

# **SIMPLE HOTSPOT**

MIKROTIK

Presented by

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**MUM LAOS 2017**



# About me

- ▶ MANA KAEWCHAROEN
- ▶ MikroTik Certified Trainer
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- ▶ MTCNA,MTCRE,MTCWE
- ▶ MTCTCE,MTCUME,MTCINE,MTCIPv6E



# About VRProService

**VRPRO SERVICE**

▶ เปิดสอนคอร์ส MikroTik สำหรับองค์กรที่มีความสนใจ พร้อมสอบ Certificate

คุณย่อมรู้ MikroTik

## PRIVATE COURSE

**MikroTik CERTIFIED TRAINER**

- MikroTik MTCNA
- MikroTik MTCRE
- MikroTik MTCSE
- MikroTik MTCWE
- MikroTik MTCUME
- MikroTik MTCINE

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**VRPRO SERVICE**

รับวางระบบ Internet WiFi Hotspot ระบบ Network ต่างๆ ภายในอาคาร ทอพัก อพาร์ทเมนท์ โรงแรม ...โดยทีมงาน มืออาชีพ...

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รับติดตั้งระบบ **WiFi** **ทำให้ลองแล้ววันนี้**  
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# Contact

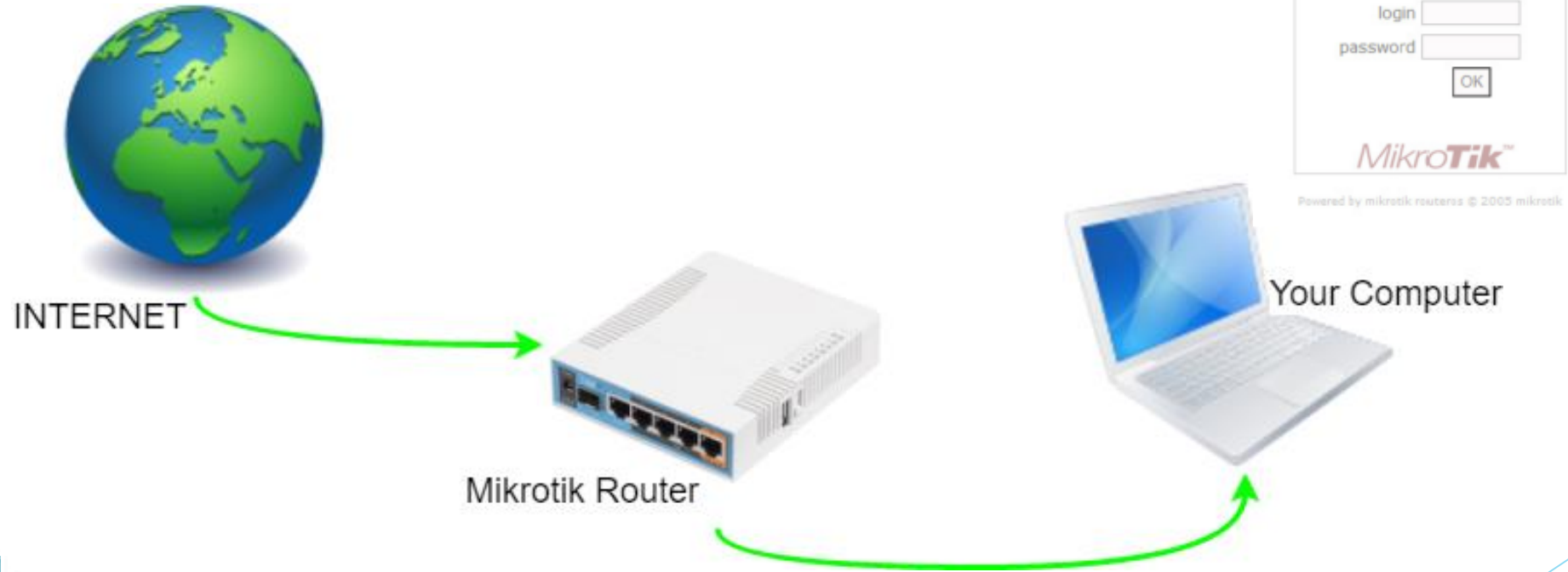
- ▶ Website : [www.vrproservice.com](http://www.vrproservice.com)
- ▶ Facebook Page : <https://www.facebook.com/vrproservices>
- ▶ Sales : [sales@vrproservice.com](mailto:sales@vrproservice.com)
- ▶ Support : [support@vrproservice.com](mailto:support@vrproservice.com)
- ▶ Call Center : +6696 659 1415



