



Plug and play solution for managing lan users
with MikroTik RouterOS

Presented By Mohammad Javad Sabri

MikroTik MUM Yerevan October 10, 2017

About me



- Mohammad Javad Sabri
- MikroTik Certified Trainer
- MikroTik Academy Trainer
- MikroTik Certified Consultant
- Master of Science Computer engineering
- MTCNA, MTCWE, MTCTCE, MTCUME,MTCRE,MTCIPv6E
- **I Love MikroTik**

MikroTik Class



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Applications

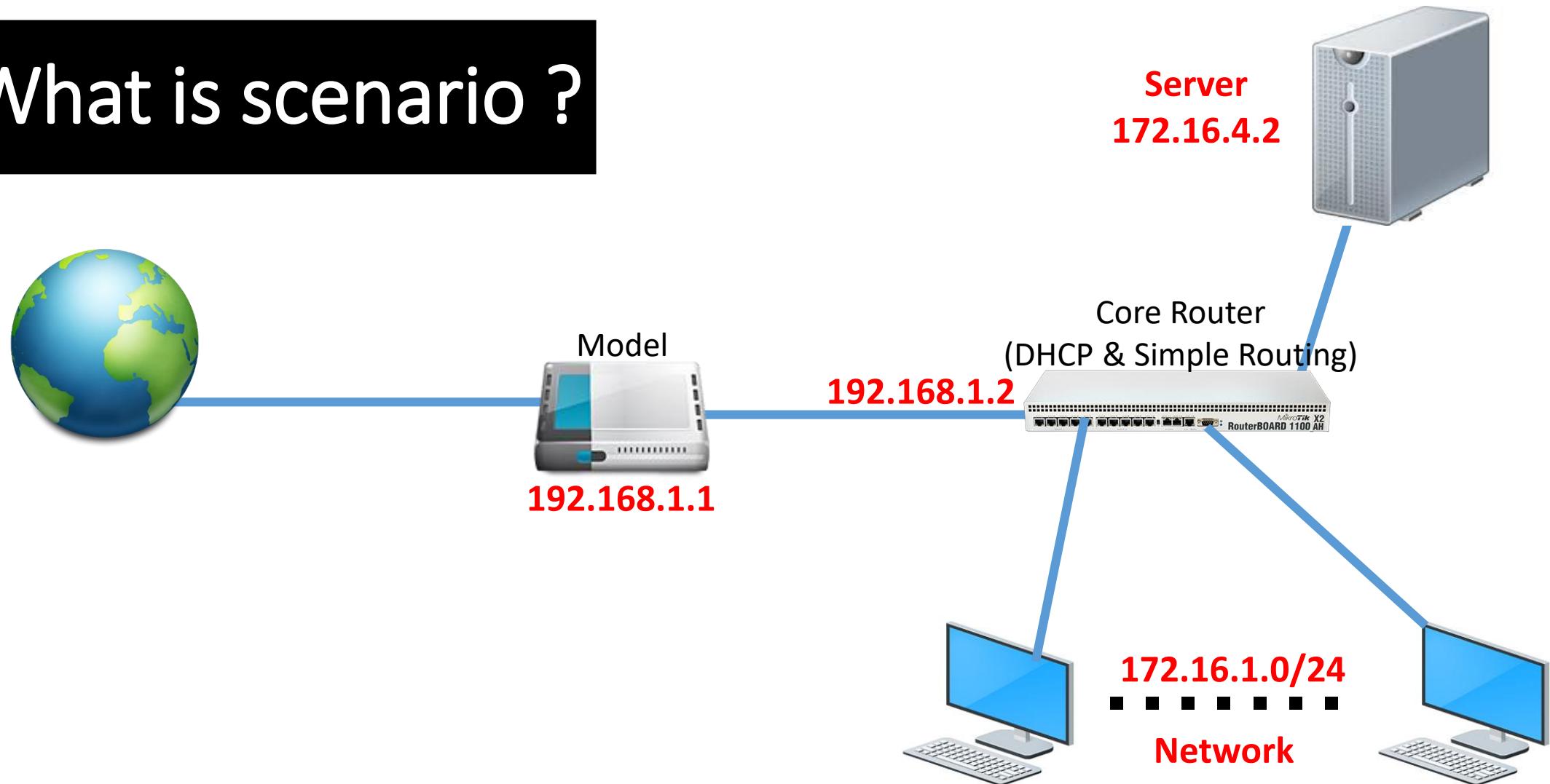


large Office



University

What is scenario ?



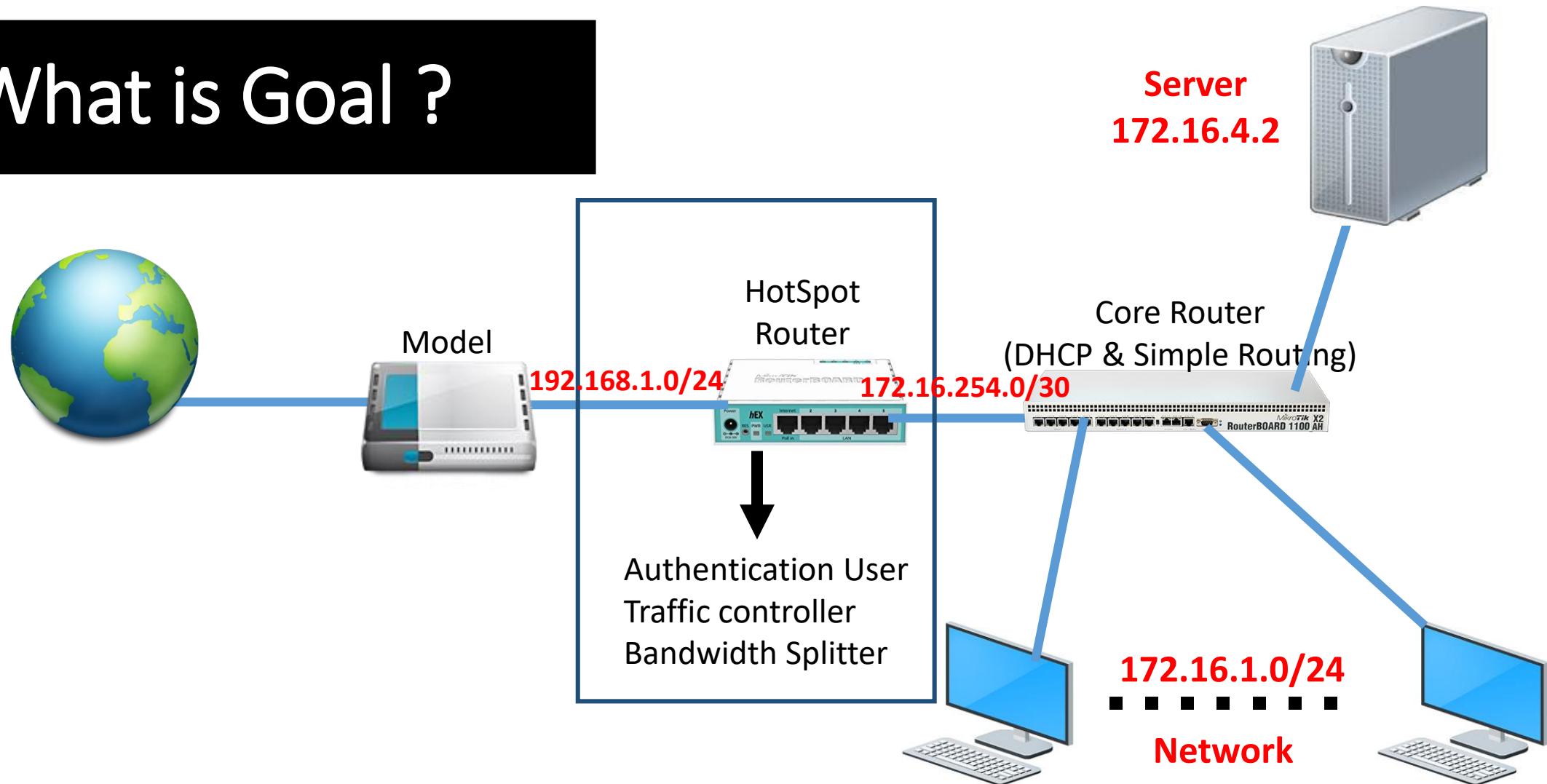


me

My Clients



What is Goal ?





