### آموزش برقراری لینک بین رادیوهای LHG XL HP5

برای اینکه بتوانید بین دو نقطه که در فاصله چند کیلومتری هم قرار دارند ارتباط شبکه ای برقرار کنید راه های مختلفی وجود دارد که یکی از آنها ارتباط وایرلس میباشد. ما در این مقاله به آموزش برقراری لینک بین دو نقطه با استفاده رادیو LHG XL HP5 خواهیم پرداخت. اما اگر بخواهیم کمی به جزئیات این رادیو بپردازیم باید بگوییم که این رادیو از خانواده LHG می باشد. حروف HP به ما میگوید که این رادیو نسبت به دیگر هم خانواده های خود قویتر می باشد و حروف XL به ما میگوید که این رادیو نسبت به هم خانواده های خود کمی بزرگتر است. با وجود چنین مشخصاتی حتما متوجه شدید که این رادیو مسافت بیشتری را پوشش می دهد و اگر میخواهید برای لینک خود پهنای باند بیشتری داشته باشید از این رادیو استفاده کنید. برای برقراری لینک بین دو رادیو THG XL HP5 در ادامه با فروشگاه یاقوت همراه باشید.

### تنظيمات راديو AP

- ابتدا رادیو خود را به کامپیوتر و لپتاپ متصل کنید.
  - سپس نرم افزار Winbox را باز کنید.
- در قسمت پایین نرم افزار رادیو خود را مشاهده خواهید کرد، روی Mac رادیو کلیک کنید.
  - در قسمت Login کلمه admin را وارد کنید.
    - قسمت Password را خالی بگذارید.
  - روی دکمه Connect کلیک کنید تا وارد محیط اصلی نرم افزار شوید.

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edmin@db251bG198F (MbkrTq) - WmBe (bldg) <&d5.0 m LHG HPS (mppba)</p>

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اکنون وارد محیط اصلی نرم افزار شده اید. در منوی سمت *ر*است روی گزینه Wireless کلیک کنید.

در این قسمت روی اینترفیس Wlan1 کلیک کنید سپس آنرا فعال کنید و در نهایت روی آن دابل کلیک کنید.

Safe Mode	Session: 08:55:31:6C:19:9F		
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در این پنجره به تب Wireless مراجعه کنید.

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در تب وایرلس تنظیمات زیر را اعمال کنید.

- در قسمت Mode روی گزینه Bridge کلیک کنید.
- در قسمت Band روی Ghz-only-N کلیک کنید.
- در قسمت Channel Width روی گزینه 20/40MHz Ce کلیک کنید.
  - در قسمت Frequency فركانس مورد نظر خود را وارد كنيد.
    - در قسمت SSID هر کلمه که مدنظر دارید وارد کنید.
  - در قسمت Radio Name نام رادیو خود (دلخواه) را وارد کنید.
- در قسمت Frequency Mode روی گزینه Superchannel کلیک کنید.
  - در قسمت Country روی گزینه no\_country\_set کلیک کنید.
    - در نهایت روی دکمه Apply کلیک کنید.

