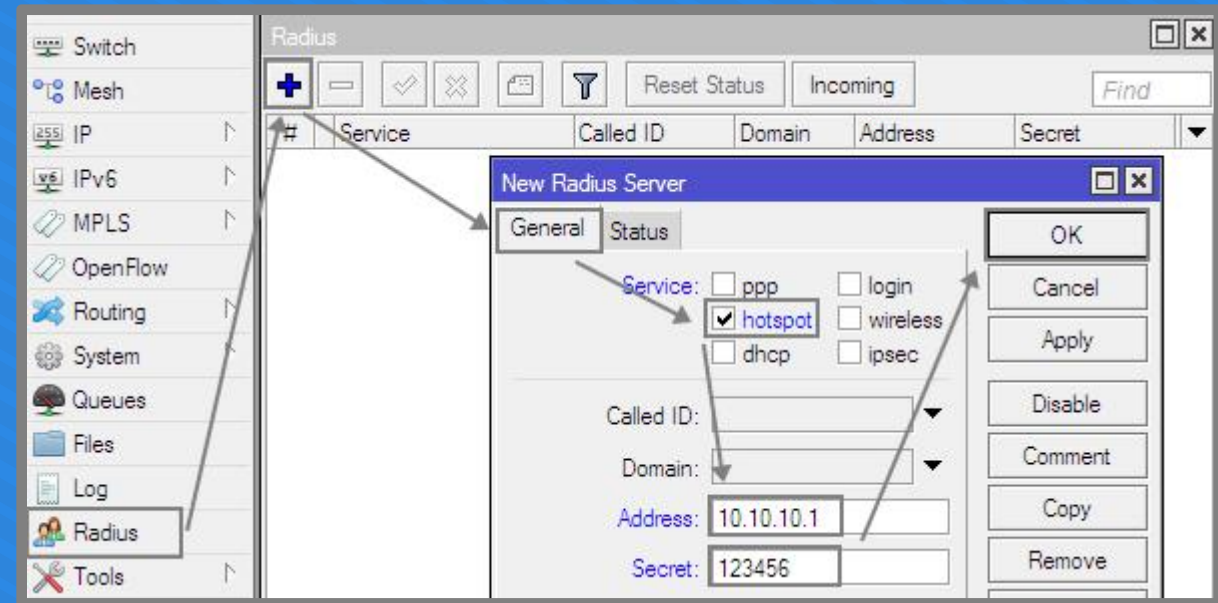
Vouchers after
change the
template

Look more beauty
right??

R1 & R2 Configuration



connecting hotspot server to user manager



Testing!!

