

## 'Booking' for computers

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**The router automatically allocates a fixed IP address or the administrator wants to 'preset' the IP address for a particular computer.**



You want the router to allocate a fixed IP address automatically to computers on the network to increase the ability to control Internet access, such as setting which computers have Internet or Wi-Fi access, which computers no access . or want to 'preset' the fixed IP address automatically assigned to a particular computer. Reading and remembering your computer's MAC address is quite difficult, do you want to assign a computer MAC address with a fixed IP address? The article will show you how to fulfill the above requirements.

The following article uses the **Simultaneous Dual-Band Wireless-N Gigabit Router for Cisco Linksys WRT610N** . **The Cisco Linksys WRT610N** is an 802.11b / g / n wireless router, supporting both 2.4GHz and 5GHz simultaneously. It has 4 Gigabit speed LAN ports and 1 USB 2.0 port that allows connection to external storage devices such as USB hard drives / memory sticks .

DHCP Reservation					
Select Clients from DHCP Tables	Client Name	Interface	IP Address	MAC Address	Select
	Quantrimang	LAN	192.168.1.100	90:E6:BA:BA:7F:32	<input type="checkbox"/>
<b>Add Clients</b>					
Manually Add Client	Enter Client Name	Assign IP Address	To This MAC Address		
	<input type="text"/>	192.168.1.0	00:00:00:00:00:00	<b>Add</b>	
Clients Already Reserved	Client Name	Assign IP Address	To This MAC Address	MAC Address	
	Quantrimang	192.168.1.100	90:E6:BA:BA:7F:32		<b>Remove</b>
	Kiến thức tin học	192.168.1.115	E8:BA:5F:06:42:10		<b>Remove</b>
	<b>Save Settings</b> <b>Cancel Changes</b> <b>Refresh</b> <b>Close</b>				

First, log into the **Cisco Linksys WRT610N** configuration web interface. Go to **SetupBasic Setup** . By default DHCP Server is enabled and provides automatic IP address for 50 computers. If you want to increase or decrease the number of computers that receive IP addresses, edit the number in the **Start IP Address** box (indicating which IP address will be allocated starting from which number) and **Maximum Number of Users** (number of machines) Maximum calculation of receiving IP address). These two cells have a close relationship with each other. Suppose if you leave the **Start IP Address** unchanged at **192.168.1.100** , and enter the new number in the **Maximum Number of Users field of 250** , the Cisco Linksys WRT610N will show a message asking you to re-enter another number accordingly, because the DHCP Server **can allocate more than 253 IP addresses** , equivalent to up to **253** computers in the network.

After you have set up the DHCP Server parameters, the next step is to click the **DHCP Reservation** button. **DHCP Reservation** settings panel gives you 2 options: **Select Clients from DHCP Tables** and **Manually Add Client** . Select Clients from DHCP Tables allows you to select computers in the next DHCP table, including information: host name, communication port, IP address, MAC address. Each computer will have a MAC address and will have an IP address, respectively. Manually Add Client allows you to manually assign any IP address - located in the pending IP range of the DHCP Server and not 'touching' the IP you have assigned - with the MAC address you want.

The screenshot shows the Linksys WRT610N router's web interface. The top navigation bar includes 'Setup', 'Wireless', 'Security', 'Storage', 'Access Restrictions', 'Applications & Gaming', 'Administration', and 'Status'. The 'Setup' menu is expanded to show 'Basic Setup', 'DDNS', 'MAC Address Clone', and 'Advanced Routing'. The 'Advanced Routing' sub-menu is selected, leading to the 'DHCP Reservation' page. The page is divided into sections: 'Language' (English), 'Internet Setup' (Automatic Configuration - DHCP), 'Optional Settings' (Host Name, Domain Name: wrt610n.local, MTU: Auto, Size: 1500), 'Network Setup' (Router Address: IP 192.168.1.1, Subnet Mask 255.255.255.0), and 'DHCP Server Setting' (DHCP Server: Enabled, Start IP Address: 192.168.1.100, Maximum Number of Users: 50, IP Address Range: 192.168.1.100 to 149). A 'DHCP Reservation' button is highlighted with a red box.

To do this, select " *Select Clients from DHCP Tables* ", click on the box in the **Select** section corresponding to the computer you want to assign a fixed IP to, then click **Add Clients** to put this computer on the list "reserved" (Clients Already Reserved) below. Similar to ' **Manually Add Client** ', enter the computer name in the **Enter Client Name** box, the IP address you want in the **Assign IP Address** box, the MAC address of that computer in the **To this MAC Address box** and click **Add** to bring the computer This is on the "reservation" list below.

Finally and equally important, you must click **Save Settings** to save all settings. If you forget to click **Save Settings** , your effort has been 'abandoned'.

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