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Files     WPS Mode: push button       Log     Tods       Nature     Tods       Tods     Tods       Tods     Scourdy: cocountry Loss       Tods     Scourdy: cocountry Loss       Tods     MataBourge       MetaROUTER     Item       Patton     Stabled       Bridge Mode: enabled     Sone       Bridge Mode: enabled     Sone       Stat     Enabled	Files     WPS Mode:     publicition       Log     Tods     Trequency Mode:     puperchannel       Tods     Tods     Stup Repeater       Tods     Scurity:     cocortity.act       New Terminal     Tods     Stup Repeater       Dot1X     Anterna Gain:     25       MetROUTES     Regulation:     Manual Support:       Mater Suport:     dashed     Tods       Pattion     Bridge Mode:     enabled       Exit     Tended     Stave	Fies     WPS Mode:     publicition       Log     Robust     Experimental       RADUS     8 Controly:     Scone       Tools:     Pinstalation:     Scone       New Terminal     Item     Material Scone       DottX     Pinstalation:     Scone       MetaRoport.rfl     Bridge Mode:     enabled       New WinBox     Ext     Fees Configuration       Bridge Mode:     enabled     Fees Configuration       Windows     Pinstalation:     Fees Configuration	Queues		Security Profile:	default	Ŧ	Wind Charles				
I og     Parlus     Trequency Mode: sperchannel     Image: sperchannel     Setup Repeter       RADIUS     Radio Scantry: setup Repethannel     Image: sperchannel     Setup Repeter       New Terminal     Image: sperchannel     Image: sperchannel     Scant.       New Terminal     Image: sperchannel     Image: sperchannel     Scant.       Parlus     Image: sperchannel     Image: sperchannel     Image: sperchannel       VMMS Support: databled     Image: sperchannel     Scant.       Parlus     Image: sperchannel     Image: sperchannel       VMMS Support: databled     Image: sperchannel     Scant.       Parlus     Image: sperchannel     Image: sperchannel     Image: sperchannel       VMMS Support: databled     Image: sperchannel     Image: sperchannel     Image: sperchannel       VMMS Support: databled     Image: sperchannel     Image: sperchannel     Image: sperchannel       Image: sperchannel     Image: sperchannel     Image: sperchannel     Image: sperchannel       Image:	Log RADIUS Trequency Mode superhannel Reverminal Dot X New Terminal Patton Retarrow Reactor Retarrow Retarrow Retarrow Retarrow Retarrow Retarrow Reverminal Retarrow Retarrow Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Reverminal Rever	Log     Image: Control of the subsection	Files		WPS Mode:	push button	Ŧ	WF5 Cleni				
RADUS     Frequency were supported and an analysis of the support of an analysis of the support of t	RADIUS     Implementation in the section of the section	RADIUS     Indexervity mode indexervity and indexervity andindexervity and indexervity and indexervity and indexervi	Log		7	a manhamad		Setup Repeater				
New Terminal     Image: Code of year of the second of the second of year of the seco	India     Constant	India     County Journal       New Terminal     County Journal       Dat IX     Antenna Gan:       Dat IX     Antenna Gan:       Pantion     Bridge Mode:       Bridge Mode:     Image: Support idsabled       Bridge Mode:     Image: Support idsabled       Image: Support idsabled     Image: S	RADIUS		Prequency mode.	superchanner		Scan				
Merri Ferrinalia     Inductional Concord     Inductional Concord       DottX     Artena Gán: 25     Jela       MetaROUTER     Item     Inductional Concord       Partition     Item     Sinfi       VMM Support disabled     Item       New WinBox     Bridge Mode: enabled       Sinf     Reset Configuration       Sinf     Item	Interviewing     Vertifiering     Vertifiering     Vertifiering     Vertifiering       MetaROUTER     Item     Arteno Gan: 25     JBB       Pantion     Item     Bridge Mode: (ababled     Item       Nake Support if     Bridge Mode: (enabled     Item       Bridge Mode: (enabled     Item     Reset Configuration       Exit     Item     Item	View remine     View remine       Dot IX     Arterna Gan: 25       MetaROUTER     1 Rem       New WinBox     Bridge Mode: enabled       Bridge Mode: enabled     Image: Consignation form	Loois		Installation:	outdoor		Freq. Usage				
MetaROUTER     Iter     WMM Support.     Gabiled     Snff       P antion     Bridge Model (enabled)     Iter       New WnBox     Enabled     Iter       Snit     Enabled     Iter	MetaROUTER     Item     Voident data is in the second of the seco	MetaROUTER     Item     Voidend care is in the second of the seco	Dot1X		Anteona Gain:	25	dBi	Align				
Partion WMM Support: deabled  Make Support: Bridge Mode: enabled  For Winds  Ext enabled  For Winds  For Wind	Pention     Index Support: databled     Image: space sp	Patton     WMM Support: databled       Make Support: fill     Bitdge Mode: (enabled       Windows     Fattor	MetaROUTER	+ 1 item	Price and count.			Sniff				
Make Support aff         Bridge Mode: (enabled         Concept: minipage           New WinBox         •         •         •           5 bit         •         •         •	Make Support #     Bridge Mode: enabled       New WinBox     •       Exit     •       Image: Second and Second	Make Support #     Bidge Mode: enabled     Image: Configuration       New WnBox     Image: Configuration       Exit     enabled       Windows     Image: Configuration	Partition	TROUT	WMM Support:	disabled		Snooper				
New WinBox         Image: Control of the section	New WinBox     Image: Configuration       Exit     enabled       Numming     slave       searching for n	New WinBox     Image: Configuration       Exit     Image: Configuration       Windows     Image: Configuration	Make Supout.rif		Bridge Mode:	enabled						
sont enabled unning dave searching for n	Exit enabled running slave searching for n	Exit     enabled     running     slave     searching for n       Windows     N	New WinBox				•	Reset Configuration				
	Windows P	Windows	Exit		enabled	running slave	searching for n					

به تب HT مراجعه کنید و دقت کنید تیک تمام Chain ها خوauده باشد.

Session Settings Da	19:9F (N shboard	likroTik) - WinBox (64bit)	v6.45.9 on LHG H	P5 (mipsbe)													-	D	×
Safe Mode	Sessio	n: 08:55:31:6C:19:9F																	
🔏 Quick Set		Interface <wlan1></wlan1>					×	٢.											
CAPsMAN	Merch	Advanced HT HT M	CS WDS Nstrer	me NV2 Tx Po	ower	OK	11	1		_	_	_	6						
Here Interfaces	WEGG	Tx Chains:	nain0i 🔽 chain1			Cancel	1	i l					L						
L Wireless	WiFi	2 By Chains: d	nain0 🖌 chain1			Analy	ha	hanne	ls										
PPP	+-					лрру	me	ment	Wireless S	Sniffer	Wireless	Snooper	Find						
I Switch		AMSDU Limit: 8192	2			Disable		Tx P	acket (p/s)	Rx Pa	acket (p/s	) FP T	x	-					
°te Mesh		AMSDU Threshold: 8192	2			Comment				0		0		0					
🕮 IP 🗈		Guard Interval: any			Ŧ	Simple Mode	1	1											
MPLS N		AMPDU Priorities: 🗹 0	1 2 3			T I	-												
Routing N		4	5 6 7			Iorch													
igi System						WPS Accept													
Eler						WPS Client													
						Setup Repeater													
A RADIUS						Scan		1											
💥 Tools 🔹 🗅						Ere User	1												
📰 New Terminal						Freq. Usage													
Dot1X	+					Align								•					
MetaROUTER	1 item					Sniff	JE												
Partition						Snooper													
New WinBox						Reset Configuration		1											
Exit							-	-											
× ·		lenabled from	ning  si	dVe	searching for h														
🚆 🗐 Windows 🛛 🗅																			
N																			
S																			
er(																			
nt																			
Ro																			

در منوی سمت چپ روی Bridge کلیک کنید و در پنجره باز شده روی علامت + کلیک کنید.