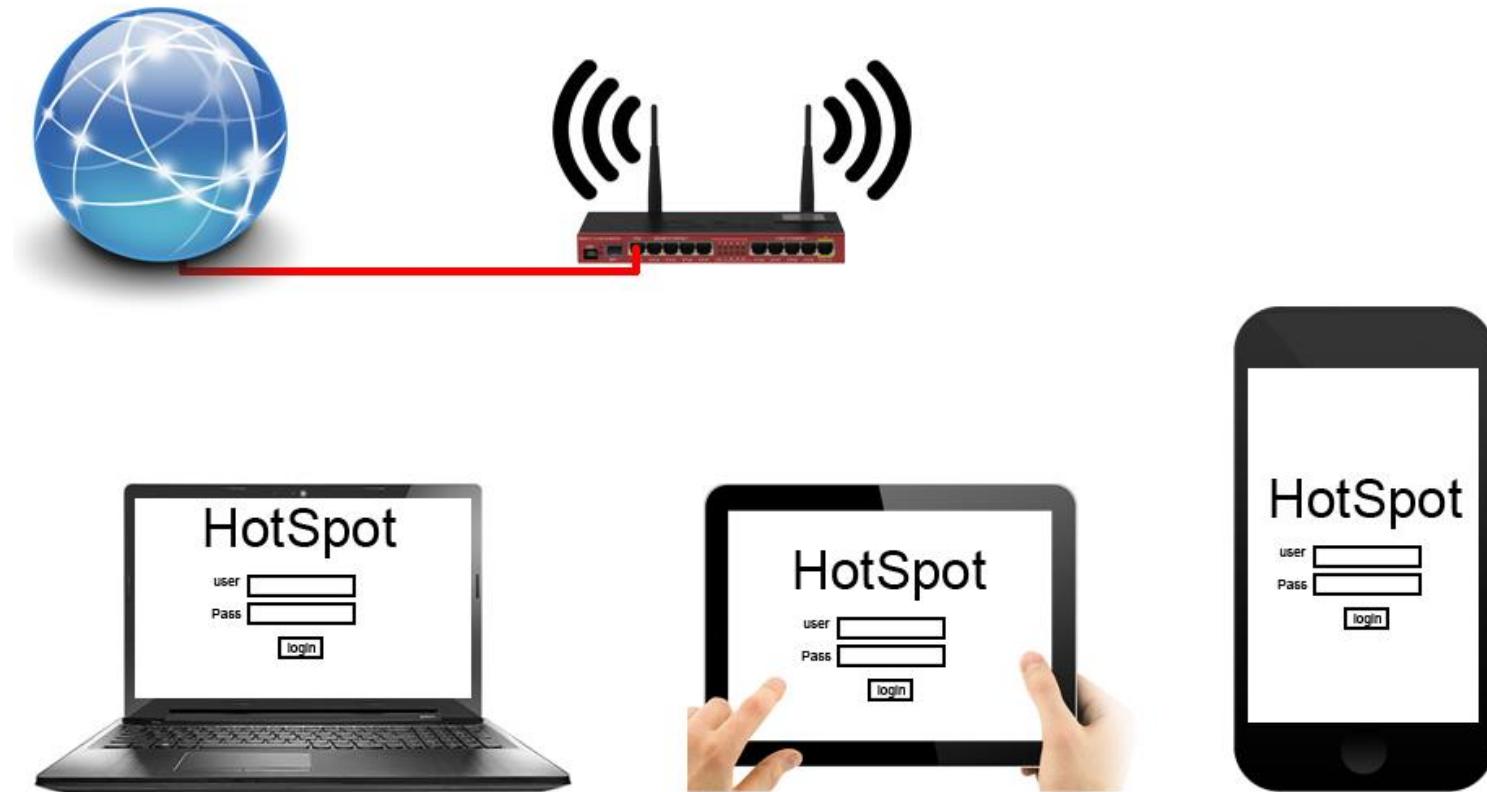
me

My Clients

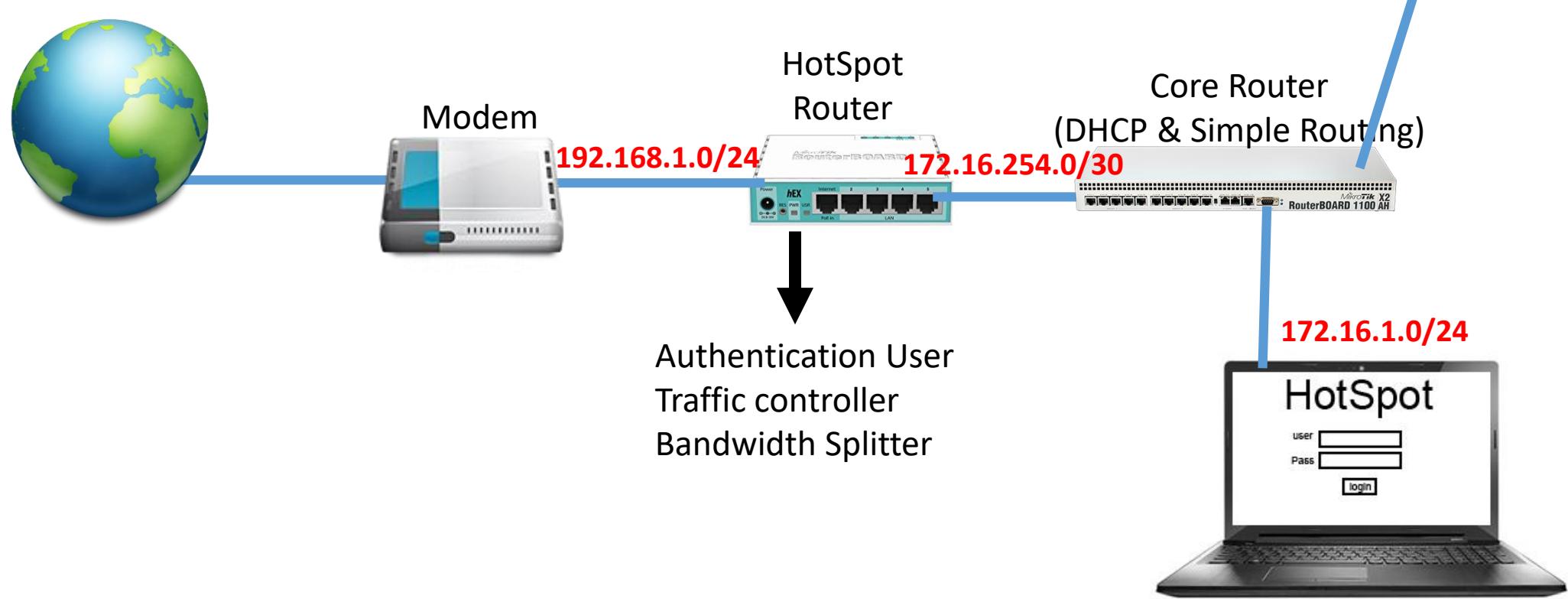


QuotesPics.net

What is HotSpot ?

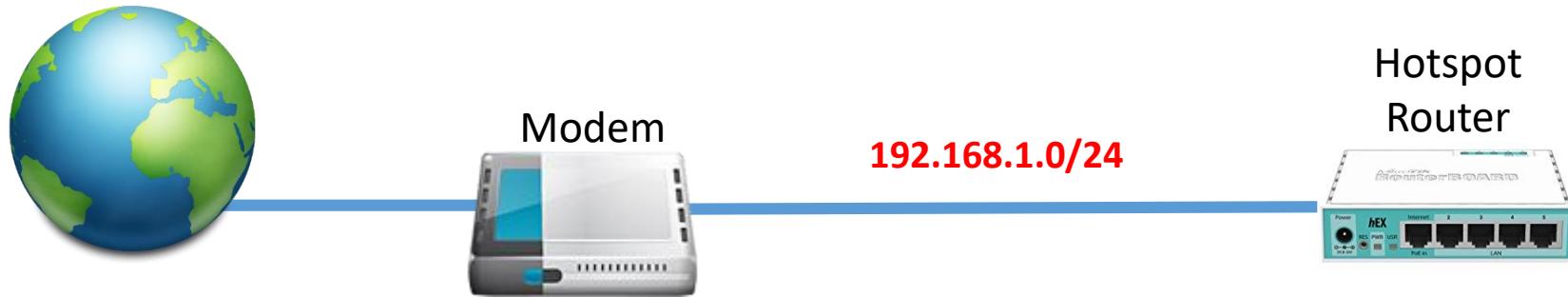


HotSpot for Wired Network

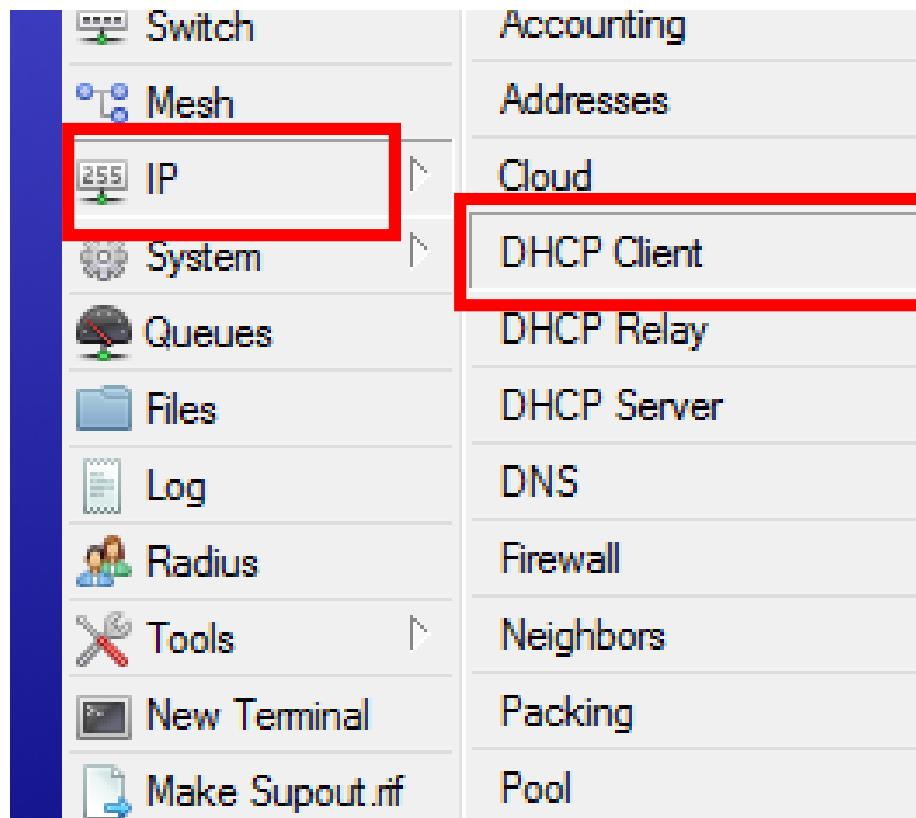


Adding Hotspot Router to Wired Network

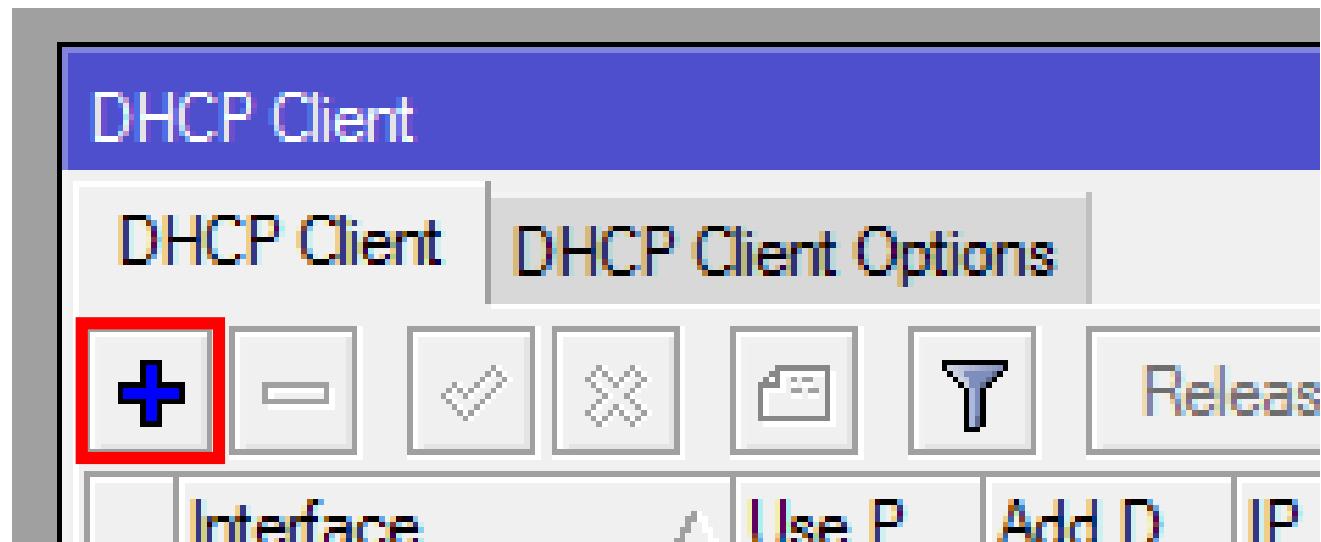
HotSpot Router To Modem



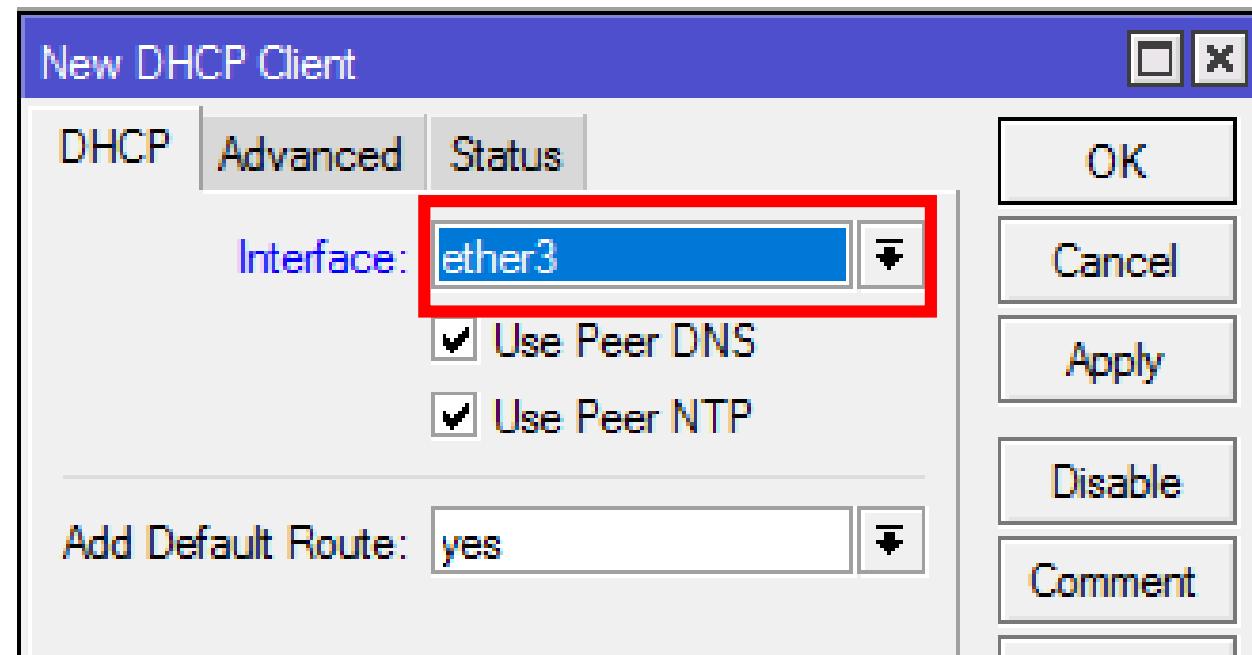
DHCP client



DHCP client

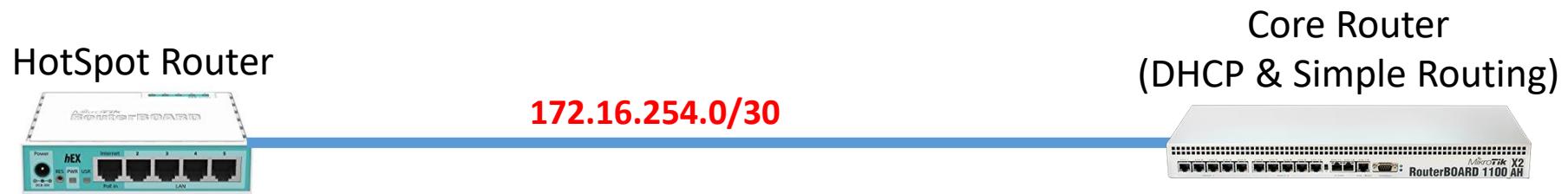


DHCP client



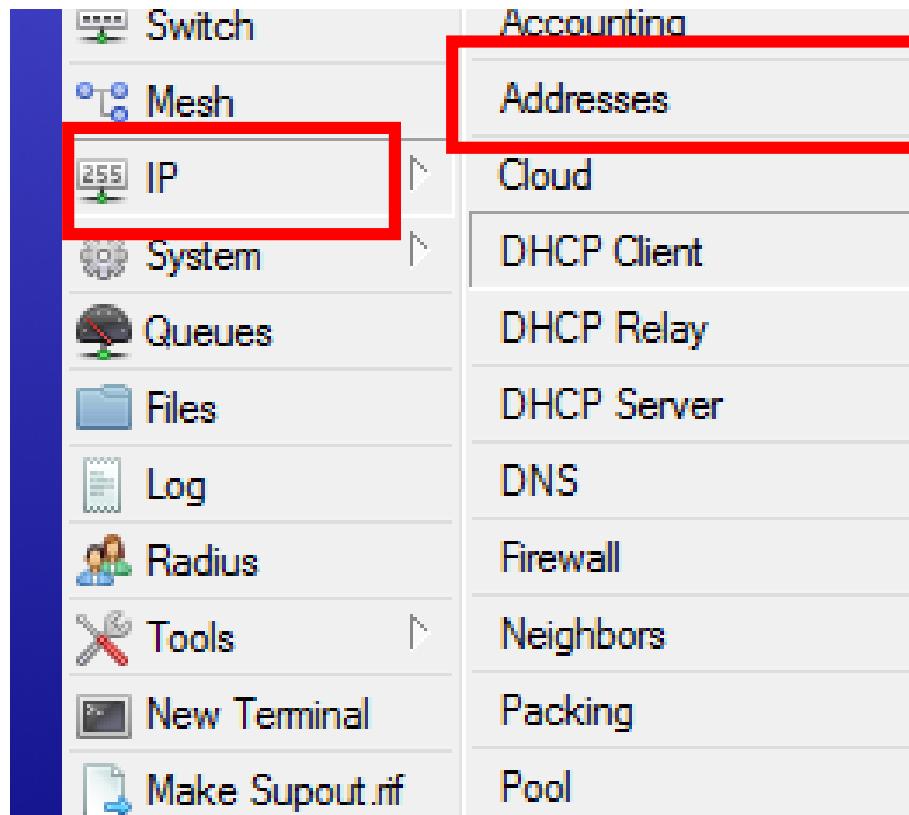
Select interface that is connected to modem