# What is Hotspot ?



# Diagram Hotspot LAB



# Package Hotspot

Package List

Check For Updates Enable Disable Uninstall Unschedule Downgrade

Name	Version	Build Time	Scheduled
routeros-smips	6.37.4	Jan/13/2017 06:52:21	
advancedt...	6.37.4	Jan/13/2017 06:52:21	
dhcp	6.37.4	Jan/13/2017 06:52:21	
hotspot	6.37.4	Jan/13/2017 06:52:21	
ipv6	6.37.4	Jan/13/2017 06:52:21	
mpls	6.37.4	Jan/13/2017 06:52:21	
ppp	6.37.4	Jan/13/2017 06:52:21	
routing	6.37.4	Jan/13/2017 06:52:21	
security	6.37.4	Jan/13/2017 06:52:21	
system	6.37.4	Jan/13/2017 06:52:21	
wireless	6.37.4	Jan/13/2017 06:52:21	

11 items

# Package Hotspot

all\_packages-mipsbe-6.37.4.zip - WinRAR (evaluation copy)

File Commands Tools Favorites Options Help

Add Extract To Test View Delete Find Wizard Info VirusScan Co

all\_packages-mipsbe-6.37.4.zip - ZIP archive, unpacked size 13,500,514 bytes

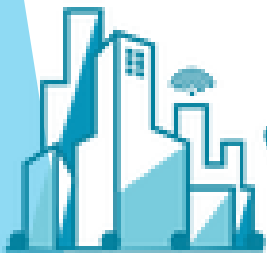
Name	Size	Packed	Type
..			Local Disk
wireless-6.37.4-mipsbe.npk	1,224,785	1,219,649	NPK File
user-manager-6.37.4-mipsbe.npk	868,433	863,461	NPK File
ups-6.37.4-mipsbe.npk	69,713	64,857	NPK File
system-6.37.4-mipsbe.npk	7,199,408	7,103,329	NPK File
security-6.37.4-mipsbe.npk	340,049	332,616	NPK File
routing-6.37.4-mipsbe.npk	131,153	124,432	NPK File
ppp-6.37.4-mipsbe.npk	315,473	309,015	NPK File
openflow-6.37.4-mipsbe.npk	82,001	77,032	NPK File
ntp-6.37.4-mipsbe.npk	270,417	265,837	NPK File
multicast-6.37.4-mipsbe.npk	77,905	72,602	NPK File
mpls-6.37.4-mipsbe.npk	102,481	94,618	NPK File
lte-6.37.4-mipsbe.npk	1,990,737	1,985,664	NPK File
lcd-6.37.4-mipsbe.npk	61,521	56,789	NPK File
ipv6-6.37.4-mipsbe.npk	241,745	236,362	NPK File
hotspot-6.37.4-mipsbe.npk	192,593	185,805	NPK File
gps-6.37.4-mipsbe.npk	20,561	15,950	NPK File
dhcp-6.37.4-mipsbe.npk	184,401	177,466	NPK File
calea-6.37.4-mipsbe.npk	20,561	15,815	NPK File
advanced-tools-6.37.4-mipsbe.npk	106,577	99,156	NPK File



# เมนูตั้งค่า

The image shows the Mikrotik WinBox interface for configuring a Hotspot. The left sidebar contains a menu with 'Hotspot' highlighted (1). The main window shows the 'Hotspot Setup' wizard with 12 numbered steps:

