

# What is DHCP error? How to overcome it?

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DHCP error means the server on the network, which provides the IP (Internet Protocol) address to the device, cannot assign your device an IP address.

## Find out why and how to fix DHCP errors

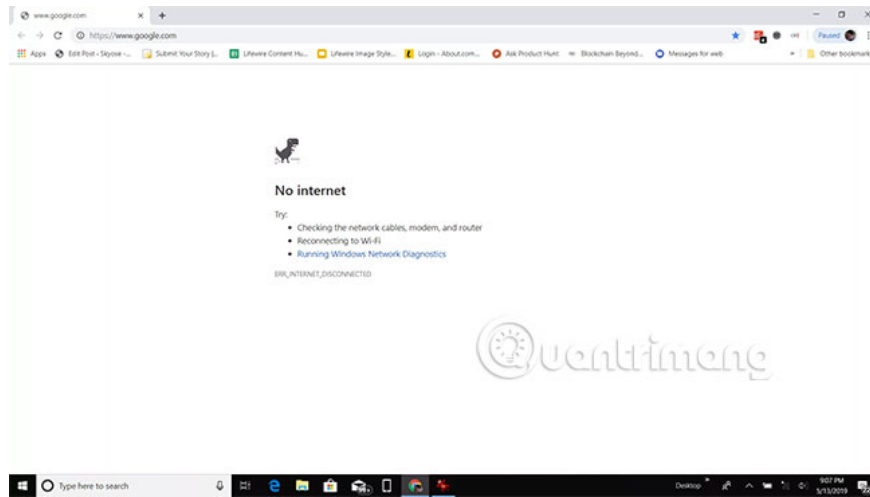
1. How does a DHCP error occur?
2. Troubleshoot problems to handle DHCP errors
3. Manually fix DHCP settings
4. Fix DHCP error with router settings

## How does a DHCP error occur?

Because DHCP settings can disrupt Internet connection, errors can occur in many forms. Finally, the main sign is that you will not be able to access the Internet.

A DHCP error occurs when your DHCP server or router cannot automatically adjust the IP address of the computer or device to join the network.

This often results in a network connection error when you try to access the Internet using a web browser.



What makes DHCP errors difficult is because this error is not always related to DHCP. However, you can confirm whether the DHCP error is the cause of your Internet connection problem in some way.

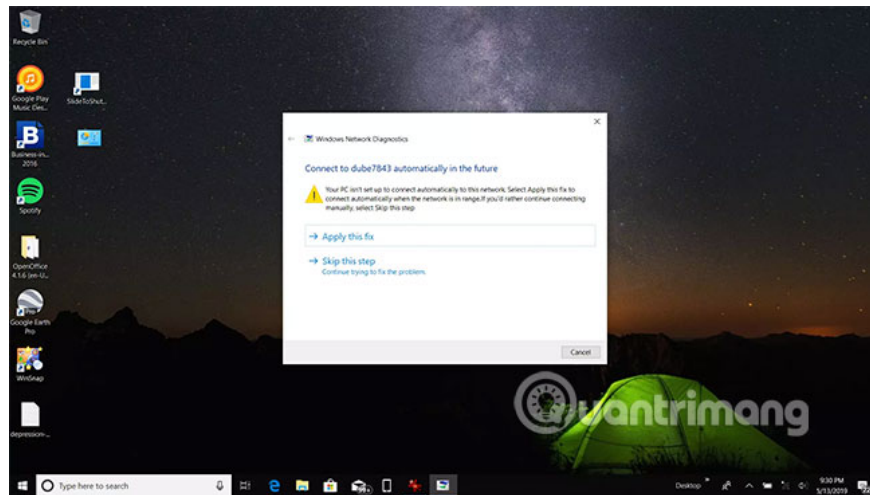
## Troubleshoot problems to handle DHCP errors

The easiest way to fix Internet connection problems is by having Windows automatically fix Internet settings for you. If your DHCP settings are incorrect, Windows will try to fix them.

1. To do this, simply right-click the network connection icon in the Windows taskbar and select **Troubleshoot problems**.



2. The network troubleshooter will determine any settings that may cause Internet connectivity problems. It will give you the option to apply the proposed fixes. If your DHCP settings cause errors, they will also be fixed. Select **Apply this fix** to apply any proposed changes.