Sersion Settings	I:6C:19:9F (MikroTik) - WinBox (64bit) v6.45.9 Dachboard	9 on LHG HP5 (mipsbe)						.—	٥	×
Safe Mo	de Session: 08:55:31:6C:19:9F									
CAPsMAN CAPsMAN Im Interfaces CWireless Bidge Didge 1										
약 Switch 약 Mesh 말 IP	Bridge Ports VLANs MSTIs Port	t MST Overrides Filters NAT I	Hosts MDB							
MPLS     Routing		ings	Bx	Tx Packet (p/s)	Rx Packet (p/s)	FP Tx	FP Rx	FP Tx Packet (p/s) FP Bx Pa	Find	MA 🕶
System Queues Files Log RADIUS Tools New Termina Dot1X Partition Make Support	r (rea)									
Exit	O items out of 2									•
RouterOS Win										

در این قسمت نیاز به انجام کاری نیست و با همین تنظیمات روی دکمه OK کلیک کنید.

0	admin@08:55:31:6C:	19:9F (MikroTik) - WinBox (64bit) v6.45.9 on LHG HP5 (mipsbe)			– ō X
Se N	Safe Mode	Session: 08:55:31:6C:19:9F			
	Cuick Set CAPsMAN Im Interfaces Wireless Bidge Im PPP		New Interface		
	🕎 Switch	Pridna	General STP VLAN Status Traffic	1 ок	
	IP P MPLS P	Bridge Ports VLANs MSTIs Port MST Overrides Filters NA	Name: [bridge] Type: Bridge	Cancel	End
	Routing         N           System         N           Queues         Fries           Iog         ARADIUS           X Tools         N           New Terminal         HotIX           MetaROUTER         Partition           J Make Supout #f         Make Supout #f           Make Supout #f         Fries	Name / Type L2 MTU Tx	MTU:         ▼           Actual MTU:	Disable       Comment       Copy       Remove       Torch	FP Rx  FP Tx Packet (ρ/s)  FP Rx Packet (ρ/s)  MA ▼
inBox	Exit	O items out of 2	I Fast Forward		•
RouterOS W			enabled junning plave		

در پنجره Bridge به تب Port رفته و روی علامت + کلیک کنید. در پنجره New Bridge Port در قسمت Interface

C.C.M.A.	Deside 09.55.21.00.19.95	3						
- Sale Mode	Jession. 00.00.01.00.10.01			_		_		
CAReMAN								
Interfaces								
Wireless								
Bridge								
PPP								
Switch								
Mesh								
IP N	Bridge Ports VLANs	MSTIs Port MST	Overrides Filters NAT Hosts					
MPLS				New Bridg	e Port			
Routing		<u> </u>		General	STP VLAN Status		ОК	
System N	# Interface	Bridge	Horizon Trusted Priority (h.	Interface	wlan1	Ŧ	Cancel	
Queues				Bridge	bridge 1		Analy	
Files				bilage	[bridge i		Abbiy	
Log				Horizon			Disable	
RADIUS				Leam	auto	Ŧ	Comment	
Tools D					Unknown Unicast Rood			
New Terminal					Unknown Multicast Flood		Copy	
Dot1X					Broadcast Flood		Remove	
MetaROUTER					Tested			
Partition								
Make Supout.nf								
New WinBox				enabled	inactive		ad	
, Exit								
	0 items							
Windows								

گزینه Wlan1 *ر*ا انتخاب کنید و روی دکمه OK کلیک کنید.

مجددا در پنجره New Bridge Port در قسمت Interface گزینه Ether1 را انتخاب کنید و روی دکمه OK کلیک کنید.

Sadmin@08:55:31:6C:	9:9F (MikroTik) - WinBox (64bit) v6.45.9 on LHG HP5 (mipsbe)		– 0 ×
Session Settings Da	hboard		
Safe Mode	Session: 08:55:31:6C:19:9F		
A Quick Set       I CAPEMAN       Im Interfaces       Vireless       Brdge       PP       Switch       I PP       Vireless       PP       Switch       I PP       Poil       PI       Poil       PP       Poil       Poil <t< th=""><th>Endope       Bridge     Forts     VLANs     MSTIs     Port MST Overrides     Filters     NAT     Host       H     Interface     Bridge     Horizon     Trusted     Priority #       U     1     2-24 w/an 7     bridge 1     no</th><th>New Bridge Port</th><th>Find V</th></t<>	Endope       Bridge     Forts     VLANs     MSTIs     Port MST Overrides     Filters     NAT     Host       H     Interface     Bridge     Horizon     Trusted     Priority #       U     1     2-24 w/an 7     bridge 1     no	New Bridge Port	Find V
S New WinBox		anabled insertion like Officerd	
× Exit		Induire Hw. Unidad	
	1 item		

از منوی سمت *ر*است به قسمت IP و سپس به قسمت Addresses مراجعه کنید.



