Hi! This document is rough, I am fairly sure it's accurate. I hope it works for you. IF you have questions, you can email me. (Bottom of the document).

Start by connecting a cable to the TP-Link Router to your laptop. Turn off all Wi-Fi connections and allow your PC to get an IP address from the TP-Link. Make sure the switch on the side is set to WISP.

6			★ 2 ⁻¹ af 12% ☐ 08:4
TL-MR304D	×		
o ← → c	172.18.0.1:8080	i,	☆ ♥ :
TP-LIN	K,		Portable Battery Powered 3G/4G Wireless N Router Model No. TL-MR3040
Status			
Quick Setup	Status		Status Help
WPS			The Status page displays the Router's current status and configuration All information
Network	Firmware Version:	3.17.1 Build 131121 Rel.62425n	read only.
Wireless	Hardware Version:	MR3040 v2 0000000	LAN - The following parameters apply to the
DHCP			them in the Network -> LAN page.
Forwarding			MAC Address - The physical address
Security	LAN		of the Router, as seen from the LAN. • IP Address - The LAN IP address -
Parental Control	MAC Address:	C4-E9-84-3A-C8-EC	the Router.
Access Control	IP Address:	172.18.0.1	associated with LAN IP address.
Advanced Routing	Subnet Mask:	255,255,255.0	Wireless - These are the current settings
IR & MAC Rinding			them in the Wireless -> Wireless Setting
Dynamic DNS	Wireless		page,
System Tools	Windows Parties	T	 Wireless Radio - Indicates whethe the wireless radio feature of the
be any with a new a	Wireless Radio:	Enable	Router is enabled or disabled. Name(SSID) - The SSID of the Router
	Name (SSID):	PORTASHARK	Channel The current wireless
	Channel:	4	Mode - The current wireless mod
	Mode	11bgn mixed	 which the Router works on. Channel Width - The bandwidth of the
	Channel Width:	Automatic	wireless channel. MAC Address - The obviousl address
	MAC Address:	C4-E9-84-3A-C8-EC	of the Routet, as seen from the WLA
			WAN - The following parameters apply to the WAN parts of the Bouter. You can configu

Determine the TP-Link address and browse to that page.

Then, choose the Network Tab and set an IP address that would not be used in most situations. I used 172.18.0.1 with a subnet 255.255.255.0.

D TL-MR304D	× 0 172 18.0 1 8080		\$\$™ ⊿ 9% 0 08:
TP-LIN	K,		Portable Battery Powered 3G/4G Wireless N Router Model No. TL-MR3040
Status Quick Setup WPS Network; - WAN - MAC Clone - LAN Wireless DHSCP Forwarding Security Parental Control Access Control Access Control Advanced Routing Bandwidth Control IP & MAC Binding Dynamic DNS System Tools	LAN MAC Address; IP Address; Subnet Mask:	C4-E9-84-3A-C8-EC 172 18.0.1 255 255 255 0 • Save	 LAN Help You can configure the IP parameters of LA on this page. MAC Address - The physical address of the LAN ports, as seen from the LAN. The value can not be changed. IP Address - Enter the IP address or your Device in dotted-decime notation (factory default 192.168.0.1). Subnet Mask - An address code the determines the size of the netword Usually it is 255.255.255.0. Note: 1 if you change the LAN IP address, you must use the new IP address to login to the Device. 2 if the new LAN IP address you get in on in the same subort with th previous one, the IP Address you and DMZ Host will not take effect unt they are reconfigured. Click the Save button to save your settings.

Save the changes and return to the new address in your browser.

Go to the wireless tab and change the AP Settings to whatever SSID you want to use. I used PORTASHARK .

