




Configuring a TPLINK Router

TP Link C50/C2/C20/C20i Basic Configuration Steps

Configuring Your Router

STEP 1 (a): Connect Your PC to the Router

- Unbox the router and power up the router.
- Connect the Act internet cable to the WAN/Internet port(different coloured port) of the router.
- An extra LAN cable will be available with the router, take LAN cable connect one end to the LAN port(1-4) of the router(any one port) and one end to the PC or Laptop.
- In the system press  key & R key together  +  to open Run dialog box.
- Type ipconfig on the command prompt(Black screen) . The default gateway of the LAN or Ethernet adapter will be the Router address. (Ex:192.168.0.1)

```
C:\Users\USER>ipconfig
Windows IP Configuration

Wireless LAN adapter Wireless Network Connection:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix . : ATRIA

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix . :
    IPv4 Address. . . . . : 192.168.1.101
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.1.1
```



STEP 1 (b): Connect Your Mobile

- Switch on the router and connect ACT internet cable to the WAN/Internet port of the router
- Go to setting in the Mobile, turn on Wi-Fi and wait until the mobile detects router name press the router name to connect.
- If the router is already configured and the Wi-Fi password is known then go to settings in the Mobile
- Under “Wireless and Networks”, press Wi-Fi make sure "Wi-Fi" is turned on.
- Wait until the mobile detects router name press the router name if prompted enter the Wi-Fi password and press Connect.

NOTE

- Every Router Configuration has two parts
 - Configuring the Internet Part, where we tell the Router how to connect to the internet.
 - Configuring the Wi-Fi Part, where we decide the name and password with which we connect to the Router
- Internet Configuration shown here will guide to Configure the Router in PPPoE.
 - This will enable you to browse internet directly, every time you connect to the router. No need to login again and again.
- Wi-Fi Configuration has also been given, in order to ease the process of you connecting to the Router
 - SSID and Password Creation have been explained\
 - Few high end routers have two bands to work on – 2.4 GHz and 5 GHz
 - 2.4 GHz band provides higher range, but lesser speed.
 - 5 GHz band provides lower range, but higher speed.
 - Changing Different Wi-Fi Channels – Helps in reducing Slow Speed Issues.

STEP 2: Logging into the Router

- Open a browser → Enter the below IP Address in the Address Bar. A login page appears. The usual usernames and passwords are given in the table below.

Router Name	IP Address	Username	Password
Cisco or Linksys	192.168.1.1	admin	admin
D-Link	192.168.0.1	admin	(blank)
TP-Link	192.168.0.1	admin	admin
Net gear	192.168.1.1	admin	password
Belkin	192.168.2.1	Click on Login in Home	(blank)
Tenda	192.168.0.1	admin	admin
i-Ball Baton	192.168.1.1	admin	admin
Digisol	192.168.2.1	admin	1234 or admin
Asus	192.168.1.1	admin	admin

- If all the above credentials do not work, please check the back of the router where the username and password will be mentioned.

STEP 3: Internet Connectivity – PPPoE Configuration

Step 1 : Open any web browser

Step 2 : Type Router page address on the address bar(192.168.0.1)