در پنجره Address list روی علامت + کلیک کنید. در پنجره Address در قسمت Address یک IP وارد کنید و در قسمت Interface گزینه ether1 را انتخاب کنید و سپس رو دکمه OK کلیک کنید.



اکنون تنظیمات AP شما به اتمام رسیده است. در ادامه به آموزش تنظیمات Station میپردازیم تا لینک شما کامل

شود.

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*ر*ادیو AP خود *ر*ا از کامپیوتر جدا کنید و در جای دیگر اتاق به برق متصل کنید تا *ر*ادیو *ر*وشن بماند.د*ر* نظر داشته باشید نیاز نیست *ر*ادیو به جایی متصل باشد.

### تنظيمات راديو Station

- ابتدا رادیو خود را به کامپیوتر و لپتاپ متصل کنید.
  - سپس نرم افزار Winbox را باز کنید.
- در قسمت پایین نرم افزار رادیو خود را مشاهده خواهید کرد، روی Mac رادیو کلیک کنید.
  - در قسمت Login کلمه admin را وارد کنید.
    - قسمت Password را خالی بگذارید.
  - روی دکمه Connect کلیک کنید تا وارد محیط اصلی نرم افزار شوید.

Add/Set	Connect To RoMON Connect	
ned Neichbors		
Refresh Address / IP Address Identity Version Board I Intime	[-ind ] [al	_
5A.EC.98-2A 0.0.0.0 MikroTik 6.45.9.(o RBLHG-SHPhD 00:00:57		_

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اکنون وارد محیط اصلی نرم افزار شده اید. در منوی سمت چپ روی Wireless کلیک کنید.



در این قسمت روی اینترفیس Wlan1 کلیک کنید سپس آنرا فعال کنید و در نهایت روی آن دابل کلیک کنید.

	Registration Connect Lis ip Repeater Scanner Tx 0 bpe	at Security Profiles ( Freq. Usage   Align Rx 0 bp	Channels Imment   Wireless  Tx Packet (p/s  s	s Sniffer Wire ) Rx Packet 0	eless Snooper at (p/s) FP 0	Find Tx
CAPMAN     Im Interface     Weckss Tables     Weckss Tables     Weckss Tables     Weckss Tables     Wifi Interface     Wecks Station Naterne Dual Access List Regist     Wifi Interface     Wecks Station Naterne Dual Access List Regist     Wifi Interface     Wecks Station Naterne Dual Access List Regist     Wifi Interface     Wecks Station Naterne Dual Access List Regist     Wifi Interface     Wecks Station Naterne Dual Access List Regist     Wifi Interface     Wecks Station Naterne Dual Access List Regist     Wifi Interface     Wecks Station Naterne Dual Access List Regist     Wifi Interface     Wecks Station Naterne Dual Access List Regist     Wifi Interface     Wecks Station Naterne Dual Access List Regist     Wifi Interface     Wecks Station Naterne Dual Access List Regist     Wifi Interface     Wecks Station Naterne Dual Access List Regist     Wifi Interface     Wecks Station Naterne Dual Access List     Routing     P     Wecks Station Naterne Dual Access List     Routing     Num	Registration Connect Lis up Repeater Scanner Tr Obps	t Security Profiles C Freq. Usage Align Rx Obp	Channels Imment Wireless Tx Packet (p/s	s Sniffer Wire ) Rx Packet 0	eless Snocper at (p/s) FP 0	Find Tx
Imit refraces       Wrefess       Wrefess       Bråge       Bråge       Will Interfaces       Will Interfaces <t< td=""><td>Registration Connect Lis up Repeater Scanner Tx Obpe</td><td>at Security Profiles C Freq. Usage Align Rx Obp</td><td>Channels Imment   Wireless Tx Packet (p/s</td><td>s Sniffer Wire ) Rx Packet 0</td><td>eless Snooper at (p/s) FP 0</td><td>Find Tx</td></t<>	Registration Connect Lis up Repeater Scanner Tx Obpe	at Security Profiles C Freq. Usage Align Rx Obp	Channels Imment   Wireless Tx Packet (p/s	s Sniffer Wire ) Rx Packet 0	eless Snooper at (p/s) FP 0	Find Tx
Wreless       Brdge       PPP       WiFi Iterface       WBQ       Station       Name       Duby       WiFi Iterface       WBQ       Station       Name       Dip       Oucles       Files       Dig       Routing       Files       Dig       Routing       Files       Dig       Routing       Pilotit       Weeless (Athenes AR9.       1500	Registration Connect Lis up Repeater Scanner Tx 0 bps	at Security Profiles C	Channels Imment Wireless Tx Packet (p/s	s Sniffer Wire ) Rx Packet 0	eless Snooper at (p/s) FP 0	Find Tx V
Signage         Workstandows         Market           Signage         With Interfaces         WebQ Station         Natreme Dual         Access List         Regis           Signage         With Interfaces         Workstandows         Image: Signage         With Interfaces         With Interfaces <td< td=""><td>Registration Connect Lis up Repeater Scanner Tx Obps</td><td>at Security Profiles C Freq. Usage Align Rx 0 bp</td><td>Channels Imment Wireless Tx Packet (p/s</td><td>s Sniffer Wire ) Rx Packet 0</td><td>reless Snooper et (p/s) FP 0</td><td>] [Find Tx  </td></td<>	Registration Connect Lis up Repeater Scanner Tx Obps	at Security Profiles C Freq. Usage Align Rx 0 bp	Channels Imment Wireless Tx Packet (p/s	s Sniffer Wire ) Rx Packet 0	reless Snooper et (p/s) FP 0	] [Find Tx
Image: Source of the second	Registration Connect Lis up Repeater Scanner Tx 0 bps	at Security Profiles C	Channels Imment Wireless Tx Packet (p/s	s Sniffer Wire ) Rx Packet 0	eless Snooper et (p./s) FP 0	Find Tx
***         Switch         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •         •<	µp Repeater Scanner  Tx 0 bps	Rx 0 bp	Tx Packet (p/s	s Sniffer   Wire ) Rx Packet 0	eless Snooper et (p/s) FP 0	Tx
*13 Wesh     Name     Type     Actual MTU Tx       12 P     WW     Wweless (Atheros AR9     1500       WRLS     P     Wweless (Atheros AR9     1500       Wreless (Atheros AR9     1500     1500       System P     P     Outcose     1500       P Outcose     Res     0     1500       Wreless (Atheros AR9     P     1500       Wreless (Atheros AR9     1500     1500	Tx 0 bps	Rx 0 bp	Tx Packet (p/s	) Rx Packet	et (p/s) FP 0	Tx
up         P         r           WPLS         Wreless (Athens AR9	0 bps	0 bp	15	0	•	
✓ MPLS P						
Reform         P           Outcuts         P           Image: Reference         P           ARJUUS         P           Image: Reference         P						
© System						
Globel     Globe						
Leg ARADIUS ★ Tools New Teminal ♦ DottX MetaROUTER						
Mew Terminal ♣ DottX ₩ MetaROUTER						
4 Dol1X MetaROUTER						
MetaROUTER						
Partition						
Make Supout of 2 (1 selected)						
New WinBox						
Exit						
Windows N						