HotSpot Router To Core Router



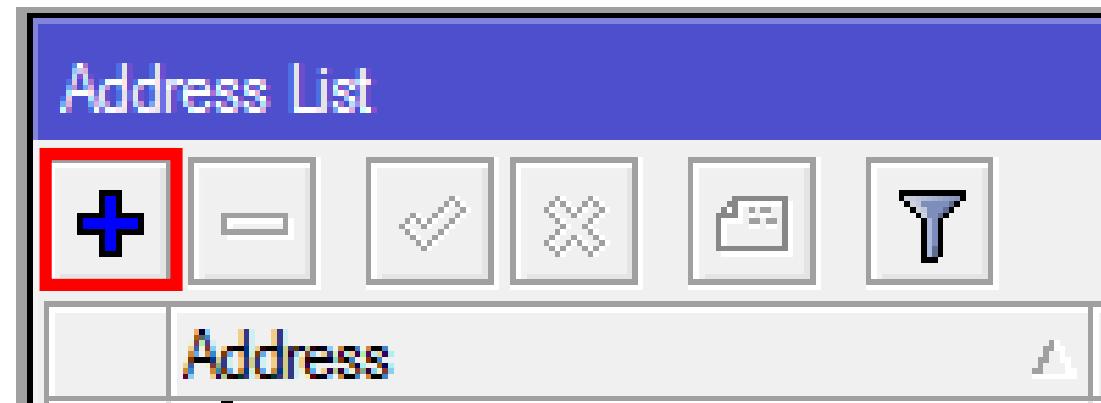
Set IP Address

Set IP on HotSpot Router



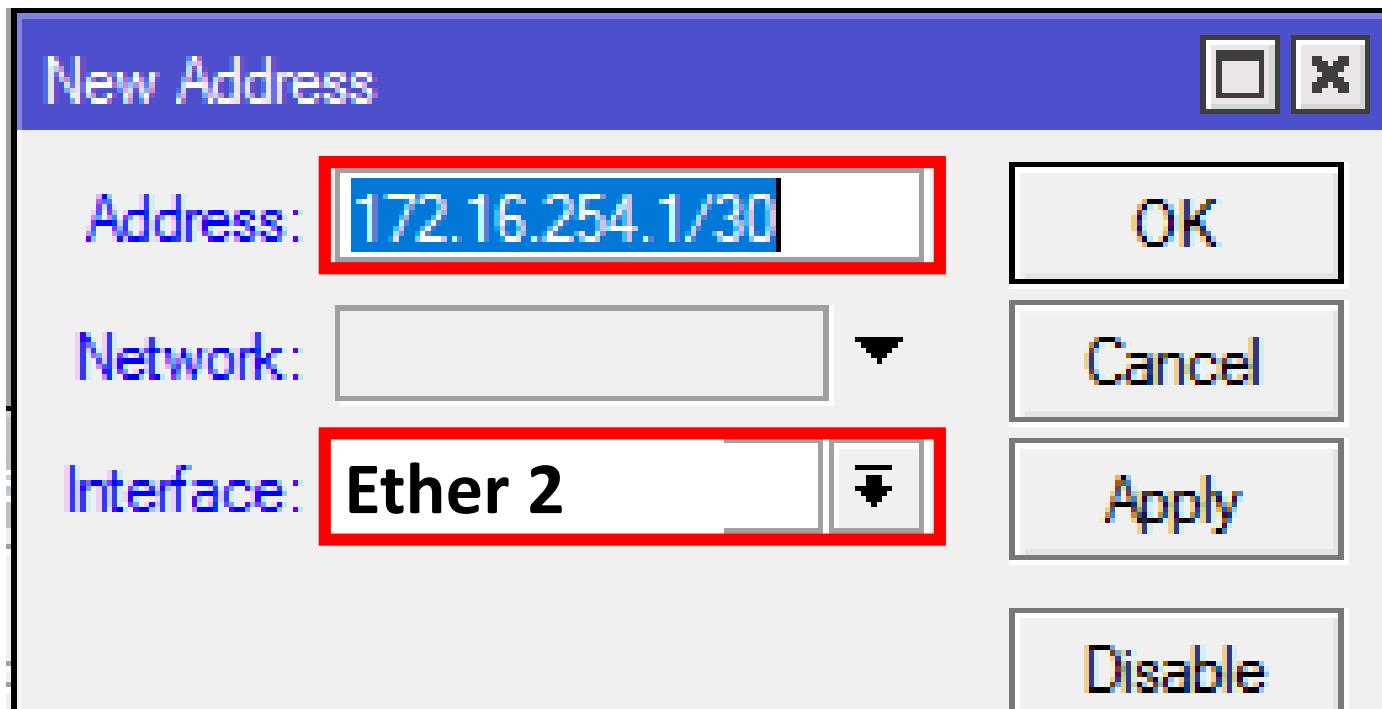
Set IP Address

Set IP on HotSpot Router



Set IP Address

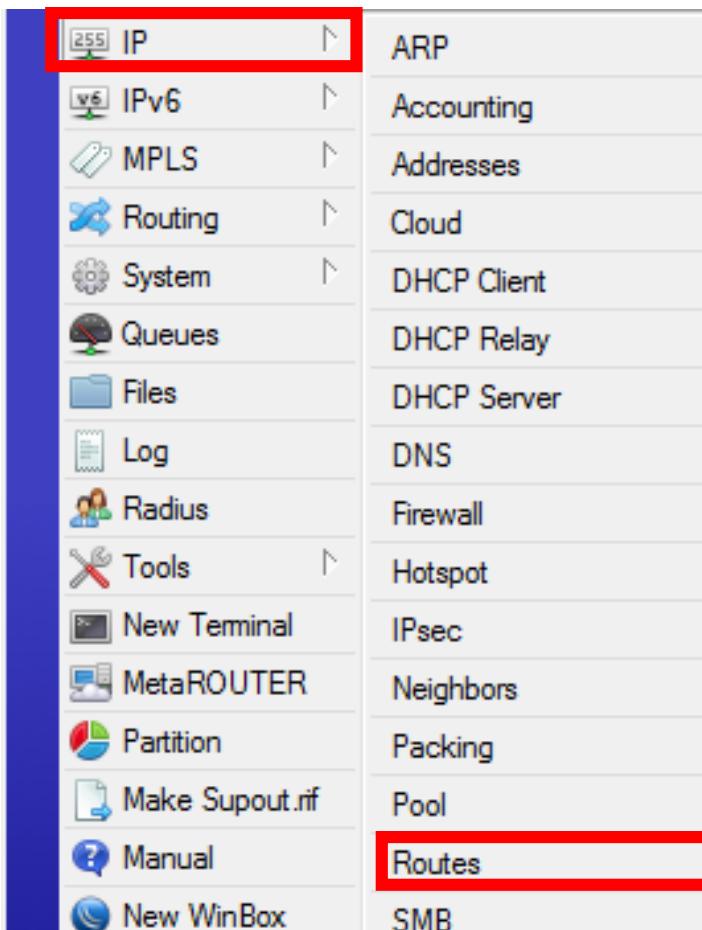
Set IP on HotSpot Router



Select interface that is connected to Core Router in Network

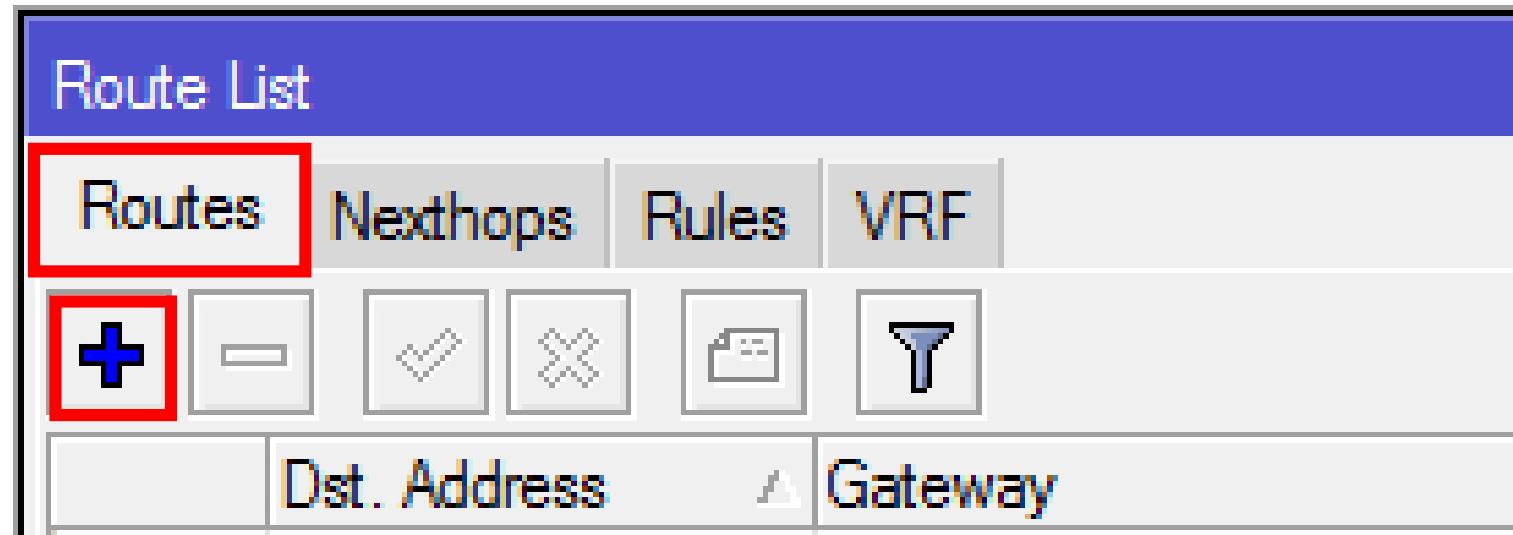
Set Static Route

Set static Route on HotSpot Router



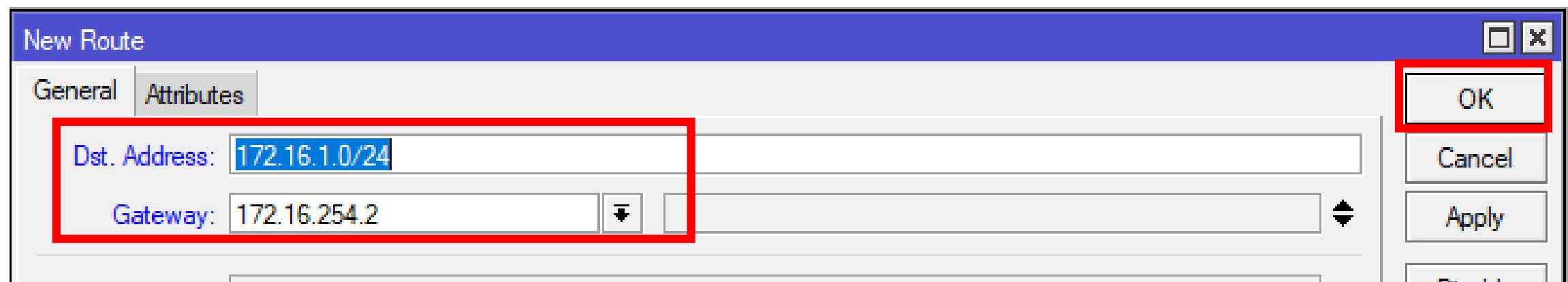
Set Static Route

Set static Route on HotSpot Router



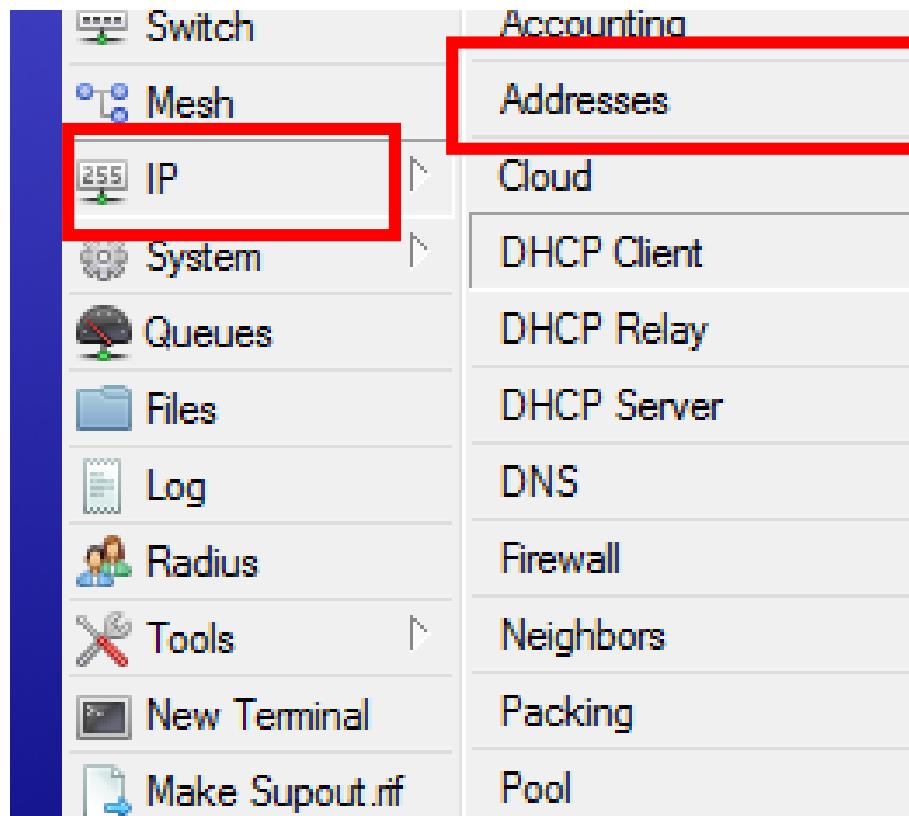
Set Static Route