Please log on to use the internet hotspot service

login

password

HOTSPOT GATEWAY
powered by **MikroTik**

Powered by MikroTik RouterOS

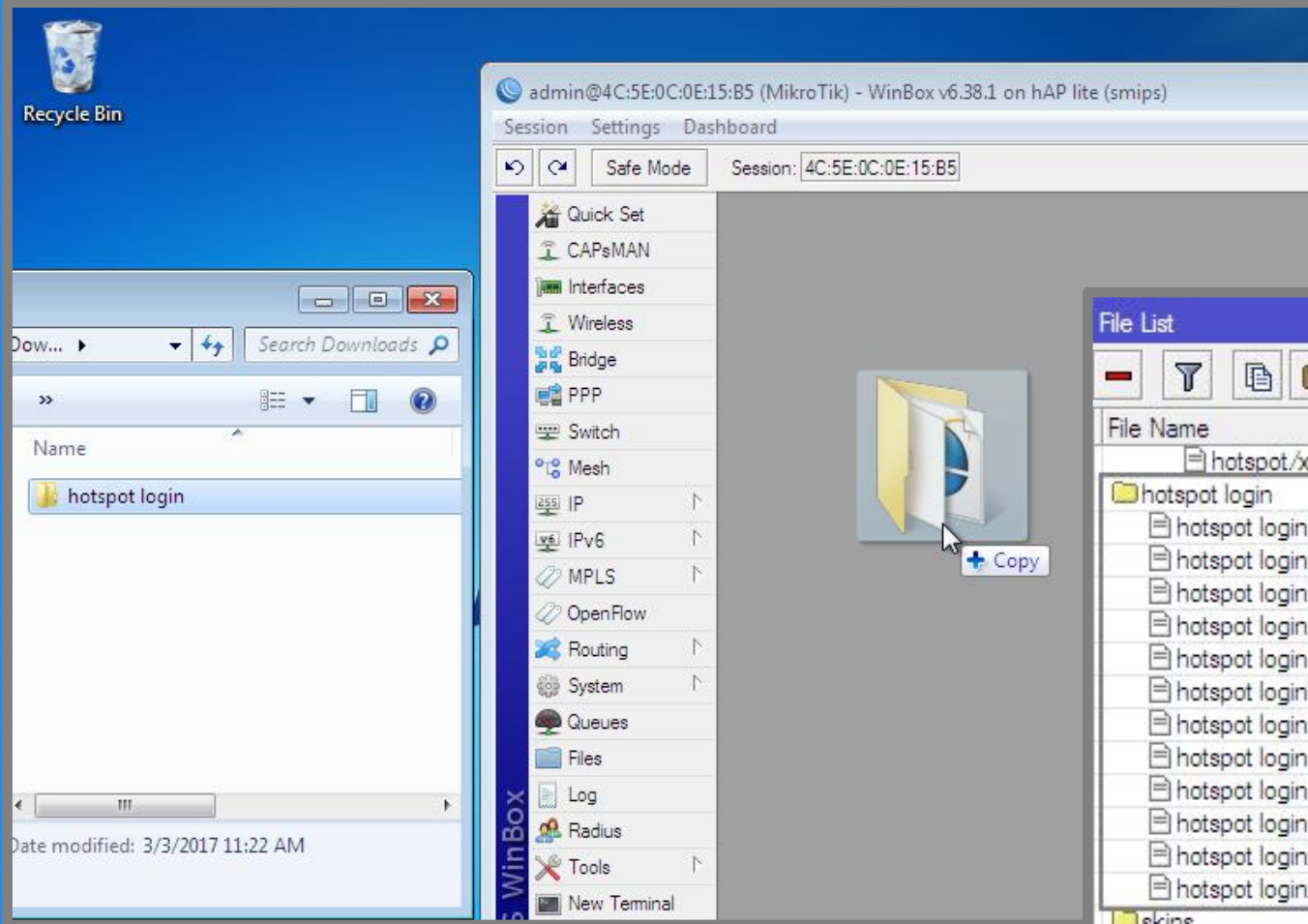
Let's try to login with one of user from vouchers

Welcome mumc2dtjf!

IP address:	192.168.1.253
bytes up/down:	1808 B / 426 B
connected / left:	2m5s / 1h57m55s
status refresh:	1m

Configuration Again!!

Change hotspot login template

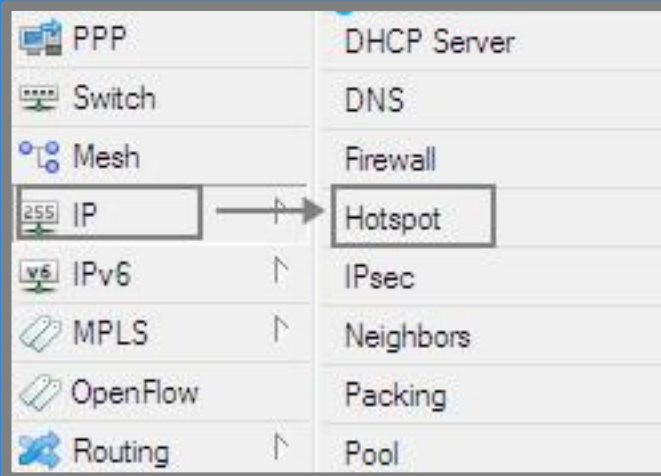


The File List window displays the contents of the 'hotspot login' directory. The table below shows the file names, types, sizes, and creation times.