# در این پنجره به تب Wireless مراجعه کنید.

Safe Mode	Session	48:8F:5A:EC:9B:2A					
Quick Set		Interface <wlan1></wlan1>					
CAPSMAN		General Wireless	Data Rates Advanced HT WDS Nstreme	OK			
Interfaces		Mode:	station 🔻 🔹	Cancel			
Pridae	Wirele	Band:	5GHz-A	Anabi			
PPP	WiFi	Channel Width:	20MHz	лириу	hannels		
2 Switch		Erequencu:	5500 <b>X</b> MH	Disable	ment Minister Coffee Minister Conserve		
8 Mesh		riequericy.	Miles Til	Comment	The state of the s		
∎IP ►		Dadia Mama		Simple Mede	IX Packet (p/s) PX Packet (p/s) PP IX		
MPLS 🗅		Hadio Name.	400FDREC5B2B	Simple Mode			
Routing		Scan List:	oefault 🔹 🕈	Torch			
System		Wireless Protocol:	any Ŧ	WPS Accept			
Queues		Security Profile:	default	WPS Client			
hies .		Frequency Mode:	regulatory-domain Ŧ	Setup Repeater			
		Country:	etsi 🔻				
Tools		Installation:	outdoor	Scan			
New Terminal		Antenna Gain:	25 dBi	Freq. Usage			
Dot1X		WHILE County	(a.a.t.a)	Align			
MetaROUTER		WMM Support:	disabled •	Sniff			
Partition	•	Station Hoaming:	enabled	Snooper	•		
Make Supout.rif	1 item		Default Authenticate				
New WinBox				Reset Configuration			
. Exit		enabled n	unning slave searching for n	L			
Mindows							
a windows							

در تب وایرلس تنظیمات زیر را اعمال کنید.

- در قسمت Mode گزینه station را انتخاب کنید.
- در قسمت Band گزینه 5GHz-A/N را انتخاب کنید.
- در قسمت Channel Width گزینه 20/40MHz Ce را انتخاب کنید.
  - در قسمت Radio Name نام دلخواه خود را وارد کنید.
- در قسمت Scan List روی فلش رو به پایین که در شکل مشخص شده است کلیک کنید.سپس فرکانسی که در رادیو AP در قسمت frequency وارد کرده بودید در این قسمت وارد کنید.
  - در قسمت Frequency Mode گزینه superchannel را انتخاب کنید.
    - روی دکمه Apply کلیک کنید.
    - و در آخر روی دکمه Scan کلیک کنید.