Set static Route on HotSpot Router



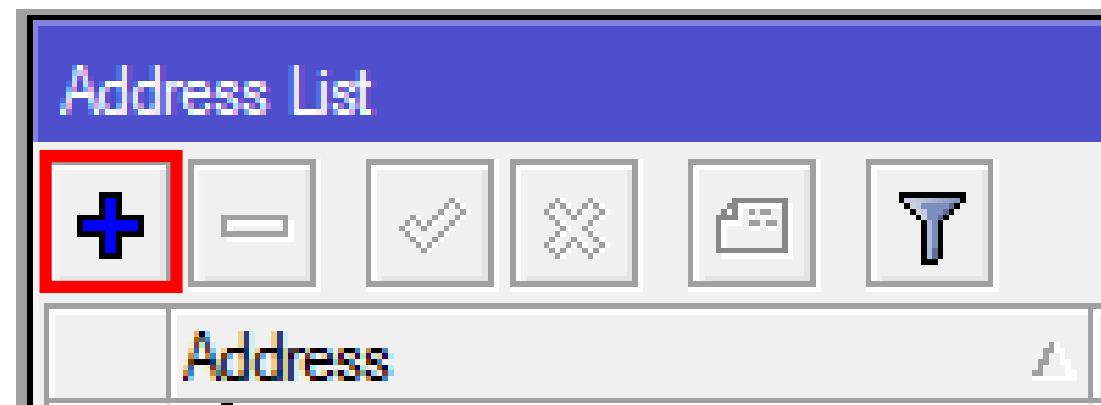
Set IP Address

Set IP on Core Router



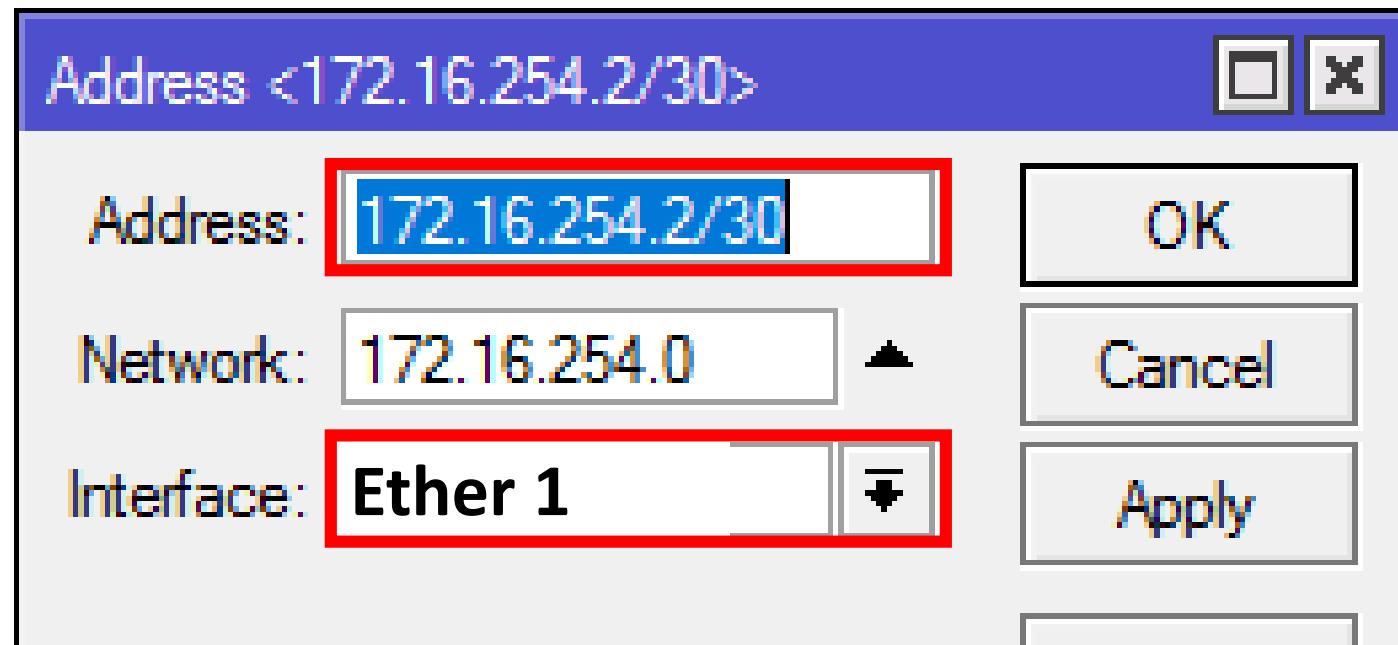
Set IP Address

Set IP on Core Router



Set IP Address

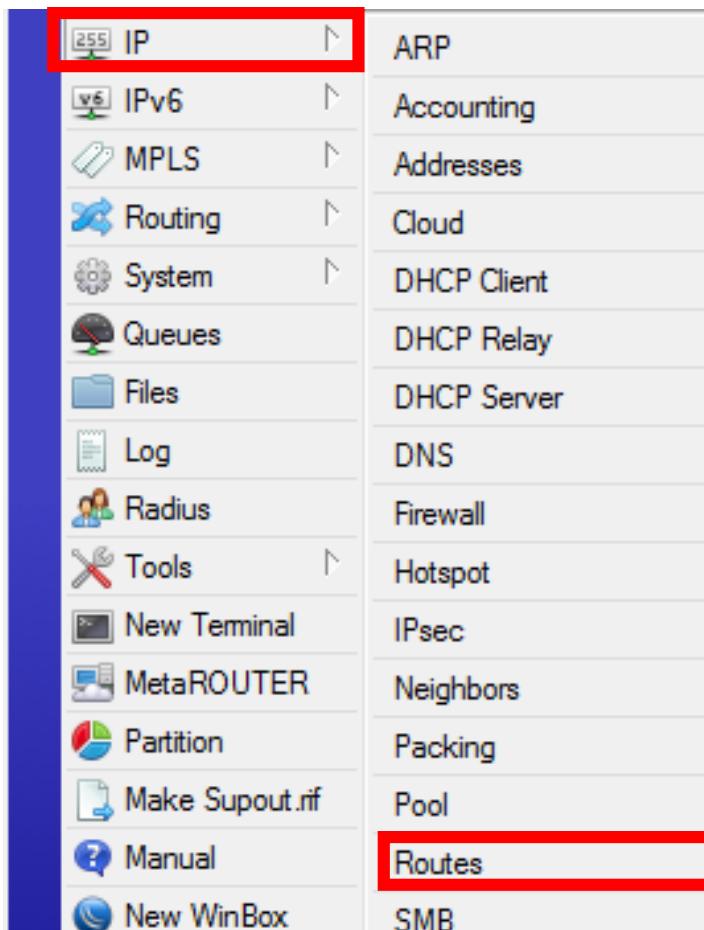
Set IP on Core Router



Select interface that is connected to HotSpot Router

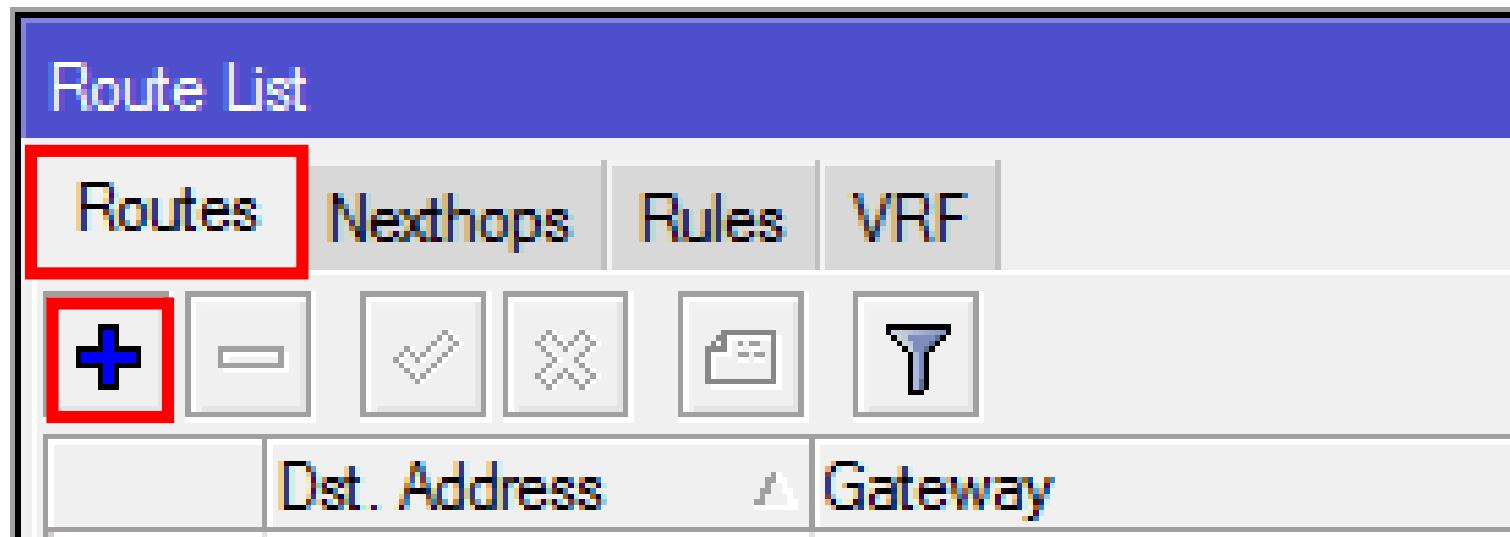
Set Default Route

Set default route on Core Router



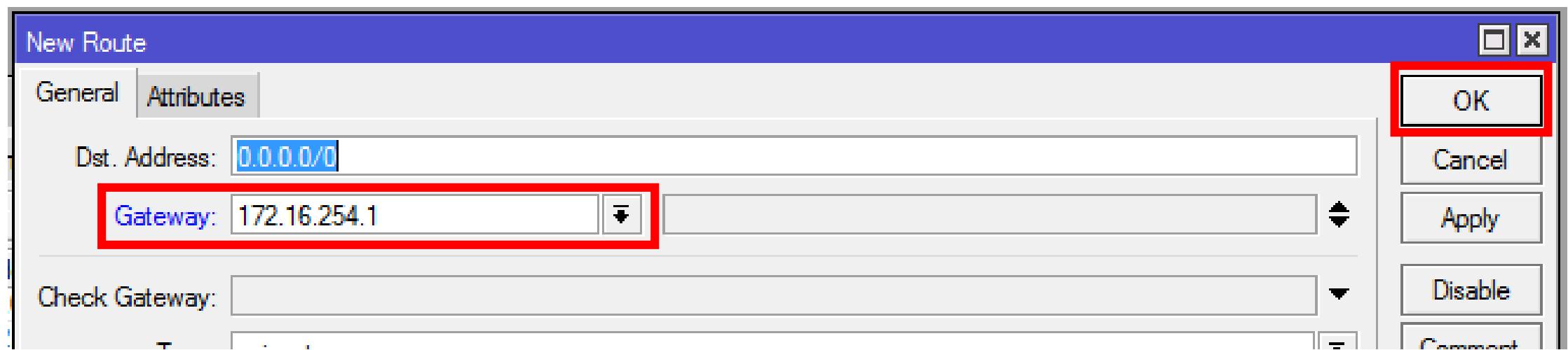
Set Default Route

Set default route on Core Router



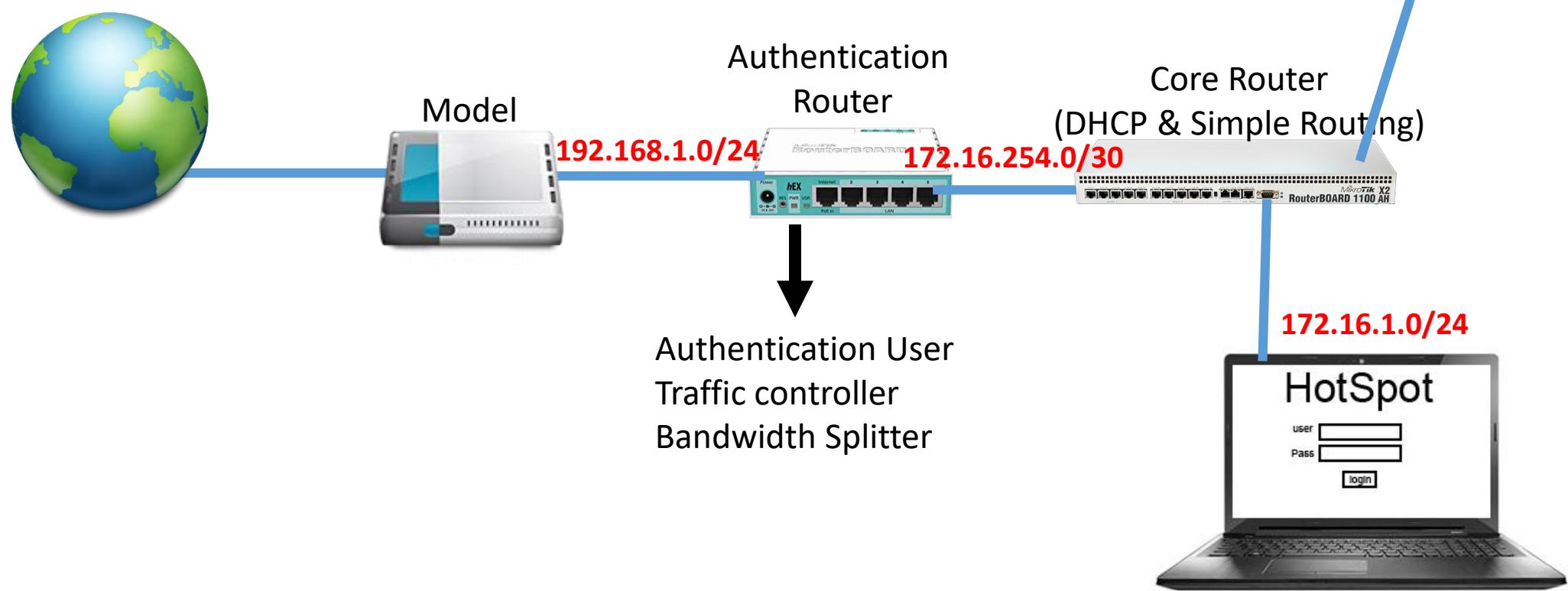
Set Default Route

