

The Solution for Managing Wireless Users with MikroTik RouterOS

Presented By Mohammad Javad Sabri

About me



- Mr. Mohammad Javad Sabri
- Master of Science Computer engineering
- MikroTik Certified Consultant
- MTCNA, MTCWE, MTCTCE, MTCUME
- www.mjsabri.com
- info@mjsabri.com
- I Love MikroTik





Table of content

- Applications
- What is HotSpot ?
- What is User Manager ?
- Getting start to Configuration Hotspot
- Configuration in User Manager
- Connect To Wireless network and test Solution



Applications





Hotel



University













What is User Manager ?

Mikro Tik	Add Ed	lit Generate			
Mikrotik User Manager					9
Routers		∇Username	∇ Till time	∇ Actual profile	
Users					Per page [20] \vee
Sessions					
Customers					
Payments					
Profiles					
Settings					
Penorte					
Advanced search					
Maintananaa					
Maintenance					
Logout					



Getting start to Configuration Hotspot















DNS Settings			
Servers:	8.8.8.8	ŧ	ОК
Dynamic Servers:			Cancel
	Allow Remote Requests		Apply
Max UDP Packet Size:	4096		Static
Query Server Timeout:	2.000	s	Cache
Query Total Timeout:	10.000	s	
Cache Size:	2048	КiВ	
Cache Max TTL:	7d 00:00:00		
Cache Used:	11		



MikroTik







Hotspot										
Servers	Server Profiles	Users	User Profiles	Active	Hosts	IP Bindings	Service Ports	Walled Garden	Walled Garden IP L	List
+	1 × × 1	R	eset HTML	Hotspot	Setup				Fir	nd
Name	e i	∆ Interfa	асе	Address	Pool	Profile	Addresses			





























Hotspot Setup		X
Select SMTP server		
IP Address of SMTP Server:	0.0.0	
Back	Next Canc	el





Hotspot Setup		×
Setup DNS configuration		
DNS Servers: 8.8.8.8		¢
Back	Next Cance	4





Hotspot Setup
DNS name of local hotspot server
DNS Name: mikrotik.hotspot
Back Next Cancel





Hotspot Setup		□ ×						
Create local HotSpot user								
Name of Local HotSpot User: Password for the User: a								
Back Next Cancel								







Hotspot Setup

Setup has completed successfully









Please log on to use the internet hotspot service

login password OK
HOTSPOT GATEWAY

Powered by MikroTik RouterOS





Customize page







Customize page

MikroTik

File List			
🗕 🍸 🗈 🖹 Backup F	Restore Upload	. /	Find
File Name /	Туре	Size	Creatio 🔻
🖹 auto-before-reset.backup	backup	14.3 KiB	Jul/ 🛧
hotspot	directory		Jul/
hotspot/alogin.html	.html file	1293 B	Jul/
hotspot/error.html	.html file	898 B	Jul/
hotspot/errors.txt	.txt file	3615 B	Jul/
hotspot/favicon.ico	.ico file	903 B	Jul/
hotspot/img	directory		Jul/
botspot/img/logobottom.png	png file	3925 B	Jul/
🖹 hotspot/login.html	.html file	3455 B	Jul/
notspot/logout.ntml	.ntmi tile	1813 B	Jul/
hotspot/lv	directory		Jul/
⊨ hotspot/lv/alogin.html	.html file	1303 B	Jul/
hotspot/lv/errors.txt	.txt file	3810 B	Jul/ 🔸
•			+
32 items (1 selected) 8.8 MiB of 16.0	MiB used	44% free	









255 IP	Þ	Cloud	Hotspot						
र्षु IPv6	Þ	DHCP Client	Servers	Server Profile	s Users	User Profiles	Active	Hosts	IP Bindings
Ø MPLS		DHCP Relay	4 -	7					
OpenFlow		DNIC	Neres		NIC Mara	LITML D:		Data	1:
😹 Routing			Name	ult	JNS Name	hotspot	rectory	Hate	Limit (rx/tx)
System			A hspr	of1 r	nikrotik.hot	spot hotspot			
🙊 Queues		Hotspot							





Hotspot Server Pro	ofile <hsprof1></hsprof1>	
General Login	RADIUS	ОК
		Cancel
Default Domain:	▼	Apply
Location ID:		Сору
Location Name:	▼	Remove
MAC Format:	XX:XX:XX:XX:XX:XX	
	 Accounting 	
Interim Update:	▼	
NAS Port Type:	19 (wireless-802.11)	





🎲 System	⊳	Radius
Rueues		🛨 🖃 🖉 Reset S
Files		# Service Called ID
📄 Log		
🧟 Radius		
🄀 Tools	⊳	
🔤 New Terminal		
🔜 MetaROUTER		•
b Partition		0 items





New Radius Server	
General Status	ОК
Service: ppp login	Cancel
l → hotspot i wireless dhcp	Apply
Called ID:	Disable
Domain:	Comment
Address: 192.168.1.60	Сору
Secret: mikrotik	Remove
Authentication Port: 1812	Reset Status
Accounting Port: 1813	
Timeout: 300 ms	
Accounting Backup	
Realm:	
Src. Address:	

