How to setup up most routers to use with Raspberry Pi. We use an TP-Link WR940N router but this manual should work for almost any router.

- 1. Connect your laptop to the router with an LAN cable, you can use any of the four yellow/ orange ports. Don't use the blue (WAN) port this is for your internet connection.
- 2. You can acces most routers with your browser, type 192.168.0.1 and login with user: admin and use password: admin
- 3. If this doesn't work please refer to your routers manual to see how you can login in the router.

When connected and successful login make the following changes:

1. Setup your router as standard wireless router, save settings.

	450M Wireless N Router Model No. TL-WR940N	. 19 A.
Status		
WPS	Working Mode	Working Mode Help
Working Mode		Standard Wireless Router: In this mode, this double will only use WAN part to access Internet
Network	Standard Windows Routes	The inner hosts can access Internet via 4 LAN
Wireless	Stahoard Wireless Kouter	Access Point: In this mode this device can be
Guest Network	Access Point	connected to a wired network and transform the
DHCP	kange Extender	can share together, especially for a home, office
Forwarding		Range Extender: In this mode, this device can
Security	Save	copy and reinforce the existing wireless signal to extend the coverage of the signal, especially for a
Parental Control		large space to eliminate signal-blind corners.
Access Control		Be sure to click the Save button to save your settings on this page.
Advanced Routing		Note: The router will reboot automatically after
Bandwidth Control		you click the Save button.
IP & MAC Binding		
IPv6 Support		
System Tools		
Logout		
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2. Under Network go to LAN and set the IP address to: 192.168.200.1 and select Subnetmask 255.255.255.0 and save settings.

	450M Wireless N Router Model No. TL-WR340N	
Status		
Quick Setup		LAN Help
WPS	LAIN	You can configure the IP parameters of LAN on
Working Mode		this page.
Network	MAC Address: B4-80-24-65-4D-AC	 MAC Address - The physical address of the LAN ports, as seen from the LAN. The
- WAN	IP Address: 192.168.200.1	value cannot be changed. • IP Address - Enter the IP address of your
- LAN	Subnet Mask: 255.255.0 6	Router in dotted-decimal notation (factory default - 192.168.0.1).
- IPTV		 Subnet Mask - An address code that determines the size of the network
Wireless	Save	Usually it is 255.255.255.0.
Guest Network		Note:
DHCP		 If you change the LAN IP address, you must use the new IP address to login to
Forwarding		the Router. 2. If the new LAN IP address you set is not
Security		in the same subnet with the previous one, the IP Address pool in the DHCP server
Parental Control		will be configured automatically, but the Virtual Server and DMZ Host will not take
Access Control		effect until they are re-configured
Advanced Routing		Click the Save button to save your settings.
Bandwidth Control		
IP & MAC Binding		
Dynamic DNS		
IPv6 Support		
System loois		
Logout		

- 3. Go to DHCP settings and setup the following:
- Start IP address: 192.168.200.100
- End IP adress: 192.168.200.199
- Default gateway: 192.168.200.1

	450M Wireless N Router Model No. TL-WR840N	
Status		
Quick Setup		DHCP Settings Help
WPS	DHCP Settings	This device is set up by default as a DHCD
Working Mode		(Dynamic Host Configuration Protocol) server,
Network	DHCP Server: Disable Enable	the PCs that are connected to this device in the
Wireless	Start IP Address: 192.168.200.100	LAN
Guest Network	End IP Address: 192.168.200.199	 DHCP Server - Enable or Disable the server. If you disable the Server, you must
DHCP	Address Lease Time: 1 minutes (1-2880 minutes, the default value is 120 min)	have another DHCP server within your network or else you must configure the IP
- DHCP Settings	Default Gateway: 192.168.200.1 (Optional)	 address of the computer manually. Start IP Address - This field specifies the
- DHCP Client List	Default Domain: (Optional)	first address in the IP Address pool. 192,168,0,100 is the default start IP
- Address Reservation	Primary DNS: 0.0.0 (Optimal)	 address. End IP Address - This field specifies the
Forwarding	Frankers Direction (Constraint)	last address in the IP Address pool.
Becontal Control		address Losso Time - The Address
Access Control		Lease Time is the length of time a
Advanced Routing	Save	connecting to this device with the current
Bandwidth Control		in minutes, that the DHCP address will be
IP & MAC Binding		minutes. The default value is 120
Dynamic DNS		 Default Gateway - (Optional) Suggest to
IPv6 Support		input the IP Address of the LAN port of this device. The default value is
System Tools		 Default Domain - (Optional) Input the
Logout		 domain name of your network. Primary DNS - (Optional) Input the DNS
		IP address provided by your ISP. Or consult your ISP.
		 Secondary DNS - (Optional) You can input the IP Address of another DNS
		server if your ISP provides two DNS
		Note: To use the DHCP server function of this
		device, you should configure all computers in the LAN as "Obtain an IP Address automatically" mode. This function will take effect until this
		device reboots.
		Click Save to save the changes.