Quick Set CAPsMAN Interfaces	-	48:8F:5A:EC:9B:2A				
CAPsMAN Interfaces		Interface <wlan1></wlan1>				
Interfaces		General Wireless	Data Rates Advanced HT	HT MCS WDS	ОК	
Winalace		1 Mode	station	<b>.</b>	Cancel	
Bridge	Wirele	2 Band	5GHz-A/N	Ŧ	7 Apply	
PPP	WiFi	3Channel Width	20/40MHz Ce			hannels
Switch	+-	Frequency	: auto	∓ MHz	Disable	ment Wireless Sniffer Wireless Snooper Find
Mesh		SSID	: MikroTik		Comment	Tx Packet (p/s) Rx Packet (p/s) FP Tx 💌
IP P		4 Radio Name	: Yaghoot-S		Simple Mode	
Routing		5 Scan List	: default	<b>= +</b>	Torch	
System N			5500	Ŧ	WPS Accept	
Queues		Wireless Protocol	any		WPS Client	
Files		Security Profile	default	•	Satur Repeater	
Log		Frequency Mode	superchannel		Setup Hepeater	
Toole		Country	no country set		8 Scan.	
New Terminal		Installation	outdoor		Freq. Usage	
Dot1X		Antenna Gain	25	dBi	Align	
MetaROUTER		WILL Carried	. Laconca		Sniff	
Partition	•	Chatics Description		I•I	Snooper	•
Make Supout rif	1 item	Station rioaning	lenabled		Reset Configuration	
Fyit					meset configuration	
Windows		enabled	unning slave	searching for h		-

### فروشگاه اینترنتی یاقوت

در پنجره Scanner روی دکمه استارت کلیک کنید تا رادیو AP خود را در لیست زیر مشاهده کنید. روی رادیو کلیک کنید و سپس روی دکمه Connect کلیک کنید.

	Interface <wlan1></wlan1>			
	General Wireless	Data Rates Advanced	HT HT MCS WDS OK	
	Mode	station	Scanner (Ruming)	
/irele	Band	5GHz-A/N		
WiFi	Channel Width:	20/40MH+ Ce		
	Chainer Widen.	20/40/01/2 06	Stop	
••	Frequency	auto	Close	
	SSID	: Mikro lik	3Connect	
	Radio Name:	Yaghoot-S	New Window	
	Scan List:	default		
		5500	Address SSID Channel Signa Noise Signa Radio Name RouterO	
	Wireless Protocol:	: any	Arrivb 06:33:31:60:19:A0 Tagnoot 3000/2 46 -114 06 Tagnoot 6:43:3	
	Security Profile:	default		
	Concerne Made			
	Frequency mode.	superchannel		
	Country	no_country_set		
	Installation:	outdoor		
	Antenna Gain:	: 25		
	WMM Support:	disabled		
	Station Roaming	enabled		
rtem				
	enabled	running slave		
			1 item (1 selected)	
	irele MiR ••	General Wreless Mode Balance WF Channel Wath Frequency SSID Radio Name Scan List Wreless Protocol Security Profile Frequency Mode Country Installation Arterna Gain WMM Suppot	General         Wretess         Data Rates         Advanced           Mode         station         Band.         SGHz-ArN           Band.         SGHz-ArN         Band.         SGHz-ArN           Channel Weht:         20/40MHz Ce         Frequency:         add           Frequency:         add         SSID.         MileroTik           Radio Name:         Yeghoot-S         SSon List:         Gefault           Security Profile:         Gefault         Genuity:         Frequency           Security Profile:         Gefault         Country: set         Instatilation:         oxtdoor           Aritema Gain:         25         WMM Support:         disabled         Gesabled           Tenabled         rumming         enabled         disabled         Station Reaming:         Station	General Wreiess Data Rates Advanced HT HT MCS WDS OK Mote: itation Band SSthz-A/N Band SSthz-A/N Frequency: ada Conset SSt0 Hierface: infort Background Scan Cose Cose SSt0

در صورت اتصال در پایین پنجره وایرلس درقسمت StatusBar گزینه Running و سپس connect to ess را مشاهده خواهید کرد این یعنی اتصال شما برقرار است و ۸۰ درصد راه را رفته اید. در آخر روی دکمه OK کلیک کنید تا تنظیمات شما ذخیره شود.

Guick Set		Interface <wlan1></wlan1>						
CAPSMAN		General Wireless	Data Rates Advanced HT HT MCS WDS		ОК			
m Interfaces				-	Caral			
Wireless	Wirele	Mode.	Scall of bridge		Caricer			
Bridge	W(E)	Band:	SGHZ-AVN	•	Apply	hannah .		
M Switch	-	Channel Width:	20/40MHz Ce	<b>₹</b>	Disable	hanneis		
2 Switch	+-	Frequency:	[5500 ₽ MI	z	Comment	ment Wireless Sniffer Wireless Snooper Find		
		SSID:	Yaghoot	▲		Tx Packet (p/s) Rx Packet (p/s) FP Tx		
MPLS N	к	Radio Name:	Yaghoot-S		Simple Mode	0 1 0		
Routing		Scan List:	default F	\$	Torch			
System			5500	\$	WPS Accept			
Queues		Wireless Protocol:	any	Ŧ	WPS Client			
Files		Security Profile:	default	Ŧ				
Log		Empresa Mada	[	-	Setup Repeater			
RADIUS		requercy mode.	supercriatine	•	Scan			
Tools N		Country:	no_country_set	•	Freq. Usage			
New Terminal		Installation:	outdoor	₹	Alian			
Dot1X		Antenna Gain:	25 dB		Aign			
MetaROUTER		WMM Support:	disabled	Ŧ	Sniff			
Make Suport of	•	Station Roaming:	enabled	Ŧ	Snooper	•		
New WinBox	Titen			•	Reset Configuration			
E Fvit		<b>_</b>				-		

#### فروشگاه اینترنتی یاقوت

در منوی سمت چپ روی Bridge کلیک کنید و در پنجره باز شده روی علامت + کلیک کنید.