			\$ \$ [™] 13% <u>0</u> 08:
TL-MR304D	×		
∆ ← → C	(i) 172.18.0.1:8080	1	☆ ♣
TP-LIN	¢	Portable B	attery Powered 3G/4G Wireless N Router Model No. TL-MR3040
	Wireless Setting	19	
Status			Wireless Settings Help
Quick Setup	Client Setting		Note: The operating distance or range of yo
WPS	chent betang	Midnete County	wireless connection varies significantly base
Network	SSID:	Midstate Guests	best results, place your Router.
WIRON IN THE REAL PROPERTY OF	BSSID:	74-35-25-70-89-08 Example 30-10-0F-11-2	Near the center of the area in whether th
Wireless Settings		Survey	 your wireless stations will operate. In an elevated location such as a hit
- Wireless Security	Key type:	WPA-PSK/WPA2-PSK *	shelf. Away from the potential sources
- Wareless MAC Filtering	WEP Index:	1 •	interference, such as PC
- Wireless Advanced	Auth type:	open •	With the Antenna in the uprig
• Wirelins Statistics	Password:	mids1100	 Away from large metal surfaces.
Forwarding			Note: Failure to follow these guidelines of
Security	8		result in significant performance degradati or inability to wirelessly connect to the Rout
Parental Control	AP Setting		SSID - The SSID of the AP your Bouter
Access Control	i we have a set of the	DODTACHADY	going to connect to as a client. You can all
Advanced Routing	LOCH SSID:	PORTASHARK	join.
Bandwidth Control		Enable Weeksa Koole Kadao	BSSID - The BSSID of the AP your Router
IP & MAC Binding		 Enable SSID Broadcast 	going to connect to as a client. You can al use the survey function to select the BSSID
Dynamic DNS		Disable Local Wireless Access	join.
System Tools	-		Survey - Click this button, you can search t
		Save	Key type - This option should be chose according to the AP's security configuration is recommended that the security (yoe is t

Make sure you set the Enable Wireless Router Radio and Enable SSID Broadcast.

Under Wireless Security, you can set up WPA2 Personal with a password. I use AES. And a password I can remember.

a			\$? [™]
D TL-MR3040	×		
∆ ← → C	172.18.0.1:8080		☆ ♥
TP-LINK	C	Portable Battery Po	wered 3G/4G Wireless N Router Model No. TL-MR3040
Status Quick Setup	Wireless Security		Wireless Security Help
WPS Network Wireless	Disable Security		You can select one of the following securi options: • Disable Security - The wirele security function can be enabled
- Wireless Settings - Wireless Bocurtty	WPA/WPA2 - Personal(R	disabled. If disabled, the wirel stations will be able to connect Router without encryption. It	
- Wireless MAC Filtering	Version:	choose one of following options	
- Wireless Advanced	Encryption:	enable security. WPA/WPA2 - Personal - Select W	
- Wireless Statistics	Password:	Käshradio	 based on pre-shared passphrase. WPA/WPA2 - Enterprise - Select W
DHCP		(You can enter ASCII characters between 8 and 63 or H	based on Radius Server.
Forwarding	Group Key Update Period:	0 Seconds (Keep It default if you a	Fach example option has its over colling
Security			described follows,
Parental Control	WPA/WPA2 - Enterprise		WPA/WPA2 - Personal
Access Control	Version:	Automatic •	Version - You can select one of follow
Advanced Routing	Encryption:	Automatic •	versions,
Bandwidth Control	Radius Server IP:		Automatic - Select WPA-Personal WDA2 December 4 address light
P & MAC Binding	Radius Port:	1812 (1-65535, 0 stands for default port 1813	on the wireless station's capab
Dynamic DNS	Radius Password		and request. WPA-Personal - Pre-shared key
System Tools	Group Key Update Period:	3D (in second, minimum is 30, 0 med	WPA. • WPA2-Personal - Pre-shared key WPA2.
	The Courses		Encryption - You can select either Automa

Don't forget to hit Save. And of course it will have to reboot.

Log back into the router and under Security / remote management make sure you have a port and you know what it is.



The default port is 8080, and I allow all IP's to manage it. It's okay this way, but if you want to be more secure, that's up to you.

Unplug the Network Cable from your Computer and restore the wireless radio on your Computer.