Step 3 : Login with credentials

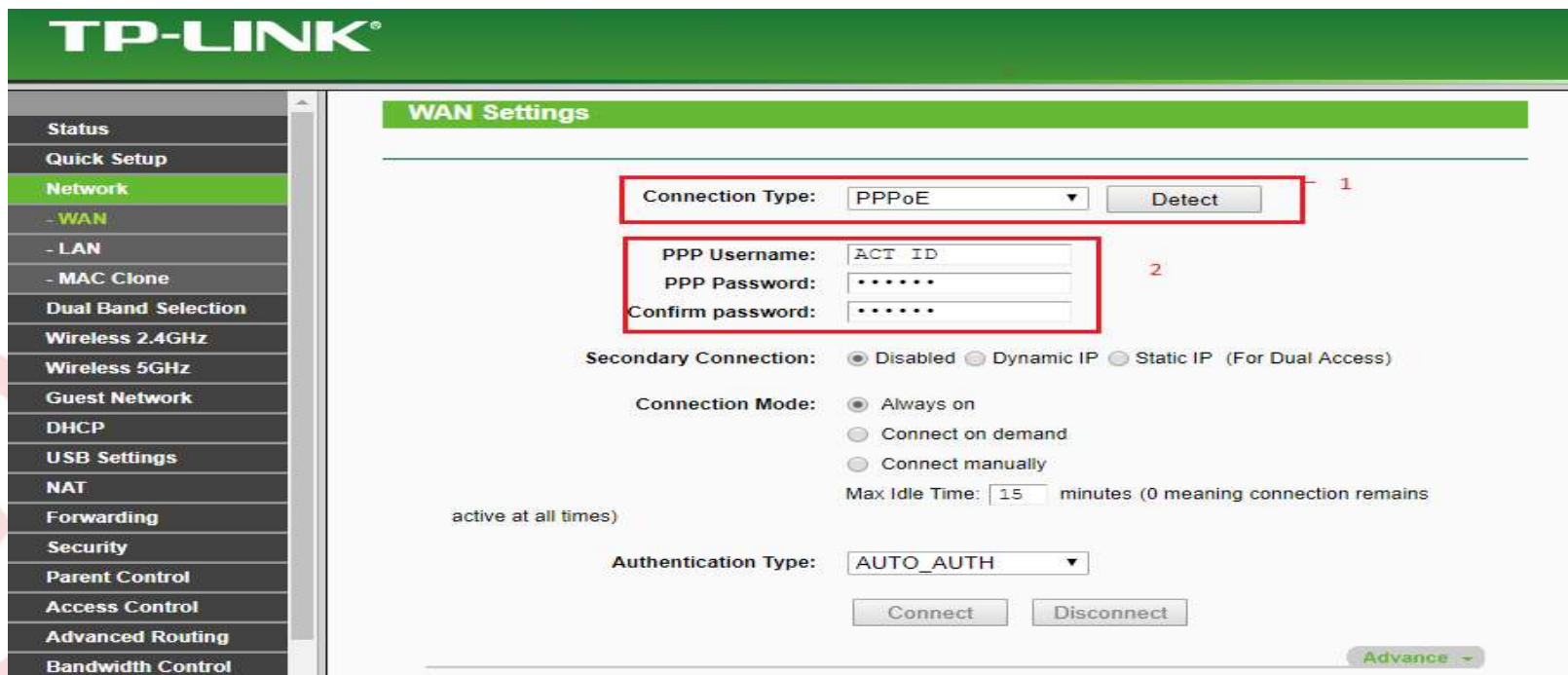


STEP 3: Internet Connectivity – PPPoE Configuration

Step 1: Enter the portal username in the PPPoE username field

Step 2: Enter the portal password in the PPPoE password

Step 3: Click on ok



The screenshot shows the TP-LINK WAN Settings page. The left sidebar contains a navigation menu with the following items: Status, Quick Setup, Network (highlighted), - WAN, - LAN, - MAC Clone, Dual Band Selection, Wireless 2.4GHz, Wireless 5GHz, Guest Network, DHCP, USB Settings, NAT, Forwarding, Security, Parent Control, Access Control, Advanced Routing, and Bandwidth Control. The main content area is titled "WAN Settings" and contains the following configuration options:

- Connection Type:** A dropdown menu set to "PPPoE" and a "Detect" button. A red box highlights this section with the number "1" to its right.
- PPP Username:** A text input field containing "ACT ID".
- PPP Password:** A password input field with six dots.
- Confirm password:** A password input field with six dots. A red box highlights these three fields with the number "2" to its right.
- Secondary Connection:** Radio buttons for "Disabled" (selected), "Dynamic IP", and "Static IP (For Dual Access)".
- Connection Mode:** Radio buttons for "Always on" (selected), "Connect on demand", and "Connect manually".
- Max Idle Time:** A numeric input field set to "15" minutes, with a note "(0 meaning connection remains active at all times)".
- Authentication Type:** A dropdown menu set to "AUTO_AUTH".
- Buttons for "Connect" and "Disconnect".
- An "Advance" button with a dropdown arrow at the bottom right.