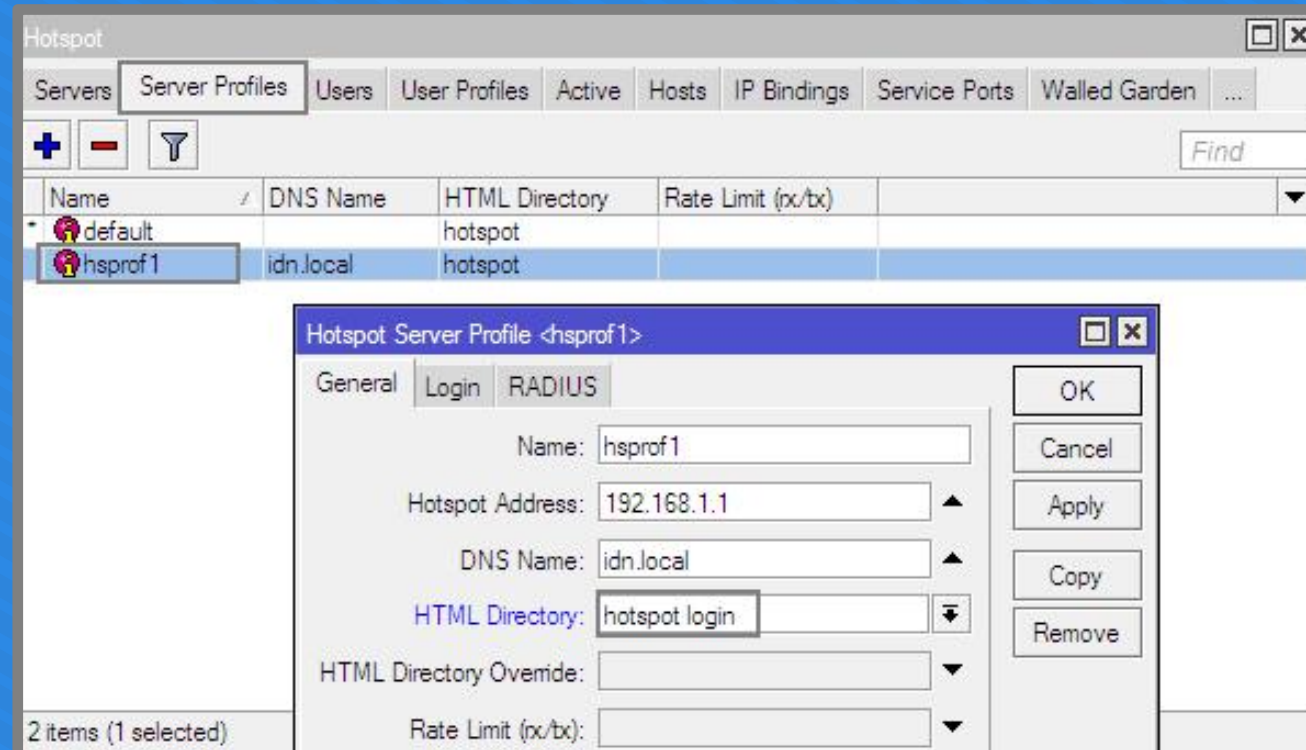
File Name	Type	Size	Creation Time
hotspot/xml/login.html	.html file	530 B	Jan/02/1970 00:30:47
hotspot login	directory		Jan/02/1970 00:55:28
hotspot login/alogin.html	.html file	2460 B	Jan/02/1970 00:55:29
hotspot login/error.html	.html file	898 B	Jan/02/1970 00:55:29
hotspot login/errors.txt	.txt file	3615 B	Jan/02/1970 00:55:29
hotspot login/login.css	.css file	2062 B	Jan/02/1970 00:55:29
hotspot login/login.html	.html file	2237 B	Jan/02/1970 00:55:29
hotspot login/logo.png	.png file	82.2 KiB	Jan/02/1970 00:55:29
hotspot login/logout.html	.html file	1813 B	Jan/02/1970 00:55:29
hotspot login/md5.js	.js file	7.0 KiB	Jan/02/1970 00:55:29
hotspot login/radvert.html	.html file	1481 B	Jan/02/1970 00:55:29
hotspot login/redirect.html	.html file	318 B	Jan/02/1970 00:55:29
hotspot login/rlogin.html	.html file	850 B	Jan/02/1970 00:55:29
hotspot login/status.html	.html file	3009 B	Jan/02/1970 00:55:29
skins	directory		Jan/01/1970 00:00:02