Log into the router using the wireless access point at the ip address :8080

(EX http://172.18.0.1:8080)

Plug the OpenSpot into the Network Jack of the router. Turn it on.

Navigate to the DHCP tab on the router. Go to the clients list.

2 ← → c	① 172.18.0.1:8080		Po	rtable Rattery i	☆ 🌵
Status Quick Setup WPS Network Wireless DHCP - DHCP Settings - OHCP Chemts List - Address Reservation	DHCP Clients List D Client Name 1 Portable 2 android-ee22ea6a376d2b36 3 Unknown	MAC Address FE:28-50-FB:24-B9 80-1A-8F-64-47-6E 3E-CE-61-8F-1A-5F	Assigned IP 172.18.0.2 172.18.0.100 172.18.0.101	Lease Time Permanent 01:17:01 02:00:00	OWARDED SIGNARS WITCHESS IN ROUTER Model No. TL-MAR3040
Security Security Parental Control Access Control Advanced Routing Bandwidth Control IP & MAC Binding Dynamic DNS System Tools	R	efresh			You cannot change any of the values on page. To update this page and to show current connected devices, click on Refresh button.

Whatever the host name of the OpenSpot is, will be shown with an IP Address that has been issued by the router. I like to leave the OpenSpot in DHCP and just put the MAC in the reservation list. Make a note of the MAC address in the duck clients and we will put it in the reservation list.

Navigate to the address reservation menu and enter the MAC Address from the previous step. I like to use the address one up from the router. I can remember it easier. Whatever you decided to do, just make sure it's out of the range that the Router Delivers automatically.



Save it, reboot the OpenSpot. After it comes to life, make sure the DHCP clients list shows the OpenSpot.

Power down the Router with the power switch.

Plug the OpenSpot into the USB port of the Router and turn it back on.

I use my Android Tablet and Phone to connect to the router and the OpenSpot. It works perfectly. I saved a shortcut on my desktop for the router, and the OpenSpot.



Now, let's log back into the Router and link our wireless network to it.

				* 🌮 📶 29% 🗋 09:41
🗋 TL-MR3040	×			
∆ ← → ℃	172.18.0.1:8080	-		☆ ♥ :
TP-LIN	¢		Portable Battery F	owered 3G/4G Wireless N Router Model No. TL-MR3040
Status Dulek Setue	Wirelass Satting			Wireless Settings Help
WPS	whereas setting			Note: The operating distance or range of your
Network	Client Setting			on the physical placement of the Router. For best results, place your Router.
- Windows Settings	SSID:	Midstate Guests		Near the center of the area in which
- Wireless Security	BSSID:	74-3E-2B-70-89-08	Example:00-10-0F-11-22-33	your wireless stations will operate. In an elevated location such as a high
- Wireless MAC Filtering		Survey		shelf.
- Wireless Advanced	Key type:	WPA-PSK/WPA2-PSK	•	interference, such as PCs,
- Wireless Statistics	WEP Index:	1		With the Antenna in the upright
DHCP	Auth type:	open		 Away from large metal surfaces.
Forwarding	Pasaword	mids1100		Note: Failure to follow these guidelines can
Security	A 44444 4444	1.1.2.2.2.2.1.2.2		result in significant performance degradation
Parental Control				SSID . The SSID of the AD wort Douter in
Access Control	2			going to connect to as a client. You can also
Advanced Routing	AP Setting			join.
Bandwidth Control	Local SSID:	PORTASHARK		BSSID - The BSSID of the AP your Router is
IP & MAC Binding		👔 Enable Wireless Router R	adio	going to connect to as a client. You can also use the survey function to select the BSSID to
Dynamic DNS		😧 Enable SSID Broadcast		join.
System Tools		Disable Local Wireless Ac	zess	Survey - Click this button, you can search the APs.
		Paux		Key type - This option should be chosen according to the AP's security configuration.It

Under wireless networks / Wireless Settings, click on the Survey Button:

The following screen will pop up...