1. Select 'Hotspot' in the left sidebar.
2. Click 'Hotspot' in the main menu.
3. Click 'Hotspot Setup' in the top toolbar.
4. Select the interface to run the HotSpot on (bridge1).
5. Set the HotSpot address for the interface (Local Address of Network: 10.5.50.1/24).
6. Set the pool for HotSpot addresses (Address Pool of Network: 10.5.50.2-10.5.50.254).
7. Select the hotspot SSL certificate (none).
8. Select the SMTP server (IP Address of SMTP Server: 0.0.0.0).
9. Setup DNS configuration (DNS Servers).
10. Enter the DNS name of the local hotspot server (DNS Name).
11. Create a local HotSpot user (Name of Local HotSpot User: admin, Password for the User).
12. Click 'OK' on the 'Hotspot Setup' completion dialog.



# รูปแบบการเข้าถึง

- MAC
- HTTP CHAP
- HTTP PAP
- MAC Cookie
- Cookie
- HTTPS
- Trial

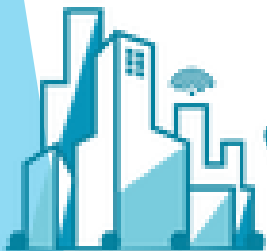
The screenshot shows the 'Hotspot Server Profile <hsp1>' window with the 'RADIUS' tab selected. The 'Login By' section has 'MAC' selected in a dropdown menu. The 'Login By' options are:  MAC,  Cookie,  HTTP CHAP,  HTTPS,  HTTP PAP,  Trial, and  MAC Cookie. The 'MAC Auth. Mode' is set to 'MAC as username' and 'MAC Auth. Password' is empty. The 'HTTP Cookie Lifetime' is set to '3d 00:00:00', 'SSL Certificate' is 'none', and 'Split User Domain' is unchecked. The 'Trial Uptime Limit' is '00:30:00', 'Trial Uptime Reset' is '1d 00:00:00', and 'Trial User Profile' is 'default'. On the right side, there are buttons for 'OK', 'Cancel', 'Apply', 'Copy', and 'Remove'. The bottom of the window shows 'default'.

# การตั้งค่า Radius

The screenshot shows the Mikrotik WinBox interface. On the left sidebar, the 'Radius' menu item is highlighted with a red circle and the number 1. In the main window, the 'Radius' configuration table is visible, and the '+' button to add a new server is highlighted with a red circle and the number 2. A 'New Radius Server' dialog box is open, showing the 'General' tab. The 'OK' button in the dialog is highlighted with a red circle and the number 3. The dialog contains the following fields:

- Service:  ppp,  hotspot,  login,  wireless,  dhcp,  ipsec
- Called ID: [ ]
- Domain: [ ]
- Address: 127.0.0.1
- Secret: mikrotik
- Authentication Port: 1812
- Accounting Port: 1813
- Timeout: 300 ms
- Accounting Backup
- Realm: [ ]
- Src. Address: [ ]

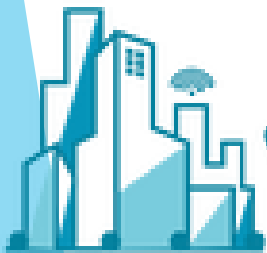
Buttons in the dialog include OK, Cancel, Apply, Disable, Comment, Copy, Remove, and Reset Status. The status at the bottom of the dialog is 'enabled'.



# การตั้งค่า Radius

The screenshot displays the Mikrotik WinBox interface for configuring a Hotspot Server Profile. The left sidebar shows the navigation menu with 'Server Profiles' highlighted (1). The main window shows the 'Hotspot Server Profile <hsprof1>' configuration. The 'RADIUS' tab is selected, and the 'Use RADIUS' checkbox is checked (2). The 'OK' button is highlighted (3). The configuration fields include:

- Default Domain: [ ]
- Location ID: [ ]
- Location Name: [ ]
- MAC Format: XX:XX:XX:XX:XX:XX
- Accounting:
- Interim Update: [ ]
- NAS Port Type: 19 (wireless-802.11)



# การจำกัดสิทธิ์อุปกรณ์

## Type

- blocked
- bypassed
- regular

ใช้เมนู IP Bindings

The screenshot shows the 'Hotspot' configuration window with the 'IP Bindings' tab selected. A table lists existing bindings, and a dialog box is open for creating a new one. Red circles with numbers 1, 2, and 3 highlight the 'IP Bindings' tab, the 'Add' (+) button, and the 'Type' dropdown menu, respectively.