Q: Safe Noda       Seeson: 48.09 55AEC:38 2A         Q: CAPAUM       Interface         Winderson       Interface	admin@48:8F:5A:EC	2:9B:2A (MikroTik) - WinBox (64bit) v6.45.9 o ashboard	n LHG HP5 (mipsbe)							-	o x
A do Set       CAPABAN         I CAPABAN       Interface         I CAPABAN       Setemation         I Wretes       Setemation         I Mark       Mark Hods         I Mark       I Mark         I Mark       Tar Peaket (p/s)         I Mark       Tar Peaket (p/s)         I Mark       Mark         I Mark       Mark <td< th=""><th>Safe Mode</th><th>Session: 48:8F:5A:EC:9B:2A</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>	Safe Mode	Session: 48:8F:5A:EC:9B:2A									
CAPANA     Wreise     Wreis	A Quick Set										
Interface       Wrees         Wrees       Such         Such       Bobs         Wrees       Such         System       System         System       Tools         Revers       Tools         New Tennal       Dens Out of 2         Wredow       Image: Succed for the standard	CAPsMAN										
Welse  PPP  Skotn Poly Poly Poly Poly Poly Poly Poly Poly	im Interfaces										
Second PPP Solution Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane Plane	🔔 Wireless										
Sortich     S	Bridge										
Subch  Stoch  S	PPP 📬	_									
Werk       0000       Poiss VLANs MSTs Poit MST 0venides Pites NAT Hoats MDB         WPLS       Image: Constrained Pites NAT Hoats MDB         Queues       Image: Constrained Pites NAT Hoats MDB         Queues       Image: Constrained Pites NAT Hoats MDB         Person       Image: Constrained Pites NAT Hoats MDB         Queues       Image: Constrained Pites NAT Hoats MDB         Person       Image: Constrained Pites NAT Hoats MDB         Poisson       Image: Constrained Pites NAT Hoats MDB         Queues       Image: Constrained Pites NAT Hoats MDB         Person       Image: Constrained Pites NAT Hoats MDB         Poisson       Image: Constrained Pites NAT Hoats MDB     <	T Switch										
Image: Point VLANS IMSTS Point NST Overrides Rives NAT Hosts MDB         Image: Point VLANS IMSTS Point NST Overrides Rives NAT Hosts MDB         Image: Point VLANS IMSTS Point NST Overrides Rives NAT Hosts MDB         Image: Point VLANS IMSTS Point NST Overrides Rives NAT Hosts MDB         Image: Point VLANS IMSTS Point NST Overrides Rives NAT Hosts MDB         Image: Point VLANS IMSTS Point NST Overrides Rives NAT Hosts MDB         Image: Point VLANS IMSTS Point NST Overrides Rives NAT Hosts MDB         Image: Point VLANS IMSTS Point NST Overrides Rives NAT Hosts MDB         Image: Point VLANS IMSTS Point NST Overrides Rives NAT Hosts MDB         Image: Point VLANS IMSTS Point NST Point NST Overrides Rives NAT Hosts MDB         Image: Point NST Point NS	°t <sup>©</sup> Mesh	Bridge	1	1							
WES       Image: Construction of the second of	의 및 P	Ports VLANs MSTIs Port MS	TOverrides Filters NAT H	Hosts MDB							
Windows       Image: Control of the second of	MPLS P	🛉 🗕 🗸 💥 🖆 🍸 Settings									Find
Windows       Fed         Windows       Fed         Windows       Fed	Kouting P	Type	L2 MTU Tx	Rx	Tx Packet (p/s)	Rx Packet (p/s)	FP Tx	FP Bx	FP Tx Packet (p/s)	FP Rx Packe	t (p/s) MA
Guedes     Flee     Log     RANUS     Tools     New Teminal     the teminal     the Support of     New Windows     Ext     Vindows     Vindows	sige System	Add									
Image: Second relation of a second relat	Cueues	-									
Code       Code         RADUS       Tools         New Teminal       Patkino         Make Support iff       New WinBox         E Ext       0 Lems out of 2	Files	-									
Image: Product S         Image: Product S         Image: MetaBourd F         Imag	Log	-									
New Temps MetaBoUTER MetaBoUTER MetaBoUTER MetaBoUTER MetaBoUTER MetaBoUTER MetaBoUTER Dems out of 2 Dems out of 2	Sill Taala	-									
Were Homma         Were ARROUTER         Partion         New WinBox         E Ext         Otems out of 2	Now Tominal	-									
MetaROUTER MetaROUTER MateSupertin New Windows E Ext Undows Windows New Windows New Wind	de Dot1V										
Perstein Perstein New Windows Perstein	MetaBOUTER										
Make Supput If New WinBox E Eat Windows P	Partition	-									
New WinBox E Ext Undows	Make Supput if										
Ext U Rems out of 2	New WinBox	-									
Windows P	Exit										
		Ottoms out of 2									
	🖣 📰 Windows 🗈	Unterns out of 2									
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	5										
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	nc										
	×										
	_										

در این قسمت نیاز به انجام کاری نیست و با همین تنظیمات روی دکمه OK کلیک کنید.