								* 😤 💷 📶 30% 🗋 09:47
TL-MR3040	×							
∆ ← → c	172	2,18.0.1:8080						☆ ↓ :
TP-LIN	к.				-	Portab	le Battery f	Powered 3G/4G Wireless N Router
Status					_	_	_	Model No. 1L-MR3040
Quick Setup	AP Cou	ant: 24		-		-		Wlan Site Survey Help
WPS	ID BSS	SID	SSID	Signal	Channel	Security	Choose	Note The informations of APs which you
Network	1 10-6	99-C4-67-D3-D9		34dB	1	ON	Connect	could connect to are shown on this page.U
Wireless	2 10-8	89-C4-E7-D3-D8	NEG AV	34dB	1	ON	Connect	HS IDION:
- Wireless Settings	3 10-6	89-C4-67-D3-D8	NFG Boant	34dB	1	ON	Connect	 First, find the line where the network you want to connect lay on.
- Wireless Security	4 10-6	89-C4-A7-D3-D9	NFG Guest	33dB	1	OFF	Connect	 Then, click the hyperlink "Connect" a the end of that line
- Wireless MAC Eiltering	5 10-6	89-C4-27-D3-D8	NFGI	33dB	1	ON	Connect	 Now, the target network's SSID is fille
- Wireless Advanced	6 10-8	89-C4-A7-D3-D8	WMC8	33dB	1	ON	Connect	in the correct place on the Wan confi page automatically.
- Wirelass Statistics	7 10-8	89-C4-27-D3-D9	WMC8 EXT	35dB	1	ON	Connect	Note: click the Refresh button to update th
Disco	8 743	3E-2B-30-89-08		7dB	4	ON	Connect	AP list.
Encountries .	9 74-3	3E-2B-FO-89-08		7dB	4	ON	Connect	click the Back button to return Wlan confi
Paravalla	10 74-3	3E-2B-30-89-09	GP Team	7dB	4	ON	Connect	page.
Becomy	11 74-3	3E-2B-70-89-08	Midstate Guests	8dB	4	ON	Connect	
Parental Control	12 74-3	3E-2B-80-89-08	MidstateWireless	7dB	4	ON	Connect	
Access Control	13 74-3	3E-2B-30-94-88		57dB	7	ON	Connect	
Advanced Routing	14 74-3	3E-2B-F0-94-88	36	58dB	7	ON	Connect	
Banowidth Control	15 74-3	3E-2B-30-94-89	GP Team	58dB	7	ON	Connect	
IP & MAC Binding	16 74-3	3E-2B-70-94-88	Midstate Guests	59d8	2	ON	Connect	
Dynamie DNS	17 74-3	9E-2B-80-94-88	MidstateWireless	60dB	7	ON	Connect	
System Tools	18 10-6	89-C4-68-38-79		38dB	10	ON	Connect	
	19 10-8	89-C4-E8-38-78	NEG AV	37dB	10	ON	Connect	
	20 10-8	89-C4-68-38-78	NFG Boant	3BdB	10	ON	Connect	

Connect to the Access Point you want to use by clicking on the "Connect" under the choose column.