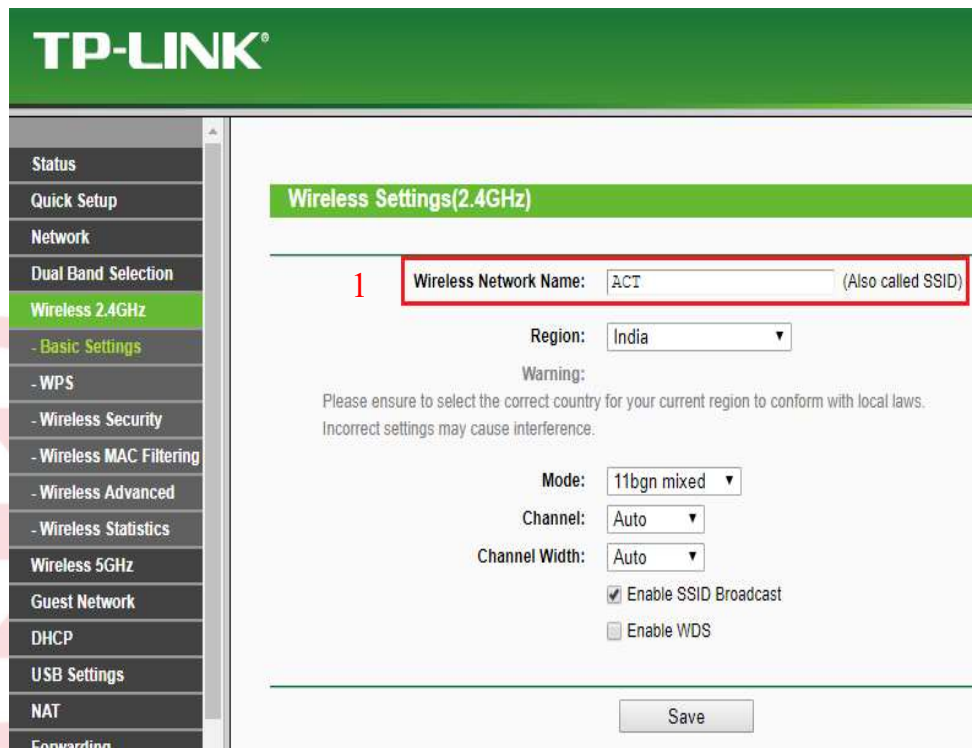
STEP 4(a): Wi-Fi Connectivity – Router SSID/Password Configuration

Step 1: Type in your preferred Wi-Fi name in SSID(Network name dialog box) and give different name

for both 2.4Ghz & 5Ghz.

Step 2: All the remaining field are set by default

Step 3: click on ok



TP-LINK

Status
Quick Setup
Network
Dual Band Selection
Wireless 2.4GHz
- Basic Settings
- WPS
- Wireless Security
- Wireless MAC Filtering
- Wireless Advanced
- Wireless Statistics
Wireless 5GHz
Guest Network
DHCP
USB Settings
NAT
Forwarding

Wireless Settings(2.4GHz)

1 Wireless Network Name: ACT (Also called SSID)

Region: India

Warning:
Please ensure to select the correct country for your current region to conform with local laws.
Incorrect settings may cause interference.