MikroTik



Connect user manager to hotspot







Connect user manager to hotspot

Radius Incoming		
	Accept	ОК
Port:	3799	Cancel
Requests:	0	Apply
Bad Requests:	0	Reset Status
Acks:	0	
Naks:	0	





Getting start to Configuration User Manager





Login to User Manager

- 1. First go to this address <u>http://yourrouteraddress/userman</u>
- 2. Login to User Manager With user = admin and without password

MikroTik Mikrotik User Manager
Login Password
Log in





Login to User Manager

Mikro Tik	Add Edi	it Generate				
Mikrotik User Manager						9
Pouters		∇ Username		∇ Total time left	∇ Actual profile	
lleare			·			Per page [20] 🗸
Cossian						
Sessions						
Customers						
Logs						
Payments						
Profiles						
Settings						
Reports						
0 A sessions						
0 A users						
Advanced search						
Maintenance						
Logout						





Connect user manager to hotspot

MikroTik

Mikrotik User Manager	Add Edit New
Routers	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
Users	•
Sessions	
Customers	
Logs	



Connect user manager to hotspot

Router o	letails	×
▼ Main		
	Name:	R1
	Owner:	admin
	IP address:	192.168.1.40
:	Shared secret:	mikrotik
	Time zone:	Parent time zone 🗸 🗸
	Disabled:	
	Log events:	Authorization success Authorization failure Accounting success Accounting failure
 Radius 	incomming	
	CoA support:	v
	CoA port:	3799
		Add





Create Profiles and limitations





Create limitations



Mikro**tik**



Create limitations

▲ Maii	n	Nama	-	OKhan 1CD]	
		Owner:	20	IZKOPS-IGB min			
<mark>▲</mark> Lim	its	owner.					
	Do	wnload:	OE	}			
	_	Upload:	08	3			
	1	Transfer:	10	3			
		Uptime:					
▲ Rat	e limits-		_			,	-
	R	ate limit:	Rx	256K	Тх	512K	L
	В	urst rate:	Rx	348k	Тх	768k	L
	Burst th	reshold:	Rx	192k	Тх	384k	L
	Bu	irst time:	Rx	16	Тх	16	L
		Min rate:	Rx	128K	Тх	256K	L
		Priority:	4			~	
- Cor	suams		,				-

Mikro**tik**.



MikroTik













Pro	files	Limit	atio	ns
		Prof	ile:	512Kbps-1GB 🗸 +
	Name:		ne:	512Kbps-1GB
N	lame	for use	ers:	
		Own	ner:	admin
		Validi	ity:	30d
		Star	rts:	At first logon 🗸 🗸
		Pri	ce:	0.00
	Shared users:		ers:	1 🗸
Save profile Re		Re	emove profile	
Unlim	Unlimited profile			
	Add new limitati			ion





 ▼ Period Days: ✓ Sunday ✓ Monday ✓ Tuesday ✓ Wednesday ✓ Thursday ✓ Friday ✓ Saturday 	
Time: 0:00:00 - 23:59:59	
✓ 512Kbps-1GB New limit Cancel Add	





Profiles Limitatio	ns
Profile:	512Kbps-1GB 🗸 +
Name:	512Kbps-1GB
Name for users:	
Owner:	admin
Validity:	30d
Starts:	At first logon
Price:	0.00
Shared users:	1 ~
Save profile R	emove profile
Profile limitations	
Active	Constraints
Always	Transfer limit: 1024.0 MiB Rate limits: 256K/512K 348K/768K 192K/3
Add new limitat	ion Remove selected limitations





Create Users in User Manager





Create Users

MikroTik







Create Users

User d	etails			×
🔺 Main				
	Username:	User1		
	Password:	1234		
	Disabled:			
	Owner:	admin		
Cons	traints			
 Wirel 	ess			
Priva	e intermation			
	Assign profile:	512Kbps-1GB	\sim	
			Add	





Create Users

MikroTik Mikrotik User Manager	Add Ed	lit Generate		
Routers Users		∇ Username User1	∇ Till time Not set	▼ Total time left
Sessions Customers	•			
Logs Payments				
Profiles				
Reports				
0 A sessions 0 A users				
Advanced search Maintenance				
Logout				







Please Connect to HotSpot AP2 and Login to Hotspot with user1 for user and 1234 for password

login oboit
password •••• OK





Test Solution

Please go to <u>http://hotspot2.mikrotik/status</u> for Check status and log off

Welcome User1!

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

log off





References

- 1. <u>http://wiki.mikrotik.com/wiki/Manual:User_Manager</u>
- 2. <u>http://wiki.mikrotik.com/wiki/Manual:IP/Hotspot</u>
- 3. <u>http://wiki.mikrotik.com/wiki/User_Manager/Hotspot_Example</u>
- 4. <u>http://wiki.mikrotik.com/wiki/Manual:RADIUS_Client</u>
- 5. <u>http://wiki.mikrotik.com/wiki/User_Manager/Users</u>
- 6. <u>http://wiki.mikrotik.com/wiki/User_Manager/Profiles</u>
- 7. <u>http://wiki.mikrotik.com/wiki/Manual:Customizing_Hotspot</u>





Thank You