				\$ 😤 🐨 📶 31% 🗋 09:5
TL-MR3040	×			
o ← → c	172.18.0.1:8080	i i		☆ ♥ :
TP-LIN	«		Portable Battery P	Yowered 3G/4G Wireless N Router Model No. TL-1683640
Status				
Quick Setup	Wireless Setting	ja l		Wireless Settings Help
WPS				Note: The operating distance or range of yo
Network	Client Setting			on the physical placement of the Router. F
Wireless	onent setting	ARIES AND A		best results, place your Router.
- Wireless Settings	SSID:	Midstate Guests		 Near the center of the area in white your wireless stations will operate.
- Wireless Security	BSSID:	74-3E-2B-70-89-08	Example:00-10-0F-11-22-33	 In an elevated location such as a hi shelf
- Wireless MAC Filtering		Survey		Away from the potential sources
- Wireless Advanced	Key type:	WPA-PSK/WPA2-PSK		microwaves, and cordless phones.
- Wireless Statistics	WEP Index:	1	•	 With the Antenna in the up position.
DHCP	Auth type:	open	*	Away from large metal surfaces.
Forwarding	Pasaword:	mids1100		Note: Failure to follow these guidelines o
Security				or inability to wirelessly connect to the Rout
Parentel Control				SSID - The SSID of the AP your Router
Access Control	AP Setting		77	going to connect to as a client. You can all use the search function to select the SSID
Revenued Routing	Ar Setting	CONTRACTOR		join.
IR & MAC Bindian	Local SSID:	PURTASHARK	252	BSSID - The BSSID of the AP your Router going to connect to as a client You can al
Dynamic DNS		Enable Wireless Router	use the survey function to select the BSSID	
System Tools		 Enable SSID Broadcast 		Renner - Click this hatter you are access
		Disable Local Wireless	Access	APa.
	2	in the second second		Key type - This option should be chose according to the AP's security configuration

Make sure, if the Access Point has a password, you fill that in, in the password field

When you save it, it will ask you to reboot. It will offer a link to do so.

Notice when you reboot the router, the OpenSpot will reboot too!

After the reboot, log back in and let's check our status.

Scroll to the bottom of the home page, under the WAN section, you should have something similar to this.

D TL-MR3040	×			
∆ ← → c	172.18.0.1.8060	Í.		☆ ♥ :
TP-LIN	K.		Portable Bat	tery Powered 3G/4G Wireless N Router Model No. 71-MR3640
1	Name (SSID):	PORTASHARK		
Status	Channel:	4		
Quick Setup	Mode:	11bgn mixed		Status Help
WPS	Channel Width:	Automatic		The Status page displays the Router's curre
Network	MAC Address:	C4-E9-84-3A-C8-EC		status and configuration. All information read-only.
Wireless				LAN - The following parameters apply to th
DHCP				LAN port of the Router. You can configu
Forwarding	WAN			them in the Network -> LAN page.
Security	MAC Address:	C4-E9-84-3A-C8-ED		 MAC Address - The physical addre of the Router, as seen from the LAN.
Parental Control	IP Address:	192.168.0.178	Dynamic IP	IP Address - The LAN IP address the Router
Access Control	Subnet Mask:	255.255.255.0		Subnet Mask - The subnet ma
Advanced Routing	Defauit Gateway:	192.168.0.1	Release	associated with LAN IP address.
Bandwidth Control	DNS Server:	192.168.0.1.8.8.8.8		information for Wireless.You can configu
IP & MAC Binding				them in the Wireless -> Wireless Setting
Dynamic DNS	Et and the second second	4		Wireless Radio - Indicates wheth
System Tools	Traffic Statistics	5		the wireless radio feature of th
		Received	Sent	 Name(SSID) - The SSID of the Router
	Bytes:	1933314	4825297	 Channel - The current wireles channel in use.
	Packets:	11840	5080	 Mode - The current wireless mo which the Router works on. Channel Width - The bandwidth of t wireless channel.
	System Up Time:	0 days 00:20:58	Refresh	MAC Address - The physical addre of the Roufer, as seen from the WLA WAN - The following parameters apply to 1

There should be something in the WAN section.

Now you should be able to browse to the OpenSpot by going to the IP address you picked in the DHCP reservation above.

		≹ 😤 🖉 🚛 34% 🗋 10:01
D TL-MR3040	× openSPOT ×	
$\diamond \ \in \ \ni \ c$	172.18.0.2/openspot.html_gz#login	☆ ᢤ :
∡ openSP0	Г•	Portable
	A Shark R openSPO	F
	Password:	Login

17218.0.2

www.sharkrf.com

Advanced mode

Anytime you want to change WIFI Access Points, (Hotel Rooms, Buddy's Cell Phone, Work WIFI, just go back to the wireless settings and do another survey, connect to that WAN and off you go!

Questions? Email Sam... <u>sam.nabkey@gmail.com</u>.