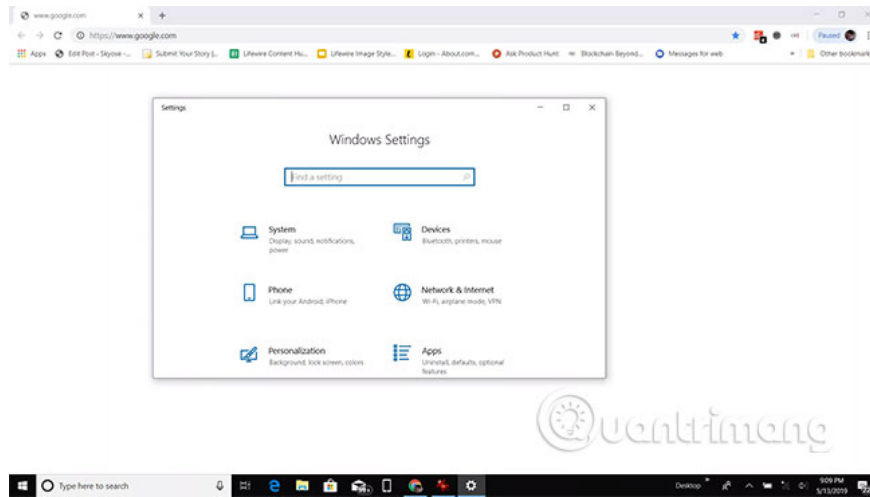
3. If the fixes automatically work, you will see your network connection working again. Open the web browser and try connecting to the Internet. If it still doesn't work, you'll need to manually edit your DHCP settings.



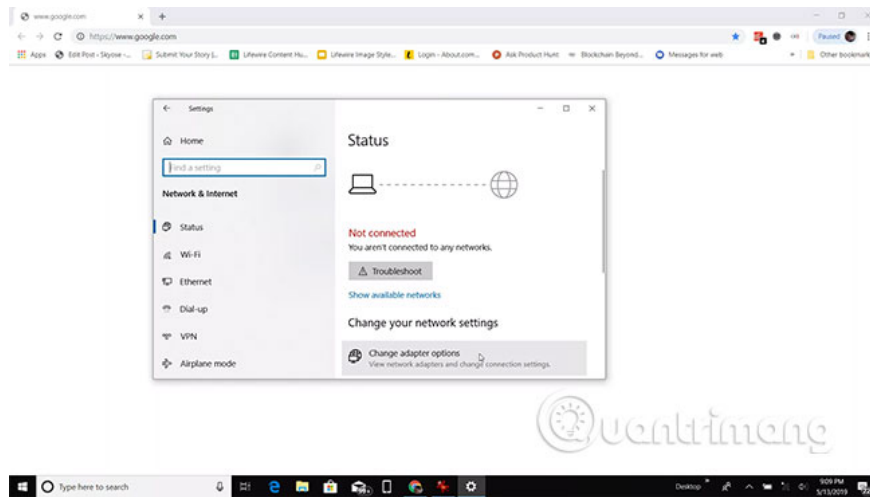
## Manually fix DHCP settings

If the troubleshooter doesn't automatically fix your DHCP installation, you can do this manually.

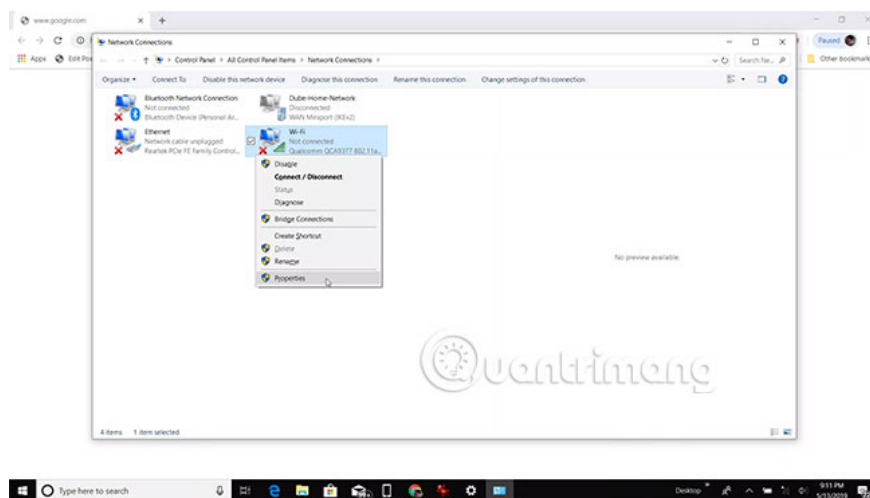
1. Select the **Start** menu and click the **Settings** gear icon. This will open the Windows installation window. Select **Network & Internet** from the **Windows Settings** window.