#	MAC Address	Address	To Address	Server
0	F0:DE:F1:6A:17:D4			all

**New Hotspot IP Binding**

MAC Address:

Address:

To Address:

Server: all

Type: **regular** (dropdown menu open showing: regular, blocked, bypassed, regular)

Buttons: OK, Cancel, Apply, Disable, Comment, Copy, Remove

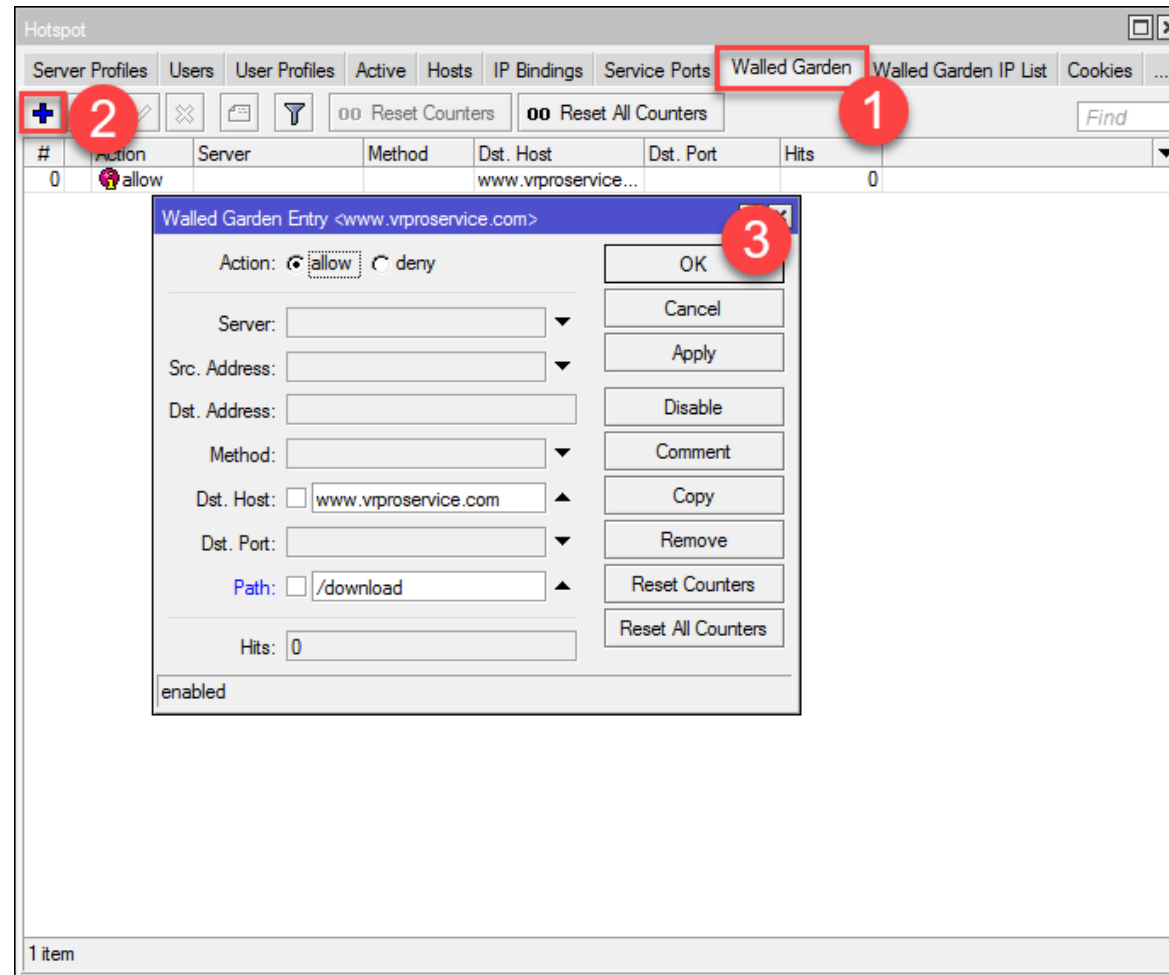
enabled

1 item (1 selected)