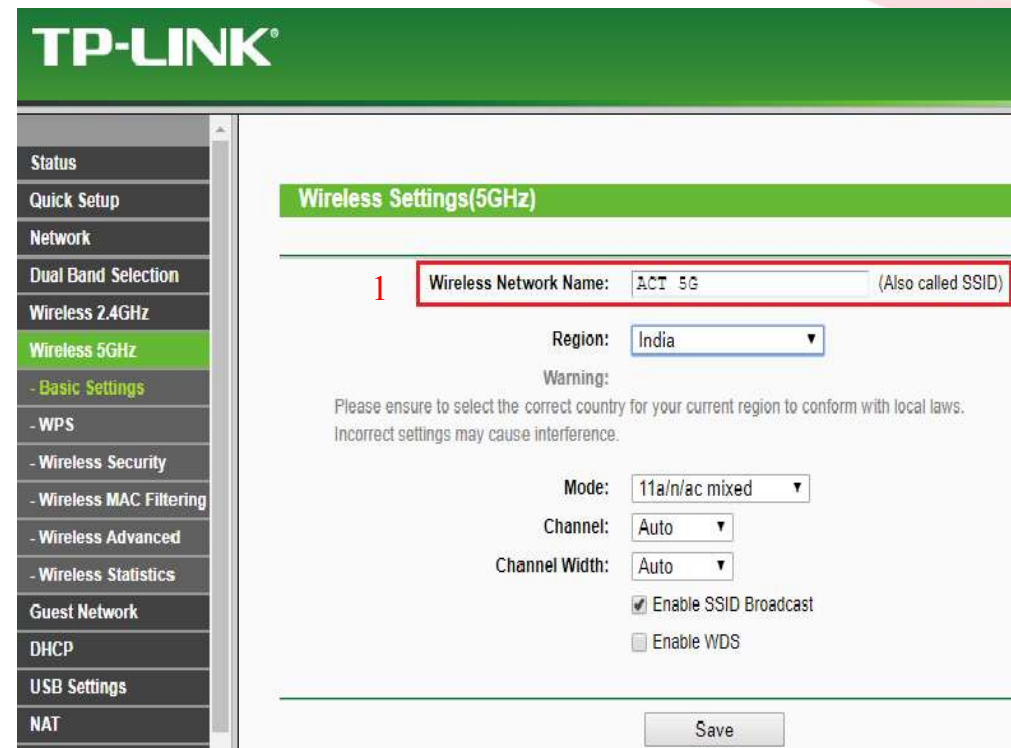
Mode: 11bgn mixed

Channel: Auto

Channel Width: Auto

Enable SSID Broadcast
 Enable WDS

Save



TP-LINK

Status
Quick Setup
Network
Dual Band Selection
Wireless 2.4GHz
Wireless 5GHz
- Basic Settings
- WPS
- Wireless Security
- Wireless MAC Filtering
- Wireless Advanced
- Wireless Statistics
Guest Network
DHCP
USB Settings
NAT

Wireless Settings(5GHz)

1 Wireless Network Name: ACT 5G (Also called SSID)

Region: India

Warning:
Please ensure to select the correct country for your current region to conform with local laws.
Incorrect settings may cause interference.

Mode: 11a/n/ac mixed

Channel: Auto

Channel Width: Auto

Enable SSID Broadcast
 Enable WDS

Save

STEP 4(b): Wi-Fi Connectivity –Password Configuration

Step 1: Click on security mode dialog box and select WPA2–PSK(Recommended).

Step 2: Click on AES(Recommended) & type in your desired password.