45 items (1 selected) | 8.6 MiB of 16.0 MiB used | 46% free

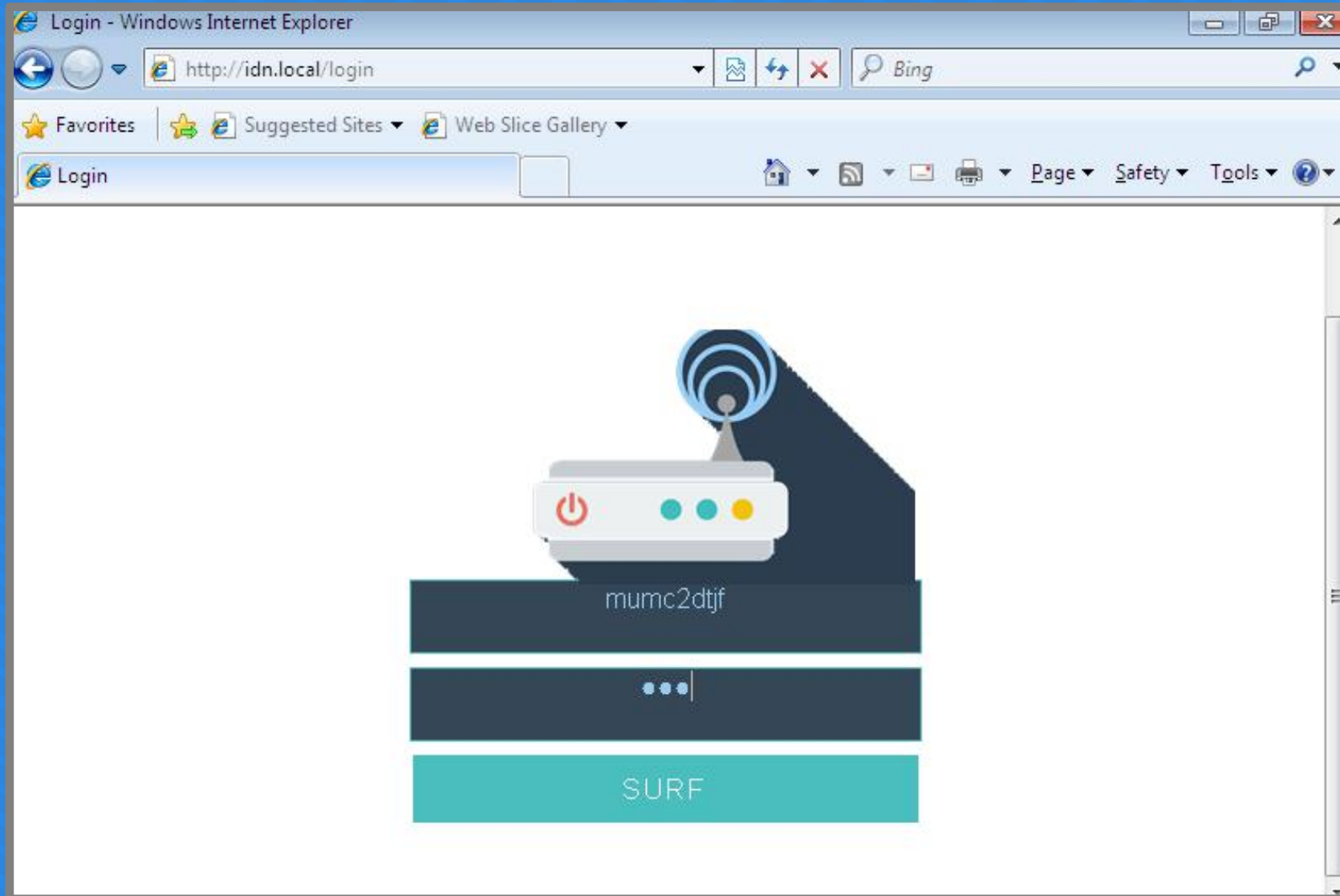
Configuration Again!!



Change hotspot login template



Let's Try Again!



Login page is changed by new template!!

Thank You!

fb.com/ahmadrosidkomarudin

WA/Telegram +6285 646 504 140

ahmadrosid30121997@gmail.com