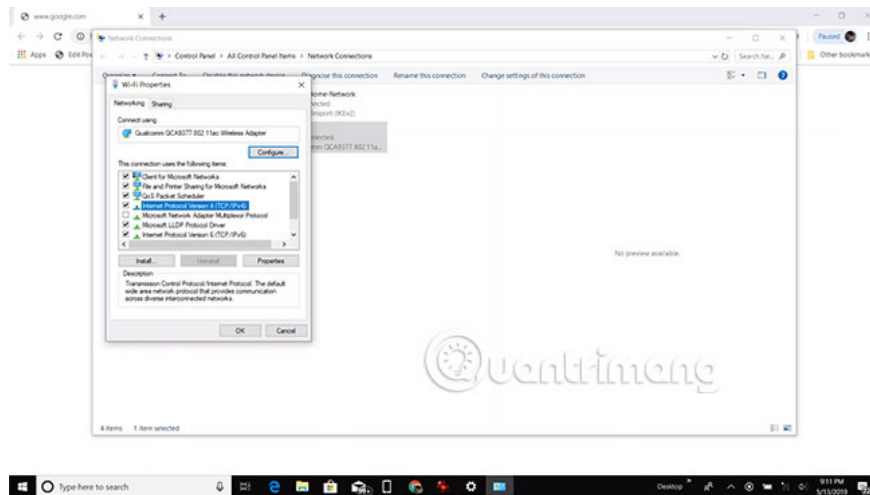
2. This will open the **Network Status** window. Scroll down and select **Change adapter options** .



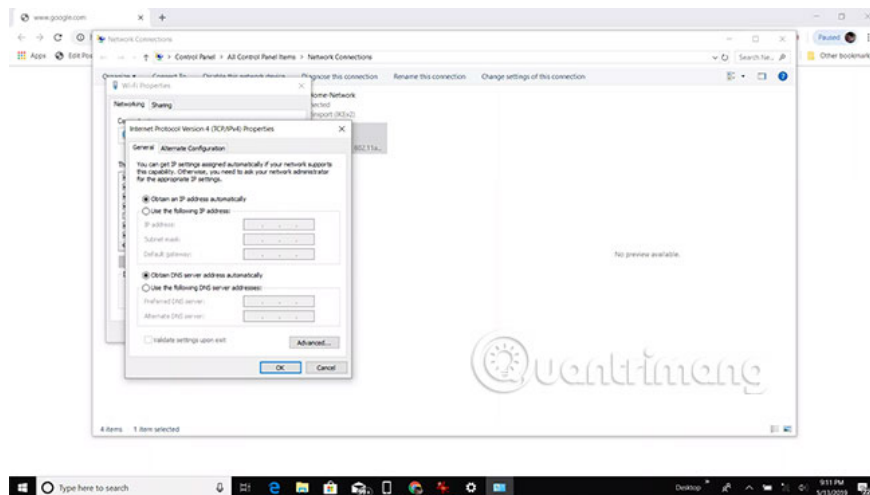
3. This step will display all network adapters configured on your computer. Right-click on the active adapter and select **Properties**.



4. In the **Wi-Fi Properties** window, select **Internet Protocol Version 4**, and then click **Properties**.



5. If the option **Obtain an IP address automatically** has not been selected, select it.



6. Select **OK**, then click **Close** to save the new settings. Restart the computer.

This setting allows the DHCP server or router on your network to assign the computer the next available IP address on the network.

If you notice that the **Obtain an IP address automatically** has been selected, the DHCP error may not be due to the computer's network settings, but caused by the router settings.