Step 3: To configure a wireless Password

Step 4: Click OK

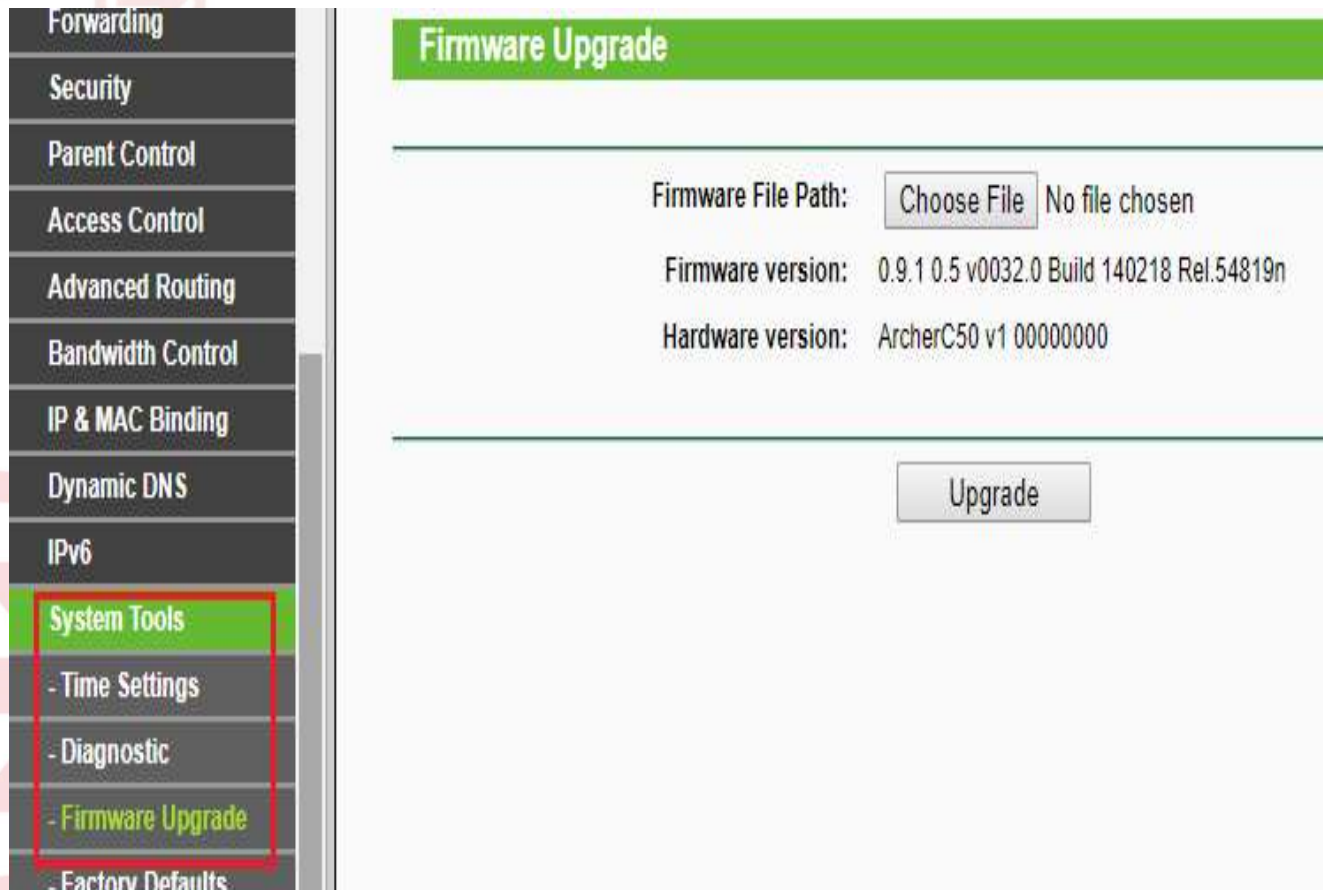


The screenshot shows the TP-LINK web interface for configuring wireless security. The left sidebar contains a navigation menu with the following items: Status, Quick Setup, Network, Dual Band Selection, Wireless 2.4GHz, Wireless 5GHz, - Basic Settings, - WPS, - **Wireless Security** (highlighted with a red box), - Wireless MAC Filtering, - Wireless Advanced, - Wireless Statistics, Guest Network, and DHCP. The main content area is titled "Wireless Security Settings" and contains the following information:

- Note: WEP security, WPA/WPA2-Enterprise authentication and TKIP encryption are not supported with WPS enabled.
- Note: WEP encryption are not supported with Guest Network enabled.
- For network security, it is strongly recommended to enable wireless security and use WPA-PSK AES encryption.
- Radio button selection:
 - Disable Wireless Security
 - WPA/WPA2 - Personal(Recommended)** (highlighted with a red box and labeled with a red '1')
- Authentication Type: WPA2-PSK (dropdown menu)
- Encryption: AES (dropdown menu)
- Wireless Password: 12345678 (text input field, highlighted with a red box and labeled with a red '2')
- Group Key Update Period: 0 (text input field)

STEP 5 (As and when required): Firmware upgrade

System Tools > firmware upgrade > upload the new firmware file > upgrade firmware