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در پنجره Bridge به تب Port رفته و روی علامت + کلیک کنید. در پنجره New Bridge Port در قسمت Interface گزینه Wlan1 را انتخاب کنید و روی دکمه OK کلیک کنید.

Safe Mode	Session: 48:8F:5A:EC:9B:2A			
Curck Set     CAPMAN     CAPMAN     Markets     Wreless     Wreless     Wreless     Wreless     Wreless     Wreless     Pop     Po     Swtch     OMPLS     Po     Oucces     Fies     Cucces     RADIUS     New Terminal     Doublx     MetaROUTER     MetaROUTER     MetaSOuth     Meke Suport      New Settor      New	Endge Bridge Forts VLANs MSTIs Port MST Overrides Filters NAT Hosts Control of the State of the	New Bidge Pot General STP VLAN Status Hefedo: Man1 Bidge: Under Hotson: Leam: auto Vukinown Muticast Rood Vukinown Muticast Rood Vukinown Muticast Rood Vukinown Muticast Rood Vukinown Muticast Rood	Cancel Apply Daale Comment Copy Remove	Find
📕 Exit		enabled inactive Hw. Utilo	pad	
	0 items			
vindows 1				

مجددا در پنجره New Bridge Port در قسمت Interface گزینه Ether1 را انتخاب کنید و روی دکمه OK کلیک کنید.

C* Safe Mode	Session: 48:8F:5A:EC:9B:2A			
At Quick Set				
CAPsMAN				
Interfaces				
1 Wireless				
Bridge				
E PPP				
🛫 Switch				
° <mark>⊺8</mark> Mesh	Bridge			
딸 IP 🗈 🗈	Bridge Ports VLANs MSTIs Port MST Overrides Filters NAT Hosts	New Pridge Port		
Ø MPLS			4	Find
😹 Routing 🛛 🗅	tt Interface Bridge Horizon Trusted Priority fr	General STP VLAN Status		
System ►	0 4th wan1 bridge1 no	Interface: ether1	Cancel	
Queues		Bridge: bridge1	F Apply	
Files	-			
Log	-	Horizon:	Disable	
RADIUS		Leam: auto	Comment	
X Tools		Unknown Unicast Flood	Conv	
Mew Terminal	-	Unknown Multicast Flood		
♦ Dot1X	-	<ul> <li>Broadcast Flood</li> </ul>	Hemove	
MetaROUTER		Trusted		
Partition				
Naw Mar Supout.m	-	Hardware Offload		
		enabled inactive	Hw. Offload	
	-	E		
Windows	1 item			

از منوی سمت *ر*است به قسمت IP و سپس به قسمت Addresses مراجعه کنید.



در پنجره Address list روی علامت + کلیک کنید. در پنجره Address در قسمت Address یک IP وارد کنید و در

قسمت Interface گزینه ether1 *ر*ا انتخاب کنید و سپس *ر*و دکمه OK کلیک کنید.

Conset     Conse	

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اکنون نوبت تست ارتباط رسیده است. به قسمت Tools و سپس Ping مراجعه کنید.

-			 _
Safe Mode	Session: 48:8F:5A:EC:9B:2A		
Guick Set			
CAPsMAN			
m Interfaces			
🕵 Wireless			
Bridge			
PPP			
2 Switch			
Co Mesh			
및 IP 🗈 🗈			
MPLS N			
Routing			
System N			
Queues	BTest Server		
Files	Bandwidth Test		
Log	Email		
RADIUS	Flood Ping		
💥 Tools 🛛 🗅	Graphing		
New Terminal	IP Scan		
Dot1X	MAC Server		
MetaROUTER	Netwatch		
Partition	Packet Sniffer		
Make Supout.nf	2 Ping		
New WinBox	Ping Speed		
Exact Sector	Profile		
	RoMON		
	SMS		
	Teinet		
	Torch		
	Iraceroute		
	Traffic Generator		
	Traffic Monitor		
	WoL		

در قسمت Ping To آدرس IP رادیو AP را وارد کنید و روی دکمه Start کلیک کنید. در صورت مشاهده خط های

sion second basiloodid		
Safe Mode Session: 48:8F:5A:EC:9B:2A		
A Quick Set		
I CAPSMAN		
interfaces		
I Wireless	Rina (Punaina)	
Bridge		
	General Advanced 2 Start	
學 Switch	Ping To: 192.168.10.2 Stop	
Mesh D	Interface:	
	ARP Prog	
Parties	Packet Count:	
Sustem N	Terret 1000	
Current 1	Imeout. 1000 ms	
Elec		
	Seq # / Host Time Reply Size TTL Status ▼	
A RADIUS	0 192.168.10.2 Oms 50 64	
Y Tools	2 192 168 10 2 0ms 50 64	
New Terminal	3 192.168.10.2 Oms 50 64	
<pre>ele Dot1X</pre>	4 192.168.10.2 Oms 50 64	
MetaROUTER		
Partition		
Make Supout if		
New WinBox		
Exit		