4. Don't forget to save settings and reboot your router!

You also can change the SSID of your WiFi network:

1. Go to Wireless settings and change the Wireless Network Name to any name your like

	450M Wireless N Router Model No. TL-WR940N	
Status		
Quick Setup		Wireless Settings Help
WPS	Wireless Settings	Note: The exercise distance of some
Working Mode		wireless connection varies significantly based on
Network	Wireless Network Name: notaumatic-router (Also called the SSID) Sharing Network	the physical placement of the Router. For best results, place your Router.
Wireless		Near the center of the area in which your
- Wireless Settings	Mode: 11bgn mixed 🗧	 In an elevated location such as a high
- Wireless Security	Channel Width: Auto	 Away from the potential sources of
- Wireless MAC Filtering	Channel: Auto	interference, such as PCs, microwaves, and cordless phones.
- Wireless Advanced		 With the Antenna in the upright position. Away from large metal surfaces.
Guest Network		Note: Failure to follow these guidelines can result
DHCP	C Frahle Wireless Router Radio	in significant performance degradation or inability to wirelessly connect to the Router.
Forwarding		Wireless Network Name - Enter a value of up to
Security		32 characters. The same Name (SSID) must be assigned to all wireless devices in your network.
Parental Control	Linkue HOU Singing	Mode - Select transmission mode according to
Access Control		your wireless devices.
Advanced Routing	Save	Channel Width - The bandwidth of the wireless channel.
Bandwidth Control		Channel - This field determines which operating
IP & MAC Binding		frequency will be used. It is not necessary to change the wireless channel unless you notice
Dynamic DNS		interference problems with another nearby access point. If you select auto, then AP will
IPv6 Support		choose the best channel automatically.
System Tools		Enable Wireless Router Radio - The wireless radio of the Router can be enabled or disabled to
Logout		allow wireless stations access. If enabled, the wireless stations will be able to access the Router. Otherwise, wireless stations will not be able to access the Router.
		Enable SSID Broadcast - If you select the Enable SSID Broadcast checkbox, the wireless router will broadcast its name (SSID) on the air.
		Enable WDS Bridging - You can select this to enable WDS Bridging, with this function, the Router can bridge two or more WLANs. NOTE: if this checkbox is selected, you had better make sure the following settings are correct.
		SSID (to be bridged) - The SSID of the AP your Router is going to connect to as a client. You can also use the survey function to select the SSID to join.
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2. Go to Wireless security settings and change the Wireless password to whatever suits you.

	450M Wireless N Router Model No. TL-WR940N		a da da serie
Status			
Quick Setup			Wireless Security Help
WPS	Wireless Security		You can called one of the following convict
Working Mode			options:
Network	 Disable Security 		Disable Security - The wireless security
Wireless	-		disabled, the wireless stations will be able
- Wireless Settings	WPA/WPA2 - Personal/Personanded)		to connect this device without encryption. It is recommended strongly that you
- Wireless Security			choose one of following options to enable security.
- Wireless MAC Filtering	Verson.		 WPA/WPA2 - Personal - Select WPA based on pre-shared passphrase.
- Wireless Advanced	Encryption:	AES	 WPA/WPA2 - Enterprise - Select WPA based on Radius Server.
Guest Network	Wireless Password:	citamuaton	 WEP - Select 802.11 WEP security.
DHCP		(You can enter ASCII characters between 8 and 63 or Hexadecimal characters between 8 and 64.)	Each security option has its own settings as described follows
Ecowarding	Group Key Update Period:	0 Seconds	WPA/WPA2 - Personal
Security		(Keep it default if you are not sure, minimum is 30, 0 means no update)	Version - You can select one of following
Parental Control	WPA/WPA2 - Enterprise		versions,
Access Control	Version:	Automatic 3	 Automatic - Select WPA-PSK or WPA2- PSK automatically based on the wireless
Advanced Routing	Encryption:	Automatic 3	station's capability and request.
Bandwidth Control	Radius Server IP:		 WPA2-PSK - Pre-shared key of WPA2.
IP & MAC Binding	Radius Port:	1812 (1-65535, 0 stands for default port 1812)	Encryption - You can select either Automatic, or TKIP or AES
Dynamic DNS	Radius Password:		Wireless Password - You can enter ASCII or
IPv6 Support	Group Key Update Period:	0 (in second, minimum is 30, 0 means no update)	Hexadecimal characters. For Hexadecimal, the
System Tools	⊖ WEP		for ASCII, the length should be between 8 and 63 characters
Logout	Type:	Automatic	Group Key Update Period - Specify the group
	WED Key Format	Heverdenized (key update interval in seconds. The value can be either 0 or at least 30. Enter 0 to disable the
	Key Colorian		update.
	Key delected	WEF Ney Key Igpe	WPA/WPA2 - Enterprise
	Key 1: •		Version - You can select one of following versions
	Key 2:	Disabled 🖸	Automatic - Select WPA or WPA2
	Key 3: 🔿	Disabled 😏	automatically based on the wireless
	Key 4: 🔿	Disabled 🚦	WPA - Wi-Fi Protected Access. WPA2 - WPA version 2.
		Caue	Encryption - You can select either Automatic, or TKIP or AES.

- 3. Save settings and reboot your router.
- 4. Disconnect the LAN cable on your laptop and put it in the LAN port on the Raspberry.
- 5. You now should have an working router to verify this:
- Connect your laptop to the WiFi network.
- If connected go to your browser and browse to: 192.168.200.200
- You should see your Notaumatic login screen.