Set default route on Core Router

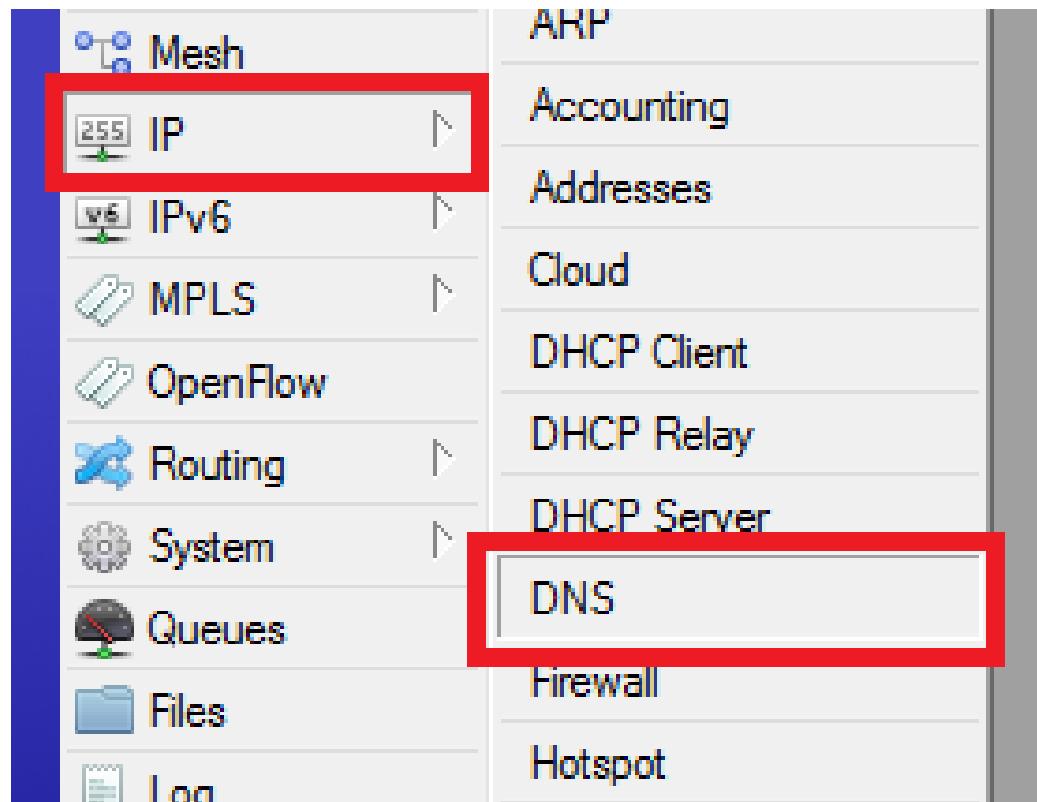


Getting start to Configuring Advanced Hotspot for Wired Network

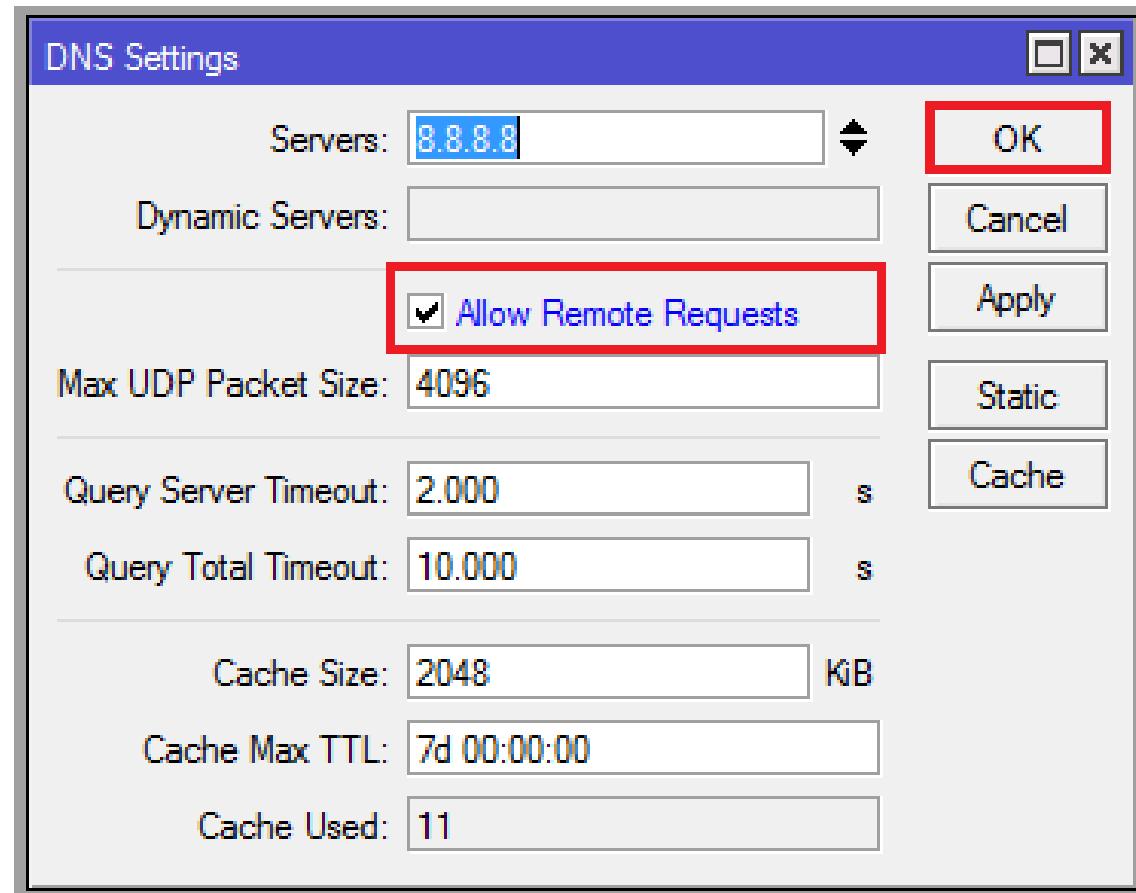
HotSpot for Wired Network



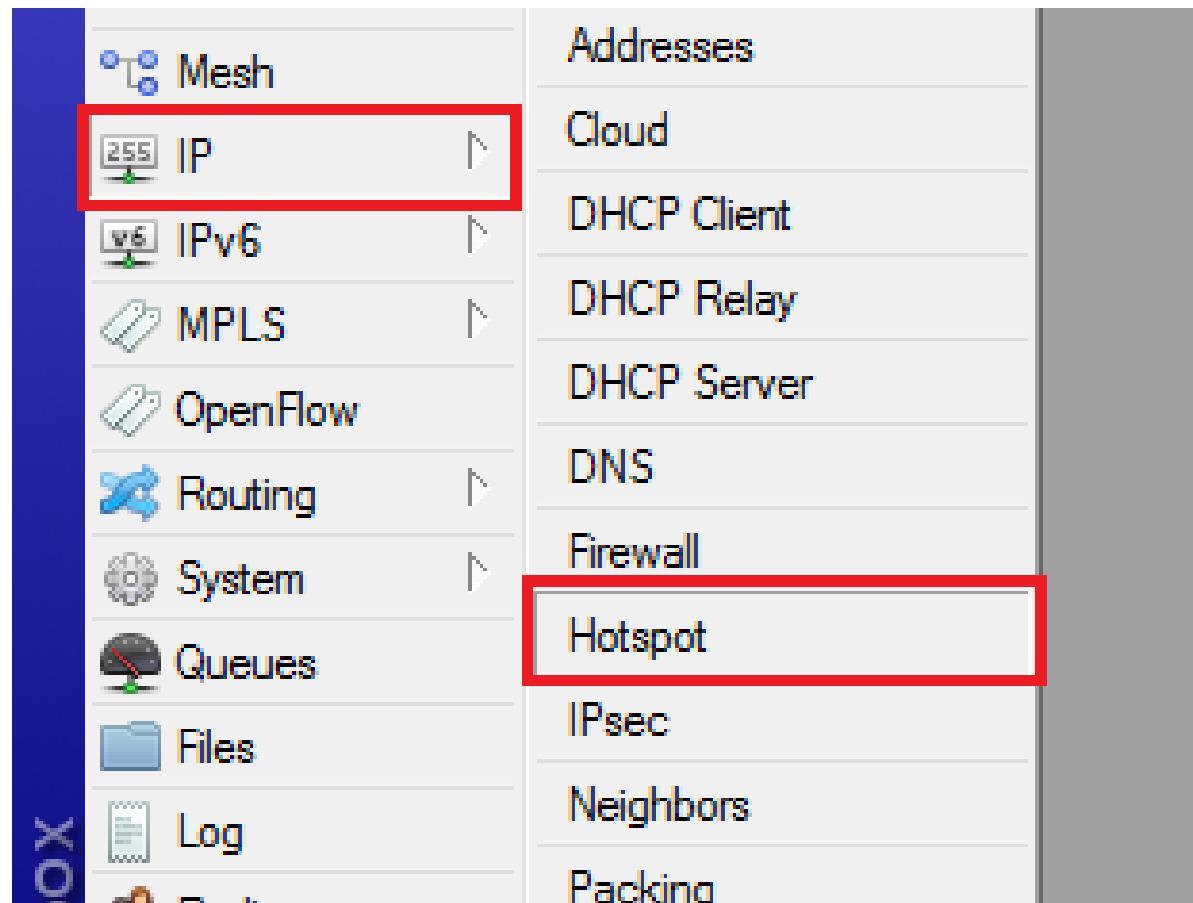
DNS



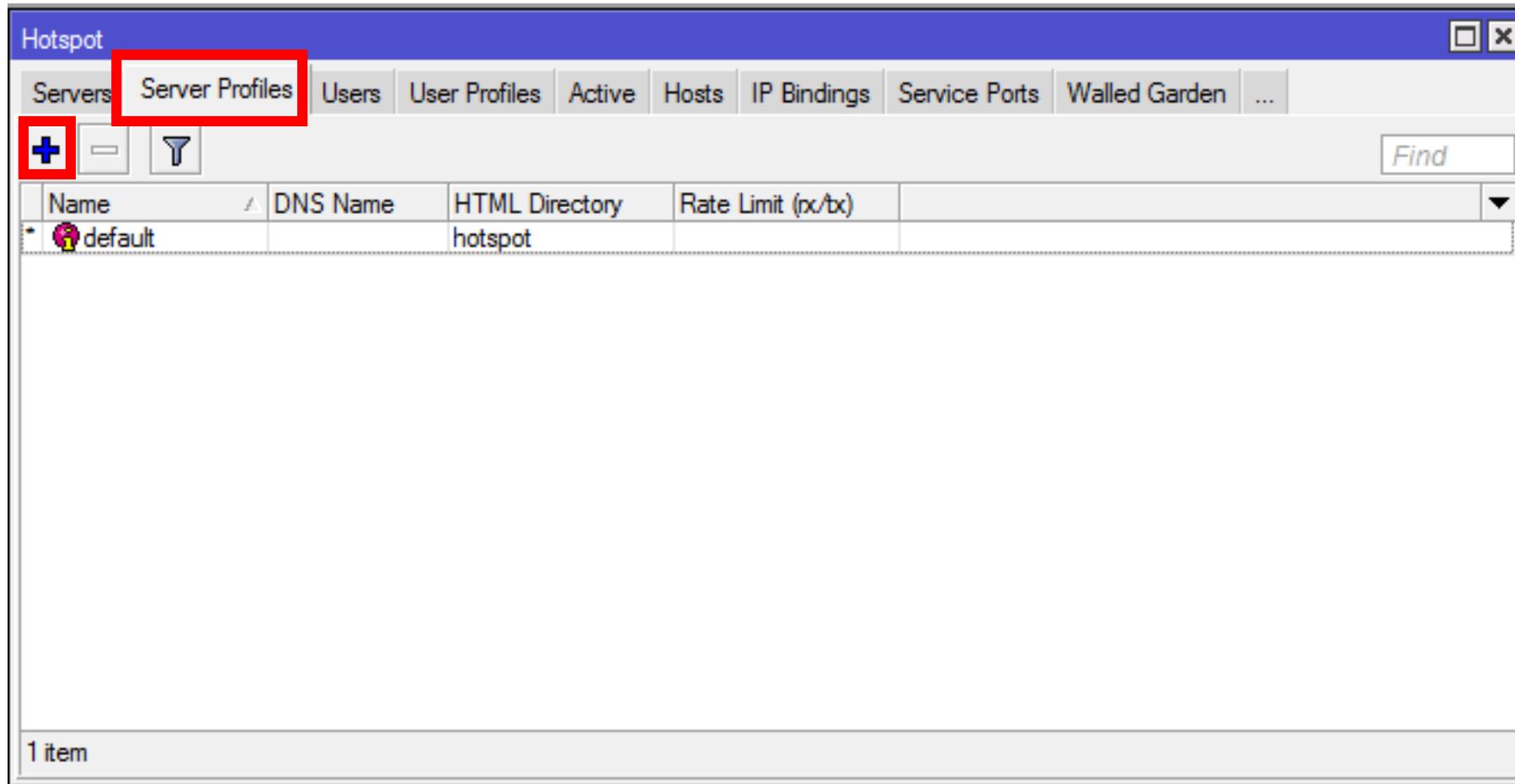
DNS



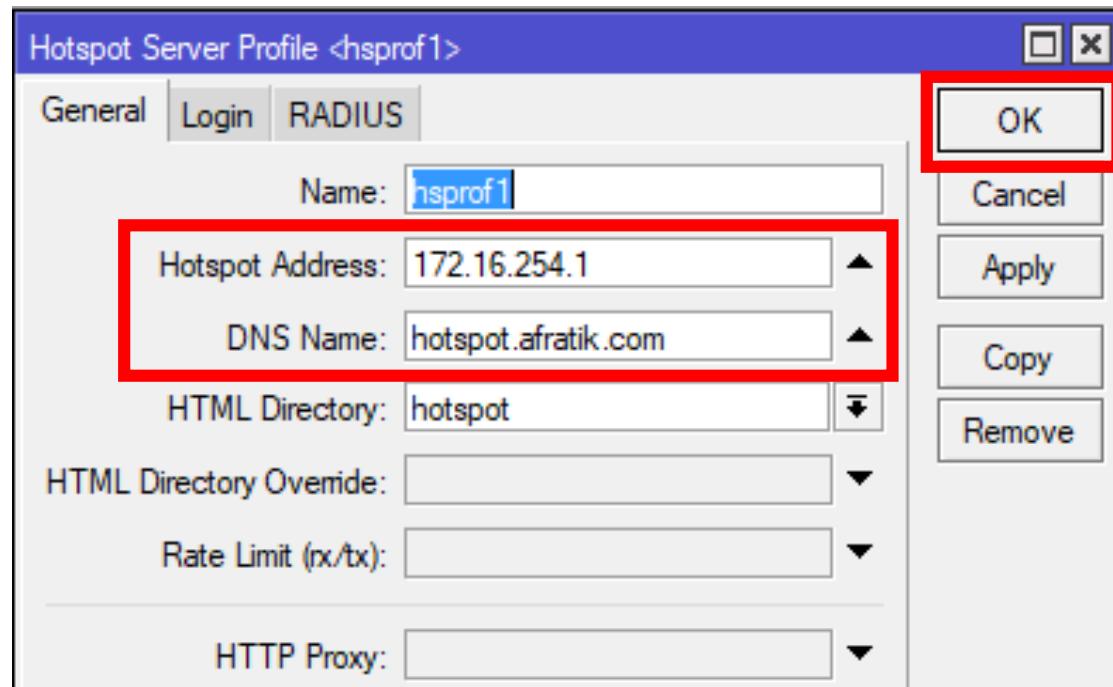
HotSpot setup



HotSpot setup



HotSpot setup

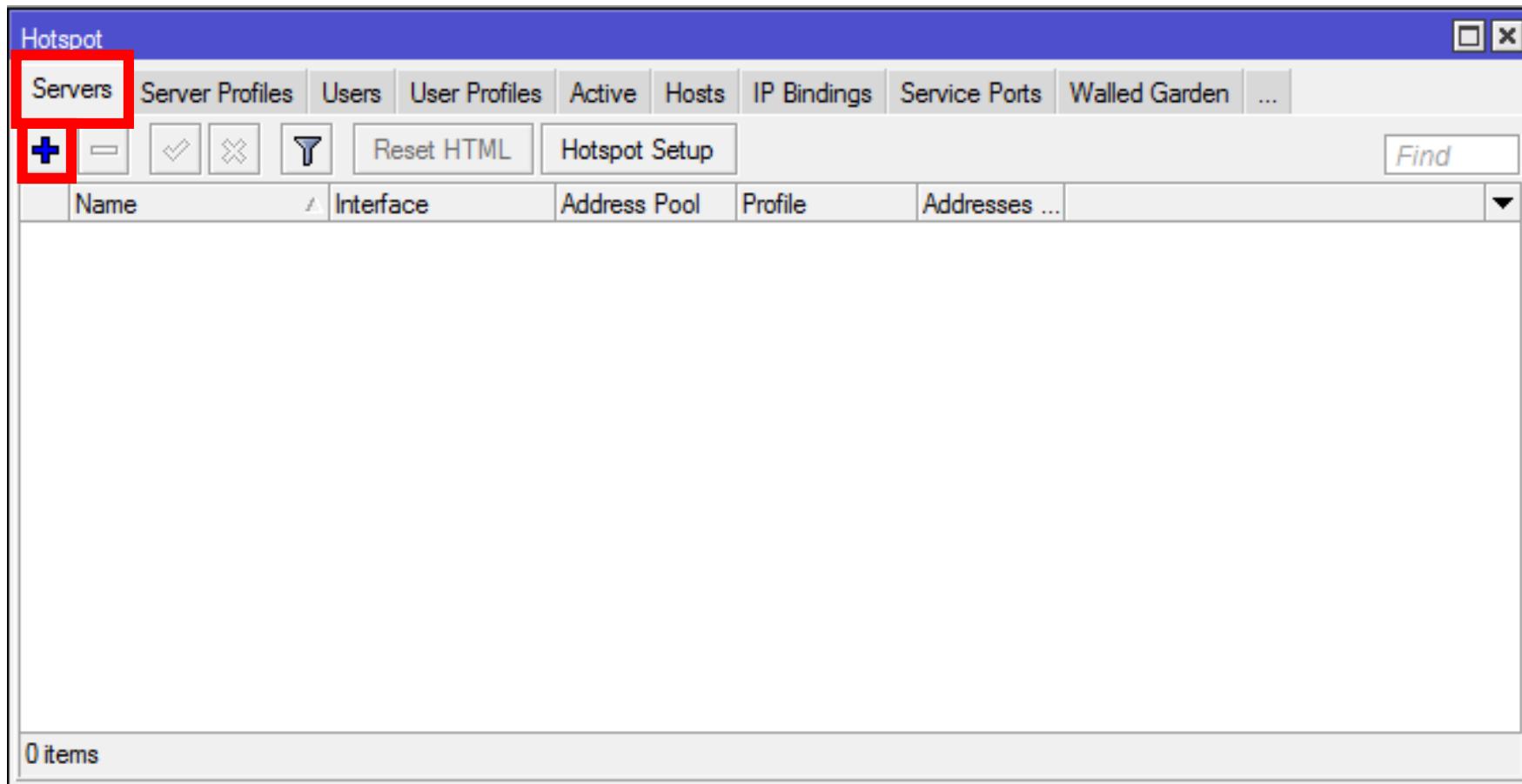


HotSpot setup

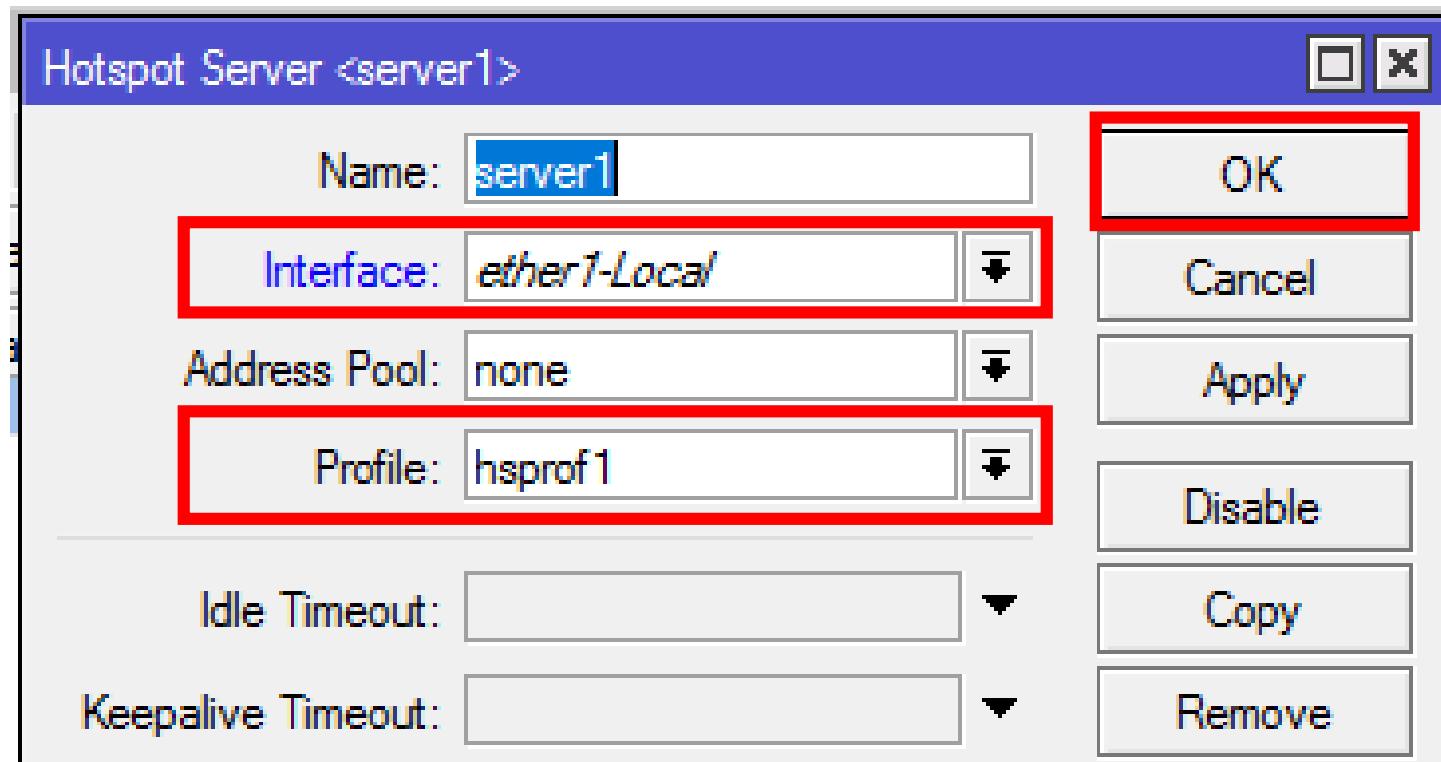
The screenshot shows the MikroTik Hotspot configuration window. The title bar reads "Hotspot". The top menu bar includes "Servers", "Server Profiles", "Users", "User Profiles", "Active", "Hosts", "IP Bindings", "Service Ports", "Walled Garden", "Walled Garden IP List", and "...". Below the menu is a toolbar with icons for adding (+), deleting (-), and filtering (funnel). A "Find" button is also present. The main area is a table with columns: Name, DNS Name, HTML Directory, and Rate Limit (pc/bx). It contains two rows: "default" (selected) and "hsprof1". The "hsprof1" row is highlighted with a red box.

Name	DNS Name	HTML Directory	Rate Limit (pc/bx)
default	hotspot	hotspot	
hsprof1	hotspot.MikroTikTC.com	hotspot	

HotSpot setup



HotSpot setup



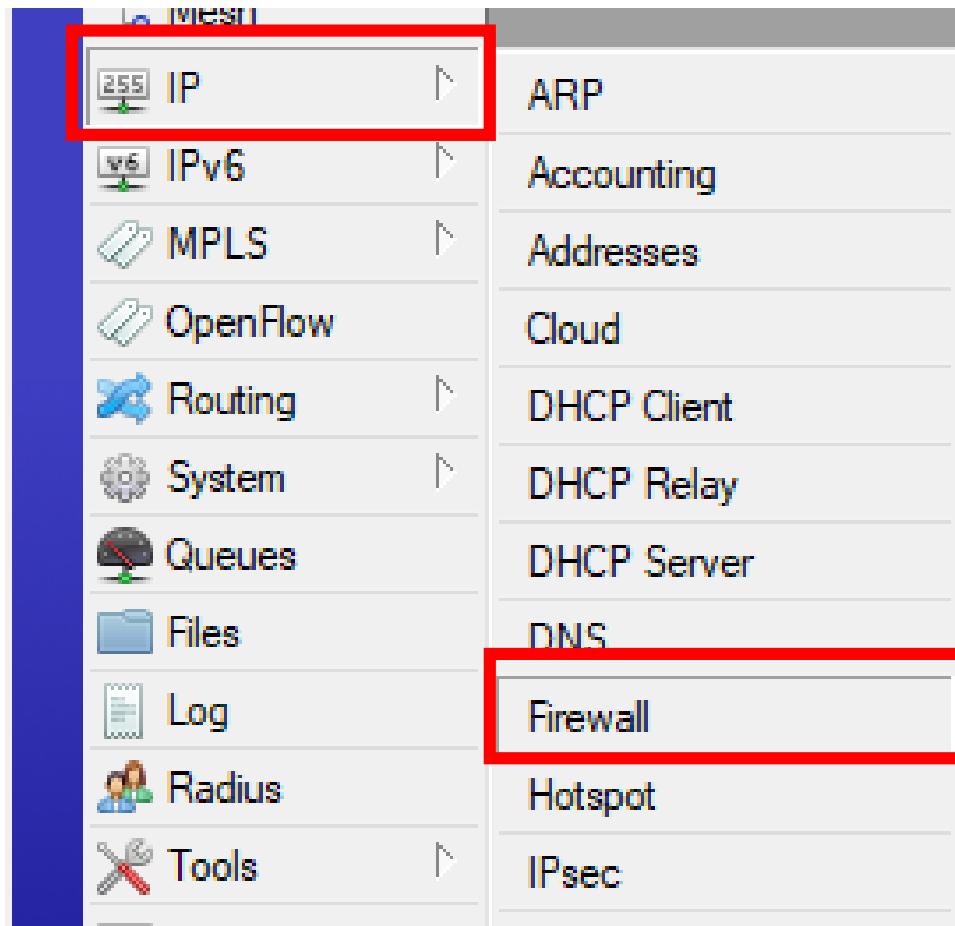
HotSpot setup

The screenshot shows the 'Hotspot' configuration window in Winbox. The 'Servers' tab is selected. A red box highlights the first row of the table, which contains the following data:

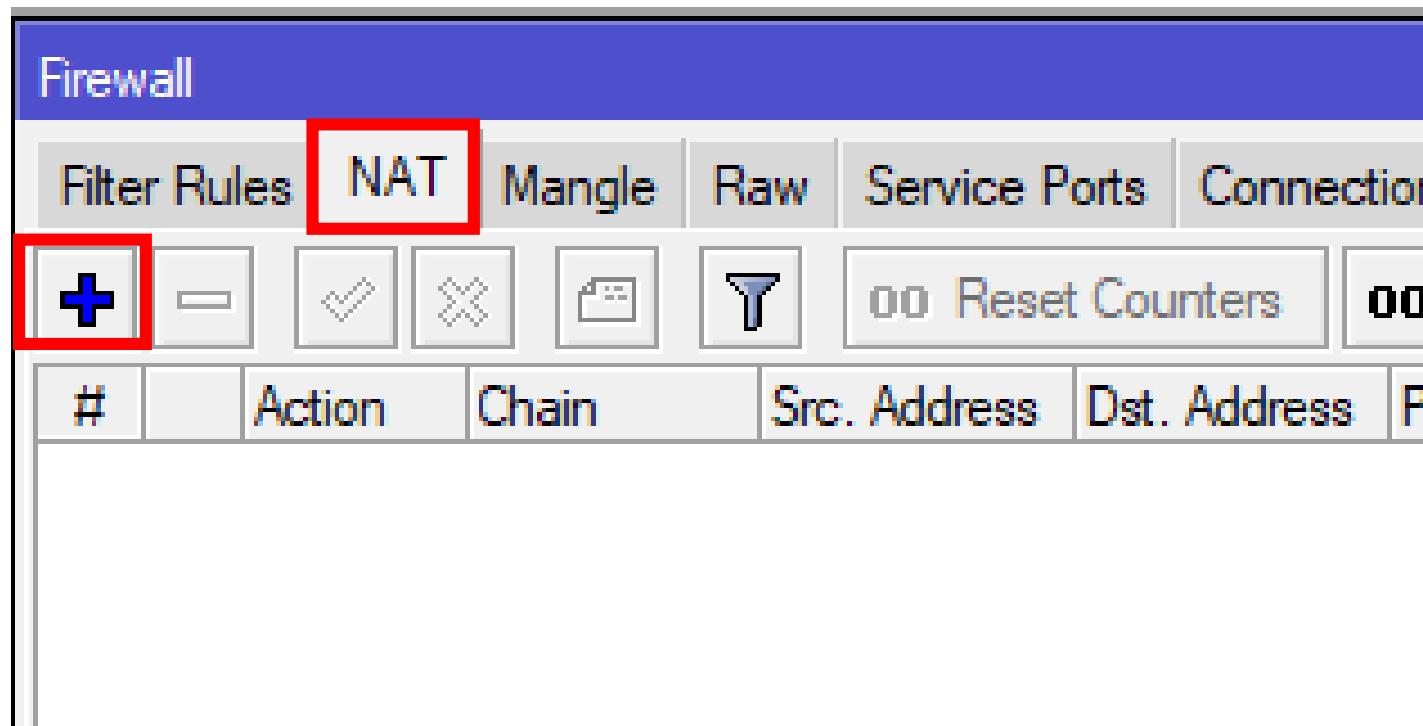
Name	Interface	Address Pool	Profile	Addresses ...
server1	ether1-Local	none	hsprof1	

Below the table are several buttons: a blue plus sign (+), a minus sign (-), a checkmark, a delete icon, a filter icon, 'Reset HTML', 'Hotspot Setup' (which is currently selected), and a 'Find' button.

