

# How to set up WEP, WPA, WPA2 for Linksys router

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## How to set up WEP, WPA or WPA2 wireless security

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## Why should you set up security on your wireless router?

The various wireless security features of the router protect your network, against possible hacking cases. With these wireless security features, you can:

1. Ensure that no one can easily connect to your wireless network and use the Internet without any permission.
2. Personalize access for people who can configure your wireless settings.
3. Protect all data transmitted over the wireless network.

One method of security settings on your network is to set WEP, WPA or WPA2 as wireless security mode. To learn how to do this, follow the instructions below.

## Set up WEP, WPA or WPA2 personal wireless security on wireless router

### Step 1:

Access the router's web-based setup page by opening a web browser like Internet Explorer or Safari. In the address bar, enter the router's local IP address and press **Enter**. When the login prompt appears, enter the router's username and password.

**NOTE:** The default local IP address of the Linksys router is 192.168.1.1, and the default password is '**admin**' and the username field is blank.

**QUICK TIP :** If you have changed the username and password of the router, use that login instead. If you lose or forget them, you need to reset the router.

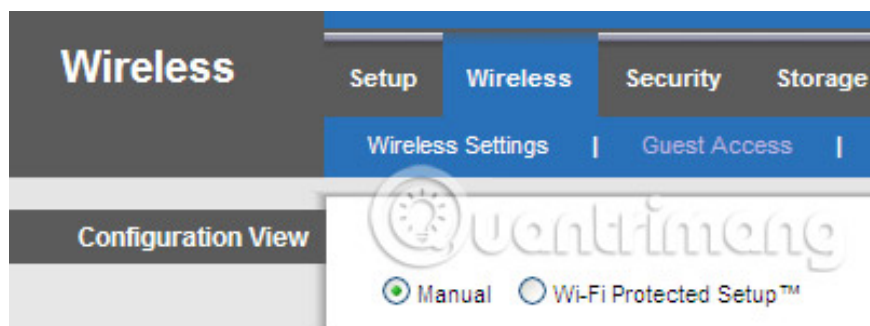
### Step 2:

Now, you will be redirected to the main screen of the setup page. On the settings page, click the **Wireless** tab , then click the sub-tab **Wireless Security**.

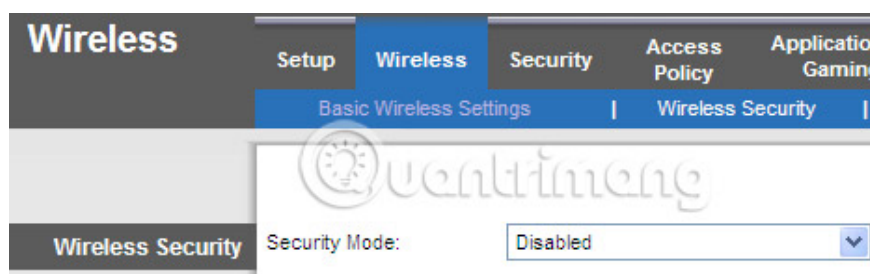


### Step 3:

On the **Configuration View** section , click the **Manual** button .



Other router models, especially older versions do not have the **Manual** option . In this case, you must scroll to the bottom of the page to find the **Wireless Security** section instead.



### Step 4:

Now, you can choose from 4 options.

Linksys router supports the four most commonly used wireless security modes you can choose: **WEP**, **WPA Personal**, **WPA2 Personal** and **WPA2 / WPA Mixed Mode** . Below is a detailed comparison table of different

types of security for your reference:

### Security mode Ranking Number of WEP characters

Wired Equivalent Protocol 40/64-bit Basic (10 characters)

128-bit (26 characters) **WPA Personal**

Wi-Fi Protected Access Personal Strong 8-63 **WPA2 Personal** characters

Wi-Fi Protected Access 2 Personal Most powerful 8-63 characters **WPA2 / WPA Mixed Mode** WPA2:  
Strongest

WPA: Strong 8-63 characters


WPA, WPA2 and WPA2 / WPA security modes are recommended higher than WEP. Follow the instructions below to know how to set up each security mode.

## WPA2 / WPA Mixed Mode

### Step 1:

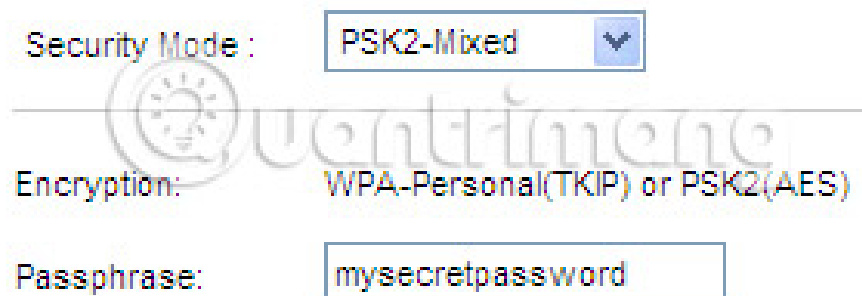
In the **Security Mode** field , select **Security Mode** and enter your password in the **Passphrase** field .

**NOTE:** Passphrase must include at least 8 characters and is case sensitive.



The image shows a 'Wireless Security' configuration window. On the left is a logo with a lightbulb and the word 'Quantimeng'. To the right, there are two fields: 'Security Mode:' with a dropdown menu set to 'WPA2/WPA Mixed Mode', and 'Passphrase:' with a text box containing 'mysecretpassword'.