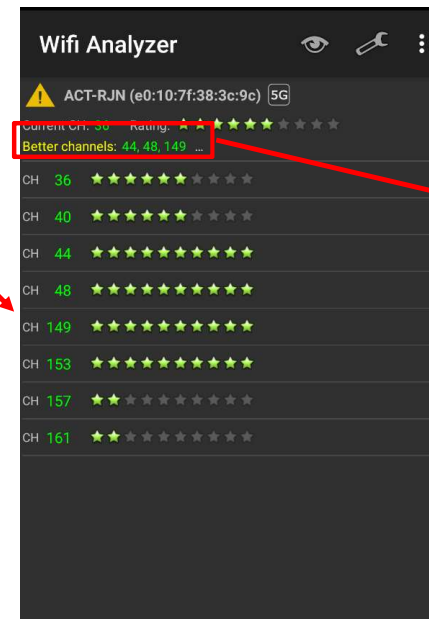
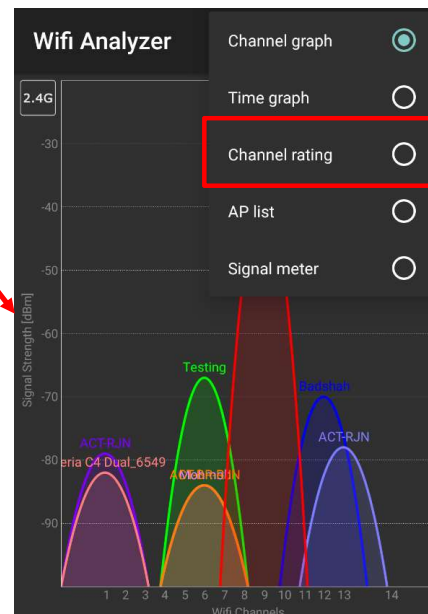
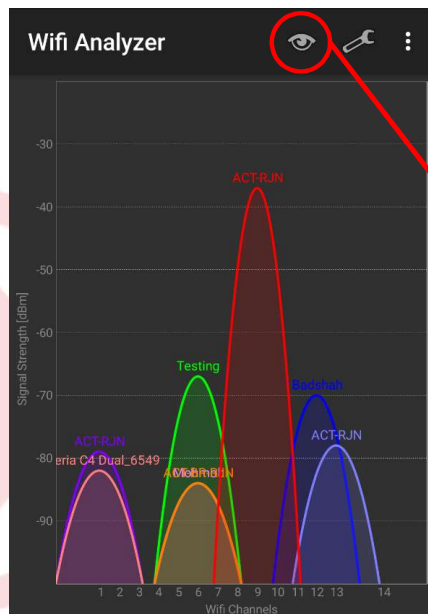


The screenshot shows the router's web interface. On the left is a navigation menu with the following items: Forwarding, Security, Parent Control, Access Control, Advanced Routing, Bandwidth Control, IP & MAC Binding, Dynamic DNS, IPv6, System Tools (highlighted in green), - Time Settings, - Diagnostic, - Firmware Upgrade (highlighted in green), and - Factory Defaults. The main content area is titled "Firmware Upgrade" in a green header. Below the header, there are three rows of information: "Firmware File Path:" with a "Choose File" button and the text "No file chosen"; "Firmware version:" with the value "0.9.1 0.5 v0032.0 Build 140218 Rel.54819n"; and "Hardware version:" with the value "ArcherC50 v1 00000000". At the bottom of the main content area is a large "Upgrade" button.

You can choose to download a Firmware version and then upload it offline or choose to download directly from internet itself.

STEP 6: Channel Change (As and when required)

- Channels are the mediums through which your router transmits signals to other devices.
- There are several channels that one can choose from, based on the Frequency at which your router works (Bands – 2.4 GHz) and the premises.
 - Step A: Download any Wi-Fi Analyzer software from Internet (It is a Freeware).
 - Step B: Choose to view different channels. We have provided an Example for better understanding.
 - Step C: Channel numbers for 2.4 GHz will be in the range of 1 to 14
 - Step D: Wi-Fi analyzer will show which channel is being utilized most and which one the least. Refer the example in the next slide. Choosing a channel with least utilization will give maximum advantage.



More Stars implies Lesser Utilization of Channel

Changes to be Made After Configuration

- If the Wi-Fi password is changed, we need to update the password in all the devices to get connected to the Internet.
- Changes in PC
 - **Windows 7:** Click on Windows button → click on Control Panel → click on Network and Internet → click on Network and Sharing Centre.
 - In the Tasks pane(Left side of screen), click Manage wireless networks
 - Right-click the router name → click Remove network → click on OK.
 - Click on Network icon(right bottom corner next to system Time), click on Router name and enter the new Wi-Fi password and Connect.

- Changes in PC

- **Win 8,8.1:** Click on Network icon(right bottom corner next to system Time), Right click on Router name click on “Forget this network”. Again click on Router name, enter the new Wi-Fi password and Connect.
- **Win 10:** Click on Network icon(right bottom corner next to system Time), click on Network settings under Wi-Fi click on Manage known Networks → Click on your Router name and Click on Forget, and again click on Network icon → click on Router name enter the new Wi-Fi password and Connect

- Mobile or Tablet

- Go to ‘Settings’ in Mobile, turn on Wi-Fi and long press on your Router name and press “Forget network”. Again press the router name. You will be prompted to enter the Wi-Fi password . Enter the Password and Connect.