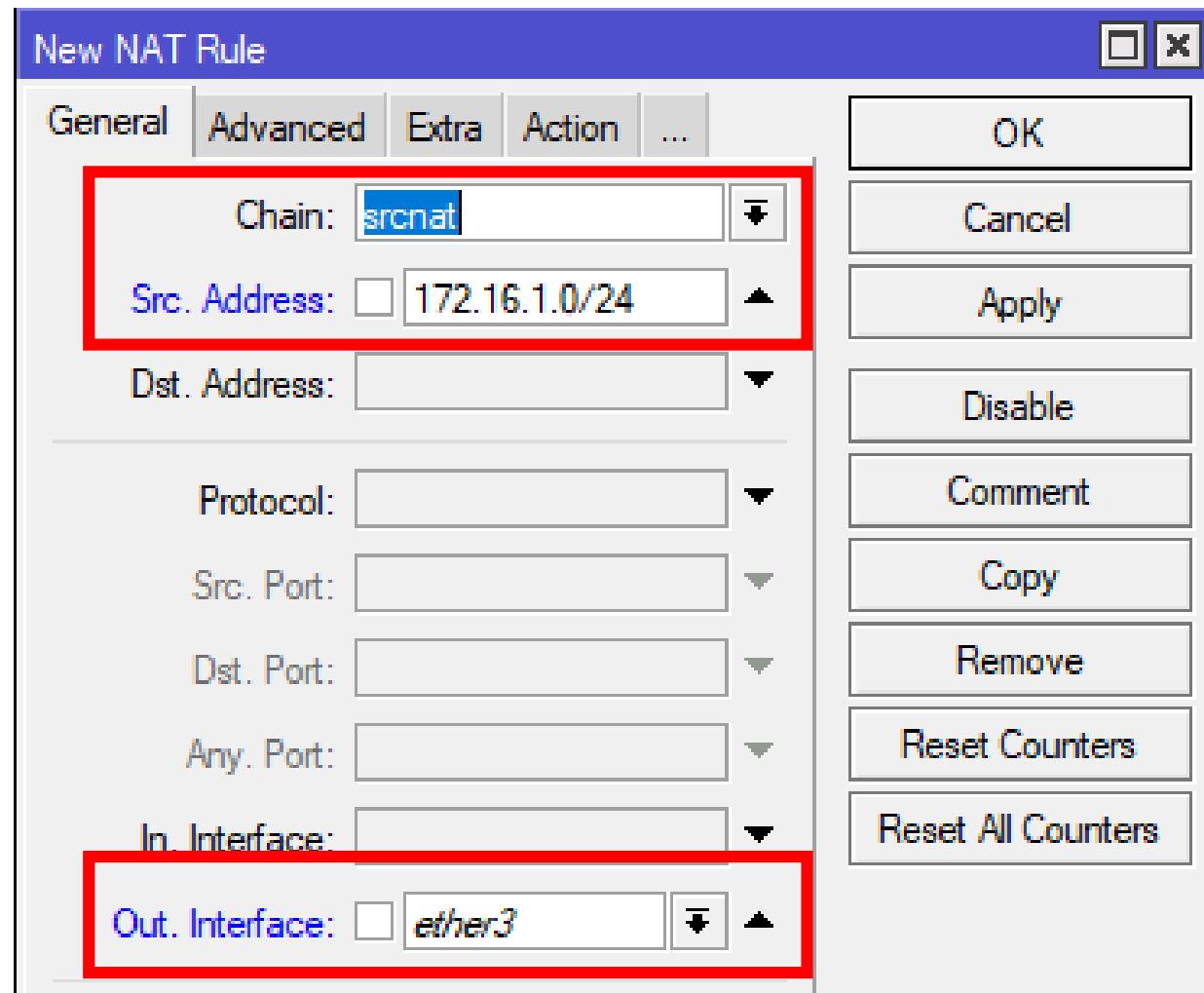
NAT



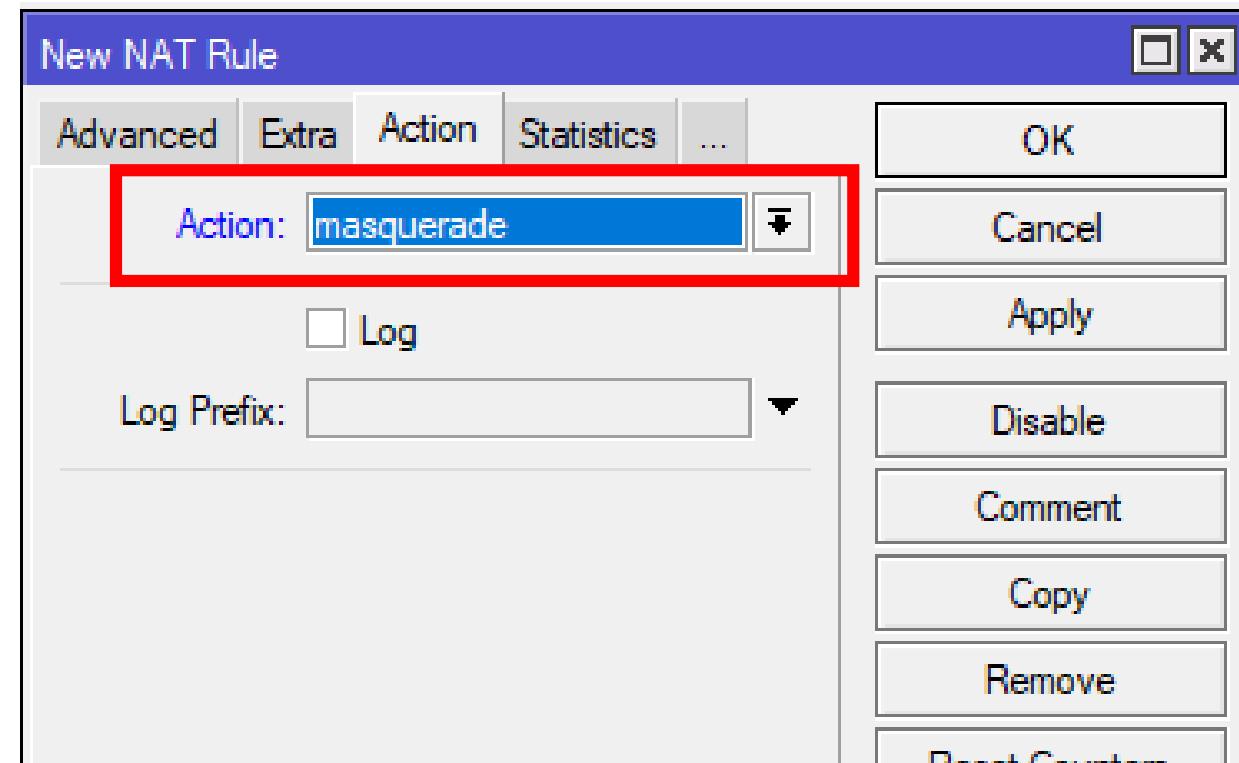
NAT



NAT



NAT



Login page

Please log on to use the internet hotspot service

login

password

HOTSPOT GATEWAY

powered by **MikroTik**

Powered by MikroTik RouterOS

Login page



Test Solution

Welcome User1!

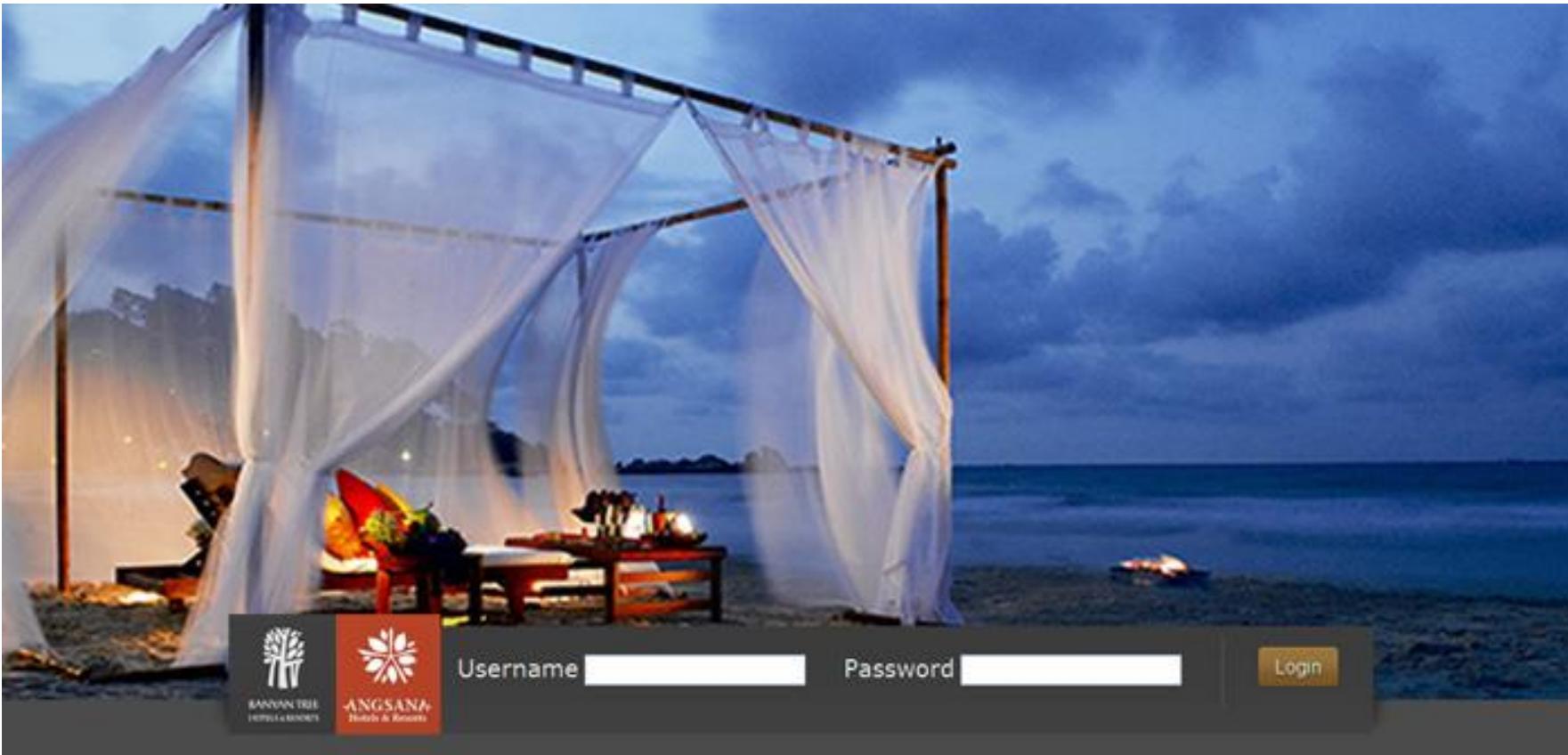
IP address:	10.5.50.254
bytes up/down:	310.4 KiB / 841.6 KiB
connected:	2m12s
status refresh:	1m

[log off](#)

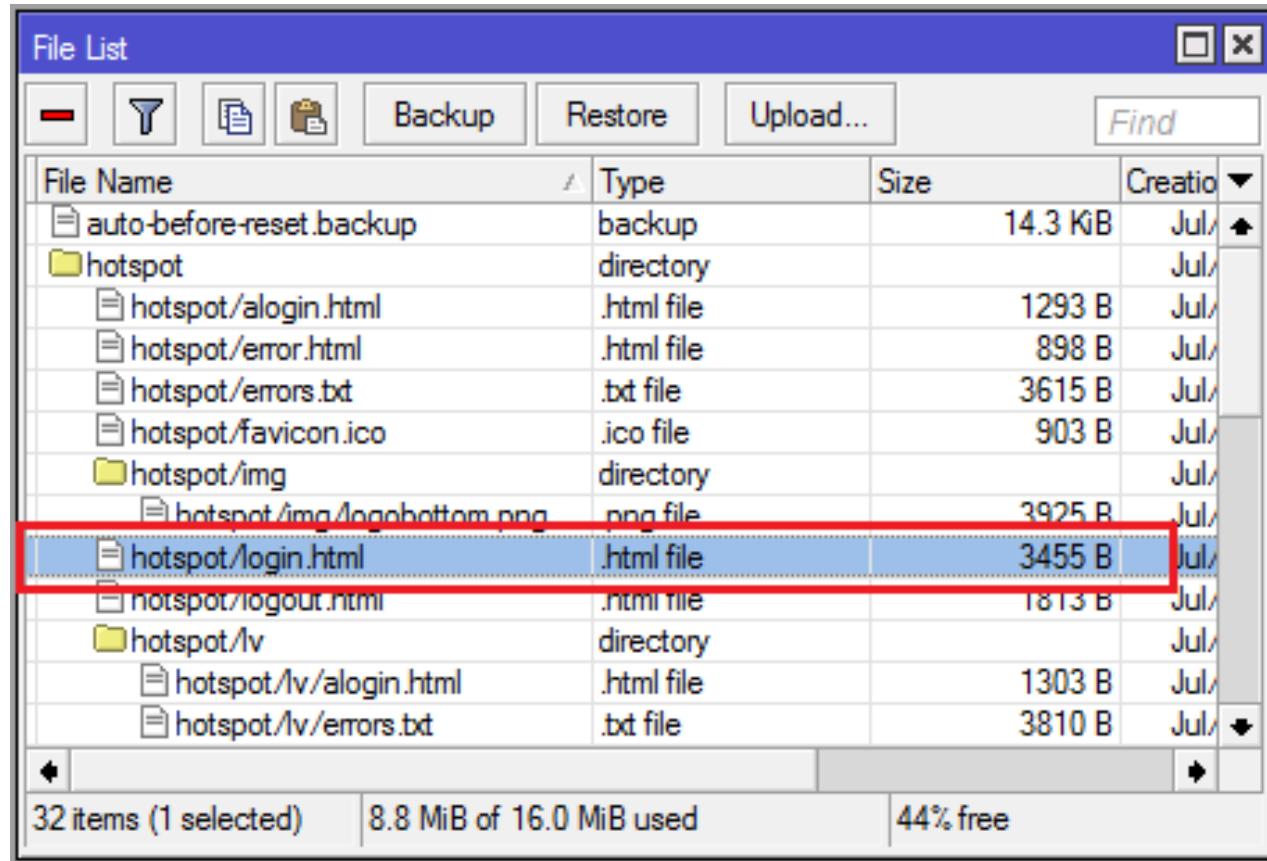
HotSpot setup

Hotspot											
	Server Profiles	Users	User Profiles	Active	Hosts	IP Bindings	Service Ports	Walled Garden	Walled Garden IP List	Cookies	...
	MAC Address	Address	To Address	Server	Idle Time	Pkt Rate	Tx Rate				
A D	1E:48:D8:C6:0B:46:E	172.16.1.254	172.16.1.254	server1	00:01:27	0 bps	1184 bps				
A D	1E:48:D8:C6:0B:46:E	172.16.1.253	172.16.1.253	server1	00:00:01	49.5 kb...	76.1 kb...				
P	1E:48:D8:C6:0B:46:E	172.16.254.2	172.16.254.2	server1	00:00:00	0 bps	0 bps				

Customize page



Customize page



Accounting

- User manager
 - Full power accounting
 - It is free
 - You don't need to another servers

Accounting

MikroTik
Mikrotik User Manager

Add Edit Generate

<input checked="" type="checkbox"/>	Username	Till time	Total time left	Actual profile
.				

Per page [20] ▾

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

[Refer to my presentation in MikroTik MUM Dubai 2016](#)



References

1. [http://wiki.mikrotik.com/wiki/Manual:User Manager](http://wiki.mikrotik.com/wiki/Manual:User_Manager)
2. <http://wiki.mikrotik.com/wiki/Manual:IP/Hotspot>
3. [http://wiki.mikrotik.com/wiki/User Manager/Hotspot Example](http://wiki.mikrotik.com/wiki/User_Manager/Hotspot_Example)
4. [http://wiki.mikrotik.com/wiki/Manual:RADIUS Client](http://wiki.mikrotik.com/wiki/Manual:RADIUS_Client)
5. [http://wiki.mikrotik.com/wiki/User Manager/Users](http://wiki.mikrotik.com/wiki/User_Manager/Users)
6. [http://wiki.mikrotik.com/wiki/User Manager/Profiles](http://wiki.mikrotik.com/wiki/User_Manager/Profiles)
7. [http://wiki.mikrotik.com/wiki/Manual:Customizing Hotspot](http://wiki.mikrotik.com/wiki/Manual:Customizing_Hotspot)

Thank You