WPA2 / WPA Mixed mode is also called **PSK2-Mixed** on some Linksys routers. Refer to the image below for an example.



The image shows a 'Wireless Security' configuration window. On the left is a logo with a lightbulb and the word 'Quantimeng'. To the right, there are three fields: 'Security Mode:' with a dropdown menu set to 'PSK2-Mixed', 'Encryption:' with a dropdown menu set to 'WPA-Personal(TKIP) or PSK2(AES)', and 'Passphrase:' with a text box containing 'mysecretpassword'.

### Step 2:

Click on the **Save Settings** button.

## WPA2 Personal

### Step 1:

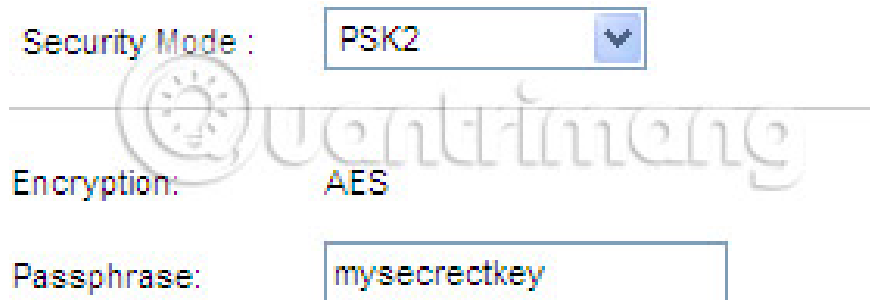
On the **Security Mode** field, select **WPA2 Personal** and enter your **passphrase** in the **Passphrase** field .

**NOTE:** The passphrase must contain at least 8 characters and is case sensitive.



The image shows a 'Wireless Security' configuration window. On the left is a logo with a lightbulb and the word 'Quantineng'. To the right, there are two fields: 'Security Mode:' with a dropdown menu set to 'WPA2 Personal', and 'Passphrase:' with a text box containing 'mysecretpassword'.

WPA2 Personal is also called **PSK2** on some Linksys routers. Refer to the image below for an example.



The image shows a 'Wireless Security' configuration window. On the left is a logo with a lightbulb and the word 'Quantineng'. To the right, there are three fields: 'Security Mode:' with a dropdown menu set to 'PSK2', 'Encryption:' with the text 'AES', and 'Passphrase:' with a text box containing 'mysecretkey'.

### Step 2:

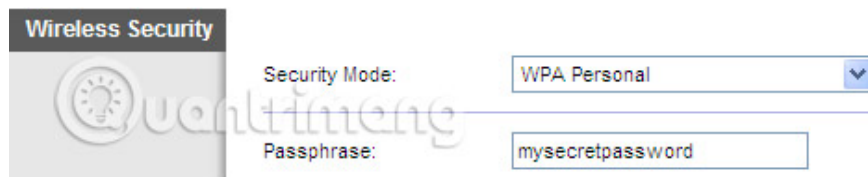
Click on the **Save Settings** button .

## WPA Personal

### Step 1:

In **Security Mode** , select **WPA Personal** and enter your **passphrase** in the **Passphrase** field .

**NOTE :** The passphrase must include at least 8 characters and is case sensitive.



The image shows a 'Wireless Security' configuration window. On the left is a logo with a lightbulb and the word 'Quantineng'. To the right, there are two fields: 'Security Mode:' with a dropdown menu set to 'WPA Personal', and 'Passphrase:' with a text box containing 'mysecretpassword'.

WPA Personal is also called **WPA Pre-Shared Key** or **PSK Personal** on some Linksys routers. Refer to the image below for an example.

## WPA Pre-Shared Key

Security Mode: WPA Pre-Shared Key ▼  
WPA Algorithms: TKIP ▼  
WPA Shared Key: mysecretkey  
Group Key Renewal: 3600 seconds

**NOTE:** WPA Pre-Shared Key in the image above is the network password you will use to connect wirelessly.

### PSK Personal

Security Mode: PSK Personal ▼  
Encryption: TKIP ▼  
Pre-shared Key: mysecretkey  
Key Renewal: 3600 seconds

**NOTE:** PSK Personal in the image above is the network password you will use to connect wirelessly.

### Step 2:

Click on the **Save Settings** button.

**NOTE:** If you have trouble selecting the type of security you want, you should reset your router. If the problem persists, you should upgrade the router's firmware to the latest version.

## Some things to note

For dual-band routers, setting up wireless security may depend on the type of dual-band router you are using. Dual band routers can be **simultaneous** or **selectable** ( **selectable** ). If the router is selectable, this means you can only use one wireless band at a time and set a unique wireless network password.

However, if your dual-band router is simultaneous, you can use both 2.4 and 5GHz wireless bands at the same time. This also means that you can set up 2 different wireless network names and 2 wireless passwords for each frequency (this is really recommended to avoid causing interference).

Once you have the appropriate wireless security settings for both bands, you are ready to connect computers and other wireless devices such as iPads, smartphones, console games, printers and access points. to the router.

Good luck!

See more:

1. Upgrade Wi-Fi security from WEP to WPA2
2. Create security key for Wifi network in Windows 7
3. How to hack WiFi passwords with holes on WPA / WPA2

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