## Fix DHCP error with router settings

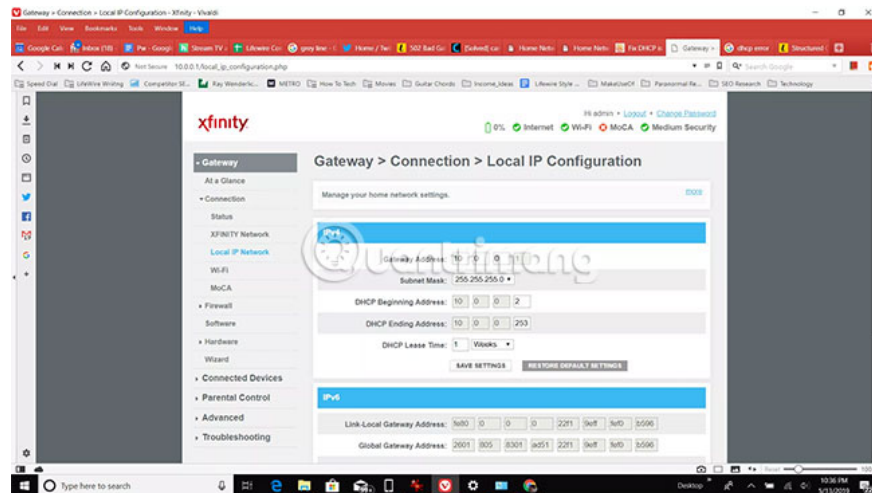
On a regular corporate network, the DNS server manages the IP addresses of devices on the network. All DHCP settings are managed by the IT department, so if you have trouble connecting to the network, you should contact the company help.

However, on the home network, DHCP settings in the router will manage the IP addresses of devices on the network. If you see a DHCP error, you should check the router settings.

To do this, you will need to access your home router as an admin.

**Note** : The windows system of most major routers is slightly different, but in general you can find the settings described below in menus with similar names.

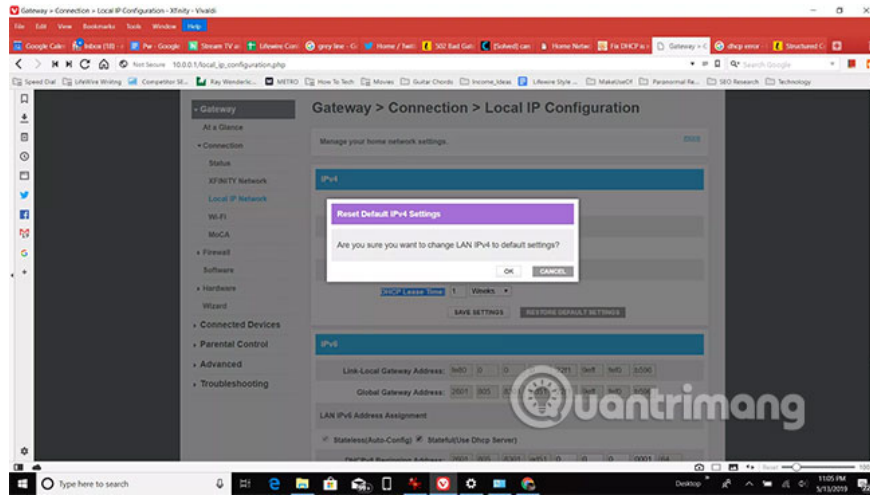
1. From the main screen of the router, find the **Network Settings** or **Local IP Network** window.



2. In the **Network Settings** window , you will notice some important settings.

1. **Gateway Address** : This is the IP address for the router.
2. **DHCP Beginning Address** : IP starts for the addresses of devices on your network.
3. **DHCP Ending Address** : IP ends for the addresses of devices on your network.
4. **DHCP Lease Time** : The length of time that the device stays the same before they are renewed and changed.

3. The address that starts and ends DHCP must match the router's IP address, except the last number. If these addresses do not match, the router's DHCP settings may have been corrupted or incorrect. Select the **Restore Default Settings** button if it is available. Select **OK** to confirm the change of settings.



4. Restart the router and any network device has a DHCP error. After restarting, check if your Internet connection is working.

DHCP errors are not always easy to fix, but by confirming the DHCP settings on both the router and the device on the network, troubleshooting is often simpler.

Hope you are succesful.

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