# การกำหนดสิทธิ์ Host ปลายทาง

- Server
- Dst. Address
- Src. Address
- Method
- Dst. Host
- Dst. Port
- Path

ใช้เมนู Walled Garden



# การตั้งค่า Usermanager



Login : admin

Pass :

A screenshot of the MikroTik User Manager login page. The page has a light beige background. At the top, the MikroTik logo is displayed, followed by the text 'MikroTik User Manager'. Below this, there are two input fields: one labeled 'Login' and one labeled 'Password'. A 'Log in' button is positioned below the password field.

# การตั้งค่า Usermanager

The screenshot displays the MikroTik User Manager web interface. On the left is a navigation menu with the following items: Routers, Users, Sessions, Customers, Logs, Payments, Profiles (highlighted with a red box), Settings, Reports, 0 A sessions, 0 A users, Advanced search, Maintenance, and Logout. The main content area has two tabs: 'Profiles' (active) and 'Limitations'. Below the tabs, it shows 'Profile: +' with a plus sign button. A 'Create profile' dialog box is open in the foreground, featuring a text input field for 'Name' containing the text 'Guest' and a 'Create' button (highlighted with a red box).



# การตั้งค่า Usermanager

The screenshot displays the MikroTik User Manager web interface. On the left sidebar, the 'Users' menu item is highlighted with a red box. The main content area shows a table with columns for 'Username', 'Total Time Left', and 'Total Time Used'. A 'User details' dialog box is open, showing configuration options for a user profile. The 'Add' button at the bottom of the dialog is also highlighted with a red box.

**MikroTik**  
Mikrotik User Manager

Add Edit Generate

Username

**User details**

- ▲ Main
  - Owner: admin
  - Number of users: 10
  - Username prefix: g
  - Username length: 6
  - Pwd same as login:
  - Password length: 6
- ▼ Constraints
- ▼ Wireless
- ▼ Private information
  - Assign profile: Guest

Add

# การตั้งค่า Usermanager

**MikroTik**  
Mikrotik User Manager

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

Admin Edit Generate  
CSV File  
Vouchers

<input checked="" type="checkbox"/>	▽	▽ Till time	▽ Total time left
<input checked="" type="checkbox"/>		Not set	
<input checked="" type="checkbox"/>		Not set	
<input checked="" type="checkbox"/>		Not set	
<input checked="" type="checkbox"/>		Not set	
<input checked="" type="checkbox"/>		Not set	
<input checked="" type="checkbox"/>		Not set	
<input checked="" type="checkbox"/>		Not set	
<input checked="" type="checkbox"/>		Not set	
<input checked="" type="checkbox"/>		Not set	
<input checked="" type="checkbox"/>		Not set	

# การตั้งค่า Usermanager

MikroTik  
Mikrotik User Manager

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

Add Edit Generate

<input checked="" type="checkbox"/>	▽ Username	▽ Till time	▽ Total time left
<input checked="" type="checkbox"/>	g7jurz8	Not set	
<input checked="" type="checkbox"/>	gaiqku3	Not set	
<input checked="" type="checkbox"/>	gs7xnaw	Not set	
<input checked="" type="checkbox"/>	ge4ptym	Not set	
<input checked="" type="checkbox"/>	gvhksvm	Not set	
<input checked="" type="checkbox"/>	gyyxbfw	Not set	
<input checked="" type="checkbox"/>	gsdd5ks	Not set	
<input checked="" type="checkbox"/>	g3kvi46	Not set	
<input checked="" type="checkbox"/>	gebkqv3	Not set	
<input checked="" type="checkbox"/>	gk7hhph	Not set	

Vouchers

Break after:

Download as file

Generate

# การตั้งค่า Usermanager

The screenshot displays the MikroTik User Manager web interface. On the left is a navigation menu with options: Routers, Users, Sessions, Customers, Logs, Payments, Profiles, Settings, Reports, 0 A sessions, 0 A users, Advanced search, Maintenance, and Logout. The main area shows a table with columns: Username, Till time, Total time left, and Actual profile. A 'Vouchers' popup window is overlaid on the table, containing the text 'Click here if the popup didn't show up'. The interface also includes 'Add', 'Edit', and 'Generate' buttons at the top, a search bar, and a 'Per page [20]' dropdown.

<input checked="" type="checkbox"/>	Username	Till time	Total time left	Actual profile
<input checked="" type="checkbox"/>	g7jurz8	Not set		
<input checked="" type="checkbox"/>	gaiqku3	Not set		
<input checked="" type="checkbox"/>	gs7xnaw	Not set		
<input checked="" type="checkbox"/>	ge4ptym	Not set		
<input checked="" type="checkbox"/>	gvhksvm	Not set		
<input checked="" type="checkbox"/>	gyyxbfw	Not set		
<input checked="" type="checkbox"/>	gsdd5ks	Not set		
<input checked="" type="checkbox"/>	g3kvi46	Not set		
<input checked="" type="checkbox"/>	gebkqv3	Not set		
<input checked="" type="checkbox"/>	gk7hhph	Not set		

# การตั้งค่า Usermanager

VRProService HOTSPOT		
Package	Speed	Data
Guest	Up to 1Mbps	Unlimited
Time	Validity	Price
Unlimited	Unlimited	0.00
Username		Password
g7jurz8		7rrjbf
Call: +6696 659 1415		

VRProService HOTSPOT		
Package	Speed	Data
Guest	Up to 1Mbps	Unlimited
Time	Validity	Price
Unlimited	Unlimited	0.00
Username		Password
gaiqku3		ikcr6k
Call: +6696 659 1415		

VRProService HOTSPOT		
Package	Speed	Data
Guest	Up to 1Mbps	Unlimited
Time	Validity	Price
Unlimited	Unlimited	0.00
Username		Password
gyyxbf		nk4u2k
Call: +6696 659 1415		

VRProService HOTSPOT		
Package	Speed	Data
Guest	Up to 1Mbps	Unlimited
Time	Validity	Price
Unlimited	Unlimited	0.00
Username		Password
gsdd5ks		gs5n3r
Call: +6696 659 1415		

# Login interface

## Hotspot Login web interface

User : admin  
password :

Please log on to use the internet hotspot service

login

password

HOTSPOT GATEWAY  
powered by MikroTik

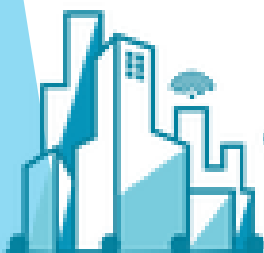
Powered by MikroTik RouterOS

# Active Status

- ▶ = Local
- ▶ R = Radius

	Server	User	Domain	Address	Uptime	Idle Time	Session Time ...	Rx Rate	Tx Rate	
R	hotspot1	w4890		192.168.10.14	05:14:46	00:00:01	15d 19:05:52	1816 bps	0 bps	
R	hotspot1	w3023		192.168.10.22	02:02:40	00:00:05	29d 21:57:20	0 bps	0 bps	
R	hotspot1	w9059		192.168.10.68	1d 01:53:22	00:13:40	20d 04:29:33	0 bps	0 bps	
R	hotspot1	w6759		192.168.10.79	01:54:49	00:00:21	20d 03:42:46	0 bps	0 bps	
R	hotspot1	w6759		192.168.10.80	15:02:59	00:00:02	20d 03:42:45	0 bps	0 bps	
R	hotspot1	w4056		192.168.10.125	04:29:49	00:00:01	23d 02:10:27	683.3 ...	24.2 k...	
R	hotspot1	w9620		192.168.10.126	01:14:54	00:00:00	15d 06:11:20	7.3 kbps	848.5 ...	
R	hotspot1	w9620		192.168.10.127	01:16:12	00:00:36	15d 06:11:20	0 bps	0 bps	

8 items



# Thanks for Listening



## *Contact us*

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